

Illumina Inc. GenomeStudio version 1.5.4

Normalization = none

Array Content = HumanRef-8_V3_0_R0_11282963_A.bgx.xml

Error Model = none

DateTime = 03/03/2010 15:55 (TC1, TC2, TS1, TS2) and 09/07/2010 14:09 (TC3, TC4, TC5, TC6, TS3, TS4,

Local Settings = en-GB

| TargetID | AVG_Signa | AVG_Signa | AVG_Signa | AVG_Signa | AVG_Signa | AVG_Signa | AVG_Signa | AVG_Signa |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 15E1.2 | 329.5 | 389.1 | 194.7 | 193 | 157.8 | 139.8 | 240.5 | 342 |
| 2'-PDE | 428.8 | 549.5 | 343.8 | 318.9 | 255.4 | 382.8 | 351.7 | 525.9 |
| 7A5 | 88.2 | 80.8 | 82.5 | 91.7 | 72.4 | 89.1 | 89.3 | 87.3 |
| A1BG | 108.4 | 117.5 | 113.7 | 104.4 | 106.2 | 116.4 | 104.2 | 105.2 |
| A2BP1 | 86.4 | 92 | 97.7 | 80.3 | 84.3 | 90 | 82.4 | 90.1 |
| A2BP1 | 101.2 | 102.6 | 103.1 | 83.8 | 83.4 | 94.1 | 96 | 97.8 |
| A2BP1 | 78.8 | 88.2 | 105.5 | 90.3 | 84.8 | 90.8 | 82.3 | 90.8 |
| A2BP1 | 101.5 | 132.3 | 104.1 | 96.1 | 80.8 | 84 | 114.2 | 110.7 |
| A2M | 80.3 | 84.7 | 86.3 | 84.5 | 81.8 | 83.6 | 77.6 | 92 |
| A2ML1 | 81 | 80.9 | 100.4 | 98.7 | 86.1 | 89.1 | 80.4 | 76.3 |
| A3GALT2 | 73 | 80.3 | 82.8 | 80.4 | 86.3 | 75.6 | 71.8 | 75.8 |
| A3GALT2 | 83 | 80.5 | 98.2 | 96.7 | 90.6 | 90.6 | 76.9 | 87 |
| A4GALT | 177.7 | 217.4 | 150.3 | 135.5 | 115.2 | 126.6 | 178.4 | 192.2 |
| A4GNT | 120.7 | 114.5 | 91.1 | 95.5 | 91.5 | 92.7 | 109 | 114.9 |
| AAA1 | 102.3 | 111.3 | 113 | 92.8 | 93.3 | 99.1 | 93.3 | 113.8 |
| AAA1 | 130.9 | 155.5 | 110.4 | 101.5 | 103.3 | 103.7 | 142.6 | 149.3 |
| AAA1 | 112.8 | 111.2 | 98.4 | 99.4 | 85.7 | 97.3 | 98.4 | 112.3 |
| AAA1 | 68.7 | 72.3 | 81.7 | 76.4 | 78 | 70.4 | 73.9 | 73.6 |
| AAA1 | 92.8 | 103.9 | 84.4 | 85.7 | 78.7 | 81.1 | 89.2 | 98.4 |
| AAAS | 165.1 | 212.7 | 134.9 | 125.1 | 95.3 | 117.9 | 150 | 220.1 |
| AACS | 208.5 | 268.6 | 210.5 | 217.4 | 228.6 | 264.8 | 196 | 195.7 |
| AADAC | 101.9 | 112.1 | 101.4 | 93.6 | 87.6 | 98.3 | 91.3 | 101.1 |
| AADACL1 | 277.9 | 333.5 | 132.1 | 167.6 | 129.2 | 194.6 | 273.7 | 389.1 |
| AADACL2 | 92.6 | 91 | 97.9 | 89.9 | 79.6 | 90.1 | 88 | 84.4 |
| AADAT | 144.5 | 157.6 | 103.9 | 92.2 | 80 | 89.1 | 140 | 129.7 |
| AADAT | 81.7 | 94.1 | 91.2 | 87.6 | 83.2 | 86.9 | 88.2 | 88.1 |
| AADAT | 73.2 | 82.1 | 90.3 | 79.7 | 88 | 83.4 | 93.2 | 92.1 |
| AAK1 | 83.3 | 82.7 | 98.1 | 93.9 | 91 | 92.6 | 78.3 | 79.7 |
| AAMP | 329.4 | 478.3 | 192.7 | 171.4 | 132 | 185 | 326.6 | 418.5 |
| AANAT | 78.7 | 87.7 | 88.9 | 83.7 | 74.2 | 71.1 | 82.2 | 86.2 |
| AARS | 5885.8 | 7945.2 | 4622.1 | 3583.6 | 3033.1 | 3985.3 | 5385.3 | 6295.9 |
| AARSD1 | 798.4 | 1088.8 | 546.3 | 563 | 527 | 838.8 | 721.4 | 856.8 |
| AARSL | 572.9 | 644.2 | 283.9 | 291.7 | 296.7 | 357.2 | 438.2 | 485.5 |
| AASDH | 469.9 | 591.6 | 272.1 | 277.1 | 227.3 | 394.8 | 424.8 | 563.9 |
| AASDHPPT | 1641.1 | 1879.5 | 552.4 | 658.1 | 443.9 | 795.4 | 1229.9 | 2143.3 |
| AASS | 106.2 | 127.9 | 114.7 | 119.7 | 96.5 | 109.4 | 105.1 | 116.6 |
| AATF | 1479.8 | 1954.2 | 1010.7 | 820.2 | 626.5 | 987.9 | 1271.5 | 1846.6 |
| AATK | 95.9 | 119.6 | 106.1 | 104.9 | 98.3 | 102.1 | 105.4 | 120.3 |
| AATK | 85.8 | 92.2 | 85.6 | 83.4 | 99.9 | 85 | 89.6 | 92.9 |
| ABAT | 99.7 | 116.5 | 99.2 | 91.6 | 85.4 | 93.3 | 104.6 | 116.8 |
| ABAT | 129.7 | 151.9 | 94.8 | 85.5 | 83.4 | 89.4 | 145 | 176 |
| ABAT | 88.5 | 97.2 | 96.5 | 85.1 | 89.6 | 89.8 | 91.2 | 107 |

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|--------|--------|--------|-------|-------|-------|--------|--------|--------|
| ABC1 | 247.7 | 329.9 | 165 | 181.8 | 150.7 | 162.6 | 203.3 | 231.5 |
| ABCA1 | 451.5 | 729.9 | 280.5 | 724.5 | 638 | 1121.6 | 421.5 | 559.6 |
| ABCA10 | 107.8 | 125 | 92.5 | 95.6 | 102.5 | 101.9 | 96 | 111.5 |
| ABCA11 | 205.6 | 228.5 | 141.1 | 136 | 111.1 | 139.6 | 141.4 | 207.2 |
| ABCA12 | 100.4 | 119.8 | 103 | 77.9 | 91.8 | 95.1 | 100.2 | 110.5 |
| ABCA12 | 161.8 | 177 | 99.1 | 85.9 | 89.4 | 85.5 | 150.8 | 180.4 |
| ABCA13 | 81.4 | 86.9 | 93.7 | 93.2 | 87.3 | 82.6 | 81 | 82.6 |
| ABCA2 | 112 | 109.6 | 109.6 | 103.5 | 82.5 | 91.2 | 106.1 | 99.5 |
| ABCA2 | 170.4 | 185.5 | 157.5 | 149.8 | 130 | 190.6 | 131.7 | 196.4 |
| ABCA3 | 152.1 | 169 | 113.1 | 92.7 | 97.9 | 88.8 | 121.6 | 123.4 |
| ABCA4 | 106 | 129.6 | 137.7 | 140.3 | 139 | 137.4 | 104.4 | 130 |
| ABCA5 | 106.5 | 120.6 | 116.1 | 106.8 | 114.8 | 104.1 | 105.2 | 129.1 |
| ABCA5 | 87.9 | 97.4 | 84.2 | 89.2 | 87.1 | 88.3 | 84.8 | 85.1 |
| ABCA5 | 107.7 | 120.4 | 84 | 86.6 | 85.5 | 96.3 | 95.8 | 120.6 |
| ABCA6 | 92.2 | 85.8 | 87.3 | 86.8 | 87.4 | 91.7 | 87.8 | 87.3 |
| ABCA6 | 98.6 | 107.9 | 115.8 | 112.5 | 115.3 | 110.4 | 89.7 | 95 |
| ABCA7 | 82.6 | 86.1 | 79 | 79.7 | 86.2 | 76.9 | 82.9 | 85.1 |
| ABCA7 | 204.6 | 230.3 | 226.9 | 203.3 | 202.7 | 312 | 137.3 | 161.9 |
| ABCA7 | 67.3 | 83 | 93 | 91.6 | 87.5 | 95.9 | 78.8 | 75.5 |
| ABCA8 | 85.5 | 87 | 89.1 | 80.5 | 84.5 | 83.8 | 83.6 | 85.7 |
| ABCA9 | 123.6 | 167.9 | 94.9 | 90.9 | 84.7 | 86.5 | 110.2 | 127.8 |
| ABCA9 | 116.1 | 125.1 | 98.2 | 84.4 | 93.6 | 94.4 | 114.1 | 123.4 |
| ABCB1 | 79.3 | 88.7 | 77.4 | 81.4 | 75.9 | 83.2 | 84.3 | 87.1 |
| ABCB10 | 1638.5 | 1621.5 | 831.3 | 978.1 | 787.1 | 1134.5 | 1478.1 | 2201.4 |
| ABCB11 | 84.5 | 94.2 | 101.7 | 97.1 | 95.9 | 102 | 92 | 82.2 |
| ABCB4 | 136.5 | 174.4 | 122.1 | 96.6 | 91.2 | 114.3 | 138.7 | 186.5 |
| ABCB5 | 89.5 | 96.3 | 82.9 | 74 | 78.6 | 78.1 | 83.1 | 98.4 |
| ABCB6 | 147.5 | 169.1 | 121.3 | 121.3 | 121 | 129.9 | 149.9 | 228.1 |
| ABCB7 | 967.8 | 1155.6 | 296.4 | 340.3 | 250.8 | 446.3 | 804.5 | 1444.8 |
| ABCB8 | 117.7 | 148.4 | 94.2 | 90.2 | 84.5 | 98.7 | 141.1 | 140.4 |
| ABCB9 | 84.7 | 86.9 | 107.6 | 101.6 | 98.5 | 113.7 | 81.6 | 84.3 |
| ABCB9 | 110 | 123.6 | 141.1 | 137.4 | 134.6 | 143.8 | 103.8 | 163.2 |
| ABCB9 | 224.3 | 276.5 | 212.8 | 202.5 | 176.3 | 181.1 | 178.7 | 196.3 |
| ABCC1 | 96.9 | 103.3 | 105 | 97 | 92.6 | 94.8 | 91.4 | 92.6 |
| ABCC1 | 115.9 | 156.3 | 113 | 97.8 | 97 | 96.1 | 118.3 | 129.4 |
| ABCC10 | 139.6 | 156.1 | 112.9 | 103.4 | 105.1 | 109.9 | 113.8 | 152.7 |
| ABCC11 | 94.3 | 95 | 79.2 | 79.8 | 73.9 | 73.6 | 95 | 105.5 |
| ABCC11 | 135.8 | 155.9 | 107.4 | 99.4 | 89.9 | 104.2 | 131.7 | 127.5 |
| ABCC11 | 85.1 | 93.9 | 99.2 | 96.1 | 97.1 | 99.6 | 85.2 | 89 |
| ABCC12 | 123.2 | 141.1 | 105.8 | 103.2 | 95.4 | 113.8 | 125.7 | 135 |
| ABCC13 | 166.7 | 191.3 | 129.7 | 112.3 | 103.3 | 117.9 | 145.1 | 155.2 |
| ABCC13 | 117.7 | 130.9 | 107.5 | 110.7 | 100.5 | 99.2 | 106.5 | 125.9 |
| ABCC2 | 112.8 | 107.5 | 101.2 | 99.4 | 97.3 | 99.8 | 107.2 | 92.6 |
| ABCC3 | 89.6 | 93.2 | 96.6 | 141.6 | 131.2 | 159.8 | 92.9 | 107.5 |
| ABCC4 | 577 | 730.8 | 182.5 | 225.5 | 165.7 | 274.9 | 487 | 618.2 |
| ABCC5 | 92.3 | 101.7 | 90.3 | 81.8 | 85.9 | 78.4 | 86.5 | 97.5 |
| ABCC5 | 178.8 | 237 | 166.4 | 190.5 | 201.4 | 255.5 | 223.4 | 215.6 |
| ABCC5 | 159.3 | 164.4 | 140.3 | 137.3 | 142.3 | 166.1 | 118 | 159 |
| ABCC6 | 98.9 | 113.2 | 107 | 95.1 | 91.7 | 92.8 | 105.5 | 112.8 |
| ABCC6 | 144.1 | 193.1 | 108 | 92 | 87.4 | 101.4 | 168.3 | 179.5 |

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|---------|--------|--------|--------|--------|-------|--------|--------|--------|
| ABCC6 | 75.7 | 82.3 | 87.2 | 81 | 69.9 | 77.5 | 83.4 | 98.5 |
| ABCC6 | 100.7 | 124.5 | 94.9 | 98 | 87.9 | 87.5 | 96.2 | 112 |
| ABCC6 | 136 | 173.7 | 146.9 | 123.3 | 118.9 | 127 | 131 | 131.9 |
| ABCC8 | 97.6 | 100.8 | 99 | 93 | 83.7 | 86.9 | 92.6 | 90 |
| ABCC9 | 97.4 | 95.5 | 82.9 | 88.7 | 77.3 | 87 | 86.9 | 90.7 |
| ABCC9 | 135.5 | 131.3 | 96.8 | 99.3 | 83.9 | 84.1 | 113.4 | 136.4 |
| ABCD1 | 151 | 170.6 | 273.4 | 186.8 | 193.5 | 279.1 | 154.2 | 290.7 |
| ABCD2 | 74.9 | 82.2 | 89 | 82 | 84.8 | 85.3 | 79.2 | 93.9 |
| ABCD4 | 82.5 | 99.8 | 91.2 | 84.1 | 87.5 | 88.9 | 81.9 | 89.1 |
| ABCD4 | 97.1 | 96.5 | 111.8 | 105.1 | 110.6 | 107.2 | 91.6 | 106.2 |
| ABCE1 | 2579.6 | 3057.9 | 1258.4 | 871.3 | 544 | 1544.5 | 1725.9 | 3630.3 |
| ABCE1 | 2122.2 | 2881.4 | 1184.8 | 813.5 | 531.9 | 1401.5 | 1607.1 | 3267.8 |
| ABCF1 | 533.2 | 711.1 | 366.7 | 377.9 | 317.4 | 535.1 | 405.7 | 745 |
| ABCF1 | 1380.1 | 2114.5 | 1005.1 | 1000.1 | 870 | 1167.3 | 1035.8 | 1191.4 |
| ABCF2 | 114.8 | 137.4 | 109.4 | 91.2 | 95.9 | 105.1 | 112.8 | 130.6 |
| ABCF2 | 965.2 | 1265.6 | 526.2 | 372.6 | 322.3 | 433 | 732.8 | 1122.9 |
| ABCF2 | 216.8 | 247.2 | 192.1 | 173.2 | 141.3 | 224.5 | 180.6 | 328.4 |
| ABCF3 | 150.7 | 179.1 | 128.2 | 146.8 | 118.7 | 185.7 | 147.7 | 167.6 |
| ABCG1 | 149.4 | 171.9 | 124.4 | 109 | 105.4 | 121.2 | 136 | 142.1 |
| ABCG1 | 96.6 | 107.6 | 116.2 | 94.4 | 101 | 97.7 | 96 | 100.6 |
| ABCG1 | 102.6 | 121.3 | 91.4 | 87.6 | 82 | 86.1 | 106.3 | 110.4 |
| ABCG1 | 81.2 | 98.2 | 82.9 | 84.2 | 87.5 | 91.8 | 90.1 | 96.5 |
| ABCG1 | 111.3 | 147.4 | 96.5 | 97.4 | 88.5 | 84.7 | 131.3 | 150.8 |
| ABCG1 | 119.9 | 122.8 | 92.4 | 82.8 | 76.6 | 91.3 | 102.4 | 137.8 |
| ABCG2 | 78.8 | 89.5 | 86.6 | 73.7 | 77.6 | 75.9 | 72.6 | 80.6 |
| ABCG4 | 119.5 | 135.4 | 103.4 | 99.5 | 95.9 | 92.6 | 121.3 | 117.8 |
| ABCG5 | 132.1 | 157.8 | 128.9 | 114.3 | 97.3 | 103.7 | 131.2 | 152.5 |
| ABCG8 | 86.2 | 104.3 | 99.1 | 86.1 | 88.5 | 90.9 | 90.7 | 89.6 |
| ABHD1 | 115.1 | 124 | 108.8 | 97.2 | 89.1 | 91.7 | 104 | 123 |
| ABHD10 | 513.9 | 648.9 | 328.9 | 299.9 | 232.1 | 345.6 | 347.8 | 532.3 |
| ABHD11 | 297.9 | 376.3 | 178.9 | 158.4 | 132.2 | 144.6 | 256.1 | 286.9 |
| ABHD11 | 107.6 | 120.2 | 96.6 | 79.4 | 77.5 | 84.1 | 87.4 | 124.4 |
| ABHD11 | 306.8 | 390.1 | 223 | 197.8 | 167.5 | 155.7 | 282.2 | 332.2 |
| ABHD12 | 516.4 | 670.9 | 231.8 | 222.5 | 174.1 | 234.4 | 441.7 | 730.8 |
| ABHD12 | 435.2 | 530.2 | 376.8 | 369.3 | 341.8 | 508.7 | 349.8 | 486.7 |
| ABHD13 | 91.8 | 101 | 95.9 | 101.4 | 85.7 | 94.4 | 95 | 113.5 |
| ABHD14A | 908.6 | 1154 | 560.1 | 328.5 | 321.1 | 364.1 | 871.5 | 1141 |
| ABHD14B | 155.9 | 187.7 | 214.4 | 280.3 | 244.4 | 308.2 | 135.4 | 205.4 |
| ABHD2 | 175.2 | 227.6 | 123.4 | 122.5 | 104.9 | 125.7 | 168.8 | 217.2 |
| ABHD2 | 101.9 | 111.2 | 100 | 95.9 | 81.9 | 105.8 | 101.4 | 119 |
| ABHD2 | 164.6 | 234.9 | 114.2 | 96.2 | 84.3 | 84.4 | 143.5 | 198.4 |
| ABHD3 | 943.6 | 1130.1 | 484.3 | 529 | 445.7 | 900.9 | 843.8 | 1675.9 |
| ABHD4 | 110.1 | 111.6 | 103.4 | 97.9 | 83.7 | 93.9 | 117.7 | 147.9 |
| ABHD5 | 300.9 | 348.6 | 156.5 | 131.6 | 112.7 | 156.6 | 286.1 | 497.6 |
| ABHD6 | 217.7 | 287.7 | 155.5 | 140.2 | 133.6 | 150.2 | 211 | 302.3 |
| ABHD7 | 178.8 | 219.4 | 117.9 | 113.2 | 100 | 95.8 | 156.3 | 207 |
| ABHD8 | 816.9 | 976.8 | 442 | 351.3 | 283.6 | 343.1 | 779.9 | 835 |
| ABHD9 | 128.8 | 163.3 | 98 | 93.1 | 85.6 | 90.2 | 142.9 | 143.9 |
| ABI1 | 91.9 | 114.6 | 95.7 | 90.3 | 83.8 | 81.5 | 90 | 101.7 |
| ABI1 | 318.1 | 367.9 | 169.2 | 133 | 139.3 | 183.4 | 284.7 | 500.3 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ABI2 | 226.7 | 289.5 | 135.2 | 114.6 | 94.2 | 105.1 | 189.4 | 233.8 |
| ABI2 | 638.5 | 814.4 | 413.7 | 293.2 | 233.6 | 346.8 | 566.2 | 911 |
| ABI2 | 228.1 | 302.6 | 117.1 | 101.5 | 100.8 | 100.9 | 193.9 | 250.5 |
| ABI3 | 115.7 | 137.1 | 111.1 | 92.1 | 87.8 | 104 | 121 | 127.9 |
| ABI3BP | 99.9 | 141.2 | 91.8 | 81.1 | 78.8 | 88.4 | 101.6 | 121.3 |
| ABL1 | 559.8 | 757.3 | 600.4 | 474.3 | 391.6 | 405 | 499.3 | 593.9 |
| ABL1 | 116.5 | 125.3 | 130.2 | 143.3 | 127.6 | 138 | 116.8 | 130.3 |
| ABL1 | 120 | 137.5 | 86.6 | 86.5 | 83.1 | 89.6 | 118.6 | 125.8 |
| ABL2 | 101.3 | 118.6 | 107.6 | 86.2 | 82.6 | 111.4 | 112.1 | 118.5 |
| ABL2 | 82.3 | 82.6 | 87.4 | 95.7 | 87.3 | 87.5 | 85.2 | 88.4 |
| ABL2 | 123.7 | 134.8 | 101.5 | 94.2 | 101.7 | 92.4 | 117.9 | 120.2 |
| ABLIM1 | 100.2 | 108.9 | 101.3 | 95.5 | 94.6 | 102.3 | 98.4 | 111.9 |
| ABLIM1 | 90.2 | 105.3 | 92.3 | 82.6 | 87.8 | 83.7 | 88.8 | 93.5 |
| ABLIM1 | 87.6 | 105.5 | 94.6 | 87.5 | 90.4 | 81.8 | 94.4 | 103.9 |
| ABLIM1 | 90.3 | 87.7 | 92.3 | 86.8 | 78.2 | 83 | 89.8 | 100.3 |
| ABLIM2 | 106.7 | 152.4 | 100.5 | 93.8 | 94.9 | 104.1 | 106.6 | 127.7 |
| ABLIM3 | 93.5 | 96.1 | 113.9 | 103.2 | 85.1 | 104.8 | 92.7 | 100.3 |
| ABO | 88.6 | 103.2 | 99.4 | 94.9 | 86.3 | 87.2 | 99.2 | 107.6 |
| ABP1 | 1187.1 | 1551.5 | 720.6 | 2788.3 | 2621 | 2074.2 | 1039.4 | 776.1 |
| ABR | 1235.5 | 1564.2 | 1189.8 | 1471.7 | 1114.3 | 1615.6 | 1076.1 | 1030 |
| ABR | 131.6 | 143.3 | 111.7 | 100.8 | 96.8 | 87.6 | 116.5 | 128.2 |
| ABR | 107.7 | 114.8 | 102.6 | 95.9 | 86.4 | 79.6 | 97.3 | 95.4 |
| ABRA | 97.5 | 102.7 | 99.4 | 82.9 | 86 | 95 | 96.3 | 99 |
| ABT1 | 127.2 | 188.4 | 104.5 | 120.3 | 99.7 | 110.8 | 125.6 | 186.9 |
| ABTB1 | 231.8 | 281.6 | 154.5 | 188.8 | 211.7 | 198 | 253 | 277.7 |
| ABTB1 | 96.7 | 133.7 | 135.2 | 135.7 | 168.5 | 168.9 | 127.5 | 183.2 |
| ABTB2 | 105.8 | 130.2 | 114.6 | 130.4 | 117.1 | 172 | 125.1 | 194.9 |
| ACAA1 | 748.8 | 1016.6 | 460.7 | 585.4 | 504.2 | 784.3 | 697.7 | 930.2 |
| ACAA2 | 620.8 | 759.5 | 196.8 | 175.9 | 141.4 | 228.6 | 507.3 | 779.8 |
| ACACA | 1111.1 | 1560.8 | 820.5 | 1384.2 | 1224.3 | 1736.6 | 1112.1 | 1326.3 |
| ACACA | 778.3 | 1204.2 | 518.2 | 734.2 | 722.2 | 953.1 | 795.9 | 906.6 |
| ACACA | 90.2 | 96 | 98.4 | 94 | 89.1 | 91.1 | 89.3 | 99.6 |
| ACACB | 273.2 | 318.1 | 240.1 | 426.2 | 378.2 | 454.4 | 211.4 | 234.2 |
| ACAD10 | 245.3 | 262.1 | 166.7 | 238 | 189 | 285.6 | 169.1 | 248.8 |
| ACAD11 | 338.7 | 351.8 | 191.5 | 239.2 | 234.7 | 285.7 | 227.4 | 318.5 |
| ACAD8 | 675.1 | 902.9 | 615.9 | 279.3 | 235.2 | 379.4 | 491.4 | 706.6 |
| ACAD9 | 1174.5 | 1492.7 | 778.5 | 930.2 | 799.7 | 1028.6 | 972.9 | 980.1 |
| ACADL | 93.1 | 99.4 | 93.3 | 87.4 | 77.6 | 80.9 | 89.2 | 88.6 |
| ACADM | 3971.4 | 4368.9 | 1926.9 | 2205.7 | 1815.4 | 2662.3 | 2833.7 | 4107.6 |
| ACADS | 233.2 | 300.6 | 173 | 140.7 | 123.4 | 159.2 | 170.7 | 213.8 |
| ACADSB | 120.7 | 137.5 | 96.8 | 99.2 | 99.4 | 109.9 | 116.6 | 124.7 |
| ACADVL | 268.2 | 338.7 | 161.2 | 177.1 | 152.3 | 115.5 | 224.3 | 269.9 |
| ACADVL | 2845.6 | 3233.3 | 2335.6 | 1903.6 | 1716.9 | 2552.3 | 2484.8 | 4020.9 |
| ACADVL | 823.1 | 911 | 696.3 | 625.9 | 619.3 | 950.7 | 682.8 | 930 |
| ACAT1 | 5494.5 | 7064.9 | 3074.4 | 2703.5 | 2102.6 | 3637.4 | 4292.1 | 5637.8 |
| ACAT2 | 155.1 | 182.9 | 115.3 | 111.7 | 111.3 | 119.7 | 136.6 | 212.7 |
| ACBD3 | 1350.4 | 1668.3 | 672.6 | 844.9 | 661.5 | 1344.7 | 1376.5 | 2512.1 |
| ACBD4 | 128.3 | 144 | 94.6 | 95.6 | 95.6 | 104.8 | 116.9 | 145.9 |
| ACBD5 | 124 | 149.4 | 87.8 | 88.5 | 80 | 95.6 | 115.1 | 171.7 |
| ACBD5 | 83.8 | 92 | 93 | 89 | 84.2 | 84.6 | 79.4 | 87.1 |

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|--------|--------|--------|--------|--------|-------|--------|--------|--------|
| ACBD5 | 95.5 | 101.9 | 93.1 | 82 | 97.9 | 92.4 | 87.4 | 103.3 |
| ACBD6 | 610.2 | 796.6 | 439 | 293.7 | 282.4 | 346.5 | 622.1 | 821.5 |
| ACBD7 | 100.3 | 115.9 | 96.1 | 85.6 | 90.5 | 90.2 | 107.7 | 106.3 |
| ACBD7 | 79.8 | 98 | 91 | 87.6 | 84.3 | 86.8 | 87.7 | 95.6 |
| ACCN1 | 85.9 | 79.5 | 92.8 | 84.7 | 79.6 | 87.5 | 76.3 | 81.5 |
| ACCN2 | 330.9 | 337 | 153.4 | 131.4 | 120.7 | 155.7 | 200.5 | 192.5 |
| ACCN2 | 92.5 | 93.4 | 100.6 | 92.5 | 82.4 | 94.7 | 82.2 | 101.3 |
| ACCN3 | 235.3 | 228.6 | 136.6 | 112 | 112.9 | 119.5 | 188.7 | 242 |
| ACCN3 | 102.9 | 114.2 | 111 | 91.5 | 91.4 | 102.5 | 95.9 | 110.6 |
| ACCN4 | 105.5 | 123 | 108.3 | 100.4 | 95.6 | 101.8 | 107.8 | 128 |
| ACCN4 | 78.4 | 97.8 | 100.2 | 83.5 | 87.5 | 86.2 | 100.6 | 100 |
| ACCN4 | 89.9 | 104.2 | 97.9 | 87.3 | 85.6 | 81.8 | 87.3 | 98.5 |
| ACCN5 | 92.2 | 103.9 | 102.8 | 78.7 | 83 | 84.9 | 96.2 | 109.3 |
| ACD | 555.8 | 652.9 | 535.7 | 277.4 | 213.1 | 264.7 | 511.1 | 1007.1 |
| ACE | 105.3 | 119.6 | 102.5 | 95.7 | 87 | 90.2 | 103.7 | 110.3 |
| ACE | 94.6 | 95.2 | 82.2 | 78.7 | 76.4 | 91.7 | 92.4 | 93.7 |
| ACE | 103.7 | 120.2 | 99.3 | 83.4 | 86.3 | 79.6 | 115.5 | 116.9 |
| ACE2 | 91.5 | 113 | 92.3 | 89 | 86.4 | 85.8 | 101.5 | 112.2 |
| ACF | 94.9 | 94.9 | 96.8 | 84 | 82 | 100.5 | 84.5 | 101.2 |
| ACF | 92.5 | 94.7 | 98.1 | 93.6 | 85.1 | 87.5 | 82.9 | 94.4 |
| ACF | 90.5 | 98.1 | 109.9 | 93.9 | 98 | 95.2 | 86.2 | 93.5 |
| ACHE | 80.6 | 89.9 | 83 | 76.4 | 79.1 | 89.1 | 84.1 | 89.5 |
| ACHE | 86 | 105.8 | 96.8 | 96.4 | 82.1 | 95.3 | 95 | 91.5 |
| ACIN1 | 646 | 890 | 702.1 | 556 | 530.6 | 1065.2 | 544.5 | 914.1 |
| ACLY | 3345.2 | 4455.8 | 3165.2 | 4101.9 | 3216 | 5100.7 | 3120.8 | 3570.7 |
| ACMSD | 179.3 | 174.7 | 140.6 | 120.9 | 129.5 | 135.8 | 165.1 | 174.6 |
| ACN9 | 1331.5 | 1373.2 | 665.5 | 627.9 | 403.6 | 696.7 | 1033.8 | 1717.6 |
| ACO1 | 1316.6 | 1725.8 | 1009 | 1095.5 | 843 | 1283.8 | 1166.4 | 1676.8 |
| ACO2 | 592.8 | 704.4 | 274.5 | 209.8 | 184.9 | 277.9 | 489 | 727 |
| ACOT1 | 118.9 | 158.9 | 96.7 | 77.8 | 89.8 | 86.8 | 115.9 | 130.1 |
| ACOT1 | 426.6 | 638.1 | 186.7 | 123.4 | 129.1 | 160.1 | 339.1 | 364 |
| ACOT11 | 555 | 709.7 | 398.3 | 373 | 280.5 | 413.8 | 396.6 | 420.4 |
| ACOT11 | 91.7 | 114.8 | 117.8 | 104 | 112.7 | 105.7 | 90.3 | 94.1 |
| ACOT12 | 102.3 | 120.3 | 100.3 | 104.5 | 96.7 | 95.9 | 109.8 | 119.9 |
| ACOT2 | 93.2 | 99.5 | 97.6 | 97.4 | 87.1 | 91.4 | 90.4 | 97.8 |
| ACOT4 | 894.8 | 1092.5 | 604.2 | 253.5 | 213 | 303.8 | 759.2 | 1208.3 |
| ACOT6 | 78.7 | 88.8 | 85.9 | 88.7 | 80.3 | 83.9 | 79.8 | 83.6 |
| ACOT7 | 93.5 | 105 | 84.6 | 86.1 | 81.2 | 93.5 | 95 | 114.8 |
| ACOT7 | 83 | 95.4 | 85.6 | 81.4 | 87.5 | 86.1 | 94.9 | 92.9 |
| ACOT7 | 3113.8 | 4043.5 | 1424.3 | 1076 | 888.6 | 1022.7 | 2906 | 3193.8 |
| ACOT7 | 99.2 | 111 | 102.7 | 87.6 | 82.4 | 85.6 | 101 | 114.8 |
| ACOT7 | 883.3 | 1330.6 | 798.3 | 402.9 | 327.3 | 423.1 | 847.1 | 1171.1 |
| ACOT7 | 105.5 | 108.1 | 92.6 | 85.2 | 71.5 | 81 | 99.2 | 111.6 |
| ACOT8 | 253.1 | 310.9 | 171.5 | 149 | 125.8 | 141.6 | 194.4 | 231.1 |
| ACOT9 | 235.3 | 308.7 | 134.6 | 133.1 | 127 | 150.2 | 239 | 287.8 |
| ACOT9 | 799.6 | 1057.7 | 353.1 | 328.7 | 269 | 485.9 | 686.5 | 1010.9 |
| ACOX1 | 321.9 | 436 | 203.5 | 171.1 | 148.4 | 211.2 | 290.1 | 460.1 |
| ACOX1 | 106.8 | 120.3 | 83.6 | 95 | 92.2 | 95.8 | 115.6 | 118.4 |
| ACOX1 | 103.4 | 117.5 | 100.5 | 100 | 87.5 | 81.2 | 87.2 | 97.8 |
| ACOX2 | 353.8 | 478 | 247.4 | 262.7 | 156 | 258.9 | 352.1 | 461.4 |

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|--------|---------|---------|--------|---------|---------|---------|---------|---------|
| ACOX3 | 645.8 | 841.1 | 463.4 | 361.9 | 285.6 | 396.8 | 526.1 | 733 |
| ACOXL | 81.4 | 94.2 | 96.4 | 92.8 | 76.9 | 77.4 | 86 | 90.7 |
| ACP1 | 1983.7 | 2736.4 | 1203 | 1081.6 | 867.3 | 1422.2 | 1895.8 | 2849.6 |
| ACP1 | 5925.1 | 7747 | 3478.6 | 2491.1 | 1818.2 | 2609.7 | 5354.4 | 7777.7 |
| ACP2 | 256.3 | 278.9 | 165.6 | 128.4 | 132.3 | 150.5 | 251.2 | 359.2 |
| ACP5 | 98.4 | 107 | 92.4 | 85.4 | 91.9 | 83.1 | 84 | 100.5 |
| ACP6 | 221.8 | 289.8 | 173.2 | 169.8 | 125.3 | 171.5 | 192.3 | 191.8 |
| ACPL2 | 124.4 | 147.9 | 129.2 | 98.9 | 98.7 | 96.2 | 113.7 | 136.8 |
| ACPP | 244.4 | 278.2 | 188.2 | 733.6 | 284.3 | 963 | 220.6 | 366 |
| ACPT | 171.6 | 222.7 | 200.9 | 183.8 | 190.3 | 155.3 | 150.7 | 162.6 |
| ACPT | 86 | 82.8 | 87.6 | 89 | 79.3 | 89.5 | 89.8 | 91.9 |
| ACR | 132.1 | 158.5 | 102.2 | 94.4 | 88.7 | 98.5 | 130.4 | 140.4 |
| ACRBP | 106.9 | 136.1 | 122.8 | 112.3 | 100.5 | 118.8 | 103.8 | 124.8 |
| ACRC | 242 | 345.7 | 131.1 | 125.5 | 113.6 | 133.4 | 242.3 | 315.3 |
| ACRV1 | 127 | 149.6 | 112.3 | 105.8 | 98.8 | 107.9 | 120.9 | 149.5 |
| ACRV1 | 118.6 | 130.6 | 102.5 | 91 | 83.7 | 95.7 | 111.8 | 117.6 |
| ACSBG1 | 168.2 | 186.9 | 107.6 | 88.5 | 85.9 | 93.1 | 160 | 190.9 |
| ACSBG2 | 136.3 | 155.9 | 104.7 | 98.9 | 94.9 | 99.1 | 125.8 | 129 |
| ACSL1 | 536.7 | 636.2 | 175.8 | 137.7 | 115.9 | 153.7 | 400.5 | 662.3 |
| ACSL3 | 2506.4 | 3445.8 | 1501.4 | 1719.9 | 1640.1 | 2448.6 | 2262.3 | 3171.1 |
| ACSL3 | 267.4 | 348.6 | 143.5 | 153.7 | 150.4 | 120.6 | 203.6 | 233.7 |
| ACSL3 | 432.8 | 558.7 | 308.6 | 342.4 | 313.6 | 445.4 | 373.6 | 438.1 |
| ACSL4 | 151.8 | 182 | 117.3 | 105.5 | 94.7 | 98.6 | 124.1 | 133.8 |
| ACSL4 | 669.6 | 813.5 | 285 | 253.7 | 164.8 | 267.7 | 637.3 | 839.8 |
| ACSL4 | 914.4 | 1131.9 | 651.5 | 1121.9 | 879.3 | 1444.6 | 911.9 | 1545.2 |
| ACSL5 | 260.2 | 389.3 | 182.2 | 160.7 | 115.2 | 193 | 184.3 | 280.6 |
| ACSL5 | 96.7 | 105.9 | 91.7 | 87.6 | 99 | 87.1 | 94.9 | 94.8 |
| ACSL5 | 73.6 | 86.4 | 91.3 | 92.4 | 85 | 90.7 | 86.1 | 85.8 |
| ACSL5 | 151.5 | 199.2 | 101.1 | 93.3 | 86.4 | 84.9 | 127.1 | 146 |
| ACSL5 | 882.8 | 1157.1 | 603 | 538.2 | 343.6 | 559.6 | 645.5 | 707.2 |
| ACSL6 | 89.8 | 100 | 87.5 | 83.1 | 82.3 | 77.1 | 89.4 | 102.9 |
| ACSL6 | 78.9 | 87.8 | 95.8 | 95.7 | 85.9 | 86.5 | 80.6 | 89.6 |
| ACSL6 | 99.2 | 110.3 | 102.5 | 94.6 | 92.5 | 92.2 | 100.3 | 109.4 |
| ACSM1 | 70.2 | 77.6 | 82.1 | 86.1 | 82.6 | 82 | 79.7 | 76.7 |
| ACSM2 | 108.3 | 116 | 93.7 | 80.6 | 84.4 | 79.7 | 96 | 106.4 |
| ACSM2 | 99.3 | 110.4 | 104.1 | 94.5 | 84.3 | 92.6 | 99.7 | 121.3 |
| ACSM3 | 97 | 100.4 | 104 | 89.4 | 95.8 | 89.6 | 92.5 | 112.2 |
| ACSM3 | 76.6 | 92.4 | 103.8 | 92.6 | 90.5 | 97.1 | 83.8 | 104.3 |
| ACSM3 | 103.9 | 135.8 | 106.9 | 107.7 | 91.8 | 105.6 | 109.3 | 114.1 |
| ACSS1 | 145.9 | 197.6 | 220.9 | 181.1 | 180 | 240 | 118.3 | 158.1 |
| ACSS2 | 131.5 | 154.2 | 85.9 | 78.6 | 77 | 87.8 | 108.8 | 167.1 |
| ACSS2 | 99.3 | 121.5 | 91.3 | 82.8 | 83.2 | 93.7 | 98 | 104.8 |
| ACSS2 | 1440.1 | 1840.6 | 1133.8 | 1526.7 | 1396.8 | 1735.6 | 1208.7 | 1342.4 |
| ACSS2 | 1796.9 | 2228.1 | 1362.9 | 2041.6 | 2027.3 | 2370.8 | 1489.8 | 1553.5 |
| ACTA1 | 93.2 | 102.6 | 98.6 | 89.1 | 92.5 | 89.6 | 91.4 | 103 |
| ACTA2 | 116.4 | 146.5 | 107.4 | 112.6 | 91.7 | 102.3 | 128.2 | 141.8 |
| ACTB | 31866.2 | 31406.1 | 25615 | 27578.8 | 23963.8 | 29893.2 | 29811.6 | 32311.5 |
| ACTB | 28810.3 | 31998.4 | 20140 | 23234.8 | 17479.7 | 30753.7 | 25435.6 | 33636.6 |
| ACTBL1 | 94.4 | 94.5 | 86.4 | 78.4 | 75 | 91.1 | 91.9 | 96.5 |
| ACTC | 88.3 | 94.1 | 91.4 | 91.6 | 77.9 | 96.5 | 82.4 | 101.6 |

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|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| ACTG1 | 34708.4 | 33714.1 | 41666.1 | 44609.1 | 33331.4 | 41150.9 | 33335.6 | 33778.6 |
| ACTG2 | 84.7 | 95.4 | 93.4 | 99.5 | 92.1 | 103.6 | 93.3 | 99.3 |
| ACTL6A | 4728 | 6082.4 | 3745.5 | 3218.1 | 2448.7 | 4058.2 | 3922.9 | 5549.3 |
| ACTL6A | 3075.3 | 4312 | 1100.6 | 819.1 | 624.7 | 1240.8 | 2271.4 | 3764 |
| ACTL6B | 95.5 | 87.7 | 96.7 | 102.2 | 95.6 | 98.6 | 89.4 | 104.5 |
| ACTL7A | 85.4 | 91.1 | 96.2 | 88.8 | 83.5 | 97.3 | 76.4 | 95.6 |
| ACTL7B | 102.1 | 134.7 | 100.4 | 95 | 94.6 | 92 | 96 | 111 |
| ACTL8 | 130.7 | 131.1 | 104.8 | 93 | 94.1 | 88.2 | 110.6 | 130.1 |
| ACTN1 | 3648.8 | 3970.4 | 3836.6 | 3928.1 | 3020.3 | 4462 | 2610.7 | 3626.7 |
| ACTN2 | 160.7 | 209.6 | 114.9 | 104.5 | 96.9 | 112.6 | 159 | 195.6 |
| ACTN3 | 77.9 | 87.7 | 97 | 83.6 | 84.9 | 86.8 | 81.6 | 85.2 |
| ACTN4 | 579.3 | 774.6 | 808.6 | 883.4 | 677.7 | 980.7 | 653.6 | 1416.8 |
| ACTR10 | 1155.9 | 1455.1 | 663.7 | 603.7 | 494.1 | 799 | 1301.7 | 2249.5 |
| ACTR1A | 917.2 | 1175.6 | 570.7 | 350.7 | 284.6 | 315.5 | 871 | 952.5 |
| ACTR1B | 554.6 | 615.3 | 450.6 | 408.4 | 384.5 | 575.6 | 352.9 | 560.9 |
| ACTR2 | 12068 | 15255.2 | 8130.7 | 8205 | 6004.5 | 9048.7 | 10981.4 | 16770.4 |
| ACTR3 | 1719.8 | 1964.9 | 790.6 | 943.2 | 683.8 | 1411 | 1626.5 | 3569.9 |
| ACTR3B | 184.8 | 251.7 | 147.7 | 111 | 101.6 | 125.6 | 159 | 171.4 |
| ACTR3B | 98.3 | 128.8 | 101.7 | 89.2 | 92 | 89.5 | 103.4 | 109.8 |
| ACTR3B | 175.7 | 251.2 | 115.8 | 99.9 | 87.2 | 95 | 159.8 | 176.2 |
| ACTR5 | 437.5 | 555.3 | 247 | 240.2 | 217.1 | 265.7 | 319.8 | 433.5 |
| ACTR6 | 614.4 | 688.4 | 342.7 | 381.7 | 308.7 | 484.2 | 594.9 | 1034.8 |
| ACTR8 | 214.5 | 263.1 | 167 | 165.5 | 162.6 | 208.3 | 203.8 | 266.9 |
| ACTRT1 | 115 | 140.7 | 118.2 | 114.8 | 106.3 | 112.9 | 113.2 | 139.2 |
| ACVR1 | 416.5 | 578.3 | 277.6 | 248.3 | 207.9 | 259.9 | 482 | 759.3 |
| ACVR1B | 115.2 | 140.5 | 109.4 | 106.4 | 93.5 | 96.5 | 117 | 119.8 |
| ACVR1B | 96.5 | 125.9 | 98.6 | 94.6 | 92.1 | 107 | 103.4 | 117 |
| ACVR1B | 469.3 | 578.6 | 314.3 | 331.7 | 289.1 | 357.2 | 473.8 | 514 |
| ACVR1B | 89.5 | 103.5 | 93.7 | 91 | 86.4 | 90.3 | 88.8 | 113.6 |
| ACVR1C | 91.3 | 104.7 | 95.7 | 91.4 | 83.7 | 86.9 | 95.3 | 110.4 |
| ACVR2A | 163.4 | 186.2 | 160.6 | 157.2 | 154.7 | 181.5 | 158.6 | 230.9 |
| ACVR2B | 80.8 | 118.4 | 99.4 | 93.8 | 79.4 | 74.6 | 86.9 | 122.9 |
| ACVRL1 | 120.8 | 151.3 | 142.4 | 114.9 | 106.4 | 111.1 | 123.5 | 136.1 |
| ACY1 | 911 | 1203.9 | 865.4 | 589.4 | 453.7 | 715.3 | 780.1 | 1120.3 |
| ACY1L2 | 441.7 | 523.3 | 244.7 | 199 | 162.2 | 297 | 275.9 | 781.7 |
| ACY3 | 102.2 | 109.6 | 97.7 | 86.1 | 83.4 | 90 | 98.4 | 110.8 |
| ACYP1 | 276.2 | 357.9 | 114.4 | 111 | 121.5 | 129.6 | 195.3 | 214.8 |
| ACYP1 | 1162.3 | 1216.4 | 583.2 | 495.5 | 473.4 | 580.8 | 791.4 | 1004.6 |
| ACYP1 | 167.1 | 191 | 134.4 | 117.2 | 100.9 | 103.3 | 140.1 | 183.8 |
| ACYP2 | 372.7 | 463.7 | 265.1 | 263 | 222.6 | 245.1 | 380.9 | 744 |
| AD031 | 113.5 | 111.6 | 84.7 | 78.6 | 83.3 | 77.2 | 104.2 | 123.8 |
| ADA | 534.5 | 716.5 | 505 | 501.3 | 469.9 | 643 | 440.1 | 585.6 |
| ADAL | 185.9 | 249.8 | 137.8 | 145.9 | 137 | 145.7 | 167.1 | 248.9 |
| ADAM10 | 133.7 | 148 | 98.7 | 93.6 | 93.7 | 126 | 124.8 | 147.4 |
| ADAM11 | 95.4 | 102.5 | 104.9 | 99.9 | 93.9 | 117.8 | 91.9 | 115.2 |
| ADAM12 | 100.3 | 120.6 | 83.7 | 86.1 | 87.1 | 91.4 | 101.3 | 111.5 |
| ADAM12 | 106.6 | 119.1 | 100.7 | 80.9 | 81.7 | 83.9 | 106.2 | 128.3 |
| ADAM12 | 78.4 | 101.5 | 90.5 | 88.6 | 80.7 | 84.8 | 78.7 | 85.8 |
| ADAM15 | 301.1 | 426.3 | 261.3 | 211.3 | 166.6 | 204.2 | 245.8 | 488.5 |
| ADAM15 | 5503.9 | 6870 | 4062.5 | 2893.5 | 2496.5 | 2461 | 4716.5 | 4349.6 |

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|----------|-------|-------|-------|-------|-------|-------|-------|-------|
| ADAM15 | 200.8 | 241.7 | 191.6 | 174.5 | 136.3 | 137.1 | 157.7 | 228.4 |
| ADAM17 | 368.4 | 518.4 | 239.4 | 274.7 | 244.4 | 265.9 | 433.2 | 543.6 |
| ADAM18 | 72.4 | 94.7 | 98.8 | 84.2 | 86.1 | 88.7 | 76.3 | 74.2 |
| ADAM19 | 107.9 | 146.6 | 89.7 | 89.2 | 78.2 | 87.3 | 113 | 130.6 |
| ADAM19 | 89.1 | 97.4 | 103.5 | 95.6 | 87 | 91.4 | 85.5 | 92.4 |
| ADAM19 | 117.2 | 130.6 | 128.6 | 156.7 | 112.2 | 133.7 | 105 | 122.7 |
| ADAM2 | 100.6 | 119.7 | 100.3 | 96.5 | 90.6 | 95.8 | 97.4 | 109.6 |
| ADAM20 | 94.7 | 83.8 | 90 | 78 | 69.6 | 86.7 | 86 | 86.3 |
| ADAM21 | 109 | 109.9 | 112.7 | 106.1 | 98.4 | 102.8 | 110.3 | 106.5 |
| ADAM22 | 105.1 | 126.8 | 102.1 | 81 | 92.1 | 86.8 | 97.7 | 124.1 |
| ADAM22 | 78.6 | 91 | 95.4 | 85.6 | 79.7 | 80.4 | 73.8 | 89.9 |
| ADAM22 | 113.7 | 142 | 83.2 | 84.1 | 72.8 | 85.3 | 122.1 | 139.4 |
| ADAM23 | 77.2 | 87.5 | 93.2 | 85.7 | 79.7 | 83.5 | 86.1 | 81.5 |
| ADAM28 | 84.9 | 94.2 | 78.4 | 88.7 | 102.3 | 97.6 | 90.5 | 100.7 |
| ADAM28 | 90.4 | 102.9 | 97.5 | 96.9 | 85.9 | 87.7 | 100.2 | 116.1 |
| ADAM28 | 79.3 | 94.9 | 92.5 | 93.7 | 85.2 | 101.6 | 81.5 | 84.3 |
| ADAM29 | 91.4 | 103.9 | 109.3 | 89.5 | 97 | 92.5 | 92.3 | 95.1 |
| ADAM30 | 90.1 | 104.4 | 104 | 95.7 | 99.6 | 83.5 | 93.1 | 97.8 |
| ADAM32 | 126.2 | 133.6 | 111.5 | 107.2 | 100.1 | 102.9 | 121.4 | 122.2 |
| ADAM32 | 99.1 | 132.9 | 88.3 | 85.2 | 73.6 | 78.2 | 105.4 | 111 |
| ADAM33 | 112.1 | 130 | 123 | 101.9 | 106 | 107.8 | 110.4 | 112.5 |
| ADAM33 | 112.3 | 107.1 | 97.7 | 89.7 | 95.3 | 101.3 | 108.8 | 119.1 |
| ADAM3A | 71.5 | 88 | 91.8 | 89.8 | 80.3 | 88.9 | 75 | 78.5 |
| ADAM6 | 94.3 | 100 | 106.9 | 97.2 | 92.7 | 98.8 | 84.3 | 104.5 |
| ADAM7 | 133.3 | 146.2 | 111 | 94.4 | 98.2 | 91.8 | 132.5 | 133.5 |
| ADAM8 | 83.8 | 94.6 | 99 | 92.2 | 101.2 | 96.1 | 85.4 | 96.8 |
| ADAM9 | 242.3 | 291.5 | 131.2 | 124.2 | 127.4 | 133.2 | 192 | 283.7 |
| ADAMDEC | 85.5 | 97.1 | 97.1 | 255.5 | 249.4 | 343.4 | 98.7 | 107.8 |
| ADAMTS1 | 208.9 | 245.4 | 113.2 | 117.1 | 97.1 | 119.3 | 154 | 189.7 |
| ADAMTS10 | 84.5 | 96.6 | 100.2 | 91.9 | 91.2 | 97.5 | 93.1 | 116.3 |
| ADAMTS12 | 89.6 | 105.6 | 93.2 | 83.6 | 88.7 | 79.7 | 95.6 | 93.7 |
| ADAMTS13 | 104.7 | 117.9 | 90.7 | 77.2 | 88.5 | 84.7 | 101.7 | 122.1 |
| ADAMTS13 | 79.9 | 81.5 | 84.7 | 81.8 | 82.3 | 74 | 79 | 77.3 |
| ADAMTS13 | 117.9 | 147 | 105.1 | 95.6 | 104.2 | 94.6 | 128.3 | 144.5 |
| ADAMTS14 | 85.2 | 94.1 | 93.9 | 87 | 80.5 | 91.9 | 86.5 | 89.6 |
| ADAMTS14 | 97.7 | 116.2 | 84.7 | 83.5 | 79.4 | 91.1 | 103.8 | 124.7 |
| ADAMTS15 | 101.9 | 127.3 | 93.6 | 94.8 | 84.7 | 90.1 | 94.6 | 110.9 |
| ADAMTS16 | 99.4 | 112.4 | 106.3 | 97.7 | 107.5 | 96.2 | 105.1 | 113.2 |
| ADAMTS17 | 107.9 | 129.5 | 112.9 | 100.8 | 100.2 | 95.2 | 122.5 | 134.1 |
| ADAMTS18 | 109.3 | 140.1 | 107 | 90.5 | 90.3 | 89 | 128.5 | 141.3 |
| ADAMTS18 | 91.7 | 102.9 | 98.9 | 89.4 | 94.2 | 85.7 | 90.9 | 94.2 |
| ADAMTS19 | 107.4 | 111.7 | 134.4 | 123.2 | 118.3 | 129.7 | 98.2 | 112.6 |
| ADAMTS2 | 113.3 | 129.9 | 97.5 | 111.7 | 102.1 | 100 | 115.1 | 123.1 |
| ADAMTS2 | 140.9 | 169.1 | 171.2 | 237.5 | 194.3 | 247.9 | 110.3 | 176.1 |
| ADAMTS20 | 92.5 | 108.3 | 88.3 | 84.5 | 84.8 | 87.6 | 94.8 | 104.2 |
| ADAMTS20 | 80 | 90.5 | 92 | 82.4 | 89.4 | 84.6 | 75 | 91.2 |
| ADAMTS3 | 94.1 | 94.9 | 85 | 78.5 | 83.3 | 82.7 | 91.5 | 109.7 |
| ADAMTS4 | 86.7 | 92.1 | 115.5 | 99.9 | 98.2 | 91.4 | 89.2 | 76.8 |
| ADAMTS5 | 88.6 | 96.9 | 93 | 77.3 | 85.1 | 85 | 90.9 | 85.4 |
| ADAMTS6 | 111.4 | 95.6 | 105.6 | 87 | 83.8 | 98.7 | 99.9 | 111.7 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| ADAMTS7 | 92.3 | 94.7 | 85.9 | 90.3 | 81.2 | 84.3 | 86.7 | 91 |
| ADAMTS8 | 131.2 | 153.4 | 98.6 | 91.3 | 89.1 | 94.2 | 132.2 | 116.6 |
| ADAMTS9 | 106.4 | 140.3 | 109.8 | 105.7 | 96.7 | 93.8 | 106.8 | 110.6 |
| ADAMTSL1 | 91.8 | 99.3 | 88.9 | 97.7 | 88.5 | 89.9 | 83.7 | 111.1 |
| ADAMTSL1 | 88.1 | 93.2 | 80 | 84.9 | 82.5 | 78.7 | 85.9 | 92.2 |
| ADAMTSL1 | 104.7 | 127.7 | 103.8 | 103.1 | 93.4 | 94.2 | 105.2 | 110.3 |
| ADAMTSL1 | 80.6 | 85.1 | 82 | 80.5 | 79 | 81.6 | 85.1 | 85.9 |
| ADAMTSL2 | 81.3 | 89.1 | 104.3 | 93.6 | 90.2 | 100.6 | 84.9 | 81 |
| ADAMTSL3 | 120.7 | 136.5 | 92.7 | 96.3 | 81.2 | 82.4 | 119.6 | 139 |
| ADAMTSL5 | 120.4 | 143.1 | 137.9 | 115.1 | 117.4 | 117.4 | 109.1 | 151 |
| ADAR | 2979.2 | 3664.5 | 1319.4 | 1516.5 | 1173.7 | 1676.4 | 2619.3 | 3006.1 |
| ADAR | 116.1 | 117.9 | 85.3 | 93 | 81.2 | 80 | 103.5 | 128.2 |
| ADAR | 718 | 1109.6 | 991.2 | 787.4 | 647.8 | 1360.7 | 674.1 | 879.3 |
| ADARB1 | 110.3 | 158.4 | 103 | 90.6 | 87.3 | 89.7 | 114.5 | 140 |
| ADARB1 | 155 | 194 | 146.9 | 140.9 | 133.3 | 147.7 | 137 | 164 |
| ADARB1 | 104.8 | 121.3 | 93.3 | 96.3 | 89.7 | 89.5 | 106.2 | 114.5 |
| ADARB1 | 378.5 | 513 | 269.9 | 336.9 | 311.1 | 410.2 | 351.7 | 470.4 |
| ADARB2 | 103.5 | 114.4 | 98.3 | 95.7 | 89.6 | 93 | 109.7 | 114.7 |
| ADAT1 | 413.8 | 581.3 | 425.8 | 373.5 | 278.2 | 477.4 | 326.9 | 505.2 |
| ADC | 104.9 | 106.9 | 97.7 | 89.4 | 97 | 103.3 | 106.7 | 99.2 |
| ADCK1 | 213.8 | 268.2 | 206.3 | 200.3 | 179.2 | 228.5 | 173.1 | 284.8 |
| ADCK2 | 1423.4 | 1878.5 | 1232.6 | 893.8 | 647.7 | 1002 | 1161.7 | 999.6 |
| ADCK4 | 167.3 | 189.4 | 119.2 | 107 | 88.9 | 126 | 153.4 | 188.5 |
| ADCK5 | 247.9 | 305 | 181.2 | 149.7 | 141.3 | 203.6 | 198 | 271 |
| ADCY1 | 251.8 | 374.1 | 281.4 | 684 | 429.7 | 939.4 | 226.5 | 456 |
| ADCY2 | 148.3 | 161.8 | 103.7 | 102.8 | 90.6 | 103.6 | 150 | 196.2 |
| ADCY3 | 2339.2 | 2649.3 | 2701.2 | 2306.4 | 1518.5 | 2531.7 | 1608.2 | 2187.1 |
| ADCY4 | 166.2 | 177.8 | 169.6 | 149.4 | 153 | 173.8 | 147.7 | 176.6 |
| ADCY5 | 80.6 | 89.7 | 79.3 | 72.5 | 74.6 | 84.2 | 87.8 | 86.9 |
| ADCY6 | 110.8 | 139.5 | 117.4 | 99.8 | 100 | 112.4 | 117.5 | 134.1 |
| ADCY6 | 110.1 | 140.2 | 127.5 | 99.4 | 117.6 | 129.1 | 111.3 | 124.3 |
| ADCY7 | 287.3 | 418.5 | 204.6 | 179.7 | 190.9 | 278.4 | 248.5 | 284.8 |
| ADCY8 | 104.8 | 108.9 | 97 | 86.5 | 92.2 | 90.5 | 99 | 105.3 |
| ADCY9 | 440.7 | 676.6 | 391.8 | 214.5 | 205.9 | 259.9 | 404.9 | 808.2 |
| ADCYAP1 | 134.7 | 130.7 | 100.5 | 88.7 | 85.4 | 92.7 | 119 | 126.6 |
| ADCYAP1R: | 101.4 | 114.7 | 103.1 | 92 | 85.8 | 96.1 | 103.9 | 106.2 |
| ADD1 | 142.9 | 166.5 | 100.3 | 101.3 | 87 | 109.4 | 146.1 | 190.7 |
| ADD1 | 3192.7 | 3417.8 | 2043.6 | 2219.1 | 1685.7 | 2410.9 | 2510.1 | 2984.5 |
| ADD2 | 102.2 | 116.6 | 92.1 | 93.5 | 93 | 82.8 | 98.6 | 117.1 |
| ADD2 | 77 | 96.8 | 91.8 | 91.6 | 88 | 89.7 | 83.4 | 98.4 |
| ADD2 | 123.7 | 152.8 | 109.7 | 86.9 | 86 | 84 | 128.8 | 129 |
| ADD3 | 95.6 | 109.2 | 98.1 | 87.8 | 84.8 | 90.4 | 92.3 | 103.1 |
| ADD3 | 120.5 | 142.7 | 102.9 | 116.1 | 99.7 | 122.4 | 104 | 126.7 |
| ADD3 | 396.5 | 464.3 | 193.5 | 261.2 | 212.1 | 381.6 | 314.7 | 465.2 |
| ADD3 | 253.9 | 305.8 | 148.2 | 185.7 | 165.6 | 228.9 | 172.3 | 248.9 |
| ADFP | 1551.1 | 2097.3 | 1343.6 | 1378.7 | 1184.9 | 3136.8 | 1784.5 | 3147.9 |
| ADH1A | 79.4 | 91.5 | 82 | 84.7 | 86.9 | 94.2 | 86.5 | 92.8 |
| ADH1B | 76 | 77.5 | 94.1 | 92.3 | 87.8 | 90.3 | 82.5 | 83.4 |
| ADH1C | 70.7 | 82.1 | 89.1 | 82.5 | 79.8 | 86.5 | 74.8 | 81.3 |
| ADH4 | 89 | 99.3 | 82.7 | 77.6 | 79.3 | 71.6 | 85.4 | 91.7 |

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|---------|--------|---------|--------|--------|--------|--------|--------|--------|
| ADH5 | 203.9 | 268.4 | 117.3 | 103.1 | 85.8 | 110.1 | 161.1 | 248.6 |
| ADH6 | 100.2 | 118.5 | 103.8 | 101.1 | 93 | 90.7 | 100.1 | 117.9 |
| ADH7 | 83.1 | 90.4 | 82 | 84.9 | 80 | 82.5 | 79.3 | 95.5 |
| ADHFE1 | 98.3 | 107 | 98.3 | 93.1 | 92.6 | 92.1 | 99.3 | 107.7 |
| ADHFE1 | 94.3 | 94.9 | 90 | 78 | 86.9 | 82.3 | 96 | 93.6 |
| ADI1 | 220.5 | 270.8 | 108.1 | 103.9 | 92.7 | 105.5 | 187.4 | 296.8 |
| ADIPOQ | 164.4 | 162.8 | 87.2 | 91.7 | 81.6 | 92.1 | 144.6 | 144.2 |
| ADIPOR1 | 529 | 693.9 | 492.4 | 506.8 | 397.6 | 602.8 | 447.5 | 1139.7 |
| ADIPOR2 | 1022.3 | 1275.9 | 925.7 | 962.9 | 867.4 | 1111.2 | 801.3 | 1279.7 |
| ADK | 317.2 | 391.7 | 156.6 | 129.7 | 129.2 | 128.5 | 268.6 | 262 |
| ADK | 84.4 | 88.9 | 87.4 | 84.2 | 79.4 | 82.8 | 85.3 | 91.8 |
| ADK | 422.2 | 555 | 279.5 | 173.3 | 171.2 | 229.9 | 322.3 | 357 |
| ADM | 86.1 | 102 | 98.1 | 162.9 | 205.6 | 314.6 | 130.8 | 210.7 |
| ADM2 | 333.7 | 372.8 | 190 | 149.2 | 129.9 | 145.2 | 411.2 | 561 |
| ADMR | 131.5 | 134.3 | 96.8 | 79.8 | 73.5 | 86.9 | 127.4 | 136.8 |
| ADNP | 701.4 | 939 | 305.2 | 303 | 220.8 | 368.2 | 632.4 | 981.4 |
| ADNP | 125.9 | 178.6 | 127.6 | 178.1 | 155.5 | 154.2 | 117.5 | 151.8 |
| ADORA1 | 83.3 | 85.8 | 89.7 | 81.4 | 79.5 | 83.2 | 85.8 | 93 |
| ADORA1 | 93.9 | 109.3 | 91.2 | 90.4 | 88.5 | 89.5 | 103.3 | 111.8 |
| ADORA2A | 124.6 | 126.6 | 110.6 | 110.7 | 109.6 | 108.6 | 104.7 | 126 |
| ADORA2B | 496.4 | 661.5 | 328.3 | 375.5 | 261.8 | 451.3 | 576.8 | 1045.7 |
| ADORA3 | 131.1 | 147.8 | 132.3 | 209.1 | 151.6 | 193 | 138.5 | 140.2 |
| ADORA3 | 324.9 | 381.7 | 178.5 | 188.3 | 169.1 | 234.6 | 250.1 | 315.5 |
| ADPGK | 1067.8 | 1315.8 | 779.3 | 970.3 | 865.3 | 1220 | 893.7 | 1182.3 |
| ADPN | 86.9 | 97 | 100.4 | 105.6 | 111.7 | 107.9 | 88.2 | 104.3 |
| ADPRH | 146.2 | 198.3 | 100.6 | 95.4 | 90.6 | 97.9 | 124.7 | 177.3 |
| ADPRHL1 | 92 | 112.5 | 94.8 | 96.6 | 86.1 | 82 | 100.6 | 104.1 |
| ADPRHL1 | 86.2 | 100 | 101 | 93.3 | 91.9 | 87.1 | 97.8 | 106.6 |
| ADPRHL1 | 115.4 | 128.5 | 92.7 | 93.5 | 88.8 | 94.9 | 124.8 | 123.2 |
| ADPRHL2 | 459.3 | 581.8 | 253.6 | 192.4 | 203.2 | 261.8 | 391.6 | 399.1 |
| ADRA1A | 77.8 | 81.8 | 88.8 | 83.4 | 81.1 | 85.2 | 84.3 | 88.4 |
| ADRA1A | 80.8 | 95.9 | 90.9 | 82.2 | 78.6 | 87.9 | 84.4 | 84.1 |
| ADRA1A | 126.6 | 155.2 | 93.6 | 87.6 | 79.4 | 74.6 | 121 | 151.8 |
| ADRA1A | 130.9 | 147.1 | 110.5 | 106.8 | 101.4 | 101.7 | 111.2 | 129.5 |
| ADRA1A | 106.7 | 127.9 | 99 | 103.7 | 95.6 | 97.4 | 113.1 | 113.8 |
| ADRA1B | 94.1 | 111.2 | 108.9 | 106.9 | 99.6 | 99.7 | 94.6 | 100.5 |
| ADRA1D | 116.6 | 151.7 | 104.1 | 101.8 | 95.2 | 102.3 | 110.3 | 126.4 |
| ADRA2A | 129.9 | 152.9 | 109.6 | 95.6 | 101.2 | 91 | 152.9 | 148.8 |
| ADRA2B | 190.3 | 210.2 | 102.3 | 115.4 | 109.8 | 115.2 | 202.6 | 206 |
| ADRA2C | 107 | 131.4 | 112.4 | 101 | 94.2 | 105.1 | 109.6 | 111.6 |
| ADRB1 | 124.2 | 142.3 | 113.5 | 108.4 | 112.1 | 123.4 | 110.1 | 129.8 |
| ADRB2 | 300.9 | 383 | 198.5 | 292.5 | 296.1 | 317.3 | 174.1 | 209.5 |
| ADRB3 | 101.6 | 123 | 93.4 | 87.9 | 95.6 | 93.1 | 112.6 | 106.2 |
| ADRBK1 | 81.3 | 84.8 | 92.7 | 85.7 | 83.3 | 82.8 | 72.7 | 80.4 |
| ADRBK2 | 100 | 118.3 | 83.8 | 87 | 82.1 | 87.4 | 98.7 | 109.6 |
| ADRM1 | 684.6 | 794.3 | 525.1 | 356.1 | 285 | 395.7 | 679.7 | 1279.3 |
| ADRM1 | 2274.7 | 2691.5 | 673 | 488.6 | 468 | 717.3 | 2530.9 | 6690.4 |
| ADSL | 7255.1 | 10043.6 | 5387.7 | 4898.5 | 4525.3 | 6434.1 | 6291.4 | 6203.2 |
| ADSS | 3123.1 | 3833.6 | 2182.2 | 2356.5 | 1583.1 | 2665.4 | 2580 | 4140.4 |
| ADSSL1 | 88.5 | 105.7 | 93.8 | 84.8 | 81.9 | 86.8 | 94.1 | 102 |

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|------------|--------|--------|--------|--------|-------|--------|--------|--------|
| ADSSL1 | 238.9 | 293.8 | 223.5 | 207.2 | 176.2 | 259.3 | 195.9 | 275.3 |
| ADSSL1 | 175.7 | 254.4 | 124.5 | 94.6 | 92.5 | 105 | 155.4 | 183.1 |
| AEBP1 | 120 | 135.6 | 77.6 | 81.6 | 79 | 85.5 | 114.8 | 130.9 |
| AEBP2 | 180 | 183.3 | 113.4 | 139 | 120.1 | 159.9 | 142 | 193.2 |
| AES | 864.9 | 1226.9 | 927.3 | 596.5 | 444.8 | 781.8 | 898 | 1686.9 |
| AES | 586.1 | 800.1 | 493.3 | 327.1 | 262.8 | 323.7 | 508.5 | 1095 |
| AES | 110.4 | 117 | 83.7 | 86 | 92.8 | 83.8 | 98 | 106.2 |
| AFAP | 87.7 | 93.1 | 91.2 | 89.7 | 95.3 | 96.1 | 78.3 | 88.9 |
| AFAP | 127.7 | 159.6 | 123.3 | 132.9 | 112.9 | 134.8 | 110 | 126.7 |
| AFAP | 91.2 | 104.6 | 116.4 | 107.3 | 95.8 | 101.3 | 92.8 | 100.9 |
| AFAP1L2 | 110.2 | 115 | 89.2 | 85.5 | 83.7 | 85.1 | 112.7 | 114.9 |
| AFAR3 | 141.8 | 165.6 | 95.7 | 102.6 | 88.3 | 106.7 | 142.2 | 171 |
| AFARP1 | 100.5 | 126.2 | 93.8 | 87.8 | 84.3 | 86.8 | 105.3 | 127.9 |
| AFARP1 | 82.1 | 84.5 | 97.6 | 95.3 | 88.1 | 96.4 | 82 | 86.6 |
| AFF1 | 482.9 | 836.4 | 221.4 | 306.3 | 237.6 | 352.8 | 338.9 | 375.8 |
| AFF2 | 104.5 | 127.9 | 101.2 | 117.6 | 104.1 | 121.7 | 112 | 124.7 |
| AFF3 | 784.3 | 1091.4 | 256.1 | 399.6 | 403.1 | 462.5 | 561.1 | 644.8 |
| AFF3 | 110.4 | 122 | 102 | 101.7 | 88.4 | 98.5 | 101.1 | 103.8 |
| AFF4 | 249.5 | 349.5 | 122 | 145.8 | 161.9 | 197.8 | 218.1 | 362.4 |
| AFG3L1 | 329.3 | 414.5 | 388.1 | 393 | 368.1 | 639.1 | 310.2 | 715.3 |
| AFG3L1 | 136.6 | 155.6 | 128.6 | 129.2 | 119.5 | 112.8 | 111.3 | 133.8 |
| AFG3L1 | 122.8 | 141.4 | 88.2 | 91.9 | 86.1 | 81.3 | 112.2 | 120 |
| AFG3L1 | 96.6 | 105.5 | 90.3 | 89.8 | 88 | 79.7 | 101.6 | 97.8 |
| AFG3L2 | 1786.6 | 2452.7 | 1230.6 | 997.8 | 973.9 | 1488.2 | 1463.7 | 1716.7 |
| AFM | 86 | 79.8 | 86.4 | 89.4 | 83.5 | 78.4 | 75.4 | 79.9 |
| AFMID | 113.3 | 136.9 | 121.1 | 96.6 | 94.9 | 113.1 | 108.7 | 110.2 |
| AFP | 132.8 | 136.5 | 102 | 92.8 | 97.4 | 94.3 | 111.3 | 129.6 |
| AFTIPHILIN | 145.4 | 181.5 | 152.9 | 120.5 | 112.4 | 158 | 129.5 | 142 |
| AFTIPHILIN | 230.2 | 273.9 | 123.7 | 124.8 | 100.5 | 140.1 | 228.2 | 382.5 |
| AFTPH | 491.4 | 703.3 | 258.5 | 209.5 | 173.7 | 416.9 | 447.7 | 569.3 |
| AGA | 606.7 | 765.9 | 307.8 | 301.6 | 255.5 | 309.9 | 536.9 | 801.8 |
| AGBL1 | 91.9 | 105.4 | 79.2 | 81.5 | 76.3 | 70.2 | 88.5 | 87.6 |
| AGBL2 | 86.9 | 92.4 | 108.6 | 89.4 | 83.9 | 97.2 | 95.3 | 88.4 |
| AGBL4 | 73.9 | 88.1 | 79.4 | 91.5 | 73.5 | 83.1 | 81.3 | 92.5 |
| AGC1 | 111.1 | 119.8 | 120.3 | 112.4 | 90.7 | 111.3 | 111.7 | 107.9 |
| AGC1 | 74.3 | 82.8 | 89.2 | 83 | 78.7 | 78.9 | 75.2 | 66.5 |
| AGER | 117.2 | 133 | 97.1 | 90.9 | 76.2 | 86.6 | 114.4 | 121.6 |
| AGER | 112.5 | 127.8 | 103 | 102.1 | 95.6 | 115.2 | 93.5 | 120.2 |
| AGGF1 | 1176.7 | 1435.2 | 782.4 | 1043.7 | 854.1 | 1410.5 | 1003.8 | 1318.3 |
| AGL | 107.9 | 113.5 | 89.5 | 76.7 | 78.4 | 85.2 | 116.4 | 123 |
| AGL | 90.1 | 98.1 | 93.7 | 88 | 85.9 | 90.1 | 93.3 | 103.5 |
| AGL | 569.6 | 688.4 | 365.5 | 345.9 | 244.8 | 461.6 | 524.3 | 935.3 |
| AGL | 94.4 | 105.3 | 95.2 | 85.8 | 73.7 | 85.1 | 92.1 | 111.2 |
| AGL | 98.4 | 116.6 | 101 | 95.8 | 92.9 | 92.3 | 101 | 108.9 |
| AGL | 215.6 | 250.7 | 120.4 | 123.1 | 130.1 | 172.5 | 170.8 | 281.1 |
| AGMAT | 401 | 497 | 384.5 | 253.8 | 202 | 152.2 | 309.1 | 472.3 |
| AGPAT1 | 82.4 | 88.8 | 86.8 | 75.8 | 73.3 | 79.1 | 86.3 | 89 |
| AGPAT1 | 81.2 | 92.4 | 84.4 | 88.1 | 84.8 | 84.8 | 84.8 | 95 |
| AGPAT1 | 236.8 | 306.5 | 251.1 | 312.3 | 261.7 | 395.8 | 228.6 | 450.7 |
| AGPAT2 | 1181.9 | 1649.8 | 812.3 | 583.2 | 453.2 | 824.6 | 1115.2 | 1550.1 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| AGPAT2 | 1486.2 | 1897.8 | 591.3 | 434.2 | 353.1 | 287.1 | 1341.6 | 1788.5 |
| AGPAT2 | 1064.5 | 1507.2 | 402.2 | 332.8 | 276.6 | 363.9 | 1029 | 1504 |
| AGPAT3 | 93.3 | 136.2 | 109.1 | 107.8 | 95.5 | 91.4 | 105.3 | 124.5 |
| AGPAT3 | 211.9 | 328.3 | 189.1 | 215.8 | 181.9 | 190.8 | 176.5 | 228.1 |
| AGPAT4 | 136.4 | 150.3 | 137.8 | 158.8 | 143.4 | 203.5 | 120.7 | 158.4 |
| AGPAT5 | 968.6 | 1278.8 | 496 | 338.9 | 282.2 | 481.7 | 574.5 | 704.8 |
| AGPAT6 | 194.5 | 241 | 102.8 | 95.6 | 100.8 | 98.1 | 171.2 | 180.3 |
| AGPAT7 | 136.9 | 150.8 | 157.5 | 99.3 | 107.9 | 126.9 | 125.1 | 168.7 |
| AGPS | 1362.7 | 1686.9 | 936.1 | 1064.7 | 740.4 | 1469.6 | 891.9 | 1420.2 |
| AGR2 | 157.1 | 164.3 | 99.1 | 85.7 | 91 | 100.4 | 119.6 | 154.7 |
| AGR3 | 88.9 | 92.3 | 87.2 | 86.8 | 81.9 | 91.9 | 83.3 | 99.6 |
| AGRN | 91.9 | 105.8 | 90.5 | 89.9 | 92.7 | 91.3 | 94.1 | 95.3 |
| AGRP | 122.8 | 119.4 | 101 | 90.8 | 78.4 | 84.5 | 106.5 | 145.3 |
| AGRP | 83.8 | 96.8 | 94.8 | 91.5 | 87.6 | 95.6 | 85 | 101.6 |
| AGT | 1166.6 | 1594.7 | 825.1 | 934.8 | 832 | 1263.8 | 1001.9 | 1466.9 |
| AGTPBP1 | 91 | 98.3 | 85.3 | 96.4 | 86.4 | 97.3 | 102.8 | 133.1 |
| AGTR1 | 75.3 | 87.7 | 87.2 | 85.7 | 80.7 | 85.7 | 71.5 | 88.5 |
| AGTR1 | 133.9 | 151.1 | 96.6 | 91.9 | 84.8 | 96.8 | 129.9 | 125.4 |
| AGTR2 | 117.5 | 136.1 | 103.5 | 87.7 | 92.7 | 101.2 | 96.8 | 129.5 |
| AGTRAP | 349.7 | 402.2 | 201.1 | 171.4 | 122.5 | 176.6 | 250.9 | 450.4 |
| AGTRAP | 282.3 | 382.3 | 207.7 | 127.8 | 120.4 | 198.7 | 238 | 319.5 |
| AGTRL1 | 88.2 | 104.3 | 95.6 | 82.8 | 83.9 | 95.3 | 95.7 | 99.7 |
| AGXT | 87.2 | 98.3 | 88.5 | 84.5 | 91.2 | 92 | 90 | 80.6 |
| AGXT2 | 80.4 | 91.6 | 85.7 | 87.5 | 74.5 | 84.3 | 89.6 | 98.1 |
| AGXT2L1 | 97.3 | 107.7 | 82 | 82.7 | 83.8 | 80.6 | 94.9 | 101.6 |
| AHCTF1 | 829.6 | 1085.8 | 548 | 914.4 | 591.5 | 1155.6 | 698.1 | 1094.6 |
| AHCTF1 | 817.2 | 1236.5 | 724 | 699.4 | 566.3 | 1291.5 | 632.5 | 1123.5 |
| AHCY | 5138.3 | 6658.7 | 5900.7 | 5859.9 | 4379.6 | 6641.9 | 4427.1 | 8680.4 |
| AHCYL1 | 2569.6 | 3985.7 | 1589.3 | 1187.2 | 885.4 | 1717 | 2428.9 | 3730 |
| AHDC1 | 124.8 | 118.6 | 112.5 | 102.1 | 111.6 | 117.9 | 108.9 | 114.3 |
| AHI1 | 272.2 | 320.1 | 219.5 | 280.5 | 256.1 | 348 | 200.6 | 308.9 |
| AHNAK | 936.7 | 1762 | 494.3 | 1563.2 | 1633.8 | 2026.4 | 1277.7 | 1917.1 |
| AHNAK | 199.2 | 256.3 | 173.4 | 122.4 | 120.9 | 109.7 | 190.8 | 184.9 |
| AHNAK | 236.5 | 285.1 | 111.5 | 96.7 | 98.3 | 101 | 210.6 | 318.7 |
| AHR | 123.8 | 136.7 | 110.1 | 97.3 | 92.6 | 96.9 | 111.1 | 137.6 |
| AHRR | 111.3 | 125.3 | 91.7 | 116.2 | 98.1 | 115.4 | 120.8 | 126.4 |
| AHSA1 | 2558.5 | 3518.5 | 1093.3 | 552.6 | 506.8 | 855.2 | 2529.9 | 3420.4 |
| AHSA2 | 537.4 | 414 | 167 | 178.6 | 178.4 | 205.7 | 284.4 | 532.9 |
| AHSG | 137.8 | 173.4 | 93.5 | 92.5 | 81.1 | 87.8 | 131.7 | 142.4 |
| AICDA | 96.1 | 110.7 | 100.7 | 80.9 | 97.5 | 94.6 | 102.9 | 99.4 |
| AIF1 | 5851.1 | 7535.4 | 3063.3 | 3861.5 | 3162.6 | 5093.8 | 4665.7 | 5253.2 |
| AIF1 | 7394.9 | 8940.6 | 6552.3 | 7859.1 | 5805 | 8217 | 6210.3 | 11105 |
| AIF1 | 81.9 | 107.1 | 96.5 | 114.7 | 106.8 | 101.5 | 81.4 | 98.3 |
| AIFL | 141.4 | 148.9 | 92.3 | 89.1 | 87.4 | 92.6 | 121.6 | 158.1 |
| AIFM1 | 1899.4 | 2602.6 | 1178.5 | 1377.2 | 978.3 | 1602.7 | 1658.2 | 2022.6 |
| AIG1 | 1070.5 | 1341.5 | 402.6 | 720.5 | 510.8 | 867.6 | 895.7 | 1323.8 |
| AIM1 | 197.7 | 265.4 | 139.1 | 134.3 | 130.1 | 172.5 | 154.1 | 210.8 |
| AIM1L | 83.2 | 93.1 | 95.7 | 89.6 | 80.6 | 88.3 | 80.6 | 91.5 |
| AIM2 | 95.8 | 104.3 | 96.5 | 85.9 | 78.5 | 89.1 | 96.8 | 114.4 |
| AIP | 941.5 | 1098.8 | 1016.1 | 798.8 | 757.3 | 1094.5 | 928.3 | 1185.7 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| AIPL1 | 93.4 | 116.8 | 104.8 | 94.3 | 90.9 | 93.8 | 96.9 | 107.4 |
| AIPL1 | 85.3 | 99.3 | 106.3 | 96.7 | 95.4 | 90.4 | 78 | 93.5 |
| AIRE | 116.2 | 128 | 96.6 | 99.2 | 82.7 | 93.3 | 110.7 | 120.2 |
| AIRE | 5940.1 | 6692.6 | 2558.7 | 4188.6 | 4256.6 | 3107.8 | 5095.4 | 4284.5 |
| AJAP1 | 74.9 | 98.6 | 93.9 | 81.2 | 82 | 77.3 | 80.8 | 78.7 |
| AJAP1 | 106.6 | 137.2 | 93.7 | 95.6 | 84.6 | 101.1 | 106 | 130.7 |
| AJAP1 | 140.6 | 194.9 | 108.6 | 107.6 | 100.5 | 113.3 | 145.7 | 161.6 |
| AK1 | 553 | 620.9 | 300.5 | 172.1 | 172.2 | 172.6 | 428.7 | 395 |
| AK2 | 1683.4 | 2184.2 | 403.5 | 341 | 284.8 | 386.5 | 1536.7 | 1690.5 |
| AK2 | 594.5 | 731.5 | 456.7 | 675.6 | 470.1 | 811.7 | 365.9 | 471.8 |
| AK2 | 4017.6 | 5732.9 | 2984.6 | 2645.2 | 2071.9 | 3278 | 3393.1 | 4804.6 |
| AK3 | 2631.1 | 3284.3 | 1718.4 | 1658.8 | 1268.4 | 1838.1 | 2025.6 | 2484.8 |
| AK3L1 | 965.8 | 1222.1 | 637.7 | 712 | 593.7 | 805.8 | 608.2 | 813.4 |
| AK3L1 | 88 | 112.4 | 89.8 | 86 | 79.8 | 86.7 | 91.4 | 102.9 |
| AK5 | 103.2 | 111.3 | 83.6 | 78.7 | 83.4 | 82.2 | 91.8 | 100.7 |
| AK5 | 82 | 81.4 | 89.8 | 81.5 | 79.9 | 85.1 | 78.2 | 74.5 |
| AK5 | 79.4 | 83 | 103.5 | 82.8 | 94.9 | 82.4 | 78.4 | 80.5 |
| AK7 | 109.6 | 131.6 | 90.2 | 81 | 86.6 | 86.4 | 116.2 | 119.6 |
| AKAP1 | 383.6 | 430.6 | 174.5 | 159.8 | 164.7 | 210.1 | 262.5 | 592.8 |
| AKAP10 | 139.2 | 186 | 111 | 126.5 | 128.9 | 136.3 | 149.2 | 141.7 |
| AKAP11 | 75 | 83 | 77.7 | 83 | 76.4 | 78.6 | 80.2 | 82.5 |
| AKAP11 | 427.1 | 548.8 | 283.2 | 449.3 | 310 | 693.1 | 361.1 | 583.6 |
| AKAP11 | 121.6 | 108.2 | 124.9 | 105 | 102.2 | 101.9 | 84.7 | 99.8 |
| AKAP12 | 87.1 | 96.1 | 100.7 | 97.1 | 85.3 | 89.7 | 99.1 | 91.9 |
| AKAP12 | 109.6 | 142.8 | 99.8 | 85.8 | 72.3 | 85.5 | 102.3 | 121.8 |
| AKAP12 | 193.2 | 265 | 160.1 | 132.4 | 127.2 | 135.7 | 193.3 | 237 |
| AKAP13 | 113.4 | 113.9 | 114.7 | 147.5 | 149.1 | 191.2 | 100 | 114.9 |
| AKAP13 | 381.5 | 548.8 | 290.7 | 671.9 | 527.2 | 800 | 304.3 | 298 |
| AKAP14 | 70.4 | 80.9 | 85.9 | 83.6 | 83.2 | 82 | 66.6 | 78.3 |
| AKAP14 | 79.2 | 90.1 | 91.3 | 92.5 | 87.5 | 85.5 | 84.6 | 82.6 |
| AKAP14 | 86.1 | 102.9 | 100.3 | 83.1 | 87.1 | 95 | 104.4 | 102.9 |
| AKAP2 | 76.3 | 88 | 88 | 95.9 | 84.4 | 87.4 | 80.2 | 90 |
| AKAP3 | 110.9 | 116.9 | 108.1 | 100.3 | 98.5 | 109.4 | 116.1 | 108.2 |
| AKAP4 | 115.8 | 129.9 | 90.9 | 94.4 | 74.3 | 82.1 | 132.2 | 125.9 |
| AKAP4 | 102 | 92.1 | 105.7 | 108.3 | 95.9 | 102.4 | 87.9 | 92.8 |
| AKAP4 | 130.3 | 152.9 | 99.7 | 100.8 | 99.9 | 93.2 | 146.5 | 133.8 |
| AKAP5 | 109.5 | 127.9 | 86.7 | 88.1 | 74.2 | 87.4 | 105 | 109.4 |
| AKAP6 | 82 | 87.2 | 93.1 | 87.1 | 77.8 | 86.2 | 81.7 | 88.4 |
| AKAP7 | 89.6 | 114.6 | 84.8 | 74.7 | 67.9 | 73.8 | 92.9 | 105.5 |
| AKAP7 | 109 | 130.7 | 99.1 | 99.1 | 90.6 | 100.9 | 97.3 | 125.6 |
| AKAP7 | 1253.9 | 1728.3 | 1206.8 | 1137.2 | 1095.6 | 1517.2 | 700.7 | 991.7 |
| AKAP7 | 248.3 | 325.3 | 140.9 | 126.6 | 136 | 152.8 | 116.9 | 112.3 |
| AKAP8 | 565.3 | 734.4 | 582.2 | 522.4 | 451.9 | 761 | 508.9 | 874.7 |
| AKAP8L | 246.2 | 254.6 | 216.7 | 188.2 | 160.3 | 201.2 | 242.8 | 357.7 |
| AKAP9 | 106.8 | 121.1 | 84.9 | 85.8 | 85.7 | 84.5 | 105.4 | 113.2 |
| AKAP9 | 176.9 | 166 | 106.8 | 92.3 | 86.4 | 98.8 | 144.6 | 141.7 |
| AKNA | 245.9 | 286 | 278.7 | 283.5 | 230.8 | 398.3 | 230.9 | 486.5 |
| AKR1A1 | 1431.9 | 1952 | 1211.7 | 1372.6 | 1228 | 1762 | 1206 | 1648.2 |
| AKR1A1 | 113.1 | 132.3 | 94 | 85.7 | 84.9 | 90.1 | 111.5 | 133.3 |
| AKR1A1 | 2122.7 | 2390.1 | 815.4 | 1023.1 | 911 | 1212.9 | 1775 | 2298.7 |

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|----------|--------|---------|--------|--------|--------|--------|--------|--------|
| AKR1B1 | 3669.6 | 4663.3 | 2501.7 | 1941.2 | 1525.4 | 2142.7 | 3111.4 | 4645 |
| AKR1B10 | 75.3 | 84.6 | 97.8 | 90.1 | 79.8 | 81.6 | 83.3 | 83.6 |
| AKR1C1 | 77 | 79.7 | 76.6 | 78.8 | 81.6 | 78 | 76.2 | 80.6 |
| AKR1C2 | 431.1 | 649.3 | 333.9 | 262.6 | 198.1 | 270 | 773.7 | 1037.1 |
| AKR1C3 | 113.9 | 135.8 | 110.2 | 111.8 | 93.1 | 116.5 | 163.8 | 215.2 |
| AKR1C4 | 93.7 | 101.8 | 108 | 92.6 | 98.7 | 93.4 | 88.8 | 92.3 |
| AKR1CL1 | 84.7 | 93.7 | 101.2 | 90.6 | 87.8 | 89.9 | 93.6 | 88.1 |
| AKR1CL2 | 74.8 | 95.2 | 93.2 | 86.2 | 75.9 | 74.7 | 80.3 | 88.5 |
| AKR1D1 | 9416.3 | 10981.1 | 3238.9 | 6768.4 | 6568.8 | 4408.4 | 8082.7 | 6817.8 |
| AKR7A2 | 5769.2 | 7523.2 | 3381.4 | 2650.6 | 2260.3 | 2898.7 | 5198 | 5499.6 |
| AKR7A3 | 981 | 1244.1 | 570.5 | 504.1 | 424 | 556.2 | 928.3 | 1831.1 |
| AKT1 | 3318.4 | 4010.2 | 3136.2 | 2480.6 | 1985.6 | 2571.5 | 2778.8 | 3999.2 |
| AKT1 | 1941.1 | 2612.3 | 2359.9 | 1974.3 | 1439.4 | 3188.8 | 1818.3 | 3748 |
| AKT1 | 139.1 | 134.1 | 95.4 | 87 | 71.7 | 98.4 | 128.8 | 150.3 |
| AKT1S1 | 102.1 | 125 | 103.8 | 104.2 | 95.8 | 98 | 91.4 | 127.8 |
| AKT2 | 106.5 | 126.1 | 120.8 | 106.7 | 92.6 | 95.8 | 91 | 133.2 |
| AKT3 | 84.8 | 108.6 | 102.2 | 91.1 | 89.5 | 102.4 | 83 | 111.4 |
| AKT3 | 119.6 | 137.8 | 114.3 | 89.3 | 83.5 | 94.4 | 124.8 | 139.2 |
| AKT3 | 104.2 | 134.4 | 98.1 | 91.1 | 88.5 | 90.7 | 118.1 | 122.1 |
| AKTIP | 362 | 446.3 | 288.6 | 230.1 | 200.4 | 298.7 | 289.9 | 500.4 |
| ALAD | 135 | 131 | 99.5 | 93.1 | 95 | 92.1 | 123.7 | 130 |
| ALAD | 780 | 1067.2 | 547.6 | 533.2 | 490.5 | 720.6 | 575.7 | 612.5 |
| ALAD | 75.4 | 76.6 | 90.2 | 91.6 | 87.5 | 89.2 | 72.8 | 78.6 |
| ALAS1 | 124 | 160.3 | 118.7 | 103 | 95.3 | 114 | 114.5 | 131.9 |
| ALAS1 | 136.7 | 193.8 | 114.7 | 129.9 | 119.2 | 116.7 | 164.7 | 206.3 |
| ALAS1 | 98.3 | 112.6 | 107.9 | 91.4 | 99 | 87 | 90.6 | 112.5 |
| ALAS2 | 85.9 | 101.6 | 98.9 | 99.1 | 93 | 91.7 | 88.8 | 98.5 |
| ALAS2 | 81.4 | 93.3 | 93.5 | 91.3 | 82.3 | 78.2 | 82.1 | 83.2 |
| ALAS2 | 107.5 | 119.3 | 104.4 | 96.4 | 93.5 | 83.5 | 114.9 | 132.4 |
| ALB | 106.1 | 129.6 | 91.4 | 106.6 | 78.6 | 96.2 | 101.6 | 106 |
| ALCAM | 1081 | 1382.1 | 496.8 | 672.7 | 384.1 | 1080 | 844 | 2258.2 |
| ALDH16A1 | 273.4 | 377.4 | 355.6 | 255.1 | 239.9 | 324.3 | 233.4 | 407.4 |
| ALDH18A1 | 632.2 | 883.4 | 405.8 | 368 | 266.3 | 371.6 | 385.9 | 421.8 |
| ALDH1A1 | 101.5 | 122.1 | 103.9 | 92.7 | 83.9 | 99.8 | 87.8 | 102.7 |
| ALDH1A2 | 108.6 | 113.1 | 101.7 | 102 | 85 | 90.5 | 99.6 | 106.7 |
| ALDH1A2 | 175.8 | 211.5 | 111.9 | 104.4 | 108.9 | 112.6 | 174.5 | 188.5 |
| ALDH1A3 | 125.1 | 137.9 | 104.8 | 85.3 | 81.8 | 101.9 | 116.7 | 129.7 |
| ALDH1B1 | 642.4 | 934.8 | 308.1 | 217.6 | 179 | 258.4 | 464 | 713.7 |
| ALDH1L1 | 74.4 | 87.4 | 98.5 | 87.9 | 91.3 | 86.1 | 81.2 | 85.8 |
| ALDH1L2 | 123.1 | 145.6 | 90.6 | 93.5 | 84.9 | 90.6 | 115.7 | 151.8 |
| ALDH2 | 1686.9 | 2111.6 | 1088.2 | 1819.5 | 1517.5 | 2800.5 | 1140.9 | 1569.6 |
| ALDH3A1 | 89.2 | 94 | 88.9 | 96.8 | 85.1 | 97.4 | 99.3 | 103 |
| ALDH3A2 | 144.4 | 241.5 | 88.9 | 104.9 | 92.9 | 113.8 | 146.9 | 177.2 |
| ALDH3A2 | 218.6 | 261.7 | 166.3 | 194.2 | 170.7 | 210.4 | 179.5 | 209.1 |
| ALDH3B1 | 155.9 | 190.7 | 95.9 | 111.7 | 84.4 | 97.8 | 124.2 | 168.9 |
| ALDH3B1 | 603.4 | 701.5 | 512.5 | 677.9 | 509.3 | 610.5 | 521.4 | 1158.5 |
| ALDH3B2 | 87.1 | 114.3 | 97.1 | 92.5 | 91.4 | 97.4 | 95.1 | 117.3 |
| ALDH3B2 | 97.6 | 117.7 | 83.4 | 89.9 | 80.9 | 82.6 | 102.3 | 109.1 |
| ALDH3B2 | 77.9 | 90.3 | 94.1 | 86.7 | 79.6 | 91 | 86 | 82.8 |
| ALDH4A1 | 66.8 | 79.6 | 95.5 | 88.4 | 82.7 | 101.9 | 73 | 92.7 |

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|----------|--------|---------|--------|--------|--------|--------|--------|--------|
| ALDH4A1 | 187.8 | 207.7 | 118.6 | 135 | 117.9 | 131.2 | 168.2 | 171.9 |
| ALDH4A1 | 118.3 | 129.5 | 117.9 | 117.8 | 96.1 | 104.4 | 107.2 | 129 |
| ALDH5A1 | 282.2 | 429 | 259.8 | 311.1 | 240.6 | 404.4 | 193.5 | 336.6 |
| ALDH6A1 | 143.1 | 198.4 | 117.9 | 108.1 | 97.6 | 93.3 | 129.7 | 174.1 |
| ALDH7A1 | 299.3 | 360.4 | 190.5 | 254.7 | 214.3 | 299.2 | 266.8 | 294.7 |
| ALDH8A1 | 111.1 | 136.7 | 97.3 | 106.3 | 106.5 | 99.7 | 103.2 | 129.6 |
| ALDH8A1 | 75.4 | 96.9 | 97.5 | 90.2 | 79.3 | 94.7 | 84.4 | 82.5 |
| ALDH9A1 | 9660.4 | 11625.2 | 6893.7 | 5349.8 | 4268.9 | 5689.1 | 8347.6 | 9525.6 |
| ALDOA | 111.7 | 114.8 | 111.2 | 97.2 | 104.1 | 98.8 | 103.1 | 107.6 |
| ALDOA | 6699.3 | 9412.6 | 4753.9 | 3273.9 | 3051.4 | 1910.6 | 6077.8 | 8206.6 |
| ALDOA | 165.7 | 175.8 | 111.2 | 102.8 | 89.4 | 92.6 | 155 | 162.9 |
| ALDOA | 7122.5 | 9544.6 | 5288.4 | 3963.8 | 2966 | 4663.7 | 6381.9 | 9412.8 |
| ALDOB | 99.9 | 118.1 | 107.7 | 92.6 | 96.1 | 108.3 | 99.8 | 115.8 |
| ALDOC | 706.8 | 976.8 | 503.3 | 447.9 | 480.1 | 492.6 | 648.5 | 583 |
| ALF | 98 | 92.6 | 102.3 | 94.8 | 87.8 | 94.5 | 95.1 | 99.8 |
| ALF | 85.3 | 96 | 82.2 | 86.8 | 72.4 | 80.3 | 84.8 | 93.9 |
| ALG1 | 343.8 | 535.4 | 234.2 | 151.2 | 128 | 121.9 | 345 | 382.5 |
| ALG10 | 134.7 | 147.5 | 109.1 | 112.9 | 99.4 | 116.5 | 115 | 115.4 |
| ALG11 | 215.6 | 341.4 | 119.5 | 175.8 | 135.2 | 118.9 | 257 | 314.5 |
| ALG12 | 118.2 | 134.8 | 122.3 | 118.5 | 130.5 | 117.6 | 117.5 | 125.2 |
| ALG13 | 129.1 | 123.4 | 108.6 | 102.2 | 97.9 | 116.4 | 122.7 | 159.5 |
| ALG14 | 285.4 | 389.7 | 149.2 | 152.4 | 121.4 | 142 | 231.2 | 285.8 |
| ALG2 | 101.2 | 102.7 | 97.7 | 94.5 | 87.9 | 92.3 | 103.7 | 111.3 |
| ALG3 | 2185 | 2716.5 | 1000.2 | 766.9 | 585.8 | 617.2 | 1879.8 | 2050.7 |
| ALG5 | 2281 | 2610.9 | 907 | 770.1 | 543.5 | 773 | 2565.8 | 4329.7 |
| ALG6 | 546.8 | 706.4 | 380.7 | 336.7 | 252.3 | 452.9 | 425.9 | 983 |
| ALG8 | 2295.4 | 2899 | 1061.6 | 809.4 | 510 | 979.4 | 2086 | 3231.6 |
| ALG8 | 83.8 | 94.1 | 105.2 | 92.2 | 99.5 | 94.8 | 88 | 92.7 |
| ALG8 | 3238.5 | 4620.3 | 2036.6 | 1594.9 | 1012.4 | 1677.9 | 3538.6 | 4046.8 |
| ALG9 | 656.1 | 871.4 | 355.4 | 270.1 | 194.4 | 252 | 530.8 | 688.7 |
| ALK | 101.9 | 116.7 | 101.4 | 99.8 | 87.4 | 88.2 | 104.7 | 100.2 |
| ALKBH | 442.9 | 650.3 | 312.5 | 232.2 | 196.5 | 346.8 | 399 | 601.9 |
| ALKBH1 | 168.3 | 199.7 | 133.7 | 114.6 | 109.3 | 110.8 | 139 | 163.2 |
| ALKBH1 | 488.7 | 689.7 | 338.3 | 254.8 | 217.4 | 354.4 | 426 | 644.6 |
| ALKBH2 | 362.9 | 438.2 | 331.1 | 196.6 | 175.7 | 233.9 | 249.7 | 266 |
| ALKBH3 | 824.4 | 1031.3 | 680.9 | 736.1 | 561.2 | 1008.1 | 611.7 | 958.9 |
| ALKBH4 | 198.1 | 262.8 | 156.7 | 147.9 | 148.3 | 144.5 | 196.5 | 204.6 |
| ALKBH5 | 3124 | 3746.3 | 2523.6 | 2850.1 | 2327.9 | 3279.2 | 2427.7 | 3676.7 |
| ALKBH6 | 481.1 | 615.8 | 298.6 | 270.8 | 243.6 | 259.4 | 453.1 | 564.5 |
| ALKBH7 | 384.3 | 492.9 | 314.5 | 274.6 | 230.3 | 317.7 | 405 | 424.5 |
| ALKBH8 | 346.1 | 410.7 | 177 | 187.7 | 147.8 | 151 | 243.8 | 334.9 |
| ALLC | 100.8 | 110.7 | 94.1 | 92.9 | 85 | 92.6 | 97 | 110.7 |
| ALLC | 91.6 | 88.6 | 83.8 | 82.1 | 81 | 83.5 | 84.2 | 96.3 |
| ALLC | 98.9 | 107.4 | 114.1 | 96.6 | 102.6 | 94.3 | 90.5 | 92.4 |
| ALMS1 | 124.8 | 158.3 | 143.1 | 160.9 | 160 | 195.2 | 115.1 | 133.2 |
| ALOX12 | 86.3 | 86.8 | 88.6 | 84.8 | 75.7 | 86.8 | 88.1 | 80.8 |
| ALOX12B | 91.5 | 91.3 | 94.5 | 91.4 | 94.4 | 88.2 | 88.7 | 98.1 |
| ALOX12P2 | 78.3 | 76 | 82.8 | 87.6 | 83.1 | 88.1 | 76.1 | 80.4 |
| ALOX15 | 108.9 | 126.6 | 107.9 | 109.8 | 104.1 | 106.6 | 110.7 | 114 |
| ALOX15 | 120 | 146.3 | 85.4 | 86.7 | 76.8 | 97.4 | 127.5 | 136.3 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| ALOX15B | 105.7 | 125.9 | 92.7 | 90.9 | 87.4 | 86 | 106.8 | 122.8 |
| ALOX15B | 88.6 | 88.3 | 98.2 | 81 | 86.4 | 82.7 | 86.4 | 90.2 |
| ALOX15B | 107.8 | 131 | 116.6 | 102.4 | 96.6 | 88.3 | 104.4 | 117.6 |
| ALOX5 | 1291.5 | 1538 | 858.7 | 1522.7 | 883.3 | 1631.5 | 687.3 | 620.4 |
| ALOX5 | 105.2 | 110.5 | 99.2 | 106.5 | 97.6 | 104.7 | 105.1 | 114.6 |
| ALOX5AP | 3353.2 | 4210.4 | 2347.1 | 3275.5 | 2058.1 | 2258.2 | 3630.5 | 4924.4 |
| ALOXE3 | 87.9 | 107 | 98.4 | 93 | 92.8 | 99.8 | 89.3 | 97 |
| ALPI | 107.1 | 127.9 | 103.4 | 94.7 | 94.5 | 104.1 | 118.5 | 119.5 |
| ALPK1 | 182.8 | 238.2 | 193.4 | 207.7 | 177 | 245.7 | 161.6 | 245.3 |
| ALPK3 | 83.3 | 95.4 | 88.1 | 88 | 84.9 | 93.6 | 94.5 | 92.2 |
| ALPL | 106.3 | 109.2 | 99.8 | 100 | 87.7 | 89.9 | 100.3 | 112 |
| ALPP | 2146.6 | 2196.5 | 1017.3 | 1840.3 | 2090 | 1467.3 | 1970.8 | 2267.3 |
| ALPPL2 | 310 | 365.9 | 146.8 | 167.1 | 138.6 | 178.6 | 220.8 | 284.8 |
| ALS2 | 355.4 | 464.2 | 288.7 | 405.4 | 328.4 | 459.5 | 418.4 | 555.7 |
| ALS2CL | 103.9 | 121.9 | 99.9 | 96.9 | 87.4 | 104.2 | 104.3 | 122.6 |
| ALS2CL | 88 | 88.3 | 108.8 | 80.2 | 90.8 | 89.2 | 79.5 | 97.8 |
| ALS2CL | 86.8 | 102 | 98.2 | 78.4 | 78 | 84.9 | 83.8 | 98.8 |
| ALS2CR11 | 80.6 | 86.1 | 96.7 | 99.8 | 89 | 90.6 | 76.1 | 89.3 |
| ALS2CR12 | 108.8 | 115.7 | 95 | 80.4 | 79.4 | 84.3 | 106.9 | 100.6 |
| ALS2CR13 | 1071 | 1472.7 | 695 | 1350.8 | 923.7 | 1571.5 | 814.6 | 1112.3 |
| ALS2CR15 | 118 | 152.4 | 128.6 | 111.7 | 99.3 | 120 | 105.5 | 155.4 |
| ALS2CR16 | 91.6 | 91.6 | 92.4 | 96.7 | 94.8 | 96 | 90.5 | 94.3 |
| ALS2CR19 | 91.1 | 93.1 | 99.7 | 87.4 | 85.1 | 83.5 | 82.3 | 88.1 |
| ALS2CR2 | 659.4 | 813.3 | 448.6 | 567.6 | 432.7 | 655.6 | 488.4 | 706.9 |
| ALS2CR4 | 531.9 | 695.6 | 444.1 | 393 | 281.1 | 467.6 | 398.2 | 599.5 |
| ALS2CR7 | 103.9 | 109.1 | 93.3 | 84.5 | 82.2 | 91.1 | 100.9 | 112.6 |
| ALS2CR8 | 112.4 | 137.5 | 121.8 | 93.7 | 92.2 | 109.4 | 97.3 | 121.2 |
| ALX3 | 91.7 | 106.9 | 81.9 | 83.5 | 80.1 | 87.6 | 97.9 | 100.7 |
| ALX4 | 103.3 | 112.6 | 89 | 86.4 | 73.5 | 77.9 | 85.8 | 107.5 |
| AMAC1 | 122.4 | 159.1 | 95.7 | 84 | 79.3 | 89.8 | 106.9 | 130.5 |
| AMAC1L2 | 76.5 | 83.1 | 106.8 | 107.1 | 97.6 | 88.1 | 81.9 | 80.5 |
| AMACR | 191.7 | 230.4 | 141.8 | 122.1 | 132.9 | 136 | 154.8 | 169.7 |
| AMACR | 148.3 | 182.1 | 136.3 | 143.1 | 123.3 | 159.4 | 133.9 | 150.8 |
| AMBN | 94.1 | 114.2 | 103.4 | 98.4 | 95.6 | 99.6 | 114.6 | 122.6 |
| AMBN | 86.3 | 96.8 | 96.6 | 81.8 | 86.2 | 85 | 88.8 | 90.3 |
| AMBP | 155.2 | 194.2 | 117.3 | 108.9 | 100.6 | 110 | 157.5 | 163.3 |
| AMD1 | 4504.4 | 5052.8 | 2769.3 | 2223.4 | 1732.2 | 2420.7 | 2920.3 | 4570 |
| AMD1 | 2098 | 2798.4 | 715.4 | 678.9 | 498 | 488.1 | 1167.2 | 1608.1 |
| AMDHD1 | 112.6 | 125.9 | 104.2 | 105.2 | 96.6 | 112.1 | 105.6 | 116.8 |
| AMDHD2 | 118.6 | 147.2 | 137.9 | 100 | 110.8 | 141.6 | 92.6 | 142.2 |
| AMELX | 78.7 | 77 | 95.3 | 90.2 | 96.5 | 98.5 | 81.1 | 82.1 |
| AMELY | 92.7 | 113.4 | 112.2 | 102.3 | 102.4 | 95 | 102.8 | 106.9 |
| AMFR | 336.9 | 433.2 | 421.3 | 330.2 | 262.3 | 249.7 | 266.8 | 563.4 |
| AMFR | 156 | 202.9 | 119.1 | 107.1 | 98.5 | 109.5 | 147.3 | 167.9 |
| AMH | 90.1 | 106.3 | 104.7 | 89.1 | 77.2 | 88.6 | 92.4 | 122.3 |
| AMHR2 | 77.2 | 94.7 | 86.2 | 92.9 | 91.9 | 81 | 84.7 | 90 |
| AMICA1 | 110.9 | 140.2 | 116.8 | 155.5 | 173.5 | 183.1 | 104.8 | 129.2 |
| AMID | 99.5 | 108.5 | 111.6 | 96.2 | 98.4 | 115.2 | 120.6 | 205.1 |
| AMIGO1 | 148.6 | 175.1 | 93.7 | 88.8 | 95.6 | 94.1 | 125.4 | 151.4 |
| AMIGO2 | 149.2 | 161.2 | 103.6 | 98.9 | 98.7 | 98.2 | 143.4 | 158.4 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| AMIGO3 | 115.6 | 137 | 90.6 | 85.3 | 98.8 | 97.9 | 113.1 | 125.7 |
| AMMECR1 | 135.7 | 194.7 | 95.3 | 105.8 | 107 | 107 | 124 | 165.2 |
| AMMECR1 | 634.1 | 683.2 | 244.1 | 285.5 | 181 | 307.5 | 578.3 | 745.3 |
| AMMECR1 | 265.4 | 368.7 | 201.8 | 194.7 | 169.8 | 253.4 | 236.6 | 318.9 |
| AMN | 96.5 | 106.7 | 101.3 | 99.6 | 91.5 | 97.3 | 92.6 | 100.2 |
| AMOT | 126 | 148.8 | 124.5 | 111.6 | 108.9 | 115 | 118.4 | 127.3 |
| AMOTL2 | 115.5 | 160 | 87.3 | 85.9 | 81.9 | 98.7 | 121.5 | 142.9 |
| AMPD1 | 87.2 | 101.9 | 87.3 | 82.6 | 88.4 | 80.1 | 92.6 | 96.1 |
| AMPD2 | 92.4 | 113.1 | 90.4 | 92 | 93.6 | 94.4 | 90.2 | 111.1 |
| AMPD2 | 109.1 | 110.8 | 82.3 | 78.4 | 81.7 | 86.1 | 107.2 | 120.1 |
| AMPD2 | 110.4 | 124.7 | 85.9 | 90 | 93.1 | 83.5 | 99.3 | 123.5 |
| AMPD3 | 120.4 | 145.2 | 111 | 106.4 | 97.5 | 108.2 | 110.4 | 118.5 |
| AMPD3 | 115.4 | 135.3 | 87.5 | 86.1 | 80.3 | 79.8 | 106 | 106 |
| AMPD3 | 79.2 | 87.6 | 89.7 | 83 | 83.5 | 81.1 | 87.7 | 88.8 |
| AMPD3 | 90.9 | 100.2 | 105.1 | 91.6 | 96.6 | 88.7 | 90.2 | 86.9 |
| AMPH | 99.7 | 127.1 | 102.4 | 99.4 | 91.6 | 95 | 109.7 | 123.7 |
| AMPH | 134.1 | 149.3 | 87.4 | 98.6 | 81.7 | 94.7 | 124.2 | 152.8 |
| AMT | 218.7 | 196.1 | 147.4 | 134.4 | 131.2 | 183.8 | 136.8 | 144.8 |
| AMY1A | 75.3 | 76.7 | 91.3 | 91.6 | 78.8 | 82.3 | 75.7 | 80.9 |
| AMY1A | 883.2 | 955.9 | 456.8 | 591.6 | 380.8 | 383.1 | 655.5 | 1591.1 |
| AMY1A | 71.7 | 82.5 | 91 | 80.5 | 80.7 | 89.4 | 73.8 | 78.9 |
| AMY1B | 82.1 | 92.3 | 85.4 | 86.2 | 75 | 75.9 | 77.4 | 89.4 |
| AMY2A | 90.7 | 105.8 | 102.1 | 89.4 | 91.1 | 90.3 | 83.7 | 85.1 |
| AMY2B | 103.9 | 110.8 | 102.6 | 95.7 | 103.4 | 107.6 | 112.4 | 124.4 |
| AMZ1 | 93.6 | 95.8 | 90 | 93.5 | 85.3 | 88.2 | 99.1 | 106.6 |
| AMZ2 | 101.8 | 115.6 | 106.8 | 98.6 | 92.9 | 101.9 | 103.5 | 110.1 |
| AMZ2 | 1504.6 | 2189.1 | 1085.5 | 1113.2 | 922.6 | 1738.2 | 1128 | 1741.7 |
| ANAPC1 | 1262.4 | 1903.3 | 1369.3 | 1608.1 | 1237.9 | 1902.6 | 1093.2 | 1144.3 |
| ANAPC10 | 1096.4 | 1263.2 | 752.5 | 658.6 | 479.8 | 705.8 | 1033.3 | 1721.2 |
| ANAPC11 | 1173.7 | 1586.4 | 1032.7 | 834.2 | 639.3 | 783.9 | 1074.5 | 1251.5 |
| ANAPC11 | 92.4 | 105.6 | 92.5 | 84.3 | 83.6 | 93.1 | 102.3 | 98.4 |
| ANAPC11 | 1568.8 | 1961.8 | 917.1 | 927.1 | 797 | 938.4 | 1939.7 | 1746.7 |
| ANAPC13 | 5024.8 | 6476.2 | 2458.8 | 2863 | 2331.5 | 3021.9 | 4582.9 | 5991.7 |
| ANAPC2 | 117.3 | 142.3 | 107.5 | 103.4 | 109.4 | 89.3 | 111.4 | 109.4 |
| ANAPC2 | 134.1 | 178.2 | 150.1 | 117.5 | 121.5 | 185.7 | 109.3 | 148.8 |
| ANAPC4 | 1355.9 | 1651.6 | 836.1 | 809.7 | 668 | 1139.2 | 863.4 | 1083.4 |
| ANAPC5 | 3908 | 4186.8 | 2370.6 | 2678.8 | 2401.8 | 3270.2 | 2815.8 | 4440.2 |
| ANAPC7 | 377 | 486.7 | 220.5 | 147.1 | 136.2 | 170.7 | 248.5 | 316.6 |
| ANG | 151.4 | 171.3 | 124.5 | 126.2 | 133.8 | 135.4 | 160.8 | 168.5 |
| ANGEL1 | 174.8 | 208.5 | 190.5 | 189.8 | 158.2 | 219.7 | 147.5 | 239.2 |
| ANGEL2 | 850.7 | 1095.1 | 749.2 | 947.6 | 775.1 | 1098.9 | 848.9 | 1363.4 |
| ANGPT1 | 99 | 110 | 110.8 | 100.5 | 95.1 | 102.7 | 97.1 | 107.9 |
| ANGPT2 | 100.6 | 111.5 | 104.8 | 92 | 97.1 | 90.2 | 102.2 | 103.5 |
| ANGPT4 | 79.7 | 91.1 | 90.1 | 89 | 77.8 | 86.9 | 82.4 | 91.9 |
| ANGPTL1 | 74.9 | 92.3 | 100.4 | 84.4 | 79.1 | 83.8 | 85.1 | 86.2 |
| ANGPTL2 | 131.4 | 133 | 107.7 | 91.9 | 89.6 | 98.8 | 120.1 | 133.4 |
| ANGPTL3 | 75.3 | 79.7 | 82.9 | 73.8 | 82.2 | 85.6 | 73.7 | 93 |
| ANGPTL4 | 138.7 | 138.5 | 96.8 | 89.8 | 84.3 | 97 | 124.3 | 146.9 |
| ANGPTL4 | 133.5 | 150.4 | 87 | 94.2 | 81.2 | 86.6 | 121.5 | 139.9 |
| ANGPTL4 | 167.4 | 210.4 | 104 | 100 | 90.5 | 95.5 | 147.2 | 187.1 |

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|----------|-------|--------|-------|-------|-------|-------|-------|--------|
| ANGPTL5 | 81.6 | 88.4 | 98.5 | 87.9 | 84.1 | 79.3 | 83.4 | 90.9 |
| ANGPTL6 | 96.9 | 94.9 | 100.8 | 126 | 115.5 | 149 | 88.8 | 101.6 |
| ANGPTL7 | 87.7 | 89.3 | 98.9 | 100.3 | 97.1 | 100.2 | 95.2 | 100.8 |
| ANK1 | 94.4 | 103 | 95.6 | 93.7 | 95.6 | 97.3 | 94.4 | 104.9 |
| ANK1 | 119.4 | 124.4 | 88.1 | 85.9 | 83.1 | 77.1 | 112.1 | 140.5 |
| ANK2 | 81 | 93.4 | 93.2 | 89.2 | 84.8 | 86.1 | 85.5 | 110.8 |
| ANK2 | 99.3 | 111.2 | 101.5 | 89.5 | 94.9 | 94.4 | 98.1 | 114.4 |
| ANK3 | 105.2 | 114.1 | 110.6 | 100 | 94 | 113.8 | 97.8 | 108.4 |
| ANK3 | 115.8 | 124.5 | 106.7 | 99 | 94.1 | 110.4 | 101.4 | 97.2 |
| ANK3 | 124 | 145 | 91.6 | 80.3 | 83.2 | 87.3 | 111.1 | 131.4 |
| ANKAR | 116.6 | 123.2 | 96.2 | 98.1 | 90.1 | 99.6 | 98.7 | 122.9 |
| ANKDD1A | 266 | 336.3 | 214.2 | 138.8 | 140.9 | 173.4 | 268.2 | 300.3 |
| ANKFN1 | 93.8 | 105.5 | 91.3 | 81.1 | 76.8 | 80 | 104.4 | 105 |
| ANKFY1 | 323.3 | 485.7 | 188.8 | 285.9 | 215.7 | 310.3 | 294.4 | 318.9 |
| ANKFY1 | 144.2 | 187.7 | 138.5 | 160.7 | 160.4 | 191.7 | 146.5 | 181.4 |
| ANKFY1 | 107 | 126.6 | 92.8 | 100.6 | 118.1 | 98 | 98.6 | 106.2 |
| ANKH | 121.2 | 122.7 | 96.5 | 80 | 83 | 80.8 | 116.9 | 141.6 |
| ANKHD1 | 113.1 | 156.5 | 118.1 | 117.4 | 114.3 | 95.3 | 105.8 | 123.2 |
| ANKHD1 | 84.5 | 94.9 | 80.7 | 79.9 | 85.4 | 91.8 | 85.6 | 85 |
| ANKK1 | 75 | 91.4 | 94 | 81.1 | 78.4 | 79.5 | 79.8 | 82 |
| ANKMY1 | 338.8 | 406.5 | 276 | 347.3 | 360.2 | 408.4 | 263.8 | 254.9 |
| ANKMY1 | 96.9 | 126.4 | 91.6 | 91.1 | 87.3 | 90.8 | 92.2 | 102.6 |
| ANKMY1 | 80.3 | 89.1 | 105.3 | 92.7 | 90 | 99.1 | 80.6 | 88.6 |
| ANKMY2 | 785 | 878.3 | 381.5 | 418.1 | 307 | 530.9 | 604 | 1022.6 |
| ANKRA2 | 365.2 | 373.8 | 243.5 | 395.8 | 359.2 | 560.1 | 305.2 | 512.3 |
| ANKRD1 | 85.9 | 92.7 | 101 | 96.6 | 84.9 | 92.2 | 87.6 | 93.9 |
| ANKRD10 | 672 | 907.2 | 344.2 | 294.9 | 270.3 | 322.5 | 648 | 852.2 |
| ANKRD11 | 527.2 | 650.6 | 371.7 | 592 | 525.4 | 731.4 | 565.6 | 676.9 |
| ANKRD12 | 349.3 | 473.1 | 191.9 | 418.9 | 435.3 | 767.4 | 429.9 | 574 |
| ANKRD13 | 828.5 | 1009.9 | 504 | 715.1 | 609.5 | 883.3 | 757.8 | 1040.5 |
| ANKRD13B | 94.6 | 93.8 | 97.4 | 106.5 | 105.2 | 106.5 | 92.4 | 105.4 |
| ANKRD13C | 318.3 | 350.2 | 217.9 | 236.1 | 184.9 | 303.7 | 249.6 | 414.3 |
| ANKRD13D | 126.4 | 132.2 | 100.2 | 97.2 | 84 | 97 | 124.7 | 155.2 |
| ANKRD15 | 83.6 | 89.9 | 93.1 | 93.2 | 91.4 | 88.6 | 82 | 83.3 |
| ANKRD15 | 78.2 | 86.9 | 84.8 | 78.7 | 79.2 | 87 | 81.9 | 90.8 |
| ANKRD15 | 245.8 | 333.8 | 356 | 356.4 | 230.8 | 493.2 | 230.2 | 514.7 |
| ANKRD16 | 429.2 | 568.4 | 224.2 | 160.5 | 136.1 | 165.9 | 316.3 | 326.8 |
| ANKRD16 | 121 | 135.3 | 89.9 | 95.4 | 75 | 89.2 | 108.9 | 140.7 |
| ANKRD16 | 178.8 | 223.6 | 138.9 | 125.5 | 106.6 | 138.9 | 177.8 | 180.1 |
| ANKRD17 | 165.1 | 189.8 | 121.7 | 122 | 112.4 | 141.4 | 149.7 | 189.9 |
| ANKRD17 | 383.4 | 543.1 | 204.8 | 298.9 | 212.7 | 389.5 | 390.9 | 596.1 |
| ANKRD17 | 577.9 | 934.9 | 401.4 | 497.5 | 388.9 | 724.2 | 573.5 | 1075.9 |
| ANKRD19 | 95.6 | 104.3 | 94.3 | 98 | 82.9 | 88.7 | 96.9 | 104.6 |
| ANKRD2 | 78 | 74.7 | 95.4 | 92.3 | 93.8 | 93.5 | 74.1 | 80.2 |
| ANKRD20A | 193.1 | 251.2 | 135.5 | 178.5 | 177.7 | 191.7 | 159.7 | 236.7 |
| ANKRD20A | 126.1 | 134.6 | 105.4 | 91.1 | 92.1 | 95.7 | 103.9 | 118.1 |
| ANKRD20A | 99.6 | 111.7 | 95.1 | 88.9 | 90.3 | 96.5 | 108.3 | 114.4 |
| ANKRD20B | 75.6 | 79.7 | 87.8 | 90.1 | 80.8 | 88.1 | 73.9 | 72.5 |
| ANKRD20B | 76 | 83.3 | 97.8 | 85.1 | 76.8 | 86.4 | 82.9 | 86.9 |
| ANKRD21 | 83.8 | 94.3 | 91 | 87.5 | 84.6 | 81.7 | 87.3 | 89.8 |

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|----------|--------|--------|-------|-------|-------|-------|--------|--------|
| ANKRD22 | 115.9 | 146.7 | 106.9 | 82.3 | 74.5 | 91.9 | 103.9 | 116.6 |
| ANKRD23 | 114.4 | 138.3 | 106 | 96.1 | 85.7 | 109.3 | 120.8 | 137 |
| ANKRD24 | 86.5 | 103.6 | 87.8 | 77.8 | 78.9 | 86.1 | 79.2 | 94.7 |
| ANKRD25 | 229.1 | 348.5 | 230.3 | 170.8 | 169.4 | 165.4 | 191 | 279.5 |
| ANKRD26 | 148.8 | 168.7 | 145 | 121.5 | 126.7 | 190 | 130.3 | 153.1 |
| ANKRD27 | 218.4 | 307.7 | 152.7 | 133.5 | 118.8 | 185.8 | 208.1 | 281.4 |
| ANKRD28 | 194.9 | 206.7 | 155.8 | 221.7 | 156.9 | 219 | 210.4 | 400.2 |
| ANKRD29 | 118.1 | 120.1 | 98 | 93 | 87.3 | 102.7 | 97.9 | 116.6 |
| ANKRD30A | 88 | 85.4 | 91.8 | 87.4 | 92.7 | 88.3 | 71.9 | 80.9 |
| ANKRD30A | 86.5 | 101.2 | 89.5 | 83 | 79.1 | 90.8 | 83.9 | 91 |
| ANKRD30B | 76.3 | 91.2 | 92.9 | 86.5 | 83.5 | 89.2 | 82.3 | 87.5 |
| ANKRD32 | 429.3 | 494.4 | 198.2 | 217.6 | 177.6 | 204.1 | 336.3 | 484.1 |
| ANKRD33 | 294.2 | 337.6 | 217.5 | 242.1 | 209.6 | 251.8 | 313.1 | 284 |
| ANKRD34 | 120.6 | 122.2 | 114.6 | 82.9 | 97 | 98.7 | 117.6 | 115.6 |
| ANKRD35 | 158.3 | 165.3 | 100.5 | 89.1 | 84.1 | 92.6 | 159.8 | 172.5 |
| ANKRD36 | 120.4 | 134 | 100 | 99.5 | 101.8 | 101.8 | 99.4 | 118.9 |
| ANKRD36 | 94 | 101.2 | 88.6 | 81.1 | 80 | 81.3 | 85.4 | 97.8 |
| ANKRD36 | 225.8 | 233.4 | 107.5 | 127.1 | 130.7 | 104 | 114.1 | 179.9 |
| ANKRD37 | 131.5 | 177.1 | 132.4 | 190.8 | 186.5 | 348.7 | 119.4 | 179.6 |
| ANKRD38 | 143.3 | 154.4 | 100.7 | 111 | 96.1 | 112.6 | 109.7 | 119.3 |
| ANKRD39 | 439.9 | 530.9 | 377.5 | 243.4 | 215.6 | 252.8 | 401.9 | 616.4 |
| ANKRD40 | 177.5 | 205.7 | 108.6 | 86.4 | 86 | 96.7 | 173.8 | 195.5 |
| ANKRD41 | 178.3 | 198.4 | 134.3 | 122.2 | 112.7 | 137.7 | 135.6 | 159 |
| ANKRD42 | 83.9 | 93.9 | 94.2 | 87.3 | 83.2 | 93.9 | 87.3 | 91.1 |
| ANKRD43 | 89.2 | 114.2 | 98.8 | 93 | 84 | 85.9 | 98.2 | 105 |
| ANKRD44 | 149.4 | 175.7 | 107.1 | 106.2 | 123.5 | 101.3 | 140.5 | 183 |
| ANKRD45 | 104.9 | 117.2 | 99 | 90.8 | 97.2 | 81.2 | 100.7 | 102.9 |
| ANKRD46 | 932 | 1099.4 | 609.7 | 491.5 | 347 | 645.3 | 786.8 | 1441.3 |
| ANKRD47 | 113.5 | 140.8 | 108.1 | 101.7 | 96.5 | 103.6 | 125.5 | 119.7 |
| ANKRD49 | 791.7 | 1020.1 | 500.6 | 431.7 | 369.2 | 764.3 | 549.2 | 987.1 |
| ANKRD5 | 99.9 | 92.6 | 90.4 | 85.4 | 83 | 88.4 | 95 | 88.4 |
| ANKRD5 | 73.9 | 88.4 | 88 | 85.1 | 86.9 | 81.3 | 77.7 | 80.8 |
| ANKRD5 | 86.9 | 106.3 | 89.5 | 82.6 | 81.8 | 92.8 | 88 | 96.5 |
| ANKRD50 | 377.9 | 456.4 | 261.4 | 362 | 303.2 | 522.4 | 349.5 | 386.6 |
| ANKRD55 | 201.6 | 259.7 | 141.7 | 160.4 | 143.3 | 184.2 | 132.4 | 139.7 |
| ANKRD56 | 85.4 | 92.9 | 94.6 | 82 | 82.4 | 81.3 | 79.1 | 89.7 |
| ANKRD6 | 185.9 | 244.9 | 189.8 | 197.6 | 157.9 | 227.8 | 158.3 | 191.1 |
| ANKRD7 | 105.8 | 139.9 | 111.7 | 111 | 102 | 99.3 | 107.2 | 118.5 |
| ANKRD7 | 96 | 107.5 | 93.3 | 84.3 | 95.4 | 90.2 | 105.7 | 115.6 |
| ANKRD9 | 1316.3 | 1584 | 838.7 | 627.7 | 497.3 | 609.7 | 1085.1 | 1218 |
| ANKS1A | 534.5 | 682.3 | 485.9 | 589.7 | 487.5 | 683.1 | 489 | 628.1 |
| ANKS1B | 77.3 | 95.2 | 77.6 | 80 | 71.8 | 76.2 | 86.2 | 86.2 |
| ANKS1B | 80.6 | 86.5 | 91.9 | 81.5 | 73.6 | 79.3 | 81.9 | 88.7 |
| ANKS1B | 95.7 | 98.1 | 95.3 | 89.7 | 93.8 | 93.8 | 85.3 | 91 |
| ANKS3 | 113.3 | 128.5 | 138.6 | 124 | 110.5 | 132.8 | 113 | 137.4 |
| ANKS4B | 106.1 | 137 | 87.8 | 86.6 | 80.7 | 83 | 115.2 | 131.2 |
| ANKS6 | 99 | 101 | 87.7 | 83.8 | 87.4 | 90.7 | 91.2 | 100.1 |
| ANKZF1 | 229.5 | 299.3 | 217.1 | 174.1 | 178.1 | 228 | 188.3 | 274.3 |
| ANKZF1 | 98.5 | 118.3 | 97.5 | 98.9 | 94.6 | 90.7 | 101.3 | 102.4 |
| ANKZF1 | 125.6 | 140.5 | 113 | 100.9 | 95.6 | 113.2 | 119 | 144 |

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|---------|--------|---------|--------|---------|--------|---------|---------|---------|
| ANLN | 742.7 | 881.9 | 351.7 | 329.6 | 281.5 | 518.9 | 543.8 | 942.4 |
| ANP32A | 313.7 | 368.1 | 122.6 | 110.4 | 102.2 | 113 | 260.9 | 423.7 |
| ANP32B | 19793 | 24409.3 | 15059 | 11773.6 | 8736.1 | 14666.3 | 18818.9 | 22848.6 |
| ANP32C | 91.9 | 94.4 | 93 | 93.9 | 86.6 | 109.6 | 80.2 | 83.6 |
| ANP32D | 85.4 | 107.3 | 87.5 | 78.5 | 72 | 80 | 90.7 | 110.6 |
| ANP32E | 100.2 | 119.7 | 94.4 | 85.2 | 83.2 | 95.5 | 88.9 | 121.9 |
| ANPEP | 366.4 | 503.6 | 550.8 | 768.6 | 670.4 | 761.1 | 362.5 | 638.4 |
| ANTXR1 | 346.6 | 396.9 | 218.4 | 322.6 | 227.1 | 369.8 | 267.7 | 327.4 |
| ANTXR1 | 179.4 | 213 | 130.6 | 115.7 | 121.5 | 120.7 | 160.5 | 195 |
| ANTXR1 | 105.2 | 115.8 | 105.8 | 95.4 | 91.7 | 112.4 | 101.2 | 119.5 |
| ANTXR2 | 295.2 | 423.5 | 229.4 | 218.7 | 183 | 331.6 | 289.7 | 460.4 |
| ANUBL1 | 83.7 | 106 | 93.1 | 85.9 | 89.2 | 92 | 90.1 | 93.5 |
| ANXA1 | 4145.5 | 4613.4 | 4042.6 | 4676 | 2739.9 | 5695 | 4620 | 10943.7 |
| ANXA10 | 85.1 | 109.6 | 87.6 | 81.3 | 83.1 | 86.4 | 86.3 | 99.7 |
| ANXA11 | 360.6 | 439.7 | 195.8 | 174 | 180.1 | 179.1 | 276.9 | 405.8 |
| ANXA11 | 669.7 | 955.1 | 476.5 | 405.1 | 343.7 | 363.9 | 540.1 | 671 |
| ANXA11 | 141.1 | 165.8 | 104.2 | 99.4 | 85.3 | 91.4 | 143.9 | 166.5 |
| ANXA13 | 83.5 | 90.6 | 87.7 | 80.9 | 79 | 88.4 | 79.4 | 93 |
| ANXA13 | 82.9 | 93.9 | 97.4 | 93.2 | 85.1 | 92.4 | 79.3 | 83.3 |
| ANXA13 | 98.2 | 109.5 | 88.2 | 92.6 | 81.2 | 87.6 | 98.2 | 101.4 |
| ANXA2 | 1207.7 | 1580.7 | 629.8 | 678 | 506.9 | 628.6 | 1169.9 | 1435.3 |
| ANXA2 | 231.9 | 271 | 211.9 | 210.7 | 163.6 | 202.5 | 294.3 | 406 |
| ANXA2 | 6240.7 | 7931.1 | 4712.4 | 4845.4 | 4180 | 6937 | 7318.3 | 10177.5 |
| ANXA2P1 | 942.6 | 1149 | 576.4 | 920.1 | 575.6 | 1218.7 | 1510.4 | 3091.8 |
| ANXA3 | 98 | 112.9 | 87.8 | 77.5 | 71.9 | 70 | 83.7 | 124.2 |
| ANXA4 | 252.7 | 305.9 | 132.7 | 159.2 | 133.7 | 182.6 | 226.1 | 510.6 |
| ANXA5 | 3494.7 | 4808.3 | 2769.9 | 2751.7 | 2512.3 | 3830.1 | 3113.1 | 3700.3 |
| ANXA6 | 160.9 | 197.3 | 138.3 | 126.8 | 130.8 | 151.6 | 151.5 | 209.8 |
| ANXA6 | 272.5 | 352.2 | 221.5 | 218.8 | 189.1 | 259.9 | 278.6 | 310.6 |
| ANXA7 | 83.7 | 104.4 | 87.1 | 88.5 | 79.6 | 86.5 | 79.7 | 91.2 |
| ANXA7 | 2025.3 | 2334.5 | 1282.4 | 1112.6 | 854.6 | 1380.9 | 2273.5 | 3447.3 |
| ANXA8 | 105.1 | 110.7 | 117.3 | 112.7 | 104.4 | 107.5 | 106.2 | 107.7 |
| ANXA8L1 | 182.8 | 230.5 | 121.8 | 113.4 | 99.6 | 109.1 | 129.1 | 157.1 |
| ANXA9 | 91.3 | 99.7 | 91.4 | 92.2 | 83.7 | 90.4 | 93.5 | 100.3 |
| AOAH | 118.2 | 133.4 | 107.7 | 111.1 | 116.9 | 137.2 | 107.1 | 118.9 |
| AOC2 | 93.4 | 126.6 | 114.3 | 102.6 | 92.9 | 105.4 | 105.6 | 93.3 |
| AOC2 | 99.4 | 106 | 112.7 | 92.2 | 77.5 | 96.2 | 99.9 | 108.8 |
| AOC2 | 79.1 | 84.6 | 102.8 | 82.7 | 88.3 | 86.3 | 86.7 | 86.3 |
| AOC3 | 124.8 | 152.4 | 102.4 | 88.9 | 78 | 75 | 100.9 | 142.5 |
| AOF1 | 86.7 | 105.5 | 89.5 | 82.3 | 89 | 85.8 | 91.1 | 100.3 |
| AOF2 | 1097.1 | 1467.6 | 885.9 | 1079.3 | 889.9 | 1432.6 | 794.8 | 1076.7 |
| AOX1 | 73.6 | 94.7 | 87.1 | 85.8 | 76.1 | 83.1 | 83.4 | 90.1 |
| AP1B1 | 100.1 | 111 | 120.8 | 116.4 | 113.2 | 167.2 | 95.2 | 128 |
| AP1B1 | 739.2 | 901.2 | 581.7 | 656.1 | 480.7 | 565.7 | 562.5 | 551.9 |
| AP1G1 | 462.1 | 765.1 | 361.4 | 408.6 | 263.3 | 461.1 | 464 | 586.8 |
| AP1G2 | 100 | 89.1 | 89.4 | 77.3 | 81.4 | 75.4 | 92.3 | 101.9 |
| AP1G2 | 255.8 | 338.9 | 241 | 178.1 | 176.8 | 239 | 185 | 328 |
| AP1GBP1 | 104.1 | 121.1 | 102.7 | 92.9 | 94.6 | 98.4 | 110.6 | 115.7 |
| AP1GBP1 | 100 | 143.8 | 89.8 | 94.2 | 82.5 | 94.2 | 118.6 | 126.8 |
| AP1M1 | 2301.5 | 2442.9 | 1706.2 | 1235.5 | 1031.1 | 949.5 | 1544 | 1534.8 |

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| AP1M2 | 143.3 | 158.1 | 102.8 | 99.8 | 81.8 | 85.1 | 133 | 152.6 |
| AP1S1 | 1027.4 | 1397 | 580.1 | 468.1 | 328.8 | 555.1 | 862.9 | 1232.3 |
| AP1S1 | 1930.7 | 2993.3 | 994.8 | 572.1 | 503.5 | 460.5 | 1706.7 | 2284.6 |
| AP1S2 | 9179.4 | 11036.2 | 4967 | 6947.7 | 4112.9 | 6998.1 | 6843.5 | 9377 |
| AP1S3 | 96.2 | 112.4 | 92.1 | 83 | 77.2 | 86.8 | 88.2 | 125.4 |
| AP2A1 | 141.4 | 180.4 | 142.6 | 114 | 106.8 | 141.4 | 140.6 | 184.9 |
| AP2A1 | 112.5 | 143 | 103.7 | 105.2 | 91.4 | 118.4 | 94.4 | 144 |
| AP2A1 | 88.4 | 113.6 | 108.6 | 97.6 | 103.8 | 100.9 | 89.1 | 101.7 |
| AP2A2 | 122.2 | 155.7 | 139.2 | 131.1 | 113.6 | 154.3 | 117.7 | 168.5 |
| AP2B1 | 137 | 178.7 | 151.5 | 163.2 | 126.2 | 196.8 | 135.6 | 155.5 |
| AP2B1 | 157.3 | 226.2 | 122.2 | 149 | 126.2 | 179.1 | 155.6 | 219.8 |
| AP2M1 | 1174 | 1559.7 | 1111 | 912.8 | 806.7 | 1129.6 | 1090.9 | 1716.9 |
| AP2M1 | 1383.6 | 1910.3 | 906.2 | 1184.8 | 933.3 | 1469.5 | 1272.6 | 2127.1 |
| AP2S1 | 8203.6 | 10041.7 | 4519.8 | 2106 | 1551.9 | 3047.8 | 6942.7 | 10306.5 |
| AP2S1 | 22533.9 | 25925.8 | 22164.1 | 13906.5 | 10856.1 | 12298.8 | 24034.7 | 24904.3 |
| AP3B1 | 2413.4 | 3402.2 | 2537.7 | 2312.6 | 1981.2 | 2972.7 | 2296.4 | 3688.9 |
| AP3B2 | 91.4 | 114.9 | 99.4 | 93.2 | 83.5 | 103.1 | 92.6 | 107.4 |
| AP3D1 | 89.3 | 112.3 | 95.6 | 88.6 | 84.1 | 90.4 | 99.3 | 100.5 |
| AP3D1 | 520.6 | 637.7 | 712.8 | 604.1 | 465 | 765.7 | 511.4 | 924.3 |
| AP3D1 | 538.5 | 701.2 | 733.3 | 607.3 | 483.3 | 802.4 | 543.6 | 1018.6 |
| AP3M1 | 608.6 | 837.5 | 617.9 | 437.5 | 347.7 | 596.8 | 543.1 | 1140.7 |
| AP3M1 | 96.7 | 98.1 | 91.1 | 86.7 | 86.4 | 91.1 | 94.5 | 92.5 |
| AP3M1 | 946.8 | 1214.5 | 856.5 | 703.3 | 531.4 | 870.7 | 846.9 | 1594.1 |
| AP3M2 | 600.1 | 750.3 | 434.3 | 359.1 | 288.3 | 379 | 376.1 | 473.1 |
| AP3S1 | 1361.9 | 2027.6 | 672.2 | 749.5 | 598.8 | 875 | 1117.9 | 1477.7 |
| AP3S2 | 161.5 | 206 | 155.5 | 151.8 | 145.2 | 166.5 | 171.8 | 179.4 |
| AP4B1 | 1965.8 | 2224.3 | 1269.2 | 808.1 | 623.3 | 861 | 1567.3 | 1796.1 |
| AP4E1 | 388.8 | 546.7 | 389.7 | 455.4 | 380.6 | 752.3 | 387.3 | 618.6 |
| AP4M1 | 137.2 | 148.4 | 107 | 113.5 | 99.1 | 108.1 | 130.8 | 148.9 |
| AP4S1 | 157.9 | 189.3 | 128.7 | 107.2 | 109.7 | 104.9 | 145.7 | 194.1 |
| APAF1 | 1193.7 | 1587.3 | 619.8 | 1109.8 | 885.7 | 1872.1 | 1108.2 | 1434.6 |
| APAF1 | 124.2 | 150.5 | 110 | 107.9 | 104.5 | 94.5 | 123.8 | 140.3 |
| APBA1 | 86.1 | 93.7 | 92.1 | 84.4 | 84.5 | 84.5 | 82.9 | 92.8 |
| APBA2 | 111.8 | 134.8 | 101.8 | 98.8 | 90.3 | 96.4 | 100.6 | 124.8 |
| APBA2BP | 94.2 | 121.3 | 107 | 112.1 | 102.1 | 135.7 | 105.4 | 126 |
| APBA2BP | 73.8 | 88.8 | 82.6 | 82.9 | 77.3 | 85.6 | 83.6 | 76.4 |
| APBA2BP | 121.5 | 145.1 | 99.3 | 102.2 | 87.4 | 103.5 | 119.1 | 159.3 |
| APBA3 | 396.6 | 497.1 | 395.4 | 219 | 211.6 | 256 | 427.8 | 458 |
| APBB1 | 117.2 | 131.4 | 87.9 | 82.7 | 80.4 | 76.6 | 98.4 | 109.8 |
| APBB1 | 111.5 | 114.3 | 87.7 | 84.2 | 79.5 | 82.4 | 91.3 | 119.1 |
| APBB1 | 79.9 | 98 | 92.6 | 81.8 | 82.2 | 82 | 86.6 | 88.5 |
| APBB1IP | 674.2 | 929.5 | 719.2 | 930.9 | 682.7 | 1028.2 | 467.9 | 993 |
| APBB2 | 96.3 | 122 | 105.5 | 87.5 | 87.3 | 89.5 | 108.4 | 109.2 |
| APBB3 | 434.7 | 407.2 | 361.6 | 403.2 | 421.1 | 564.3 | 242.5 | 238.2 |
| APBB3 | 223.5 | 247.1 | 147 | 165.3 | 165.2 | 209.8 | 148.2 | 154.8 |
| APC | 91.8 | 111.3 | 96.7 | 82.7 | 84.8 | 86 | 96.5 | 105.4 |
| APC2 | 85.6 | 103 | 96.1 | 96.3 | 93.7 | 93.6 | 88.9 | 95.7 |
| APCDD1 | 117.8 | 144.4 | 108.5 | 118.1 | 107.9 | 110.3 | 120.1 | 130.3 |
| APCS | 118.6 | 150 | 126.7 | 106.4 | 109.6 | 116.4 | 121.4 | 125.4 |
| APEH | 1652.4 | 2235.2 | 967.3 | 931.6 | 800.7 | 1109 | 1392.2 | 2155.1 |

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|----------|--------|---------|--------|--------|--------|--------|--------|--------|
| APEX1 | 6374.1 | 7690.5 | 4234.3 | 3231.7 | 2600.9 | 4743.8 | 4417.7 | 4698.1 |
| APEX1 | 9087.6 | 10630.4 | 8083.5 | 6897.5 | 5035.4 | 9588.6 | 6826.1 | 8407.1 |
| APEX2 | 905.1 | 1082.1 | 736.5 | 499.4 | 363.8 | 463.4 | 762.8 | 1287.5 |
| APH1A | 2419.9 | 3415.6 | 2226.4 | 1675.3 | 1365.4 | 1351.1 | 2070.3 | 3099.2 |
| APH1A | 450 | 623.7 | 259.6 | 194.8 | 175.4 | 216.1 | 421 | 745.3 |
| APH1B | 551.6 | 755.5 | 455.7 | 367.8 | 316 | 331.8 | 581.2 | 763 |
| API5 | 1847.9 | 2330.3 | 819.8 | 929.3 | 618.1 | 1580.6 | 1280.6 | 2683.7 |
| APIN | 107.1 | 117.3 | 96.3 | 79.7 | 86.2 | 88.8 | 104.8 | 113.3 |
| APIP | 477.8 | 575.3 | 248.6 | 179.2 | 191 | 338.5 | 386.4 | 725.8 |
| APITD1 | 214.2 | 271.7 | 136.2 | 107 | 93.1 | 105.7 | 164.4 | 171.9 |
| APITD1 | 1229 | 1729.5 | 821 | 522 | 422.5 | 658.4 | 910.4 | 1388.4 |
| APLN | 109.7 | 109.5 | 97.8 | 91.1 | 84.2 | 96.9 | 120.1 | 110 |
| APLP1 | 111.8 | 109.9 | 89.1 | 83.8 | 86.7 | 90.3 | 98.5 | 124.8 |
| APLP1 | 102.8 | 117.1 | 113.3 | 83.4 | 79.7 | 88.9 | 108.8 | 152.4 |
| APLP2 | 127.5 | 132.4 | 101.6 | 90.9 | 86.1 | 104.3 | 109.7 | 126.2 |
| APOA1 | 125.4 | 142.9 | 102.9 | 71.2 | 76.1 | 96.7 | 106.3 | 125.9 |
| APOA1BP | 3315.4 | 4256.1 | 2779 | 2052.4 | 1514.5 | 2416.9 | 2536.7 | 3640.1 |
| APOA2 | 98.1 | 115.5 | 111.6 | 105.7 | 98.7 | 114.7 | 110.6 | 114 |
| APOA4 | 80.8 | 93 | 84.7 | 78.1 | 92.3 | 75.8 | 88.6 | 105.4 |
| APOA5 | 116 | 149.6 | 91.5 | 82.1 | 88.8 | 87.8 | 113.2 | 131 |
| APOB | 123.5 | 140.3 | 90 | 79.5 | 79.7 | 83.2 | 111.2 | 140.7 |
| APOB48R | 240.1 | 261.3 | 257.6 | 274 | 221.7 | 337.7 | 195.2 | 248.9 |
| APOBEC1 | 89.7 | 107.4 | 102.5 | 98.6 | 91.2 | 95.4 | 92.4 | 112.8 |
| APOBEC2 | 93.9 | 89.8 | 81.7 | 85.1 | 84.9 | 84.6 | 82.7 | 94.2 |
| APOBEC3A | 67.7 | 84.6 | 84.6 | 82.7 | 82 | 86.6 | 74.1 | 75.5 |
| APOBEC3B | 732.6 | 976 | 485.5 | 390.6 | 337.7 | 451.3 | 612.6 | 651.2 |
| APOBEC3C | 167.5 | 180.1 | 148.3 | 160.1 | 160.4 | 153.8 | 154.4 | 253.3 |
| APOBEC3D | 88.8 | 100.3 | 93.8 | 90 | 78.7 | 91.6 | 94.5 | 98.3 |
| APOBEC3F | 321.1 | 401.6 | 134.9 | 146.1 | 141.1 | 136.2 | 241.6 | 230.4 |
| APOBEC3F | 218.1 | 277.9 | 173.2 | 185.4 | 155 | 167.5 | 212 | 248.4 |
| APOBEC3F | 175.5 | 196.8 | 124.2 | 135 | 125 | 130.3 | 163.5 | 183.8 |
| APOBEC3G | 443.2 | 616.6 | 233.9 | 223.4 | 197.3 | 254.1 | 348.8 | 430.7 |
| APOBEC4 | 72.4 | 83.6 | 96.5 | 87.2 | 73.9 | 84.6 | 83.3 | 86.8 |
| APOC1 | 494.1 | 597.7 | 379.6 | 676.2 | 484.6 | 598.3 | 510 | 780.3 |
| APOC2 | 2438.8 | 2916.5 | 758 | 776 | 616.2 | 671.9 | 2465.9 | 3490.1 |
| APOC3 | 81.6 | 85.8 | 95.4 | 81.2 | 84.9 | 80.8 | 85.2 | 87.8 |
| APOC4 | 92.9 | 106.3 | 97.3 | 86.6 | 84.8 | 91.4 | 94.3 | 104.1 |
| APOD | 71.8 | 78 | 100.7 | 79.2 | 80.3 | 79.9 | 72.9 | 80.5 |
| APOE | 176.5 | 173.2 | 141.4 | 1379.7 | 1251.4 | 1764.7 | 138.3 | 188.9 |
| APOF | 85.6 | 106.8 | 95.6 | 77 | 84.3 | 82.6 | 88.4 | 106.9 |
| APOH | 81.9 | 97 | 91.3 | 88.5 | 75.2 | 79.2 | 80.7 | 95.2 |
| APOL1 | 142 | 226.1 | 132.1 | 95.4 | 98.4 | 132.2 | 155 | 217.4 |
| APOL1 | 89.7 | 105.2 | 87.8 | 76.8 | 74.7 | 80.5 | 83.5 | 99.1 |
| APOL2 | 120 | 155.3 | 90.8 | 90.2 | 83.7 | 91.5 | 120.5 | 152.3 |
| APOL2 | 88.4 | 94.5 | 118.6 | 112.4 | 100.1 | 106.7 | 87.2 | 96.2 |
| APOL2 | 151.2 | 211.6 | 108.5 | 91.4 | 83.5 | 104.8 | 151.6 | 164.1 |
| APOL3 | 71.4 | 75.9 | 97 | 81.5 | 75.6 | 75.3 | 79 | 81.9 |
| APOL3 | 113.4 | 128.3 | 91.7 | 99.5 | 103.4 | 99.2 | 111.6 | 126.4 |
| APOL3 | 113.9 | 143.9 | 90.1 | 98.8 | 84.6 | 93.3 | 98.9 | 122.5 |
| APOL4 | 103.1 | 126.8 | 108.5 | 88.4 | 77.9 | 92.4 | 102.6 | 126.9 |

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| APOL4 | 100.3 | 121.5 | 93.8 | 98.3 | 91.8 | 89.7 | 100.6 | 109.1 |
| APOL5 | 100.1 | 109.1 | 94.8 | 88.2 | 78.3 | 86.2 | 99.9 | 96.2 |
| APOL6 | 180 | 239.6 | 113.2 | 126.8 | 110.5 | 118.4 | 152.7 | 191.3 |
| APOLD1 | 139.3 | 150.2 | 126.9 | 117.6 | 111.3 | 132.3 | 134.1 | 210.2 |
| APOM | 246.5 | 324.6 | 212.3 | 232.4 | 183 | 264.5 | 248.6 | 330.9 |
| APP | 1362.9 | 2252.3 | 1431.1 | 1483.1 | 1315.2 | 2530.9 | 1269.2 | 1473.2 |
| APP | 139.2 | 205.3 | 116.3 | 122.3 | 112 | 117.9 | 133.1 | 137.2 |
| APP | 1132.8 | 1683.3 | 977.5 | 1196.6 | 1059.4 | 1759.8 | 1041.3 | 1023.7 |
| APPBP1 | 231.7 | 263.3 | 140.6 | 128.6 | 128 | 146.4 | 172.7 | 185 |
| APPBP1 | 4619.1 | 5466.6 | 2082.2 | 1644.1 | 1178.3 | 2321.3 | 3636.2 | 4177.9 |
| APPBP1 | 1470.4 | 1660.2 | 766.6 | 619.5 | 500.2 | 849.5 | 1268.6 | 2339 |
| APPBP2 | 402.7 | 557.3 | 284.3 | 575.2 | 430.8 | 603.3 | 421.4 | 483.5 |
| APPL | 324 | 380.8 | 174.6 | 186.7 | 148.8 | 225.7 | 282.2 | 468.2 |
| APRIN | 175.8 | 217.1 | 163.3 | 182.9 | 141.5 | 204.3 | 161.5 | 190.1 |
| APRIN | 781.1 | 1003.9 | 410.5 | 390.3 | 354.4 | 537.3 | 658.3 | 984.5 |
| APRT | 2846.4 | 3434.5 | 2645.4 | 1409.8 | 1143.4 | 1597.6 | 2158 | 2610.9 |
| APRT | 2221.7 | 2810.5 | 1200.6 | 650 | 530 | 710.1 | 1548.8 | 1908.1 |
| APS | 161.3 | 184.9 | 161.3 | 111.9 | 97.1 | 112.8 | 148.6 | 256 |
| APTX | 1100.9 | 1496.9 | 691.9 | 664.7 | 550 | 810.6 | 805.9 | 1261.5 |
| APTX | 73.9 | 83.6 | 92.8 | 89.4 | 89.8 | 89.6 | 76.4 | 78.6 |
| APTX | 456.4 | 631.8 | 309.3 | 247.9 | 187.5 | 277.9 | 376.8 | 630.5 |
| APXL | 93.5 | 123.8 | 88.9 | 98.2 | 93.6 | 97 | 89 | 100.7 |
| APXL2 | 95 | 97.7 | 112.3 | 92.8 | 96.2 | 106.2 | 89.7 | 107.7 |
| AQP1 | 105.8 | 138.1 | 103.9 | 85.2 | 98.2 | 91.7 | 106.3 | 135.6 |
| AQP1 | 110.9 | 120 | 96.1 | 93.3 | 90 | 94.5 | 110.1 | 130.5 |
| AQP10 | 81.8 | 81.3 | 85.7 | 93 | 74.6 | 76.1 | 81.2 | 82.1 |
| AQP11 | 120.8 | 128.3 | 103.2 | 94.3 | 99.9 | 101.8 | 104.4 | 108.9 |
| AQP12A | 92.4 | 99.4 | 98.6 | 105.8 | 97.6 | 91.9 | 102.7 | 94.1 |
| AQP2 | 88.9 | 94 | 102 | 87.9 | 97.8 | 102.9 | 88.6 | 87.7 |
| AQP3 | 105.8 | 141.1 | 79.2 | 78.3 | 70.7 | 76.9 | 103.8 | 153.9 |
| AQP4 | 94 | 116.2 | 97.1 | 89.3 | 80.7 | 95.5 | 94 | 97.4 |
| AQP4 | 89.8 | 93.4 | 90.3 | 85.3 | 79.8 | 85.9 | 74.9 | 104.8 |
| AQP5 | 91.2 | 109.4 | 96.7 | 81.9 | 80.2 | 82.2 | 95.2 | 93.4 |
| AQP6 | 163.3 | 187.1 | 120.7 | 121.7 | 111.6 | 123.4 | 153.5 | 180.2 |
| AQP7 | 82.1 | 93 | 90.5 | 85.8 | 83.1 | 80.5 | 82.1 | 101.1 |
| AQP7P2 | 107.1 | 148 | 88.7 | 76.7 | 73 | 78 | 92.9 | 118.7 |
| AQP8 | 74.3 | 89.2 | 78.8 | 86.7 | 84.5 | 86.3 | 86.5 | 86.9 |
| AQP9 | 99.4 | 101.3 | 91 | 93.7 | 92.3 | 106.8 | 93.7 | 100.6 |
| AQR | 129.8 | 144.6 | 103.1 | 109.9 | 90.8 | 114.6 | 115.6 | 168 |
| AR | 205.6 | 265.4 | 151.4 | 171.2 | 146.4 | 195.1 | 181.4 | 226.9 |
| AR | 109.5 | 150.7 | 96.1 | 105.4 | 90.5 | 93.7 | 103.3 | 121.3 |
| AR | 81.1 | 98.9 | 94.5 | 83.7 | 87.1 | 76.8 | 98.6 | 105.3 |
| ARAF | 1298.2 | 1525.2 | 645.2 | 506.7 | 482.2 | 493.8 | 930 | 718.7 |
| ARC | 140.8 | 184.2 | 100 | 95.8 | 91.4 | 99.6 | 138.6 | 162.9 |
| ARCN1 | 2189.2 | 3216.3 | 1944.7 | 1167.5 | 921 | 1341.6 | 1968.6 | 4289.2 |
| ARD1A | 1515.1 | 1669.8 | 702.7 | 640 | 420.6 | 639 | 1442.8 | 1548.2 |
| AREG | 79.4 | 84.6 | 101.2 | 97 | 84.7 | 97.5 | 87.4 | 81.6 |
| ARF1 | 889.6 | 1178.6 | 425.8 | 259.3 | 227.7 | 296.2 | 833.1 | 1152.2 |
| ARF1 | 6859.4 | 9583.9 | 4558.1 | 3560.2 | 2788.4 | 3666.1 | 6759.9 | 8493.9 |
| ARF1 | 140.8 | 156.7 | 98.1 | 90.6 | 74.8 | 113.5 | 126.4 | 164.6 |

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| ARF3 | 830.3 | 1249.4 | 416.5 | 383.3 | 280.6 | 491.6 | 730.7 | 1169.2 |
| ARF4 | 800 | 1077.8 | 373.6 | 344.6 | 270.5 | 310 | 671.5 | 786.1 |
| ARF4 | 4233.6 | 5374 | 2448.6 | 2444.8 | 1645.7 | 2414.2 | 3935.1 | 7450.1 |
| ARF5 | 1010.1 | 1405.4 | 846.3 | 994.2 | 776.9 | 1446.3 | 894.4 | 1098.2 |
| ARF6 | 130.2 | 149.8 | 107.8 | 87.3 | 84 | 83.7 | 131.7 | 164.4 |
| ARFGAP1 | 110.5 | 119.1 | 102.1 | 84.1 | 91.5 | 91.8 | 114.7 | 138.2 |
| ARFGAP1 | 261.8 | 256.5 | 288.9 | 247.4 | 257.1 | 476.6 | 225.2 | 343.7 |
| ARFGAP3 | 102.4 | 117.5 | 96.5 | 82.9 | 79.6 | 98.9 | 109.9 | 131.4 |
| ARFGEF1 | 222.7 | 287.9 | 148.2 | 176.4 | 137.8 | 240.4 | 231.9 | 358.7 |
| ARFGEF2 | 168 | 204.5 | 146.6 | 131.4 | 136 | 145.7 | 146.7 | 198.1 |
| ARFIP1 | 646.3 | 933.4 | 329 | 296.6 | 241.8 | 442.7 | 535.2 | 851.1 |
| ARFIP1 | 178.4 | 221.2 | 113 | 97.6 | 94.3 | 100.3 | 137.2 | 166 |
| ARFIP2 | 101.2 | 144.9 | 91.7 | 83.6 | 80.4 | 88 | 125.3 | 160.5 |
| ARFRP1 | 145.1 | 163.2 | 127.4 | 124.8 | 113.8 | 124.6 | 141.1 | 156.3 |
| ARG1 | 79.1 | 86.9 | 88.7 | 82.8 | 83.6 | 78.5 | 83.1 | 91.4 |
| ARG2 | 138.2 | 152.9 | 107.4 | 88.2 | 90.4 | 91.4 | 126.3 | 131.5 |
| ARG99 | 85.5 | 101.3 | 92.1 | 89.9 | 88.3 | 91.2 | 88 | 94 |
| ARGFX | 86.4 | 102.1 | 86.5 | 83.9 | 80.6 | 86.3 | 84.2 | 92.9 |
| ARGFXP2 | 91 | 102.5 | 100.8 | 84.2 | 77.4 | 89.6 | 85 | 94.9 |
| ARHGAP1 | 1737.2 | 2108.7 | 1661.8 | 1082.2 | 785.6 | 918.4 | 1612.2 | 2041.8 |
| ARHGAP10 | 228 | 297.1 | 143.6 | 112.5 | 132.5 | 138.6 | 216.1 | 289.8 |
| ARHGAP11 | 295.7 | 390.6 | 163.1 | 174.7 | 166.6 | 201.7 | 265 | 291.2 |
| ARHGAP11 | 249.6 | 330 | 170.6 | 210.5 | 176.1 | 307.7 | 223.3 | 316.7 |
| ARHGAP11 | 180 | 197.1 | 109.3 | 107.1 | 103.4 | 114.3 | 157.3 | 192 |
| ARHGAP12 | 108.5 | 114.6 | 106.5 | 93.4 | 89 | 110.9 | 117.3 | 145.8 |
| ARHGAP15 | 2437 | 3024.6 | 1806.1 | 2073.3 | 1829.7 | 3078.5 | 1931.3 | 3057.1 |
| ARHGAP17 | 2131.4 | 2803.3 | 1880.8 | 2203.4 | 2001.3 | 2281.8 | 1700.7 | 1771.2 |
| ARHGAP17 | 229.4 | 326.9 | 227.9 | 260.4 | 242.6 | 301.6 | 232.6 | 412.4 |
| ARHGAP17 | 102.8 | 102.3 | 108 | 95.1 | 90.7 | 89.3 | 89.7 | 100.6 |
| ARHGAP18 | 143.8 | 167.9 | 102 | 108.8 | 94.4 | 118.2 | 135.3 | 201.8 |
| ARHGAP19 | 609.8 | 899 | 682.4 | 581 | 478.4 | 832 | 642.8 | 1043.6 |
| ARHGAP20 | 86.1 | 102.1 | 100.5 | 85.6 | 87 | 90.1 | 97.1 | 97.4 |
| ARHGAP21 | 398 | 602.7 | 238.4 | 229.9 | 194.9 | 279.1 | 528.9 | 677.9 |
| ARHGAP22 | 128.5 | 148.1 | 102.2 | 102.4 | 91 | 99.5 | 122.1 | 117.7 |
| ARHGAP24 | 80.8 | 91.1 | 90.9 | 92.1 | 88.1 | 88.6 | 86.2 | 88.1 |
| ARHGAP24 | 93 | 102.2 | 91.4 | 88.9 | 90.8 | 99.1 | 89.2 | 90.1 |
| ARHGAP24 | 134.6 | 121.9 | 96.2 | 85.1 | 85.4 | 96 | 113.7 | 139.8 |
| ARHGAP24 | 111.1 | 115.6 | 115.9 | 117.3 | 115 | 125.6 | 111 | 120 |
| ARHGAP25 | 103.8 | 108.2 | 91.5 | 85.2 | 92.8 | 92.7 | 96.5 | 105.9 |
| ARHGAP25 | 315.1 | 418.2 | 181.6 | 198.8 | 185.5 | 304.6 | 313.8 | 404.5 |
| ARHGAP25 | 88.6 | 103.3 | 84.1 | 80 | 84.7 | 89.7 | 87.7 | 104.2 |
| ARHGAP26 | 145 | 196.5 | 123.1 | 110.9 | 113.3 | 93 | 141.4 | 160.9 |
| ARHGAP27 | 125.2 | 145.6 | 96.3 | 97.6 | 86.5 | 99.5 | 118.8 | 140.7 |
| ARHGAP28 | 75.2 | 96.7 | 89 | 80.5 | 86.5 | 75.5 | 82.6 | 83.9 |
| ARHGAP28 | 78.1 | 85.4 | 103.6 | 86.6 | 78.2 | 89.3 | 85.6 | 97.9 |
| ARHGAP28 | 70 | 90.1 | 90.5 | 88.6 | 84.3 | 80.9 | 86 | 86 |
| ARHGAP29 | 72.4 | 93 | 107.5 | 84.2 | 98.3 | 94.3 | 72.9 | 81.1 |
| ARHGAP30 | 1055.7 | 1586.6 | 736.4 | 368.6 | 349.9 | 409.7 | 958.5 | 1310.2 |
| ARHGAP30 | 1625.9 | 2130.6 | 1187.7 | 710.8 | 734 | 734.7 | 1561.4 | 1425 |
| ARHGAP30 | 456.5 | 657.9 | 325.9 | 250.6 | 236 | 165.3 | 364 | 526.5 |

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| ARHGAP4 | 1318.7 | 1392.8 | 1218.2 | 1247 | 1127.9 | 1666.8 | 926.3 | 1360.4 |
| ARHGAP5 | 99.8 | 118.7 | 96.9 | 97.4 | 82.5 | 87.3 | 93.6 | 111.3 |
| ARHGAP6 | 99.3 | 111.4 | 96.5 | 89.6 | 84.4 | 86.7 | 106 | 105.8 |
| ARHGAP6 | 88.4 | 99.4 | 82.8 | 77.3 | 82.6 | 74.2 | 99.5 | 98.8 |
| ARHGAP6 | 76.3 | 95.3 | 90.8 | 74 | 77.6 | 89.1 | 86.5 | 91.8 |
| ARHGAP6 | 85.3 | 101.9 | 87.9 | 88.9 | 79.1 | 90.6 | 93 | 91.8 |
| ARHGAP8 | 99.5 | 104.6 | 85.3 | 95.1 | 81.5 | 85.3 | 104.8 | 92.3 |
| ARHGAP8 | 85.1 | 83.9 | 87 | 81.2 | 76.1 | 80.9 | 80.8 | 87.6 |
| ARHGAP8 | 87.3 | 107.2 | 86.4 | 79.2 | 76.9 | 74.3 | 89.2 | 100.2 |
| ARHGAP9 | 1757.3 | 1605.9 | 917.7 | 1251.3 | 1289.1 | 1676.6 | 1211.7 | 1580.5 |
| ARHGAP9 | 490.2 | 583.5 | 315 | 305.1 | 297 | 420.3 | 371.1 | 501.1 |
| ARHGDIA | 1372.1 | 1776.4 | 1087.2 | 1052.3 | 659.3 | 1263.4 | 1452.6 | 3916.4 |
| ARHGDIB | 22773.2 | 26617.1 | 18208.3 | 19492.3 | 14216.5 | 20015.6 | 22176 | 23444.3 |
| ARHGDIG | 88.9 | 90.6 | 95.8 | 87.7 | 74 | 90.4 | 86.4 | 91.9 |
| ARHGEF1 | 184.9 | 240.1 | 239.7 | 173.9 | 148.5 | 269.2 | 170 | 276.2 |
| ARHGEF1 | 97.4 | 109.1 | 111.8 | 90.5 | 96.2 | 87.2 | 97.4 | 112.3 |
| ARHGEF1 | 133.6 | 191.2 | 129.8 | 108.7 | 107.6 | 117.5 | 118.2 | 204.1 |
| ARHGEF10 | 752.1 | 1087.5 | 792 | 472.6 | 433 | 639.7 | 516.3 | 644.6 |
| ARHGEF10I | 120.6 | 161.7 | 107.7 | 93 | 78.2 | 90.4 | 118.8 | 140.1 |
| ARHGEF10I | 112.1 | 158.5 | 93 | 85.5 | 90.3 | 98.6 | 113.8 | 130.2 |
| ARHGEF10I | 103.6 | 122.4 | 103 | 79.4 | 81 | 90.7 | 85.1 | 130.1 |
| ARHGEF11 | 82.1 | 85.6 | 90.4 | 118 | 84.6 | 83.3 | 77.9 | 80.9 |
| ARHGEF11 | 210.8 | 231.9 | 125.8 | 108.6 | 112.2 | 135.3 | 198.3 | 235.4 |
| ARHGEF11 | 118.7 | 158.3 | 149.1 | 129.3 | 111.3 | 147 | 128.2 | 159.2 |
| ARHGEF12 | 100.9 | 125.6 | 112.6 | 87.5 | 82.5 | 88.1 | 100.3 | 126.5 |
| ARHGEF15 | 172.2 | 183.4 | 80.5 | 85.1 | 90.6 | 79.9 | 131.7 | 160.5 |
| ARHGEF16 | 145.5 | 153.9 | 89.7 | 92.5 | 86.1 | 90.7 | 121.5 | 141.4 |
| ARHGEF17 | 142.9 | 159.5 | 138.9 | 145.5 | 135 | 184.4 | 129.3 | 166.3 |
| ARHGEF18 | 1515.4 | 2017.8 | 1784.6 | 2005.7 | 1949 | 2353.5 | 1124.9 | 1528.4 |
| ARHGEF19 | 370.3 | 481.9 | 317.5 | 217 | 218.2 | 253.1 | 414.2 | 404 |
| ARHGEF2 | 2405.3 | 2599.9 | 2101.6 | 2402.3 | 1966.8 | 2662.7 | 1901.8 | 2493.8 |
| ARHGEF3 | 370.6 | 511 | 353.8 | 472.8 | 424.1 | 629.1 | 437.1 | 675.9 |
| ARHGEF4 | 88.8 | 87.5 | 83.3 | 82.3 | 90.1 | 79.9 | 83.1 | 94 |
| ARHGEF4 | 100.1 | 103.6 | 93.9 | 86.5 | 83.1 | 81.4 | 97.8 | 122.4 |
| ARHGEF5 | 97.4 | 119.4 | 105.4 | 102.6 | 90.4 | 122.1 | 105.6 | 130.5 |
| ARHGEF6 | 3791.6 | 5390.5 | 3468.4 | 3391.7 | 2761.3 | 4873.2 | 3360.6 | 3659.8 |
| ARHGEF7 | 827.4 | 1075.3 | 863.2 | 1016.3 | 886.3 | 1236.9 | 866.5 | 1424.8 |
| ARHGEF7 | 85.2 | 100.8 | 86.4 | 77.9 | 72.2 | 84 | 80.5 | 99.7 |
| ARHGEF7 | 129.8 | 127.3 | 108.7 | 99 | 90.7 | 97.6 | 111.1 | 143.5 |
| ARHGEF9 | 123.4 | 123.6 | 105.3 | 103.7 | 96.5 | 104.3 | 118.2 | 128.6 |
| ARID1A | 91.9 | 95.1 | 91.4 | 92 | 97.4 | 86.6 | 98.5 | 101.5 |
| ARID1A | 1910.8 | 2985.7 | 1193.1 | 1735.1 | 1562.7 | 1769.5 | 1951.7 | 1928.5 |
| ARID1B | 83.4 | 94.3 | 92.7 | 101 | 100.3 | 96.3 | 86.3 | 97.2 |
| ARID1B | 100.8 | 107.7 | 103.5 | 107 | 98.2 | 103.7 | 104.1 | 104.4 |
| ARID2 | 433.1 | 673.6 | 186.1 | 203.3 | 155.2 | 270.9 | 422 | 580.6 |
| ARID3A | 1301.8 | 1594.7 | 1315.7 | 1287.5 | 1180.6 | 2242 | 1197.6 | 1747 |
| ARID3C | 114.4 | 131.7 | 90.3 | 93.7 | 81.9 | 90.8 | 116.4 | 124.1 |
| ARID4A | 213.4 | 243.4 | 137.1 | 141.1 | 138.8 | 154.2 | 173.5 | 229.7 |
| ARID4A | 166.7 | 230.7 | 118.9 | 115.9 | 118.8 | 162.2 | 170.5 | 233.3 |
| ARID4A | 283.9 | 336.1 | 188.3 | 192.9 | 221.6 | 388.8 | 237.5 | 404.6 |

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|---------|--------|---------|--------|--------|--------|--------|--------|--------|
| ARID4B | 215.9 | 270.9 | 129.8 | 112.9 | 115.2 | 166 | 194.4 | 247.1 |
| ARID4B | 690.7 | 875.9 | 328.3 | 403.6 | 405.6 | 472.1 | 575.7 | 1050 |
| ARID4B | 301.1 | 387.4 | 167.9 | 182.7 | 184.2 | 160.5 | 242.7 | 324.9 |
| ARID5A | 91.8 | 91.1 | 97.2 | 86.4 | 91.2 | 91.9 | 99.9 | 92.7 |
| ARID5A | 85.8 | 85.1 | 97.7 | 85 | 94 | 86 | 87.8 | 93.1 |
| ARID5A | 104.6 | 124 | 116.7 | 111.1 | 101.8 | 111.1 | 106.3 | 141.8 |
| ARID5B | 129.1 | 165.1 | 133.3 | 179.5 | 154.3 | 213.3 | 121.3 | 146.9 |
| ARIH1 | 439.9 | 619.4 | 258.9 | 249.9 | 249.7 | 345 | 427.4 | 599.6 |
| ARIH2 | 1311.5 | 1452.2 | 1153.2 | 1139.7 | 1034.4 | 1248.4 | 1187.4 | 1130.7 |
| ARL1 | 722.3 | 950 | 456.3 | 530.6 | 379.9 | 677.8 | 597.5 | 936.5 |
| ARL10 | 83.7 | 109.6 | 86.6 | 80.4 | 87.6 | 92.9 | 88.5 | 92.9 |
| ARL11 | 101.8 | 114.6 | 95.8 | 96.5 | 89.5 | 96.8 | 100.9 | 108.7 |
| ARL13A | 84.9 | 92.2 | 100.8 | 91 | 87 | 95.6 | 96.3 | 101.7 |
| ARL13B | 167.1 | 231.8 | 105 | 88.3 | 91.3 | 101.9 | 132.9 | 269.6 |
| ARL13B | 132.1 | 154.3 | 95.8 | 107.9 | 98.8 | 83.3 | 143.9 | 189.9 |
| ARL14 | 76.1 | 93.5 | 90.9 | 86.4 | 81.9 | 95 | 81.1 | 97.6 |
| ARL15 | 135.5 | 159.3 | 109.2 | 104.3 | 96.2 | 102.4 | 122 | 154.7 |
| ARL16 | 1442.1 | 1353.7 | 610.2 | 653.1 | 767.7 | 743.3 | 1201.1 | 1911.3 |
| ARL2 | 4300 | 5720 | 2546.8 | 1530.2 | 1341.5 | 1308.4 | 3577.9 | 2674.9 |
| ARL2BP | 2015.4 | 2620.8 | 1331.9 | 1222.7 | 953.3 | 1386.4 | 1520.4 | 2728.4 |
| ARL3 | 113.2 | 125.9 | 135.4 | 119 | 98.9 | 117.9 | 99.7 | 143.3 |
| ARL4 | 283 | 343 | 179.5 | 116 | 115.7 | 146.4 | 206.3 | 221.1 |
| ARL4 | 350.4 | 508 | 228.1 | 160.9 | 163.5 | 206.5 | 302.8 | 393.9 |
| ARL4 | 259 | 302.6 | 166 | 138.5 | 122.7 | 170.2 | 200.3 | 282 |
| ARL4A | 105.3 | 107.1 | 95.3 | 86.2 | 79.3 | 79.8 | 95.5 | 119.4 |
| ARL4C | 128.5 | 138.2 | 104.2 | 90.7 | 90.5 | 84.5 | 119 | 149.5 |
| ARL4D | 93.2 | 103.5 | 94.2 | 99.1 | 94.5 | 87 | 95.5 | 113 |
| ARL5 | 505.4 | 671.9 | 185.8 | 167.4 | 156.4 | 171.2 | 356.8 | 438.7 |
| ARL5 | 7775.4 | 11117.1 | 3744.9 | 4749.9 | 3720 | 5084.7 | 6980.1 | 8454.7 |
| ARL5A | 2430.1 | 2746 | 1046.3 | 1273.2 | 916.4 | 1564.9 | 1845.5 | 2839.4 |
| ARL5B | 156.4 | 184.2 | 110.8 | 108.4 | 91.9 | 104.5 | 147.6 | 193.2 |
| ARL6 | 99.2 | 114.3 | 83.6 | 81.2 | 81.9 | 79.2 | 103.1 | 119.2 |
| ARL6 | 74.3 | 90.5 | 102.6 | 93.7 | 83.6 | 91.2 | 78.6 | 78.2 |
| ARL6 | 79.3 | 89.2 | 95.2 | 96 | 85.1 | 86.3 | 74.6 | 78.1 |
| ARL6IP1 | 183 | 189.8 | 115.9 | 106.8 | 99.5 | 121.4 | 163 | 293.6 |
| ARL6IP2 | 535.4 | 604.3 | 295.7 | 252.4 | 211.8 | 391.8 | 354.1 | 545.6 |
| ARL6IP4 | 428.5 | 641.9 | 186.9 | 191.4 | 204.9 | 272 | 434 | 546.9 |
| ARL6IP4 | 107.9 | 121.2 | 114.1 | 101.7 | 101.8 | 122.7 | 98.8 | 116.3 |
| ARL6IP4 | 505.9 | 585 | 316.2 | 271.8 | 324.6 | 411.3 | 497.2 | 547.6 |
| ARL6IP5 | 1823.1 | 2680.6 | 669.3 | 697.4 | 757.6 | 903.7 | 1492.4 | 1875.9 |
| ARL6IP6 | 77.8 | 90.5 | 96.4 | 90.5 | 86.5 | 88.7 | 84.4 | 96.1 |
| ARL8A | 128.6 | 139.2 | 103.3 | 89 | 82.4 | 100.3 | 131.2 | 143.7 |
| ARL8B | 2650.1 | 3238.1 | 978.9 | 1599.2 | 982.7 | 1929.5 | 2372.2 | 3894.6 |
| ARL9 | 84.6 | 96.6 | 89.7 | 90.7 | 84.4 | 86.7 | 97.1 | 101.9 |
| ARMC1 | 1293 | 1658.8 | 487.1 | 407 | 301.3 | 511.7 | 1118.1 | 1836.6 |
| ARMC10 | 2477.9 | 2968.2 | 1594.5 | 1606.4 | 1048.4 | 1729.6 | 1850.9 | 3241.8 |
| ARMC2 | 109.1 | 137.7 | 91.1 | 84.8 | 77.6 | 80 | 111.2 | 125.5 |
| ARMC4 | 93.9 | 107 | 115.6 | 106.9 | 95.2 | 116.6 | 99.2 | 98.7 |
| ARMC5 | 165.6 | 193 | 106.3 | 98.5 | 98 | 99.2 | 160.2 | 333 |
| ARMC6 | 316.3 | 339.1 | 220 | 176.6 | 168.8 | 232.2 | 272.8 | 365.7 |

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|---------|---------|---------|---------|---------|--------|---------|---------|---------|
| ARMC7 | 295.6 | 396.5 | 314.4 | 278.2 | 274.4 | 311.3 | 291.7 | 467.2 |
| ARMC8 | 169 | 201.7 | 115.2 | 97.6 | 95.5 | 99.9 | 155.8 | 214.4 |
| ARMC8 | 549.5 | 798.7 | 282.8 | 304.1 | 250.1 | 359.2 | 403.8 | 545.4 |
| ARMC8 | 111.8 | 122.2 | 113.4 | 105.7 | 96.4 | 98.2 | 104.3 | 122.2 |
| ARMC8 | 157.7 | 229.8 | 101.8 | 103.7 | 86 | 101.2 | 137.1 | 184 |
| ARMC9 | 125.4 | 161.8 | 91.5 | 91.9 | 88.3 | 89.4 | 123.3 | 168.5 |
| ARMCX1 | 177.5 | 187.7 | 117.7 | 163.6 | 139.3 | 217.4 | 147.7 | 225.8 |
| ARMCX2 | 77.1 | 90.7 | 91.9 | 80.7 | 86.4 | 85.6 | 94.4 | 104.2 |
| ARMCX3 | 313.9 | 393.9 | 191 | 208.5 | 173.7 | 249 | 268.3 | 468.1 |
| ARMCX3 | 114.2 | 151 | 85.9 | 89.4 | 88.2 | 95 | 116.2 | 130.1 |
| ARMCX5 | 397.2 | 425.6 | 187.8 | 175.1 | 151.1 | 226.6 | 282.5 | 587.4 |
| ARMCX6 | 743.6 | 990.8 | 373.3 | 280.8 | 272.3 | 363.1 | 677 | 916.9 |
| ARMCX6 | 1250.7 | 1655 | 435.4 | 316.4 | 281.6 | 394.1 | 1067 | 1382.2 |
| ARMET | 7135.9 | 8388.6 | 6473 | 4183.8 | 3143.4 | 4919.3 | 8491.9 | 11127.7 |
| ARMETL1 | 101.5 | 117.5 | 99.8 | 116.5 | 94.6 | 96.8 | 110 | 107 |
| ARNT | 216.9 | 241.7 | 122 | 113.6 | 102.2 | 123.2 | 208.2 | 258.4 |
| ARNT | 113.6 | 134.1 | 96.1 | 104.4 | 95.9 | 85.7 | 93 | 117.2 |
| ARNT2 | 98.4 | 98.8 | 96.3 | 90 | 87 | 84.8 | 98.3 | 110.2 |
| ARNTL | 142.1 | 185.1 | 108.3 | 98.1 | 92.3 | 98.9 | 138.3 | 144.6 |
| ARNTL | 270.6 | 357.4 | 291.3 | 263.8 | 269.4 | 382.2 | 261.7 | 473.2 |
| ARNTL2 | 103.2 | 126.3 | 94.2 | 84.3 | 82.2 | 89.6 | 106.1 | 113 |
| ARP10 | 112.1 | 121.5 | 106.6 | 100.1 | 88.8 | 98.6 | 95.7 | 112.2 |
| ARPC1A | 2479 | 3076.7 | 1866.4 | 1888.1 | 1348.3 | 1756.6 | 2145 | 3508.8 |
| ARPC1B | 2651.5 | 3643.6 | 1510.3 | 1131.4 | 1005 | 889.1 | 2426.7 | 2390.3 |
| ARPC2 | 107.4 | 129.7 | 90.7 | 77.2 | 86.9 | 92.7 | 121.1 | 115.9 |
| ARPC2 | 15160.2 | 18472.5 | 10006.9 | 10358.9 | 8444.7 | 11640.8 | 13858.8 | 19617.8 |
| ARPC2 | 105.2 | 115.6 | 114.7 | 90.9 | 83.8 | 96.2 | 106.9 | 132.7 |
| ARPC3 | 12512.3 | 14461.1 | 9653.2 | 10371.3 | 8527.9 | 12863.3 | 11016 | 12418.6 |
| ARPC4 | 155.9 | 191.9 | 104.3 | 95 | 85.6 | 89.7 | 129.9 | 150.4 |
| ARPC4 | 5040 | 7208.8 | 4232.9 | 2879.8 | 2078.2 | 1816.4 | 4625.3 | 5748.5 |
| ARPC4 | 3033.1 | 4256.1 | 1798.9 | 1074.3 | 832.6 | 946.9 | 2680.4 | 2973.1 |
| ARPC5 | 8662.9 | 9616.8 | 2767.2 | 3517.6 | 2279 | 3399.3 | 8180.8 | 10777.5 |
| ARPC5L | 1643.4 | 2247.4 | 1376.1 | 917.2 | 659.1 | 988.9 | 1494.9 | 2408.4 |
| ARPM1 | 145.6 | 178.6 | 97.6 | 90.2 | 102.3 | 101.3 | 137.6 | 154.3 |
| ARPM2 | 98.7 | 123 | 87.6 | 90.5 | 85 | 89.7 | 96.4 | 105.2 |
| ARPP-19 | 725.7 | 983.4 | 317.6 | 330.6 | 306.1 | 356.4 | 705.9 | 1049.4 |
| ARPP-21 | 90 | 110.3 | 101.1 | 89.2 | 84.9 | 98.6 | 77.6 | 86.9 |
| ARPP-21 | 130.6 | 148.5 | 90.7 | 79 | 80.5 | 77.3 | 139.5 | 144.8 |
| ARPP-21 | 115.9 | 119.3 | 89.2 | 77.4 | 83.9 | 81 | 94.8 | 106.9 |
| ARPP-21 | 114.7 | 132.2 | 104.2 | 88 | 86.7 | 91 | 115.8 | 104.8 |
| ARR3 | 89.4 | 104.3 | 96.7 | 91.9 | 84.3 | 82 | 92.6 | 94.3 |
| ARRB1 | 372.5 | 445.6 | 257.3 | 248.1 | 203.4 | 277.6 | 241.8 | 365.2 |
| ARRB1 | 255 | 318.2 | 237.9 | 214.5 | 195.4 | 249.9 | 165 | 216.7 |
| ARRB2 | 139.3 | 165.8 | 111.8 | 94.5 | 89.2 | 104.6 | 145.1 | 149.8 |
| ARRB2 | 132.1 | 162 | 113.9 | 101.9 | 95.9 | 116.9 | 108.9 | 151.7 |
| ARRDC1 | 179.5 | 227.7 | 163.9 | 147 | 155.9 | 171.2 | 137.8 | 182 |
| ARRDC2 | 133.2 | 131.9 | 103 | 88.4 | 85.9 | 89.5 | 109.5 | 143.4 |
| ARRDC2 | 100.1 | 110.3 | 91.6 | 89.3 | 86.6 | 82.5 | 89.4 | 107.3 |
| ARRDC2 | 235.6 | 255 | 224.2 | 174.2 | 156 | 200.3 | 215.2 | 400.5 |
| ARRDC3 | 237.6 | 321.7 | 169.1 | 249 | 250.1 | 377.6 | 192.6 | 259.5 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| ARRDC4 | 128.7 | 150 | 108.4 | 160.6 | 134.4 | 198.2 | 148.5 | 293.6 |
| ARRDC5 | 91.6 | 105.7 | 86.6 | 79.5 | 94 | 87 | 97.2 | 100.7 |
| ARS2 | 6252.7 | 7360.9 | 4381.7 | 3359.4 | 3133.6 | 4221.8 | 4762.5 | 5264.5 |
| ARS2 | 94.9 | 103.2 | 90.1 | 81.1 | 73.8 | 81.9 | 92.2 | 111.9 |
| ARSA | 218.4 | 235.6 | 111.8 | 131.9 | 124.9 | 121.5 | 180.4 | 174.1 |
| ARSB | 114.3 | 126.6 | 96.7 | 90.9 | 88 | 90.8 | 111.5 | 116.5 |
| ARSB | 601.3 | 850.3 | 377 | 502.8 | 360.6 | 404.7 | 648.6 | 810.8 |
| ARSB | 218.7 | 262.8 | 137 | 157.2 | 140.7 | 161.3 | 172 | 221.7 |
| ARSD | 190.9 | 228.5 | 136.9 | 202.7 | 192.5 | 140.7 | 144.3 | 179.1 |
| ARSD | 91 | 113.8 | 119.6 | 105.9 | 93.9 | 104 | 104.4 | 102.7 |
| ARSD | 765.7 | 925.2 | 792.2 | 1165.4 | 875.2 | 1333.4 | 704.3 | 1402.3 |
| ARSE | 82.5 | 87.3 | 92.9 | 89.2 | 80.8 | 79.9 | 84.7 | 89.6 |
| ARSF | 77.5 | 92.1 | 85.2 | 87.5 | 81.6 | 90.6 | 79.2 | 83.8 |
| ARSG | 143.5 | 180.7 | 113.8 | 100.6 | 94.9 | 124.7 | 154.1 | 152.7 |
| ARSH | 82 | 84.7 | 94 | 87.6 | 89.1 | 107.1 | 84.3 | 94.3 |
| ARSI | 96.1 | 112.9 | 90.5 | 91 | 80.7 | 102.8 | 94.3 | 106.4 |
| ARSJ | 89.3 | 98.3 | 100.9 | 102.8 | 93 | 94.3 | 94.4 | 93.2 |
| ARSK | 168.1 | 195.7 | 140.1 | 133.8 | 122.1 | 142.2 | 143.5 | 161.9 |
| ART1 | 150.6 | 162.9 | 105.7 | 88 | 94.4 | 100.3 | 129.8 | 161.6 |
| ART3 | 91.8 | 107.8 | 106.9 | 92.2 | 87.1 | 90.2 | 90.8 | 97 |
| ART4 | 101.6 | 137.2 | 104.9 | 103.9 | 92.4 | 113.7 | 117.2 | 112.2 |
| ART5 | 105 | 105.2 | 90.1 | 77.5 | 81.3 | 74.1 | 87 | 96.4 |
| ART5 | 90.6 | 107.8 | 90.2 | 88.2 | 90.9 | 85.1 | 90.2 | 94.5 |
| ARTN | 85.1 | 96.3 | 85.5 | 74.8 | 66.3 | 78.5 | 83.5 | 87.8 |
| ARTN | 87.4 | 90.5 | 94.1 | 93.4 | 84.9 | 83.7 | 81 | 92 |
| ARTN | 87.9 | 94.7 | 94.6 | 90 | 92.5 | 81.9 | 77.9 | 98.6 |
| ARTN | 102.7 | 113.4 | 109.1 | 100.9 | 92.7 | 101.9 | 91.9 | 112.9 |
| ARTS-1 | 151 | 187.8 | 113.8 | 121.9 | 110.1 | 111.6 | 130.5 | 146.7 |
| ARTS-1 | 114.6 | 131.5 | 89.6 | 78.4 | 75 | 78.9 | 109.2 | 122.3 |
| ARV1 | 2347 | 2725.5 | 972.5 | 1012 | 722 | 1115.4 | 1622.1 | 2579.6 |
| ARVCF | 114.3 | 117.1 | 99.7 | 86.4 | 73.6 | 89.5 | 102.2 | 128 |
| ARVP6125 | 96.1 | 96.3 | 101.6 | 103.2 | 90.8 | 90.5 | 89.7 | 95.3 |
| ARX | 106.8 | 147.4 | 122.7 | 103.3 | 106 | 104.3 | 111.3 | 141.4 |
| AS3MT | 116.9 | 130.9 | 109.4 | 94.1 | 91.1 | 102.1 | 122.4 | 126 |
| ASAH1 | 290.2 | 387.8 | 173.2 | 198.8 | 167 | 248.5 | 257.5 | 311.1 |
| ASAH1 | 141.6 | 150.7 | 114.7 | 101.4 | 91.4 | 100.5 | 137.1 | 130.6 |
| ASAH2 | 91.5 | 97.7 | 94.8 | 86.1 | 81.8 | 84.7 | 90.7 | 94 |
| ASAH3 | 99.6 | 119.4 | 97.2 | 88 | 79.2 | 81.3 | 102.4 | 110.5 |
| ASAH3L | 103.8 | 114.1 | 127.5 | 105.3 | 103.4 | 110.4 | 103 | 109 |
| AS AHL | 1108.8 | 1470.1 | 573.3 | 426 | 344.8 | 519 | 1048.4 | 1357 |
| AS AHL | 1118 | 1497.6 | 650 | 520.9 | 471.6 | 630.3 | 880.8 | 1068.6 |
| AS AHL | 465.8 | 606.3 | 265.5 | 201.9 | 184.3 | 213 | 399.8 | 560.8 |
| ASAM | 79.6 | 83.7 | 85.2 | 89.8 | 84.9 | 90.1 | 81.4 | 83.1 |
| ASB1 | 472 | 528.8 | 200.1 | 209.5 | 215.7 | 209 | 406.7 | 463.6 |
| ASB10 | 125.1 | 118.6 | 102.7 | 89.5 | 87.6 | 101.9 | 95.3 | 135.4 |
| ASB11 | 80.8 | 94.2 | 92.7 | 83.4 | 81.4 | 87.1 | 90.5 | 97.4 |
| ASB11 | 108.3 | 117.9 | 82 | 89 | 88.2 | 84.9 | 104.4 | 131.1 |
| ASB11 | 129.1 | 148.8 | 108.7 | 105.6 | 113.2 | 125.6 | 129.9 | 114.3 |
| ASB12 | 120.4 | 134.5 | 114.1 | 105.8 | 101.5 | 105.1 | 108.4 | 124.1 |
| ASB13 | 357.2 | 445.7 | 311.2 | 245.2 | 189.8 | 266.7 | 290.5 | 382.7 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| ASB14 | 85 | 107.3 | 86.2 | 92 | 78.3 | 87.4 | 84 | 88.1 |
| ASB15 | 95.4 | 99 | 101 | 91.3 | 95.1 | 93.4 | 88.5 | 93 |
| ASB16 | 94.1 | 99 | 97.5 | 89.3 | 81.8 | 89.5 | 92.4 | 108.8 |
| ASB17 | 77.6 | 80.7 | 85.7 | 89.3 | 82.7 | 92.5 | 84.8 | 88.3 |
| ASB2 | 111.9 | 134.3 | 100.2 | 89.1 | 95.6 | 95.9 | 103.9 | 111.1 |
| ASB3 | 267.7 | 327.6 | 153.6 | 162 | 170.1 | 184.3 | 299.8 | 465.7 |
| ASB3 | 315.7 | 459 | 210.3 | 202.4 | 175.9 | 202 | 274.2 | 353.5 |
| ASB4 | 105 | 144.4 | 90.6 | 76.5 | 79.9 | 80.4 | 106.9 | 112.7 |
| ASB4 | 93.5 | 102.3 | 91.4 | 75.4 | 81.4 | 82.6 | 98.1 | 103.3 |
| ASB4 | 83.2 | 97 | 92.6 | 90.4 | 84 | 91.8 | 83 | 85.3 |
| ASB5 | 84.6 | 94.1 | 88.5 | 85 | 92.4 | 86.4 | 79.7 | 89.6 |
| ASB6 | 85.1 | 95.6 | 88.6 | 81.2 | 78 | 79 | 90 | 102.5 |
| ASB6 | 117.7 | 111 | 127.3 | 115.8 | 112 | 112.6 | 123.6 | 166.9 |
| ASB6 | 97.1 | 128.9 | 129.1 | 117.7 | 107.4 | 128 | 107.6 | 166.5 |
| ASB7 | 124.2 | 150.4 | 95.3 | 87.1 | 88 | 94.7 | 122.1 | 142.7 |
| ASB7 | 106.3 | 136.9 | 99.5 | 102.4 | 88.1 | 92.3 | 106.9 | 114 |
| ASB7 | 232.6 | 312.4 | 144.6 | 127.9 | 101.9 | 144.7 | 207.9 | 214.5 |
| ASB8 | 300.7 | 391.6 | 172.3 | 180.1 | 133.1 | 228.6 | 313.1 | 428.5 |
| ASB9 | 78.7 | 85 | 90.9 | 85.9 | 78.5 | 87.2 | 83.9 | 82 |
| ASB9 | 74.3 | 83.2 | 87 | 79.1 | 80.4 | 77.3 | 73.8 | 78.6 |
| ASCC1 | 931.6 | 1413.1 | 901.9 | 607.4 | 482.7 | 805.3 | 862.6 | 1075.1 |
| ASCC2 | 3012.5 | 3853.8 | 1818.2 | 2023.3 | 1509.6 | 2076.9 | 2224.1 | 1694.7 |
| ASCC3 | 148.5 | 218 | 86 | 93.6 | 94 | 100.7 | 156.3 | 189.3 |
| ASCC3 | 249 | 305.9 | 151.2 | 184.4 | 120.6 | 167.9 | 217.6 | 369.6 |
| ASCC3 | 127.8 | 160.6 | 100 | 98 | 84.5 | 80.6 | 123.6 | 146.7 |
| ASCC3L1 | 204.8 | 290.1 | 125.8 | 168.9 | 139.5 | 178.9 | 183.2 | 233.8 |
| ASCIZ | 163.7 | 200.8 | 112.2 | 117.9 | 122.1 | 129.7 | 177.1 | 272.1 |
| ASCL1 | 99.3 | 122.1 | 103.2 | 103.9 | 96.4 | 89.4 | 102.7 | 111 |
| ASCL2 | 317.9 | 411.5 | 229.6 | 233.3 | 223.9 | 222 | 290.9 | 279 |
| ASCL3 | 98.1 | 111.7 | 93 | 84.5 | 75.6 | 81.6 | 98.2 | 103.1 |
| ASCL4 | 92 | 109.2 | 80 | 86.4 | 69.3 | 83.4 | 91.2 | 102.2 |
| ASF1A | 899.7 | 1110 | 630.3 | 722.1 | 539.3 | 1164.6 | 1162.8 | 2573.3 |
| ASF1B | 937.6 | 1191.5 | 615.1 | 305.6 | 317.7 | 364.6 | 706.7 | 857.9 |
| ASGR1 | 142.3 | 152.1 | 115.2 | 95 | 98.3 | 80.4 | 139.3 | 154.7 |
| ASGR2 | 90.3 | 97.6 | 90 | 82.4 | 98.8 | 87.1 | 90.2 | 102 |
| ASGR2 | 335.3 | 395.2 | 237.2 | 376.7 | 303.7 | 394.8 | 265.1 | 544 |
| ASGR2 | 176.8 | 201.9 | 150.9 | 161.8 | 159.2 | 201 | 146.1 | 218.5 |
| ASH1L | 101 | 129.5 | 86.7 | 105.3 | 92.2 | 90.4 | 99.1 | 102.3 |
| ASH2L | 3337.1 | 4359.1 | 2362.6 | 1825.4 | 1358.7 | 2343.5 | 2826.5 | 3720.6 |
| ASIP | 78.9 | 92 | 83.2 | 87.2 | 86.1 | 82.9 | 86.9 | 75.3 |
| ASL | 78.4 | 93.8 | 102 | 88.9 | 94.4 | 83.4 | 90 | 92 |
| ASL | 97.3 | 121.1 | 111.4 | 105 | 94.5 | 116.5 | 107.8 | 115.3 |
| ASL | 220.4 | 275.4 | 156.3 | 157.1 | 150.7 | 174.2 | 216.6 | 233.3 |
| ASMT | 90.1 | 105 | 95 | 96.1 | 84 | 93.3 | 86.4 | 83.5 |
| ASMTL | 173.2 | 213.5 | 165.6 | 194.8 | 161.3 | 246.9 | 181.5 | 232 |
| ASNA1 | 109.4 | 120.9 | 98.7 | 74.6 | 71.4 | 92.9 | 104.9 | 117 |
| ASNS | 2574.7 | 3584.5 | 1774.4 | 712.9 | 493.6 | 743 | 2646.6 | 3092.3 |
| ASNS | 353.2 | 400.7 | 163.2 | 127.4 | 90.2 | 115.7 | 325.4 | 402.6 |
| ASNSD1 | 2324 | 2856 | 1843.7 | 1760.6 | 1267.4 | 2461.4 | 1500.7 | 2470.8 |
| ASPA | 95.9 | 101.2 | 93.7 | 90.4 | 82.5 | 86.8 | 85.9 | 104.9 |

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|---------|---------|---------|--------|--------|--------|--------|---------|---------|
| ASPH | 289.6 | 336.2 | 124.3 | 128 | 119.1 | 128.8 | 244.6 | 284.5 |
| ASPH | 146.4 | 194.2 | 121.4 | 106 | 108.3 | 119 | 146.6 | 222.1 |
| ASPH | 120.9 | 147.8 | 97 | 100.3 | 97.9 | 92.3 | 116.2 | 123.3 |
| ASPHD1 | 480.4 | 598.3 | 370.2 | 235.9 | 195.6 | 256.8 | 408.5 | 475.2 |
| ASPHD1 | 185.6 | 193.7 | 118.1 | 107.8 | 95.1 | 108.2 | 169.5 | 144.6 |
| ASPHD2 | 179.8 | 236.2 | 150.1 | 118 | 116.8 | 120.9 | 209.5 | 271.1 |
| ASPM | 1825.5 | 2230.6 | 827.8 | 991.7 | 838.2 | 1136.4 | 1789.1 | 2534 |
| ASPN | 82.9 | 87.2 | 94.3 | 98.4 | 93.2 | 86.5 | 85.1 | 78.8 |
| ASPSCR1 | 164 | 198.7 | 109.5 | 103.7 | 104.6 | 103.4 | 158.2 | 198.9 |
| ASPSCR1 | 2944.1 | 3217.2 | 1922.8 | 1600.1 | 1503.1 | 1705.6 | 2547.7 | 2484.9 |
| ASRGL1 | 126.5 | 167.1 | 110.9 | 121.8 | 115.4 | 138.2 | 112 | 150.1 |
| ASS | 2404.3 | 3197.8 | 1084.4 | 741.9 | 721.6 | 965.6 | 2260.8 | 4466.1 |
| ASS1 | 1486.3 | 2020 | 394.3 | 257.3 | 265.5 | 337.4 | 1464.5 | 2881.5 |
| ASTE1 | 425 | 534.8 | 182.2 | 190.3 | 139.1 | 230.3 | 387.4 | 459.1 |
| ASTL | 99.5 | 106.3 | 108.2 | 91.5 | 89.6 | 90.2 | 109.9 | 109.7 |
| ASTN | 101.9 | 106 | 102.8 | 99.2 | 89.4 | 85.9 | 92 | 101.2 |
| ASTN | 97.7 | 105.3 | 94.4 | 88 | 86.6 | 85.1 | 90.5 | 120.1 |
| ASTN2 | 135.7 | 166 | 106.8 | 89.2 | 88.1 | 91 | 108.6 | 132.4 |
| ASTN2 | 117 | 143.4 | 96.2 | 92.2 | 97.2 | 84.3 | 100.7 | 117.1 |
| ASTN2 | 85.3 | 96.4 | 96 | 85.7 | 83.9 | 103.7 | 91.4 | 95.8 |
| ASXL1 | 319.3 | 431.2 | 329 | 372.3 | 322.4 | 479.6 | 290.5 | 329.9 |
| ASXL2 | 734.1 | 1012.7 | 505.3 | 1213.3 | 970.2 | 1288.3 | 709.9 | 740 |
| ASZ1 | 76.5 | 83.6 | 86.8 | 87.7 | 75.9 | 83.8 | 79.3 | 85.7 |
| ATAD1 | 324.1 | 378.9 | 125.5 | 121.8 | 111.9 | 127.3 | 246.6 | 489 |
| ATAD2 | 1622.3 | 2224.1 | 1285.1 | 1101.2 | 921.3 | 1703.5 | 1278.6 | 2175.8 |
| ATAD3A | 428.5 | 528.4 | 372.7 | 330.5 | 271.6 | 484.1 | 381.6 | 690.3 |
| ATAD3B | 164.4 | 214.5 | 144.5 | 143.4 | 131.9 | 116.7 | 157 | 209.1 |
| ATAD3C | 123.7 | 139.5 | 93.7 | 99.4 | 93.8 | 103.3 | 112.6 | 106.7 |
| ATAD4 | 226.7 | 278.7 | 166.2 | 132.6 | 121 | 148.6 | 242 | 250.3 |
| ATBF1 | 106.3 | 101.1 | 99.6 | 127.2 | 110.9 | 103.7 | 102.9 | 116.9 |
| ATCAY | 102.3 | 125.1 | 94.5 | 90.9 | 90.7 | 90.3 | 102.4 | 112.9 |
| ATE1 | 109.6 | 157.4 | 93 | 90.6 | 84.1 | 92.4 | 115.5 | 109.4 |
| ATE1 | 93.6 | 92.5 | 89.5 | 82.7 | 79.7 | 88.1 | 89.8 | 109.4 |
| ATE1 | 118.2 | 142.3 | 91.8 | 85.4 | 93 | 81.2 | 111.8 | 152.8 |
| ATF1 | 216.3 | 253.3 | 113.9 | 110.7 | 94.1 | 122.8 | 185.3 | 321.8 |
| ATF2 | 320.3 | 450.1 | 212.9 | 213.7 | 220.1 | 300.3 | 275.7 | 353.4 |
| ATF3 | 151.5 | 181.1 | 121.7 | 101.8 | 105.9 | 114.7 | 156.1 | 266.4 |
| ATF3 | 77.2 | 98.2 | 103.5 | 99.7 | 86.4 | 96.6 | 84 | 92.7 |
| ATF3 | 90.8 | 100.5 | 105.9 | 87.9 | 82 | 85.7 | 98.5 | 95.2 |
| ATF4 | 12864.5 | 15313.2 | 6188.1 | 5473.2 | 4269 | 6403 | 14738.7 | 20141.5 |
| ATF4 | 191.1 | 165.4 | 135.6 | 121.5 | 115.4 | 151 | 141.4 | 146.2 |
| ATF4 | 1011.1 | 1483.6 | 256.3 | 230.4 | 189 | 292.3 | 1294.4 | 1880 |
| ATF5 | 1424.2 | 1710.7 | 725.6 | 956 | 1073.4 | 888.2 | 1521.5 | 1639 |
| ATF6 | 1495.4 | 1876.6 | 658.1 | 823.3 | 679.5 | 972.9 | 1305.1 | 1661 |
| ATF7 | 121.4 | 129.3 | 95.6 | 87.7 | 86 | 92.6 | 100.6 | 124 |
| ATF7IP | 103 | 94.5 | 96.6 | 97.6 | 93.3 | 90.2 | 88.7 | 103.7 |
| ATF7IP2 | 376.2 | 488.3 | 291.8 | 323.5 | 248.2 | 405.2 | 304.4 | 501.9 |
| ATG10 | 229.3 | 341.5 | 228.5 | 246.5 | 191.5 | 244.2 | 209.6 | 322.8 |
| ATG12 | 1586.3 | 1855.3 | 1145 | 1094.5 | 1010.9 | 977.2 | 1459.2 | 2359.5 |
| ATG16L1 | 447.8 | 623.7 | 378.8 | 277.9 | 248.6 | 484.7 | 350.8 | 625.3 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| ATG16L1 | 471.5 | 618.6 | 481.2 | 388.6 | 298.8 | 569.5 | 335.2 | 564.5 |
| ATG16L2 | 219.4 | 233.2 | 186.4 | 189.6 | 242.8 | 262.8 | 195 | 230.6 |
| ATG3 | 187.1 | 207.3 | 125.1 | 116.7 | 122.6 | 125.2 | 181.6 | 209.8 |
| ATG4A | 264 | 400.2 | 225.9 | 248.2 | 216.7 | 305.5 | 232.4 | 334.6 |
| ATG4A | 90.4 | 108.5 | 78.4 | 81.3 | 78 | 85.9 | 87.5 | 102.5 |
| ATG4B | 75.3 | 80.3 | 93.7 | 87.7 | 91.1 | 92.5 | 80.7 | 84.5 |
| ATG4B | 1434.4 | 2089.5 | 744.2 | 431.2 | 467.3 | 254 | 1103.4 | 1576.1 |
| ATG4C | 85.4 | 93.1 | 94.3 | 89 | 71.7 | 90.2 | 86.8 | 88.6 |
| ATG4D | 124.9 | 146.8 | 91.7 | 85.5 | 88.3 | 89.5 | 116.7 | 146.8 |
| ATG5 | 341.8 | 412 | 223.9 | 257.4 | 207.8 | 277 | 314.2 | 520.8 |
| ATG7 | 808.9 | 1109.4 | 591.5 | 721.5 | 559.1 | 820.9 | 673.2 | 720.6 |
| ATG9A | 83.1 | 89.1 | 83.9 | 77.8 | 83.2 | 79.2 | 85.6 | 85.9 |
| ATG9A | 208.8 | 304 | 305.3 | 300.9 | 261.1 | 457.2 | 219.5 | 417.3 |
| ATG9A | 185.9 | 261 | 257 | 201.6 | 200.5 | 270.8 | 205.7 | 409.5 |
| ATG9B | 90.4 | 99 | 81.6 | 87.7 | 85.7 | 86.8 | 91.2 | 94.1 |
| ATHL1 | 161.3 | 154.5 | 176.4 | 185.4 | 181.7 | 298.3 | 139.2 | 171.5 |
| ATIC | 5995.7 | 7402.4 | 4828.3 | 3161.1 | 1911.8 | 2715.4 | 4408.9 | 5224.6 |
| ATM | 97.1 | 119.9 | 103.4 | 92.9 | 92.4 | 92.9 | 95.9 | 99.8 |
| ATM | 572.8 | 878 | 345.9 | 664.7 | 556.7 | 890.1 | 548 | 676.8 |
| ATM | 82.5 | 95.4 | 71.8 | 81.9 | 70.7 | 77.8 | 81.3 | 88.4 |
| ATN1 | 103.9 | 118 | 84.9 | 87.1 | 83.2 | 94 | 105.3 | 120.3 |
| ATN1 | 116.9 | 137.3 | 128.4 | 134.1 | 135.2 | 160 | 120.1 | 159.9 |
| ATN1 | 89.3 | 102.3 | 86.4 | 88.5 | 73.8 | 72.2 | 79.6 | 102.7 |
| ATOH1 | 96.8 | 106.6 | 96.5 | 90 | 85.2 | 83.4 | 93.7 | 99.8 |
| ATOH7 | 90.3 | 102.8 | 94 | 80.3 | 90.6 | 87 | 97.2 | 110.7 |
| ATOH8 | 97.1 | 102.1 | 91.7 | 79.4 | 82.6 | 90.1 | 102.9 | 103.2 |
| ATOX1 | 3360 | 3948 | 2504.6 | 1895.7 | 1509.3 | 1954.9 | 3688.2 | 3553 |
| ATP10A | 101.6 | 132.4 | 102.9 | 100.5 | 77.9 | 85.8 | 114.3 | 150.2 |
| ATP10D | 154.5 | 190.5 | 123.8 | 120.8 | 106.7 | 119.5 | 134.9 | 143.9 |
| ATP11A | 99.7 | 122.6 | 87.8 | 89.5 | 74.3 | 91.2 | 102.3 | 111 |
| ATP11A | 84.6 | 90.5 | 92 | 77.6 | 76.4 | 90.1 | 82.1 | 96.8 |
| ATP11B | 232 | 262.1 | 172 | 250.9 | 187.7 | 297.4 | 224.6 | 359.5 |
| ATP11C | 158.1 | 237.9 | 128.8 | 130.7 | 111.1 | 137.1 | 148 | 194.8 |
| ATP11C | 330.2 | 417.3 | 200.5 | 270.8 | 203.3 | 366.7 | 306.3 | 465.9 |
| ATP12A | 107.5 | 132.3 | 95.6 | 79.7 | 100.4 | 84.8 | 102 | 113.7 |
| ATP13A1 | 738.6 | 902.2 | 481.3 | 391.9 | 367.9 | 352.1 | 540.7 | 563.4 |
| ATP13A2 | 116.4 | 145 | 140.7 | 113.8 | 126.7 | 126.3 | 114.6 | 177.5 |
| ATP13A4 | 94.2 | 104 | 86.4 | 92.7 | 77.6 | 76.7 | 89.4 | 98.2 |
| ATP13A5 | 69.6 | 91.2 | 90.4 | 83.9 | 84.7 | 84.5 | 83.9 | 96.7 |
| ATP1A1 | 2112.4 | 2663.4 | 2439.2 | 1563.3 | 1209.7 | 1972.6 | 1842.8 | 2140.7 |
| ATP1A1 | 4658.8 | 5968.4 | 2648 | 1947.4 | 1897.9 | 2511.2 | 4054 | 6375.2 |
| ATP1A1 | 1474.9 | 2345.8 | 857.4 | 348.5 | 277.3 | 323.1 | 1215.5 | 1720.3 |
| ATP1A2 | 80.4 | 80.5 | 84.8 | 88.8 | 83.1 | 76.7 | 84.3 | 85 |
| ATP1A3 | 116.1 | 118.9 | 105.8 | 96.7 | 102 | 104.3 | 102.9 | 104.4 |
| ATP1A4 | 88.6 | 94.2 | 97.1 | 92.2 | 84.4 | 84.3 | 86.8 | 93.4 |
| ATP1A4 | 98.2 | 116.7 | 101.6 | 85.2 | 86.2 | 91.1 | 97.8 | 110.9 |
| ATP1B1 | 230.2 | 312.7 | 138.6 | 261.6 | 195.5 | 257.2 | 231.5 | 421.6 |
| ATP1B1 | 492.4 | 632.9 | 320.5 | 643.4 | 431.8 | 601.4 | 469.7 | 794.5 |
| ATP1B1 | 389.8 | 525 | 196.7 | 300.5 | 237.3 | 257.7 | 337.3 | 429.6 |
| ATP1B2 | 309.6 | 478.6 | 182.2 | 225.4 | 192.2 | 201.3 | 329.6 | 374.6 |

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|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| ATP1B3 | 4718.9 | 5793.8 | 2139.5 | 1753.7 | 898.7 | 1596.5 | 5710.8 | 8036.3 |
| ATP1B3 | 818.8 | 1148.9 | 346.2 | 308.7 | 244.3 | 341.2 | 625.2 | 760.3 |
| ATP1B3 | 4234.8 | 4536.3 | 926.1 | 868.4 | 680.1 | 1007.4 | 4182 | 6679.3 |
| ATP1B4 | 76 | 89 | 104.1 | 92.1 | 87.1 | 95.1 | 88 | 90.3 |
| ATP2A1 | 84.5 | 93.6 | 96.8 | 88.8 | 83.4 | 81.9 | 89.7 | 94.2 |
| ATP2A2 | 554.1 | 915.1 | 633.1 | 705.4 | 620.1 | 1062.7 | 620.1 | 878.9 |
| ATP2A2 | 934.6 | 1114 | 911.7 | 1264.3 | 959.6 | 1682.3 | 991 | 2474 |
| ATP2A2 | 574.6 | 792.7 | 585.6 | 561.9 | 481.6 | 911.2 | 600.1 | 1012.2 |
| ATP2A3 | 131.5 | 134 | 120.6 | 111.1 | 103.9 | 108.8 | 129.5 | 120.5 |
| ATP2A3 | 102.4 | 121.2 | 108.2 | 110.6 | 107 | 141.2 | 113.8 | 127.8 |
| ATP2B1 | 113.2 | 129.4 | 105.8 | 102.6 | 95.4 | 107 | 111 | 136.8 |
| ATP2B1 | 92 | 119.9 | 106.7 | 82.8 | 83.2 | 93 | 103 | 110.9 |
| ATP2B2 | 94 | 116.1 | 93.6 | 89 | 89.4 | 91.7 | 91.6 | 96.7 |
| ATP2B2 | 84.3 | 94 | 95.8 | 86.3 | 95 | 87.2 | 86.4 | 94.3 |
| ATP2B2 | 81.3 | 98.1 | 85 | 86.1 | 87.6 | 78.5 | 86.2 | 91.3 |
| ATP2B3 | 274 | 316.7 | 199.4 | 253.5 | 205.4 | 274.4 | 252.2 | 320 |
| ATP2B3 | 120 | 131.9 | 89.6 | 88.6 | 83.3 | 88.5 | 109.2 | 123.9 |
| ATP2B3 | 86.5 | 86.8 | 101 | 96.7 | 99.1 | 96.7 | 81.1 | 91.2 |
| ATP2B4 | 115.4 | 151.3 | 96 | 116.9 | 121.7 | 110.7 | 110.9 | 127.5 |
| ATP2B4 | 503.7 | 857.1 | 498.8 | 863.3 | 872.7 | 1198.9 | 513.4 | 631.8 |
| ATP2C1 | 233.6 | 287.2 | 180 | 232.3 | 173.6 | 263.2 | 208.2 | 304.1 |
| ATP2C1 | 157 | 212.7 | 111.9 | 123.5 | 101.2 | 107.4 | 145.6 | 213.9 |
| ATP2C1 | 558.1 | 757.5 | 364.1 | 337.6 | 250.7 | 449.2 | 378.6 | 564.5 |
| ATP4A | 104.8 | 121.7 | 91.1 | 84.6 | 79.2 | 81.6 | 86.6 | 112.1 |
| ATP4B | 101.8 | 100.2 | 94.3 | 91.5 | 84.1 | 93.3 | 94.5 | 93.4 |
| ATP4B | 94 | 99.5 | 102.4 | 84.7 | 85.6 | 86.1 | 91.6 | 99.6 |
| ATP5A1 | 19414.9 | 24068.4 | 17472.1 | 17314.9 | 13342.1 | 19054.8 | 16875.6 | 23345.7 |
| ATP5A1 | 21701.3 | 25463.5 | 15829.2 | 16992.8 | 13500.7 | 16899.7 | 19161.4 | 23137.8 |
| ATP5B | 22424.7 | 27829.4 | 17992.7 | 18643.9 | 14221.4 | 21480.2 | 19262.1 | 20982.5 |
| ATP5C1 | 4337.7 | 5719.2 | 2664.2 | 1792.6 | 1356 | 2608.3 | 3821.1 | 6656.9 |
| ATP5D | 476 | 586.6 | 538 | 416 | 303.1 | 411.8 | 496.8 | 873.5 |
| ATP5D | 5261.9 | 6547.9 | 5003.8 | 2915.2 | 2028.2 | 2829.7 | 4502.1 | 9048 |
| ATP5F1 | 6644.4 | 7873.4 | 2071 | 968.6 | 916.7 | 1231.9 | 5436.8 | 6286.9 |
| ATP5F1 | 19374.6 | 21801 | 10115.4 | 6616.9 | 5216.9 | 7994 | 16840.2 | 23206.4 |
| ATP5G1 | 286.2 | 337.5 | 178.1 | 162.8 | 137.5 | 170.7 | 246.9 | 252.8 |
| ATP5G1 | 6479.9 | 7518.3 | 5466.3 | 4923.9 | 3786.1 | 4182.6 | 6217.5 | 6047.6 |
| ATP5G2 | 84.9 | 88.6 | 95.2 | 100.8 | 89.4 | 79.6 | 86.6 | 89.2 |
| ATP5G2 | 228 | 254.9 | 197.1 | 134.4 | 111.2 | 105.6 | 182 | 219.8 |
| ATP5G2 | 8637.9 | 11007.7 | 5974.8 | 2900.9 | 2300.6 | 2474.6 | 7966.5 | 8390.5 |
| ATP5G3 | 369.3 | 434.1 | 220.9 | 243.4 | 193.8 | 240.4 | 293.6 | 435.6 |
| ATP5H | 10429.4 | 11138.7 | 6483.6 | 6483.7 | 4753.8 | 7159.3 | 9517.2 | 14305.5 |
| ATP5H | 10452.5 | 12507.6 | 8102 | 7825.4 | 5669.9 | 8857.6 | 9815 | 15488.9 |
| ATP5I | 13661.4 | 14263.5 | 10820.4 | 10082.6 | 8279.5 | 9646.9 | 12967.6 | 15392.1 |
| ATP5I | 1053 | 1294.4 | 904.9 | 766.9 | 642.1 | 825.8 | 868.9 | 999.1 |
| ATP5J | 1376.1 | 1659.8 | 647.3 | 755.1 | 529.9 | 771 | 1157.4 | 1169 |
| ATP5J | 13415.2 | 17353.9 | 10448 | 10642.7 | 8716.1 | 11707.8 | 11219.1 | 13309.9 |
| ATP5J | 14941.5 | 17507.4 | 11267 | 11802.5 | 9243.4 | 13857.3 | 12936.1 | 13956.7 |
| ATP5J2 | 6942.7 | 7591.4 | 4381.9 | 4110.3 | 3321.8 | 4644.5 | 6577.2 | 7353.8 |
| ATP5J2 | 8899 | 9905.8 | 6226.1 | 5808.5 | 4651 | 6191 | 8660.6 | 10712.5 |
| ATP5L | 682.4 | 836.2 | 210.2 | 266 | 225 | 268.4 | 651.6 | 1050.7 |

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|-----------|---------|---------|--------|--------|--------|--------|--------|---------|
| ATP5O | 12195.3 | 14322.2 | 7062 | 7740.5 | 6057.2 | 8299 | 10784 | 14695.9 |
| ATP5S | 390.7 | 418.1 | 189.1 | 212.2 | 169.7 | 231 | 315.9 | 403.8 |
| ATP5S | 356.4 | 467.6 | 158.2 | 132.4 | 143.4 | 141 | 266 | 336.3 |
| ATP6AP1 | 4743.1 | 6584 | 3583.6 | 4299.7 | 3819.2 | 4448.1 | 4758.9 | 4303.7 |
| ATP6AP2 | 4286.4 | 5545.8 | 1796.3 | 2423.9 | 2143.3 | 3326.6 | 4235.5 | 6089.2 |
| ATP6VOA1 | 876.8 | 1095.5 | 642.2 | 724.5 | 629.9 | 713 | 992.1 | 1087.3 |
| ATP6VOA2 | 421 | 581.4 | 338.8 | 294.8 | 227.4 | 307 | 382.3 | 500.9 |
| ATP6VOA4 | 90 | 93.3 | 99.5 | 91 | 85 | 79.5 | 95.7 | 97.5 |
| ATP6VOA4 | 110.3 | 107.8 | 95.4 | 98 | 92.5 | 92.6 | 110.8 | 110.4 |
| ATP6VOA4 | 84 | 103.4 | 84.9 | 81.9 | 76 | 83.6 | 87.8 | 85.5 |
| ATP6VOA4 | 72 | 83.5 | 94.2 | 91.6 | 97.2 | 96.2 | 73.3 | 72.2 |
| ATP6VOB | 6965.2 | 8956.3 | 6174.4 | 5411.2 | 4314.7 | 5197.5 | 7767.4 | 10379.1 |
| ATP6VOB | 709.5 | 742.6 | 188.7 | 170.6 | 151.6 | 206.5 | 669 | 830.8 |
| ATP6VOC | 604.2 | 951.6 | 485 | 280.9 | 215.3 | 262.7 | 562.6 | 945.2 |
| ATP6VOD1 | 1302.9 | 1838.8 | 1132.1 | 805.7 | 654.5 | 931 | 1318.1 | 1802.9 |
| ATP6VOD2 | 99.3 | 132.5 | 90.2 | 87.1 | 87.8 | 86.6 | 98.2 | 113.8 |
| ATP6VOE1 | 6549.8 | 7655.8 | 4154 | 5047.1 | 3683.6 | 4375.9 | 7224.1 | 8256.1 |
| ATP6VOE2L | 1626.9 | 1970.9 | 1111.4 | 712.5 | 593.2 | 593.4 | 1186.5 | 1218.7 |
| ATP6V1A | 3242.2 | 3889.8 | 2050.9 | 3661.8 | 2744.1 | 4415.6 | 4094.5 | 5961.3 |
| ATP6V1B1 | 415.3 | 392 | 277.1 | 232.7 | 266.8 | 261.9 | 326 | 382.6 |
| ATP6V1B2 | 9456.1 | 12445.6 | 8803.7 | 5931.8 | 4656.5 | 6528.6 | 7926 | 10968.2 |
| ATP6V1C1 | 326.7 | 424.2 | 258.7 | 340.9 | 237.6 | 441.1 | 314.4 | 632.7 |
| ATP6V1C1 | 139.5 | 177.4 | 103.6 | 81.1 | 85.8 | 104.4 | 136.5 | 207.9 |
| ATP6V1C2 | 93.7 | 116.5 | 94.4 | 131.8 | 131.3 | 153.7 | 91.5 | 98.4 |
| ATP6V1C2 | 78.9 | 82 | 83.1 | 86.4 | 80.9 | 76.6 | 83.7 | 79.6 |
| ATP6V1D | 1440.1 | 1985.8 | 1031 | 882.7 | 653.5 | 1086.6 | 1311.2 | 2231.3 |
| ATP6V1E1 | 5001.7 | 6418.8 | 3446.5 | 3430.8 | 2891.3 | 3987.9 | 4703.8 | 5129.6 |
| ATP6V1E1 | 3460.6 | 4201.4 | 3029.6 | 3263.6 | 2748.6 | 3219.1 | 3378.6 | 3802.3 |
| ATP6V1E2 | 282 | 351.4 | 207.9 | 246.4 | 219 | 308.8 | 239.4 | 295.6 |
| ATP6V1F | 4047.2 | 5578.5 | 2548.8 | 2464.5 | 2075 | 2450.1 | 4539.8 | 5565.9 |
| ATP6V1G1 | 4368.5 | 5174.6 | 2101.9 | 2404.4 | 1912 | 3154.7 | 4122.7 | 6465.7 |
| ATP6V1G2 | 188.7 | 220.9 | 144.3 | 113.8 | 98.9 | 121.4 | 158.5 | 213.5 |
| ATP6V1G2 | 92.3 | 111.4 | 92.7 | 92.1 | 88.9 | 85 | 98.5 | 100.3 |
| ATP6V1G3 | 86 | 86.2 | 95.2 | 92.9 | 81 | 87.4 | 84.4 | 94.1 |
| ATP6V1H | 110.2 | 102.4 | 96.2 | 81.6 | 83.6 | 95.8 | 94.2 | 120.3 |
| ATP6V1H | 627 | 1002.1 | 429.3 | 340.1 | 241.1 | 459.8 | 730.5 | 1354.5 |
| ATP7A | 93.1 | 110.8 | 96.4 | 114.8 | 106.8 | 150.9 | 97.2 | 121.8 |
| ATP7B | 154.4 | 187.9 | 103.2 | 101.8 | 93.9 | 99.4 | 147.1 | 162.6 |
| ATP7B | 113.8 | 120.6 | 131.4 | 180 | 153.4 | 205.6 | 99.7 | 136.3 |
| ATP8A1 | 107.3 | 117.9 | 90.5 | 86.4 | 83.4 | 95.9 | 103 | 103.9 |
| ATP8A2 | 110.4 | 126.6 | 119.4 | 98.5 | 101.3 | 108.3 | 104 | 99.3 |
| ATP8B1 | 137.9 | 151 | 90.6 | 99 | 84.4 | 93.8 | 116.7 | 138.2 |
| ATP8B2 | 144.2 | 129.2 | 107.9 | 97.3 | 92.1 | 83.6 | 113.9 | 169.5 |
| ATP8B2 | 312 | 407.5 | 186.1 | 143.4 | 153.5 | 152.3 | 268.2 | 309.9 |
| ATP8B3 | 226.5 | 267.8 | 179.9 | 205.9 | 203.7 | 237.9 | 185.6 | 202.9 |
| ATP8B4 | 3721.5 | 5316.5 | 2855.9 | 5209.3 | 3949.9 | 7809.1 | 3203.6 | 3665.2 |
| ATP9A | 217.8 | 342 | 217 | 373.5 | 274.8 | 415.2 | 235.1 | 284.7 |
| ATP9B | 147.4 | 160.7 | 125.4 | 121.2 | 109.3 | 148.4 | 157 | 181.2 |
| ATPAF1 | 946.3 | 1266.7 | 555.3 | 371.4 | 288.8 | 452.8 | 846.1 | 942.9 |
| ATPAF1 | 581.3 | 739.9 | 468.9 | 389.5 | 275.6 | 442.8 | 442.9 | 463.7 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| ATPAF2 | 136.3 | 169.4 | 124.3 | 118.4 | 115.4 | 137.6 | 126.9 | 146.9 |
| ATPBD1B | 983.5 | 1350.9 | 666.6 | 606.9 | 504.1 | 555.9 | 792.8 | 772 |
| ATPBD1C | 86.8 | 91.8 | 89 | 86.2 | 85.8 | 89 | 85.1 | 86.8 |
| ATPBD3 | 173.1 | 234.1 | 147.3 | 122.8 | 105.4 | 120.2 | 196.7 | 192.5 |
| ATPBD4 | 228.7 | 264.2 | 119.9 | 127 | 86.9 | 126.9 | 203.6 | 266.7 |
| ATPIF1 | 1229.6 | 1548.5 | 571.6 | 487.7 | 442 | 455.6 | 1089.1 | 1210.1 |
| ATPIF1 | 187.5 | 199.2 | 120.7 | 125.9 | 105.9 | 145.1 | 152.6 | 249.2 |
| ATR | 73.5 | 89.3 | 90.6 | 91.9 | 73.4 | 90.2 | 81.5 | 91 |
| ATR | 101.7 | 134 | 80.8 | 90.7 | 81.1 | 82.4 | 106.8 | 121.9 |
| ATR | 91.3 | 113.7 | 107.4 | 95.7 | 88 | 92.1 | 101 | 102.7 |
| ATRN | 101.4 | 140.2 | 101.6 | 142 | 118.7 | 148.5 | 110.5 | 188.1 |
| ATRN | 104 | 123.6 | 89.1 | 94.6 | 88.4 | 86.4 | 102.7 | 114.6 |
| ATRN11 | 84.7 | 101.2 | 108.6 | 89.9 | 90.4 | 79.3 | 84.6 | 88.7 |
| ATRX | 146.5 | 182.1 | 101.6 | 103 | 96 | 97.1 | 121.1 | 141.5 |
| ATRX | 72.2 | 87.8 | 81.6 | 83.8 | 82.5 | 83.4 | 78 | 82.5 |
| ATRX | 83.9 | 99.3 | 80 | 79 | 82.7 | 78.3 | 91.6 | 114.2 |
| ATXN1 | 134.3 | 171.9 | 127.8 | 161.7 | 134.9 | 165.6 | 145.4 | 198.6 |
| ATXN10 | 178.2 | 231.2 | 97 | 133.2 | 118.1 | 124.6 | 151.6 | 221.7 |
| ATXN2 | 1164.4 | 1491.1 | 889.6 | 1342.1 | 1040.6 | 1219.2 | 1124.8 | 1321.4 |
| ATXN2L | 117.3 | 125.3 | 176 | 157.2 | 146.1 | 261.1 | 117.9 | 135.1 |
| ATXN2L | 114.4 | 110.3 | 114.9 | 101.8 | 100.2 | 98.9 | 95.3 | 122.4 |
| ATXN3 | 332.2 | 487.8 | 254.1 | 335.2 | 312.7 | 289 | 390.7 | 432.1 |
| ATXN3 | 123.4 | 142.9 | 100.3 | 102.9 | 103.3 | 101.3 | 119.1 | 138.9 |
| ATXN7 | 96.7 | 112.8 | 88.5 | 81.2 | 82.6 | 87 | 106.6 | 119.6 |
| ATXN7L2 | 182.9 | 218.5 | 182.8 | 115.8 | 116.6 | 125.4 | 175.7 | 301.9 |
| ATXN7L4 | 101.9 | 114.8 | 96.5 | 97.9 | 88.3 | 95.2 | 86.8 | 98.1 |
| ATXN8OS | 84.7 | 83 | 94.1 | 88.6 | 84.4 | 92.3 | 81.3 | 80.1 |
| AUH | 293 | 425.9 | 210.5 | 155.5 | 167.1 | 230.1 | 235.1 | 264.9 |
| AUP1 | 1283.8 | 1336 | 374.2 | 332.2 | 275 | 351.6 | 1223.5 | 1804.4 |
| AURKA | 3392.3 | 4228 | 2908 | 2570.8 | 2212.6 | 2917.8 | 3018.3 | 4295 |
| AURKA | 2961.1 | 3930.1 | 2552.3 | 2180.2 | 1690.6 | 2463.2 | 2882.2 | 4393.7 |
| AURKAIP1 | 7196 | 8390.7 | 5515.7 | 4859.3 | 4314.4 | 5417.6 | 6241.6 | 5932.3 |
| AURKB | 1012.3 | 1121.2 | 967.9 | 437.2 | 379.8 | 536.4 | 850.6 | 1217.4 |
| AURKC | 86.3 | 103.5 | 88.7 | 79.3 | 76 | 86.8 | 87.4 | 90.1 |
| AURKC | 75 | 90.9 | 90.4 | 83.3 | 74.6 | 89.6 | 78.1 | 90.2 |
| AURKC | 139 | 170.8 | 106.3 | 87.5 | 83.7 | 92.9 | 139.6 | 157.9 |
| AUTS2 | 88.1 | 103.8 | 99.8 | 82.6 | 81 | 82.2 | 100.3 | 86.5 |
| AVEN | 287 | 345.8 | 151 | 139.4 | 135.9 | 167.4 | 279.3 | 475.6 |
| AVIL | 105.5 | 121.9 | 113.3 | 110.4 | 96.5 | 102.5 | 104.3 | 102.9 |
| AVP | 101.6 | 117.5 | 109.3 | 96 | 84.8 | 91.7 | 111 | 110.4 |
| AVPI1 | 346.2 | 475.8 | 281 | 231.4 | 185.6 | 237.8 | 363.8 | 360.4 |
| AVPR1A | 93.8 | 110.6 | 100.8 | 89.5 | 86.3 | 84.6 | 97.4 | 106.7 |
| AVPR1B | 106.8 | 127.4 | 92.9 | 87.4 | 73.5 | 84.9 | 93.3 | 128.8 |
| AVPR2 | 124.4 | 145.4 | 91.1 | 78.9 | 80.1 | 81.7 | 109.7 | 128.6 |
| AXIIR | 895.1 | 1025.4 | 755.4 | 980.1 | 823.8 | 1112.4 | 667.3 | 759.5 |
| AXIN1 | 654.8 | 697.6 | 875 | 710.1 | 642.4 | 972.8 | 611.7 | 1244.9 |
| AXIN1 | 103.1 | 118.5 | 90.8 | 81.8 | 87 | 111.8 | 100.6 | 117.6 |
| AXIN2 | 89 | 100.4 | 102.2 | 90.8 | 85.3 | 91.1 | 92.2 | 108.5 |
| AXL | 249.9 | 312.1 | 191.6 | 362.2 | 240.6 | 232.2 | 220.9 | 212.3 |
| AXL | 248.9 | 301.2 | 170.7 | 357.6 | 230.2 | 294.9 | 179.1 | 236.6 |

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|----------|---------|---------|---------|--------|--------|--------|---------|---------|
| AXUD1 | 309.2 | 400.6 | 272.3 | 269.8 | 273.6 | 277.9 | 381 | 475.5 |
| AYP1 | 118.5 | 127.7 | 109.8 | 104.8 | 106.7 | 101.4 | 104.5 | 117.9 |
| AYTL1 | 259.7 | 341.3 | 140 | 121.9 | 108.8 | 122.2 | 206.4 | 250.9 |
| AYTL2 | 633.9 | 806.6 | 377.1 | 237.7 | 197.4 | 227.7 | 509.1 | 513.3 |
| AZGP1 | 116.3 | 141.8 | 111.2 | 91 | 96.8 | 95.7 | 117.6 | 155.5 |
| AZI1 | 584.5 | 734.7 | 505.6 | 533.7 | 495.1 | 533 | 392.5 | 413.6 |
| AZI1 | 132.8 | 152.1 | 89.8 | 85.6 | 77.6 | 86.3 | 120.9 | 137.2 |
| AZI2 | 544.5 | 720.2 | 177.4 | 253.2 | 178.2 | 342.4 | 427.9 | 678.9 |
| AZIN1 | 4479.6 | 5794.1 | 2982.2 | 3284 | 2253.5 | 4388.5 | 3941.2 | 5680.7 |
| AZIN1 | 563.2 | 781.5 | 207.5 | 217 | 157.2 | 163.5 | 324.3 | 488.3 |
| AZIN1 | 297.9 | 371 | 162.6 | 145 | 113.4 | 175.6 | 299.1 | 535.5 |
| AZU1 | 13000.7 | 15809.2 | 13333.6 | 9574.1 | 7633.9 | 9828.3 | 10130.6 | 14989 |
| B2M | 11781.2 | 12771.4 | 3197.7 | 3208.6 | 2560.6 | 3649.5 | 10812.4 | 11565.7 |
| B3GALNT1 | 416.6 | 536 | 289.7 | 284.1 | 215.8 | 360.1 | 344.3 | 461.7 |
| B3GALNT2 | 449.9 | 633.4 | 266.6 | 236.2 | 178.3 | 218.2 | 378.9 | 498.7 |
| B3GALT1 | 103.8 | 117.4 | 116.2 | 100.9 | 103.8 | 102.1 | 101.7 | 100.3 |
| B3GALT2 | 109 | 123.7 | 103.8 | 98.5 | 90.6 | 92.9 | 113.8 | 124.8 |
| B3GALT3 | 167.1 | 222.1 | 125.6 | 131.8 | 118 | 153 | 155.6 | 174.7 |
| B3GALT3 | 119.3 | 142.1 | 95.8 | 94.1 | 84.4 | 89.8 | 99.3 | 114.1 |
| B3GALT3 | 180.3 | 206 | 104.5 | 96.5 | 102.2 | 109.8 | 147.3 | 196.7 |
| B3GALT4 | 118.4 | 127.7 | 99.8 | 97.5 | 117.4 | 113.7 | 111.1 | 118.5 |
| B3GALT5 | 88.7 | 92.2 | 84.7 | 79.1 | 75.2 | 87.4 | 84.6 | 91.9 |
| B3GALT5 | 103.2 | 114.9 | 96.7 | 89.4 | 83.2 | 89.3 | 105.8 | 117.6 |
| B3GALT5 | 74.3 | 98.1 | 88 | 91.5 | 71.4 | 77.5 | 91.1 | 87.9 |
| B3GALT6 | 466.3 | 608.9 | 477.5 | 555.2 | 414.1 | 654.8 | 467.5 | 945.1 |
| B3GALT7 | 192.8 | 261.8 | 137.6 | 136.6 | 130.8 | 166.2 | 197.4 | 280.5 |
| B3GAT1 | 100.7 | 117.1 | 100.8 | 97 | 104.4 | 99.1 | 94 | 108.3 |
| B3GAT1 | 107 | 120.8 | 83.8 | 79.8 | 74.3 | 85.2 | 98.6 | 118.4 |
| B3GAT1 | 81.7 | 97.4 | 97.7 | 93.9 | 95.1 | 99.2 | 94.3 | 96 |
| B3GAT2 | 82.7 | 83.5 | 100.8 | 90.8 | 86.5 | 96.7 | 80.8 | 87.2 |
| B3GAT3 | 233.8 | 254.7 | 255.4 | 193.9 | 167.7 | 215.7 | 181.7 | 221.1 |
| B3GNT1 | 724.1 | 1154.1 | 380.5 | 307.4 | 259.8 | 475.5 | 453.1 | 641 |
| B3GNT3 | 136.6 | 151.9 | 93.4 | 98.2 | 90.3 | 96 | 123.8 | 142.9 |
| B3GNT4 | 121.3 | 155.1 | 95.9 | 83.3 | 92.3 | 93.7 | 113 | 132.1 |
| B3GNT5 | 122.4 | 122.6 | 103.8 | 101.2 | 98.1 | 137.5 | 106.9 | 159.7 |
| B3GNT6 | 280.4 | 379.9 | 259 | 194.5 | 176.4 | 204.8 | 198.2 | 255.7 |
| B3GN-T6 | 100.2 | 111 | 93 | 78.9 | 77.4 | 76.3 | 99.6 | 126.7 |
| B3GNT7 | 86.7 | 102.4 | 99.3 | 113.2 | 93 | 94.5 | 96.7 | 90.3 |
| B3GNTL1 | 216.3 | 260.2 | 184.4 | 188.1 | 154.3 | 184.7 | 172.4 | 211.1 |
| B3GTL | 221.9 | 259.8 | 201 | 159.9 | 128.5 | 166.7 | 163.4 | 223.7 |
| B4GALNT2 | 92 | 90.9 | 102.3 | 82.8 | 82.2 | 88 | 89.5 | 94.2 |
| B4GALNT3 | 92.6 | 97.2 | 93.7 | 83.5 | 77.2 | 87.1 | 86.2 | 94.4 |
| B4GALNT4 | 76.3 | 87.4 | 79.7 | 77.5 | 83.8 | 82.3 | 80.2 | 89.6 |
| B4GALT1 | 247.6 | 301.4 | 137.1 | 153.1 | 142.1 | 145.9 | 263 | 388.3 |
| B4GALT2 | 93.6 | 110.6 | 108.5 | 97.4 | 88.2 | 94.6 | 94.5 | 87.5 |
| B4GALT2 | 111.6 | 139.1 | 108.7 | 97.7 | 102.7 | 102.1 | 109.7 | 135.7 |
| B4GALT2 | 144.3 | 170.3 | 105 | 85.5 | 90.1 | 90.7 | 119.4 | 197.8 |
| B4GALT3 | 2246.8 | 2798.7 | 1484 | 1043.8 | 771.2 | 872 | 2210.3 | 2137.1 |
| B4GALT4 | 290.5 | 420.4 | 171.5 | 147.5 | 153.2 | 218.4 | 299.5 | 416.5 |
| B4GALT4 | 135.4 | 164.1 | 152.7 | 128.4 | 128.3 | 143.3 | 155.6 | 186.1 |

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|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| B4GALT5 | 2139.6 | 2514 | 1220.2 | 1677.6 | 989.9 | 1805 | 1811.4 | 2342.2 |
| B4GALT6 | 112.9 | 138 | 110.9 | 101.4 | 89.2 | 111.1 | 100.2 | 126 |
| B4GALT7 | 821.3 | 1020 | 504.7 | 491.8 | 417.8 | 445.4 | 629.2 | 523 |
| BA16L21.2. | 294.9 | 333.2 | 150.3 | 152.2 | 130.1 | 183.6 | 222.7 | 335.1 |
| BA9F11.1 | 87.5 | 111.7 | 77.5 | 86.5 | 76.7 | 79.7 | 92.8 | 96.9 |
| BAALC | 125.5 | 128.8 | 110 | 111 | 97.3 | 112.5 | 115 | 136.6 |
| BAALC | 101.3 | 97.8 | 102.8 | 95 | 85.2 | 99.5 | 91.5 | 104.3 |
| BAAT | 81.5 | 85.7 | 81.5 | 75.6 | 82 | 81.8 | 83 | 102.9 |
| BACE1 | 215.3 | 303.5 | 141.5 | 136.9 | 112.9 | 155.2 | 208.1 | 260 |
| BACE1 | 110.6 | 124.8 | 100 | 95.5 | 83.2 | 88.3 | 108.2 | 125.5 |
| BACE2 | 96.7 | 119.4 | 93.8 | 85.9 | 85 | 79.3 | 106.9 | 125.8 |
| BACE2 | 117.2 | 115.6 | 89.5 | 94 | 93.2 | 86.1 | 105.2 | 115.2 |
| BACH1 | 161 | 219.5 | 101 | 104.8 | 105.9 | 94.6 | 176.3 | 198.9 |
| BACH1 | 93.5 | 99.6 | 85.5 | 82.7 | 80.4 | 81.7 | 97.4 | 105.2 |
| BACH1 | 84.9 | 102.5 | 89.8 | 86.2 | 77.6 | 89.8 | 93.2 | 119.7 |
| BACH2 | 83.6 | 86.3 | 88.5 | 88.8 | 83.5 | 82.9 | 74.1 | 87.4 |
| BAD | 152.8 | 183.7 | 115.7 | 89.9 | 96.6 | 94.6 | 141 | 145.8 |
| BAD | 451.7 | 594.3 | 331.3 | 224.7 | 213.5 | 235.2 | 392.2 | 460 |
| BAD | 100.4 | 117.2 | 102.4 | 93.1 | 85.6 | 89.3 | 96.3 | 104.2 |
| BAG1 | 182.5 | 248.5 | 148.6 | 109.6 | 111.4 | 119 | 182.6 | 261 |
| BAG3 | 980.2 | 1253.6 | 694.2 | 353.9 | 322.6 | 351.4 | 1199 | 1868.2 |
| BAG4 | 333.9 | 434.5 | 150.1 | 133.7 | 115.8 | 127.2 | 289.4 | 400 |
| BAG5 | 1600.1 | 1837.1 | 1331.1 | 1359.2 | 975 | 1317 | 1215 | 1953.9 |
| BAG5 | 112.9 | 134.3 | 99.4 | 88.9 | 78.8 | 86.7 | 98.6 | 126.5 |
| BAG5 | 82.8 | 105.9 | 87 | 91.9 | 78.7 | 90.4 | 88.8 | 100.9 |
| BAG5 | 396 | 546 | 273.8 | 249.1 | 223 | 374.8 | 285.7 | 471 |
| BAGE | 138.7 | 165 | 100.2 | 96.9 | 93.4 | 106.1 | 144.4 | 154.3 |
| BAGE2 | 94.3 | 114.9 | 91.3 | 88 | 81 | 87.8 | 80.9 | 105.6 |
| BAGE3 | 88.6 | 112.3 | 94.9 | 90.2 | 90.8 | 87.1 | 96.6 | 109.9 |
| BAGE4 | 78.1 | 82.9 | 94.7 | 88.5 | 91.8 | 89 | 86.3 | 83.6 |
| BAGE5 | 123.2 | 159.7 | 104 | 104.6 | 104.2 | 113.6 | 123.8 | 147.5 |
| BAHD1 | 120.3 | 137.4 | 83.2 | 100.5 | 78.6 | 81.9 | 112.3 | 132.4 |
| BAI1 | 130.9 | 133.2 | 97.1 | 100.3 | 94.4 | 104.5 | 119.2 | 119.1 |
| BAI1 | 90.7 | 96.5 | 84.9 | 73.4 | 93.8 | 84.7 | 84.6 | 93.3 |
| BAI1 | 81.9 | 89.9 | 91 | 87.7 | 81.3 | 90.1 | 78.8 | 86.5 |
| BAI2 | 74.8 | 81.2 | 85.6 | 85 | 81.6 | 79.9 | 81.9 | 88.6 |
| BAI3 | 83.7 | 97.1 | 91.7 | 92 | 86.8 | 110.9 | 77.9 | 94.9 |
| BAIAP2 | 174.7 | 245.3 | 146.5 | 194 | 169.1 | 219.2 | 174.3 | 212.1 |
| BAIAP2 | 149.2 | 172.5 | 117.1 | 103.8 | 102.1 | 127.9 | 134 | 156.4 |
| BAIAP2 | 88 | 106.5 | 88.5 | 97.8 | 95.2 | 90.1 | 98.6 | 115.2 |
| BAIAP2 | 105.5 | 117.2 | 97 | 79.6 | 79.3 | 84.9 | 95 | 104.7 |
| BAIAP2L1 | 104.7 | 135 | 108.9 | 118.6 | 117.6 | 135.3 | 122.6 | 143.8 |
| BAIAP2L2 | 108.5 | 108 | 109.7 | 114.7 | 119.1 | 123.8 | 100.9 | 124.4 |
| BAIAP3 | 81.9 | 79.5 | 82.6 | 78.3 | 77.4 | 81.3 | 79 | 77.4 |
| BAK1 | 367.9 | 497.9 | 198.1 | 146.9 | 149.7 | 146 | 336.8 | 529.6 |
| BAMBI | 157.1 | 163.4 | 94.5 | 112.5 | 100.9 | 147.9 | 191.9 | 241.3 |
| BANF1 | 3724.5 | 4754.9 | 4330.8 | 2672.4 | 2207.9 | 3193.8 | 3477.7 | 5127.3 |
| BANK1 | 518.6 | 702 | 232.2 | 407.6 | 333 | 566.4 | 358.5 | 401.5 |
| BANP | 148.4 | 176.6 | 110.3 | 109.7 | 109 | 132 | 142.8 | 180 |
| BAP1 | 304.5 | 392.8 | 285.5 | 248.8 | 224.8 | 330.3 | 269.2 | 380.4 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| BAPX1 | 1035.6 | 1209.6 | 883.8 | 465.4 | 457.7 | 553.4 | 778.3 | 819.8 |
| BARD1 | 1100.6 | 1592.2 | 858.5 | 1047.2 | 975.3 | 948.4 | 1029.1 | 1165.2 |
| BARHL1 | 99.5 | 111.7 | 97.8 | 87.7 | 86.2 | 86.4 | 99.7 | 107.1 |
| BARHL2 | 113.8 | 153.2 | 86.4 | 86.7 | 79.4 | 84.6 | 136.8 | 134.6 |
| BARX1 | 843.8 | 1129.8 | 291 | 202 | 164 | 291.9 | 718.5 | 1208.4 |
| BARX2 | 121.3 | 136 | 102.8 | 109.4 | 104.6 | 108.3 | 108.7 | 128.9 |
| BASP1 | 3517.7 | 4452.7 | 2918.9 | 5201.6 | 3490.3 | 7848 | 3822.3 | 7740.9 |
| BAT1 | 2541.6 | 3208.7 | 2077.5 | 1962.7 | 1522.1 | 3158.5 | 1749.2 | 3375.9 |
| BAT1 | 141.7 | 187 | 89.6 | 83.3 | 80.8 | 91.9 | 113.6 | 139 |
| BAT1 | 122.9 | 155.2 | 98.1 | 103.4 | 94.5 | 107.7 | 113.2 | 145.8 |
| BAT2 | 247.1 | 352 | 581.6 | 559.2 | 495.3 | 835.1 | 254.4 | 432.4 |
| BAT2 | 382.2 | 506.4 | 881 | 893.3 | 707.5 | 1143.8 | 368.7 | 732.7 |
| BAT2D1 | 1262.4 | 2016.3 | 952.3 | 1508.9 | 1253 | 2664.2 | 1196 | 1497.2 |
| BAT3 | 313.2 | 448.2 | 348.9 | 265.5 | 240.5 | 238.6 | 249.2 | 335.3 |
| BAT3 | 260.8 | 335.4 | 280.2 | 291.7 | 245.4 | 386.6 | 275.2 | 415.1 |
| BAT4 | 239.9 | 304.6 | 137.3 | 108 | 115.7 | 121.1 | 239.8 | 280.4 |
| BAT5 | 787.9 | 1013.7 | 722.6 | 795.7 | 701 | 1066.7 | 718.1 | 1622.4 |
| BATF | 675.3 | 996.9 | 619.8 | 386.2 | 311.1 | 455.8 | 718.6 | 627.8 |
| BATF2 | 102.5 | 118.3 | 100.3 | 89.3 | 92 | 91.6 | 100.8 | 106.8 |
| BAX | 1312.1 | 1721.5 | 1386.2 | 1282.9 | 1076.4 | 1260.2 | 1417.4 | 1418.2 |
| BAX | 136.9 | 154.4 | 84.2 | 90.6 | 78.9 | 87.7 | 136.9 | 149.5 |
| BAX | 145.6 | 204.4 | 162.9 | 129.2 | 121.1 | 157.3 | 161.9 | 286.8 |
| BAZ1A | 2300.7 | 2804.7 | 1774 | 1744.6 | 1297.4 | 2928.4 | 1918.5 | 3777.9 |
| BAZ1A | 533.5 | 803.1 | 343.5 | 380.5 | 332.1 | 419.6 | 421.4 | 716.6 |
| BAZ1B | 804.7 | 1078.6 | 707.7 | 710.4 | 673.9 | 1211.6 | 775.7 | 1340.8 |
| BAZ2A | 91.3 | 114.9 | 103.5 | 94.3 | 92.9 | 97.4 | 103.6 | 124.3 |
| BAZ2B | 467.3 | 589.3 | 317.5 | 476.4 | 437 | 719.1 | 360.8 | 512.4 |
| BBC3 | 108 | 114.1 | 88 | 75.9 | 81 | 86.2 | 106.6 | 130.9 |
| BBOX1 | 107.3 | 139.6 | 80 | 82.1 | 73.2 | 83 | 101.3 | 147.8 |
| BBS1 | 139.8 | 163.7 | 143 | 141.9 | 138.6 | 157.8 | 109.2 | 141.9 |
| BBS12 | 108.9 | 110.9 | 124 | 113.2 | 110.7 | 122.9 | 104.8 | 97.1 |
| BBS2 | 309.9 | 357.4 | 193.6 | 300.9 | 291.7 | 406.9 | 245.6 | 291.9 |
| BBS4 | 318.8 | 340.5 | 226.6 | 239.3 | 214.6 | 305.1 | 282.2 | 320 |
| BBS5 | 123.4 | 121.8 | 106.2 | 93.2 | 94.6 | 90.3 | 115.1 | 125.1 |
| BBS5 | 122.2 | 118 | 90 | 89.6 | 85.9 | 82.9 | 102.5 | 110.5 |
| BBS5 | 85 | 95.8 | 95.2 | 94.5 | 82.7 | 90.3 | 80.2 | 90.7 |
| BBS7 | 114.3 | 114.5 | 98.3 | 95.8 | 87.4 | 105.2 | 111.4 | 136 |
| BBS7 | 239.6 | 255.8 | 168.4 | 156.2 | 128.5 | 197.2 | 213.1 | 271.8 |
| BBS7 | 92.8 | 93.1 | 90.4 | 85.9 | 81 | 85.5 | 83.5 | 101.4 |
| BBS9 | 134.5 | 135.4 | 85.1 | 78.3 | 77.7 | 97.1 | 106.7 | 122.2 |
| BBX | 317.2 | 420.9 | 219.1 | 260.2 | 265.7 | 269 | 266.1 | 511.2 |
| BC002942 | 366.1 | 441.3 | 484 | 540.1 | 417.6 | 683 | 309.5 | 726.3 |
| BC37295_3 | 85.4 | 91.4 | 81.6 | 84 | 80.7 | 80.4 | 89.3 | 91.9 |
| BCAM | 111.1 | 112.1 | 108 | 93.8 | 86.2 | 88.9 | 108.8 | 122.9 |
| BCAM | 87 | 98.9 | 90 | 81.6 | 92.4 | 82.5 | 84.7 | 94.5 |
| BCAM | 101.8 | 97.3 | 120.6 | 97.9 | 97.3 | 106 | 86.7 | 87.1 |
| BCAN | 149.8 | 205.9 | 118.9 | 111.9 | 107.6 | 106.4 | 143.5 | 175.5 |
| BCAN | 86.6 | 95 | 96.3 | 94.2 | 84.1 | 95.9 | 82.8 | 96.3 |
| BCAN | 93.6 | 104.1 | 92.8 | 87.7 | 83.4 | 84.1 | 89.4 | 109.2 |
| BCAP29 | 719.4 | 848.6 | 327.1 | 351.7 | 258.5 | 352.5 | 504.7 | 828.2 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| BCAP29 | 102 | 106.6 | 96.6 | 89.7 | 87.9 | 95.2 | 95.1 | 96.2 |
| BCAP29 | 694.5 | 816.5 | 260.8 | 295.4 | 213.6 | 313.3 | 511.8 | 781 |
| BCAP29 | 72.3 | 79.7 | 103.3 | 93.9 | 94.8 | 94.3 | 74.4 | 79.1 |
| BCAP29 | 331.9 | 412.5 | 257.5 | 299.5 | 239 | 337.6 | 278.9 | 388.1 |
| BCAP31 | 4044.3 | 5541.6 | 2988.6 | 2702.8 | 2071.8 | 2856 | 4551 | 6442.4 |
| BCAR1 | 104.5 | 125.2 | 115 | 103.6 | 91.2 | 107.1 | 109.3 | 135.7 |
| BCAR3 | 123 | 142.7 | 124.3 | 159.7 | 132.4 | 157.5 | 140.5 | 196.3 |
| BCAS1 | 108.8 | 120.7 | 95 | 86.2 | 76.2 | 86.9 | 98.4 | 107.9 |
| BCAS2 | 132.9 | 130.7 | 96.1 | 85.1 | 84.4 | 98 | 126.9 | 174.6 |
| BCAS3 | 77.5 | 85.3 | 97.3 | 95.2 | 90.7 | 93.9 | 80.3 | 75.3 |
| BCAS4 | 110.3 | 139.6 | 112.9 | 106.2 | 109.7 | 104.4 | 107.2 | 117 |
| BCAS4 | 100 | 118.2 | 111.9 | 90.7 | 97.5 | 90.2 | 101.9 | 102.3 |
| BCAS4 | 163.9 | 208.4 | 113.2 | 105.1 | 108 | 100.3 | 134.7 | 182.9 |
| BCAT1 | 737.3 | 1084.5 | 537.5 | 264.3 | 209.7 | 438.1 | 673.7 | 1423.8 |
| BCAT2 | 546.4 | 762.9 | 482.7 | 306.1 | 269.5 | 324.5 | 514.6 | 590.9 |
| BCCIP | 3319.2 | 4294.6 | 2063.9 | 1644.9 | 1153 | 2035.1 | 2343.7 | 3231.3 |
| BCCIP | 1477.9 | 1839.1 | 542.9 | 378.7 | 290 | 539.1 | 988.3 | 1458.1 |
| BCCIP | 689.1 | 927 | 393.1 | 345.8 | 257.3 | 383.8 | 558.5 | 795.8 |
| BCCIP | 137.5 | 158.5 | 99.9 | 95.5 | 77.5 | 87.9 | 137.1 | 167.7 |
| BCDIN3 | 1551.4 | 1933.2 | 1247.3 | 791.8 | 763.4 | 683.7 | 1376.5 | 1332.1 |
| BCDO2 | 84.8 | 91.8 | 77.5 | 80.8 | 84.4 | 74 | 82.5 | 98.4 |
| BCHE | 92.4 | 98.1 | 102.1 | 83 | 86.2 | 85.3 | 96.9 | 97.2 |
| BCKDHA | 2117.2 | 2681.5 | 1285.8 | 1175.8 | 1094.7 | 1230.1 | 1740.7 | 1449.6 |
| BCKDHB | 596.6 | 850.5 | 236.9 | 218.2 | 248.4 | 245.9 | 570.4 | 713.8 |
| BCKDHB | 91.1 | 111.4 | 112.8 | 107.7 | 95.9 | 96.8 | 95 | 94.4 |
| BCKDK | 3008.5 | 3700.3 | 1750.7 | 1156.8 | 1093.3 | 1103.6 | 2518.9 | 2071.7 |
| BCL10 | 292.4 | 357.8 | 124.5 | 127.1 | 114.8 | 103.9 | 231.1 | 374.8 |
| BCL11A | 806.3 | 1049.5 | 225.6 | 159.5 | 126.7 | 166 | 639.8 | 681.8 |
| BCL11A | 114.3 | 147 | 107.2 | 86.6 | 86.4 | 88.1 | 120 | 122 |
| BCL11A | 177.2 | 232 | 147.1 | 141 | 119.3 | 112.7 | 163.3 | 188.7 |
| BCL11B | 98.2 | 110.6 | 98.3 | 81.8 | 86.5 | 90.2 | 99.9 | 98.2 |
| BCL11B | 83.3 | 94.5 | 93.5 | 90.9 | 86 | 87.7 | 83.9 | 96.8 |
| BCL2 | 123.4 | 150.1 | 103.5 | 106.1 | 89 | 115.5 | 115.8 | 111.1 |
| BCL2 | 116.8 | 130.2 | 81.2 | 81.4 | 89.7 | 78.8 | 114.9 | 130.7 |
| BCL2 | 1921.5 | 2396.8 | 1662 | 1873.3 | 1247.6 | 2262.7 | 1315.1 | 2075.5 |
| BCL2A1 | 228.8 | 263.9 | 106.7 | 100.9 | 94 | 106 | 182.7 | 206.5 |
| BCL2L1 | 489.9 | 590.1 | 633 | 477.1 | 377.9 | 628.4 | 560.5 | 1534.5 |
| BCL2L1 | 171.4 | 198.2 | 129 | 110.9 | 121.7 | 108.5 | 152.1 | 196.5 |
| BCL2L10 | 95.3 | 107.1 | 89.2 | 81.1 | 84.3 | 87.4 | 92 | 105.7 |
| BCL2L11 | 107.4 | 113.9 | 102.2 | 104.3 | 89.1 | 95.2 | 100.2 | 111.5 |
| BCL2L11 | 101 | 113.8 | 109.6 | 104.5 | 86.9 | 108.7 | 100.8 | 103.3 |
| BCL2L11 | 122 | 134 | 106.5 | 105.5 | 99.3 | 104 | 110.9 | 122.8 |
| BCL2L12 | 265.7 | 305.8 | 195.8 | 150 | 139.1 | 127.6 | 221.8 | 271.3 |
| BCL2L12 | 1946.2 | 2511.7 | 1388 | 787.5 | 688.4 | 732 | 1848.9 | 2150.5 |
| BCL2L12 | 1716 | 1929 | 914.2 | 542.2 | 461.4 | 548 | 1512.6 | 1699.5 |
| BCL2L13 | 2644.2 | 3335 | 2675.9 | 2874.6 | 2462 | 3469.7 | 2030.6 | 2534.3 |
| BCL2L14 | 95.9 | 118.3 | 92.6 | 91.1 | 93.7 | 85.7 | 102.2 | 125.2 |
| BCL2L14 | 106.4 | 124 | 107 | 104.6 | 84.6 | 86.8 | 108 | 116 |
| BCL2L14 | 98.1 | 121.4 | 102.6 | 110.3 | 94.7 | 94.2 | 96.3 | 102.1 |
| BCL2L14 | 75.7 | 79.5 | 84.9 | 78.4 | 85.4 | 88.4 | 75.3 | 78 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| BCL2L2 | 538.6 | 605.7 | 272.5 | 269.4 | 235.2 | 329.9 | 424.8 | 684 |
| BCL3 | 156.7 | 166.1 | 138.5 | 111 | 131.4 | 116.8 | 183.4 | 283.8 |
| BCL6 | 84.1 | 106.3 | 92.7 | 86.3 | 91.1 | 86.6 | 89.6 | 94.8 |
| BCL6 | 353.3 | 412.9 | 246.9 | 317.2 | 226.7 | 339.4 | 356.2 | 571.9 |
| BCL6B | 144.5 | 195.1 | 108.6 | 77.3 | 82.6 | 81.2 | 174 | 167.7 |
| BCL7A | 108.6 | 135.9 | 101.8 | 88.9 | 81.7 | 93.2 | 114.9 | 145.3 |
| BCL7A | 114.2 | 112.6 | 98 | 91.6 | 87.5 | 94.2 | 105.3 | 124.8 |
| BCL7A | 91.6 | 116 | 108.9 | 94.2 | 85.6 | 92.6 | 93.1 | 118.2 |
| BCL7B | 434.9 | 591.2 | 272.8 | 222.3 | 185.2 | 285.4 | 401.3 | 536.9 |
| BCL7B | 687.5 | 841.1 | 426.3 | 402.9 | 363.1 | 352.7 | 649.8 | 729.4 |
| BCL7C | 1038.7 | 1329.2 | 882.6 | 477.5 | 433.4 | 587.9 | 876.3 | 1415.4 |
| BCL9 | 160.5 | 193.6 | 129.6 | 101.3 | 109.4 | 117.5 | 173.5 | 237.3 |
| BCL9L | 83.6 | 109.9 | 95.7 | 100.2 | 95.6 | 88.8 | 97.6 | 121.8 |
| BCLAF1 | 2857.8 | 3817.5 | 1701.5 | 1938.5 | 1686.8 | 2883 | 2371.7 | 4049.6 |
| BCLAF1 | 809.9 | 1121.4 | 444.3 | 462.7 | 380.4 | 777.6 | 652.7 | 1252.9 |
| BCMO1 | 76.7 | 88 | 84.3 | 80.4 | 77.9 | 79.3 | 83.2 | 92.4 |
| BCNP1 | 98.6 | 109 | 101.2 | 91.3 | 100.3 | 97.9 | 103.1 | 95.2 |
| BCOR | 617.8 | 868.1 | 659.2 | 938.2 | 675.2 | 1291.5 | 588.2 | 1096.9 |
| BCOR | 98.9 | 122.2 | 113.4 | 134.1 | 135 | 137.8 | 87.4 | 115 |
| BCOR | 193.4 | 199.5 | 134.4 | 167.6 | 160.9 | 148.8 | 153.6 | 226 |
| BCORL1 | 91.8 | 110.8 | 96.5 | 127.9 | 108.9 | 131.5 | 101.3 | 143.5 |
| BCORL2 | 85.7 | 90.8 | 95.3 | 85 | 75.5 | 78.7 | 86.5 | 91.1 |
| BCR | 92.5 | 97.2 | 92.3 | 95.1 | 86.1 | 108.6 | 102.2 | 98.7 |
| BCR | 97.3 | 109.4 | 94.9 | 103 | 104.3 | 96.8 | 91.3 | 104.8 |
| BCR | 122.6 | 144.6 | 120.5 | 140.7 | 131.7 | 113.3 | 133.2 | 131.9 |
| BCS1L | 576.6 | 656.7 | 417.6 | 367 | 284 | 411.3 | 426.5 | 604.8 |
| BDH | 105.7 | 126.5 | 79 | 80.8 | 82.7 | 79.1 | 128.7 | 121.8 |
| BDH | 81.3 | 101.3 | 83 | 79.2 | 77.6 | 79.9 | 98 | 103.1 |
| BDH | 189 | 257.4 | 170.3 | 135.2 | 116.1 | 156.7 | 162.3 | 176.2 |
| BDH2 | 87.5 | 107.2 | 92.8 | 93.3 | 79.2 | 87.3 | 103.8 | 119.9 |
| BDKRB1 | 87.9 | 92.7 | 109.5 | 98.2 | 92.6 | 101.1 | 89.9 | 90.1 |
| BDKRB2 | 101.9 | 103.2 | 87.9 | 89.6 | 81.8 | 79.1 | 91.8 | 104.9 |
| BDNF | 84.5 | 92.4 | 87.4 | 86.1 | 84.9 | 87.7 | 92.9 | 89.9 |
| BDNF | 117.2 | 120.5 | 98.2 | 97.4 | 96 | 99.7 | 117.8 | 109.7 |
| BDNF | 111.3 | 141.1 | 94.5 | 82.6 | 85.9 | 87.1 | 131.3 | 145.8 |
| BDNF | 133.8 | 143.8 | 110.5 | 92.5 | 86.5 | 102.7 | 113.7 | 133.2 |
| BDNF | 85 | 101.6 | 100.4 | 85.8 | 83.9 | 98.5 | 95 | 87.5 |
| BDNF | 162.2 | 194.4 | 97.1 | 89.8 | 82.7 | 101 | 159.2 | 171.4 |
| BDNF | 82.6 | 107 | 99.7 | 90.3 | 93.1 | 89.4 | 94.7 | 98.6 |
| BDP1 | 102.4 | 156.6 | 105.2 | 122.6 | 109.6 | 97.9 | 124.2 | 146.9 |
| BECN1 | 1269.7 | 1592.7 | 354.5 | 456.4 | 367.4 | 546.4 | 971.6 | 1352.7 |
| BET1 | 519.1 | 732.4 | 216.7 | 178.2 | 180.3 | 270.1 | 424.5 | 598.1 |
| BET1L | 157 | 176.9 | 129.5 | 105.9 | 102 | 134.1 | 146.4 | 189.9 |
| BEX1 | 6260.4 | 9089 | 4665.6 | 839.1 | 632.1 | 890.7 | 6202.2 | 6397.6 |
| BEX2 | 81.2 | 89.9 | 101.1 | 91.3 | 101.7 | 96.2 | 93 | 85.9 |
| BEXL1 | 208.8 | 278.2 | 136.4 | 107.9 | 93.4 | 122.8 | 176.5 | 230.8 |
| BEXL1 | 304.8 | 449.6 | 171.1 | 137.6 | 131.3 | 139.6 | 341 | 351.7 |
| BFAR | 709.4 | 860.5 | 420.8 | 408.4 | 306.3 | 450.8 | 682.5 | 1422.6 |
| BFSP1 | 101 | 120.6 | 98.6 | 80 | 88 | 84.4 | 100 | 114.8 |
| BFSP2 | 127.7 | 144.6 | 99.7 | 89.8 | 94.7 | 90.2 | 130.2 | 141.9 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| BGLAP | 164 | 181.2 | 125.1 | 109.7 | 98.8 | 115.3 | 163.3 | 165.3 |
| BGN | 114.6 | 129.2 | 107.6 | 99.4 | 86.6 | 110.7 | 222.6 | 281.6 |
| BHLHB2 | 312.4 | 347.4 | 345 | 1502.4 | 1633.7 | 2372.4 | 282.8 | 498.4 |
| BHLHB3 | 89.3 | 95.4 | 95.4 | 99.3 | 83.7 | 86.3 | 87.1 | 91.8 |
| BHLHB4 | 89.5 | 97.7 | 97.4 | 82.1 | 85.6 | 84.7 | 93.4 | 97.9 |
| BHLHB5 | 5964.7 | 6949.3 | 4162.7 | 4499.6 | 3715.6 | 5439 | 5730.3 | 8443.6 |
| BHLHB8 | 103.2 | 115.5 | 111.2 | 102 | 89.8 | 97.4 | 96.5 | 111.1 |
| BHLHB9 | 164.6 | 198.8 | 121.9 | 129.6 | 116.4 | 149.1 | 152.6 | 176.2 |
| BHMT | 76.6 | 74.1 | 79.6 | 74.3 | 72.6 | 76.5 | 71.3 | 79.6 |
| BHMT2 | 77.8 | 79.4 | 79 | 69.4 | 68.3 | 76.3 | 77.7 | 76.2 |
| BICC1 | 81.3 | 100.2 | 92.7 | 95.2 | 80.1 | 94.7 | 85.4 | 87.1 |
| BICD1 | 97.9 | 104.3 | 88.1 | 84.3 | 87 | 92.5 | 91.2 | 86.7 |
| BICD1 | 95.1 | 101 | 115.2 | 113 | 98.4 | 102 | 97.4 | 108.7 |
| BICD2 | 73.8 | 88.7 | 82.5 | 89.5 | 83.9 | 83.6 | 88.1 | 79.5 |
| BICD2 | 988.8 | 1115 | 677.7 | 815.5 | 676.1 | 1085.2 | 769.7 | 1181.8 |
| BID | 790.2 | 1020.7 | 499.2 | 606.6 | 564.5 | 893.4 | 607.6 | 945.2 |
| BID | 1315.9 | 1522 | 430.3 | 528.5 | 412 | 664.8 | 1124.5 | 1465.1 |
| BID | 104.1 | 98.4 | 73.3 | 76.5 | 84.5 | 91.8 | 87.7 | 102.4 |
| BIK | 390.1 | 540.3 | 469.9 | 522.8 | 569.6 | 650.5 | 327.2 | 535 |
| BIN1 | 292.9 | 365.7 | 272.6 | 312 | 225.2 | 438.7 | 296.4 | 418.6 |
| BIN1 | 340.9 | 471.1 | 426.2 | 404.2 | 300.8 | 589.3 | 383.7 | 567.5 |
| BIN2 | 142.6 | 163.6 | 101.1 | 104.3 | 91.3 | 98.9 | 129.8 | 165.7 |
| BIN3 | 187.8 | 189.9 | 134.2 | 142.8 | 133.7 | 131 | 162.1 | 226.5 |
| BIRC1 | 90.4 | 102.5 | 95.7 | 94.9 | 84.8 | 83.2 | 96.8 | 95.9 |
| BIRC1 | 132.9 | 148.4 | 113.2 | 183.5 | 167.4 | 126.7 | 109.5 | 124.5 |
| BIRC2 | 982.5 | 1009.7 | 486.9 | 597.8 | 428.7 | 683 | 808.5 | 1423.8 |
| BIRC3 | 573.2 | 638 | 342 | 733.4 | 684.1 | 654.1 | 594.6 | 743.7 |
| BIRC3 | 93 | 98.6 | 106.1 | 105.1 | 120.4 | 97.3 | 90.3 | 92.3 |
| BIRC3 | 84.6 | 92.8 | 105.8 | 101.3 | 89.9 | 91 | 79.5 | 85.4 |
| BIRC4 | 161.8 | 170.8 | 100.4 | 96.9 | 92.5 | 93.1 | 128.8 | 177.2 |
| BIRC5 | 1781.9 | 2271.7 | 850.2 | 498.4 | 406.7 | 468.7 | 1463.3 | 1775.5 |
| BIRC5 | 279.9 | 362.5 | 314.3 | 171.6 | 162.1 | 193.4 | 250.6 | 317.8 |
| BIRC6 | 183.7 | 307.1 | 140.9 | 189.1 | 163.5 | 276 | 203.4 | 251 |
| BIRC7 | 83.6 | 100.3 | 109.4 | 91.1 | 92.3 | 91.4 | 83.3 | 97.7 |
| BIRC7 | 106.2 | 129.1 | 96.8 | 94.9 | 91.2 | 87 | 103.6 | 113.1 |
| BIRC8 | 84.7 | 83.1 | 103.2 | 93.6 | 91.2 | 92 | 92.5 | 83.8 |
| BIVM | 516.2 | 671.9 | 458.1 | 395.6 | 333.8 | 648 | 469.9 | 1043.8 |
| BLCAP | 502.2 | 638.7 | 348.1 | 432.1 | 333.3 | 573.9 | 353.1 | 540.1 |
| BLES03 | 126.1 | 160.2 | 111.8 | 99.9 | 100.3 | 121.5 | 120.3 | 180.4 |
| BLK | 83.8 | 90.9 | 104.4 | 88.3 | 90.4 | 88.7 | 92.1 | 92.3 |
| BLM | 681.5 | 831.4 | 461.6 | 665 | 501.5 | 915.1 | 611.1 | 872.7 |
| BLMH | 1000.5 | 1410 | 397 | 317.2 | 249.7 | 305.5 | 917 | 1129.4 |
| BLNK | 81.7 | 112.4 | 97.6 | 85.3 | 79.4 | 94.4 | 93.3 | 94.3 |
| BLOC1S1 | 1285.9 | 1620.4 | 376.2 | 323.4 | 431 | 514.9 | 1046.3 | 1792.8 |
| BLOC1S2 | 91 | 119.1 | 107.5 | 87.4 | 86.5 | 91.9 | 101 | 115.9 |
| BLOC1S2 | 143 | 172 | 111.8 | 90 | 104.6 | 104.9 | 168.7 | 202.1 |
| BLOC1S3 | 86.8 | 93.5 | 91.2 | 97.6 | 92.3 | 90 | 81.7 | 81.5 |
| BLR1 | 79.9 | 86.2 | 78.5 | 89.8 | 76.5 | 87.5 | 84.7 | 87.8 |
| BLR1 | 148.5 | 218.8 | 117.7 | 125.5 | 121 | 128.7 | 158.9 | 163.7 |
| BLR1 | 79.2 | 83.8 | 96.2 | 85 | 84.4 | 79.4 | 77.3 | 76 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| BLVRA | 1000.7 | 1218.3 | 287.7 | 665.9 | 495.4 | 739.7 | 885.8 | 954.4 |
| BLVRB | 436.1 | 508.1 | 146.1 | 162.7 | 146.9 | 172.2 | 485.5 | 530.2 |
| BLZF1 | 266.9 | 300.7 | 169.3 | 273 | 220.9 | 196.5 | 299.8 | 410.4 |
| BM88 | 116.9 | 155.2 | 92.4 | 92 | 93.8 | 93.7 | 123.4 | 129.6 |
| BMF | 92.2 | 98.5 | 82.4 | 86.5 | 103 | 116.3 | 82.5 | 107.8 |
| BMF | 73.3 | 92.4 | 83.4 | 90.5 | 84.2 | 85.7 | 88.4 | 88.2 |
| BMF | 87.6 | 88.2 | 88.8 | 87.9 | 85.4 | 89.2 | 90.7 | 90.4 |
| BMF | 107.8 | 117.8 | 82.6 | 90.7 | 95.7 | 106.2 | 110.6 | 120.1 |
| BMP1 | 89.5 | 93.8 | 108.3 | 92.7 | 82.2 | 101.2 | 92.8 | 84 |
| BMP1 | 129.3 | 144.2 | 112 | 105 | 90.4 | 100 | 133.5 | 142.2 |
| BMP1 | 203.3 | 264 | 275.1 | 192.8 | 188.9 | 219.3 | 176.2 | 262.4 |
| BMP10 | 76 | 84.7 | 84.8 | 88.2 | 72.3 | 81 | 86.6 | 98.5 |
| BMP15 | 93 | 107.3 | 105.8 | 103.1 | 88.9 | 103.9 | 90.2 | 91.8 |
| BMP2 | 167.9 | 189.9 | 156.7 | 126.7 | 123 | 134.6 | 152.5 | 198.7 |
| BMP2K | 200.6 | 261.1 | 145.5 | 143.3 | 123.5 | 170.8 | 136.8 | 193.4 |
| BMP2K | 146.3 | 164 | 112.1 | 110.8 | 107.1 | 110.2 | 129.5 | 155 |
| BMP2K | 123.2 | 150 | 120.4 | 122.3 | 123.8 | 141.9 | 121.1 | 158.1 |
| BMP3 | 113.8 | 135.7 | 89 | 81.5 | 81 | 87 | 111.2 | 130.4 |
| BMP4 | 229.6 | 308.9 | 193.2 | 118.3 | 105.5 | 131 | 237.1 | 363.7 |
| BMP4 | 99.9 | 94.7 | 77.4 | 76.6 | 81.3 | 76.9 | 96.4 | 92.9 |
| BMP4 | 115.1 | 155.8 | 96.8 | 82 | 81.6 | 79.7 | 141 | 145.3 |
| BMP5 | 142.9 | 164.7 | 94.6 | 96.4 | 93.6 | 89 | 134.5 | 158.3 |
| BMP6 | 101 | 139 | 90.2 | 99.1 | 78.6 | 106.9 | 112.3 | 165.2 |
| BMP7 | 107.4 | 120.6 | 94.3 | 102.9 | 81.8 | 92.5 | 112.6 | 124.9 |
| BMP8A | 96.8 | 121.1 | 100.4 | 109.7 | 106.4 | 92.9 | 95 | 96.2 |
| BMP8B | 940.9 | 1457.7 | 791.5 | 301.4 | 310.8 | 468.9 | 520.3 | 684.6 |
| BMPER | 92 | 106.2 | 94.7 | 85 | 75.1 | 80 | 89.5 | 111.6 |
| BMPR1A | 105.3 | 122.9 | 90.8 | 87.6 | 86.3 | 90 | 106.3 | 108 |
| BMPR1B | 89 | 97.3 | 89.6 | 85 | 77.6 | 87.6 | 92.2 | 92.3 |
| BMPR2 | 209.4 | 343.5 | 142.6 | 177.8 | 159.3 | 205.2 | 222.9 | 382.2 |
| BMS1L | 1185.9 | 1469 | 866.4 | 672.2 | 586.4 | 988.4 | 924.7 | 858.3 |
| BMX | 94.8 | 101.9 | 100.8 | 90.3 | 94.7 | 84.9 | 94.5 | 99.4 |
| BMX | 84.7 | 100 | 96.4 | 99 | 88.6 | 101 | 90.9 | 93.3 |
| BNC1 | 126.6 | 144 | 100 | 102.4 | 85.8 | 97.3 | 125.5 | 129.1 |
| BNC1 | 73.4 | 84.3 | 83.1 | 81.9 | 84.9 | 83.6 | 77.7 | 78.8 |
| BNC2 | 95.4 | 100.9 | 93.7 | 88.8 | 85.3 | 83.8 | 94.3 | 113 |
| BNIP1 | 230.6 | 304.5 | 141.5 | 123 | 130.9 | 146.6 | 274.2 | 299.3 |
| BNIP1 | 312.2 | 428.4 | 279.2 | 169.5 | 199.8 | 239 | 318.6 | 390.5 |
| BNIP2 | 1618.9 | 2014.4 | 1153.6 | 1582 | 1081.9 | 2156.9 | 1453.3 | 3072.9 |
| BNIP3 | 2570.6 | 3409 | 1440.4 | 1431.1 | 1334 | 2169.8 | 2186 | 3167.5 |
| BNIP3L | 113.2 | 129.4 | 83.6 | 98.4 | 90.7 | 115.7 | 121.2 | 210.8 |
| BNIPL | 119.8 | 141.2 | 116.2 | 112.2 | 102.8 | 112 | 109.4 | 106 |
| BNIPL | 137.1 | 148.8 | 122.5 | 115.1 | 99.8 | 108.8 | 140.7 | 146.7 |
| BNIPL | 90.9 | 108.1 | 76.5 | 67.9 | 76.2 | 78.8 | 83.7 | 106.9 |
| BOC | 79.1 | 85.4 | 78.1 | 84.8 | 77.4 | 87 | 81.2 | 78.2 |
| BOK | 134.7 | 157.8 | 140.1 | 115.1 | 116.5 | 130 | 150.1 | 159.7 |
| BOLA1 | 209.8 | 233 | 111.6 | 104.7 | 94.1 | 119.7 | 168.2 | 202.4 |
| BOLA2 | 4157.1 | 4780.8 | 2981.1 | 2538 | 1850.6 | 2809.1 | 3427.5 | 3486.8 |
| BOLA2 | 726.5 | 743.5 | 360 | 317.8 | 238.6 | 291.8 | 650.2 | 821.6 |
| BOLA3 | 6540.8 | 7089 | 5065.4 | 4576.2 | 3268.2 | 4396.6 | 6145.4 | 8085.4 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| BOLA3 | 6630.7 | 7512.1 | 5662 | 5145.5 | 3550.1 | 4918.7 | 6198.4 | 8273.6 |
| BOLA3 | 113.9 | 142.2 | 103.7 | 95.6 | 92.5 | 84.8 | 117.7 | 134.1 |
| BOLL | 86.2 | 84.2 | 93.8 | 76.7 | 72.1 | 87.7 | 83.5 | 82.5 |
| BOLL | 95.8 | 100.7 | 98.4 | 95.6 | 98.2 | 101 | 89 | 92.7 |
| BOLL | 77.5 | 78.3 | 90.1 | 83.4 | 81 | 84.8 | 75.2 | 87.8 |
| BOP1 | 6247.4 | 7847.1 | 3325 | 1896.1 | 1539.6 | 1972.1 | 4871.4 | 4362.8 |
| BP75 | 584.3 | 754.8 | 276.2 | 226.4 | 178.5 | 307.3 | 491.2 | 628.6 |
| BPGM | 255.9 | 332.1 | 160.1 | 154 | 119.6 | 189.1 | 204.5 | 269.3 |
| BPGM | 83.4 | 89.4 | 83.9 | 89.5 | 84.8 | 82.5 | 87.6 | 88.5 |
| BPHL | 210.7 | 275.2 | 201.7 | 181.4 | 158 | 197.3 | 191.1 | 243.4 |
| BPI | 96.7 | 113.2 | 91.3 | 91.5 | 81.4 | 92.2 | 99.4 | 110.3 |
| BPIL1 | 89.9 | 101.5 | 80.7 | 83.5 | 78 | 92.1 | 84.1 | 97 |
| BPIL2 | 83.5 | 93.9 | 100 | 91.8 | 82.1 | 89.7 | 85.3 | 97.9 |
| BPIL3 | 80 | 94.6 | 80.1 | 88.5 | 82.2 | 82.1 | 86.9 | 98.7 |
| BPNT1 | 338.2 | 422.2 | 239.6 | 191.1 | 172.1 | 126.8 | 251.2 | 397.3 |
| BPY2 | 76.2 | 84.1 | 95.4 | 95.1 | 88.2 | 80.3 | 72.9 | 79.1 |
| BPY2B | 135.3 | 126 | 105.8 | 90.6 | 86.5 | 92.7 | 127.4 | 122.7 |
| BPY2IP1 | 217.3 | 254.3 | 332 | 240.9 | 201.6 | 331.1 | 213 | 401.2 |
| BRAF | 135.8 | 158.6 | 115.6 | 119.2 | 106.9 | 116.3 | 131.1 | 196.9 |
| BRAP | 112.6 | 127.5 | 92.3 | 85 | 66.5 | 84.5 | 109.5 | 146.7 |
| BRCA1 | 1205.7 | 1420.6 | 430.5 | 351 | 251.1 | 485.9 | 816 | 954.3 |
| BRCA1 | 1489.5 | 1978.4 | 514.3 | 465.4 | 395.6 | 539.1 | 992.1 | 1159.6 |
| BRCA1 | 142.4 | 152.8 | 94.9 | 91.7 | 87.9 | 74.9 | 127 | 172.6 |
| BRCA2 | 109.3 | 119.1 | 105.9 | 110.9 | 87 | 111.6 | 128.5 | 132.5 |
| BRCC2 | 103.7 | 115.7 | 109.3 | 93.5 | 93.8 | 103.2 | 97.8 | 107.3 |
| BRD1 | 177.6 | 222 | 198.7 | 192.6 | 201.8 | 277.4 | 169.5 | 244.5 |
| BRD2 | 3161.1 | 4124.8 | 2360.1 | 2207.9 | 2132.5 | 2493.7 | 3088.6 | 3085.5 |
| BRD3 | 837.2 | 1268.1 | 1077.4 | 1172.5 | 931.7 | 1157.7 | 838.8 | 1621.7 |
| BRD4 | 122.4 | 143.7 | 111.2 | 90.8 | 92.2 | 92.2 | 115.3 | 135.4 |
| BRD4 | 84.5 | 102.2 | 109.8 | 102.3 | 102.1 | 115.7 | 90.6 | 98.8 |
| BRD7 | 1295.7 | 1603 | 639.6 | 620.7 | 454.2 | 803.1 | 1046.5 | 1548.5 |
| BRD8 | 642.5 | 832.4 | 363.4 | 405.5 | 399.1 | 657.1 | 628.6 | 1142.9 |
| BRD8 | 79.9 | 81 | 98.3 | 83.4 | 74.3 | 81.4 | 77 | 93.9 |
| BRD9 | 2281.4 | 2547.8 | 1644.5 | 1706 | 1528.4 | 1993.5 | 1811.5 | 2108.3 |
| BRD9 | 130.9 | 145.1 | 100.8 | 101.7 | 82.1 | 89.4 | 120.8 | 132.5 |
| BRDG1 | 98.2 | 88.2 | 97.8 | 100.7 | 94.1 | 91.1 | 93.8 | 100.4 |
| BRDT | 71.3 | 81 | 81.7 | 82.9 | 81.7 | 85.9 | 76.4 | 81.4 |
| BRDT | 69.2 | 84.3 | 84.6 | 83.3 | 82.4 | 84.3 | 76.5 | 78.7 |
| BRDT | 109.5 | 114.9 | 88.1 | 84.5 | 79.4 | 91.4 | 92.8 | 113.5 |
| BRE | 1025.9 | 1486.2 | 765 | 589.9 | 454.1 | 543.5 | 901.3 | 1166.8 |
| BRE | 674.5 | 963.7 | 449.4 | 469.6 | 343.8 | 411.6 | 565.9 | 968.3 |
| BRE | 101.9 | 111.5 | 95.2 | 89.1 | 81.7 | 85.7 | 90.7 | 88.5 |
| BRF1 | 106 | 118.1 | 89.4 | 95.5 | 88.1 | 94 | 105.8 | 114.3 |
| BRF1 | 124.4 | 157.9 | 155.8 | 120 | 119.1 | 165.5 | 110.4 | 167.2 |
| BRF1 | 103 | 120.3 | 109.6 | 101.8 | 101.8 | 93 | 96.5 | 110.4 |
| BRF2 | 672.6 | 819.3 | 613.2 | 491.4 | 397 | 689.9 | 723.7 | 1555.8 |
| BRI3 | 2557.4 | 2785.1 | 2066.8 | 2378.4 | 1470 | 2770 | 2532.4 | 5419.2 |
| BRI3BP | 217.1 | 221.9 | 134.5 | 121.2 | 119.2 | 107.6 | 179.1 | 224 |
| BRI3BP | 1464.6 | 1796.1 | 746.8 | 804.9 | 557.6 | 685.6 | 1345.5 | 1415 |
| BRI3BP | 746.1 | 974.4 | 334 | 292.9 | 275.6 | 275.7 | 667.2 | 703.9 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| BRIP1 | 118 | 112.3 | 97 | 97.1 | 90.2 | 110 | 106.2 | 100.9 |
| BRMS1 | 2577.8 | 3508.1 | 2214.1 | 1722.2 | 1360.9 | 1417 | 2430.8 | 2463.3 |
| BRMS1 | 364.7 | 461.1 | 327.6 | 171.9 | 172.6 | 162.4 | 335 | 436.2 |
| BRMS1L | 104.8 | 114.2 | 98.9 | 90.5 | 93.4 | 95.1 | 102.1 | 105.5 |
| BRP44 | 2213.9 | 2413.8 | 1353.5 | 1285.1 | 1026.8 | 1466 | 1950.2 | 3456.5 |
| BRP44L | 6416.6 | 8323 | 2915.3 | 2717.7 | 2428.7 | 3241.2 | 6481.8 | 7931.1 |
| BRPF1 | 268.7 | 352.8 | 272.3 | 264 | 231.9 | 369.5 | 287.8 | 501.3 |
| BRPF1 | 3108.3 | 3381.6 | 3223.2 | 3779.5 | 3042.1 | 3914.1 | 2686.4 | 4030.4 |
| BRPF3 | 510.7 | 647.9 | 366.5 | 537.2 | 443 | 612.4 | 504.4 | 655.6 |
| BRRN1 | 129 | 171.2 | 98 | 85.1 | 81.3 | 98 | 138.4 | 146.5 |
| BRS3 | 98.9 | 105.6 | 99.8 | 89.6 | 82.8 | 92.1 | 88.1 | 108.1 |
| BRSK1 | 517.2 | 558.6 | 513.6 | 418 | 378.5 | 348.2 | 621.7 | 1180.5 |
| BRSK2 | 117.6 | 125.7 | 98.9 | 84.6 | 77 | 89.7 | 106.4 | 119.3 |
| BRUNOL4 | 86.2 | 97.6 | 97.3 | 104.8 | 99.6 | 101 | 83.2 | 82.3 |
| BRUNOL4 | 83.3 | 103.8 | 92.4 | 89.7 | 80.6 | 79.5 | 89.7 | 103.8 |
| BRUNOL5 | 89.5 | 98.7 | 97.7 | 90.2 | 93.7 | 92.6 | 84.4 | 89.6 |
| BRUNOL6 | 91.1 | 112.5 | 112.7 | 97.1 | 93.2 | 96.8 | 99.7 | 96.1 |
| BRWD1 | 73.5 | 88.5 | 88.9 | 81.5 | 81.2 | 79.8 | 79.3 | 77.8 |
| BRWD1 | 185.5 | 204.2 | 89.4 | 86.4 | 92.2 | 96 | 168.2 | 201.3 |
| BRWD1 | 757.7 | 1075.3 | 458.8 | 478.3 | 396.3 | 635.7 | 655.4 | 854.7 |
| BRWD1 | 81.8 | 98 | 101.1 | 105 | 97.2 | 98.6 | 83.5 | 111.8 |
| BRWD2 | 207 | 235.7 | 116.5 | 103.7 | 97.6 | 122.3 | 191.8 | 241 |
| BRWD3 | 109.5 | 139.1 | 90.1 | 96.5 | 96.7 | 105.7 | 124.5 | 173.3 |
| BSCL2 | 711 | 902 | 404.9 | 288 | 288.7 | 317.8 | 577.7 | 571.8 |
| BSDC1 | 265.4 | 333 | 213.6 | 252.6 | 214.5 | 276 | 285.5 | 468.6 |
| BSG | 2557 | 3724.6 | 2960.4 | 2508.3 | 1873 | 3032 | 2589.5 | 4466.1 |
| BSG | 115 | 126.4 | 88.3 | 101.9 | 95.3 | 91.8 | 120.4 | 122.9 |
| BSN | 111.1 | 134.7 | 106 | 108.3 | 103.1 | 105.8 | 113.8 | 114.1 |
| BSND | 135.6 | 152.8 | 107.7 | 95.4 | 79.7 | 86.7 | 112.6 | 134.7 |
| BST1 | 501.7 | 696.1 | 361.1 | 368.7 | 295 | 428.6 | 505.3 | 554.9 |
| BST2 | 1586.7 | 1801.2 | 799.1 | 650.2 | 562.6 | 712.3 | 1326.1 | 1352.5 |
| BTAF1 | 967.4 | 1117 | 717 | 939.5 | 827.7 | 1677.8 | 671.8 | 966.1 |
| BTBD1 | 516.3 | 697.9 | 180.9 | 207.7 | 168.5 | 338.6 | 399.6 | 664.9 |
| BTBD1 | 542.7 | 833.3 | 218.2 | 194.1 | 161.6 | 231 | 324.5 | 533.7 |
| BTBD10 | 476.2 | 640.6 | 217.6 | 201.8 | 149.6 | 358 | 406.8 | 694.4 |
| BTBD11 | 109.7 | 133.7 | 98.6 | 82.3 | 84.9 | 79.5 | 114.4 | 114 |
| BTBD11 | 100.1 | 95.5 | 94.1 | 89.2 | 80 | 85.1 | 88.1 | 97.5 |
| BTBD11 | 82.2 | 71.3 | 90.2 | 78.8 | 71.5 | 90.3 | 66.5 | 96.9 |
| BTBD11 | 88.1 | 98.5 | 94 | 94.6 | 84.2 | 87.1 | 90 | 99.4 |
| BTBD12 | 559.2 | 634.2 | 298.9 | 298 | 244.7 | 241.7 | 484.3 | 405.7 |
| BTBD14A | 481 | 595 | 333.9 | 236.4 | 229.1 | 253.1 | 386.7 | 342.4 |
| BTBD14B | 118.3 | 152.6 | 106.8 | 89.2 | 96.6 | 104.6 | 112.8 | 137.2 |
| BTBD3 | 126.2 | 127.5 | 98.4 | 93.9 | 89.3 | 92.7 | 121.6 | 121.4 |
| BTBD3 | 201 | 248.2 | 169.3 | 164.8 | 117.9 | 145.9 | 184.6 | 284.5 |
| BTBD4 | 180.8 | 212.1 | 231.6 | 358.8 | 317.9 | 428.2 | 184.9 | 287.7 |
| BTBD5 | 205.3 | 276.9 | 202 | 282.5 | 223.8 | 233.7 | 219.9 | 344.5 |
| BTBD6 | 1477.9 | 1544.9 | 734.2 | 517.2 | 449 | 538.2 | 1243.8 | 1510.7 |
| BTBD7 | 428.9 | 656.5 | 391.5 | 396.5 | 328.4 | 428.5 | 453.6 | 826.4 |
| BTBD7 | 139.4 | 147.9 | 88.5 | 102.1 | 93.2 | 89.6 | 110.9 | 121.3 |
| BTBD7 | 301.7 | 412.2 | 178.3 | 192.4 | 157.6 | 175.3 | 232.4 | 282.1 |

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|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| BTBD8 | 83 | 95 | 90.9 | 83.2 | 79.6 | 78.2 | 92.1 | 98.3 |
| BTBD9 | 145 | 164.1 | 99.6 | 108.2 | 95 | 104.8 | 132.8 | 142.4 |
| BTC | 85.8 | 85.7 | 99 | 87.7 | 95.1 | 94.8 | 84.2 | 82.2 |
| BTD | 192.2 | 210.2 | 131.3 | 128.3 | 131.2 | 127.6 | 160.7 | 211 |
| BTF3 | 24906.5 | 28664.1 | 18644.5 | 18243.9 | 12843.8 | 17202.1 | 24961.9 | 30463.3 |
| BTF3 | 25574.8 | 26401.5 | 25758 | 23955.5 | 19414.4 | 23659.6 | 21857.8 | 30464.6 |
| BTF3 | 377.5 | 524.8 | 231.1 | 210.6 | 168 | 211.4 | 303.4 | 343.3 |
| BTF3L4 | 975.5 | 1289.3 | 424.9 | 410.2 | 315 | 530.7 | 780.8 | 1116.8 |
| BTG1 | 1440.7 | 1739.1 | 635.4 | 940.7 | 789.6 | 1054.5 | 1199.8 | 1939.6 |
| BTG2 | 144.6 | 186.8 | 148.7 | 140.6 | 162 | 184.8 | 185.1 | 273.3 |
| BTG3 | 359.5 | 388.4 | 212.9 | 229.8 | 169.8 | 216.7 | 323.3 | 667.1 |
| BTG4 | 97.5 | 124.2 | 83.6 | 86.4 | 82.7 | 74.2 | 92.6 | 102.4 |
| BTK | 2602 | 3244.9 | 735.5 | 749 | 550.4 | 917.7 | 2074.2 | 2273.5 |
| BTLA | 103.3 | 113.4 | 96 | 104.5 | 86 | 94.8 | 82.9 | 96.8 |
| BTN1A1 | 67.5 | 75.8 | 83.4 | 83.7 | 77.1 | 87.8 | 80.3 | 78.3 |
| BTN2A1 | 95.3 | 103.5 | 86 | 96.8 | 83.6 | 79.3 | 85.1 | 109.5 |
| BTN2A1 | 480.9 | 547.9 | 289.3 | 276.7 | 288.1 | 294.2 | 390.4 | 512 |
| BTN2A2 | 117.3 | 128.4 | 127 | 107 | 113.1 | 125.1 | 114.1 | 128 |
| BTN2A2 | 94 | 113.1 | 86.7 | 86.7 | 85.2 | 77.3 | 95 | 85.2 |
| BTN2A3 | 78 | 85.9 | 96.9 | 90.5 | 80.5 | 84.2 | 80.6 | 88.6 |
| BTN3A1 | 89.2 | 103.8 | 96.2 | 91.1 | 82.9 | 84.1 | 89.5 | 87.1 |
| BTN3A1 | 101.8 | 114 | 109.9 | 101.2 | 99.2 | 107.8 | 114.1 | 114.7 |
| BTN3A2 | 185.2 | 224.3 | 128.2 | 141.1 | 98.2 | 178.7 | 135.7 | 224.9 |
| BTN3A3 | 152.8 | 170.1 | 111.2 | 113.1 | 93.1 | 109.8 | 135.5 | 158.7 |
| BTNL2 | 148.1 | 186.1 | 109.2 | 90.9 | 88.7 | 94.7 | 146.2 | 184.8 |
| BTNL3 | 92.8 | 112.3 | 82 | 91.2 | 78.8 | 79 | 93.2 | 101.8 |
| BTNL3 | 81 | 95.9 | 87 | 83 | 84.1 | 84.6 | 88.5 | 84.8 |
| BTNL3 | 87.3 | 105 | 107.6 | 86.5 | 80.2 | 99.4 | 90.3 | 93.9 |
| BTNL8 | 77.8 | 89.2 | 81.6 | 84.5 | 68.5 | 82.3 | 85.8 | 84.1 |
| BTNL9 | 97.4 | 105.3 | 104.7 | 87.9 | 82.4 | 86.8 | 107.6 | 130.7 |
| BTRC | 116.4 | 168 | 107.7 | 92 | 83.2 | 84.4 | 127.6 | 160.7 |
| BTRC | 86.4 | 101.5 | 94.9 | 103.9 | 86.9 | 97.4 | 93 | 104.6 |
| BUB1 | 1842.8 | 2080.2 | 1051.4 | 846.2 | 720.9 | 1431.9 | 1279.2 | 2330.3 |
| BUB1B | 366.2 | 436.8 | 139.8 | 120.1 | 122.7 | 131.1 | 260.2 | 496.8 |
| BUB3 | 8195.1 | 10605.1 | 6472.6 | 4217.3 | 3224.6 | 4266.1 | 6828.1 | 7481.6 |
| BUB3 | 94.5 | 100.5 | 98.6 | 95.3 | 92.9 | 100.4 | 93.1 | 114.8 |
| BUB3 | 1711.6 | 2469.9 | 442.4 | 250.1 | 171.9 | 242 | 1436.1 | 2358.1 |
| BVES | 87.4 | 86.5 | 101.4 | 83.9 | 81.7 | 83.3 | 90.3 | 96.5 |
| BVES | 106 | 127.6 | 103.6 | 90.6 | 86.8 | 85 | 111.4 | 122 |
| BVES | 349.9 | 551.6 | 338.9 | 323.8 | 263 | 428.4 | 333.8 | 496.3 |
| BXDC1 | 5502.4 | 6838.8 | 3264.4 | 2839 | 1904.1 | 3332.8 | 5095.8 | 6389.8 |
| BXDC2 | 2112.5 | 2684.6 | 757.4 | 589.1 | 396 | 718.2 | 1511.1 | 2385.3 |
| BXDC5 | 901 | 1055.6 | 352.5 | 392.2 | 261.5 | 462.9 | 791.8 | 1407.8 |
| BYSL | 1348.8 | 1706.1 | 916.3 | 522.6 | 327.7 | 624.1 | 1085.3 | 2073.2 |
| BZRAP1 | 105.6 | 111.7 | 120.8 | 181.5 | 174.7 | 229.8 | 94.9 | 119.4 |
| BZRPL1 | 84.7 | 85.2 | 80.4 | 81.7 | 77.4 | 80.2 | 81.4 | 82.1 |
| BZW1 | 123.3 | 131.7 | 110.8 | 103.5 | 97.4 | 108 | 123.1 | 140.1 |
| BZW2 | 3670.6 | 4409.7 | 2153.4 | 2398.5 | 1531.6 | 2693.1 | 2624.5 | 4528 |
| C10ORF10 | 104.1 | 132.8 | 109.7 | 94 | 88.2 | 103.6 | 130.1 | 145.3 |
| C10ORF10 ⁴ | 404.8 | 511.4 | 226.7 | 288.8 | 212.3 | 290 | 407.4 | 681.7 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| C10ORF107 | 86.8 | 101.4 | 95.4 | 91.3 | 87.2 | 93.7 | 94.9 | 90.8 |
| C10ORF11 | 492.1 | 652.1 | 236.8 | 187.2 | 163.6 | 226.3 | 505.8 | 976.7 |
| C10ORF111 | 83.1 | 84.3 | 97.1 | 88 | 83.4 | 90.1 | 88.9 | 87.1 |
| C10ORF113 | 86.1 | 96.9 | 84.3 | 83.6 | 68.7 | 82.5 | 87.3 | 100.8 |
| C10ORF114 | 233.7 | 263.6 | 161 | 126.2 | 128.1 | 136.1 | 198.2 | 242.3 |
| C10ORF116 | 140.4 | 169.8 | 116.7 | 97 | 99.4 | 106.8 | 150.5 | 152.7 |
| C10ORF118 | 107.9 | 154.2 | 85.4 | 90.9 | 78.8 | 86.7 | 108.8 | 135.2 |
| C10ORF119 | 196.1 | 240.8 | 168.9 | 141.7 | 139.1 | 185 | 152.6 | 206.9 |
| C10ORF12 | 124.8 | 134.4 | 109.5 | 103.6 | 93.8 | 104.4 | 127.4 | 135.6 |
| C10ORF120 | 82.9 | 78.4 | 82.2 | 79.3 | 81.8 | 84.6 | 79.2 | 84.9 |
| C10ORF125 | 347.6 | 474.7 | 264.1 | 211.4 | 168.5 | 217.9 | 275.3 | 372 |
| C10ORF129 | 97.6 | 107.9 | 91.6 | 76.3 | 78.2 | 84.8 | 100.9 | 108.1 |
| C10ORF13 | 102.7 | 142.4 | 105.2 | 101.3 | 93.8 | 93.5 | 105.7 | 123.4 |
| C10ORF130 | 86.9 | 92.1 | 92.4 | 79 | 91.7 | 78.2 | 87.6 | 99.5 |
| C10ORF132 | 80.3 | 83.9 | 93.3 | 92 | 93.6 | 76 | 75.7 | 91.7 |
| C10ORF137 | 401.3 | 465 | 216.5 | 184.9 | 173.7 | 225.9 | 343 | 438.3 |
| C10ORF22 | 740.2 | 880.4 | 412.4 | 352.5 | 267.6 | 450.6 | 620.6 | 894.5 |
| C10ORF25 | 95.3 | 100.8 | 78.3 | 74.3 | 75.7 | 86.2 | 95.4 | 105.5 |
| C10ORF26 | 216.8 | 308 | 198.8 | 197.4 | 187.9 | 253.3 | 197.4 | 276.9 |
| C10ORF27 | 94.4 | 99.9 | 94.7 | 93.6 | 89.5 | 94.8 | 98.1 | 94.2 |
| C10ORF28 | 224.2 | 296.7 | 139 | 128 | 124 | 139.5 | 211.7 | 307.5 |
| C10ORF30 | 106.8 | 119.4 | 98 | 93.5 | 80.9 | 85.8 | 100.7 | 101.3 |
| C10ORF32 | 483.5 | 636.8 | 347 | 350.1 | 292.4 | 363.4 | 455.4 | 872.4 |
| C10ORF33 | 324.6 | 440.7 | 260.6 | 186.7 | 169.5 | 188.5 | 248.9 | 313.7 |
| C10ORF35 | 250.9 | 311.2 | 205.8 | 177 | 177.8 | 210.7 | 273.2 | 264.4 |
| C10ORF37 | 108.1 | 115.2 | 99.4 | 92.8 | 98.3 | 86 | 121 | 108.5 |
| C10ORF38 | 188.7 | 211.7 | 156.2 | 148.9 | 114.5 | 156 | 183 | 207.5 |
| C10ORF4 | 96.4 | 105.1 | 102.5 | 102.2 | 91.5 | 102.8 | 92 | 100.5 |
| C10ORF4 | 92.3 | 121.7 | 81.1 | 86 | 82.9 | 95 | 92.6 | 104.2 |
| C10ORF4 | 134.3 | 129.1 | 99.2 | 89.7 | 96.5 | 91.8 | 119.1 | 130.3 |
| C10ORF4 | 98.2 | 94.5 | 106.2 | 96 | 86.4 | 86 | 93.8 | 110.7 |
| C10ORF4 | 80.7 | 92.3 | 92.4 | 91.2 | 92.1 | 96.8 | 83.9 | 89.1 |
| C10ORF42 | 288.9 | 402.6 | 237.8 | 221.8 | 163 | 328.5 | 215.7 | 341.4 |
| C10ORF46 | 139.2 | 163.7 | 105.8 | 100.6 | 109.3 | 96.2 | 108.7 | 157.7 |
| C10ORF47 | 275.7 | 358.3 | 201.9 | 139.5 | 128.8 | 164.9 | 249.9 | 342.3 |
| C10ORF49 | 95.2 | 96.8 | 101 | 92.8 | 86.8 | 87.2 | 87.3 | 97.8 |
| C10ORF53 | 96.3 | 96.3 | 92.1 | 84.8 | 79.1 | 90.5 | 92.2 | 107.9 |
| C10ORF53 | 83.3 | 93.7 | 91.8 | 93.5 | 76.1 | 84.7 | 85.9 | 91.4 |
| C10ORF53 | 82.1 | 89.4 | 110.9 | 96 | 99.4 | 91.1 | 93.4 | 90.5 |
| C10ORF54 | 396.2 | 460.9 | 331.5 | 270.9 | 226.3 | 238.6 | 306.9 | 322.3 |
| C10ORF55 | 127.6 | 152.4 | 109.1 | 96.4 | 93.7 | 87.5 | 122.8 | 143.3 |
| C10ORF56 | 225.6 | 316.9 | 211.6 | 169.6 | 157.4 | 170.2 | 301.8 | 535.1 |
| C10ORF57 | 497.8 | 633 | 234.2 | 219.8 | 182.9 | 207.7 | 379.4 | 417.7 |
| C10ORF58 | 4821.9 | 5573.6 | 2284.2 | 1654.2 | 1993.2 | 1792.8 | 4397.7 | 4391.2 |
| C10ORF59 | 81.5 | 91.7 | 86.3 | 82.2 | 81.9 | 92.9 | 80.1 | 96.2 |
| C10ORF59 | 373.9 | 467 | 242.5 | 230.9 | 193.4 | 263.4 | 345.7 | 470.3 |
| C10ORF59 | 209.2 | 294.9 | 144.4 | 128.4 | 106.7 | 143.9 | 196.3 | 268.1 |
| C10ORF6 | 341.3 | 561.8 | 453.7 | 547.5 | 455.2 | 730.9 | 334 | 411.2 |
| C10ORF61 | 631.6 | 914.4 | 374.1 | 243.9 | 179.3 | 269.5 | 412.4 | 600 |
| C10ORF61 | 94 | 94.5 | 92.9 | 87.5 | 84.8 | 87.1 | 88.9 | 89.3 |

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|----------|---------|---------|---------|--------|--------|--------|---------|---------|
| C10ORF61 | 257.7 | 312.4 | 163.8 | 140.1 | 110.8 | 171.9 | 208.4 | 300.1 |
| C10ORF62 | 80.6 | 88.1 | 89.1 | 79.2 | 87.3 | 96.5 | 71.7 | 82.7 |
| C10ORF63 | 86.3 | 93.5 | 91.8 | 87.7 | 80.8 | 83.1 | 80.5 | 83.2 |
| C10ORF65 | 83.1 | 78.5 | 86.4 | 79.1 | 66.2 | 80.2 | 75 | 98 |
| C10ORF67 | 96.6 | 101.5 | 83.6 | 75.1 | 75.3 | 80.9 | 90.9 | 98.1 |
| C10ORF68 | 76.8 | 81.6 | 88 | 92.6 | 87.2 | 84.6 | 80.1 | 86.3 |
| C10ORF7 | 2858.8 | 3934.3 | 1871.3 | 1063.3 | 852.9 | 1246.3 | 2323.9 | 3709.4 |
| C10ORF71 | 80.8 | 83.5 | 79.6 | 80.7 | 78.7 | 82.3 | 88.6 | 88.6 |
| C10ORF72 | 119.6 | 136 | 105.9 | 105.9 | 93.1 | 94 | 112.3 | 122.8 |
| C10ORF72 | 121.7 | 124.4 | 101.2 | 98.7 | 84.5 | 89.8 | 114.3 | 127.5 |
| C10ORF72 | 120.3 | 136.4 | 104.8 | 93.5 | 84.2 | 85.5 | 111 | 124.8 |
| C10ORF76 | 228.3 | 268.9 | 290.6 | 239.3 | 192.3 | 291.4 | 238.2 | 390 |
| C10ORF77 | 178.6 | 216.4 | 136.2 | 110.7 | 94.6 | 112.8 | 178.2 | 192.5 |
| C10ORF78 | 126.2 | 161 | 115 | 101.8 | 102.7 | 99 | 135.3 | 155 |
| C10ORF79 | 81.9 | 104.5 | 105.6 | 89.7 | 82.6 | 82.3 | 85.2 | 96.1 |
| C10ORF80 | 93.2 | 99.4 | 105.9 | 102.5 | 81.4 | 100.2 | 91.2 | 101.2 |
| C10ORF81 | 93.9 | 105.8 | 104.4 | 96 | 89.2 | 94 | 90.8 | 98.6 |
| C10ORF82 | 121.4 | 149.2 | 90.7 | 94.5 | 70.5 | 84.5 | 112.7 | 119.8 |
| C10ORF83 | 91.3 | 110.9 | 95 | 90.8 | 84.6 | 84.3 | 91.5 | 94.8 |
| C10ORF84 | 152.6 | 215.9 | 131.6 | 121.7 | 96 | 120.1 | 146.5 | 163.7 |
| C10ORF85 | 96.1 | 96.8 | 104.6 | 96.3 | 105.2 | 90.9 | 92.6 | 103.3 |
| C10ORF86 | 3244.7 | 3672.6 | 1605.2 | 1109.3 | 749.2 | 1105.3 | 2092.5 | 2604.9 |
| C10ORF87 | 151.8 | 198.4 | 120.9 | 109 | 111.6 | 115.4 | 145.6 | 157.9 |
| C10ORF88 | 170 | 192.3 | 96.3 | 87.8 | 98 | 106.5 | 171.1 | 258.1 |
| C10ORF89 | 191 | 232.9 | 124.6 | 111.8 | 104.3 | 121.9 | 186.2 | 231.9 |
| C10ORF9 | 258 | 295.3 | 143.6 | 130.9 | 128.3 | 153.2 | 263.6 | 459.4 |
| C10ORF9 | 77.2 | 91.5 | 85.5 | 78.1 | 78.3 | 76.2 | 84.4 | 85.3 |
| C10ORF90 | 86.9 | 105.8 | 89.1 | 77 | 75.6 | 85.8 | 100.8 | 103.1 |
| C10ORF91 | 94.9 | 103.9 | 99.5 | 95.6 | 98 | 97 | 93.2 | 93.7 |
| C10ORF92 | 97.1 | 113.6 | 109.1 | 102.5 | 97.6 | 97.8 | 99.9 | 97.1 |
| C10ORF93 | 70.8 | 84.9 | 97.3 | 80.7 | 84.8 | 93.8 | 85.5 | 83.4 |
| C10ORF93 | 79.9 | 91.6 | 79.1 | 76.1 | 76.4 | 67.6 | 73.6 | 81.7 |
| C10ORF95 | 103.6 | 109.8 | 111.4 | 98.2 | 86 | 93 | 104.7 | 113.7 |
| C10ORF96 | 90 | 94 | 92.7 | 86.2 | 79 | 87 | 89.5 | 95.3 |
| C10ORF97 | 531.5 | 624.9 | 235.5 | 238.1 | 210 | 279.5 | 468.9 | 656.3 |
| C10ORF99 | 98 | 107.7 | 104.3 | 94.3 | 91 | 90.8 | 99.3 | 110.4 |
| C11ORF1 | 1666.3 | 1962.7 | 1306.5 | 906.9 | 639.8 | 1032.5 | 1532.1 | 2782.2 |
| C11ORF10 | 13332.4 | 15046.3 | 11198.4 | 6588 | 5501.7 | 7190.5 | 13125.7 | 15552.2 |
| C11ORF11 | 178.6 | 251.6 | 179.4 | 142.7 | 137.5 | 142.9 | 197.5 | 178.2 |
| C11ORF16 | 189 | 221.6 | 103 | 102.8 | 93 | 97.4 | 172.7 | 195.3 |
| C11ORF17 | 123.3 | 125 | 102.6 | 87.3 | 85.6 | 95.8 | 116.2 | 123.2 |
| C11ORF17 | 1151 | 1659.6 | 953.5 | 526.5 | 492.1 | 695.2 | 956 | 1395.5 |
| C11ORF17 | 739.3 | 1082.5 | 444.2 | 399.5 | 330.1 | 494.7 | 709 | 930.3 |
| C11ORF17 | 108.5 | 125 | 88.2 | 71.8 | 77.2 | 86.9 | 98.3 | 130.3 |
| C11ORF17 | 1590.6 | 2417.5 | 1217 | 1101 | 844.9 | 1306.1 | 1727.9 | 2174.7 |
| C11ORF2 | 1761.2 | 2191.5 | 1584.8 | 1263.2 | 1137 | 1100.2 | 1663 | 1261 |
| C11ORF24 | 400.7 | 487.2 | 186.5 | 157.9 | 129.9 | 163 | 367.2 | 386.2 |
| C11ORF30 | 127.2 | 134.7 | 108.4 | 115.7 | 108 | 111.8 | 101.3 | 123.2 |
| C11ORF31 | 201.2 | 262 | 199.9 | 185 | 161.7 | 213.4 | 181 | 233.7 |
| C11ORF35 | 98.4 | 126.2 | 109 | 144.4 | 126.2 | 183.8 | 103.9 | 150.9 |

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|----------|--------|--------|-------|-------|-------|-------|--------|--------|
| C11ORF36 | 87 | 84.5 | 85.5 | 83.3 | 87.2 | 84.1 | 87.1 | 96.9 |
| C11ORF38 | 341.3 | 413.9 | 184.9 | 181.8 | 135.3 | 151.1 | 278.1 | 395 |
| C11ORF40 | 90.7 | 100.4 | 102.8 | 88.1 | 85 | 87.2 | 91 | 93.9 |
| C11ORF42 | 84.6 | 102.2 | 89.9 | 88.4 | 84.4 | 95.9 | 87.1 | 104.6 |
| C11ORF44 | 93.8 | 97.4 | 99 | 98.8 | 86 | 85.9 | 98.1 | 101.1 |
| C11ORF45 | 155.7 | 193 | 168.9 | 143.6 | 128.1 | 166.7 | 118.6 | 141.3 |
| C11ORF46 | 1296.2 | 1461.5 | 644.3 | 523.3 | 408.2 | 553 | 847.2 | 1535.6 |
| C11ORF47 | 113.8 | 142.3 | 118.2 | 120.7 | 124.3 | 153.7 | 101.7 | 127 |
| C11ORF48 | 1296.5 | 1504.9 | 628.1 | 517.5 | 401.4 | 616.9 | 1060.1 | 1111.4 |
| C11ORF49 | 102.1 | 118.7 | 99.3 | 88.2 | 89.6 | 96.2 | 96.1 | 99.6 |
| C11ORF49 | 150.8 | 180.2 | 143.4 | 112.3 | 93.9 | 102.7 | 122 | 156.6 |
| C11ORF49 | 262.2 | 361.6 | 158.3 | 125 | 119.1 | 120 | 205.7 | 262.1 |
| C11ORF49 | 102.7 | 120.8 | 100 | 96.8 | 88.4 | 90.3 | 94.6 | 115.8 |
| C11ORF51 | 607.8 | 863.3 | 277.2 | 182.2 | 178.9 | 251.9 | 588.1 | 747.4 |
| C11ORF52 | 88.4 | 92.6 | 92.3 | 106.5 | 100.5 | 93.7 | 83.9 | 105.4 |
| C11ORF53 | 80.3 | 106.8 | 93.8 | 95.1 | 98.6 | 94.2 | 89.4 | 91.6 |
| C11ORF54 | 346.5 | 463.4 | 288.9 | 353.2 | 319.1 | 403.8 | 347.9 | 631.8 |
| C11ORF55 | 149.9 | 185.9 | 98.4 | 89.3 | 91.9 | 96.7 | 151.9 | 170.2 |
| C11ORF56 | 292.1 | 349.4 | 369.7 | 390.9 | 364.3 | 710.7 | 231.6 | 365 |
| C11ORF61 | 120.2 | 157.9 | 96.2 | 102 | 100.1 | 96.6 | 125.1 | 154.1 |
| C11ORF63 | 120.1 | 129.7 | 99.1 | 103.8 | 94.4 | 97.9 | 114.4 | 145.5 |
| C11ORF63 | 149.4 | 158.4 | 110.7 | 102.4 | 95.6 | 100.7 | 125.3 | 141.9 |
| C11ORF63 | 194 | 217.5 | 160.8 | 152.4 | 171.8 | 152.6 | 195.5 | 292.2 |
| C11ORF65 | 142.2 | 171.7 | 96.6 | 90.7 | 88.6 | 102.6 | 131.2 | 168.4 |
| C11ORF70 | 78.6 | 85.5 | 90.1 | 75.5 | 81.4 | 88 | 84.2 | 81 |
| C11ORF71 | 133.8 | 138.7 | 117.2 | 114.3 | 115.1 | 141.4 | 110 | 137.4 |
| C11ORF76 | 67.3 | 78.1 | 80.4 | 88.1 | 79.1 | 89.6 | 76 | 75.2 |
| C11ORF77 | 181.8 | 187.5 | 132.4 | 131.7 | 123.6 | 127.8 | 138.4 | 225.5 |
| C11ORF9 | 94.8 | 99.8 | 86.3 | 89.4 | 82.7 | 97.2 | 93.3 | 93.2 |
| C12ORF10 | 1413.4 | 1804.3 | 793.6 | 496.1 | 393.8 | 487.8 | 1297.9 | 1224.3 |
| C12ORF11 | 190.1 | 219.5 | 100.4 | 123.2 | 88 | 101.7 | 165.7 | 294.2 |
| C12ORF12 | 81.4 | 99.7 | 102 | 88.3 | 95.9 | 97.6 | 91.3 | 103.8 |
| C12ORF23 | 138.3 | 166.9 | 98.8 | 93.3 | 91.8 | 102.9 | 130.7 | 174.1 |
| C12ORF24 | 1585.5 | 2186.6 | 830.7 | 579.6 | 496.4 | 754 | 1024.8 | 1113.5 |
| C12ORF25 | 101.2 | 109.3 | 97.1 | 90.7 | 81.3 | 92.3 | 109.2 | 92.7 |
| C12ORF26 | 573.3 | 707.9 | 350.3 | 461.8 | 348.6 | 464.7 | 421 | 649.5 |
| C12ORF28 | 95.5 | 104.5 | 98.3 | 98.3 | 89.5 | 97.1 | 98 | 103.5 |
| C12ORF29 | 591 | 684.5 | 294.1 | 340.9 | 211.7 | 398.2 | 522.3 | 890.6 |
| C12ORF30 | 115.2 | 109.2 | 108.9 | 102 | 93.2 | 100.8 | 90.8 | 110.5 |
| C12ORF31 | 1202.9 | 1713.9 | 439.2 | 565.5 | 421.1 | 420 | 1055 | 1737.9 |
| C12ORF32 | 612.2 | 739.9 | 506 | 485.8 | 365.1 | 501.6 | 428.4 | 835 |
| C12ORF34 | 113.4 | 137.1 | 125.5 | 113 | 94 | 110.7 | 111.9 | 147.7 |
| C12ORF35 | 266.1 | 355.3 | 116.5 | 124.1 | 101.6 | 189.2 | 303.9 | 518.9 |
| C12ORF36 | 84.1 | 98.4 | 95.1 | 79.7 | 86.4 | 89.8 | 86 | 91.4 |
| C12ORF38 | 97.5 | 107.6 | 93.3 | 82.5 | 79.7 | 86 | 95.4 | 91.4 |
| C12ORF39 | 82.4 | 106.6 | 95.2 | 102.2 | 92.3 | 85.9 | 81.6 | 84.2 |
| C12ORF4 | 236.2 | 329.5 | 227.9 | 229.4 | 164.7 | 293.9 | 216.3 | 355 |
| C12ORF40 | 82.7 | 92.5 | 92.9 | 91.9 | 74.8 | 90 | 87.4 | 89.6 |
| C12ORF40 | 85 | 104.9 | 77.4 | 74.3 | 81.1 | 85.8 | 86.4 | 95.4 |
| C12ORF41 | 1423 | 1887.4 | 925.8 | 790.9 | 668.5 | 940.1 | 1169.4 | 1395.3 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| C12ORF42 | 67.9 | 75.7 | 79.2 | 77.2 | 75.5 | 75.7 | 75.7 | 79.9 |
| C12ORF43 | 223.9 | 320.5 | 170.8 | 179.7 | 128.7 | 245 | 228.5 | 356.9 |
| C12ORF44 | 443.1 | 639 | 458.4 | 348 | 313.3 | 390 | 510.6 | 753.7 |
| C12ORF45 | 409.8 | 526.2 | 255.4 | 190.9 | 160.8 | 237.6 | 392.7 | 370.6 |
| C12ORF46 | 263.5 | 326.5 | 185.3 | 190.6 | 172.6 | 259.4 | 227.6 | 274.6 |
| C12ORF47 | 1217.2 | 1463.8 | 507.4 | 504 | 532.9 | 664.1 | 966 | 1081.9 |
| C12ORF48 | 726.5 | 783.3 | 370.5 | 285.6 | 264.3 | 424.2 | 558.2 | 858.2 |
| C12ORF49 | 223 | 304.6 | 167.9 | 138.8 | 126.4 | 113.5 | 189.1 | 288.2 |
| C12ORF5 | 258.2 | 300.1 | 136.2 | 116 | 99.7 | 130.4 | 227.6 | 306.7 |
| C12ORF50 | 88.5 | 92.6 | 104.3 | 88.3 | 84.4 | 94.1 | 88.7 | 93.1 |
| C12ORF52 | 1045.1 | 1396.7 | 512.8 | 411.7 | 332.1 | 449.5 | 894.8 | 890.5 |
| C12ORF53 | 81.6 | 98.5 | 81.7 | 87.2 | 86.5 | 78.9 | 87.4 | 90.3 |
| C12ORF54 | 102.5 | 140.6 | 106.1 | 85.7 | 81.5 | 95 | 101 | 123 |
| C12ORF57 | 2323.1 | 2683.2 | 1518.4 | 977.3 | 784.2 | 1093 | 1876.4 | 2292.6 |
| C12ORF58 | 167.2 | 189.4 | 94.5 | 100 | 99.6 | 134.5 | 134.4 | 151.9 |
| C12ORF59 | 106.5 | 114.4 | 88.2 | 86.9 | 80.2 | 97.1 | 108.1 | 103.8 |
| C12ORF60 | 109.4 | 124.7 | 117.2 | 103 | 84.5 | 96.1 | 102.2 | 139.3 |
| C12ORF61 | 95.7 | 108.3 | 86.4 | 85.2 | 81.5 | 82.9 | 88.9 | 100.1 |
| C12ORF62 | 429.4 | 489.8 | 187.2 | 168.4 | 134 | 164.1 | 410 | 497.3 |
| C12ORF64 | 89.2 | 104 | 101.9 | 82.7 | 90.1 | 99.9 | 98 | 97.8 |
| C13ORF1 | 291.9 | 379.2 | 154.7 | 170.4 | 139 | 193 | 294.1 | 421.8 |
| C13ORF10 | 478.5 | 613.1 | 224.9 | 253.9 | 231.4 | 438.6 | 420.7 | 678.5 |
| C13ORF16 | 82.9 | 95.1 | 93.9 | 89.6 | 84.2 | 91.3 | 88.9 | 98.5 |
| C13ORF18 | 1846.5 | 2553.2 | 685.3 | 816.1 | 713.2 | 1037.3 | 1253.8 | 1718.1 |
| C13ORF21 | 73 | 93.4 | 99 | 74.6 | 71 | 76.2 | 89.2 | 84.7 |
| C13ORF23 | 683 | 798.4 | 602.1 | 808.7 | 484.9 | 889.9 | 684.1 | 1336.4 |
| C13ORF23 | 516.7 | 628.7 | 462.8 | 602.9 | 433.7 | 675.7 | 498.8 | 1026.2 |
| C13ORF23 | 71.3 | 78.7 | 91.7 | 78.7 | 76 | 88.6 | 78.7 | 84.2 |
| C13ORF24 | 141.8 | 177.9 | 129.1 | 143.3 | 120.6 | 189.2 | 143.5 | 198.2 |
| C13ORF26 | 78.7 | 77.5 | 80.9 | 76.4 | 79.6 | 90.3 | 72.8 | 90.6 |
| C13ORF3 | 689.1 | 831.3 | 237.7 | 207.6 | 192.8 | 258.3 | 492.9 | 738.6 |
| C13ORF7 | 741.7 | 1118.3 | 349.6 | 360.6 | 238.1 | 527 | 659.2 | 1161.7 |
| C13ORF8 | 2304.4 | 2898.2 | 1807.1 | 2156.4 | 1367.8 | 2224.6 | 1808.4 | 2166.6 |
| C14ORF1 | 133.5 | 145.5 | 92.9 | 92 | 84.9 | 85.3 | 106.4 | 146.8 |
| C14ORF10 | 995.6 | 1255.3 | 454 | 323.7 | 273.3 | 471.5 | 958.1 | 2407.9 |
| C14ORF101 | 167.4 | 177.8 | 104.2 | 97.6 | 101.7 | 105.8 | 139.2 | 155.2 |
| C14ORF102 | 824.9 | 880.1 | 600.2 | 792.5 | 730.8 | 799.8 | 869.5 | 1040.6 |
| C14ORF102 | 280.4 | 350 | 258.6 | 294.5 | 291.7 | 481.2 | 258.2 | 379.1 |
| C14ORF103 | 143.2 | 178.8 | 126.3 | 114.1 | 115.5 | 140.7 | 153.3 | 199.2 |
| C14ORF104 | 459.8 | 492.7 | 222.2 | 145.8 | 151.2 | 198 | 330.5 | 790.4 |
| C14ORF105 | 71.6 | 83.5 | 98.9 | 91.4 | 89.2 | 88.3 | 82 | 81.9 |
| C14ORF106 | 2081.8 | 2266.8 | 870.4 | 1185 | 879 | 2014.9 | 1438.9 | 2270.5 |
| C14ORF108 | 729.9 | 827.9 | 263 | 290.3 | 211.7 | 332.4 | 583.6 | 881.1 |
| C14ORF11 | 159 | 186.5 | 104.4 | 91.4 | 74.1 | 89.7 | 158.5 | 207.2 |
| C14ORF112 | 2343.8 | 2754 | 1360.5 | 1218.3 | 924.7 | 1374.1 | 2041.6 | 2967.6 |
| C14ORF115 | 118.9 | 142.9 | 95.1 | 91 | 87.2 | 93 | 105.3 | 133.5 |
| C14ORF118 | 122.1 | 156.6 | 113.5 | 121.3 | 113.4 | 112.4 | 131.1 | 149.5 |
| C14ORF118 | 211 | 250.2 | 159.6 | 171.8 | 147.8 | 196.9 | 172.3 | 239.7 |
| C14ORF119 | 153.9 | 177.1 | 107.1 | 97 | 87.3 | 82.8 | 150.2 | 190.4 |
| C14ORF120 | 1265.4 | 1782 | 493 | 375.9 | 304.4 | 545.4 | 927.5 | 1207.8 |

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|-----------|---------|---------|---------|--------|--------|--------|---------|---------|
| C14ORF121 | 103.4 | 130 | 124.4 | 112.5 | 106 | 109.7 | 102.8 | 111.8 |
| C14ORF122 | 322.7 | 356.9 | 196.9 | 169.9 | 159.6 | 163.7 | 312.4 | 295.8 |
| C14ORF124 | 383.6 | 438.2 | 153 | 126.1 | 121.4 | 121.1 | 284.9 | 295.2 |
| C14ORF126 | 255.9 | 314.6 | 176.6 | 132.3 | 119.4 | 119.1 | 188.6 | 238 |
| C14ORF129 | 206.5 | 251.6 | 135.1 | 121.6 | 116.2 | 149.4 | 209.2 | 326.6 |
| C14ORF130 | 647.5 | 805 | 401.4 | 273.6 | 229.5 | 327 | 477.7 | 796.7 |
| C14ORF130 | 1336.2 | 1798.6 | 670.4 | 542.6 | 469.1 | 839 | 1023.3 | 2121.5 |
| C14ORF130 | 100.3 | 139.9 | 83.4 | 81.2 | 82.6 | 87.3 | 107.2 | 128 |
| C14ORF131 | 815.3 | 950.8 | 577.2 | 534.6 | 506.1 | 608.4 | 609.7 | 612.3 |
| C14ORF133 | 225.7 | 352.2 | 230.2 | 149.2 | 153.8 | 184.1 | 212.2 | 261.1 |
| C14ORF135 | 903.9 | 1232.1 | 574 | 605.2 | 453.7 | 809.5 | 751.9 | 1128.9 |
| C14ORF138 | 86.6 | 82.8 | 93.4 | 85.8 | 89 | 88.6 | 83.4 | 86.8 |
| C14ORF138 | 384 | 469.6 | 243.8 | 193.3 | 155.8 | 236.1 | 302.5 | 448.6 |
| C14ORF138 | 438.9 | 492 | 262.6 | 258.8 | 206.4 | 269.9 | 395.3 | 642.6 |
| C14ORF139 | 286.9 | 403.8 | 237.7 | 225.8 | 197.7 | 239.5 | 309 | 318.7 |
| C14ORF140 | 89.4 | 113.7 | 96.4 | 96.5 | 91.9 | 90.1 | 91.5 | 104.8 |
| C14ORF140 | 100 | 102.3 | 98.3 | 92.2 | 82.5 | 86.8 | 93.9 | 104.2 |
| C14ORF142 | 1352.3 | 1573.9 | 409.3 | 366.5 | 169.2 | 327.6 | 1102.9 | 1669.5 |
| C14ORF143 | 524.1 | 585.9 | 271.9 | 171.7 | 137.4 | 198.9 | 497.9 | 718.4 |
| C14ORF145 | 339.5 | 453.8 | 183.5 | 129.9 | 152.9 | 207.6 | 272.3 | 319.3 |
| C14ORF147 | 597.7 | 776.1 | 391.5 | 575 | 459.9 | 596.4 | 527.9 | 868.2 |
| C14ORF148 | 84.3 | 93.9 | 93.5 | 91.6 | 84.1 | 87.9 | 82.2 | 101.1 |
| C14ORF149 | 511.9 | 692.7 | 242.1 | 243.5 | 158.6 | 233.2 | 488.1 | 693.9 |
| C14ORF150 | 88.8 | 88.5 | 87.6 | 79.1 | 75.8 | 80.3 | 77.9 | 94.1 |
| C14ORF150 | 142.8 | 168.9 | 113.4 | 112.5 | 103 | 106.5 | 131.7 | 154.5 |
| C14ORF150 | 225.6 | 280.8 | 115.6 | 108 | 102.8 | 123.9 | 144.8 | 183.3 |
| C14ORF151 | 141 | 172.2 | 148.4 | 127.8 | 120.2 | 156 | 159.1 | 253.4 |
| C14ORF152 | 85.7 | 90.3 | 100.3 | 93.5 | 91.8 | 99.3 | 89.9 | 92.5 |
| C14ORF153 | 1861.6 | 1702.1 | 1415.2 | 2175.3 | 2066.1 | 1736.5 | 1721.1 | 3158 |
| C14ORF155 | 79.3 | 85.5 | 88.1 | 81.4 | 78.4 | 96.2 | 84 | 84.3 |
| C14ORF156 | 13714 | 16295.6 | 10774.8 | 8541.1 | 5670.6 | 8915.5 | 10663.9 | 15011.6 |
| C14ORF159 | 726.2 | 921.8 | 673.1 | 606.4 | 566.2 | 816 | 513.9 | 701.2 |
| C14ORF161 | 80.3 | 84.8 | 97.7 | 95.3 | 95.1 | 98.4 | 83.2 | 84.1 |
| C14ORF162 | 111.7 | 127 | 87.1 | 90.2 | 78.9 | 92.7 | 103.1 | 132.7 |
| C14ORF166 | 3217.1 | 3823.2 | 724.3 | 540 | 462.5 | 704.9 | 2847.2 | 4304.7 |
| C14ORF166 | 80.5 | 91 | 94.4 | 85.5 | 81.4 | 95.3 | 73.2 | 76 |
| C14ORF169 | 619 | 820.7 | 262.7 | 204.8 | 159.7 | 219.7 | 594.8 | 815.3 |
| C14ORF172 | 148.2 | 181.1 | 149 | 104 | 102.8 | 156.5 | 147.2 | 194.3 |
| C14ORF173 | 2272.2 | 2745.3 | 2403 | 1895 | 1985.9 | 1614.2 | 1875 | 1755.3 |
| C14ORF173 | 153.6 | 169.4 | 245.4 | 163 | 167.1 | 288.3 | 145.5 | 207.9 |
| C14ORF19 | 133.2 | 156 | 106.8 | 94.8 | 105.1 | 102.5 | 150.8 | 173.2 |
| C14ORF2 | 1552.9 | 1997.5 | 1192.4 | 1149.8 | 832.3 | 1519.1 | 1377.7 | 1694.7 |
| C14ORF21 | 168.5 | 219.8 | 123.9 | 121.7 | 121.9 | 132.7 | 171.5 | 172 |
| C14ORF24 | 12467.2 | 13485.3 | 4323.6 | 6300.9 | 5277 | 4573.5 | 11451.5 | 12701.4 |
| C14ORF24 | 150.7 | 170.8 | 101.4 | 95.6 | 87.2 | 102.5 | 158.5 | 233.4 |
| C14ORF24 | 151.1 | 205.1 | 111.7 | 103.6 | 87.2 | 101 | 154.1 | 203.2 |
| C14ORF28 | 152.8 | 178.9 | 135.7 | 137.8 | 131.5 | 141.5 | 132.7 | 216.1 |
| C14ORF29 | 103.6 | 121.8 | 108.4 | 103.3 | 93.6 | 93.7 | 106.1 | 109 |
| C14ORF29 | 82.7 | 88.7 | 93.1 | 99 | 87.7 | 86.2 | 81.6 | 92.1 |
| C14ORF32 | 1159.8 | 1529 | 844.2 | 907.3 | 640.2 | 1085.3 | 1042.1 | 1634.6 |

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| C14ORF37 | 90.5 | 108.3 | 84.6 | 79.2 | 75.6 | 81.4 | 84.2 | 111.3 |
| C14ORF39 | 81.7 | 95.6 | 95.7 | 87.7 | 79.1 | 83.9 | 74.9 | 90.4 |
| C14ORF4 | 258.9 | 287 | 147.8 | 139.8 | 131.3 | 166 | 192.4 | 255.4 |
| C14ORF43 | 72.9 | 82.8 | 76.5 | 78.7 | 76.6 | 64.5 | 76.9 | 88.7 |
| C14ORF43 | 321 | 434.2 | 214.6 | 180.4 | 159 | 195.4 | 309.4 | 366.6 |
| C14ORF43 | 556.8 | 754.9 | 312.7 | 294 | 297.8 | 364.4 | 552.1 | 1089.7 |
| C14ORF44 | 90.2 | 113 | 100.5 | 88.5 | 82.5 | 90.5 | 90.5 | 108.5 |
| C14ORF45 | 76.2 | 72.9 | 94.6 | 94.7 | 75.3 | 86.7 | 75.8 | 83.1 |
| C14ORF46 | 402.1 | 500.2 | 191.4 | 167.9 | 160.1 | 179.4 | 372.1 | 532.3 |
| C14ORF48 | 127 | 137.8 | 108.7 | 97.7 | 101.5 | 105.6 | 120.9 | 132.7 |
| C14ORF49 | 117.6 | 128.4 | 124.3 | 112.4 | 92.5 | 102.4 | 109.6 | 110.5 |
| C14ORF50 | 124.6 | 136.8 | 90.2 | 79.9 | 83.5 | 94.5 | 122.6 | 132.7 |
| C14ORF54 | 81.5 | 85.7 | 95.3 | 85 | 87.4 | 87.4 | 78.1 | 89 |
| C14ORF58 | 285.6 | 355.1 | 143.1 | 161 | 147.6 | 177.6 | 271.1 | 302.7 |
| C14ORF68 | 92.3 | 107.8 | 96.9 | 82.1 | 76.9 | 78.7 | 105.2 | 102.1 |
| C14ORF73 | 90.8 | 93.9 | 86.5 | 95.3 | 76.3 | 83.9 | 93 | 96.7 |
| C14ORF73 | 127.5 | 133.6 | 96.2 | 85.3 | 88 | 93.2 | 114.5 | 116.5 |
| C14ORF79 | 170.9 | 226 | 163.5 | 124.6 | 114.5 | 138.6 | 137 | 177.7 |
| C14ORF8 | 86.1 | 87.2 | 92.2 | 84.9 | 78.3 | 77.4 | 81.6 | 84.1 |
| C14ORF80 | 859.8 | 1020.8 | 346.4 | 241.1 | 228.4 | 266.8 | 691.7 | 502.1 |
| C14ORF85 | 3532.2 | 3485.6 | 1615.7 | 1852.9 | 1899.3 | 1561 | 3342.5 | 5848.8 |
| C14ORF92 | 187.8 | 235.2 | 114.2 | 116.5 | 96.8 | 114.9 | 191.7 | 276.9 |
| C14ORF93 | 534.5 | 726.7 | 365.9 | 306.7 | 257.8 | 329.8 | 452.1 | 447.4 |
| C14ORF94 | 850.7 | 1072.9 | 519.9 | 274.5 | 292.2 | 385.4 | 623.4 | 740.3 |
| C15ORF15 | 7233.3 | 8992.6 | 2846.2 | 3100.6 | 2149.5 | 3399.1 | 6925 | 8723.3 |
| C15ORF17 | 450.1 | 570.3 | 304.3 | 303.2 | 270.9 | 379.9 | 392.5 | 492.6 |
| C15ORF2 | 102.8 | 138.8 | 92 | 82.1 | 96.2 | 93 | 104.7 | 135.4 |
| C15ORF21 | 131.4 | 145.5 | 114 | 99 | 99 | 114.3 | 128.3 | 160.1 |
| C15ORF21 | 108 | 123.7 | 108.9 | 104.9 | 101 | 104.3 | 100.7 | 93.3 |
| C15ORF21 | 112 | 111.5 | 87.3 | 92.4 | 78.3 | 86.7 | 108.8 | 116.6 |
| C15ORF23 | 908.5 | 1341.7 | 303 | 179.4 | 181.3 | 233.2 | 752.3 | 951 |
| C15ORF24 | 5256.9 | 6605.6 | 3968.4 | 3037 | 2489.6 | 3993.7 | 4704.1 | 6983.9 |
| C15ORF26 | 107.5 | 107.3 | 91.3 | 90.3 | 85.8 | 91.9 | 89.1 | 113.9 |
| C15ORF27 | 119.3 | 151.2 | 101.7 | 102 | 82.6 | 99.4 | 107.3 | 107.5 |
| C15ORF29 | 155.1 | 182.4 | 103.4 | 99 | 95.4 | 105.6 | 136.5 | 175.1 |
| C15ORF32 | 72.3 | 94.5 | 98.3 | 84.4 | 88.4 | 90.8 | 85.9 | 93.6 |
| C15ORF33 | 78.1 | 93.5 | 84.2 | 86.6 | 78.9 | 83.3 | 77.8 | 88.8 |
| C15ORF37 | 89.8 | 107.2 | 92.5 | 90.2 | 88.3 | 91.4 | 94.4 | 104.3 |
| C15ORF38 | 223.7 | 273.7 | 156 | 130.3 | 117.2 | 122.1 | 179.4 | 206 |
| C15ORF39 | 201.4 | 252 | 233.3 | 245.1 | 200.3 | 257.1 | 206.9 | 342.2 |
| C15ORF40 | 238 | 283 | 187.3 | 207.2 | 174 | 210.2 | 201.3 | 294.6 |
| C15ORF41 | 346.9 | 508.5 | 325.8 | 223.7 | 178.4 | 291 | 231.3 | 424.6 |
| C15ORF42 | 194.3 | 275.4 | 221.8 | 214.7 | 187.8 | 262.7 | 178.2 | 235.2 |
| C15ORF43 | 80.2 | 88 | 96.7 | 90.9 | 80.8 | 83.1 | 81 | 83.6 |
| C15ORF44 | 166.6 | 218.9 | 116.5 | 118.9 | 104.4 | 130.2 | 176.9 | 217.6 |
| C15ORF44 | 492 | 721.9 | 279.4 | 184.7 | 176.4 | 242.7 | 410.1 | 477.4 |
| C15ORF48 | 120.6 | 127.4 | 100.4 | 99.1 | 95.6 | 102.3 | 119.8 | 121.5 |
| C15ORF48 | 71.2 | 75.8 | 88.7 | 80.8 | 79.5 | 76.9 | 75 | 82.7 |
| C15ORF48 | 98.2 | 122.5 | 86.7 | 91.5 | 80.8 | 89 | 94.8 | 126.4 |
| C15ORF5 | 98.2 | 106.2 | 111.7 | 92.9 | 81.4 | 92 | 96.7 | 107 |

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|----------|---------|---------|---------|---------|--------|---------|---------|---------|
| C16ORF24 | 796.3 | 1131.4 | 643.5 | 524.1 | 442 | 521.5 | 689.9 | 865 |
| C16ORF25 | 100.7 | 105.5 | 113 | 90.1 | 91.1 | 110.4 | 84 | 102.6 |
| C16ORF25 | 82.6 | 86 | 98.4 | 91 | 77.5 | 83.1 | 81.4 | 96.4 |
| C16ORF28 | 200.2 | 208.6 | 162.7 | 132.3 | 123.2 | 112.9 | 315.9 | 813.6 |
| C16ORF3 | 105 | 119.8 | 89 | 86.4 | 90.1 | 83 | 110.9 | 120.7 |
| C16ORF30 | 92.2 | 98 | 98.3 | 83.2 | 92.5 | 85.6 | 80.5 | 86.8 |
| C16ORF33 | 4669.4 | 5422.9 | 5007.1 | 3068.1 | 2637.1 | 4778.2 | 3928.5 | 5798.9 |
| C16ORF34 | 255.5 | 293.8 | 159.8 | 150 | 135.5 | 198.2 | 234.3 | 288.2 |
| C16ORF35 | 90.7 | 127.1 | 91.7 | 90.8 | 85.3 | 77.3 | 89.5 | 107.3 |
| C16ORF35 | 1159.1 | 1459.7 | 698.2 | 556 | 422 | 476.6 | 818.4 | 733.6 |
| C16ORF44 | 609.4 | 793.3 | 430.1 | 300.2 | 303.9 | 335.8 | 632.6 | 770.3 |
| C16ORF45 | 121.1 | 130.8 | 105.2 | 85.5 | 88.4 | 90.5 | 102.5 | 127.1 |
| C16ORF46 | 95.6 | 121.2 | 92.5 | 94.9 | 78 | 94.5 | 99.3 | 105.8 |
| C16ORF48 | 1023 | 1219.6 | 449.1 | 345.9 | 300.9 | 383.2 | 733.2 | 715 |
| C16ORF5 | 119.2 | 138.8 | 124.1 | 99 | 100.7 | 112.6 | 137.2 | 166.9 |
| C16ORF50 | 238.4 | 320.8 | 112.1 | 98.1 | 108.3 | 110.1 | 242.1 | 268.2 |
| C16ORF53 | 1704.8 | 2214.6 | 560.5 | 347.3 | 249.4 | 390.4 | 1401 | 1863.5 |
| C16ORF54 | 124.3 | 174.9 | 96.4 | 83.4 | 87.7 | 79.3 | 131.1 | 140.4 |
| C16ORF55 | 97.5 | 118.5 | 92.8 | 86.8 | 81.5 | 84.2 | 90.3 | 121.6 |
| C16ORF56 | 360.2 | 363.2 | 542.6 | 411.2 | 488.3 | 867.6 | 251.9 | 447.8 |
| C16ORF57 | 850 | 909 | 328.5 | 327.6 | 259 | 288.8 | 749.3 | 723.3 |
| C16ORF58 | 2829.3 | 3433.1 | 1502 | 1625.9 | 1443.7 | 1688.2 | 2159.8 | 1720.6 |
| C16ORF60 | 1623.5 | 2233.4 | 925.9 | 641.4 | 542.4 | 684.4 | 1392.4 | 1825.9 |
| C16ORF61 | 4856.7 | 6247.1 | 3057.9 | 2393.3 | 1898.7 | 2424 | 4407.9 | 4896.3 |
| C16ORF63 | 3799 | 3484.1 | 2240.3 | 2225.5 | 1607.8 | 2133.1 | 3314 | 7070.9 |
| C16ORF69 | 93.2 | 110.4 | 109.5 | 86.8 | 93.7 | 94 | 88.9 | 102.9 |
| C16ORF7 | 143.5 | 189.7 | 155.9 | 172.9 | 166.8 | 188.1 | 141.2 | 211 |
| C16ORF78 | 81.7 | 89.4 | 91.5 | 82.9 | 76.1 | 74.8 | 85.3 | 86.6 |
| C16ORF80 | 1472.5 | 1794.9 | 787.1 | 624.3 | 385.4 | 617.7 | 1093.2 | 1640.3 |
| C16ORF9 | 398.3 | 508.8 | 631 | 422.4 | 347.7 | 643.9 | 400.1 | 821.9 |
| C17ORF25 | 1279 | 1573.7 | 419.1 | 346.1 | 243.6 | 517.7 | 962.7 | 1510.3 |
| C17ORF27 | 91.2 | 107.5 | 100.4 | 89.4 | 96.1 | 89.3 | 102.2 | 106.8 |
| C17ORF28 | 83.2 | 91.1 | 98.6 | 99.7 | 84.5 | 86.7 | 84.6 | 90.1 |
| C17ORF32 | 453 | 539.3 | 209.1 | 188.2 | 159.8 | 209.6 | 403.3 | 836.4 |
| C17ORF37 | 158 | 200.5 | 116.5 | 112.8 | 107.1 | 103.9 | 139.4 | 180.1 |
| C17ORF38 | 89.1 | 94.5 | 96.6 | 100.2 | 96.2 | 90.5 | 99.8 | 108.1 |
| C17ORF39 | 212.1 | 269.4 | 133.2 | 107.3 | 103.7 | 102.6 | 214.2 | 285.5 |
| C17ORF40 | 3016.8 | 3414.9 | 1099 | 1288.4 | 919.2 | 1581.2 | 2288 | 2913.8 |
| C17ORF42 | 79.9 | 93.7 | 115 | 105.2 | 93.7 | 110.2 | 80.4 | 96.1 |
| C17ORF45 | 14919.6 | 21094.6 | 12171.2 | 12597.6 | 9374.3 | 14663.9 | 15728.6 | 17100.1 |
| C17ORF46 | 130.5 | 130.4 | 101 | 91.6 | 102.4 | 91.8 | 120.9 | 130.4 |
| C17ORF47 | 104.2 | 149.2 | 102.9 | 80.7 | 71 | 91.7 | 106.4 | 140.3 |
| C17ORF47 | 144.2 | 179.7 | 105.3 | 90.1 | 90.9 | 88.7 | 139.8 | 181.1 |
| C17ORF48 | 166.9 | 204.1 | 125.8 | 155 | 123.2 | 166.3 | 156.4 | 257 |
| C17ORF49 | 712 | 933.1 | 646.5 | 540.4 | 452.7 | 534.6 | 761.8 | 1137.9 |
| C17ORF50 | 86.3 | 86.9 | 98.4 | 106.4 | 96.7 | 91.1 | 84.2 | 88.6 |
| C17ORF53 | 851.4 | 1000.3 | 615.2 | 429.3 | 425.8 | 424.8 | 622.2 | 507.4 |
| C17ORF54 | 91.9 | 100.5 | 110.7 | 94.2 | 97.9 | 87.1 | 90.4 | 89.2 |
| C17ORF55 | 98.5 | 108.8 | 140.6 | 150.1 | 163.9 | 197.1 | 91.5 | 98.4 |
| C17ORF56 | 148.6 | 147.8 | 121 | 111.2 | 113.8 | 119.5 | 120.1 | 170.4 |

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| C17ORF57 | 104.8 | 112.4 | 99.3 | 84.5 | 79.2 | 88 | 96.3 | 114.6 |
| C17ORF58 | 1351.7 | 1698.2 | 921.9 | 633.6 | 491.7 | 793.2 | 1024.2 | 1442.2 |
| C17ORF58 | 938.9 | 1101.3 | 769.1 | 505.6 | 388.2 | 578.2 | 741.9 | 1059.1 |
| C17ORF58 | 118.3 | 159.3 | 111.8 | 104.1 | 96.8 | 100.5 | 117.7 | 134.8 |
| C17ORF59 | 98.7 | 109.7 | 98.8 | 99.7 | 86 | 98.3 | 102.1 | 115.8 |
| C17ORF61 | 2036.3 | 2508.5 | 1787.4 | 1871.4 | 1680.3 | 1867.9 | 2150.2 | 1902.8 |
| C17ORF62 | 772.1 | 987.8 | 913.3 | 689.6 | 595.6 | 1173.5 | 544.6 | 959.4 |
| C17ORF63 | 240.8 | 290.9 | 240.7 | 326 | 270.8 | 282.5 | 251.7 | 479.8 |
| C17ORF64 | 150 | 175.3 | 111.3 | 102.4 | 95.9 | 99.9 | 145.5 | 159.3 |
| C17ORF65 | 127.1 | 157 | 222.7 | 153.1 | 151.4 | 173.5 | 108.7 | 173 |
| C17ORF66 | 84.3 | 82.4 | 96.1 | 83.2 | 89.3 | 90.2 | 79.3 | 83.5 |
| C17ORF68 | 194.9 | 231.5 | 162.9 | 157.9 | 147.6 | 161.5 | 143.2 | 142.8 |
| C17ORF68 | 133.2 | 156.2 | 109.9 | 110.6 | 111.6 | 105.6 | 119.9 | 113.5 |
| C17ORF69 | 67.1 | 76.3 | 84.5 | 79.2 | 72 | 77.9 | 72 | 82.9 |
| C17ORF70 | 1711.1 | 2121.4 | 1490 | 1434.9 | 1230.3 | 1436.8 | 1059.1 | 1004.3 |
| C17ORF71 | 430.9 | 522.7 | 194.5 | 158.5 | 133.3 | 169.5 | 365.6 | 500.1 |
| C17ORF73 | 137.9 | 172.2 | 104.4 | 106.7 | 102.8 | 114.3 | 138.2 | 161.7 |
| C17ORF74 | 128.2 | 169.4 | 116.8 | 111.3 | 105 | 126.8 | 135.3 | 151.2 |
| C17ORF75 | 178.7 | 180.8 | 120.8 | 118.5 | 109.2 | 93.4 | 139.8 | 177.4 |
| C17ORF76 | 122.1 | 137.5 | 102.9 | 98.5 | 90.7 | 101.7 | 119 | 125.5 |
| C17ORF77 | 70.3 | 75.5 | 77.6 | 80.9 | 78.6 | 74.5 | 76.3 | 74.2 |
| C17ORF78 | 92.1 | 107.1 | 89.5 | 91.6 | 80.1 | 89.5 | 89.1 | 88.9 |
| C17ORF79 | 780.5 | 907.4 | 243.3 | 229.1 | 162.1 | 267.5 | 681.8 | 726.2 |
| C17ORF80 | 282.4 | 376.3 | 214 | 205.2 | 196.5 | 295 | 190.1 | 244.1 |
| C17ORF81 | 162.4 | 169.4 | 135.4 | 97.5 | 100.9 | 115.5 | 154.6 | 190 |
| C17ORF81 | 322.3 | 439.3 | 234.2 | 202.5 | 171.1 | 218.3 | 270.6 | 286.2 |
| C17ORF81 | 161.6 | 239.7 | 158.5 | 149.2 | 124.5 | 171.8 | 151.7 | 188.4 |
| C17ORF81 | 106.2 | 128.7 | 87 | 86.1 | 75.9 | 82.6 | 97 | 111.8 |
| C17ORF83 | 99.2 | 99 | 105.6 | 92.1 | 94.2 | 82.1 | 92.3 | 97.3 |
| C17ORF85 | 262 | 265.1 | 215 | 226.8 | 220.9 | 270.8 | 245.6 | 302.6 |
| C18ORF1 | 95.4 | 118.1 | 91.7 | 85.2 | 85.1 | 81.1 | 98.9 | 110 |
| C18ORF10 | 948.5 | 1313.6 | 365.1 | 370 | 261.3 | 465.6 | 727.5 | 1302.2 |
| C18ORF14 | 84.8 | 94 | 85.6 | 83.9 | 78.3 | 85.3 | 95.2 | 91.4 |
| C18ORF17 | 321.7 | 408.1 | 246.3 | 237.3 | 204.2 | 321.8 | 313.6 | 405.8 |
| C18ORF19 | 540.1 | 730.6 | 222.7 | 240.7 | 204.7 | 241 | 356.7 | 473.5 |
| C18ORF21 | 673.6 | 977.4 | 282.1 | 336.8 | 275.4 | 354.6 | 682.9 | 1186.8 |
| C18ORF22 | 502 | 639 | 335.1 | 235.3 | 218.7 | 296 | 352.2 | 382.7 |
| C18ORF24 | 379.3 | 497.9 | 263.7 | 210.9 | 189.2 | 269.8 | 322 | 525.5 |
| C18ORF25 | 1092.9 | 1362.5 | 986.5 | 1320.3 | 1010.7 | 1506.4 | 981.6 | 1464.3 |
| C18ORF25 | 90.8 | 94.1 | 78.7 | 78.6 | 77.4 | 83.6 | 95.4 | 104 |
| C18ORF26 | 99.1 | 95.4 | 91.6 | 86.2 | 88.3 | 87.4 | 84.6 | 108.5 |
| C18ORF34 | 84.1 | 91.3 | 97.1 | 90.8 | 91 | 86.1 | 89.5 | 95.2 |
| C18ORF37 | 815.7 | 1026.7 | 429.1 | 361.9 | 311.7 | 471.3 | 650.9 | 809.9 |
| C18ORF45 | 172.8 | 311.7 | 122.9 | 135.2 | 125.1 | 108.7 | 205 | 202.3 |
| C18ORF51 | 106.7 | 122.5 | 98.3 | 78.8 | 85.4 | 89.1 | 89.5 | 98.2 |
| C18ORF51 | 112.2 | 119.3 | 95.4 | 85.9 | 82.5 | 79.6 | 99.2 | 130.5 |
| C18ORF54 | 311.5 | 410.3 | 237.4 | 176.3 | 175.8 | 212.2 | 284.8 | 390.6 |
| C18ORF55 | 3425.2 | 4064.3 | 2107.4 | 2284.7 | 1777.9 | 2971 | 2358.2 | 3634.2 |
| C18ORF56 | 917.7 | 1103.4 | 735 | 561.4 | 454.7 | 384.8 | 796.7 | 1231.4 |
| C18ORF8 | 562 | 768.4 | 364.4 | 353.1 | 328.2 | 428.8 | 513.6 | 1145.5 |

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| C19ORF10 | 2760.1 | 3329.6 | 1808 | 956 | 885.8 | 1159.5 | 2856.4 | 3436.2 |
| C19ORF12 | 93.9 | 108.8 | 97.5 | 90.7 | 94.2 | 90.6 | 83.6 | 93.7 |
| C19ORF12 | 280.9 | 332.2 | 197.4 | 136.3 | 141.7 | 173.2 | 245.7 | 337.4 |
| C19ORF12 | 747.5 | 1022.1 | 440.9 | 326.5 | 316.6 | 406.5 | 582.6 | 613.6 |
| C19ORF12 | 128.3 | 163.2 | 93.5 | 95.8 | 82.3 | 76.7 | 141.1 | 164.4 |
| C19ORF15 | 100.6 | 117.1 | 99.1 | 101.6 | 90 | 97 | 94 | 102.1 |
| C19ORF18 | 87.5 | 94.9 | 89.6 | 89.4 | 86.4 | 90 | 83.3 | 90.2 |
| C19ORF19 | 86.4 | 93.3 | 90.5 | 89.8 | 90.4 | 85.3 | 90.8 | 101.3 |
| C19ORF2 | 1233.5 | 1821.6 | 499.7 | 454.9 | 337.3 | 589 | 997.8 | 1303.4 |
| C19ORF2 | 4785.2 | 6254.2 | 2987.6 | 2722.5 | 1922.2 | 3576 | 4034.8 | 4942.5 |
| C19ORF20 | 116.3 | 153.1 | 110.2 | 102.6 | 103.7 | 110.5 | 126.5 | 158.8 |
| C19ORF21 | 111 | 122.2 | 124.2 | 112.4 | 118.8 | 107.4 | 97.2 | 108.7 |
| C19ORF22 | 946.2 | 1305.1 | 885.5 | 800.8 | 595.8 | 761.9 | 871.5 | 1726 |
| C19ORF23 | 133.6 | 149.9 | 115.7 | 110.3 | 99 | 107.3 | 130.3 | 152.2 |
| C19ORF24 | 508.4 | 612.4 | 383.6 | 271.8 | 212.9 | 235.9 | 466 | 589 |
| C19ORF25 | 241.3 | 265.1 | 296.3 | 251.5 | 222.6 | 260.7 | 212.8 | 399.4 |
| C19ORF26 | 155.4 | 197 | 88.3 | 96.8 | 74.6 | 82.5 | 159.5 | 190.1 |
| C19ORF28 | 161.2 | 176.2 | 100.4 | 104.3 | 84.7 | 104.8 | 140.9 | 191.6 |
| C19ORF28 | 221.1 | 257.5 | 171.6 | 156 | 132.8 | 146.9 | 208.3 | 267.7 |
| C19ORF29 | 164.5 | 197.3 | 171.7 | 160.4 | 129.3 | 217.9 | 156.4 | 215.9 |
| C19ORF29 | 144 | 171.1 | 118.5 | 106 | 100 | 142 | 125.6 | 180.2 |
| C19ORF30 | 154.7 | 165.3 | 102.9 | 106.2 | 101.8 | 104.9 | 147.9 | 162.2 |
| C19ORF31 | 27860.4 | 28416.7 | 20720.6 | 23558.3 | 25622.1 | 23808.6 | 28879.4 | 27836.1 |
| C19ORF33 | 78 | 83.4 | 83.8 | 77.5 | 78.3 | 85.5 | 82.4 | 86.8 |
| C19ORF34 | 94.2 | 95.1 | 84.6 | 104.3 | 76.5 | 87.5 | 101 | 114.6 |
| C19ORF35 | 94.3 | 105.9 | 105 | 109.2 | 91.4 | 97 | 92.2 | 98.8 |
| C19ORF36 | 94.7 | 113.4 | 93.9 | 92.3 | 79.2 | 104.8 | 104 | 108.2 |
| C19ORF36 | 94.3 | 94.7 | 106.7 | 85.2 | 89.3 | 84.3 | 83.1 | 90.3 |
| C19ORF37 | 3129.2 | 3736.6 | 1574.4 | 1384.6 | 1152.2 | 1424.7 | 3164.3 | 2872.2 |
| C19ORF4 | 87.2 | 96.5 | 97 | 93.3 | 99.1 | 92.9 | 90.1 | 101.3 |
| C19ORF40 | 264.2 | 360.4 | 229.7 | 204.4 | 203.3 | 241.7 | 222 | 227.1 |
| C19ORF48 | 1185 | 1532.5 | 576.9 | 276.4 | 268 | 297.1 | 1128.5 | 1150.9 |
| C19ORF55 | 107.9 | 121.4 | 102.9 | 95.9 | 98.2 | 98 | 100.4 | 108.3 |
| C19ORF6 | 240.1 | 284.2 | 198.2 | 172.4 | 185.7 | 134.6 | 216.9 | 356.8 |
| C19ORF6 | 445.2 | 529 | 386 | 407.9 | 381.2 | 761.4 | 377.9 | 652.7 |
| C19ORF7 | 1291.8 | 1501 | 1148.3 | 992 | 711.2 | 939.5 | 1189.2 | 1866.9 |
| C1D | 115.1 | 135.6 | 95.1 | 91.5 | 85.7 | 89.4 | 124.6 | 153.4 |
| C1D | 89.6 | 90.6 | 80.7 | 82 | 84.6 | 82 | 93.7 | 89.4 |
| C1GALT1 | 199.9 | 238.2 | 134.6 | 128.7 | 110.5 | 139.4 | 168.6 | 272.8 |
| C1GALT1C1 | 87.7 | 88.3 | 90.3 | 93.9 | 91.5 | 78.5 | 85.5 | 97.4 |
| C1GALT1C1 | 264 | 309.6 | 162.3 | 171.1 | 150.3 | 192.3 | 232.5 | 296 |
| C1ORF100 | 93.3 | 118.8 | 105.9 | 85.1 | 87.5 | 83.7 | 96.8 | 109.7 |
| C1ORF101 | 141 | 130.6 | 141.9 | 153.2 | 147.2 | 172.5 | 117.3 | 157.9 |
| C1ORF102 | 109.7 | 122.2 | 99.1 | 92.9 | 83.2 | 85.3 | 106.6 | 110.3 |
| C1ORF102 | 97.8 | 127.3 | 107.2 | 86.2 | 90 | 93.4 | 100.1 | 134 |
| C1ORF102 | 99.3 | 114.2 | 99.9 | 94.1 | 85.9 | 96.5 | 91.8 | 92.5 |
| C1ORF103 | 87.9 | 87.5 | 84.1 | 80.3 | 89.7 | 83.4 | 82.2 | 80.7 |
| C1ORF103 | 333.6 | 448 | 154.9 | 118.8 | 107.5 | 119.2 | 253.7 | 511.1 |
| C1ORF104 | 108.3 | 134.5 | 103.2 | 92.1 | 99.5 | 103.7 | 107 | 118.3 |
| C1ORF105 | 107.3 | 137.4 | 88.3 | 85.5 | 80.6 | 89.3 | 109.8 | 134.6 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| C1ORF106 | 885.5 | 995.3 | 1120.7 | 399.4 | 314.4 | 456.2 | 524.6 | 629 |
| C1ORF107 | 187.2 | 230.4 | 176.4 | 197.7 | 178.2 | 233.4 | 178.9 | 224.5 |
| C1ORF108 | 734.9 | 931.9 | 448.5 | 439.2 | 352.9 | 359.8 | 677.8 | 1122.7 |
| C1ORF108 | 181.6 | 227.7 | 103 | 102 | 101.6 | 83.8 | 158.3 | 189.6 |
| C1ORF108 | 905 | 1130.8 | 385.7 | 329.2 | 299.4 | 271.3 | 665 | 1009.4 |
| C1ORF109 | 476 | 694.7 | 415.3 | 322.3 | 280.4 | 440.9 | 377.7 | 526.9 |
| C1ORF110 | 102.5 | 113.5 | 91.1 | 94.3 | 82.4 | 85.6 | 93.5 | 100.6 |
| C1ORF111 | 85.4 | 100.7 | 102.6 | 101 | 85.5 | 101.6 | 90.7 | 94.8 |
| C1ORF112 | 828.1 | 1026.7 | 650 | 459.5 | 395.1 | 557 | 582.2 | 598.5 |
| C1ORF113 | 127.7 | 151.7 | 97.5 | 93.6 | 88.3 | 89.9 | 125.1 | 139.8 |
| C1ORF114 | 121.1 | 123.6 | 90.1 | 69.6 | 76.8 | 84 | 116 | 115.4 |
| C1ORF115 | 105 | 118.7 | 114.1 | 130.6 | 123.1 | 177.2 | 108 | 122.8 |
| C1ORF116 | 94.5 | 93.6 | 94.2 | 85.9 | 85.9 | 88.3 | 89.8 | 90.8 |
| C1ORF117 | 108.9 | 135.9 | 94.3 | 94 | 72.3 | 84 | 113.4 | 117.3 |
| C1ORF118 | 100.2 | 102.8 | 90.5 | 82.4 | 76.2 | 93.9 | 85.6 | 107 |
| C1ORF119 | 1024.7 | 1347 | 604.1 | 399.6 | 311.4 | 545.8 | 857.3 | 1312.2 |
| C1ORF121 | 1506 | 2030.7 | 757 | 648 | 399 | 780.8 | 1194.7 | 2153.8 |
| C1ORF122 | 230.4 | 291.3 | 220.3 | 205.8 | 177 | 231.7 | 215.7 | 325.5 |
| C1ORF123 | 1235 | 1592.3 | 1031.5 | 1098.8 | 872.2 | 1214.6 | 899.8 | 1036 |
| C1ORF124 | 650.8 | 893.3 | 410.1 | 330.8 | 253.1 | 483.6 | 524.1 | 733.7 |
| C1ORF124 | 490.9 | 604.5 | 217.7 | 179.4 | 163.9 | 209.5 | 327.3 | 491.9 |
| C1ORF124 | 152.6 | 204 | 129.8 | 100.7 | 101.3 | 121.3 | 145.5 | 169.6 |
| C1ORF125 | 97.1 | 114.8 | 97.6 | 91.2 | 100.8 | 94.8 | 101.9 | 101.3 |
| C1ORF125 | 80.5 | 91.3 | 88.7 | 95.5 | 85.6 | 82.5 | 91.8 | 90.7 |
| C1ORF127 | 106.1 | 162 | 96.1 | 86.5 | 84 | 85.2 | 125.5 | 149.7 |
| C1ORF128 | 1293.6 | 1876.3 | 1217.3 | 1155.1 | 842.8 | 1740.3 | 1299.4 | 1769.8 |
| C1ORF129 | 121.5 | 133.7 | 114.1 | 101.8 | 86.9 | 88.6 | 115.2 | 118.3 |
| C1ORF131 | 3152.5 | 3707.6 | 2973.8 | 2553.6 | 1975 | 3311.8 | 2777.7 | 4945.1 |
| C1ORF135 | 459.9 | 603.9 | 302.4 | 226.7 | 181.5 | 238.1 | 381.2 | 503.2 |
| C1ORF14 | 74.3 | 88.6 | 92.5 | 86.3 | 86 | 86.1 | 71.5 | 82.7 |
| C1ORF140 | 82 | 101.5 | 103.9 | 101.8 | 97.3 | 102 | 79.7 | 87.7 |
| C1ORF141 | 72.9 | 73.8 | 103.2 | 101.7 | 93.6 | 96.1 | 81 | 80.5 |
| C1ORF142 | 236.6 | 309 | 243.6 | 206.5 | 148.1 | 219.4 | 226.9 | 349.7 |
| C1ORF144 | 830.4 | 1138 | 495.3 | 516.9 | 434.4 | 604.9 | 763.7 | 865 |
| C1ORF146 | 83.1 | 82.9 | 85.1 | 88.6 | 91 | 79.9 | 80.7 | 83 |
| C1ORF149 | 277.1 | 359.4 | 244.3 | 208.6 | 159.5 | 256.5 | 214.3 | 322.3 |
| C1ORF150 | 93.4 | 99.5 | 89.9 | 80.8 | 87.9 | 83.2 | 98.4 | 95.9 |
| C1ORF151 | 97.7 | 113.8 | 91.7 | 101.3 | 89 | 94.7 | 103.3 | 102.4 |
| C1ORF152 | 91.8 | 103.7 | 74.1 | 97.1 | 74.9 | 79.5 | 92.6 | 99.6 |
| C1ORF155 | 1104 | 1430.7 | 602.2 | 503.1 | 395 | 461.5 | 890.5 | 1790.7 |
| C1ORF156 | 80.2 | 98 | 85 | 79.7 | 75.4 | 89.7 | 90.4 | 98.2 |
| C1ORF157 | 82.3 | 96.1 | 105.8 | 83.1 | 83.5 | 78.9 | 93.8 | 100.2 |
| C1ORF158 | 91.8 | 100.8 | 96.3 | 99.3 | 88.1 | 87.3 | 86.4 | 102.3 |
| C1ORF159 | 194.6 | 240.6 | 207.4 | 191.7 | 152.3 | 230.8 | 163.3 | 242 |
| C1ORF160 | 212.3 | 244 | 181 | 155 | 139.2 | 183.7 | 206 | 390.6 |
| C1ORF162 | 3557.3 | 4447.1 | 2333.4 | 1903.7 | 1172.8 | 1825.3 | 3209.7 | 3463.9 |
| C1ORF163 | 541.1 | 769.1 | 301.9 | 295.8 | 236.1 | 248.1 | 489.5 | 524.5 |
| C1ORF164 | 1401.7 | 1643.2 | 1160.7 | 785.2 | 732.4 | 913.7 | 1315.7 | 1083.7 |
| C1ORF165 | 112.5 | 130.9 | 103.9 | 94 | 102 | 103.7 | 100 | 117.9 |
| C1ORF166 | 203.8 | 211.5 | 127.7 | 146.4 | 125.6 | 161.7 | 174.7 | 304.8 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| C1ORF168 | 78.3 | 91.2 | 92.7 | 82.8 | 87.6 | 87.6 | 76.1 | 86.4 |
| C1ORF171 | 623.8 | 881.1 | 207.1 | 225.2 | 178.4 | 282.5 | 502.4 | 718.3 |
| C1ORF172 | 98.5 | 112.4 | 107.5 | 93.6 | 86.2 | 94 | 95.6 | 104.8 |
| C1ORF173 | 85.2 | 99.3 | 108.5 | 98.4 | 93.9 | 93.3 | 92.3 | 87.4 |
| C1ORF175 | 94.1 | 119.7 | 93.7 | 99.8 | 96.2 | 97.9 | 87.2 | 100.6 |
| C1ORF176 | 687.1 | 644.3 | 377.8 | 552.9 | 549.4 | 404.2 | 633.5 | 1118 |
| C1ORF177 | 98.1 | 108.7 | 105.4 | 99 | 103.6 | 101.3 | 90.2 | 118.6 |
| C1ORF178 | 78.3 | 86.5 | 85.1 | 78.3 | 80.5 | 80.8 | 76.9 | 95.3 |
| C1ORF178 | 97.7 | 97.3 | 98.1 | 99.3 | 89.6 | 96.5 | 83.8 | 98.2 |
| C1ORF179 | 80.5 | 107.1 | 89.4 | 84.9 | 82.1 | 76.6 | 79.7 | 89.5 |
| C1ORF181 | 973.6 | 1301.9 | 652.6 | 850.3 | 605.9 | 1153.3 | 845.1 | 1202.5 |
| C1ORF182 | 107.2 | 155.5 | 120.1 | 102.6 | 103.1 | 108.7 | 126.9 | 130.4 |
| C1ORF183 | 98.3 | 108.1 | 92.7 | 100.7 | 100.3 | 90.8 | 110.7 | 108.2 |
| C1ORF183 | 103.7 | 103.1 | 89.2 | 85.5 | 86.4 | 99.2 | 94.9 | 99.6 |
| C1ORF183 | 101.2 | 96.1 | 97.5 | 103.6 | 93.6 | 111.6 | 96 | 103.3 |
| C1ORF186 | 506.2 | 519.1 | 371.8 | 196.5 | 152.2 | 210.9 | 269.8 | 372.7 |
| C1ORF187 | 92.7 | 114.1 | 98.8 | 94.7 | 90.2 | 98.2 | 95.8 | 102.6 |
| C1ORF188 | 126.8 | 148.9 | 163.6 | 121.9 | 131.3 | 137.8 | 104 | 101.8 |
| C1ORF189 | 83.8 | 114 | 91 | 83 | 85.4 | 85.9 | 84.9 | 104.7 |
| C1ORF19 | 2584.8 | 3620.6 | 1611.1 | 1167.8 | 763.7 | 1368.7 | 2150.3 | 2953.3 |
| C1ORF190 | 104.3 | 124 | 97.9 | 93.2 | 90.5 | 96.8 | 105.2 | 113.5 |
| C1ORF192 | 113.2 | 133.9 | 107.6 | 83.7 | 84.7 | 102.1 | 108.6 | 121.3 |
| C1ORF198 | 252.1 | 323.8 | 244.5 | 216.4 | 186 | 254.9 | 256.8 | 399.9 |
| C1ORF2 | 2217.1 | 2988.4 | 1051 | 912.2 | 727.1 | 742.5 | 1556.5 | 1309.5 |
| C1ORF2 | 78.5 | 99.4 | 102.9 | 95.6 | 86.1 | 85.7 | 84.2 | 94.4 |
| C1ORF2 | 122 | 149.4 | 142.9 | 115.9 | 132.1 | 162 | 118.9 | 143.5 |
| C1ORF201 | 135.4 | 157.7 | 95.1 | 80.8 | 87.7 | 92.3 | 145.6 | 155.1 |
| C1ORF21 | 111.6 | 124.7 | 120.6 | 119.1 | 122.6 | 127 | 116 | 125.4 |
| C1ORF210 | 92.2 | 112.8 | 100.9 | 93.4 | 93.6 | 86.2 | 96.5 | 99 |
| C1ORF24 | 517.6 | 676.6 | 427.9 | 689.7 | 553.8 | 357.1 | 639.2 | 941.9 |
| C1ORF25 | 122 | 130 | 95.9 | 93.8 | 90.6 | 82.4 | 110.2 | 156.4 |
| C1ORF26 | 145.6 | 141.8 | 102.1 | 92.8 | 89.3 | 93 | 129.5 | 159.9 |
| C1ORF27 | 90.3 | 108.4 | 93.3 | 79.6 | 84.3 | 89.4 | 101.6 | 103.5 |
| C1ORF31 | 572.3 | 635.6 | 331.6 | 354.3 | 303.5 | 423.9 | 529.6 | 888.7 |
| C1ORF32 | 92.3 | 116.4 | 93.8 | 88.8 | 90.9 | 90.7 | 102.1 | 112.8 |
| C1ORF33 | 987.1 | 1235.2 | 556.9 | 509.9 | 376.7 | 419.9 | 733.1 | 891.7 |
| C1ORF34 | 97.6 | 96.1 | 94.1 | 89.9 | 92.8 | 96 | 93.9 | 97.5 |
| C1ORF35 | 819.8 | 948 | 643.1 | 646.2 | 556.3 | 788.7 | 627.6 | 939.2 |
| C1ORF36 | 97.7 | 124.3 | 104.9 | 82.2 | 82.9 | 93.2 | 97.3 | 130.6 |
| C1ORF37 | 5143.8 | 6496.5 | 3502 | 3062.3 | 2284.2 | 4182.1 | 5074.4 | 6388.7 |
| C1ORF38 | 111.1 | 122.2 | 95.6 | 101.6 | 87.4 | 94 | 121.3 | 113.5 |
| C1ORF41 | 3216.9 | 4079.4 | 2209.7 | 2067.1 | 1692.7 | 2784.8 | 2451.3 | 3104.5 |
| C1ORF42 | 80.9 | 89.7 | 101.7 | 95.5 | 93.8 | 104.1 | 85.2 | 90.4 |
| C1ORF43 | 2467 | 2912.8 | 868.8 | 785.8 | 607.4 | 735.7 | 2071.7 | 3546.3 |
| C1ORF43 | 1271 | 1609.1 | 396.6 | 204.4 | 224.3 | 332.7 | 903.7 | 1522.3 |
| C1ORF45 | 84.1 | 94.8 | 90.2 | 90.1 | 84.4 | 80.7 | 89.9 | 88.5 |
| C1ORF48 | 3129.8 | 4220.3 | 2015.1 | 1714.3 | 1260.9 | 1913.8 | 2955.9 | 4762 |
| C1ORF49 | 81.1 | 97 | 102.3 | 81 | 84.4 | 86.7 | 96.3 | 112.7 |
| C1ORF50 | 1867.1 | 2409.8 | 1650.2 | 1776.9 | 1514.7 | 1961.8 | 1771.4 | 1961.5 |
| C1ORF51 | 130.9 | 128.6 | 119.5 | 92.4 | 97.7 | 90.6 | 101.3 | 167.1 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| C1ORF52 | 922.8 | 1157.2 | 738.3 | 814.7 | 697.2 | 860.9 | 939.9 | 1328.3 |
| C1ORF53 | 687.2 | 819.3 | 533.2 | 652.3 | 503.1 | 673.1 | 568.7 | 1001.6 |
| C1ORF54 | 5367.3 | 5727.2 | 4120.1 | 3043.9 | 2326.6 | 3250.2 | 5316.3 | 5929.6 |
| C1ORF55 | 742.9 | 861.5 | 490.9 | 583.7 | 487 | 828.3 | 637.9 | 1498.9 |
| C1ORF56 | 182.6 | 212.3 | 114.3 | 124 | 106.6 | 115.2 | 155 | 244.7 |
| C1ORF57 | 1746.3 | 2203.9 | 1094.3 | 1015.5 | 737.5 | 1212.2 | 1597.1 | 2800.1 |
| C1ORF58 | 282.4 | 285.7 | 114 | 86.8 | 87 | 101.2 | 186.8 | 282.6 |
| C1ORF59 | 3308.4 | 4258.2 | 2875.2 | 1920.5 | 1417.5 | 2226.7 | 2565.8 | 3644.6 |
| C1ORF60 | 482.1 | 483.4 | 602.4 | 716 | 654.1 | 1151.3 | 387.4 | 612 |
| C1ORF61 | 77.5 | 79.3 | 98.5 | 90.2 | 83.3 | 85 | 78.1 | 80.4 |
| C1ORF62 | 98.6 | 110.6 | 88.1 | 94.1 | 79.1 | 90.9 | 104.4 | 101.7 |
| C1ORF63 | 488.2 | 533.6 | 139.2 | 173.1 | 138.8 | 182.2 | 405.4 | 673.8 |
| C1ORF64 | 91.1 | 97 | 89.8 | 85 | 90.9 | 82.9 | 100.7 | 94.9 |
| C1ORF65 | 72.3 | 80.7 | 92 | 79.8 | 79.6 | 86 | 83.5 | 82.2 |
| C1ORF66 | 389.6 | 437.1 | 512 | 307.6 | 322.8 | 458.5 | 354.2 | 445.7 |
| C1ORF69 | 194.6 | 239.9 | 227.6 | 187.7 | 177.3 | 233.7 | 181.1 | 255.6 |
| C1ORF71 | 1468.6 | 1779 | 1137.4 | 1062.6 | 905.6 | 863.8 | 811.1 | 1515.9 |
| C1ORF73 | 435.4 | 595.1 | 293.2 | 219.5 | 202.9 | 272.6 | 393 | 505.6 |
| C1ORF74 | 359.8 | 493.1 | 200.9 | 149.8 | 118.3 | 144.3 | 391.1 | 410.8 |
| C1ORF75 | 98.5 | 120.4 | 103.8 | 95.2 | 93.3 | 105.6 | 86.6 | 104.6 |
| C1ORF76 | 154.9 | 183.3 | 142.9 | 154.9 | 140.8 | 151.2 | 133.4 | 141.5 |
| C1ORF77 | 1439.4 | 1800.7 | 720.2 | 698 | 607.4 | 851.1 | 1220.3 | 1184.7 |
| C1ORF78 | 124.3 | 134.5 | 96 | 97.8 | 96.5 | 99.9 | 122.8 | 133.6 |
| C1ORF82 | 449.4 | 606.7 | 334.7 | 535.1 | 436 | 574.1 | 394.2 | 557.7 |
| C1ORF83 | 288.6 | 393 | 208.7 | 237.7 | 205.2 | 334.8 | 230.2 | 303.6 |
| C1ORF84 | 144.7 | 136.6 | 125.3 | 117.6 | 121.5 | 137.5 | 120.1 | 163.6 |
| C1ORF84 | 142 | 187.6 | 124.4 | 130.7 | 110.7 | 111.4 | 121.2 | 142 |
| C1ORF84 | 142.2 | 169 | 111.5 | 101.5 | 114.7 | 107.3 | 135 | 142.1 |
| C1ORF85 | 1554.6 | 2119.2 | 970.5 | 1020.8 | 783.1 | 1001.2 | 1472 | 1391.8 |
| C1ORF86 | 530.8 | 707 | 513.4 | 363.2 | 325.5 | 398.3 | 473.7 | 670.7 |
| C1ORF87 | 104.1 | 118.3 | 98.2 | 82.4 | 80.4 | 91.4 | 103.7 | 110.4 |
| C1ORF88 | 117.7 | 141.3 | 109.9 | 93.7 | 104.2 | 94 | 123.1 | 150 |
| C1ORF89 | 109.7 | 138.5 | 100.7 | 97 | 90.2 | 104.7 | 107.3 | 112.2 |
| C1ORF9 | 94.8 | 102.2 | 85.5 | 78.9 | 82.2 | 82.2 | 75.9 | 100.5 |
| C1ORF9 | 118.6 | 115.4 | 92.4 | 91.3 | 86.7 | 87.5 | 124.3 | 129.4 |
| C1ORF9 | 100.6 | 121.9 | 108.7 | 86.9 | 91.6 | 98.5 | 101.8 | 115.2 |
| C1ORF90 | 105.4 | 134.5 | 94.8 | 76.6 | 81.7 | 94 | 107.7 | 125.6 |
| C1ORF91 | 107.2 | 141.9 | 96.2 | 84.3 | 74.3 | 80.4 | 100.9 | 124.3 |
| C1ORF92 | 105.5 | 106.1 | 94.4 | 86.1 | 85.2 | 92 | 84.8 | 109.1 |
| C1ORF94 | 113.9 | 137.5 | 99.8 | 93.5 | 84.3 | 84.8 | 127.1 | 120.7 |
| C1ORF95 | 93.5 | 97.9 | 84.7 | 80 | 78.1 | 78.4 | 101.4 | 111.1 |
| C1ORF96 | 156.6 | 199 | 115.8 | 109.3 | 98.6 | 126.7 | 140.2 | 171 |
| C1ORF97 | 947.9 | 1085.8 | 524.9 | 565.6 | 396.6 | 588.6 | 918 | 1282.6 |
| C1ORF99 | 90.7 | 107.7 | 87.3 | 79.4 | 85.7 | 81.2 | 95.3 | 102.7 |
| C1QA | 127.6 | 152.1 | 102.5 | 91.5 | 87.9 | 112.4 | 102.5 | 129.2 |
| C1QB | 99 | 120.3 | 95.8 | 92.9 | 84.8 | 95.9 | 96.2 | 110.5 |
| C1QBP | 5013.6 | 6262.5 | 2963.8 | 2605.3 | 1632.6 | 3016.3 | 4039 | 7166.7 |
| C1QC | 87.7 | 98.7 | 97.5 | 95.2 | 89.2 | 94.3 | 93.1 | 100.2 |
| C1QDC1 | 137.3 | 167.3 | 106.2 | 116.2 | 112.5 | 165.2 | 125.3 | 210.6 |
| C1QDC1 | 122.7 | 157.8 | 120.3 | 144.2 | 117.9 | 183.3 | 119.6 | 151 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| C1QDC2 | 100.3 | 90.9 | 107.8 | 100.8 | 99.1 | 97 | 85.1 | 103.1 |
| C1QL1 | 99.2 | 111.7 | 116.3 | 99.6 | 95.3 | 98.3 | 95.1 | 110.5 |
| C1QL2 | 98.5 | 101.4 | 109.2 | 101.4 | 86.6 | 98.1 | 83.8 | 97 |
| C1QL3 | 92.8 | 122.6 | 103.8 | 84.3 | 79.7 | 86.1 | 98.9 | 109.5 |
| C1QL4 | 93.7 | 94.7 | 85 | 79.5 | 87.8 | 103.3 | 88.4 | 111.7 |
| C1QR1 | 3129.7 | 4044.8 | 3011 | 3043.7 | 2127.5 | 3525.5 | 2593.9 | 4005.1 |
| C1QTNF1 | 102.5 | 111.6 | 112 | 107.7 | 110 | 111.1 | 99.1 | 99.4 |
| C1QTNF1 | 74 | 80.2 | 85.5 | 75.8 | 88.6 | 84.4 | 76.9 | 81.5 |
| C1QTNF1 | 82.2 | 102.5 | 86.3 | 76.5 | 75.2 | 80.2 | 83.1 | 93.7 |
| C1QTNF2 | 122.2 | 145.9 | 100.2 | 88.8 | 84.9 | 93.8 | 113.9 | 120.9 |
| C1QTNF3 | 74.4 | 82.5 | 102.7 | 98.1 | 92.7 | 91.8 | 82.1 | 88.6 |
| C1QTNF3 | 85.5 | 112.4 | 91.3 | 90 | 86.8 | 83.7 | 97.9 | 112.2 |
| C1QTNF4 | 94 | 108.3 | 95.5 | 78.9 | 91.2 | 93.2 | 81.9 | 96.6 |
| C1QTNF5 | 116 | 163 | 79.7 | 77.5 | 80.3 | 77.3 | 124.5 | 150.8 |
| C1QTNF6 | 94.8 | 106.8 | 99.6 | 102.5 | 94.4 | 92.1 | 93.3 | 97.4 |
| C1QTNF6 | 91.8 | 107.6 | 99.1 | 96.8 | 97 | 106.6 | 86 | 93.1 |
| C1QTNF6 | 82.4 | 93 | 91.8 | 94.8 | 88.1 | 93.2 | 75.9 | 77.8 |
| C1QTNF7 | 93.5 | 113.1 | 89.4 | 88.2 | 82.4 | 88 | 106.8 | 103.7 |
| C1QTNF8 | 126.5 | 180.2 | 98.8 | 84.1 | 74.2 | 86.2 | 145.1 | 158.8 |
| C1R | 95 | 106.3 | 92.7 | 94.7 | 87.4 | 83.3 | 104.3 | 88.1 |
| C1RL | 200.2 | 194.6 | 153.8 | 214.7 | 181.6 | 198.7 | 137.7 | 156.8 |
| C1S | 82.1 | 79.3 | 104.5 | 84.8 | 102.9 | 91.8 | 86.3 | 81.5 |
| C1S | 95.5 | 114.4 | 96.9 | 86.6 | 92.3 | 100.2 | 92.1 | 104.7 |
| C2 | 166.9 | 192.5 | 112.5 | 201.4 | 194.9 | 233 | 149.4 | 184.6 |
| C20ORF10 | 88.3 | 99.6 | 82.1 | 88.1 | 79 | 93.8 | 97.6 | 98.4 |
| C20ORF100 | 1687.4 | 2237.2 | 1444.4 | 2377.3 | 1936.4 | 2016.1 | 1598.7 | 1536.3 |
| C20ORF102 | 85.8 | 101.9 | 99.2 | 91.6 | 87.1 | 84.9 | 87.5 | 95.5 |
| C20ORF103 | 2298.2 | 3066.3 | 1443.4 | 1534.2 | 1253.6 | 1895.9 | 1496.7 | 1868.4 |
| C20ORF106 | 93.2 | 105.3 | 106.9 | 110.7 | 116.9 | 108.7 | 111.6 | 136.5 |
| C20ORF107 | 117.9 | 121.3 | 106.3 | 115.2 | 108.5 | 115.5 | 107.2 | 144 |
| C20ORF108 | 170.4 | 228.2 | 135.7 | 187.5 | 159.4 | 243.2 | 174.9 | 430.9 |
| C20ORF11 | 1550.2 | 1862.6 | 1846.1 | 2170.3 | 1654.9 | 2061.8 | 1301.5 | 2103.6 |
| C20ORF111 | 1459.9 | 1713 | 895 | 713.2 | 627 | 1103.5 | 1360.3 | 2350.5 |
| C20ORF112 | 106.9 | 123.8 | 80.9 | 77 | 69.5 | 85.4 | 97.7 | 123.3 |
| C20ORF114 | 95.1 | 105.8 | 94.4 | 95.1 | 87 | 99.5 | 91.1 | 92 |
| C20ORF116 | 825.7 | 1001 | 542.4 | 420.4 | 369.7 | 481.5 | 868.8 | 1241.6 |
| C20ORF117 | 246 | 382.6 | 352.2 | 445.8 | 382.4 | 552.8 | 307.3 | 492.9 |
| C20ORF117 | 75.6 | 105.5 | 81.6 | 88.8 | 81.2 | 85.2 | 89.5 | 98.9 |
| C20ORF118 | 139.7 | 163.8 | 98.6 | 94.8 | 95.4 | 98.8 | 133.4 | 142.2 |
| C20ORF12 | 277 | 393.4 | 217.2 | 221 | 249.4 | 273.5 | 202.1 | 252.5 |
| C20ORF121 | 399.5 | 536.2 | 478.6 | 527.5 | 390.7 | 610.8 | 362.5 | 553 |
| C20ORF121 | 360.3 | 483.9 | 222.6 | 245.6 | 194.6 | 253.7 | 290.8 | 411.9 |
| C20ORF128 | 112 | 128.6 | 96 | 90 | 91.9 | 93.9 | 115.9 | 134.7 |
| C20ORF129 | 616.5 | 919.1 | 528.4 | 375.9 | 284.1 | 410.8 | 561.8 | 1009.3 |
| C20ORF132 | 95.4 | 114.2 | 102 | 100.7 | 86.1 | 96.5 | 93.9 | 97.3 |
| C20ORF132 | 102.9 | 119.8 | 120.4 | 118.2 | 103.9 | 113.2 | 102.7 | 117.5 |
| C20ORF132 | 112.6 | 136.5 | 96.7 | 99 | 90 | 121.6 | 114.1 | 109.2 |
| C20ORF133 | 90.9 | 103 | 84.4 | 93.6 | 87.7 | 84.2 | 82.1 | 99.4 |
| C20ORF133 | 98.7 | 105.4 | 86.1 | 79.3 | 89.5 | 84.6 | 92.6 | 108.2 |
| C20ORF134 | 102.6 | 133.9 | 113.7 | 89.1 | 84.3 | 91.3 | 111.5 | 114.2 |

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|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| C20ORF13E | 90.5 | 86.4 | 87.5 | 82.7 | 89.2 | 81.8 | 92 | 94.1 |
| C20ORF14 | 375.6 | 534.8 | 136.8 | 177.6 | 132.3 | 117.1 | 258.1 | 339.4 |
| C20ORF141 | 89.8 | 96.4 | 115.6 | 112.2 | 108.1 | 98.5 | 93.8 | 91.4 |
| C20ORF142 | 109.1 | 110.4 | 88 | 90.1 | 83.6 | 93.9 | 108.1 | 107 |
| C20ORF144 | 80 | 96.2 | 91.7 | 75.2 | 85.9 | 77.1 | 93.5 | 94 |
| C20ORF14E | 284.9 | 399.4 | 291.8 | 216.4 | 161.6 | 140.7 | 246.6 | 338.7 |
| C20ORF151 | 99.6 | 113.6 | 79 | 79.8 | 81.9 | 74.4 | 97.2 | 134.9 |
| C20ORF152 | 75.8 | 99.2 | 89.2 | 84.8 | 77.7 | 81.7 | 80.8 | 90.1 |
| C20ORF15E | 1969.6 | 2678.1 | 1109.2 | 959.4 | 709.6 | 1245.8 | 1656.6 | 2143.8 |
| C20ORF16C | 90.5 | 99.4 | 105.1 | 93.6 | 85.1 | 90.9 | 96.6 | 99.6 |
| C20ORF161 | 94.1 | 117.1 | 96.9 | 97.7 | 84.2 | 86.1 | 95.6 | 111.9 |
| C20ORF161 | 127.3 | 143.2 | 108.9 | 103.9 | 99.4 | 109.1 | 124.9 | 171.6 |
| C20ORF16E | 90.3 | 107.3 | 91.8 | 86.2 | 81 | 89 | 92.5 | 94.5 |
| C20ORF16E | 86.8 | 105.2 | 87.3 | 85 | 79.5 | 84 | 98.8 | 106.9 |
| C20ORF172 | 793.1 | 1083.5 | 381.5 | 350.3 | 318.8 | 459.8 | 692.1 | 1081.1 |
| C20ORF174 | 80.5 | 79.6 | 87.1 | 81.1 | 82.3 | 78.5 | 78.5 | 80.8 |
| C20ORF174 | 80.6 | 88.7 | 96.1 | 90.1 | 92 | 82.3 | 80.4 | 80.9 |
| C20ORF177 | 991.6 | 1502.7 | 1175.5 | 1269 | 1030.9 | 1151.4 | 1179 | 1986 |
| C20ORF17E | 89.1 | 103.2 | 104.7 | 108.4 | 85.9 | 97.5 | 95.6 | 95.9 |
| C20ORF17E | 72.5 | 84.1 | 91.6 | 81.6 | 87.6 | 81.7 | 80.7 | 83.3 |
| C20ORF18E | 87.4 | 95.1 | 93.2 | 84 | 86.5 | 82.9 | 89.7 | 101 |
| C20ORF18E | 81.2 | 87.4 | 88.2 | 84.8 | 77.2 | 81.9 | 82.1 | 78.2 |
| C20ORF19 | 166.9 | 191 | 100.8 | 96.1 | 89.2 | 110.9 | 157 | 181.9 |
| C20ORF191 | 444.2 | 607.9 | 157.6 | 161.9 | 178.4 | 213.1 | 437.4 | 534.2 |
| C20ORF19E | 86.7 | 93 | 99.1 | 91.6 | 87.8 | 90.6 | 93.2 | 102.8 |
| C20ORF20 | 2603.1 | 3545.9 | 1912.9 | 1726.1 | 1674.3 | 2109 | 2447.6 | 2754 |
| C20ORF22 | 398.9 | 498.5 | 240.6 | 161.7 | 150.5 | 188.1 | 444.9 | 700.9 |
| C20ORF23 | 87.9 | 99.3 | 103.7 | 100.9 | 98.3 | 120.3 | 91.2 | 116 |
| C20ORF24 | 12982.2 | 15729.9 | 10954 | 9709 | 8220.2 | 11558.5 | 16302.6 | 22994.6 |
| C20ORF24 | 12806.3 | 15498 | 12429.8 | 12788.7 | 10038.6 | 14568 | 15828.9 | 22544.9 |
| C20ORF24 | 6624.3 | 8980.8 | 3667 | 3849.7 | 2884 | 4712.6 | 8334.6 | 10876 |
| C20ORF26 | 86.2 | 94.3 | 92 | 96.4 | 88.4 | 82.3 | 86.5 | 82.3 |
| C20ORF27 | 1728.9 | 2284.3 | 810 | 630.4 | 549.5 | 522.6 | 1389.6 | 1135.1 |
| C20ORF28 | 125.5 | 164.1 | 102.8 | 92.5 | 78.1 | 96 | 128.1 | 145.4 |
| C20ORF29 | 152.4 | 179.1 | 171.2 | 142.2 | 122.4 | 137.8 | 138 | 232.9 |
| C20ORF3 | 488.6 | 752.5 | 381.1 | 353 | 242.5 | 360.4 | 509 | 857.6 |
| C20ORF30 | 2365.7 | 2873.1 | 1341.1 | 1829.9 | 1188.4 | 1762.6 | 1819.5 | 3474.9 |
| C20ORF30 | 2467.6 | 3267.7 | 2261.6 | 2834.7 | 2138.3 | 3081.1 | 2145.3 | 4043.6 |
| C20ORF31 | 582.7 | 836.1 | 333.6 | 277.6 | 233.4 | 281.3 | 604.3 | 795.2 |
| C20ORF32 | 80.7 | 89.1 | 85.7 | 87.2 | 81.8 | 81.5 | 94.2 | 87 |
| C20ORF35 | 276.7 | 388.5 | 265.5 | 317 | 237.5 | 413.3 | 236.5 | 374.2 |
| C20ORF39 | 86.2 | 87.2 | 103.4 | 101.9 | 96.7 | 96.3 | 85.8 | 80.9 |
| C20ORF4 | 690.6 | 911 | 828.6 | 766.9 | 582.2 | 946.7 | 649.8 | 1442.2 |
| C20ORF42 | 182.3 | 201.8 | 159.6 | 125.3 | 105.1 | 139.8 | 122.7 | 170.8 |
| C20ORF43 | 3850.7 | 5322.4 | 3173.2 | 4141 | 3279.6 | 4869.3 | 3761.2 | 4668.7 |
| C20ORF44 | 399.8 | 622.9 | 292.1 | 231.1 | 173.2 | 276 | 357.5 | 599.2 |
| C20ORF44 | 232.6 | 303.5 | 126.6 | 125.6 | 97.7 | 109.6 | 213 | 324.5 |
| C20ORF44 | 1401.8 | 1728.4 | 501.5 | 523.7 | 352.3 | 584.2 | 1367 | 1725.6 |
| C20ORF45 | 1169.6 | 1613.6 | 784.5 | 780.6 | 621.6 | 1061.4 | 828 | 1009.9 |
| C20ORF46 | 96.5 | 95 | 101.2 | 86.2 | 91.5 | 89.6 | 84.5 | 89.2 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|---------|
| C20ORF52 | 7055.2 | 6800.7 | 7644.2 | 6704.9 | 5244.8 | 6217.5 | 7292.3 | 8780.4 |
| C20ORF54 | 101.1 | 97.3 | 96.5 | 86.8 | 83.9 | 82.8 | 96.7 | 101 |
| C20ORF55 | 177.8 | 194.9 | 143.6 | 105.9 | 115.3 | 113.4 | 167.9 | 278.4 |
| C20ORF55 | 91.6 | 112.4 | 80.5 | 79.4 | 78.2 | 86.7 | 82.5 | 113.9 |
| C20ORF55 | 265.3 | 307.6 | 214.1 | 177.9 | 152.5 | 188 | 225.5 | 282.8 |
| C20ORF58 | 87.1 | 94.8 | 96.1 | 88.6 | 80.8 | 93.9 | 93.7 | 89.4 |
| C20ORF59 | 187.6 | 209.4 | 190.5 | 169 | 163.6 | 238.1 | 170.5 | 238.5 |
| C20ORF6 | 92.3 | 106.7 | 94.6 | 94.3 | 81.9 | 88.3 | 87.6 | 96.1 |
| C20ORF67 | 114.1 | 147.6 | 152.9 | 142.6 | 141.4 | 177.5 | 115.5 | 157.9 |
| C20ORF7 | 94.4 | 95.6 | 105.3 | 99 | 88.5 | 97.6 | 87.4 | 99 |
| C20ORF7 | 571.8 | 711.3 | 327.1 | 253.2 | 204.4 | 341.8 | 455.3 | 674.6 |
| C20ORF7 | 271.6 | 342 | 157.4 | 143.8 | 120.6 | 148.3 | 229.6 | 381.1 |
| C20ORF70 | 84.2 | 104.9 | 104.4 | 86 | 81.3 | 89.6 | 89.4 | 101.5 |
| C20ORF71 | 93.6 | 109.2 | 86.1 | 87.2 | 78.8 | 91.5 | 94.4 | 100.9 |
| C20ORF71 | 84.8 | 91.9 | 111.6 | 105 | 92.4 | 100.5 | 93.8 | 84.4 |
| C20ORF71 | 78 | 87.9 | 87.7 | 86.8 | 83.8 | 85.2 | 85.1 | 86.4 |
| C20ORF72 | 934.1 | 1258.8 | 716 | 701.2 | 655.7 | 908 | 663.3 | 907.8 |
| C20ORF74 | 85.5 | 102.1 | 91.5 | 100.1 | 86.6 | 96.9 | 90.4 | 95.5 |
| C20ORF74 | 134.9 | 146.8 | 86.1 | 77.7 | 75 | 86.1 | 117.3 | 147.1 |
| C20ORF75 | 112.5 | 124.1 | 101.2 | 94 | 86 | 108.8 | 103.1 | 111.7 |
| C20ORF77 | 80.9 | 93.7 | 91.7 | 92.8 | 93.1 | 91.6 | 86.1 | 103 |
| C20ORF79 | 89.9 | 97.5 | 98.7 | 99.6 | 85.2 | 90.2 | 90.1 | 106.8 |
| C20ORF85 | 89.8 | 110.4 | 114.1 | 93.3 | 82.2 | 97.3 | 87 | 101.9 |
| C20ORF86 | 107.6 | 106.2 | 93.2 | 95.1 | 88.1 | 95 | 98.6 | 121.5 |
| C20ORF94 | 166.7 | 196.6 | 139.4 | 159.1 | 144.3 | 110.7 | 184 | 181.9 |
| C20ORF96 | 97.4 | 110.4 | 109.7 | 104.7 | 93.8 | 110.2 | 113.6 | 133.8 |
| C20ORF98 | 283.1 | 365.8 | 327.2 | 297 | 265.8 | 292 | 270.6 | 416.6 |
| C21ORF100 | 83.2 | 97 | 103.5 | 87.1 | 77.9 | 96.7 | 73.7 | 88.1 |
| C21ORF110 | 168.9 | 214.2 | 131.7 | 140.8 | 111.4 | 134.6 | 144.9 | 185.6 |
| C21ORF120 | 78.1 | 91.3 | 86 | 85.2 | 84.3 | 80.3 | 85.5 | 89.5 |
| C21ORF120 | 322.1 | 429.9 | 259.1 | 232.5 | 184.4 | 275.8 | 261.9 | 324.3 |
| C21ORF120 | 77 | 84.3 | 93.9 | 89.6 | 86.7 | 91 | 80.1 | 83.7 |
| C21ORF13 | 91.9 | 106.8 | 93.2 | 96.7 | 90.7 | 96.5 | 96.9 | 97.5 |
| C21ORF2 | 402.6 | 465.5 | 337.9 | 359.9 | 348.5 | 381.9 | 332.3 | 345.3 |
| C21ORF24 | 7767.1 | 6857 | 4102.2 | 6535.8 | 6472.5 | 5356.9 | 7223.2 | 10556.9 |
| C21ORF25 | 138.5 | 238.5 | 172.6 | 147.6 | 132.3 | 152.9 | 183 | 247.2 |
| C21ORF25 | 397.7 | 584.9 | 292.4 | 324.8 | 279.1 | 304.5 | 375.3 | 408.6 |
| C21ORF29 | 87.5 | 88.2 | 92.8 | 80.5 | 82.8 | 87.5 | 85 | 91.8 |
| C21ORF33 | 930.1 | 1083.2 | 495.6 | 550.3 | 420.9 | 501.3 | 673.4 | 761.3 |
| C21ORF33 | 2919.7 | 4082 | 1749.6 | 1773.6 | 1347.4 | 2138.1 | 1953.1 | 2447.7 |
| C21ORF33 | 553.4 | 692.9 | 377.7 | 444.8 | 336.8 | 452.1 | 393.3 | 472.2 |
| C21ORF34 | 105.6 | 140.1 | 95 | 89.2 | 83.3 | 97.9 | 119.2 | 132.8 |
| C21ORF34 | 88.9 | 89.3 | 83.9 | 78.4 | 86.6 | 83.2 | 98 | 91.6 |
| C21ORF34 | 103.5 | 104.3 | 80.6 | 78.3 | 75.9 | 74.1 | 97.7 | 108.1 |
| C21ORF41 | 83.8 | 90.3 | 87 | 86.1 | 82.1 | 92.9 | 82.8 | 89.9 |
| C21ORF45 | 190.9 | 270.7 | 112.1 | 105.4 | 84.3 | 102.4 | 186.3 | 210.5 |
| C21ORF49 | 89.3 | 101.6 | 86 | 80.3 | 75.9 | 86.5 | 90.8 | 103.5 |
| C21ORF51 | 618.6 | 697.2 | 332.2 | 472.5 | 377 | 637.3 | 486.9 | 644.4 |
| C21ORF51 | 259.3 | 328.8 | 187.2 | 202.6 | 172.9 | 329.3 | 232.6 | 263.2 |
| C21ORF55 | 85.6 | 95 | 86.8 | 87 | 82.2 | 85.9 | 83.1 | 84 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| C21ORF55 | 115.4 | 161.7 | 94 | 100.8 | 99.4 | 94.6 | 92.4 | 105.6 |
| C21ORF55 | 95.7 | 98 | 97.7 | 89.9 | 86.6 | 85.6 | 83.3 | 109.2 |
| C21ORF56 | 356 | 505.1 | 207.1 | 189.6 | 174.3 | 160.6 | 313.5 | 437.3 |
| C21ORF57 | 3311.8 | 4095.9 | 2156.2 | 2238.3 | 2170.8 | 2930.6 | 3101.4 | 4149.2 |
| C21ORF57 | 396.1 | 482.8 | 188.8 | 266.8 | 253 | 346 | 352.9 | 512.7 |
| C21ORF57 | 98.7 | 108.8 | 108.3 | 106.8 | 95.1 | 96.6 | 89.8 | 94.1 |
| C21ORF58 | 117.9 | 116.9 | 128.8 | 124.4 | 122.1 | 126.1 | 109.1 | 123.2 |
| C21ORF58 | 121.2 | 135.6 | 86.3 | 77.2 | 79.1 | 78.7 | 116.8 | 120 |
| C21ORF58 | 94 | 104.6 | 115 | 104.7 | 102.9 | 88 | 92.2 | 105.1 |
| C21ORF59 | 88.6 | 87 | 93.5 | 85.1 | 82.5 | 85.6 | 87.9 | 90.3 |
| C21ORF59 | 1236.1 | 1599.5 | 673.1 | 647.5 | 542.4 | 962.8 | 978 | 1152.4 |
| C21ORF6 | 267.5 | 363.5 | 184.7 | 183.7 | 147.9 | 221.4 | 218.7 | 238.6 |
| C21ORF62 | 102.5 | 128.3 | 85.4 | 92.3 | 76.4 | 83.6 | 115.2 | 123.1 |
| C21ORF63 | 123.6 | 136.2 | 111.2 | 94.3 | 91.4 | 93.8 | 121.7 | 146 |
| C21ORF66 | 254.3 | 275.8 | 125.1 | 146.7 | 160.3 | 146.3 | 159.4 | 250.9 |
| C21ORF66 | 179.7 | 206.8 | 131.5 | 135.9 | 126.5 | 148.9 | 133.9 | 177.2 |
| C21ORF66 | 217.8 | 277.3 | 135.8 | 137.9 | 117.6 | 138.8 | 154.5 | 204.4 |
| C21ORF66 | 1218.3 | 1459.2 | 609.8 | 714 | 679.5 | 1222.6 | 922.5 | 1226.5 |
| C21ORF67 | 148.7 | 152.8 | 113.4 | 97 | 86.7 | 96.4 | 116.5 | 141.9 |
| C21ORF69 | 140.7 | 189.5 | 130.6 | 119.2 | 112.1 | 119.3 | 121.8 | 123 |
| C21ORF7 | 151.2 | 167.2 | 108.5 | 103.2 | 102 | 113.8 | 135.2 | 161.8 |
| C21ORF70 | 495.1 | 619.8 | 352 | 321.4 | 268.1 | 342.2 | 476.4 | 515.6 |
| C21ORF87 | 144.1 | 139.2 | 96.4 | 84.6 | 82.3 | 88.4 | 126.9 | 139.2 |
| C21ORF87 | 115.6 | 120.5 | 100 | 92 | 76.7 | 79.2 | 100 | 133.6 |
| C21ORF88 | 118.3 | 118.9 | 99.8 | 89.4 | 82.6 | 87.8 | 110.9 | 121.4 |
| C21ORF90 | 118.8 | 133.2 | 92.4 | 87.5 | 86.6 | 88.1 | 116.7 | 126.5 |
| C21ORF91 | 165.3 | 210.3 | 136.8 | 132 | 123.5 | 151.7 | 146.8 | 203.6 |
| C21ORF94 | 87.2 | 110 | 85.6 | 87 | 91 | 98.9 | 84.4 | 91.4 |
| C21ORF99 | 80.7 | 86.9 | 82 | 78.1 | 74.3 | 73.1 | 81.1 | 91.2 |
| C22ORF13 | 2781.6 | 3275.3 | 2035.9 | 2285.9 | 1717.8 | 2243.4 | 2257.5 | 2396.2 |
| C22ORF15 | 81.3 | 87.4 | 114.5 | 97.3 | 107.5 | 97.8 | 93.2 | 80.5 |
| C22ORF16 | 3061.4 | 3896.9 | 2842.3 | 1826.2 | 1302.7 | 2183.6 | 2127.9 | 3618.2 |
| C22ORF18 | 1127.3 | 1544.2 | 624.3 | 444.8 | 361.3 | 408.1 | 855.9 | 943.9 |
| C22ORF23 | 126.6 | 156.6 | 93.9 | 98.6 | 103.4 | 97.3 | 141.2 | 144.6 |
| C22ORF25 | 230.6 | 251.7 | 275.1 | 274.4 | 261.3 | 301.3 | 186.3 | 292.4 |
| C22ORF5 | 156.6 | 196.6 | 217.1 | 210.4 | 187.7 | 289.9 | 157.9 | 250.3 |
| C22ORF8 | 168.1 | 225.4 | 141.9 | 125.8 | 123.1 | 143.3 | 173.3 | 196.6 |
| C22ORF9 | 147.9 | 179.1 | 111 | 109 | 111.5 | 86.8 | 115 | 158 |
| C22ORF9 | 988.2 | 1233.9 | 769.6 | 1005.4 | 886.9 | 1249.2 | 758.3 | 1157 |
| C22ORF9 | 99.8 | 92 | 91.7 | 94 | 99.1 | 84.3 | 89.7 | 95.5 |
| C2ORF10 | 132.8 | 168.2 | 125.7 | 95.3 | 99.5 | 137.5 | 128 | 163.1 |
| C2ORF11 | 114 | 107.3 | 87 | 82.3 | 75.1 | 87.1 | 97.9 | 105.7 |
| C2ORF12 | 89.9 | 91.8 | 93.6 | 87.1 | 80.9 | 96.8 | 84.4 | 114.2 |
| C2ORF13 | 81.6 | 81.6 | 92.1 | 92.7 | 96.8 | 95.7 | 81.7 | 79.6 |
| C2ORF16 | 96.1 | 104.9 | 98.5 | 100.4 | 109.3 | 88.7 | 97.6 | 105.2 |
| C2ORF17 | 245.9 | 317.2 | 279.4 | 245.7 | 242.3 | 342.3 | 246.1 | 351 |
| C2ORF18 | 307.1 | 499.4 | 263 | 214.8 | 164.4 | 178.4 | 284.3 | 341.8 |
| C2ORF21 | 131.8 | 151.1 | 92 | 90.9 | 87.6 | 79.7 | 127.1 | 142.2 |
| C2ORF24 | 328.4 | 381 | 343 | 266.1 | 225.5 | 316.4 | 285.5 | 600.2 |
| C2ORF25 | 4774.3 | 5111.6 | 3005.3 | 3510.1 | 2131.1 | 3382.3 | 4110.7 | 8986.4 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| C2ORF26 | 251 | 280.5 | 163 | 201.9 | 188.8 | 213.6 | 262.1 | 385.6 |
| C2ORF27 | 88.9 | 100.5 | 84 | 84.5 | 82.6 | 85 | 83.4 | 91.8 |
| C2ORF28 | 6020.4 | 7454 | 4363.4 | 4159.7 | 2760.6 | 3993.1 | 5391.5 | 6918.1 |
| C2ORF28 | 3927.9 | 5290.7 | 1917.9 | 1397.9 | 1331.2 | 1860 | 3175.1 | 4741.5 |
| C2ORF29 | 3622.4 | 4393.5 | 2277.2 | 2055.8 | 1535.4 | 2088.7 | 2803.2 | 3403.7 |
| C2ORF3 | 119.2 | 145 | 104.4 | 104.2 | 77.2 | 101.1 | 111.3 | 135.4 |
| C2ORF30 | 1002.7 | 1215.7 | 706.5 | 767.2 | 579.9 | 1028.8 | 897.4 | 1705.5 |
| C2ORF32 | 139 | 188.2 | 145.6 | 119.7 | 110.9 | 142.3 | 123.1 | 153 |
| C2ORF33 | 823.8 | 937.5 | 214.3 | 246.5 | 178.2 | 228.3 | 782.3 | 1354.5 |
| C2ORF34 | 239.8 | 344.9 | 193.6 | 148.3 | 132.7 | 184 | 230.8 | 292.8 |
| C2ORF4 | 576.8 | 896.7 | 395 | 340.9 | 286.9 | 414.3 | 452.5 | 634.5 |
| C2ORF52 | 88.3 | 99.9 | 103.6 | 93.6 | 95.9 | 101 | 92.1 | 93.1 |
| C2ORF7 | 407.7 | 551.2 | 223.2 | 199.8 | 160.1 | 248.4 | 349.1 | 661.2 |
| C3 | 96.9 | 113.2 | 105.1 | 102.8 | 93.3 | 101.8 | 100.7 | 121.6 |
| C3AR1 | 121.1 | 135.5 | 97.3 | 85.5 | 85.3 | 84.4 | 105.6 | 110.1 |
| C3ORF1 | 235.6 | 293.6 | 197.1 | 216.5 | 184.5 | 211.1 | 182.9 | 226.1 |
| C3ORF10 | 1662 | 2069.9 | 976.2 | 1357.8 | 961.5 | 1289.6 | 1363.1 | 1568.8 |
| C3ORF14 | 2815.4 | 3592.3 | 2088.5 | 1344.7 | 940.7 | 1281.3 | 2434.7 | 3382.3 |
| C3ORF15 | 134 | 161.4 | 103.2 | 94.6 | 85 | 103.8 | 129.8 | 155.1 |
| C3ORF17 | 2762.3 | 3244.2 | 1556 | 1321.2 | 1285.1 | 1750.5 | 2378.1 | 3126.6 |
| C3ORF17 | 166.9 | 188.9 | 97 | 94.4 | 88.7 | 93 | 130.3 | 162.5 |
| C3ORF17 | 118.2 | 171.2 | 122.3 | 147.8 | 104.7 | 124.7 | 118.5 | 149.5 |
| C3ORF18 | 119.9 | 128 | 97.6 | 89.5 | 96.5 | 83.7 | 117 | 126.1 |
| C3ORF19 | 769.3 | 994.8 | 616.2 | 779.2 | 709 | 1080.4 | 574.3 | 817.2 |
| C3ORF20 | 85.4 | 99.5 | 86.3 | 85.2 | 81 | 82.1 | 91.8 | 88.2 |
| C3ORF21 | 1127.1 | 1394.7 | 578 | 562.6 | 378.3 | 421.2 | 692.5 | 702.8 |
| C3ORF22 | 140.1 | 164.9 | 102.3 | 105.8 | 91.6 | 102.6 | 127.2 | 160 |
| C3ORF23 | 358.1 | 494.6 | 154.2 | 126.4 | 102 | 137.6 | 256.1 | 389.3 |
| C3ORF23 | 98.4 | 97.6 | 98.8 | 92.1 | 71.5 | 95.7 | 97 | 90.3 |
| C3ORF23 | 135.7 | 172 | 118.2 | 103.9 | 102.4 | 98.4 | 126.3 | 140.8 |
| C3ORF23 | 171.9 | 240.1 | 160.5 | 181.6 | 145.2 | 214 | 154.8 | 235.3 |
| C3ORF24 | 75.1 | 82.4 | 101.8 | 86 | 89.4 | 82.2 | 77.9 | 84 |
| C3ORF25 | 96.9 | 111.7 | 95 | 102.4 | 86.7 | 104.6 | 99.6 | 87.6 |
| C3ORF26 | 2376.8 | 3238.4 | 1115.9 | 1188.9 | 855.6 | 1323.7 | 1826.4 | 2922.1 |
| C3ORF27 | 91.3 | 104.3 | 95.7 | 92 | 84.8 | 84.5 | 93.7 | 98.9 |
| C3ORF28 | 576 | 687.2 | 352.6 | 286.5 | 225.1 | 317.6 | 532.7 | 715.7 |
| C3ORF29 | 2342.8 | 2844.8 | 1263.8 | 1433.8 | 1378 | 1468.1 | 2107.7 | 1991.6 |
| C3ORF29 | 520.4 | 635.4 | 322.8 | 364.6 | 301.7 | 438.3 | 487.9 | 820.2 |
| C3ORF30 | 91.9 | 101.3 | 88.3 | 77.8 | 82.3 | 87.3 | 90.8 | 102 |
| C3ORF31 | 708.1 | 906.6 | 428.1 | 354.5 | 270.4 | 367.9 | 608 | 788.5 |
| C3ORF32 | 109.5 | 132.7 | 95.8 | 92.9 | 86.6 | 102.1 | 109.1 | 124.7 |
| C3ORF33 | 124.2 | 157.9 | 104.1 | 92.5 | 87.9 | 100.6 | 131 | 119.4 |
| C3ORF34 | 270.3 | 408.5 | 164.7 | 180.9 | 174.4 | 191 | 282.6 | 475 |
| C3ORF34 | 3365.4 | 2992.9 | 2932.3 | 3340 | 3097.1 | 2884.9 | 3355.5 | 5722.7 |
| C3ORF35 | 113.3 | 131.5 | 117.8 | 102.6 | 101 | 106.8 | 117.2 | 138.1 |
| C3ORF35 | 85.7 | 96.3 | 89.3 | 80.8 | 81.5 | 85.7 | 88 | 92.7 |
| C3ORF36 | 99.3 | 119.3 | 96.1 | 90.1 | 85.6 | 91.7 | 100.3 | 121.9 |
| C3ORF37 | 669.5 | 936.8 | 501.1 | 307.2 | 271.3 | 323.1 | 576.7 | 597.6 |
| C3ORF37 | 104.6 | 104.5 | 96.2 | 93 | 85.8 | 88.8 | 81.4 | 108.1 |
| C3ORF38 | 873.6 | 1277.6 | 559.3 | 470.1 | 372.8 | 651.5 | 602.7 | 1043.2 |

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|---------|---------|---------|--------|--------|--------|--------|---------|---------|
| C3ORF39 | 196 | 238.6 | 208.4 | 179.9 | 139.9 | 226.3 | 175.6 | 272.1 |
| C3ORF40 | 242.9 | 311 | 172.1 | 135.2 | 126.6 | 156.9 | 254.6 | 233.6 |
| C3ORF42 | 92.3 | 105.7 | 94.8 | 91.7 | 103.7 | 90.1 | 92.9 | 104.9 |
| C3ORF42 | 84.8 | 98.5 | 103.7 | 99.4 | 94.8 | 97.4 | 94 | 94.8 |
| C3ORF45 | 104.7 | 109.1 | 93.1 | 79 | 80.3 | 82.9 | 100.1 | 110.1 |
| C3ORF48 | 91 | 104.4 | 98.1 | 90.7 | 84.7 | 96.3 | 89.9 | 93.2 |
| C3ORF52 | 87.7 | 94.4 | 89.3 | 92.4 | 89.5 | 87.7 | 94.9 | 85.5 |
| C3ORF54 | 499.1 | 676.1 | 353.2 | 281.9 | 306.2 | 351.8 | 484.4 | 440.5 |
| C3ORF56 | 89.3 | 87 | 87.5 | 79.7 | 86.1 | 79.5 | 80.2 | 89.9 |
| C3ORF57 | 88.1 | 97.7 | 93.5 | 94.8 | 86.8 | 94.1 | 91.8 | 88.7 |
| C3ORF58 | 322 | 385 | 189.4 | 228.7 | 182 | 243 | 286.6 | 610.5 |
| C3ORF59 | 259.3 | 297.1 | 134.4 | 101.1 | 89.8 | 110.7 | 229.2 | 243.5 |
| C3ORF60 | 272.9 | 326.9 | 195.9 | 126.2 | 117.7 | 119.6 | 261.4 | 262.1 |
| C3ORF60 | 110 | 117.2 | 130.8 | 114.4 | 109.5 | 123.1 | 98 | 106.1 |
| C3ORF60 | 102.6 | 122.9 | 84.6 | 82.8 | 77.8 | 84.4 | 106.5 | 106 |
| C3ORF60 | 192.8 | 249.6 | 109.7 | 109.2 | 106 | 102.8 | 173.9 | 194.8 |
| C3ORF60 | 11078.1 | 13395.8 | 8084.7 | 7185.6 | 5514.4 | 5938.3 | 11347.7 | 12406.9 |
| C3ORF62 | 169.7 | 194.7 | 151.2 | 143.6 | 158.8 | 159 | 168 | 404.2 |
| C3ORF63 | 312 | 499.2 | 283.7 | 215.5 | 221.7 | 304.3 | 287.4 | 307.9 |
| C3ORF64 | 308.8 | 358.2 | 156.9 | 171.7 | 159.6 | 217.1 | 300 | 439.2 |
| C3ORF65 | 85.6 | 109 | 92.6 | 102 | 90.3 | 97.6 | 89.5 | 98.7 |
| C3ORF9 | 466.9 | 664.4 | 267.3 | 218.4 | 192.2 | 244 | 382.5 | 763 |
| C3ORF9 | 1614.5 | 2048.6 | 1010.1 | 970.5 | 756.7 | 1017.5 | 1181.2 | 1677.5 |
| C4A | 110.2 | 155 | 97.1 | 78.2 | 73.6 | 87.3 | 100.1 | 130.5 |
| C4BPA | 106.8 | 102.2 | 94.1 | 89.7 | 81.3 | 86 | 98.8 | 107.4 |
| C4BPB | 116.6 | 161.3 | 109.2 | 87.7 | 103.8 | 97.1 | 110.6 | 115.3 |
| C4BPB | 88.4 | 94.5 | 90.3 | 81.7 | 85.3 | 79.5 | 96.9 | 91.4 |
| C4ORF13 | 167.5 | 207.7 | 113.5 | 101.9 | 102.5 | 98.7 | 137.2 | 169.2 |
| C4ORF13 | 354.5 | 506 | 242.7 | 197.5 | 168.1 | 260.3 | 290.7 | 374.6 |
| C4ORF14 | 1070.2 | 1506.7 | 872.3 | 693.2 | 612.3 | 963 | 948.6 | 1466 |
| C4ORF15 | 95.1 | 106.6 | 116.2 | 102.1 | 103.2 | 103.6 | 92.3 | 98.8 |
| C4ORF16 | 99.4 | 108.4 | 98.4 | 87.5 | 87.5 | 93.8 | 96.7 | 141.6 |
| C4ORF17 | 81.8 | 98.6 | 89.1 | 81 | 77.3 | 85.4 | 86.2 | 92.8 |
| C4ORF18 | 89.5 | 108.9 | 96.2 | 102 | 99 | 102.6 | 100.9 | 107.4 |
| C4ORF18 | 90.2 | 100 | 92.2 | 113.4 | 101.8 | 115.2 | 89.2 | 93.6 |
| C4ORF18 | 92.7 | 91.1 | 96.9 | 101.1 | 89.9 | 86.4 | 95 | 102.7 |
| C4ORF28 | 93.1 | 102.1 | 85.6 | 79.5 | 80.7 | 81.7 | 92.9 | 86.1 |
| C4ORF32 | 96.2 | 101.7 | 90.1 | 85.1 | 93 | 99.2 | 90 | 93.1 |
| C4ORF34 | 344.7 | 439.6 | 188.7 | 205.7 | 205.3 | 215.9 | 348.2 | 325.5 |
| C4ORF36 | 97.3 | 109.3 | 114 | 99.1 | 80.7 | 103.7 | 94.2 | 101.1 |
| C4ORF6 | 84 | 97.4 | 88 | 93.9 | 97.7 | 93.3 | 88.3 | 86.1 |
| C4ORF7 | 80.3 | 101.9 | 97.4 | 98.6 | 89.8 | 98 | 82.6 | 89.3 |
| C4ORF8 | 292.8 | 324.3 | 216.8 | 186.8 | 173 | 243.5 | 259 | 381.8 |
| C4ORF9 | 830 | 1131 | 711.7 | 456.1 | 319.5 | 495.3 | 687.8 | 898.7 |
| C5 | 963.7 | 1290.5 | 770.8 | 800.5 | 783.7 | 1111 | 706 | 907.5 |
| C5AR1 | 89.1 | 101 | 91.3 | 110.8 | 96.1 | 107.2 | 93.8 | 123.1 |
| C5ORF13 | 2731.4 | 3222 | 1903.5 | 1790.8 | 1567.2 | 2674.1 | 1704.5 | 2683.3 |
| C5ORF14 | 170.6 | 222.8 | 116.3 | 106.4 | 95.1 | 98.8 | 164 | 175.8 |
| C5ORF15 | 2066 | 2824.8 | 1486.3 | 1944.5 | 1657.3 | 2108.3 | 1760.3 | 1979.2 |
| C5ORF16 | 261.4 | 305.3 | 215.4 | 168.6 | 157.2 | 312.8 | 206.4 | 350.2 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| C5ORF20 | 520.1 | 662.5 | 493.6 | 673.6 | 624.8 | 684.9 | 366.3 | 402.1 |
| C5ORF21 | 897 | 1121 | 571.6 | 715.1 | 556.2 | 823.6 | 761.9 | 1066.3 |
| C5ORF28 | 2219.7 | 2269.9 | 893.3 | 1537.5 | 1574 | 1232.1 | 1909.1 | 2403 |
| C5ORF3 | 173 | 239.1 | 138.6 | 131.3 | 133.8 | 156 | 162.1 | 225.9 |
| C5ORF34 | 140.4 | 145.6 | 110.3 | 102.5 | 100.9 | 119.9 | 125.9 | 169.6 |
| C5ORF36 | 79.1 | 86 | 92.4 | 80.5 | 84.2 | 82.1 | 78.3 | 88.7 |
| C5ORF37 | 592.5 | 849.3 | 436.3 | 436.5 | 398.7 | 557.3 | 551.6 | 749.3 |
| C5ORF4 | 92 | 106.2 | 88.8 | 84.4 | 87.2 | 90.7 | 101 | 95.6 |
| C5ORF4 | 77.2 | 89.8 | 97 | 85.4 | 83.2 | 87.5 | 77 | 80.9 |
| C5ORF4 | 101.5 | 109.7 | 99.1 | 101.5 | 95.5 | 96.1 | 103.5 | 99.2 |
| C5ORF5 | 788.3 | 867.4 | 392.5 | 708.3 | 596.2 | 966.6 | 663.7 | 1278.8 |
| C6 | 82.7 | 107.7 | 102.6 | 91.5 | 88.8 | 94.8 | 97.6 | 96.1 |
| C6ORF1 | 117.4 | 127.4 | 108.5 | 93.1 | 106.5 | 101.8 | 121.1 | 142.8 |
| C6ORF1 | 268 | 317.3 | 176.2 | 117.6 | 129.5 | 115.9 | 271.6 | 381.3 |
| C6ORF1 | 163.3 | 216.5 | 133.6 | 107.9 | 110.6 | 107.6 | 141.7 | 197.9 |
| C6ORF10 | 114.2 | 125.8 | 96.7 | 88.3 | 90.9 | 83.3 | 120.8 | 124.3 |
| C6ORF105 | 98.9 | 109.6 | 92.6 | 85.7 | 82.3 | 92.6 | 101.4 | 109.5 |
| C6ORF106 | 204.6 | 267.1 | 156.6 | 162.6 | 147.4 | 124.1 | 245.7 | 234 |
| C6ORF106 | 204.1 | 278.5 | 208.4 | 216.2 | 185.5 | 276.6 | 209.7 | 263.8 |
| C6ORF107 | 124.5 | 123.1 | 113.7 | 91.4 | 103.4 | 101.8 | 116.3 | 120.4 |
| C6ORF108 | 119.7 | 127.5 | 100 | 92.7 | 80.3 | 101.3 | 118.5 | 139.4 |
| C6ORF108 | 4981.8 | 6737.6 | 4777.7 | 4121.3 | 3195.5 | 5280.8 | 4159.1 | 4852.3 |
| C6ORF111 | 1130 | 931.8 | 952.6 | 915.7 | 842.9 | 1827.8 | 565 | 1156.8 |
| C6ORF113 | 742.3 | 949.2 | 390.8 | 401.3 | 360 | 629.5 | 662.6 | 1197 |
| C6ORF114 | 82.4 | 95.8 | 82.5 | 73.5 | 69.4 | 74.7 | 85.2 | 92.8 |
| C6ORF117 | 162.8 | 206.3 | 163.9 | 456.1 | 401.7 | 475.8 | 155.8 | 188.5 |
| C6ORF118 | 86.9 | 99.8 | 102.7 | 95.6 | 89.4 | 100.9 | 95 | 101.3 |
| C6ORF120 | 217 | 283.6 | 159.1 | 209.8 | 167 | 301.4 | 200.8 | 358.4 |
| C6ORF122 | 89.9 | 92.7 | 97.4 | 90.8 | 88.5 | 92.5 | 88.3 | 87.2 |
| C6ORF125 | 5968.6 | 6814.8 | 4224.9 | 3830.7 | 2877.1 | 4577.6 | 4442.2 | 4889.7 |
| C6ORF128 | 94.6 | 125.9 | 96.6 | 93.6 | 96.6 | 104.7 | 94 | 107.8 |
| C6ORF129 | 1431.8 | 1626.1 | 1075.5 | 754.6 | 609.8 | 906.8 | 1443.3 | 1738.6 |
| C6ORF130 | 1130 | 1537.8 | 893.1 | 958 | 803.7 | 1082.6 | 1093.4 | 1630.6 |
| C6ORF134 | 111.2 | 136 | 94.9 | 81.2 | 82.4 | 93.5 | 100.9 | 116.1 |
| C6ORF134 | 94.6 | 102.3 | 115.5 | 93.4 | 92.5 | 97.9 | 83.7 | 104.2 |
| C6ORF134 | 93.3 | 92.5 | 96.1 | 91.2 | 83.2 | 78.7 | 85.7 | 92.4 |
| C6ORF136 | 509.3 | 565.8 | 210.6 | 179.8 | 146 | 144.2 | 495.1 | 530.2 |
| C6ORF139 | 636.5 | 838.7 | 313.3 | 267.8 | 262.5 | 422.8 | 462.7 | 948.7 |
| C6ORF142 | 90.3 | 97.3 | 90.4 | 87.8 | 78.9 | 86.2 | 97.3 | 94.1 |
| C6ORF143 | 83.3 | 89.2 | 104.8 | 99.7 | 88.3 | 100.9 | 82 | 83.9 |
| C6ORF145 | 127.7 | 128.7 | 82.4 | 83.9 | 73.7 | 79.5 | 122.1 | 166.2 |
| C6ORF146 | 80.2 | 91.7 | 94.6 | 84 | 74.4 | 87 | 80.1 | 78.8 |
| C6ORF148 | 258.9 | 317.9 | 217.9 | 162 | 139.5 | 171.3 | 243.5 | 356.6 |
| C6ORF149 | 239.5 | 296.2 | 146 | 165.8 | 149.7 | 177.9 | 220.6 | 318.9 |
| C6ORF15 | 98.5 | 99.4 | 90 | 82.1 | 78.3 | 81.3 | 88 | 97.8 |
| C6ORF150 | 445.8 | 603.8 | 187.7 | 192.4 | 166.7 | 149 | 339.9 | 477.1 |
| C6ORF151 | 114.4 | 127.1 | 90.4 | 107.3 | 105.3 | 107.6 | 115.9 | 172.4 |
| C6ORF152 | 124.1 | 147.1 | 98.2 | 104.8 | 91.5 | 101.5 | 118 | 142 |
| C6ORF153 | 3266.6 | 4208 | 885.9 | 862.9 | 704.8 | 897 | 2892.6 | 2975.5 |
| C6ORF154 | 104.4 | 113.5 | 84.4 | 79.3 | 82.7 | 82.2 | 101.9 | 121.7 |

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| C6ORF157 | 164.2 | 181.9 | 112.3 | 101 | 97.7 | 111.6 | 142.5 | 259.1 |
| C6ORF159 | 96.7 | 108.9 | 109.9 | 99.2 | 97 | 92.6 | 92.7 | 91 |
| C6ORF162 | 215.6 | 293.1 | 171.8 | 204.8 | 167.2 | 252.6 | 178.6 | 243.9 |
| C6ORF162 | 215.4 | 287.3 | 146.5 | 179 | 165 | 212.4 | 170.5 | 219.1 |
| C6ORF165 | 108.2 | 124.5 | 96.1 | 94.3 | 87.6 | 101.7 | 112 | 122.9 |
| C6ORF165 | 82.2 | 97.2 | 96.6 | 86.9 | 84.3 | 86.5 | 91.2 | 90.3 |
| C6ORF165 | 89.4 | 107.8 | 105.6 | 105.5 | 99.7 | 103.6 | 93.5 | 100.1 |
| C6ORF166 | 1221 | 1497.4 | 1156.4 | 1173.8 | 814.5 | 1394.8 | 1534.4 | 3842.7 |
| C6ORF167 | 321.8 | 484.3 | 159.8 | 141.7 | 130.2 | 163.2 | 292.9 | 499.3 |
| C6ORF168 | 94.9 | 106.9 | 104.9 | 83.4 | 84.8 | 90.2 | 96.4 | 100.3 |
| C6ORF170 | 288.4 | 337.9 | 215.5 | 237.9 | 225.1 | 245.9 | 282.8 | 338.4 |
| C6ORF173 | 2684.3 | 2890.6 | 1229.3 | 1098 | 810.7 | 1169.4 | 2834.7 | 4001.1 |
| C6ORF174 | 83.9 | 84.1 | 109.9 | 104.2 | 99.7 | 101.1 | 79.6 | 80.9 |
| C6ORF182 | 135.6 | 157 | 118.7 | 108.9 | 102 | 106.4 | 130.3 | 170.1 |
| C6ORF188 | 74.8 | 77.1 | 101.4 | 92.9 | 92.5 | 98.1 | 77.6 | 87.6 |
| C6ORF190 | 117.4 | 121.9 | 99.4 | 98.5 | 124.1 | 112 | 117 | 120.7 |
| C6ORF191 | 96.9 | 121.2 | 87 | 92.3 | 80.7 | 85.4 | 99.6 | 111.4 |
| C6ORF192 | 74.4 | 90.2 | 102.3 | 84.8 | 84.4 | 83.9 | 72 | 82.1 |
| C6ORF194 | 82.3 | 85.4 | 94.9 | 76.1 | 77.3 | 77.6 | 82.2 | 86.9 |
| C6ORF195 | 84.8 | 98.3 | 97.5 | 100.3 | 95.3 | 87.7 | 87.7 | 98.6 |
| C6ORF199 | 89.6 | 98 | 91.3 | 87.7 | 78.2 | 93.5 | 87.8 | 100.6 |
| C6ORF201 | 82.2 | 98.6 | 99.2 | 80.1 | 86.1 | 94.8 | 87 | 97.6 |
| C6ORF203 | 283.5 | 337.9 | 136 | 119.2 | 112.8 | 130 | 251.6 | 463.7 |
| C6ORF204 | 120.2 | 138.9 | 96.8 | 103.9 | 103 | 102.8 | 140.6 | 128 |
| C6ORF204 | 150.5 | 185.6 | 99.7 | 114.5 | 91 | 94.7 | 153.9 | 204.4 |
| C6ORF205 | 289.1 | 350.4 | 132.4 | 111.9 | 110.7 | 129.3 | 254 | 430.8 |
| C6ORF205 | 94.4 | 97.7 | 96.5 | 84.6 | 94.9 | 97.6 | 90.8 | 93.4 |
| C6ORF206 | 80 | 88.1 | 86.1 | 85.5 | 84.1 | 91.2 | 69.6 | 85.7 |
| C6ORF208 | 121.1 | 129.5 | 101.7 | 89.5 | 90.5 | 91.8 | 107.4 | 122.6 |
| C6ORF21 | 123.5 | 134.3 | 96.1 | 89.4 | 94.5 | 89.6 | 113.1 | 120.3 |
| C6ORF211 | 187 | 215.5 | 121.3 | 141.9 | 111.2 | 150.2 | 195.2 | 285.1 |
| C6ORF213 | 95.1 | 109.6 | 107.8 | 103 | 89.8 | 93.8 | 95.3 | 96.5 |
| C6ORF25 | 115.1 | 144 | 131 | 118.6 | 101.7 | 109.9 | 112.2 | 126.4 |
| C6ORF25 | 89.6 | 104.6 | 93.7 | 89.7 | 91.2 | 96.5 | 86.4 | 95.2 |
| C6ORF25 | 128.3 | 134.9 | 102.9 | 83.5 | 83.2 | 87.9 | 118.9 | 141.8 |
| C6ORF25 | 94.7 | 108.3 | 89.9 | 85.9 | 85.2 | 87.3 | 102.8 | 109.6 |
| C6ORF26 | 248.6 | 258 | 167.5 | 197.1 | 205.3 | 324.7 | 178.7 | 218.3 |
| C6ORF27 | 96.1 | 113.9 | 100 | 101 | 104.5 | 93.5 | 90.6 | 112.2 |
| C6ORF32 | 102.3 | 109.4 | 94 | 98 | 86.3 | 88.1 | 89.6 | 88.8 |
| C6ORF35 | 119.7 | 128.4 | 90.6 | 100.2 | 79.3 | 94.5 | 121.7 | 140.9 |
| C6ORF47 | 556.5 | 737.6 | 247.8 | 287 | 310.2 | 305.2 | 485.6 | 444.7 |
| C6ORF48 | 152.1 | 191.5 | 123.3 | 102.4 | 100.5 | 110 | 163.7 | 155.1 |
| C6ORF48 | 14402.4 | 17704.9 | 11827.8 | 12646.7 | 10498.1 | 12360.7 | 14481.4 | 18019.1 |
| C6ORF49 | 11879.2 | 14474.7 | 5476.9 | 3566.6 | 3103.7 | 5279.7 | 10349.9 | 11845.6 |
| C6ORF51 | 92.7 | 107.4 | 87.2 | 86.9 | 84 | 82.8 | 97.4 | 108.2 |
| C6ORF55 | 580.6 | 737.2 | 505.3 | 676.8 | 478.4 | 870.2 | 436.5 | 641 |
| C6ORF57 | 912.5 | 1150 | 514.4 | 500.8 | 425 | 417.7 | 768.6 | 1079.3 |
| C6ORF59 | 117.8 | 132.2 | 83.5 | 97.5 | 95.4 | 106.7 | 121.5 | 141.6 |
| C6ORF60 | 171.2 | 222.2 | 179.2 | 175.4 | 174.3 | 239.7 | 177.3 | 197.1 |
| C6ORF62 | 84.8 | 106.1 | 102 | 94.7 | 80.1 | 91.7 | 92.1 | 94.6 |

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| C6ORF64 | 319.3 | 413.6 | 224.3 | 253.3 | 242.9 | 245.5 | 278.5 | 247.1 |
| C6ORF65 | 133.4 | 157.8 | 158.7 | 162.2 | 141.3 | 194.4 | 183.9 | 297.4 |
| C6ORF66 | 597.9 | 608.2 | 209 | 197 | 137.7 | 201.5 | 548.1 | 933.7 |
| C6ORF69 | 926.3 | 1140.9 | 912.1 | 1096.9 | 835.3 | 1171.7 | 928.2 | 1496.3 |
| C6ORF70 | 556.4 | 794.7 | 423.2 | 535.9 | 481.5 | 774.5 | 444 | 721.8 |
| C6ORF71 | 66.2 | 82.6 | 94.3 | 89.3 | 79.8 | 88.1 | 77.5 | 73.2 |
| C6ORF72 | 484 | 677.2 | 167.3 | 126.4 | 118 | 133.7 | 405.2 | 691.1 |
| C6ORF75 | 78.2 | 86.5 | 89.5 | 82.5 | 76 | 81 | 70.6 | 95.3 |
| C6ORF75 | 85.7 | 92.2 | 91.3 | 86.9 | 85.8 | 94.3 | 87.5 | 87.6 |
| C6ORF75 | 953.1 | 1286.3 | 544.7 | 532.4 | 397.1 | 853.5 | 658.3 | 1013.5 |
| C6ORF78 | 87.4 | 93.2 | 103.9 | 91.5 | 87.6 | 93.7 | 93.9 | 100.3 |
| C6ORF79 | 586 | 644.1 | 406.5 | 369.7 | 257.7 | 355.8 | 514.6 | 1010.8 |
| C6ORF81 | 94.6 | 120.2 | 92.7 | 98.6 | 90.4 | 91 | 101.5 | 112.3 |
| C6ORF84 | 231.2 | 247.1 | 187.8 | 183.9 | 183.1 | 294.7 | 177.6 | 243.8 |
| C6ORF85 | 95.8 | 99.5 | 101.2 | 104.8 | 99.3 | 101.8 | 92.3 | 103.3 |
| C6ORF89 | 308.1 | 434.7 | 241.8 | 205.9 | 177.7 | 244.4 | 231.2 | 395.6 |
| C6ORF96 | 420.8 | 497.3 | 217.2 | 224.4 | 171.5 | 244.8 | 353.5 | 590.9 |
| C7 | 96.5 | 110.2 | 79.3 | 73.6 | 68.2 | 83.8 | 95.1 | 106.1 |
| C7ORF10 | 116.9 | 136.3 | 112.9 | 103 | 94.7 | 98.5 | 122.1 | 139.1 |
| C7ORF11 | 243.9 | 249.8 | 149.5 | 173.5 | 120.1 | 150.4 | 234 | 484.7 |
| C7ORF16 | 87.1 | 96.4 | 101.6 | 89.3 | 87.9 | 98.3 | 88.7 | 87.3 |
| C7ORF20 | 546.6 | 696.9 | 439.4 | 369.5 | 365.5 | 443.6 | 484.1 | 626.5 |
| C7ORF20 | 261 | 348.6 | 166 | 168.2 | 154.6 | 145.1 | 210.4 | 247.7 |
| C7ORF21 | 778.5 | 993.5 | 881.8 | 706.3 | 556.8 | 775.9 | 807.9 | 1672 |
| C7ORF24 | 2816.9 | 3298.4 | 1201.1 | 876.3 | 781.8 | 1459.3 | 1849.2 | 2862.2 |
| C7ORF25 | 329.4 | 484.2 | 211.7 | 182.3 | 184.3 | 227.2 | 270.4 | 414.6 |
| C7ORF26 | 572 | 635.8 | 690.7 | 520.8 | 426.8 | 614.9 | 446.5 | 1034.4 |
| C7ORF27 | 1817.8 | 2033.5 | 1013.2 | 810.7 | 628.8 | 837.8 | 1277 | 1004.7 |
| C7ORF28A | 210.8 | 309.7 | 151.1 | 127 | 118.7 | 121.2 | 197.5 | 205.8 |
| C7ORF28B | 1188.1 | 1468.8 | 698.4 | 648.5 | 538.9 | 810.2 | 1118.6 | 1663.3 |
| C7ORF29 | 124.2 | 126.3 | 111.3 | 111.9 | 98.3 | 120 | 116.2 | 120.9 |
| C7ORF30 | 3814.2 | 4874 | 3376.6 | 3061 | 2102.8 | 2638.2 | 3975.6 | 5258 |
| C7ORF31 | 85.6 | 90.3 | 97.8 | 94.9 | 86.2 | 88.4 | 87.2 | 99.2 |
| C7ORF33 | 75.1 | 86.6 | 102.8 | 86.4 | 86.6 | 94.8 | 82.5 | 86.3 |
| C7ORF34 | 81.1 | 97.2 | 85.1 | 87.3 | 81 | 86.3 | 91.8 | 93.6 |
| C7ORF36 | 432.9 | 494.9 | 202.7 | 202.4 | 146.1 | 226.8 | 426.8 | 739.2 |
| C7ORF44 | 2066.3 | 2487.9 | 1229.3 | 1484.3 | 1220.1 | 1696 | 1845.6 | 2153.3 |
| C7ORF9 | 97.9 | 108 | 91.3 | 84.3 | 86.5 | 94.4 | 95.7 | 112.8 |
| C8A | 90.6 | 93.1 | 91.4 | 83.1 | 76.3 | 91.5 | 103.6 | 93.9 |
| C8B | 83.9 | 88.5 | 90.4 | 76.4 | 83 | 91.5 | 89.2 | 94.2 |
| C8G | 125.1 | 139.7 | 105.8 | 90.1 | 90.8 | 100.7 | 122.2 | 127.5 |
| C8ORF1 | 646.3 | 832.6 | 242.4 | 222.1 | 199.1 | 323.2 | 534.7 | 914.9 |
| C8ORF13 | 103.6 | 105.6 | 94.7 | 79.1 | 78.5 | 101.2 | 103.2 | 108.5 |
| C8ORF15 | 87.8 | 121 | 99 | 89.2 | 90 | 94.1 | 96.9 | 96.1 |
| C8ORF22 | 86.7 | 90.2 | 92 | 93.7 | 87.9 | 92.1 | 88.2 | 86.3 |
| C8ORF30A | 93.9 | 131.3 | 87.6 | 92.6 | 85.2 | 84.3 | 108.6 | 138.1 |
| C8ORF31 | 93.7 | 116.9 | 108.9 | 92.2 | 88.6 | 82.1 | 103.1 | 117.2 |
| C8ORF32 | 664.5 | 855.9 | 439.1 | 286.6 | 220.4 | 300.7 | 572.1 | 915.7 |
| C8ORF33 | 1858.6 | 2413.3 | 1070.6 | 880.9 | 596.5 | 837.9 | 1645.1 | 1802.7 |
| C8ORF34 | 115.6 | 125.8 | 144.4 | 125.7 | 125.9 | 117.7 | 116.3 | 103.2 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| C8ORF35 | 2411.1 | 2834.1 | 1376.7 | 1097.3 | 988.4 | 1785 | 1800 | 2647.6 |
| C8ORF36 | 729.5 | 949.8 | 545.7 | 406.9 | 432.2 | 584 | 702.5 | 725.3 |
| C8ORF37 | 3914.2 | 4581.5 | 1629.1 | 2478.5 | 2855.7 | 1743.4 | 3588.3 | 4595.7 |
| C8ORF38 | 913.6 | 1039.9 | 400.1 | 298.1 | 221.4 | 399.6 | 793.3 | 1445 |
| C8ORF4 | 88.1 | 100.6 | 83.9 | 79.8 | 73.2 | 89.9 | 85.5 | 113.1 |
| C8ORF40 | 3694.6 | 4459.8 | 1735.2 | 1362 | 932.9 | 1241 | 3099 | 3507.5 |
| C8ORF41 | 522 | 599.7 | 247.6 | 185.5 | 168.7 | 203 | 450.6 | 592.7 |
| C8ORF42 | 78 | 89.7 | 81.4 | 86.6 | 88.8 | 92.4 | 86.5 | 76.6 |
| C8ORF44 | 145.7 | 165.4 | 132.8 | 130.1 | 132.8 | 115.2 | 127.2 | 149.5 |
| C8ORF45 | 1765.3 | 1776.5 | 515.1 | 691.5 | 838.9 | 666.5 | 1617.3 | 2325.3 |
| C8ORF46 | 78.6 | 78.3 | 102.3 | 104.7 | 83.5 | 88.8 | 79.9 | 86.3 |
| C8ORF47 | 127.7 | 163.9 | 116.6 | 83.6 | 90.3 | 92 | 142.1 | 171.5 |
| C8ORF48 | 111.5 | 134.1 | 98.9 | 89.7 | 91.5 | 92.7 | 118.1 | 121.3 |
| C8ORF49 | 74.4 | 92.5 | 89.4 | 90.4 | 81.7 | 76.9 | 82.8 | 83.8 |
| C8ORF52 | 859.4 | 988.2 | 260.6 | 241.2 | 195.3 | 248.2 | 795 | 1453.6 |
| C8ORF53 | 184.3 | 184.1 | 136.6 | 114.8 | 117 | 124.7 | 189.2 | 308.8 |
| C8ORF55 | 1182.5 | 1627.2 | 643.5 | 461.4 | 377.8 | 418.9 | 914 | 608.5 |
| C8ORF58 | 122.1 | 147.2 | 115.8 | 109.8 | 101.4 | 115.5 | 138.4 | 171.7 |
| C8ORF61 | 101.7 | 106.6 | 115.2 | 113.5 | 103.1 | 115.9 | 102.9 | 148.7 |
| C8ORF70 | 127.1 | 157.1 | 123.6 | 96 | 90.8 | 98.9 | 144 | 167.8 |
| C8ORF72 | 146.6 | 192.9 | 124.2 | 118.7 | 118 | 120.8 | 127.4 | 151.7 |
| C8ORF74 | 78.6 | 84.5 | 102.4 | 80.2 | 88.8 | 88.7 | 79.8 | 82.2 |
| C8ORF76 | 2483.9 | 3006.2 | 1826 | 1430.5 | 1069 | 1579.3 | 2721 | 3188.7 |
| C8ORFK32 | 101.6 | 136.2 | 98.8 | 93.5 | 94.2 | 84.4 | 112.3 | 116.4 |
| C8ORFK36 | 111.1 | 142 | 94.2 | 81.4 | 87.1 | 82.3 | 114.9 | 113.9 |
| C8ORFK36 | 73.2 | 88.9 | 87.8 | 91 | 85.8 | 83.5 | 80.4 | 73.9 |
| C9 | 76.8 | 89.3 | 95.8 | 85.2 | 78.7 | 89.3 | 82.8 | 90 |
| C9ORF100 | 269.4 | 330.6 | 189.9 | 106.7 | 114.5 | 136.9 | 197.3 | 164.8 |
| C9ORF100 | 562.1 | 641.7 | 287.7 | 238.1 | 161.7 | 245.8 | 421.3 | 630.4 |
| C9ORF102 | 256.7 | 288.4 | 232.9 | 263.6 | 234.9 | 321.2 | 226.9 | 304.8 |
| C9ORF103 | 605.7 | 711.8 | 486.4 | 406.3 | 327.5 | 388.1 | 485.1 | 625 |
| C9ORF106 | 113.3 | 118.9 | 113.1 | 106.4 | 106.1 | 118.2 | 92.6 | 116.2 |
| C9ORF100! | 493.8 | 622.5 | 263.3 | 211.6 | 165.5 | 326.2 | 374 | 629.3 |
| C9ORF11 | 77.9 | 84.6 | 105.4 | 93.2 | 87.5 | 84.5 | 80.8 | 84.1 |
| C9ORF111 | 406.3 | 410.7 | 392.3 | 432.5 | 546.5 | 440.2 | 314.4 | 255.3 |
| C9ORF112 | 178.8 | 214.5 | 161.4 | 131 | 118.1 | 133.1 | 162 | 201.2 |
| C9ORF114 | 1181.5 | 1642.3 | 932.6 | 532.2 | 414 | 498.6 | 949.6 | 796.6 |
| C9ORF116 | 396.7 | 518.5 | 275.5 | 156.5 | 149.7 | 155.7 | 321 | 350.6 |
| C9ORF116 | 385.4 | 535.4 | 252.4 | 173.4 | 136.2 | 173.8 | 285.9 | 383.3 |
| C9ORF117 | 83.5 | 120.4 | 75.9 | 85.9 | 80.6 | 74.7 | 106.9 | 106.6 |
| C9ORF121 | 88.2 | 102.5 | 90.3 | 88.9 | 82.9 | 85.2 | 85.9 | 82.8 |
| C9ORF123 | 223.4 | 243.5 | 182.8 | 220.4 | 166.9 | 218.4 | 172.1 | 232.4 |
| C9ORF125 | 238.8 | 291.8 | 193.4 | 142.9 | 113 | 167.5 | 183.9 | 269 |
| C9ORF126 | 102.9 | 116.4 | 100.5 | 86.2 | 84.1 | 98.1 | 95.4 | 122.5 |
| C9ORF127 | 206 | 242.3 | 178.4 | 158.1 | 128.1 | 166.7 | 187.9 | 193.5 |
| C9ORF127 | 121.7 | 134.1 | 89.4 | 75.3 | 77.6 | 85.9 | 119.7 | 163.4 |
| C9ORF128 | 95.7 | 108.1 | 94.3 | 91.4 | 94 | 90.6 | 88.6 | 104.2 |
| C9ORF132 | 122.3 | 121.3 | 100.5 | 92.7 | 85.4 | 96.9 | 124 | 143.9 |
| C9ORF138 | 89.4 | 89 | 90.9 | 96.4 | 97.4 | 86 | 84.3 | 93.9 |
| C9ORF140 | 1056.6 | 1250.7 | 1849.3 | 835.3 | 734.3 | 1265.6 | 979.7 | 2447 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| C9ORF142 | 3833.2 | 4655.8 | 4028.1 | 2075.9 | 1794.7 | 2548.8 | 3145.9 | 4764.1 |
| C9ORF150 | 95.3 | 93.2 | 105.1 | 91.6 | 80.5 | 83.5 | 89.3 | 96.7 |
| C9ORF152 | 98.5 | 111.6 | 81.4 | 82 | 78.4 | 80.9 | 99 | 108.3 |
| C9ORF153 | 83.8 | 93 | 88.3 | 74.9 | 78.8 | 80.3 | 85.6 | 91.2 |
| C9ORF156 | 506.3 | 700.7 | 440.6 | 314.7 | 282.2 | 357.2 | 512.6 | 701.1 |
| C9ORF157 | 83.7 | 90 | 81.5 | 72 | 79.5 | 85.6 | 81.5 | 87.8 |
| C9ORF16 | 205.3 | 249.9 | 146.9 | 128.8 | 113 | 117.6 | 164.5 | 213.3 |
| C9ORF166 | 112.5 | 132.5 | 87 | 88 | 80.7 | 92.3 | 110.3 | 121.1 |
| C9ORF18 | 87.7 | 81.1 | 93 | 89.6 | 81.3 | 83 | 91.4 | 85 |
| C9ORF19 | 2309.7 | 3095.3 | 1765.6 | 1442.7 | 1057.6 | 1473.7 | 1987.6 | 2073.7 |
| C9ORF21 | 427.3 | 522.2 | 241.8 | 175.5 | 165.5 | 281.5 | 406.8 | 608.7 |
| C9ORF23 | 389.2 | 513.8 | 249.3 | 179.4 | 147.1 | 164.8 | 298.4 | 395.1 |
| C9ORF23 | 262.2 | 298.1 | 206.5 | 126.8 | 126.5 | 128.6 | 182.4 | 211.9 |
| C9ORF23 | 1013.1 | 1295.4 | 791.2 | 483.7 | 356.3 | 511.2 | 946 | 1029.4 |
| C9ORF24 | 100.6 | 115.8 | 118.5 | 103.4 | 102.6 | 105.6 | 98.8 | 97 |
| C9ORF24 | 117.9 | 123.9 | 118.5 | 108.8 | 103.4 | 110.1 | 119.2 | 110.8 |
| C9ORF24 | 83.9 | 91.5 | 91.2 | 81.8 | 86.1 | 109.5 | 80.3 | 84.9 |
| C9ORF25 | 127.8 | 117.2 | 114.2 | 118.3 | 114.9 | 119 | 123.4 | 141.9 |
| C9ORF28 | 394.6 | 452.3 | 634.3 | 687.5 | 532.7 | 812.6 | 380.2 | 782 |
| C9ORF3 | 102.9 | 120.6 | 101.5 | 101.3 | 97.4 | 98.1 | 109.4 | 108.8 |
| C9ORF30 | 507.3 | 616.4 | 220.6 | 178.1 | 161.4 | 263.5 | 488.1 | 888.4 |
| C9ORF32 | 535.7 | 655.4 | 293.6 | 194.9 | 183.2 | 273.6 | 461.4 | 527.5 |
| C9ORF36 | 72.9 | 79.2 | 96.7 | 89.2 | 92.3 | 95.5 | 74.7 | 83.5 |
| C9ORF37 | 278.9 | 308.8 | 143.5 | 141.9 | 137.7 | 133.1 | 176.6 | 196.9 |
| C9ORF39 | 257.2 | 336.3 | 222.8 | 231 | 207 | 350.2 | 231.7 | 274.4 |
| C9ORF4 | 86.6 | 105.5 | 93.1 | 81.4 | 82.2 | 90.8 | 82.9 | 94.9 |
| C9ORF40 | 784.3 | 952.2 | 456.1 | 274.9 | 215.9 | 332.5 | 609.1 | 733.6 |
| C9ORF41 | 95.8 | 105.3 | 110.1 | 99.1 | 90.4 | 97.6 | 96.1 | 94.4 |
| C9ORF43 | 127.4 | 152.5 | 95.8 | 82.8 | 74.5 | 88.6 | 121.9 | 144.4 |
| C9ORF45 | 184.6 | 254.3 | 189.3 | 275.3 | 271.5 | 347.9 | 167.8 | 172.6 |
| C9ORF46 | 1909.3 | 2551.9 | 1449.2 | 1631 | 1157.4 | 1838 | 1515.4 | 2645.3 |
| C9ORF47 | 102.4 | 115.9 | 90.8 | 81.7 | 80 | 81.6 | 104.9 | 122.2 |
| C9ORF48 | 161.5 | 194.3 | 166.7 | 137.8 | 123.4 | 205 | 151.5 | 211.9 |
| C9ORF5 | 497.4 | 661.8 | 243.9 | 330.4 | 208 | 295.3 | 595.4 | 1700.8 |
| C9ORF50 | 103.6 | 109.9 | 98.3 | 96.5 | 91.5 | 82.3 | 100.6 | 91 |
| C9ORF52 | 84.5 | 88.8 | 91.7 | 82.8 | 77.2 | 78 | 85.7 | 94.9 |
| C9ORF58 | 111.3 | 110.7 | 96 | 97.6 | 81.3 | 85 | 104.7 | 122.3 |
| C9ORF58 | 102.3 | 102 | 87.5 | 81.2 | 81.1 | 79.3 | 99.6 | 111.2 |
| C9ORF6 | 634.2 | 784.9 | 501.9 | 440.9 | 364.8 | 634.3 | 484.1 | 1031.7 |
| C9ORF61 | 80.8 | 100.3 | 108.4 | 96.8 | 88.6 | 79.6 | 88.3 | 109 |
| C9ORF64 | 326.2 | 471.8 | 237.4 | 232.6 | 201.8 | 309.8 | 274.8 | 412.8 |
| C9ORF66 | 464.4 | 590 | 320.7 | 327.6 | 267.9 | 296.3 | 339.3 | 400.5 |
| C9ORF68 | 91 | 92.3 | 88.5 | 93.4 | 78.3 | 85.2 | 83.6 | 87.2 |
| C9ORF7 | 128.7 | 151.7 | 125 | 123.7 | 123.5 | 156.6 | 122.1 | 146.6 |
| C9ORF71 | 88.6 | 78.9 | 83.5 | 88.2 | 80.3 | 86.3 | 85.3 | 77.8 |
| C9ORF72 | 86.6 | 93.3 | 101.3 | 88.6 | 92.3 | 90.1 | 93.3 | 100.4 |
| C9ORF72 | 74.1 | 88.5 | 84.8 | 81.4 | 82.3 | 87.9 | 79.6 | 87.8 |
| C9ORF72 | 107.1 | 130.3 | 94.8 | 94 | 91.3 | 95.5 | 113 | 126.2 |
| C9ORF74 | 2450.6 | 2949.1 | 1800.8 | 1148.2 | 898.5 | 1245.9 | 2106.3 | 2070 |
| C9ORF75 | 210.9 | 250.2 | 163.6 | 121.9 | 119.4 | 143.3 | 195.6 | 223 |

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|---------|--------|---------|--------|--------|--------|--------|---------|---------|
| C9ORF77 | 444.2 | 597.1 | 215.1 | 118.9 | 110.2 | 133.9 | 338 | 464.9 |
| C9ORF77 | 108.6 | 138.4 | 122.3 | 110.7 | 109.3 | 116 | 110.4 | 129.5 |
| C9ORF77 | 424.5 | 557.1 | 215.1 | 174.3 | 164.7 | 181.5 | 398.3 | 765.4 |
| C9ORF78 | 3827.6 | 4772.3 | 2342.6 | 2320.4 | 1638.7 | 3016.7 | 3114.8 | 4547 |
| C9ORF79 | 107.8 | 110 | 108.5 | 97.8 | 96.4 | 92.5 | 99.8 | 114.5 |
| C9ORF80 | 5620.8 | 6020.8 | 2255.6 | 4356.3 | 4012.5 | 2749.9 | 5292.8 | 5707.7 |
| C9ORF82 | 288.7 | 386 | 195.9 | 188.8 | 137 | 209.5 | 229.9 | 312.5 |
| C9ORF84 | 110.9 | 97.3 | 116.1 | 97.9 | 98.8 | 106.6 | 91.2 | 85.8 |
| C9ORF84 | 77 | 78.5 | 90.2 | 85.4 | 83.6 | 82.2 | 72.5 | 84.3 |
| C9ORF85 | 225.3 | 263.8 | 120.7 | 117.7 | 90.5 | 111.4 | 232.6 | 443.8 |
| C9ORF85 | 127.4 | 151.4 | 88.1 | 93.2 | 79.9 | 87.9 | 146.2 | 174 |
| C9ORF86 | 609.7 | 781.2 | 765.6 | 682.1 | 612.3 | 1159.8 | 562.4 | 952.8 |
| C9ORF88 | 1642.5 | 2265.6 | 1073.1 | 642.8 | 443.7 | 552 | 1498.3 | 1444 |
| C9ORF89 | 553.3 | 697.8 | 463.2 | 300 | 258.5 | 362.9 | 709.1 | 1033.4 |
| C9ORF9 | 113.9 | 142.7 | 108.8 | 101.2 | 102.2 | 96.3 | 104.2 | 106.3 |
| C9ORF90 | 682.3 | 831.9 | 559.2 | 436.8 | 381.5 | 424.2 | 652.2 | 599.8 |
| C9ORF91 | 421.4 | 591 | 376.9 | 254.1 | 222.2 | 260.9 | 405.2 | 419.4 |
| C9ORF93 | 118.5 | 139.4 | 127.4 | 115.9 | 119 | 156.3 | 114.5 | 113.9 |
| C9ORF95 | 223.8 | 226.6 | 112.3 | 127.7 | 116.5 | 130.7 | 206 | 280.7 |
| C9ORF96 | 77.9 | 87.4 | 96.1 | 86 | 88.9 | 89.4 | 86.3 | 102.9 |
| C9ORF97 | 147.9 | 190.2 | 164.8 | 139 | 130.1 | 135.6 | 130.9 | 168.3 |
| C9ORF98 | 112 | 117.3 | 96.1 | 89 | 81.8 | 100.8 | 104.9 | 135.6 |
| CA1 | 84.8 | 98.8 | 88.5 | 101.7 | 88 | 82.7 | 87.7 | 96.5 |
| CA10 | 90.6 | 90.1 | 84.7 | 83.8 | 81.6 | 80.3 | 90 | 102.8 |
| CA11 | 279.8 | 330.5 | 194.5 | 107 | 118.6 | 116.1 | 237.4 | 303.2 |
| CA12 | 92.8 | 99.4 | 97.2 | 81.5 | 83 | 92 | 97.4 | 96.8 |
| CA12 | 79.5 | 85.9 | 83.5 | 79.1 | 64.9 | 79.2 | 76.1 | 89.1 |
| CA13 | 158 | 204.1 | 125.6 | 95 | 100.1 | 98.2 | 132 | 157.7 |
| CA14 | 86.8 | 97.3 | 92.3 | 93.4 | 87.4 | 83.2 | 92.1 | 99.6 |
| CA2 | 17262 | 18585.3 | 8786.3 | 6970.2 | 3838.9 | 6598.2 | 15256.1 | 21638.2 |
| CA3 | 80 | 88.6 | 100.5 | 95.6 | 91.3 | 100.2 | 75.5 | 83.3 |
| CA4 | 102.4 | 124.9 | 116.5 | 107.5 | 100.4 | 105.8 | 108.6 | 96.5 |
| CA5A | 85 | 89.7 | 87.5 | 85.7 | 86.6 | 79.5 | 86.5 | 82.8 |
| CA5B | 142.5 | 165.5 | 135.4 | 118.7 | 100.6 | 128 | 139.8 | 206.8 |
| CA6 | 126.3 | 132.2 | 113.5 | 104 | 107 | 104 | 112.5 | 126.3 |
| CA7 | 102.3 | 125.9 | 99.4 | 82 | 83.2 | 85.2 | 100.6 | 116.8 |
| CA7 | 94 | 96 | 99.4 | 91.6 | 85.5 | 88.4 | 80.2 | 87.2 |
| CA8 | 86.3 | 92.7 | 87 | 95.2 | 88.4 | 92.1 | 85.3 | 101.5 |
| CA9 | 104 | 133.8 | 96.7 | 101 | 92.1 | 90.7 | 111.4 | 126.4 |
| CAB39 | 3791.8 | 4762 | 2715.2 | 3444.5 | 2476.7 | 4157.6 | 3432.7 | 4492.5 |
| CAB39L | 230.2 | 283.1 | 176.8 | 161.7 | 160.9 | 185.6 | 214.7 | 248.7 |
| CAB39L | 73.2 | 88.7 | 100.2 | 84.8 | 75.4 | 85 | 78.5 | 84.6 |
| CAB39L | 143.2 | 174 | 111.4 | 88.4 | 85.9 | 102.2 | 133.4 | 147.7 |
| CABC1 | 1635.6 | 2020.7 | 1243.8 | 1073.4 | 889.8 | 1294.6 | 1581.1 | 2318.7 |
| CABIN1 | 161.4 | 184.3 | 241.2 | 206.2 | 197.9 | 225.8 | 164.2 | 260.4 |
| CABLES1 | 254.5 | 313 | 163.2 | 127.4 | 108.1 | 124.6 | 244.4 | 252.1 |
| CABLES2 | 268.1 | 362.3 | 247.3 | 200.8 | 191 | 204.8 | 262.2 | 344.7 |
| CABP1 | 93.3 | 98.1 | 80.2 | 87.1 | 88.1 | 87.6 | 108.6 | 103.3 |
| CABP1 | 81.2 | 83.9 | 92.4 | 96.3 | 98.5 | 99.5 | 83.3 | 85.1 |
| CABP1 | 80.8 | 88.9 | 92.4 | 82.1 | 77.3 | 96.4 | 84.7 | 86.6 |

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|----------|--------|--------|-------|-------|-------|-------|-------|-------|
| CABP2 | 87.7 | 118.3 | 100.2 | 89.5 | 91.1 | 92.7 | 96.1 | 108.1 |
| CABP2 | 94.8 | 109.1 | 96.1 | 95.3 | 82.9 | 97.3 | 96.4 | 97.1 |
| CABP2 | 100.5 | 136.6 | 96.2 | 85.6 | 91.5 | 96.2 | 101.4 | 115.2 |
| CABP4 | 78.7 | 88.3 | 88.1 | 87.3 | 87.2 | 89 | 74.8 | 85.3 |
| CABP5 | 98.2 | 94.3 | 82 | 81.2 | 84.3 | 85 | 90.6 | 91.6 |
| CABP7 | 144.1 | 154.7 | 102.2 | 103.5 | 97.9 | 88 | 126.3 | 138.9 |
| CABYR | 87.7 | 87.1 | 75.6 | 81.4 | 80.2 | 78.1 | 80.6 | 80.4 |
| CABYR | 107.8 | 116.6 | 104.3 | 89.5 | 87 | 94.5 | 98.6 | 98.1 |
| CACHD1 | 113.7 | 127 | 109.6 | 94.7 | 98.3 | 112.8 | 103 | 133 |
| CACNA1A | 78.4 | 93.2 | 87.8 | 89.4 | 76.9 | 82.1 | 84.5 | 92.6 |
| CACNA1A | 76.4 | 94.2 | 90.4 | 80.2 | 82.4 | 86.7 | 91.8 | 95 |
| CACNA1B | 240.8 | 298 | 141.8 | 144.7 | 129.4 | 159.2 | 282.7 | 323.1 |
| CACNA1C | 107.4 | 127.2 | 91.4 | 86.4 | 81.2 | 83 | 99.8 | 111.2 |
| CACNA1D | 109.6 | 121.9 | 111.6 | 101.6 | 131.3 | 117.1 | 101.7 | 95.7 |
| CACNA1E | 109.5 | 118.2 | 115.2 | 114.6 | 105.7 | 135.1 | 104.4 | 95.9 |
| CACNA1F | 82.2 | 102.6 | 80.2 | 79.1 | 82.7 | 87.2 | 89.8 | 100.1 |
| CACNA1G | 76.6 | 94.4 | 87.5 | 87.1 | 86.6 | 90.3 | 88.9 | 90.1 |
| CACNA1G | 77.1 | 87 | 99.6 | 91.1 | 90 | 91.6 | 77.8 | 78.1 |
| CACNA1G | 89.1 | 93.5 | 97.7 | 91.7 | 79.6 | 86.2 | 84.2 | 97.8 |
| CACNA1G | 91.6 | 101.1 | 85.1 | 91.1 | 82.2 | 83.8 | 95.5 | 91.6 |
| CACNA1H | 102.4 | 103.8 | 109.7 | 97.7 | 101.5 | 104.3 | 87.6 | 91.1 |
| CACNA1H | 79.2 | 78.4 | 97 | 92.4 | 83.8 | 89.2 | 75 | 77.3 |
| CACNA1I | 81.8 | 95.7 | 93.6 | 85.2 | 79.5 | 89.6 | 81.7 | 82.5 |
| CACNA1I | 86.2 | 90.8 | 94.3 | 82.9 | 83.8 | 80.1 | 87.1 | 91.1 |
| CACNA1S | 90.4 | 109 | 84.4 | 75.9 | 74.9 | 85.2 | 99.5 | 108.6 |
| CACNA2D1 | 97.6 | 100.1 | 87.9 | 92.2 | 88.2 | 92.8 | 86.6 | 87.4 |
| CACNA2D2 | 138.4 | 185.7 | 100 | 103.2 | 98.8 | 96.1 | 135.5 | 148.6 |
| CACNA2D2 | 94.6 | 130.4 | 108.2 | 97.3 | 91.1 | 103.3 | 93.5 | 101.5 |
| CACNA2D3 | 1124.1 | 1436.3 | 527.7 | 637.5 | 506.9 | 733.5 | 656.2 | 667.8 |
| CACNA2D4 | 124 | 151.9 | 111 | 98.2 | 93.6 | 106.2 | 117.6 | 117.6 |
| CACNA2D4 | 411.1 | 496.8 | 277.1 | 204.7 | 187.6 | 260.2 | 347 | 511.1 |
| CACNB1 | 96.1 | 111.1 | 96.7 | 100.3 | 93 | 83.3 | 111.9 | 114.1 |
| CACNB1 | 96 | 102.2 | 96.8 | 87 | 83.6 | 101.9 | 90.7 | 93.3 |
| CACNB1 | 75.9 | 74.5 | 86.6 | 89.2 | 76.4 | 85.1 | 66.8 | 77.8 |
| CACNB1 | 79 | 81.1 | 100.4 | 91.7 | 92.2 | 82.2 | 86.8 | 91 |
| CACNB2 | 76.6 | 96.2 | 100.7 | 91.3 | 92.4 | 85.1 | 82.9 | 80.2 |
| CACNB2 | 98.1 | 105.7 | 82.9 | 95.6 | 78.4 | 80.6 | 93.9 | 113.4 |
| CACNB2 | 95 | 113.1 | 88.8 | 87.5 | 79.6 | 78.5 | 97.4 | 104.7 |
| CACNB2 | 80 | 92.2 | 97 | 90 | 83.2 | 93.9 | 84.1 | 96 |
| CACNB2 | 68.2 | 87.6 | 85.9 | 79.4 | 75.7 | 81.8 | 76.5 | 81.5 |
| CACNB3 | 198.4 | 218.5 | 192.7 | 161.4 | 154.6 | 178.3 | 136.5 | 126.5 |
| CACNB4 | 122.8 | 141.1 | 105.9 | 93.9 | 98.8 | 107.1 | 123.9 | 149.1 |
| CACNB4 | 89 | 108.9 | 92.4 | 71.5 | 78.9 | 80.6 | 80.9 | 87.9 |
| CACNB4 | 90.6 | 102.1 | 88.6 | 81.4 | 87.2 | 87.4 | 85.6 | 93.4 |
| CACNG1 | 83.9 | 95.1 | 92.5 | 81.1 | 81 | 87.4 | 85 | 90.6 |
| CACNG2 | 78 | 88.4 | 99.1 | 83.4 | 90.3 | 76.7 | 87.4 | 86.7 |
| CACNG3 | 106.7 | 111.5 | 98.5 | 88.3 | 91 | 98.7 | 119 | 108 |
| CACNG4 | 115.8 | 142.6 | 94 | 101 | 99 | 98.3 | 105.7 | 116.7 |
| CACNG5 | 101.7 | 107.6 | 91.2 | 82.9 | 88.1 | 85.1 | 100.3 | 110.2 |
| CACNG5 | 99.5 | 130 | 103.4 | 92.3 | 85.6 | 93.5 | 103.6 | 115.8 |

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|----------|---------|---------|--------|--------|--------|--------|---------|---------|
| CACNG5 | 91.3 | 113.9 | 87.8 | 86.3 | 74.7 | 74.5 | 102.3 | 95.3 |
| CACNG6 | 90.3 | 95.8 | 91 | 87 | 81.3 | 87.7 | 95 | 88.8 |
| CACNG6 | 83.6 | 94.3 | 93.8 | 81.2 | 87.4 | 93.4 | 83.4 | 81.8 |
| CACNG6 | 112.3 | 133.3 | 95.7 | 81.4 | 82 | 84 | 104 | 127 |
| CACNG7 | 80.9 | 91.2 | 85.1 | 86.2 | 77.3 | 79.2 | 79.9 | 77.1 |
| CACNG8 | 112.7 | 135 | 118.2 | 104.7 | 97.7 | 104.4 | 116.8 | 116.2 |
| CACYBP | 3103.5 | 3666.7 | 1857.8 | 1115.2 | 1047.5 | 1556.8 | 2272.5 | 2546.6 |
| CACYBP | 529.7 | 713.6 | 231.5 | 209.4 | 184.8 | 225.5 | 504 | 696.1 |
| CACYBP | 96.3 | 102.6 | 80 | 84.1 | 78.7 | 73.9 | 101 | 113.4 |
| CAD | 210.1 | 241.2 | 278 | 292.5 | 196.5 | 346.2 | 165.8 | 219.5 |
| CADPS | 78.6 | 90 | 89.3 | 87.6 | 90.4 | 83.6 | 88.8 | 82.6 |
| CADPS | 109.5 | 115.9 | 107.1 | 95.6 | 93.6 | 105.4 | 94.4 | 124.5 |
| CADPS | 78.1 | 89.2 | 90.8 | 70.2 | 78.2 | 79.6 | 93.5 | 91.6 |
| CADPS2 | 67.8 | 88.7 | 91.2 | 91.8 | 82.5 | 95.4 | 81.1 | 86.8 |
| CADPS2 | 120.1 | 167.5 | 133.2 | 100.2 | 88.8 | 106.2 | 122.3 | 129.3 |
| CAGE1 | 103.2 | 120.5 | 116.5 | 118.3 | 104.5 | 110.7 | 111.6 | 117 |
| CALB1 | 78.7 | 98.7 | 94.9 | 95.3 | 89.2 | 88.1 | 89.5 | 102.3 |
| CALB2 | 106.7 | 130.5 | 129.4 | 106 | 111.7 | 97.9 | 113.4 | 136 |
| CALB2 | 83 | 86.3 | 92.9 | 88.8 | 77 | 79.9 | 82.4 | 87.5 |
| CALCA | 96.6 | 102.2 | 84.8 | 87.2 | 86 | 81.2 | 98.4 | 104.9 |
| CALCA | 98 | 107.3 | 97.3 | 102.2 | 87 | 91.6 | 93.4 | 102.5 |
| CALCA | 73.6 | 93.1 | 79.5 | 76.1 | 86.7 | 79.6 | 75.9 | 85.9 |
| CALCB | 82.9 | 102.5 | 106.6 | 95.7 | 83.3 | 92.5 | 93.2 | 87.4 |
| CALCOCO1 | 101.9 | 124.9 | 104.7 | 103.1 | 109.1 | 126.6 | 100.4 | 107.1 |
| CALCOCO2 | 261.7 | 342.8 | 174.1 | 231.9 | 186.1 | 216.6 | 273.1 | 307.2 |
| CALCR | 101.6 | 109.7 | 92.8 | 95.9 | 80.6 | 86.1 | 98.8 | 110.7 |
| CALCRL | 85.7 | 81.9 | 82.1 | 80.8 | 75.1 | 84.3 | 87.1 | 94.9 |
| CALD1 | 122.1 | 153.1 | 88.4 | 92.4 | 86.3 | 94.7 | 124.3 | 140.7 |
| CALM1 | 1539.5 | 2028.2 | 1543 | 1340.3 | 997.8 | 1756.4 | 1253.1 | 2407.3 |
| CALM2 | 14024.8 | 16461.9 | 7145.4 | 7967.3 | 5629.2 | 7235.2 | 13730.5 | 17642.2 |
| CALM3 | 11063.9 | 13497.1 | 7042.3 | 5405.1 | 4433.7 | 5071.9 | 9649.1 | 9005.2 |
| CALML3 | 94 | 98.1 | 119.4 | 103.1 | 96.2 | 97.5 | 94.2 | 94.7 |
| CALML4 | 93.5 | 127.1 | 100.1 | 87.2 | 80.3 | 89.4 | 91.1 | 97.6 |
| CALML4 | 168.6 | 160.4 | 118.6 | 107.9 | 112.8 | 127 | 173.4 | 179.4 |
| CALML4 | 1596 | 1684.8 | 757.6 | 700.2 | 651.2 | 847 | 1592.6 | 1428.8 |
| CALML4 | 418.5 | 551.4 | 293.2 | 408.7 | 347.1 | 560.2 | 348.9 | 458.3 |
| CALML5 | 143 | 171.5 | 98.2 | 89.4 | 86.1 | 89.6 | 118.6 | 154.6 |
| CALML6 | 92.9 | 98.1 | 92.1 | 85.3 | 94.4 | 91.1 | 83 | 92 |
| CALN1 | 131.1 | 165 | 91.6 | 92.5 | 89.9 | 89.5 | 138.1 | 138.2 |
| CALN1 | 265.5 | 385.2 | 196.8 | 182.1 | 150.8 | 205.4 | 279.8 | 335.8 |
| CALN1 | 85.5 | 82.3 | 110.5 | 116.8 | 113.4 | 110.8 | 78.7 | 90.8 |
| CALR | 1692.6 | 2023.6 | 1002.6 | 1094.5 | 1018.4 | 1387.4 | 1446.8 | 2148.4 |
| CALR3 | 84.9 | 97.8 | 105.7 | 103.7 | 93.4 | 99.4 | 86.3 | 86.6 |
| CALU | 643.4 | 827.3 | 469.7 | 544 | 359.1 | 753.8 | 555.6 | 932.9 |
| CAMK1 | 780.7 | 938.4 | 789.4 | 991.4 | 691.7 | 1119.2 | 585.2 | 879.5 |
| CAMK1D | 227 | 313.9 | 210.6 | 142.2 | 124 | 131.6 | 196.8 | 238.1 |
| CAMK1D | 73.6 | 85.9 | 76.6 | 85.1 | 75.9 | 82 | 73.9 | 88.2 |
| CAMK1D | 88.8 | 98.1 | 93.1 | 79.4 | 88.7 | 88.1 | 86.9 | 87.6 |
| CAMK1G | 107.8 | 136.1 | 96.1 | 94.2 | 87.1 | 98.5 | 105.8 | 131.5 |
| CAMK2A | 89.7 | 107.6 | 89.3 | 84.7 | 82.9 | 86 | 88.9 | 105.9 |

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|----------|---------|---------|---------|--------|---------|---------|---------|---------|
| CAMK2B | 103.8 | 121.6 | 99.4 | 90.4 | 90.7 | 102.8 | 102.4 | 134 |
| CAMK2B | 147.2 | 170.8 | 194 | 191.4 | 171.8 | 170.2 | 134.5 | 213 |
| CAMK2B | 133.8 | 134.3 | 125.2 | 123.3 | 95.8 | 115.2 | 120.6 | 125 |
| CAMK2B | 108.1 | 136.9 | 98.9 | 83.1 | 84.4 | 80.9 | 107.8 | 123.1 |
| CAMK2D | 310.8 | 399.1 | 181.6 | 124.2 | 99.6 | 139.1 | 242.8 | 308.2 |
| CAMK2D | 233.7 | 312.7 | 131.2 | 113.4 | 108.8 | 124.2 | 201.1 | 242.6 |
| CAMK2D | 97.8 | 117.3 | 101.7 | 96.6 | 94.3 | 96.5 | 100 | 114.8 |
| CAMK2D | 86.5 | 98.8 | 83.8 | 77.4 | 75.2 | 81.1 | 84.9 | 95 |
| CAMK2G | 300.7 | 335.3 | 192 | 210 | 207.4 | 262.3 | 260.5 | 326 |
| CAMK2G | 159.1 | 193.4 | 107.8 | 107.3 | 105.5 | 121.4 | 167.2 | 192.5 |
| CAMK2N1 | 94.2 | 103 | 99.1 | 80.2 | 78.6 | 79 | 102.8 | 103.2 |
| CAMK2N2 | 88 | 97.9 | 97.1 | 86.7 | 85 | 88.7 | 83.6 | 99.3 |
| CAMK4 | 84.9 | 92 | 88.2 | 90 | 73.9 | 73.7 | 92.3 | 92.6 |
| CAMKK1 | 99 | 107.3 | 100.2 | 89.4 | 91.6 | 89.4 | 97.8 | 112.5 |
| CAMKK1 | 94.2 | 89.7 | 97.6 | 94.5 | 95.1 | 92.9 | 91.5 | 98.8 |
| CAMKK2 | 133.1 | 135.2 | 118.3 | 99.1 | 95.7 | 98.2 | 109 | 130.7 |
| CAMKK2 | 133.4 | 158.1 | 103.9 | 96.7 | 93.4 | 92 | 124.6 | 157.6 |
| CAMKV | 178.4 | 218.6 | 123.5 | 209.4 | 248.9 | 308.9 | 152.5 | 160.9 |
| CAMP | 231.7 | 236.8 | 198.4 | 353 | 231.9 | 355.2 | 195.4 | 236.8 |
| CAMSAP1 | 517.4 | 762.6 | 475.1 | 574.3 | 529.8 | 741 | 558.3 | 662.5 |
| CAMSAP1L | 385.5 | 444.7 | 245.1 | 151.4 | 143.8 | 211 | 249.1 | 340 |
| CAMTA1 | 186 | 205.8 | 140.7 | 132.5 | 130.2 | 157.4 | 156.8 | 292.4 |
| CAMTA2 | 77.3 | 97.4 | 86.9 | 83.5 | 74.3 | 84 | 69.6 | 87.6 |
| CAND1 | 248.8 | 300.5 | 119.4 | 139 | 108.6 | 147.5 | 226.5 | 345.6 |
| CAND2 | 89.2 | 91.1 | 100.1 | 100.1 | 96.1 | 87.1 | 85 | 85.2 |
| CAND2 | 267.6 | 343.1 | 180.8 | 163.7 | 143.5 | 158 | 228.4 | 244.1 |
| CANT1 | 401.9 | 515 | 516.1 | 601.7 | 449.2 | 845.2 | 358.5 | 811.3 |
| CANX | 4133.5 | 5473.6 | 3568.2 | 5608.7 | 3838.6 | 6194.2 | 4179 | 5906.8 |
| CAP1 | 33785.1 | 33512.5 | 41694.5 | 41598 | 36355.3 | 50115.7 | 31902.8 | 31433.4 |
| CAP2 | 185.3 | 206.6 | 134.3 | 129.8 | 119.9 | 145.5 | 162.9 | 205.5 |
| CAPG | 738.3 | 951.2 | 248.5 | 171 | 147 | 172.7 | 843.1 | 1124.1 |
| CAPN1 | 2262.2 | 2598.1 | 1096.2 | 851.5 | 700.9 | 781.8 | 1707.1 | 1674.9 |
| CAPN10 | 372.4 | 456.5 | 195.3 | 161.8 | 155.1 | 209.7 | 361.1 | 457.8 |
| CAPN10 | 77.6 | 86.4 | 94 | 89 | 92.3 | 88.4 | 85.5 | 78.4 |
| CAPN10 | 88.9 | 105.1 | 93.6 | 91 | 82.3 | 94.6 | 94.3 | 110.9 |
| CAPN10 | 80.1 | 94.6 | 93.2 | 86 | 88 | 90.8 | 86.6 | 106 |
| CAPN11 | 119 | 114.3 | 91.9 | 96.6 | 90.5 | 100.7 | 103.7 | 110.3 |
| CAPN12 | 94.1 | 100.8 | 92.8 | 97.5 | 111.4 | 102.9 | 94.5 | 101 |
| CAPN13 | 105 | 125.9 | 93 | 77.9 | 73.8 | 87.2 | 113.9 | 118 |
| CAPN2 | 433.7 | 560.5 | 214.3 | 259.6 | 203.9 | 277 | 350.6 | 421.3 |
| CAPN3 | 123.5 | 145.5 | 91.6 | 94.6 | 92.9 | 90.2 | 121.6 | 129.8 |
| CAPN3 | 89.3 | 92.2 | 79.8 | 83.9 | 80.4 | 83.6 | 83.5 | 97.9 |
| CAPN3 | 196.3 | 211.2 | 198.2 | 167.7 | 169.9 | 206.1 | 147.3 | 223 |
| CAPN3 | 124.8 | 132.2 | 144.9 | 127.2 | 141.2 | 155.6 | 109.6 | 132.4 |
| CAPN5 | 104.6 | 120.7 | 98.6 | 115.7 | 121.3 | 120.9 | 89.5 | 100.6 |
| CAPN7 | 201.7 | 244.3 | 113.7 | 120.9 | 106.8 | 134.4 | 180.6 | 231.6 |
| CAPN9 | 83.7 | 93.2 | 96.3 | 94.8 | 84.5 | 89.7 | 74.9 | 95.3 |
| CAPN9 | 80.2 | 92.3 | 89.7 | 90.5 | 79.9 | 89.8 | 93.9 | 91.7 |
| CAPNS1 | 2116.2 | 2879.4 | 2458.5 | 1580 | 1203.7 | 1804.3 | 2226.1 | 4097.7 |
| CAPNS1 | 1220.2 | 1620.7 | 656.6 | 433.8 | 369.7 | 455.4 | 1194.5 | 1778.2 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| CAPNS2 | 90.9 | 109.9 | 91.5 | 95.6 | 92.3 | 91.7 | 95.6 | 99.5 |
| CAPS | 100.5 | 125.1 | 96.1 | 82.4 | 84.9 | 101.7 | 114.2 | 120.8 |
| CAPS | 184.7 | 179.8 | 108.6 | 118.2 | 135.5 | 125.7 | 162.7 | 174.2 |
| CAPS2 | 65.8 | 81 | 85 | 87.3 | 81 | 76.4 | 74.2 | 77.7 |
| CAPSL | 116.1 | 123.8 | 96.5 | 82.5 | 97.7 | 87.8 | 99.9 | 134 |
| CAPSL | 101.6 | 107.5 | 91.6 | 87.7 | 90.1 | 84.5 | 97.3 | 98 |
| CAPSL | 86.7 | 96.7 | 95.1 | 96.9 | 88.5 | 99 | 91.5 | 93.8 |
| CAPZA2 | 2832.6 | 3537.2 | 2605.2 | 2840.3 | 2010.6 | 4153.8 | 2464.6 | 4785.6 |
| CAPZA3 | 71.2 | 80.9 | 96.6 | 84.1 | 82.3 | 86.3 | 79.8 | 76.7 |
| CAPZB | 310.1 | 361 | 241.3 | 160.8 | 164.4 | 219.4 | 334.3 | 470.2 |
| CARD10 | 149.1 | 180.4 | 179.1 | 160.9 | 132.9 | 153.7 | 153 | 184.5 |
| CARD11 | 151.2 | 193.6 | 117.3 | 134.2 | 129.2 | 132.3 | 155.3 | 154.4 |
| CARD12 | 139.1 | 172.4 | 136.2 | 153.9 | 141.6 | 163.8 | 116.1 | 154.3 |
| CARD14 | 118.6 | 122.7 | 101.4 | 87.5 | 86.2 | 92.3 | 110.3 | 142 |
| CARD14 | 77.2 | 108.4 | 91.5 | 76 | 78 | 74.3 | 82.1 | 101.7 |
| CARD14 | 87.8 | 95.1 | 96.8 | 90.4 | 81.6 | 88.7 | 78.4 | 108.2 |
| CARD15 | 187.6 | 209.2 | 208.2 | 243.8 | 310.5 | 275.2 | 156.1 | 229.8 |
| CARD6 | 116.4 | 135.8 | 113 | 107.8 | 96.2 | 108.5 | 114.8 | 138.8 |
| CARD8 | 785.9 | 1064.1 | 541.4 | 629.1 | 572.6 | 721.8 | 770.4 | 1005.1 |
| CARD9 | 5060.4 | 5671.5 | 3676.9 | 2976.7 | 2533.8 | 3561 | 3163.3 | 3742.5 |
| CARF | 563.1 | 828.3 | 363.5 | 324.3 | 275.7 | 486.6 | 433.9 | 703.4 |
| CARHSP1 | 3887.9 | 4757.9 | 2358.1 | 1549.6 | 1396.9 | 1401.9 | 3869.7 | 3684.9 |
| CARKL | 392.4 | 470.6 | 405.8 | 487 | 449.5 | 548.3 | 284.2 | 323.4 |
| CARM1 | 2693.6 | 3504 | 2089.6 | 1466.9 | 1231.1 | 1842.1 | 2486.4 | 2778.5 |
| CARS | 171.4 | 233.4 | 123.9 | 107.8 | 100.2 | 118.6 | 177.9 | 308.1 |
| CARS | 824 | 1235.6 | 417.4 | 297.3 | 290.5 | 393.1 | 932.2 | 1216.2 |
| CART | 146.5 | 161.6 | 105.6 | 108.4 | 97.8 | 104.4 | 139.1 | 144.9 |
| CART1 | 151.9 | 194.2 | 124.8 | 177.8 | 169.7 | 276.5 | 125.2 | 185.7 |
| CASC1 | 71.3 | 85 | 96.1 | 89.3 | 82.8 | 91.6 | 86.7 | 87.5 |
| CASC2 | 131 | 151.5 | 115.5 | 111.6 | 102.8 | 121.7 | 140.9 | 149.9 |
| CASC2 | 127.5 | 149.7 | 109.6 | 104.1 | 101.1 | 102.1 | 121.4 | 149.4 |
| CASC3 | 424.1 | 596 | 375.2 | 381.5 | 302.7 | 505.8 | 384.5 | 502.7 |
| CASC4 | 242.1 | 266 | 158.6 | 145.1 | 146.1 | 146.1 | 166.3 | 210.8 |
| CASC4 | 824.2 | 1063.9 | 551.8 | 659.3 | 529.2 | 1119.3 | 769.3 | 1054.4 |
| CASC5 | 127.2 | 149.1 | 97.8 | 103.3 | 90.5 | 99.4 | 114.3 | 114.2 |
| CASC5 | 252.4 | 378.4 | 140.2 | 164.6 | 141.8 | 176.6 | 228.9 | 302.6 |
| CASD1 | 219 | 225.8 | 140.8 | 132.1 | 116.1 | 174.8 | 155.8 | 199.6 |
| CASK | 99.6 | 114.9 | 86.2 | 91.3 | 79.5 | 83.1 | 107.5 | 116.9 |
| CASKIN1 | 105.5 | 102.4 | 94.1 | 91.9 | 88.6 | 88.6 | 93.8 | 103.2 |
| CASKIN2 | 105.3 | 125.8 | 87.4 | 82.2 | 78.6 | 78.5 | 109.3 | 127.9 |
| CASP1 | 1864.5 | 2319.2 | 1056.5 | 931.4 | 611.2 | 1228.3 | 1395.6 | 1772.7 |
| CASP1 | 79.2 | 80.5 | 98.3 | 74.5 | 85.5 | 83.5 | 80.3 | 84.4 |
| CASP1 | 1700.8 | 2187.7 | 674.6 | 675.3 | 446.9 | 776.2 | 1116.2 | 1469 |
| CASP10 | 130.3 | 133.5 | 119.5 | 110.7 | 113.8 | 116.6 | 122.1 | 136 |
| CASP10 | 97.9 | 106.7 | 89.9 | 90.1 | 84.3 | 80.2 | 98.6 | 114.7 |
| CASP12 | 84.1 | 104.6 | 91 | 85.3 | 76.5 | 96.1 | 87.9 | 95.2 |
| CASP14 | 83.1 | 94.5 | 85.9 | 88 | 77.6 | 93.5 | 83.3 | 91.7 |
| CASP2 | 302.8 | 379.3 | 152 | 148.4 | 124.6 | 99.8 | 198.5 | 257.7 |
| CASP2 | 4234.1 | 5424.3 | 3426.8 | 3532.7 | 2851.3 | 3206.8 | 4173.6 | 5633 |
| CASP2 | 482.1 | 616.8 | 423.1 | 413.5 | 338.2 | 464.9 | 415.5 | 696.2 |

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|----------|--------|--------|--------|--------|-------|--------|--------|--------|
| CASP3 | 867.5 | 1260.2 | 630.3 | 523 | 401 | 561.7 | 899.5 | 1291.4 |
| CASP3 | 173.8 | 219.3 | 133.7 | 117.5 | 100.8 | 115.1 | 151.4 | 182.6 |
| CASP4 | 85.5 | 87.9 | 86 | 70.4 | 74.8 | 80.4 | 80.5 | 83.4 |
| CASP4 | 1287.7 | 1720.5 | 454.2 | 459.4 | 327.6 | 433.8 | 1450.3 | 1941.2 |
| CASP4 | 97.6 | 113.9 | 91.7 | 83 | 86.9 | 85 | 104 | 106.6 |
| CASP4 | 146.4 | 177.9 | 117.6 | 103.6 | 98.4 | 102.5 | 125.7 | 156.2 |
| CASP5 | 85.1 | 83.9 | 101.6 | 95 | 88.3 | 93.6 | 82.3 | 81.7 |
| CASP6 | 415.3 | 494.5 | 163.2 | 164.4 | 134.4 | 176.4 | 383 | 554 |
| CASP6 | 197.4 | 233.8 | 111.5 | 98.6 | 106.6 | 119.8 | 208.9 | 230.3 |
| CASP6 | 182.8 | 201.2 | 111 | 118.8 | 93.9 | 88.3 | 189.4 | 271.4 |
| CASP7 | 179.8 | 253.4 | 198.5 | 149.9 | 141.9 | 199 | 185.1 | 235.1 |
| CASP7 | 122.4 | 118.2 | 92.7 | 83.5 | 87.9 | 89.3 | 112.5 | 151.1 |
| CASP7 | 88.8 | 108.2 | 91.1 | 85.8 | 79.9 | 87.7 | 88.2 | 102.8 |
| CASP8 | 152.3 | 166.6 | 97.9 | 98.9 | 77.1 | 100.4 | 125.3 | 180.7 |
| CASP8 | 100.3 | 107.9 | 90.7 | 86 | 82.5 | 87.2 | 95.1 | 102.5 |
| CASP8 | 297.7 | 320.7 | 104.3 | 106.2 | 91.1 | 94.3 | 191.2 | 266.7 |
| CASP8 | 316.7 | 390.5 | 137.1 | 115.6 | 108.5 | 96.8 | 233.6 | 304.9 |
| CASP8AP2 | 99.1 | 101.6 | 95.5 | 86.5 | 80.7 | 80.5 | 95 | 102.4 |
| CASP9 | 170.1 | 198.8 | 110.2 | 110 | 102.6 | 103 | 165.1 | 163.8 |
| CASP9 | 260 | 319.2 | 224.7 | 187.6 | 184.4 | 218.4 | 223.6 | 309.1 |
| CASQ1 | 89.5 | 106 | 93.6 | 89.2 | 84.6 | 83.9 | 90.2 | 92.5 |
| CASQ2 | 80.4 | 96.5 | 95 | 82.5 | 80.8 | 83.6 | 76.7 | 90.5 |
| CASR | 87.6 | 90.8 | 90.6 | 87 | 75.3 | 85.6 | 79.6 | 84.9 |
| CAST | 376.8 | 534.2 | 173.1 | 195.1 | 175.9 | 302.2 | 341.8 | 513.6 |
| CAST | 104.3 | 117.1 | 94.3 | 103.1 | 88.8 | 93.3 | 106.2 | 137.8 |
| CAST | 88 | 93.2 | 91.5 | 99.9 | 86.8 | 83.8 | 85.6 | 94.1 |
| CAST | 445.4 | 518.4 | 235.5 | 348.9 | 270.4 | 577.2 | 428.8 | 580.1 |
| CAST1 | 83.7 | 93.3 | 86.3 | 81.7 | 84.5 | 87.1 | 84.5 | 97.9 |
| CASZ1 | 299.2 | 332.3 | 222.9 | 212.4 | 188.2 | 208 | 216.9 | 267.7 |
| CASZ1 | 94 | 105.8 | 89.8 | 90.4 | 83.4 | 86 | 89.3 | 98.7 |
| CASZ1 | 79.1 | 91.4 | 91.5 | 90.6 | 84.4 | 75.6 | 78.5 | 84.9 |
| CAT | 2388.1 | 2706.5 | 656.9 | 714.7 | 411.2 | 687.8 | 2468.2 | 4420.1 |
| CATSPER1 | 536.6 | 613.9 | 311.1 | 219.2 | 176 | 249.8 | 466.1 | 591.6 |
| CATSPER2 | 110.3 | 127.5 | 103.1 | 102.8 | 93.1 | 120.9 | 118 | 118.3 |
| CATSPER3 | 114.7 | 132 | 99.8 | 76.8 | 78.2 | 79.5 | 95.3 | 113.7 |
| CATSPER4 | 98.8 | 113.3 | 88.4 | 85.4 | 88.5 | 86.8 | 105.8 | 103.9 |
| CAV1 | 147.3 | 185.8 | 135.7 | 248.9 | 218.7 | 329.1 | 172.8 | 220.1 |
| CAV2 | 150.8 | 189.7 | 109.5 | 128.2 | 111.3 | 132.7 | 135.7 | 169.9 |
| CAV2 | 109.6 | 136.8 | 102.2 | 94.2 | 92.7 | 97.7 | 113.2 | 130.6 |
| CAV3 | 104.7 | 112.3 | 103.8 | 99.2 | 89.4 | 94.2 | 111.9 | 110.5 |
| CAV3 | 112.6 | 115.7 | 90.1 | 82.5 | 72.8 | 79.7 | 111.6 | 132.3 |
| CBARA1 | 267.9 | 362.4 | 279 | 311.2 | 209.1 | 421.2 | 233.9 | 419.7 |
| CBFA2T2 | 168.4 | 202.9 | 129.6 | 147.1 | 134.1 | 161.7 | 158.3 | 190.8 |
| CBFA2T2 | 102.4 | 124.6 | 96.2 | 99.8 | 83.3 | 98.2 | 105.5 | 107.9 |
| CBFA2T2 | 124.1 | 114.1 | 98 | 97.1 | 90.3 | 100.9 | 107.9 | 111.7 |
| CBFA2T3 | 128.1 | 149.6 | 94.2 | 90.5 | 93.5 | 90.9 | 114.4 | 141.5 |
| CBFA2T3 | 101 | 120.2 | 118.4 | 115.5 | 119.2 | 111.2 | 106.4 | 119.6 |
| CBFA2T3 | 106.1 | 127.7 | 91 | 86.1 | 89.6 | 86.7 | 116.5 | 110.8 |
| CBFB | 2451.8 | 2857.9 | 1254.2 | 1120.7 | 620.9 | 1427.4 | 1903.8 | 4617.5 |
| CBFB | 132.3 | 149.8 | 86.7 | 87.5 | 77.8 | 88 | 111.5 | 143.2 |

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|---------|--------|--------|--------|--------|-------|--------|--------|--------|
| CBL | 396.2 | 595.6 | 190 | 230.2 | 252.9 | 378.6 | 456.1 | 1213 |
| CBLB | 204.9 | 238.5 | 154.2 | 222.6 | 206.5 | 296.6 | 206.2 | 249.9 |
| CBLC | 129 | 150.4 | 98.2 | 96.2 | 85.1 | 97.8 | 136 | 147.8 |
| CBLL1 | 1433.2 | 1763.9 | 626.3 | 605.3 | 480.1 | 517.5 | 1191.8 | 1660.6 |
| CBLN1 | 76.5 | 85.3 | 92.2 | 95.4 | 85.6 | 103.6 | 85 | 84.1 |
| CBLN2 | 92.4 | 103.3 | 76.5 | 70.9 | 64.8 | 71.4 | 83 | 103.3 |
| CBLN3 | 158.8 | 180.8 | 126 | 112.5 | 128.5 | 118.6 | 131.1 | 159 |
| CBLN4 | 88 | 85.9 | 96.3 | 93.6 | 87.9 | 91.9 | 88.6 | 88.3 |
| CBR1 | 300.9 | 400.4 | 184.4 | 152.5 | 146.2 | 161.6 | 300.6 | 355.5 |
| CBR3 | 183.3 | 227.3 | 148.6 | 151.4 | 139.9 | 170.3 | 245.3 | 367 |
| CBR4 | 378.3 | 442.5 | 285.8 | 353.8 | 264.7 | 431.2 | 240.6 | 401.7 |
| CBS | 2647 | 3183 | 1823 | 883 | 799.5 | 1108.6 | 2165.3 | 2670.7 |
| CBWD1 | 118.3 | 127.7 | 89.4 | 90.3 | 86.7 | 92.6 | 109.4 | 163.9 |
| CBWD2 | 83.7 | 94.6 | 87.9 | 93.1 | 86.2 | 81.9 | 103.7 | 89.7 |
| CBWD5 | 3788 | 4854.9 | 1134.2 | 721.5 | 604.1 | 1007.7 | 2788.8 | 4015.3 |
| CBX1 | 488.1 | 761.5 | 151.7 | 128.5 | 117.8 | 166.8 | 499.7 | 448 |
| CBX2 | 127.1 | 163.6 | 91.6 | 83.3 | 91.9 | 114.2 | 117.4 | 135.2 |
| CBX2 | 80.6 | 94.8 | 87.8 | 88.5 | 77.5 | 77 | 93.5 | 92.9 |
| CBX2 | 642.3 | 860.8 | 546.4 | 363 | 279.8 | 325.5 | 554.9 | 690 |
| CBX3 | 236.8 | 277.6 | 155 | 152.3 | 130.1 | 146 | 210.6 | 238.2 |
| CBX3 | 1809.8 | 2148.8 | 961.2 | 1198.4 | 957.3 | 1171.4 | 1392.9 | 1687.9 |
| CBX3 | 79.8 | 85.5 | 90.4 | 81.2 | 77.7 | 86.4 | 75.8 | 82.3 |
| CBX4 | 408.2 | 445.2 | 294.9 | 281.7 | 253 | 387.6 | 380.1 | 792.3 |
| CBX5 | 1684.2 | 2207.9 | 645.7 | 489.1 | 379.6 | 532.9 | 1285.6 | 1502.6 |
| CBX6 | 1364.3 | 1794.4 | 801.3 | 716.8 | 577 | 866.9 | 982.9 | 1123.2 |
| CBX7 | 174.8 | 203.8 | 199.6 | 177.6 | 177.9 | 225.6 | 155 | 215.7 |
| CBX8 | 156.4 | 197.1 | 145.4 | 132.8 | 122.7 | 165.2 | 161.3 | 176.5 |
| CBY1 | 91.6 | 104.6 | 97.5 | 85.7 | 88.8 | 96 | 95.8 | 101.1 |
| CC2D1A | 136.6 | 145.6 | 130.5 | 96.3 | 104.3 | 113.9 | 133.4 | 183.1 |
| CC2D1B | 444.7 | 441.3 | 311 | 448.4 | 368.4 | 353.5 | 372.3 | 496.7 |
| CCBE1 | 442.3 | 412.2 | 191.8 | 256.5 | 248.5 | 212.3 | 457.1 | 657.3 |
| CCBL1 | 176.2 | 229.8 | 129.9 | 120.1 | 121.4 | 128.4 | 149 | 161.9 |
| CCBL2 | 568.6 | 746.1 | 207.8 | 209.6 | 238.2 | 296.1 | 506.5 | 693.1 |
| CCBL2 | 229.9 | 327.2 | 138.2 | 158.7 | 130.6 | 169.1 | 173 | 210.4 |
| CCBP2 | 422.2 | 555.1 | 285.1 | 237.8 | 199.5 | 227.3 | 286.8 | 257.8 |
| CCDC104 | 103.3 | 110.9 | 101.8 | 87 | 86.2 | 87 | 120.5 | 115.2 |
| CCDC108 | 76.6 | 87 | 89.4 | 80.7 | 79.2 | 86.7 | 80.4 | 88.5 |
| CCDC108 | 97.7 | 107.9 | 86.6 | 79.4 | 84.1 | 81.9 | 90.6 | 120.8 |
| CCDC11 | 97.2 | 107.4 | 116.2 | 101.5 | 93.5 | 105 | 93.1 | 107.1 |
| CCDC110 | 79.3 | 86.2 | 110.8 | 102.4 | 87.8 | 94.5 | 89.4 | 82.4 |
| CCDC117 | 99.3 | 115.9 | 96.9 | 100.8 | 86.6 | 111.8 | 98.7 | 104.7 |
| CCDC12 | 1800.9 | 2390.9 | 1282.6 | 1216.7 | 976 | 1336.2 | 1769.3 | 1682.3 |
| CCDC121 | 138 | 170.6 | 102.9 | 95.5 | 91.1 | 105.7 | 116.7 | 141.4 |
| CCDC127 | 279.7 | 402.9 | 166.4 | 181.2 | 157.8 | 217.5 | 294 | 457.6 |
| CCDC129 | 120.3 | 127.1 | 95.5 | 82.2 | 90.3 | 86.8 | 111.4 | 128.7 |
| CCDC13 | 90.1 | 103.5 | 102.1 | 96.2 | 86.8 | 94.9 | 95.7 | 107.2 |
| CCDC14 | 1790.7 | 1697 | 815.4 | 860.8 | 743.4 | 1527.8 | 1064.7 | 1416.5 |
| CCDC16 | 1474.5 | 1815.6 | 747.3 | 738.9 | 657 | 1148.4 | 926.9 | 1566.4 |
| CCDC17 | 93.1 | 92.3 | 105.1 | 103.3 | 97.4 | 105.3 | 93.3 | 99.1 |
| CCDC18 | 127.4 | 132.2 | 107.1 | 97.8 | 96.8 | 100.1 | 108.4 | 104.6 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| CCDC21 | 465.6 | 571.9 | 337.6 | 335.4 | 283.3 | 337.4 | 446.1 | 361.8 |
| CCDC22 | 162.9 | 204 | 113 | 105.8 | 94.7 | 123.9 | 169.1 | 201.9 |
| CCDC23 | 2845.9 | 3667 | 2682.8 | 2643.8 | 2131.2 | 3008.7 | 2818.3 | 4169.4 |
| CCDC24 | 186 | 202.5 | 125 | 109.3 | 102 | 119.5 | 154.5 | 169.9 |
| CCDC25 | 724.8 | 933.6 | 258.7 | 286.9 | 206.4 | 308.2 | 610.4 | 920.4 |
| CCDC25 | 1232.3 | 1505.4 | 1006.3 | 1151.5 | 1040.2 | 1460 | 949.2 | 1104.1 |
| CCDC27 | 157.4 | 171.3 | 111.3 | 100.9 | 108.9 | 104.3 | 144 | 165.2 |
| CCDC28A | 1534.7 | 2047.9 | 939.1 | 1234 | 929.9 | 1283.6 | 1497.2 | 2084.5 |
| CCDC28B | 204.2 | 230.5 | 133.9 | 126.5 | 123.3 | 142.5 | 187.6 | 221.9 |
| CCDC3 | 92.1 | 115.6 | 102.8 | 93.6 | 95.7 | 98.6 | 87.6 | 107.6 |
| CCDC32 | 437 | 594 | 186.7 | 169.6 | 173.6 | 223.1 | 414.4 | 461.8 |
| CCDC32 | 2222.7 | 3000 | 1938.4 | 2025.9 | 1604.4 | 2354.7 | 2019.2 | 2749.3 |
| CCDC33 | 95.4 | 106.9 | 102.8 | 101.9 | 96.6 | 98.7 | 83.9 | 92.3 |
| CCDC34 | 78.4 | 81.1 | 84.5 | 91.2 | 87.1 | 77.7 | 77.7 | 78.6 |
| CCDC34 | 747 | 926.9 | 390.9 | 352.1 | 397.5 | 969.1 | 469.5 | 701.1 |
| CCDC34 | 2842.7 | 3582.2 | 2063.3 | 1962.7 | 1733.6 | 2775.1 | 2159.2 | 2686.2 |
| CCDC36 | 122.9 | 128.6 | 101.9 | 100.7 | 84.9 | 94.6 | 122.2 | 142.3 |
| CCDC37 | 85 | 92.4 | 94.7 | 83.9 | 85.5 | 85.2 | 82.4 | 87 |
| CCDC38 | 85.5 | 93.6 | 89.9 | 92.9 | 79.9 | 95.4 | 87.2 | 96.1 |
| CCDC4 | 118.6 | 163.1 | 159.2 | 115.4 | 115.5 | 125.8 | 110.3 | 157.6 |
| CCDC4 | 200.8 | 233.4 | 126.4 | 117.1 | 101.4 | 114 | 184.8 | 194.1 |
| CCDC41 | 113 | 126 | 105.6 | 96.6 | 93.7 | 114.5 | 101.8 | 126.6 |
| CCDC41 | 302.8 | 352 | 189.5 | 256.7 | 199.1 | 422.8 | 228.2 | 305.9 |
| CCDC42 | 76.6 | 74 | 75 | 78.6 | 78.6 | 71.7 | 75.3 | 82.8 |
| CCDC43 | 431.4 | 575.5 | 163.9 | 187.9 | 143.7 | 164.2 | 369.7 | 503.1 |
| CCDC44 | 1392.7 | 1775.1 | 753.1 | 685.4 | 550.9 | 774.3 | 1099.9 | 1060.9 |
| CCDC45 | 755.5 | 852.4 | 358.9 | 459.3 | 381.3 | 628.9 | 625.9 | 677.5 |
| CCDC46 | 89.8 | 89.4 | 90 | 87 | 81.1 | 88.2 | 81.8 | 85 |
| CCDC46 | 73.8 | 93.1 | 88.5 | 74.6 | 78.9 | 79.2 | 81 | 83.3 |
| CCDC47 | 327.5 | 437.9 | 214.7 | 249.4 | 178.8 | 289.4 | 289.3 | 492.3 |
| CCDC48 | 105 | 137.1 | 94.3 | 76.6 | 77 | 88 | 110.6 | 137.7 |
| CCDC49 | 617.4 | 717.9 | 386.1 | 354.5 | 352.6 | 427 | 474.6 | 650.5 |
| CCDC5 | 1469.8 | 1755.1 | 610.2 | 603.9 | 487.4 | 928.6 | 1041.5 | 1095.2 |
| CCDC50 | 1539.3 | 1835.3 | 904.3 | 932.3 | 832.5 | 1259.4 | 1427.6 | 1856.6 |
| CCDC50 | 94.3 | 108.5 | 82.5 | 86.9 | 80.7 | 77.8 | 86 | 101.4 |
| CCDC51 | 428.7 | 531.9 | 270.5 | 249.3 | 194 | 276.5 | 352.6 | 360 |
| CCDC52 | 79.2 | 91.8 | 94.6 | 105.3 | 93 | 90.5 | 87.4 | 93.3 |
| CCDC53 | 1019.1 | 1303.1 | 731.2 | 570.2 | 470 | 760.6 | 976.3 | 1472.4 |
| CCDC54 | 84.6 | 103.7 | 101.6 | 90.8 | 84.6 | 82.1 | 95.9 | 88 |
| CCDC55 | 491.5 | 598 | 168.3 | 182.1 | 163.8 | 288.2 | 415.3 | 738 |
| CCDC56 | 3513.7 | 4792.7 | 2297.1 | 2086.8 | 1628.9 | 1966.8 | 3207.9 | 3041.1 |
| CCDC57 | 76.3 | 82.9 | 104.8 | 93.1 | 85.6 | 98.2 | 76.6 | 83.7 |
| CCDC58 | 1607.8 | 1934 | 732.1 | 628.1 | 461.3 | 1098.1 | 1276.1 | 2075.4 |
| CCDC59 | 3145.3 | 3375.4 | 2476.2 | 2934.2 | 2443.6 | 5183.9 | 2665.8 | 4864.7 |
| CCDC6 | 1136 | 1579.6 | 1406.6 | 1276.3 | 906.6 | 1470.5 | 1099.2 | 1444.6 |
| CCDC60 | 107.2 | 102.7 | 91.3 | 93.9 | 93.3 | 87.4 | 101.7 | 103.7 |
| CCDC62 | 128.9 | 164.7 | 95.6 | 99.3 | 90.9 | 107.2 | 127.8 | 186.1 |
| CCDC62 | 109.6 | 126.2 | 100.7 | 87.3 | 82 | 89.1 | 107 | 121 |
| CCDC63 | 113 | 128.2 | 91.2 | 89 | 86.3 | 87.3 | 105.5 | 120.1 |
| CCDC64 | 87.2 | 94.8 | 88.8 | 89.8 | 91.4 | 92.5 | 91.8 | 85.7 |

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|---------|--------|---------|--------|--------|--------|--------|--------|--------|
| CCDC65 | 95 | 125.2 | 90 | 76 | 82.3 | 79.9 | 104 | 101.1 |
| CCDC66 | 242 | 278.9 | 149.9 | 146.3 | 137.6 | 204.3 | 191 | 267.5 |
| CCDC67 | 102.9 | 124.3 | 96.6 | 91.2 | 88 | 90.6 | 100.7 | 126.5 |
| CCDC68 | 108.1 | 107.6 | 101.2 | 88.6 | 92.5 | 95.7 | 95.9 | 101.8 |
| CCDC69 | 157.8 | 163.1 | 103.2 | 107.4 | 80.2 | 95.5 | 148.9 | 204.6 |
| CCDC7 | 102.1 | 118.8 | 114.6 | 93.9 | 100.6 | 93.8 | 100.7 | 105.6 |
| CCDC7 | 83 | 90.9 | 92.9 | 77.3 | 76.4 | 90.4 | 78.8 | 86.3 |
| CCDC7 | 92.4 | 111.4 | 91.4 | 87.9 | 85.1 | 90.2 | 101 | 98.4 |
| CCDC70 | 136.3 | 174.3 | 94.7 | 79.2 | 89.1 | 89.8 | 139.6 | 163.5 |
| CCDC71 | 386.5 | 666.1 | 340.7 | 326.4 | 253.8 | 367.3 | 445.8 | 522 |
| CCDC72 | 9415.6 | 11022.4 | 4209.4 | 4223 | 4283.5 | 7286.2 | 7363 | 8059.5 |
| CCDC74A | 125.2 | 129.7 | 97.2 | 87.6 | 89.4 | 92.6 | 111.8 | 113.7 |
| CCDC74B | 94.5 | 111.8 | 97.6 | 101.9 | 84.7 | 92 | 97.5 | 104.1 |
| CCDC75 | 130.3 | 136.5 | 98.2 | 108.3 | 103.4 | 97.9 | 112.8 | 111.7 |
| CCDC76 | 739.5 | 864 | 432.5 | 294.4 | 240.9 | 556.3 | 480.5 | 1051.7 |
| CCDC77 | 496.9 | 596.6 | 300.3 | 337.5 | 298.5 | 439.8 | 587.6 | 751.3 |
| CCDC8 | 113.5 | 127.8 | 91.2 | 94.5 | 98.2 | 95.5 | 122.7 | 121.4 |
| CCDC85A | 77.1 | 85.7 | 90 | 88.2 | 80.9 | 87.9 | 78.4 | 83.9 |
| CCDC9 | 89 | 112.5 | 115.7 | 95 | 91.5 | 106.1 | 99.2 | 101.9 |
| CCDC90B | 2559.4 | 3148.1 | 1899.3 | 2232.3 | 1614.8 | 2488.8 | 2316.9 | 3943.9 |
| CCDC91 | 117.4 | 145.2 | 99.9 | 91.2 | 86.3 | 101.7 | 116.7 | 156.6 |
| CCHCR1 | 98.7 | 129.3 | 92.4 | 76.4 | 79.7 | 74.1 | 99 | 112.8 |
| CCIN | 93.3 | 98.7 | 100.8 | 93.1 | 79.4 | 94.8 | 87.3 | 99.1 |
| CCK | 89.8 | 96.8 | 99.2 | 89.4 | 78.1 | 87.4 | 83.6 | 83.9 |
| CCKAR | 90.1 | 110.2 | 97.4 | 98.5 | 87.7 | 96.5 | 98.3 | 99.3 |
| CCKBR | 88.4 | 103.6 | 84.3 | 97.5 | 83.7 | 91.8 | 87.7 | 99.8 |
| CCL1 | 92.6 | 98.9 | 85.7 | 79.3 | 82.6 | 83.6 | 85.3 | 94.6 |
| CCL11 | 77.4 | 92.9 | 93.7 | 78.3 | 89.2 | 90 | 79.2 | 88.4 |
| CCL13 | 133.3 | 146.9 | 101.8 | 106.9 | 99.3 | 115.6 | 131.2 | 140.3 |
| CCL15 | 89.7 | 106.2 | 84.5 | 90.6 | 81.2 | 86.8 | 84.9 | 85.6 |
| CCL15 | 75.3 | 85.9 | 91.2 | 81.2 | 81.7 | 83.7 | 75.2 | 83.8 |
| CCL16 | 137 | 172.5 | 101.3 | 91.9 | 87.1 | 94.4 | 131.1 | 128.6 |
| CCL17 | 78.5 | 92.9 | 96.9 | 85 | 79.2 | 89.7 | 80 | 79.1 |
| CCL18 | 114 | 134.8 | 76.3 | 84.9 | 73.9 | 76 | 110.3 | 131.5 |
| CCL19 | 109.5 | 124.9 | 116 | 102.3 | 91.7 | 99.2 | 104.9 | 111.1 |
| CCL2 | 191.4 | 245.9 | 141.5 | 164.8 | 151.1 | 178.8 | 227.1 | 269.9 |
| CCL20 | 138.6 | 174.6 | 98.8 | 107.3 | 102.8 | 110.5 | 132.6 | 167.5 |
| CCL21 | 92.3 | 109.3 | 107.4 | 90.5 | 92.7 | 95.8 | 97.5 | 107.6 |
| CCL22 | 174.2 | 182.7 | 134.3 | 151.7 | 120.9 | 143.2 | 167.2 | 219 |
| CCL23 | 236.1 | 324.8 | 208.6 | 226.5 | 188.9 | 236.8 | 239.6 | 345.6 |
| CCL23 | 1464.2 | 1861.9 | 967 | 979.1 | 794.5 | 881.5 | 1375.5 | 1450.7 |
| CCL24 | 90.3 | 97.1 | 84.4 | 85.3 | 78.8 | 81.5 | 88.9 | 87 |
| CCL25 | 91.3 | 100 | 85.8 | 84.8 | 82.3 | 96.1 | 98.4 | 100.4 |
| CCL25 | 114.1 | 123.8 | 91 | 83.1 | 88.7 | 86.6 | 97.4 | 107.2 |
| CCL26 | 113.3 | 139.6 | 103.1 | 90.2 | 91.2 | 92.9 | 118.4 | 128.4 |
| CCL27 | 100.4 | 94.4 | 94.8 | 84.8 | 87.1 | 86.3 | 89.3 | 92.4 |
| CCL28 | 172.4 | 186.3 | 103.1 | 95.4 | 87.6 | 94.3 | 152.4 | 167.1 |
| CCL3 | 100.8 | 108.8 | 102.5 | 90.9 | 108.9 | 94.7 | 94.2 | 107.7 |
| CCL3L1 | 124.2 | 162.3 | 100.5 | 98 | 99.9 | 103 | 139.2 | 137.2 |
| CCL3L3 | 170.7 | 191.6 | 162.1 | 151.6 | 227.8 | 173.2 | 177.8 | 224.7 |

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|----------|---------|---------|--------|--------|--------|--------|---------|---------|
| CCL4L1 | 89.3 | 107.7 | 96.3 | 96.2 | 100.3 | 83.6 | 101 | 100.3 |
| CCL5 | 8668.9 | 10435 | 5098.7 | 3628 | 2945 | 2726.7 | 6921.8 | 6119.3 |
| CCL7 | 81.7 | 88.5 | 88 | 83.6 | 79.6 | 85 | 78.6 | 88 |
| CCL8 | 90 | 114.5 | 99.2 | 91.9 | 86.3 | 89 | 95.5 | 104.1 |
| CCM2 | 207.6 | 331.7 | 130 | 101.7 | 96.7 | 89.2 | 243.4 | 288.5 |
| CCM2 | 192 | 244.5 | 135.1 | 142.7 | 125.9 | 102.4 | 221.1 | 347 |
| CCM2 | 1442.2 | 1805.7 | 1047.4 | 1429.2 | 1494.6 | 1268 | 1634.1 | 1635.6 |
| CCNA1 | 1391.9 | 1989.9 | 1171.6 | 409.1 | 401.4 | 668.7 | 1008.7 | 1444 |
| CCNA2 | 3366.7 | 4764.7 | 2129.7 | 1252.4 | 943.3 | 1567.2 | 2456.9 | 3712.9 |
| CCNB1 | 870.9 | 1104.8 | 310.3 | 184.8 | 168.9 | 174.3 | 769.1 | 1442.9 |
| CCNB1IP1 | 3375.5 | 4443.1 | 2044.1 | 1143.5 | 986.4 | 1420.2 | 3299.2 | 4157.4 |
| CCNB1IP1 | 144.1 | 179.5 | 112 | 97.2 | 88.7 | 97.8 | 137.3 | 160.2 |
| CCNB1IP1 | 90.9 | 102.7 | 96.7 | 97.8 | 86 | 86.5 | 98 | 106 |
| CCNB1IP1 | 1513.4 | 1903.1 | 1031.6 | 596.5 | 447.2 | 727.9 | 1425.9 | 1841.7 |
| CCNB2 | 4712.6 | 6057.8 | 2763.5 | 1570.2 | 1321.7 | 1684.2 | 4339.6 | 5027.5 |
| CCNB3 | 95.6 | 99.5 | 95 | 92 | 85.9 | 90.9 | 100.2 | 105.8 |
| CCNB3 | 90 | 102.1 | 90.7 | 88.5 | 73.1 | 94.1 | 87.6 | 97.4 |
| CCNB3 | 81.5 | 89.7 | 100.2 | 90.4 | 87.7 | 92.9 | 85.1 | 81.4 |
| CCNC | 1678.5 | 2162.7 | 644.1 | 691.5 | 524.2 | 827.2 | 1010.4 | 1370.4 |
| CCNC | 2042.9 | 2659.4 | 793.8 | 926.5 | 578.7 | 1323.5 | 1496.7 | 2262.5 |
| CCNC | 1013 | 1378.1 | 244.9 | 269.6 | 225.8 | 288.9 | 906.6 | 1555.6 |
| CCND1 | 436.1 | 555.9 | 317.7 | 302.6 | 205.2 | 305.8 | 321.5 | 339.1 |
| CCND2 | 98.5 | 121.5 | 98.3 | 99.2 | 100.5 | 110.5 | 87.2 | 112.1 |
| CCND3 | 12868.2 | 15695.4 | 10279 | 7658.3 | 5257 | 6361.6 | 12926.7 | 12894.7 |
| CCNDBP1 | 186.8 | 232.4 | 108.9 | 95.2 | 92.6 | 133.6 | 146.7 | 162.8 |
| CCNDBP1 | 101.3 | 112.5 | 96.2 | 95.2 | 92.5 | 98.1 | 97.9 | 102.1 |
| CCNDBP1 | 3770.1 | 4624.4 | 2653.5 | 2687.6 | 2480.3 | 3472.7 | 3006.1 | 4328.1 |
| CCNE1 | 968 | 1322.4 | 720.9 | 691.5 | 565.3 | 717.1 | 779.9 | 999.9 |
| CCNE1 | 119.1 | 145.4 | 107.4 | 81.8 | 89.3 | 85.2 | 114.7 | 112.5 |
| CCNE2 | 86.4 | 87.9 | 89.2 | 82.8 | 85.6 | 83.6 | 88 | 109.5 |
| CCNE2 | 1646 | 2065.4 | 1072.2 | 845.6 | 618.4 | 1473.3 | 893.2 | 1647.1 |
| CCNF | 1472.4 | 2087.2 | 1434.5 | 914.1 | 735.5 | 816.5 | 1350.7 | 1306.1 |
| CCNG1 | 2649 | 2891.1 | 814.3 | 981.6 | 826.9 | 918.9 | 2774.6 | 4087.2 |
| CCNG1 | 84.7 | 105.8 | 92.1 | 87.1 | 75.4 | 76.6 | 93.7 | 110.6 |
| CCNG2 | 272.5 | 334.6 | 132.2 | 210.7 | 220.2 | 310.3 | 297.1 | 417 |
| CCNH | 764.6 | 891.3 | 276.6 | 243.8 | 195.2 | 267 | 710.8 | 1245.3 |
| CCNI | 10736.6 | 14213.7 | 7900.1 | 7761.1 | 5504.3 | 7401.8 | 8815.6 | 10664.3 |
| CCNJ | 139.8 | 154.8 | 108.6 | 98.6 | 87.7 | 102.3 | 119.5 | 148 |
| CCNK | 1056.1 | 1405.2 | 716.8 | 1037 | 667.9 | 1184.4 | 976 | 2389.8 |
| CCNL1 | 941.6 | 1125.7 | 594 | 693.4 | 713.1 | 996.7 | 694.9 | 1070 |
| CCNL2 | 201.8 | 239.9 | 119.1 | 122.2 | 98.4 | 112.9 | 160.6 | 196.8 |
| CCNT1 | 157.1 | 191.8 | 134.1 | 120 | 106.8 | 127.3 | 137.5 | 187.5 |
| CCNT2 | 142.9 | 176.2 | 115 | 104.4 | 89.4 | 105.6 | 114.7 | 144.9 |
| CCNT2 | 325.7 | 365.2 | 252.8 | 261.6 | 238.7 | 522.9 | 245.2 | 473.5 |
| CCNT2 | 108.4 | 123.4 | 97.7 | 104 | 88.9 | 89.8 | 102.2 | 102 |
| CCNY | 1271.8 | 1857.7 | 913.2 | 1236.6 | 1037.6 | 924.7 | 1317.1 | 1367.3 |
| CCNYL1 | 474.9 | 478.5 | 244.2 | 331.9 | 239.7 | 361.2 | 367.9 | 641.6 |
| CCPG1 | 102.1 | 96.7 | 95 | 93.7 | 96.1 | 102.4 | 114.1 | 155.1 |
| CCPG1 | 316.7 | 428.2 | 279.2 | 278.4 | 248.7 | 434.8 | 515.1 | 844.8 |
| CCR1 | 383.9 | 454.2 | 334.4 | 363.7 | 302.1 | 559.8 | 343 | 551.6 |

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|---------|---------|---------|--------|---------|---------|---------|---------|---------|
| CCR10 | 96.1 | 96.2 | 90.5 | 87.3 | 85.1 | 93 | 88.2 | 95.8 |
| CCR2 | 77.4 | 96.5 | 91.2 | 85.5 | 81 | 88.6 | 98.3 | 93 |
| CCR2 | 394.5 | 563.6 | 242.9 | 244.8 | 170.7 | 291.6 | 265.2 | 300.4 |
| CCR3 | 93.7 | 107.5 | 101.6 | 95.7 | 88.6 | 92.4 | 96.3 | 105.9 |
| CCR3 | 85.3 | 86.7 | 104.7 | 91 | 81.1 | 87.1 | 100.7 | 90.9 |
| CCR4 | 74.5 | 90.2 | 87 | 80.8 | 73.8 | 81.6 | 83.3 | 79.9 |
| CCR5 | 85.5 | 102.6 | 84.8 | 82.9 | 85.6 | 79.1 | 87 | 102.4 |
| CCR6 | 19499.4 | 20698 | 9726.6 | 14017.2 | 14050.1 | 10744.1 | 18157.4 | 20824.2 |
| CCR6 | 82.1 | 85.6 | 86.7 | 94.7 | 82.8 | 89.8 | 80.2 | 85.4 |
| CCR7 | 85.3 | 102.1 | 94.7 | 86.1 | 89.6 | 83.1 | 85.2 | 98.5 |
| CCR8 | 76.2 | 89.9 | 101 | 89.5 | 93.5 | 91 | 84.3 | 85.3 |
| CCR9 | 154 | 172.4 | 103.2 | 90.4 | 84.7 | 98.6 | 129.3 | 146.9 |
| CCR9 | 65 | 73.5 | 78.7 | 72.1 | 79.7 | 75.5 | 67.4 | 78.4 |
| CCRK | 701.4 | 778.5 | 557.8 | 357.1 | 355.1 | 495.7 | 434.1 | 424.5 |
| CCRK | 258.3 | 284.6 | 215.8 | 169.5 | 169.4 | 254.9 | 175.5 | 260.3 |
| CCRL1 | 91.1 | 87.3 | 93.8 | 82.7 | 83.5 | 82.3 | 92.5 | 89.1 |
| CCRL1 | 92.9 | 90.2 | 95.2 | 98.5 | 92.2 | 94.9 | 92.7 | 95.3 |
| CCRL1 | 85 | 84.2 | 102.6 | 89.7 | 90 | 86.3 | 84.3 | 89 |
| CCRL2 | 85.2 | 91.4 | 102.2 | 89.4 | 85.5 | 95.3 | 84.7 | 86 |
| CCRN4L | 513.3 | 820 | 406.2 | 387.7 | 296.7 | 265.8 | 427.8 | 473.3 |
| CCS | 537.9 | 682.4 | 336.9 | 243.6 | 220.8 | 146.1 | 424.7 | 486.9 |
| CCS | 368.9 | 438.5 | 218 | 217.6 | 184.2 | 195.1 | 310.2 | 307.1 |
| CCT2 | 4750.1 | 6001.7 | 4111.7 | 3903.9 | 3123.3 | 6056.9 | 3303.2 | 5992.3 |
| CCT3 | 1367.6 | 1907.2 | 295.8 | 277.5 | 298.7 | 279.6 | 1375.3 | 1355.1 |
| CCT3 | 4965 | 6590 | 3842.8 | 2335.1 | 2105.1 | 3952.1 | 4173.2 | 5116.4 |
| CCT4 | 676 | 860.8 | 390.3 | 441.6 | 291.1 | 470.6 | 552.9 | 782.3 |
| CCT5 | 288.8 | 349.3 | 144.6 | 141.8 | 123.3 | 187.2 | 269.3 | 373.3 |
| CCT6A | 3612.9 | 4790.8 | 841.3 | 801.4 | 543.9 | 834.7 | 2453.5 | 3936.5 |
| CCT6A | 2159.3 | 2612.7 | 849.9 | 632.2 | 477.8 | 910.8 | 1550.5 | 3620.5 |
| CCT6AP1 | 3002.1 | 3726.8 | 1285.8 | 1248.1 | 913.7 | 1590.1 | 2292.1 | 5209.7 |
| CCT6B | 251.7 | 338.3 | 158.1 | 166.2 | 128 | 162.6 | 222.3 | 402.3 |
| CCT7 | 8603.1 | 11200.8 | 7257.3 | 6245.3 | 5065 | 8335.2 | 8166.1 | 11526.4 |
| CCT7 | 2464.2 | 3374.2 | 496.4 | 512.7 | 486.5 | 854.8 | 2423 | 3412 |
| CCT7 | 4315.1 | 5288.3 | 1925.4 | 1376.1 | 1076.9 | 1667.7 | 3573.6 | 4674.5 |
| CCT8 | 13112.4 | 16248.3 | 8583 | 6220.8 | 4090.8 | 8113.8 | 9980.8 | 16051.3 |
| CD109 | 120 | 138.6 | 117 | 103.1 | 106.9 | 113.8 | 124.3 | 138.2 |
| CD14 | 365.9 | 459.3 | 311.2 | 1626.7 | 1013.4 | 1225.5 | 326.9 | 318.3 |
| CD14 | 143.1 | 152.2 | 124 | 231.6 | 190.2 | 254.5 | 118.5 | 133.2 |
| CD151 | 653.8 | 963.8 | 386.2 | 374.6 | 276.2 | 202.3 | 601.8 | 836.5 |
| CD151 | 6235.5 | 7969.2 | 4205.6 | 3770.1 | 2789.5 | 3602.8 | 5984.5 | 7544.1 |
| CD151 | 219 | 297.4 | 127.9 | 124.7 | 114.5 | 149 | 218.3 | 323.3 |
| CD160 | 129.6 | 166.3 | 105 | 96 | 82.3 | 93.8 | 133.1 | 150.9 |
| CD163 | 93.3 | 112.8 | 93.9 | 96.3 | 78.3 | 91.3 | 98.3 | 103.9 |
| CD163 | 87.6 | 93.1 | 95.4 | 95.1 | 81.3 | 92.3 | 91.7 | 97.4 |
| CD164 | 262.7 | 290.1 | 130.3 | 160.8 | 120.2 | 161.2 | 276.2 | 445.7 |
| CD164L2 | 77.2 | 83.2 | 83.8 | 79.5 | 74.8 | 77.8 | 84.5 | 80.5 |
| CD177 | 99.9 | 119.8 | 100.3 | 94.6 | 92.9 | 85.9 | 110.6 | 126.9 |
| CD180 | 99.6 | 115.4 | 97.5 | 88.5 | 89 | 86.9 | 98.1 | 112.4 |
| CD19 | 186.7 | 267.7 | 210.4 | 135.7 | 129.1 | 128 | 166.5 | 230.8 |
| CD1A | 88.8 | 106.6 | 100.5 | 87.6 | 81.4 | 97.6 | 94.7 | 98.9 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| CD1B | 76.3 | 78.7 | 90.4 | 94.5 | 88.3 | 100.2 | 78 | 80.5 |
| CD1C | 101.9 | 126.1 | 103.9 | 98.8 | 93.4 | 82.8 | 103.7 | 104.7 |
| CD1D | 881.8 | 1062.1 | 436.4 | 348.6 | 173.3 | 473.7 | 561.3 | 1152.1 |
| CD1E | 103.7 | 112.4 | 108.5 | 100.5 | 98.5 | 103.1 | 106.7 | 110.5 |
| CD1E | 113.5 | 135.3 | 89 | 82.1 | 77.2 | 84 | 127.9 | 108.5 |
| CD2 | 76.5 | 92.6 | 86.3 | 79.9 | 87.6 | 85.6 | 79.6 | 82.3 |
| CD200 | 162.6 | 194.8 | 114.6 | 112.6 | 112.6 | 114.4 | 144.2 | 161.5 |
| CD200 | 71.6 | 88.1 | 74.2 | 74.1 | 70.8 | 81.7 | 78.6 | 81.1 |
| CD200R1 | 84.5 | 84.2 | 92.1 | 88.5 | 81.6 | 88.4 | 77.5 | 82.3 |
| CD200R2 | 86 | 106.2 | 87.3 | 88.2 | 93 | 77.8 | 89.7 | 92.1 |
| CD207 | 80 | 87.8 | 98.8 | 95.4 | 90.3 | 89.9 | 87.8 | 93.2 |
| CD209 | 434.1 | 615.1 | 446.6 | 344.9 | 282.9 | 402.3 | 350.2 | 597.6 |
| CD22 | 94.9 | 103.2 | 90.7 | 86.6 | 90.1 | 88.2 | 86.1 | 97.9 |
| CD226 | 77 | 89 | 78.4 | 79.9 | 80.3 | 74.6 | 84.1 | 81.7 |
| CD24 | 110.2 | 120.2 | 116.6 | 195.2 | 178.8 | 168.5 | 109.8 | 125.6 |
| CD244 | 219.6 | 288.1 | 195 | 131.1 | 116.9 | 177.6 | 219.3 | 209.4 |
| CD247 | 183.1 | 231.6 | 129.1 | 95.2 | 94.4 | 114 | 121.9 | 133.7 |
| CD247 | 211.2 | 214 | 137.4 | 116.7 | 94.5 | 111.5 | 148 | 155.4 |
| CD248 | 81.1 | 92.3 | 85.7 | 88.3 | 80.6 | 81.7 | 79.9 | 84.1 |
| CD274 | 86.5 | 88.6 | 91.9 | 89.5 | 88 | 89.9 | 80.1 | 82.7 |
| CD276 | 427.8 | 588.9 | 469 | 652.9 | 452.6 | 786.8 | 400 | 693.7 |
| CD276 | 146.2 | 163.1 | 123.6 | 114.8 | 104.8 | 87.7 | 141.7 | 152.2 |
| CD2AP | 261.4 | 280.8 | 129.4 | 129.5 | 104.7 | 148.8 | 183 | 265.9 |
| CD2BP2 | 2404 | 3021.9 | 1713.9 | 1252.3 | 1137.6 | 1361.2 | 1966.5 | 2187.8 |
| CD300A | 268.3 | 356.3 | 205.7 | 308.9 | 250.9 | 453 | 247.2 | 296.7 |
| CD300C | 392.6 | 540.3 | 203.4 | 215.5 | 153.3 | 177.7 | 276.4 | 213.3 |
| CD300E | 94.3 | 109.1 | 95.8 | 89.2 | 84 | 91.5 | 108.5 | 107 |
| CD300LB | 94.9 | 101.7 | 100.6 | 92 | 91.8 | 83.8 | 85.6 | 101.7 |
| CD300LF | 687.3 | 881 | 514.8 | 657.9 | 540.5 | 775.4 | 713.3 | 597.9 |
| CD300LG | 207.3 | 264.9 | 135.6 | 338 | 148.8 | 306.4 | 211.8 | 315.5 |
| CD302 | 91.6 | 119.7 | 92 | 93.3 | 77.7 | 96.9 | 101.9 | 108.4 |
| CD320 | 494 | 650.8 | 523.6 | 332.6 | 271.6 | 352.4 | 442.1 | 649.6 |
| CD33 | 2451.9 | 2752.3 | 1332.6 | 1039.9 | 761.3 | 1174.3 | 2018.9 | 2545.9 |
| CD33L3 | 96.1 | 100.4 | 97.7 | 88.2 | 89.3 | 90.5 | 92.4 | 108.2 |
| CD34 | 118.1 | 127.9 | 97.7 | 93.2 | 90.2 | 99 | 114.1 | 134.4 |
| CD34 | 87.2 | 100.3 | 95 | 86.9 | 79.5 | 90.1 | 93.4 | 97.5 |
| CD34 | 84 | 85.2 | 92.2 | 95.7 | 96 | 96.4 | 83.7 | 86.6 |
| CD34 | 85.9 | 105.3 | 95.6 | 78.5 | 76.7 | 80.8 | 97.9 | 111.1 |
| CD36 | 366.7 | 470.6 | 220.4 | 418.4 | 356.1 | 624 | 282.8 | 443.5 |
| CD36 | 664.3 | 885.5 | 351 | 613.5 | 483.9 | 883.2 | 583.5 | 1088.7 |
| CD36 | 81.1 | 92.6 | 82.6 | 97.5 | 82.6 | 87 | 73.2 | 87.2 |
| CD37 | 1480.8 | 2059 | 1092.9 | 640.8 | 540 | 605.2 | 1344.1 | 2020.2 |
| CD37 | 2509.6 | 3264 | 1465.9 | 776.5 | 641.6 | 811.2 | 2350.3 | 4023.9 |
| CD38 | 356.2 | 517.7 | 189.9 | 132.4 | 121.3 | 136.3 | 330.5 | 424.5 |
| CD3D | 110 | 126.7 | 90.4 | 99.1 | 82.1 | 99.2 | 98.9 | 117.5 |
| CD3D | 82.9 | 89.5 | 88.3 | 91.5 | 81.8 | 83.7 | 83.9 | 91.7 |
| CD3E | 92.3 | 115.4 | 103.9 | 97 | 88.5 | 98.7 | 92.5 | 102.5 |
| CD3EAP | 233.8 | 280.4 | 126.7 | 108.6 | 107.1 | 126.3 | 186.3 | 189.4 |
| CD3G | 108.7 | 134.1 | 87.6 | 88.8 | 87 | 92.1 | 113.8 | 125.2 |
| CD4 | 158.5 | 230.6 | 203.1 | 189.6 | 158.8 | 213.2 | 148.6 | 233.9 |

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|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| CD40 | 99.5 | 105.8 | 89.3 | 87.3 | 82.4 | 87.1 | 108 | 115.6 |
| CD40 | 115.5 | 146.7 | 102.7 | 114.5 | 122.5 | 125.6 | 118.9 | 157.9 |
| CD40LG | 78.6 | 93.2 | 98.5 | 86.5 | 90.5 | 89.7 | 80.7 | 85.5 |
| CD44 | 112.4 | 126.5 | 121.4 | 101.3 | 110.9 | 122.3 | 101.9 | 105.7 |
| CD44 | 249.8 | 403.2 | 221.1 | 228.7 | 192.8 | 385.5 | 244.5 | 415.8 |
| CD44 | 2650.2 | 3370.6 | 1839.1 | 2856.2 | 1914.4 | 2930.6 | 2199.4 | 2992.3 |
| CD46 | 1469.2 | 1826.6 | 1039.7 | 1018.5 | 816.1 | 1514 | 1057.5 | 1967.5 |
| CD47 | 692.4 | 777.5 | 455.4 | 622.2 | 462.8 | 626.9 | 493.4 | 657.6 |
| CD47 | 83.8 | 98.3 | 108.4 | 90.3 | 92.9 | 93.7 | 87.9 | 97.5 |
| CD48 | 94.4 | 109.1 | 91.3 | 98.1 | 90.9 | 95.1 | 103.4 | 107.6 |
| CD5 | 89.8 | 96 | 91.1 | 99.6 | 88.4 | 104.2 | 81.7 | 102.9 |
| CD52 | 780.8 | 826.5 | 530.4 | 5138.9 | 3828 | 4470.7 | 733.5 | 792.6 |
| CD53 | 722.1 | 1099.3 | 263.6 | 234.4 | 172.7 | 301.4 | 580.5 | 769.6 |
| CD53 | 750.4 | 966.8 | 387.2 | 281.5 | 233.8 | 381.3 | 562.5 | 843.1 |
| CD55 | 391.3 | 538.1 | 185.4 | 145 | 124.2 | 189.2 | 420.1 | 681.9 |
| CD58 | 1447.4 | 1559.5 | 718 | 401.1 | 302.1 | 412.3 | 1355.8 | 2837.5 |
| CD59 | 106 | 125.7 | 93.3 | 102.3 | 99.3 | 99.7 | 107.7 | 126.9 |
| CD59 | 111 | 131.6 | 85.1 | 89 | 82.9 | 88.8 | 120.1 | 134.1 |
| CD5L | 106.1 | 131.3 | 85 | 80.2 | 75.5 | 89.5 | 107.4 | 112.7 |
| CD6 | 134.1 | 136 | 145.5 | 153.8 | 122.9 | 147.3 | 105.5 | 101.9 |
| CD63 | 768.2 | 902.3 | 328.8 | 386.3 | 326.6 | 440.2 | 741.1 | 602.3 |
| CD68 | 748.8 | 927.7 | 568.2 | 1260.7 | 911.4 | 1705.1 | 736.4 | 1296.8 |
| CD68 | 267.6 | 367.1 | 202 | 443.2 | 419.1 | 239.5 | 280.8 | 383.6 |
| CD69 | 77.6 | 95.8 | 89.4 | 87.7 | 79.9 | 81.8 | 86.7 | 95.1 |
| CD7 | 101.3 | 92.9 | 96.1 | 98.6 | 88.9 | 91.1 | 87 | 97.2 |
| CD72 | 140.4 | 141.3 | 103.3 | 98.6 | 95.4 | 99 | 140.9 | 150.1 |
| CD74 | 1176.6 | 1602.2 | 1082.8 | 883.7 | 762.8 | 902.8 | 1127.9 | 2109.2 |
| CD74 | 104.1 | 111.9 | 107.1 | 92.1 | 100.4 | 91.9 | 92.9 | 120.2 |
| CD74 | 509.6 | 790.9 | 412.3 | 366.9 | 272.2 | 353.2 | 505.9 | 929 |
| CD79A | 103.2 | 108.2 | 92.5 | 96.8 | 92.3 | 93.3 | 109.1 | 101.1 |
| CD79A | 127.3 | 140.3 | 126.6 | 114.2 | 95.8 | 113.3 | 136.9 | 136.7 |
| CD79A | 108.4 | 115.2 | 86 | 76.2 | 83.4 | 84.4 | 99.7 | 132.5 |
| CD79B | 233.7 | 309.2 | 169.2 | 135.1 | 124.1 | 137.5 | 216 | 234.2 |
| CD79B | 125.7 | 139.8 | 136.7 | 124.8 | 111.4 | 108.6 | 114.6 | 123.3 |
| CD79B | 115.4 | 127.9 | 102.5 | 85.9 | 92.4 | 94.4 | 115.2 | 119.1 |
| CD80 | 98.8 | 104.1 | 90.2 | 83.3 | 88.7 | 92 | 101.5 | 114.3 |
| CD81 | 22401.6 | 26994.8 | 17987.8 | 14865.5 | 11778.7 | 12648.4 | 22086.7 | 21098.7 |
| CD82 | 193.7 | 234.6 | 217 | 255.3 | 254.3 | 255.4 | 172.8 | 290.7 |
| CD82 | 199.7 | 285.5 | 128.4 | 118.8 | 129.1 | 130.9 | 203.3 | 231.7 |
| CD83 | 277.2 | 342.8 | 185.5 | 145.3 | 178.4 | 157.6 | 273.7 | 441.2 |
| CD83 | 185.3 | 280.4 | 140.7 | 98.8 | 101.7 | 114.6 | 166.3 | 250.7 |
| CD84 | 134.2 | 167.4 | 99.7 | 86.4 | 92.5 | 97.1 | 118.3 | 166 |
| CD86 | 148.2 | 187.5 | 98.4 | 136.5 | 118.4 | 160.6 | 134.7 | 168.2 |
| CD86 | 130 | 149.9 | 132.5 | 387.8 | 335.4 | 420.8 | 127.9 | 129.4 |
| CD86 | 76.7 | 90.8 | 101.9 | 94 | 90.1 | 85.2 | 81.8 | 75 |
| CD8A | 100.1 | 103.4 | 91.8 | 85.3 | 80.5 | 82 | 96.5 | 95 |
| CD8A | 96.3 | 101.1 | 96.2 | 90.1 | 86.8 | 97.1 | 91.1 | 106.7 |
| CD8A | 80.9 | 95.8 | 101.3 | 86.6 | 80.6 | 93.7 | 82.5 | 96.5 |
| CD8B | 83.5 | 100.4 | 86.3 | 82.1 | 82 | 77.5 | 93.1 | 94.2 |
| CD8B1 | 94.5 | 112.4 | 92 | 93.3 | 93.4 | 83.7 | 104.4 | 107.5 |

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|----------|---------|---------|---------|--------|--------|--------|---------|---------|
| CD8B1 | 76.7 | 85.9 | 96 | 87.9 | 82.8 | 88.7 | 80.7 | 85.4 |
| CD8B1 | 78.1 | 81.6 | 94.9 | 88.1 | 87.3 | 86.7 | 74.3 | 81.3 |
| CD9 | 117.6 | 119.2 | 101.1 | 99.2 | 100.1 | 109.7 | 120.4 | 131.1 |
| CD96 | 88.9 | 93.2 | 90.7 | 76 | 82.4 | 91.8 | 90.9 | 96.1 |
| CD96 | 99.4 | 109 | 88.3 | 97.5 | 83.3 | 86.3 | 88.9 | 107.9 |
| CD97 | 152.7 | 163.4 | 125.7 | 113.9 | 105.4 | 137.3 | 128.5 | 152.3 |
| CD97 | 1671.2 | 2054.6 | 1511.4 | 1013 | 804.6 | 833.8 | 1263.1 | 1474.5 |
| CD99 | 801.6 | 1119.4 | 424.6 | 453.2 | 379.8 | 498 | 786.4 | 1115 |
| CD99L2 | 330 | 478.5 | 264.4 | 309.5 | 230.7 | 350.7 | 367.4 | 608.2 |
| CD99L2 | 2563.3 | 3195.4 | 2164.2 | 2753.7 | 2192.6 | 2805.3 | 2183.7 | 2643.4 |
| CDA | 229.9 | 295.9 | 178.1 | 124.4 | 109.2 | 126.4 | 224 | 267.3 |
| CDADC1 | 108.4 | 115.7 | 108.1 | 104.4 | 93.7 | 104.4 | 105.3 | 140.7 |
| CDAN1 | 467.5 | 448.2 | 365.3 | 389.7 | 295.9 | 411.7 | 349.1 | 470.3 |
| CDAN1 | 6472.3 | 8058.3 | 2445.2 | 4196.7 | 4271.7 | 3647.3 | 6872.2 | 5805.3 |
| CDC14A | 106.8 | 116.3 | 105.3 | 99.3 | 91.4 | 99.6 | 107.6 | 108 |
| CDC14A | 126.3 | 126.3 | 99.1 | 88.4 | 89.9 | 80.7 | 101.1 | 118.8 |
| CDC14A | 80.6 | 85.3 | 101.5 | 76.2 | 88.6 | 96.5 | 85.1 | 80.6 |
| CDC14A | 109.7 | 119.1 | 89.4 | 92 | 98.1 | 99.1 | 89 | 134.5 |
| CDC14B | 175.2 | 215.5 | 141.4 | 116.2 | 105.6 | 145.9 | 176 | 227.5 |
| CDC14B | 338.5 | 372.8 | 349.1 | 360.2 | 239.3 | 473.4 | 326.5 | 485.8 |
| CDC14B | 181.1 | 238.4 | 210.6 | 3277.5 | 2556.4 | 262.9 | 356.4 | 187.9 |
| CDC16 | 3658.9 | 5005.2 | 1537.8 | 1199.3 | 933.4 | 1565.2 | 3124.2 | 3496.8 |
| CDC16 | 2025.9 | 2472.1 | 692.5 | 536.6 | 443 | 833.8 | 1623 | 1933.9 |
| CDC16 | 3271.7 | 4259.1 | 2306.2 | 1778.9 | 1448.7 | 2387.9 | 3020 | 3256.8 |
| CDC2 | 2802 | 3525.9 | 1106.8 | 689.7 | 573.3 | 955.7 | 1915.9 | 2629.2 |
| CDC2 | 438.9 | 624.4 | 227.9 | 193.5 | 170.4 | 233.2 | 335.7 | 530.4 |
| CDC20 | 18354.6 | 20738.2 | 9863.5 | 6687.2 | 5588.9 | 6211.7 | 14822.7 | 12412.5 |
| CDC23 | 1616.7 | 1991.7 | 881.5 | 1176.2 | 775.3 | 1385.1 | 1325.5 | 2197.4 |
| CDC25A | 913 | 1211.9 | 753.5 | 475.4 | 349.6 | 590.2 | 731 | 932.1 |
| CDC25A | 247.1 | 279.2 | 162 | 186.3 | 151.8 | 147.6 | 175.4 | 248.6 |
| CDC25B | 448.5 | 543.7 | 619.3 | 384.9 | 344.2 | 495.4 | 424.9 | 763.4 |
| CDC25C | 539 | 729.7 | 363.2 | 287.7 | 257.9 | 274.6 | 408.7 | 486.5 |
| CDC25C | 573 | 728.2 | 304.3 | 221.8 | 188.9 | 301.4 | 466.6 | 530.8 |
| CDC25C | 411.5 | 598.3 | 309.3 | 228.3 | 216.1 | 295.5 | 310.6 | 386 |
| CDC26 | 3417.4 | 4247 | 1695.9 | 1128.9 | 797.7 | 1027.3 | 3169.5 | 4160.1 |
| CDC27 | 100.9 | 113.3 | 103.3 | 93.4 | 93.3 | 93.2 | 101.4 | 110.2 |
| CDC2L1 | 69.9 | 78.8 | 85.9 | 77.3 | 78.5 | 84.5 | 77.3 | 79.8 |
| CDC2L2 | 181.8 | 210.9 | 96.4 | 113.7 | 97.6 | 85.1 | 160.5 | 197.1 |
| CDC2L5 | 515.4 | 727.4 | 312 | 318.9 | 313 | 365.8 | 445.2 | 534.1 |
| CDC2L5 | 593.5 | 850.3 | 388.6 | 479 | 413.2 | 534.1 | 564.9 | 653.1 |
| CDC2L6 | 1460.3 | 2418.1 | 1118.4 | 1812.3 | 1679.1 | 2045.8 | 1656.8 | 1546.4 |
| CDC34 | 396.3 | 508.3 | 256.7 | 165.1 | 152.2 | 164.6 | 398.3 | 647.3 |
| CDC37 | 13230.3 | 15273.8 | 12258.4 | 9090.9 | 8471.4 | 8366.4 | 11101.3 | 11487.6 |
| CDC37L1 | 96.8 | 114.9 | 93 | 87.6 | 83.3 | 91.9 | 105.5 | 114.8 |
| CDC40 | 1789.7 | 2423.9 | 1117.9 | 1581.4 | 1137.9 | 2341.4 | 1619.8 | 2175.8 |
| CDC42 | 109.8 | 141.5 | 94.8 | 91.7 | 84.4 | 85.5 | 119.3 | 141.2 |
| CDC42 | 78.8 | 80.3 | 92.5 | 85.2 | 84.1 | 80.8 | 72.6 | 77 |
| CDC42 | 536.3 | 805.7 | 319.6 | 234.6 | 197.4 | 234.9 | 434.4 | 536 |
| CDC42 | 1385.3 | 1695.1 | 467.5 | 398.9 | 303.8 | 350.5 | 1282.2 | 2176.6 |
| CDC42BPA | 171.3 | 222.9 | 135.2 | 96 | 90 | 92.2 | 199.2 | 205.2 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| CDC42BPA | 97.4 | 103.1 | 84 | 79.8 | 77.2 | 84.2 | 84.3 | 101.7 |
| CDC42BPB | 93.9 | 128 | 122.4 | 133.3 | 128.2 | 185.5 | 106.4 | 136.8 |
| CDC42BPG | 83.5 | 98.6 | 85.8 | 77.6 | 78.6 | 84.8 | 86.5 | 92 |
| CDC42EP1 | 110.3 | 138 | 99.7 | 92.8 | 83.6 | 83.1 | 114.2 | 124.3 |
| CDC42EP1 | 172.3 | 246.8 | 134.6 | 99.5 | 100.7 | 105.3 | 171.6 | 200.6 |
| CDC42EP2 | 94.1 | 123.4 | 120.5 | 98.6 | 87.8 | 88.1 | 112.8 | 128.2 |
| CDC42EP3 | 274.8 | 406.1 | 203.8 | 143.9 | 126.8 | 149.5 | 258.8 | 330.8 |
| CDC42EP4 | 457.8 | 539.3 | 495.8 | 709.4 | 673.3 | 690.7 | 567.2 | 659.9 |
| CDC42EP5 | 88.5 | 97.7 | 106.7 | 81.3 | 86.3 | 84.5 | 101.5 | 100 |
| CDC42SE1 | 606 | 769.3 | 457.5 | 241.3 | 204.3 | 242.6 | 476.3 | 922.8 |
| CDC42SE1 | 248.1 | 315 | 153.8 | 139.6 | 108.1 | 126 | 212.2 | 321.3 |
| CDC42SE2 | 355.9 | 435.7 | 128.7 | 150.6 | 118.9 | 160.3 | 225 | 337.8 |
| CDC42SE2 | 1323.1 | 1688.4 | 715.8 | 1141.2 | 783.4 | 1192.4 | 1189.4 | 1541.9 |
| CDC45L | 3729.2 | 4619.6 | 2464.7 | 2639.5 | 2064 | 3163.1 | 2374 | 2424.8 |
| CDC5L | 1068.9 | 1317 | 431.5 | 500.1 | 383.4 | 1009.7 | 875 | 1918.4 |
| CDC6 | 153.2 | 207.8 | 147.8 | 122.2 | 114.3 | 135.7 | 145.3 | 178.7 |
| CDC7 | 715.6 | 735.6 | 242 | 318.6 | 249.7 | 304.3 | 495.6 | 814.3 |
| CDC73 | 112.1 | 155.1 | 94.6 | 101.4 | 99.2 | 102 | 109.5 | 126.7 |
| CDC91L1 | 837.8 | 933.8 | 349.6 | 315.2 | 302.3 | 290.6 | 646.5 | 708.1 |
| CDCA1 | 376 | 529.3 | 147 | 142.4 | 161.1 | 140.3 | 250.4 | 293.9 |
| CDCA2 | 807.1 | 1091.5 | 590.4 | 340.8 | 315.1 | 576 | 669 | 838.5 |
| CDCA3 | 601.2 | 726.7 | 300.4 | 224.9 | 200.5 | 242.4 | 555.8 | 974.1 |
| CDCA4 | 157.5 | 207.9 | 121.6 | 108.6 | 95.2 | 117.8 | 144.9 | 210 |
| CDCA4 | 863.9 | 1299.2 | 628.1 | 393.6 | 356.1 | 520 | 728.7 | 983.8 |
| CDCA4 | 1102.4 | 1439.3 | 504.7 | 284.3 | 266.9 | 315.7 | 950.4 | 1006.7 |
| CDCA5 | 3270.7 | 3660 | 2708.3 | 1728.6 | 1521 | 1925.8 | 2386.1 | 3777 |
| CDCA7 | 6646 | 9032.2 | 4805.2 | 3416.2 | 2477.8 | 3272.4 | 3576.5 | 3851.8 |
| CDCA7 | 125.2 | 124.5 | 98.1 | 89.9 | 81 | 83.4 | 86.1 | 106.3 |
| CDCA7L | 784.4 | 1053.8 | 490.2 | 329.6 | 278.7 | 385 | 441.9 | 621.8 |
| CDCA8 | 987.9 | 1328.8 | 765.4 | 585.4 | 531.1 | 688.5 | 822.1 | 1269.1 |
| CDCP1 | 99.2 | 116.4 | 108.9 | 109.2 | 104.9 | 91.1 | 95.9 | 97.8 |
| CDCP1 | 98.5 | 102.1 | 82.9 | 98.6 | 91.4 | 89.7 | 108.2 | 102 |
| CDCP1 | 96.4 | 99.9 | 91.9 | 90.1 | 79.7 | 85.1 | 83.9 | 93.1 |
| CDCP2 | 80.4 | 95.9 | 97.5 | 85 | 88.9 | 89.7 | 82.7 | 84.2 |
| CDGAP | 91.3 | 101.5 | 92.1 | 85.1 | 78.1 | 79.2 | 88 | 112.2 |
| CDH1 | 82.6 | 84.5 | 91.2 | 88.7 | 89.6 | 88.1 | 80.9 | 85 |
| CDH10 | 83.5 | 90.4 | 94.3 | 96.7 | 86 | 77 | 83.4 | 88.5 |
| CDH11 | 94.1 | 100.5 | 114 | 100.9 | 104.4 | 92.7 | 101.8 | 107.6 |
| CDH12 | 68.5 | 79.9 | 80.8 | 83.6 | 80.5 | 80.7 | 72.1 | 81.7 |
| CDH12P | 103.4 | 110.1 | 101.8 | 93.5 | 85.2 | 85.1 | 103 | 135.4 |
| CDH13 | 84.1 | 83.7 | 93.9 | 79.1 | 83.7 | 84.4 | 80.1 | 84.6 |
| CDH15 | 109.4 | 133.5 | 98.5 | 112.1 | 100.3 | 119.6 | 131.9 | 141.6 |
| CDH16 | 92 | 94.6 | 107.5 | 114.1 | 88.7 | 106.9 | 87.1 | 80.3 |
| CDH17 | 80.7 | 89 | 94.6 | 90.6 | 77.9 | 82.6 | 83.3 | 87.9 |
| CDH18 | 79.3 | 82.9 | 79.9 | 75 | 69.7 | 77.2 | 82.2 | 80.1 |
| CDH19 | 77.9 | 98.9 | 90 | 72.3 | 84.4 | 88.1 | 82.9 | 90.8 |
| CDH2 | 956.2 | 1143.2 | 595.5 | 692.7 | 560.7 | 573.6 | 734 | 954.1 |
| CDH20 | 147.1 | 187.9 | 104.4 | 96.2 | 94.6 | 87.5 | 152.5 | 167.6 |
| CDH22 | 91.4 | 103.3 | 84.3 | 88.2 | 90.7 | 81.9 | 98.3 | 93.7 |
| CDH23 | 159.7 | 190.4 | 117.2 | 133 | 122.6 | 132.1 | 152 | 169.9 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| CDH23 | 143.1 | 164.9 | 108.1 | 103.8 | 98.8 | 119.4 | 119.4 | 140.5 |
| CDH23 | 100.7 | 119.4 | 119 | 127 | 117.6 | 152.2 | 99.1 | 103.3 |
| CDH24 | 99.7 | 116.7 | 96.2 | 90.5 | 78.2 | 86.1 | 104 | 128.5 |
| CDH24 | 126.8 | 124.6 | 94.1 | 87.9 | 95.5 | 98.8 | 112.5 | 138.4 |
| CDH24 | 82.7 | 83.7 | 83.1 | 81.6 | 82.6 | 79.1 | 82.8 | 90.7 |
| CDH26 | 91 | 108.2 | 109.5 | 97.3 | 103.5 | 105.2 | 98.8 | 95.3 |
| CDH26 | 103 | 118.7 | 92.4 | 108.8 | 83 | 86.9 | 103.3 | 125 |
| CDH3 | 89.4 | 88.9 | 94.8 | 94.9 | 85.4 | 86.3 | 86.4 | 91.1 |
| CDH4 | 88.4 | 109.6 | 92 | 80.4 | 86.9 | 86.9 | 93.8 | 112.2 |
| CDH5 | 82.5 | 90.5 | 91.7 | 86.5 | 88.1 | 84.3 | 111.7 | 128 |
| CDH6 | 81.6 | 94.4 | 73.2 | 78.4 | 81.5 | 83.5 | 77.6 | 87.1 |
| CDH7 | 148.1 | 169.4 | 95.4 | 92.5 | 90.2 | 102.3 | 137 | 141.3 |
| CDH7 | 87.7 | 112.7 | 91.2 | 94 | 85 | 89.4 | 97.7 | 103.2 |
| CDH7 | 86.4 | 105 | 90 | 95.1 | 90.9 | 91.8 | 84.2 | 96.7 |
| CDH8 | 84 | 91 | 76.8 | 75.6 | 77.2 | 81.8 | 86.7 | 97.5 |
| CDH9 | 99.4 | 126.8 | 129.6 | 113.9 | 114 | 119.2 | 103 | 104.7 |
| CDIPT | 245.9 | 254.9 | 128.1 | 112.6 | 111.8 | 154.1 | 264.8 | 359.1 |
| CDK10 | 1674.9 | 1529.9 | 1179.2 | 1113.2 | 1293.4 | 1504.7 | 924.9 | 890.8 |
| CDK10 | 130 | 185.1 | 115.9 | 99.1 | 89.4 | 122.1 | 126.8 | 163.7 |
| CDK2 | 530.7 | 652.1 | 243.4 | 231.8 | 217 | 230.1 | 385.5 | 444.6 |
| CDK2 | 1517.4 | 2123.3 | 1015 | 869.8 | 816 | 1251.5 | 1132.5 | 1697.6 |
| CDK2AP2 | 341.3 | 425.7 | 202.6 | 123.2 | 113.4 | 133.9 | 351.9 | 503.9 |
| CDK3 | 113.2 | 124.4 | 109.7 | 105 | 103.2 | 116.1 | 104.6 | 112.8 |
| CDK4 | 3732.9 | 4581.1 | 1779.5 | 1373.8 | 1152.3 | 1438.7 | 3339.1 | 4193.3 |
| CDK5 | 550.1 | 768.3 | 285.1 | 311.2 | 258.5 | 330 | 379.7 | 502.3 |
| CDK5R1 | 111.3 | 110 | 92.3 | 96.9 | 100.2 | 108.9 | 98.5 | 160.2 |
| CDK5R2 | 92.9 | 106.2 | 99.8 | 88.7 | 87.7 | 90.3 | 97.7 | 101.9 |
| CDK5RAP1 | 872.1 | 1100 | 491.6 | 525 | 477.1 | 655.8 | 693.9 | 875.3 |
| CDK5RAP1 | 172.2 | 177 | 116.6 | 102.1 | 92.8 | 89.1 | 150.2 | 154.7 |
| CDK5RAP2 | 207.7 | 297.8 | 163.7 | 163.8 | 164.2 | 245.5 | 455.3 | 637.7 |
| CDK5RAP2 | 1101.3 | 1626 | 918 | 961.5 | 917.7 | 1312.3 | 1452.4 | 1672.4 |
| CDK5RAP2 | 99.6 | 92.2 | 109.7 | 107.8 | 116.7 | 137.1 | 95.7 | 104.9 |
| CDK5RAP3 | 1401.8 | 1468.1 | 1213.9 | 1154.1 | 1340.3 | 1866 | 841.2 | 1180.7 |
| CDK5RAP3 | 496.8 | 478.3 | 310 | 178.6 | 221.5 | 191.7 | 272.2 | 492.8 |
| CDK5RAP3 | 1452.8 | 1556.7 | 1261.9 | 1203.2 | 1365.7 | 1819 | 1064.8 | 1341.7 |
| CDK6 | 2158.4 | 3887 | 1355.2 | 2066 | 1812.3 | 2365.1 | 2789.6 | 3242.7 |
| CDK7 | 780.9 | 998.7 | 296.4 | 267.9 | 281.4 | 422.1 | 642.7 | 986.4 |
| CDK8 | 179.8 | 238.1 | 137.9 | 150.2 | 131 | 169.9 | 165 | 217.7 |
| CDK9 | 605.6 | 749.7 | 398 | 374.4 | 353.3 | 438.6 | 490.5 | 626.5 |
| CDKAL1 | 196.5 | 276.7 | 160.3 | 163.7 | 125.2 | 157.5 | 165.5 | 188.2 |
| CDKL1 | 128.1 | 165.1 | 119.7 | 108 | 99.4 | 110.4 | 125.5 | 136.2 |
| CDKL2 | 75.2 | 90.8 | 79.8 | 79.8 | 71.7 | 78.4 | 79.7 | 88.7 |
| CDKL3 | 348.4 | 439.7 | 223.4 | 206.7 | 173.3 | 242.2 | 354.4 | 509.1 |
| CDKL4 | 95.1 | 102 | 99.8 | 105.1 | 92.7 | 96.9 | 88.4 | 105.7 |
| CDKL5 | 74.7 | 84.9 | 88.5 | 93.6 | 83 | 83.2 | 88.7 | 95.8 |
| CDKL5 | 103.2 | 100.9 | 97.4 | 104 | 81.8 | 91.4 | 102.6 | 100.1 |
| CDKL5 | 83.6 | 91.7 | 89.8 | 85.2 | 89.2 | 93.9 | 89.9 | 87 |
| CDKN1A | 362 | 393.3 | 214 | 269.9 | 244.1 | 294.5 | 533.9 | 605.7 |
| CDKN1A | 98.5 | 134.5 | 101.8 | 80.7 | 92.4 | 88.5 | 105.1 | 114.9 |
| CDKN1B | 363.6 | 438.5 | 247.6 | 256.7 | 238.5 | 417.8 | 319.7 | 510.7 |

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| CDKN1C | 96 | 110.3 | 93.6 | 110.1 | 89.8 | 113.7 | 104.3 | 122.8 |
| CDKN2A | 119.9 | 165.2 | 103.2 | 95.5 | 89.6 | 95.7 | 125.8 | 141 |
| CDKN2A | 80.4 | 92.9 | 105.3 | 96.2 | 85.8 | 94.1 | 78.4 | 97.6 |
| CDKN2A | 98.9 | 108.3 | 97.5 | 83.1 | 89.5 | 94.2 | 94.9 | 95.4 |
| CDKN2B | 193 | 235.5 | 127.6 | 127.2 | 118.4 | 128 | 161.2 | 176.6 |
| CDKN2B | 86.3 | 88.3 | 113.8 | 85.9 | 88.4 | 90.8 | 81.4 | 91.5 |
| CDKN2C | 1300.4 | 1644.9 | 799.7 | 846.1 | 811.8 | 1486.9 | 858.4 | 930.1 |
| CDKN2C | 117 | 124.4 | 92.3 | 81.9 | 79.2 | 92.8 | 114.6 | 122.3 |
| CDKN2C | 237.5 | 301.6 | 130.3 | 109.8 | 101.3 | 95.6 | 286 | 305.4 |
| CDKN2D | 116.2 | 119.9 | 99.8 | 93.1 | 85.3 | 96.1 | 111.7 | 131.3 |
| CDKN2D | 301.6 | 392.7 | 245.7 | 153.9 | 183.2 | 182.9 | 287.4 | 425.1 |
| CDKN3 | 2738.3 | 3298.3 | 1005.9 | 613 | 521.1 | 712.3 | 2186.1 | 3667.7 |
| CDO1 | 297.9 | 333.5 | 156.8 | 127.4 | 110.7 | 125.1 | 241.4 | 377.9 |
| CDON | 104.6 | 106.3 | 94.9 | 78.9 | 87.4 | 92.8 | 103.2 | 100 |
| CDON | 92.2 | 124.1 | 88.2 | 94.3 | 80.3 | 104.9 | 113.8 | 116.7 |
| CDR1 | 95.8 | 112.6 | 108.4 | 96.9 | 86 | 98.9 | 91.9 | 95.4 |
| CDR2 | 590.3 | 799.4 | 326 | 283.2 | 221 | 327.6 | 529.9 | 698.7 |
| CDR2L | 378.3 | 455.7 | 284.6 | 257 | 224.1 | 239.5 | 327.1 | 359.7 |
| CDRT1 | 86.1 | 93.8 | 94.7 | 91 | 88 | 93.2 | 87.9 | 89.9 |
| CDRT15P | 138.3 | 155.6 | 97.1 | 94.7 | 76.2 | 87.1 | 132.7 | 142 |
| CDS1 | 203.3 | 278.4 | 149.5 | 113 | 110.1 | 118.6 | 192.5 | 241.2 |
| CDS2 | 178.9 | 230.4 | 185 | 183.5 | 159.1 | 170.2 | 210.8 | 330.5 |
| CDSN | 95.9 | 118.1 | 87.8 | 86.3 | 87.8 | 89.4 | 90.4 | 117.8 |
| CDT1 | 2074.7 | 2737.4 | 1144.3 | 571.3 | 544.7 | 486.2 | 1609.8 | 1053.7 |
| CDV3 | 1563.5 | 2264.9 | 638.7 | 751.3 | 687.8 | 1467.9 | 1513.7 | 2808.5 |
| CDV3 | 2035.1 | 2872.5 | 888.2 | 1180.9 | 791.6 | 1687.7 | 1875.2 | 2881.1 |
| CDX1 | 83.4 | 91.5 | 86.1 | 86 | 76.9 | 86 | 88.7 | 87.8 |
| CDX2 | 135.6 | 146.7 | 86.3 | 81.7 | 76.2 | 87.2 | 111 | 124.2 |
| CDX4 | 85.8 | 117 | 97.9 | 82.3 | 88.1 | 91.3 | 95.7 | 108 |
| CDY1 | 102.9 | 106.2 | 94.4 | 86.2 | 83.5 | 88.5 | 100.4 | 110.7 |
| CDY1 | 87 | 89.5 | 88.8 | 77.1 | 85.1 | 88.5 | 79.5 | 98.2 |
| CDY1B | 78 | 90.3 | 102.3 | 93.5 | 101.2 | 91.9 | 82.3 | 84.2 |
| CDY2A | 72.7 | 81.9 | 92.9 | 82.2 | 80.7 | 88.7 | 73.8 | 79.5 |
| CDY2B | 118.4 | 137 | 96.4 | 86 | 83.2 | 82.7 | 108.6 | 122.2 |
| CDYL | 193.6 | 252.2 | 133.3 | 128.3 | 124.9 | 154.6 | 167.3 | 247 |
| CDYL | 78.6 | 92 | 96.1 | 79.5 | 81 | 78.6 | 90 | 87.6 |
| CDYL2 | 102 | 107.6 | 99.6 | 92.4 | 101.9 | 87.9 | 97.7 | 109.3 |
| CEACAM1 | 140.4 | 159.2 | 112.7 | 119.3 | 100 | 109.4 | 163.3 | 171.7 |
| CEACAM1 | 138.2 | 135.2 | 103.8 | 94.9 | 95 | 102.3 | 125.7 | 143.5 |
| CEACAM1 | 86.6 | 95.6 | 88.1 | 81 | 80.1 | 96 | 91.9 | 110.6 |
| CEACAM19 | 116.6 | 133.7 | 99.4 | 91.2 | 90.7 | 102.6 | 115.1 | 140 |
| CEACAM20 | 92.2 | 103.3 | 84.1 | 80.3 | 88.1 | 82.7 | 96 | 98.4 |
| CEACAM21 | 119.7 | 128.7 | 120.1 | 109.1 | 103.6 | 99.8 | 118.4 | 124.7 |
| CEACAM3 | 89 | 117.7 | 96.7 | 86.8 | 88.5 | 92.8 | 103.6 | 113.7 |
| CEACAM4 | 118.8 | 144.6 | 109.5 | 114.1 | 89.8 | 102.7 | 120.8 | 129.2 |
| CEACAM5 | 105.5 | 114.8 | 90.9 | 97.4 | 84.8 | 99.1 | 97.2 | 107.7 |
| CEACAM6 | 435.5 | 535.1 | 353.3 | 181.5 | 138.7 | 189.2 | 335.3 | 678.4 |
| CEACAM7 | 78.8 | 75.4 | 102.2 | 92.4 | 88.3 | 99.4 | 78.9 | 79.4 |
| CEACAM8 | 72.3 | 89.5 | 98.3 | 82.8 | 77.2 | 83.7 | 76.6 | 76.4 |
| CEBPA | 4194.9 | 5271.9 | 4896 | 3509.9 | 2929.3 | 6341.4 | 4925.4 | 10897.5 |

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| CEBPB | 1846.4 | 2240.7 | 1540.8 | 2040.1 | 1640.7 | 2567.6 | 1774.6 | 2137.3 |
| CEBPD | 1908 | 2441.5 | 1577.2 | 1519.2 | 1103.7 | 1892.5 | 1680.4 | 3026 |
| CEBPE | 168.7 | 191.7 | 147.3 | 118.3 | 109.7 | 132.8 | 166.4 | 159.9 |
| CEBPG | 1251.5 | 1507.2 | 829 | 843.8 | 692.3 | 1023.3 | 1054.4 | 1956.8 |
| CEBPZ | 3311.3 | 4031.7 | 1528.1 | 1681.3 | 1215 | 2959.4 | 2716.2 | 4071.3 |
| CECR1 | 140.6 | 156.3 | 109.8 | 130.3 | 127.4 | 104.4 | 117 | 104.9 |
| CECR1 | 632 | 827.5 | 782.4 | 1828.1 | 1459.8 | 1908.5 | 577.9 | 1074.2 |
| CECR1 | 97.6 | 133.2 | 95.7 | 85.8 | 79.6 | 92 | 98.4 | 110.3 |
| CECR5 | 241.8 | 299 | 190 | 186.9 | 174.7 | 267.7 | 202.5 | 277.8 |
| CECR5 | 3363.6 | 4421.8 | 1793.9 | 2159.2 | 1521.2 | 2353 | 2458.7 | 2362.4 |
| CECR6 | 337.6 | 393.3 | 387.4 | 350.9 | 286.1 | 447.5 | 262.2 | 547.6 |
| CEECAM1 | 172 | 230 | 180.7 | 144.4 | 133 | 178 | 161.4 | 252.6 |
| CEI | 105 | 105.2 | 104.6 | 89 | 89.4 | 100.5 | 90.2 | 97.7 |
| CEL | 130.1 | 118.1 | 126.3 | 106.3 | 95.8 | 115.7 | 112.9 | 202.7 |
| CELSR1 | 214.2 | 224.9 | 141.4 | 109 | 110.9 | 123.3 | 209.9 | 211.7 |
| CELSR2 | 160.9 | 209.8 | 123.3 | 121.8 | 115.6 | 131.3 | 164.5 | 262.9 |
| CELSR3 | 137.4 | 161.5 | 131.5 | 102.5 | 103.3 | 123.3 | 127.8 | 163.4 |
| CEMP1 | 123 | 148.6 | 98.9 | 85.8 | 86.2 | 87.3 | 127.7 | 156.5 |
| CENPA | 2126.7 | 2825.1 | 1141.7 | 799.6 | 683.3 | 902.3 | 1811.6 | 2215.9 |
| CENPA | 1081.2 | 1405.8 | 519.9 | 315.1 | 285.6 | 345 | 823.7 | 928.9 |
| CENPB | 4574.5 | 5534.4 | 2646.5 | 2065.4 | 1660.5 | 2067 | 3996.2 | 3792.9 |
| CENPC1 | 185.4 | 206.4 | 105.4 | 108 | 93.5 | 105.9 | 161.9 | 226.6 |
| CENPE | 441.4 | 510.4 | 165.2 | 177.8 | 167.2 | 286.1 | 330.3 | 385.8 |
| CENPF | 600.9 | 869.6 | 560.2 | 629 | 618.7 | 993.4 | 485.8 | 472 |
| CENPH | 95.8 | 118.2 | 102.7 | 100.2 | 90.3 | 86.8 | 103 | 79.7 |
| CENPI | 83.5 | 93 | 97.9 | 85.7 | 81.1 | 80.7 | 86.6 | 87.9 |
| CENPJ | 575.9 | 613.7 | 222.5 | 229.5 | 251 | 333.3 | 621.6 | 1018.5 |
| CENPM | 1972.6 | 2600.7 | 1318.8 | 1043 | 861.2 | 821.2 | 1608.6 | 1903.5 |
| CENPM | 861.3 | 1169.8 | 482.1 | 327.5 | 318.9 | 275.6 | 657.9 | 679.4 |
| CENPO | 134.3 | 167 | 125.6 | 113.1 | 109.5 | 111.1 | 138.6 | 151.2 |
| CENTA1 | 3892.7 | 4568.4 | 3149.6 | 2500.8 | 2285.7 | 2936.3 | 3296.5 | 3472.8 |
| CENTA2 | 740.8 | 1041.6 | 439.9 | 363.9 | 289.6 | 339.7 | 495.3 | 573.1 |
| CENTB1 | 105 | 115 | 103.8 | 183 | 175.5 | 253.1 | 96.3 | 121.2 |
| CENTB2 | 356.5 | 413.7 | 161.1 | 264.1 | 200.3 | 308 | 382 | 636.8 |
| CENTB5 | 99.9 | 115.8 | 102.6 | 97.3 | 90.3 | 93.7 | 107.8 | 109.5 |
| CENTD1 | 261.2 | 301.3 | 149.8 | 146.2 | 131.5 | 141.2 | 281.8 | 413.3 |
| CENTD1 | 86.3 | 85.6 | 77.7 | 85.1 | 74.4 | 81.1 | 82.9 | 87.4 |
| CENTD2 | 108.7 | 119 | 93.2 | 85.5 | 77.7 | 74.7 | 100.3 | 136.4 |
| CENTD2 | 159.6 | 192.8 | 157.1 | 170.1 | 143.5 | 246.2 | 130.7 | 189.8 |
| CENTD3 | 240.9 | 250.5 | 197.9 | 206.5 | 186.9 | 202.3 | 181.9 | 207.3 |
| CENTG1 | 92 | 106.5 | 90.5 | 84 | 87.5 | 87.6 | 94.5 | 104.7 |
| CENTG2 | 89 | 110.6 | 90.1 | 94.9 | 88.7 | 94.3 | 89.9 | 105.6 |
| CENTG2 | 253 | 299.5 | 186.2 | 222.4 | 186.5 | 240.1 | 220.6 | 309.5 |
| CENTG2 | 81 | 101.3 | 97.3 | 87.9 | 85.6 | 80.1 | 77.4 | 93.3 |
| CENTG3 | 126.9 | 149.3 | 101.6 | 104.6 | 95.4 | 95.7 | 117.6 | 132.3 |
| CENTG3 | 188.3 | 232.1 | 130.7 | 110.7 | 107.4 | 103.9 | 181.7 | 223.8 |
| CENTG3 | 235.4 | 300.8 | 307.5 | 374.1 | 383.3 | 545.2 | 217.2 | 530.9 |
| CEP1 | 641.5 | 856.7 | 490.1 | 534 | 489.4 | 963.4 | 432 | 608.8 |
| CEP135 | 667.3 | 769 | 528.2 | 518.3 | 495.4 | 755.9 | 513.6 | 696.4 |
| CEP152 | 363.3 | 379.2 | 254.8 | 284 | 287.5 | 448.2 | 248.5 | 445.9 |

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|--------|---------|---------|--------|--------|--------|---------|---------|---------|
| CEP164 | 182.2 | 209.6 | 305.9 | 278.1 | 250.5 | 374.1 | 175.1 | 271.8 |
| CEP170 | 133.7 | 191.2 | 142.5 | 142.8 | 134.8 | 146 | 120.8 | 147.1 |
| CEP170 | 130.6 | 176.6 | 101.6 | 107.3 | 90.5 | 87.9 | 119.2 | 128.2 |
| CEP192 | 620.3 | 928.9 | 370.3 | 588.2 | 530.2 | 857.3 | 542.9 | 542.1 |
| CEP250 | 126.7 | 166.4 | 103.7 | 105.8 | 97.8 | 108.6 | 116.5 | 144.9 |
| CEP250 | 141.7 | 167.5 | 133.6 | 114.9 | 114.7 | 146 | 153.6 | 155.6 |
| CEP27 | 632.6 | 705.7 | 272.9 | 343.2 | 356.6 | 250.3 | 510.8 | 640.7 |
| CEP290 | 128 | 138 | 134.1 | 154.7 | 124.8 | 195.9 | 119.2 | 172.3 |
| CEP55 | 1074.6 | 1428.1 | 532.5 | 347.9 | 331.5 | 542.8 | 684.1 | 1339.9 |
| CEP57 | 209.5 | 228.1 | 150.9 | 128.6 | 132.3 | 172.4 | 163.2 | 384.7 |
| CEP63 | 1380.1 | 1649.6 | 788.8 | 1026.3 | 846.1 | 1519.4 | 975.8 | 1608.4 |
| CEP63 | 94.4 | 105.5 | 95.2 | 89.8 | 91.2 | 93.2 | 90 | 109.8 |
| CEP63 | 85.5 | 101.5 | 107.3 | 94.9 | 92.3 | 98.6 | 85.6 | 87.5 |
| CEP63 | 122.1 | 137.1 | 105.9 | 100.1 | 97.3 | 108.1 | 111.2 | 126.4 |
| CEP68 | 144 | 183.5 | 122.2 | 127.7 | 100.7 | 117.9 | 122.8 | 160.8 |
| CEP70 | 313.2 | 376.4 | 172.3 | 152.8 | 160.1 | 189.1 | 226.9 | 255.3 |
| CEP72 | 144.4 | 168.3 | 163.5 | 134 | 144.7 | 172.5 | 145.1 | 197.5 |
| CEP76 | 137.4 | 174 | 134.2 | 122.8 | 116.1 | 123.5 | 132.9 | 188.6 |
| CEPT1 | 153.2 | 156.5 | 98.6 | 98.4 | 95.7 | 88.5 | 127.6 | 137 |
| CEPT1 | 974.7 | 1161.3 | 280.6 | 169.6 | 156.2 | 173.5 | 529 | 781.7 |
| CEPT1 | 1697.9 | 2297.9 | 746.9 | 419.7 | 326.2 | 576.3 | 1367.8 | 2232.5 |
| CER1 | 93.4 | 105.4 | 104 | 85.6 | 80.3 | 83.4 | 98.8 | 99.2 |
| CERK | 892.8 | 1054.8 | 689 | 893.8 | 687.1 | 927.2 | 899.8 | 1338.8 |
| CERK | 758.7 | 879.9 | 366.6 | 444.2 | 358.6 | 443.4 | 636.6 | 1063.7 |
| CERK | 163.4 | 200.6 | 130.5 | 123.4 | 100.3 | 127.4 | 148.3 | 156.6 |
| CERKL | 106.8 | 143.7 | 109.5 | 93 | 93.9 | 96.9 | 93.9 | 122.8 |
| CERKL | 67.5 | 98.1 | 91 | 85.7 | 79.9 | 84.7 | 77.3 | 85.3 |
| CERKL | 85.2 | 101.6 | 106.8 | 89.6 | 85.2 | 87.5 | 83.7 | 98.4 |
| CERKL | 94.6 | 113.7 | 94.3 | 87.7 | 95.1 | 85.3 | 96.8 | 100.3 |
| CES1 | 2982.2 | 3501.9 | 1536.3 | 3395.8 | 2516.2 | 3652 | 3638.3 | 4796 |
| CES2 | 1813.2 | 2115.6 | 1185.3 | 863.4 | 748.7 | 712 | 1484.4 | 2355.2 |
| CES2 | 228.7 | 234.2 | 157.8 | 155.8 | 141.4 | 154.1 | 179.5 | 296.1 |
| CES3 | 124.3 | 119.2 | 96.6 | 94.6 | 89.2 | 100.6 | 111.3 | 128.5 |
| CES4 | 1129.7 | 1449.3 | 522.1 | 627.8 | 604.6 | 417.6 | 1085.8 | 1173.1 |
| CES7 | 98 | 126.9 | 93 | 89.5 | 86.7 | 89.1 | 97.8 | 107 |
| CESK1 | 75.2 | 81 | 79.6 | 82.2 | 82.5 | 86.1 | 78.4 | 87.9 |
| CETN1 | 81.5 | 97.5 | 94.1 | 86.6 | 78.2 | 79.2 | 86.3 | 86.3 |
| CETN2 | 2804.9 | 3658.8 | 2114.1 | 1700.1 | 1263.8 | 1778.8 | 2352.7 | 3539.6 |
| CETN3 | 101.8 | 111.2 | 100.5 | 86 | 80.4 | 84.5 | 110.4 | 117.5 |
| CETP | 188.8 | 231.8 | 146.9 | 163.9 | 145.8 | 190.4 | 174.6 | 192.8 |
| CFB | 90 | 93.2 | 95.9 | 105 | 108.5 | 116.3 | 85.8 | 90.3 |
| CFC1 | 81.2 | 96.5 | 97.5 | 82.6 | 83 | 89.2 | 82.9 | 89.1 |
| CFD | 11184.2 | 13777.4 | 6526.1 | 9733.4 | 7985.4 | 11803.3 | 10259.6 | 13854.9 |
| CFDP1 | 548.5 | 800.3 | 161.8 | 135.8 | 118.5 | 153.2 | 473.9 | 473.1 |
| CFH | 81.7 | 92.9 | 93.4 | 88.7 | 89.4 | 79.4 | 85.7 | 94.8 |
| CFH | 109.6 | 120.1 | 118.8 | 115.9 | 109.5 | 113.9 | 110.2 | 106.7 |
| CFH | 100.6 | 119.3 | 82.6 | 85.9 | 83.2 | 86.7 | 91.9 | 117.1 |
| CFHR1 | 105.2 | 118.5 | 118.6 | 98.6 | 76.5 | 83.1 | 106.3 | 113.7 |
| CFHR2 | 119.9 | 136.5 | 110.9 | 101.3 | 102.9 | 110.3 | 124.5 | 127 |
| CFHR3 | 88.2 | 82.4 | 86.7 | 92.8 | 81.2 | 92.6 | 87.4 | 85.8 |

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|---------|---------|---------|--------|--------|--------|--------|---------|---------|
| CFHR4 | 79.6 | 94.7 | 88.2 | 77.7 | 85.2 | 82 | 81 | 91.6 |
| CFHR5 | 111.8 | 126.4 | 95.8 | 84.1 | 82.7 | 77.2 | 108 | 116.4 |
| CFI | 120.2 | 135.9 | 99.1 | 75.7 | 81.3 | 89.3 | 111.8 | 127.9 |
| CFL1 | 10478.3 | 14410.5 | 7139.6 | 5508.4 | 4455.6 | 4674.6 | 10456.7 | 13270.5 |
| CFL2 | 139.3 | 154.1 | 99.7 | 93.8 | 83.2 | 80.8 | 101.2 | 128.2 |
| CFL2 | 80.9 | 85.8 | 89.3 | 81.5 | 87.5 | 84.9 | 80.5 | 84 |
| CFLAR | 488.4 | 647.8 | 226.4 | 433.3 | 453 | 352.8 | 454.9 | 624.8 |
| CFTR | 121.8 | 153.2 | 103.1 | 92.7 | 81.5 | 90 | 120.1 | 131.9 |
| CG018 | 187.8 | 246.5 | 119.5 | 146 | 133.9 | 193 | 187.4 | 304.5 |
| CG018 | 107.1 | 118.7 | 87.3 | 80 | 74.9 | 76 | 115.8 | 114.8 |
| CG018 | 170.7 | 226.2 | 120.1 | 186.6 | 145.5 | 192.4 | 199.8 | 288.7 |
| CGA | 110.5 | 138.9 | 96.7 | 83.1 | 75.8 | 85.3 | 116.8 | 131.1 |
| CGB | 122.9 | 131.1 | 114.1 | 96.3 | 93.7 | 96.5 | 116.8 | 111.8 |
| CGB1 | 84.4 | 100.9 | 107.4 | 94 | 91.2 | 101.1 | 94.4 | 94.5 |
| CGB2 | 75.8 | 82.7 | 83.2 | 88.4 | 78.5 | 82.6 | 78.2 | 64.9 |
| CGB5 | 95.2 | 86.1 | 90 | 89.1 | 89.7 | 93.4 | 92.3 | 88.8 |
| CGB7 | 124.7 | 138 | 91.8 | 78.6 | 87.9 | 81.1 | 116.1 | 138.4 |
| CGGBP1 | 1183.5 | 1490.9 | 717.7 | 580.6 | 498.3 | 573.4 | 1040.5 | 1260.4 |
| CGGBP1 | 83.9 | 95.9 | 89 | 89.4 | 77 | 79.7 | 81.1 | 88.5 |
| CGGBP1 | 2568.4 | 3272.6 | 1671.5 | 2100.1 | 1691.6 | 3123.1 | 2221.4 | 3166 |
| CGI-09 | 138.7 | 155.6 | 99.2 | 78.8 | 78.7 | 99.1 | 123.6 | 163.1 |
| CGI-115 | 2209.8 | 2722.6 | 1045.3 | 854.2 | 586.2 | 1058.4 | 1807.8 | 2920.1 |
| CGI-38 | 81.8 | 92 | 94 | 89.9 | 89.5 | 86.6 | 83.2 | 85.8 |
| CGI-38 | 88.4 | 102.6 | 94.9 | 82.5 | 78.9 | 82.9 | 94.2 | 99.1 |
| CGI-69 | 4942.1 | 5818 | 3581.6 | 3251.8 | 2502.9 | 2975 | 3941.4 | 5116.7 |
| CGI-96 | 1919.2 | 2624.3 | 1267.1 | 827.6 | 638.5 | 884.6 | 1579.5 | 2141 |
| CGI-96 | 629.2 | 803.5 | 189 | 156.5 | 153.2 | 169.1 | 484 | 615.3 |
| CGN | 122.4 | 137 | 116.8 | 106.1 | 97 | 94.6 | 103.5 | 115.1 |
| CGNL1 | 161 | 213 | 127.7 | 158 | 134 | 192.4 | 130 | 156 |
| CGREF1 | 97.3 | 113.9 | 93.1 | 90.6 | 95.2 | 99.3 | 95.6 | 104.2 |
| CGRRF1 | 346.6 | 411.9 | 189.8 | 167.9 | 144.5 | 174.7 | 376.9 | 536 |
| CH25H | 87.9 | 93.2 | 94.7 | 80.8 | 80.7 | 88.5 | 87.6 | 92.5 |
| CHAC1 | 149.6 | 214.1 | 118.6 | 98 | 91 | 95.7 | 164.7 | 190.7 |
| CHAC2 | 298.2 | 349.1 | 158 | 112.3 | 102.2 | 128 | 207.4 | 316.2 |
| CHAD | 102.3 | 126.1 | 102.7 | 87.8 | 94.5 | 96.3 | 110.8 | 97.2 |
| CHAF1A | 331.9 | 382.6 | 180.1 | 159.2 | 130 | 172.8 | 245.4 | 250.2 |
| CHAF1B | 918.4 | 1182.6 | 481.6 | 400.1 | 319.1 | 390.8 | 602.4 | 731.2 |
| CHAT | 142.8 | 171.2 | 117.7 | 96.7 | 105.8 | 101.2 | 127.5 | 162.9 |
| CHAT | 89.4 | 99.8 | 94.5 | 88.4 | 91 | 89 | 91.9 | 81.9 |
| CHAT | 75.4 | 88.2 | 89.8 | 93.4 | 77.4 | 83.3 | 81 | 85.7 |
| CHAT | 72 | 92.6 | 84 | 77.7 | 75 | 78.6 | 84.2 | 88.4 |
| CHCHD1 | 457.8 | 592.9 | 246.9 | 191.8 | 192.2 | 210.3 | 363.4 | 592.1 |
| CHCHD2 | 16186.1 | 18022.1 | 8073.8 | 6055 | 4842.7 | 6920.4 | 16798.5 | 18118.2 |
| CHCHD3 | 1484.7 | 1947 | 510.5 | 502.8 | 469.4 | 819.5 | 1167.8 | 1915.1 |
| CHCHD4 | 2129.1 | 3005.1 | 1136.6 | 936.2 | 746 | 1086 | 1566.6 | 1399.2 |
| CHCHD5 | 956.6 | 1237.5 | 837.2 | 626.8 | 466.5 | 669.3 | 911.5 | 1068.7 |
| CHCHD6 | 230.3 | 325.9 | 181.2 | 144.7 | 144.7 | 228.2 | 239.2 | 238.5 |
| CHCHD7 | 384.1 | 421.4 | 132.7 | 98 | 98.3 | 109.1 | 267.8 | 363.5 |
| CHCHD7 | 1000.1 | 1246.4 | 580.1 | 317.7 | 241.6 | 362.7 | 696.8 | 1091.6 |
| CHCHD8 | 487 | 621.8 | 326.3 | 240.2 | 184.6 | 247.6 | 400.4 | 461.5 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| CHD1 | 833.1 | 937.9 | 289.3 | 372.1 | 312.5 | 567.4 | 704.4 | 1054.9 |
| CHD1L | 821.9 | 1160.7 | 542.7 | 441.3 | 420.8 | 708 | 616.9 | 943.9 |
| CHD2 | 169.8 | 239.8 | 111.1 | 124.6 | 118.7 | 141 | 142.1 | 214.2 |
| CHD3 | 137.9 | 158.7 | 93.6 | 82.2 | 83.6 | 99.9 | 127.1 | 156.6 |
| CHD3 | 130 | 150.8 | 99.9 | 98.5 | 92.1 | 102.5 | 106.7 | 110.5 |
| CHD4 | 854.5 | 1244.4 | 1018.4 | 1132.2 | 1004.2 | 1197.2 | 741.6 | 1306.8 |
| CHD5 | 104 | 120.3 | 102.5 | 93.4 | 90.3 | 98.9 | 107.3 | 100.4 |
| CHD6 | 137 | 196.8 | 110.9 | 130.7 | 131.4 | 166.2 | 143.2 | 171.3 |
| CHD7 | 363.7 | 603 | 416 | 395.7 | 324 | 562.6 | 403.8 | 479.7 |
| CHD8 | 495.7 | 725.2 | 536.8 | 762.8 | 679.5 | 849.9 | 558.1 | 640.8 |
| CHD9 | 524.2 | 934.7 | 536.2 | 710.6 | 649.1 | 1345.4 | 691.7 | 879.7 |
| CHDH | 78.2 | 92.8 | 89.6 | 77.8 | 79.4 | 82.2 | 73.5 | 87 |
| CHEK1 | 1523.4 | 2037.3 | 942.6 | 502 | 392.1 | 607.2 | 1103.8 | 1563.9 |
| CHEK2 | 607.5 | 813.4 | 282.9 | 264 | 315.9 | 432.5 | 465.8 | 780.3 |
| CHEK2 | 85.1 | 105.1 | 92 | 93.9 | 81 | 94.2 | 82.8 | 91.6 |
| CHERP | 235.1 | 309.7 | 197 | 172.9 | 153.5 | 203.3 | 231.2 | 286.1 |
| CHES1 | 702.1 | 963.7 | 516.3 | 677 | 517.4 | 750.9 | 673.4 | 1215.8 |
| CHFR | 1127 | 1345.4 | 1309.1 | 1196.2 | 1038.8 | 1568.2 | 978.2 | 1424.9 |
| CHGA | 89.3 | 115.7 | 104.5 | 99.7 | 95.5 | 103.5 | 98.4 | 98 |
| CHGB | 106.1 | 108 | 85.5 | 93.5 | 77.9 | 82.5 | 97.9 | 107.5 |
| CHGN | 96.7 | 99 | 96.1 | 92.3 | 81.8 | 100.5 | 98.7 | 98.4 |
| CHI3L1 | 101.3 | 111.5 | 114.7 | 123.7 | 116 | 132.1 | 94.8 | 115.1 |
| CHI3L2 | 86.4 | 85 | 104.9 | 106.9 | 106.1 | 98 | 88.2 | 86.5 |
| CHI3L2 | 83.7 | 96.3 | 95.1 | 90.7 | 82.3 | 89 | 85.2 | 93.6 |
| CHIA | 84.8 | 89.5 | 90.9 | 80.4 | 79.6 | 79.2 | 83.3 | 89.6 |
| CHIA | 96.5 | 91.3 | 104 | 91.1 | 84.3 | 96.8 | 84.7 | 99.9 |
| CHIC1 | 124.6 | 146.9 | 103.9 | 95.2 | 88.8 | 94.8 | 110.8 | 123 |
| CHIC1 | 104.9 | 117.5 | 97.4 | 88.1 | 90 | 87.4 | 98.2 | 97 |
| CHIC2 | 1457.1 | 1732.5 | 1069.3 | 961 | 778 | 1078.4 | 1569.4 | 2901.6 |
| CHID1 | 97.8 | 136.7 | 89.6 | 84.4 | 88.1 | 91.7 | 88.6 | 103.5 |
| CHKA | 883.6 | 1069.6 | 610 | 628.1 | 540.6 | 684.3 | 817.4 | 1145.9 |
| CHKA | 230.5 | 310.3 | 158.8 | 160 | 170.7 | 186.3 | 218.8 | 354.1 |
| CHKB | 791.6 | 724.4 | 700.1 | 585.7 | 631.1 | 1167.8 | 495.3 | 962.4 |
| CHKB | 93 | 114.4 | 80.5 | 82.4 | 82.1 | 84.5 | 101 | 141.6 |
| CHL1 | 98.3 | 104.5 | 104.3 | 99.6 | 99.8 | 99.2 | 99.5 | 105 |
| CHM | 132.2 | 141.9 | 94.9 | 88.6 | 83.4 | 86.7 | 109.3 | 131.9 |
| CHML | 185.5 | 204.1 | 132.3 | 137 | 120.8 | 147.1 | 164.2 | 177.9 |
| CHMP1B | 1072.2 | 1375.8 | 602.5 | 691.6 | 626.4 | 966.3 | 858.4 | 1149.5 |
| CHMP2A | 257.7 | 342.8 | 203.2 | 184.8 | 138.7 | 181.4 | 237.4 | 222 |
| CHMP2A | 471.3 | 684.8 | 264.6 | 182.5 | 163.8 | 191.7 | 491.7 | 488.8 |
| CHMP2A | 2574.3 | 3442.7 | 1372 | 1130.3 | 929.6 | 1223.9 | 2253.8 | 2503.5 |
| CHMP2B | 584.7 | 775.3 | 288.4 | 359.7 | 257.4 | 458 | 557.9 | 1023.6 |
| CHMP4A | 1415.8 | 1935 | 665.1 | 516.1 | 429.3 | 513.4 | 1202.6 | 1416.6 |
| CHMP4B | 904.6 | 1155.7 | 800.6 | 822.6 | 636.3 | 892.3 | 895.9 | 1294.5 |
| CHMP4C | 88.4 | 95.7 | 91.6 | 83.3 | 88.3 | 89.5 | 92.7 | 110.3 |
| CHMP5 | 1519.3 | 2012.1 | 542 | 528 | 436.6 | 866.7 | 1078.8 | 1338 |
| CHMP6 | 432.9 | 591.2 | 297.5 | 283.9 | 243 | 302.5 | 425.5 | 452.6 |
| CHMP6 | 211 | 266.2 | 119 | 117.9 | 107.7 | 116.2 | 181.2 | 178.6 |
| CHMP7 | 201.8 | 239.7 | 148.1 | 129.4 | 125.1 | 168.6 | 189.2 | 259.1 |
| CHN1 | 123.4 | 142.3 | 124.6 | 101 | 94.6 | 107.8 | 144.5 | 152.8 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| CHN1 | 78.1 | 79.2 | 98.7 | 94.1 | 84.4 | 84.3 | 70.9 | 82.8 |
| CHN2 | 108.9 | 137.2 | 126 | 110.7 | 114.9 | 124.5 | 95.3 | 107.4 |
| CHN2 | 158.5 | 225.4 | 142.1 | 136.9 | 154.6 | 146.7 | 108.2 | 115.4 |
| CHN2 | 98 | 116 | 84.7 | 80.2 | 74.6 | 87 | 89.6 | 113.5 |
| CHODL | 154.1 | 170.9 | 103.4 | 96.8 | 88.4 | 109.4 | 134 | 151.3 |
| CHORDC1 | 97.5 | 103.9 | 89.4 | 79.8 | 76.7 | 87.7 | 94.8 | 119.1 |
| CHP | 1007.9 | 1060.1 | 321 | 313 | 233.2 | 258.5 | 993.5 | 1601.5 |
| CHPF | 144.4 | 173.9 | 189.2 | 185.8 | 165.7 | 241.5 | 140.2 | 178.2 |
| CHPT1 | 395.6 | 448.7 | 168 | 171.3 | 148.5 | 181.4 | 349.3 | 659.5 |
| CHR415SYT | 67.8 | 85.7 | 92.2 | 82.5 | 86 | 84.5 | 73.7 | 80.2 |
| CHRAC1 | 345.8 | 474.3 | 265.6 | 213.7 | 171.8 | 206.7 | 290.2 | 555.9 |
| CHRD | 86.8 | 103.8 | 93.3 | 98.1 | 87.4 | 80.4 | 85.4 | 92.8 |
| CHRD1 | 76 | 80.6 | 84.5 | 80 | 81.4 | 81.1 | 76.7 | 86.1 |
| CHRD2 | 92 | 105.9 | 82.8 | 81.5 | 70.8 | 71.8 | 93.6 | 105.9 |
| CHRFAM7A | 114.2 | 120.7 | 95.9 | 89.3 | 82.6 | 94.7 | 101.9 | 124.5 |
| CHRFAM7A | 80.5 | 90.4 | 93.4 | 94.9 | 86.3 | 96.8 | 87.4 | 81.9 |
| CHRFAM7A | 78.3 | 86.7 | 80.4 | 90.8 | 76.2 | 77.5 | 76 | 81.3 |
| CHRM1 | 98.5 | 102.3 | 87.6 | 88.6 | 82.4 | 84.9 | 95.4 | 105.8 |
| CHRM2 | 80.8 | 86.2 | 84.1 | 91.1 | 86.7 | 88.1 | 90.4 | 88.5 |
| CHRM2 | 86.3 | 94.6 | 90.8 | 88.6 | 82.3 | 81.9 | 90.9 | 92.5 |
| CHRM4 | 73.3 | 79.1 | 97.4 | 85 | 87.9 | 91.2 | 84 | 79.7 |
| CHRM5 | 95.2 | 101 | 86.4 | 82.3 | 78 | 81.1 | 94.7 | 98.3 |
| CHRNA1 | 77.4 | 97.1 | 90.6 | 78.7 | 84.2 | 83.6 | 91.1 | 86.5 |
| CHRNA1 | 145.6 | 156.8 | 110.7 | 114.7 | 105 | 90.7 | 119.3 | 132.2 |
| CHRNA1 | 76.4 | 76 | 84.1 | 86.2 | 79.6 | 78.1 | 77.3 | 88.9 |
| CHRNA10 | 126.3 | 150.6 | 102.5 | 81.8 | 76.6 | 87.3 | 117 | 156.1 |
| CHRNA2 | 104.5 | 114.6 | 103.3 | 97 | 98.6 | 96.4 | 94.7 | 107 |
| CHRNA3 | 107.9 | 103.6 | 121 | 108.9 | 96.7 | 96 | 99.7 | 97.6 |
| CHRNA4 | 101.4 | 117.5 | 105.8 | 89.6 | 94.6 | 99 | 103 | 114.9 |
| CHRNA5 | 1563.5 | 1246 | 1273.3 | 1935.2 | 1752.9 | 1397.1 | 1526.9 | 2902.1 |
| CHRNA6 | 115.4 | 137.3 | 111 | 105.7 | 105.2 | 109.3 | 112.7 | 126.1 |
| CHRNA7 | 107.4 | 114.4 | 96.5 | 95.5 | 86.1 | 106 | 100 | 107.6 |
| CHRNA9 | 78.2 | 103.8 | 98.4 | 98.9 | 90.5 | 88.7 | 81.7 | 92.2 |
| CHRN1 | 181.8 | 294.6 | 178.9 | 167 | 135.8 | 219.6 | 203.9 | 294.7 |
| CHRN2 | 89.5 | 83.7 | 81.6 | 84.1 | 82.8 | 83.2 | 84.4 | 88 |
| CHRN3 | 114.6 | 129.3 | 99.1 | 83.9 | 79.1 | 81.2 | 106 | 127.6 |
| CHRN4 | 96.3 | 112 | 96.2 | 81.2 | 81 | 82.6 | 91.4 | 111.1 |
| CHRN5 | 100.4 | 113.6 | 100.2 | 87.9 | 92.6 | 96 | 103.8 | 117.7 |
| CHRN6 | 78.9 | 91.1 | 91.3 | 84 | 83.8 | 83.4 | 85.1 | 91.9 |
| CHST1 | 107 | 114.2 | 93.4 | 86.3 | 81.3 | 94.3 | 109 | 114.3 |
| CHST10 | 257.2 | 363.4 | 254 | 213 | 174 | 269.9 | 248.1 | 393.9 |
| CHST11 | 110.7 | 123.4 | 94.5 | 88.5 | 86.2 | 85.8 | 116.5 | 119.8 |
| CHST12 | 343.8 | 414.8 | 232.6 | 250.3 | 229.8 | 238.2 | 207.5 | 208.9 |
| CHST13 | 3015.2 | 3738.7 | 1846.7 | 1165.1 | 1007.6 | 1125.7 | 2758.4 | 2012.1 |
| CHST2 | 134.4 | 165.5 | 101.4 | 86.7 | 88.5 | 99.6 | 124 | 163.5 |
| CHST3 | 154.5 | 191.8 | 153.9 | 131.3 | 128.9 | 129.2 | 154 | 203 |
| CHST4 | 184.5 | 206.1 | 162.8 | 110.1 | 100.9 | 117.1 | 121.3 | 121.2 |
| CHST5 | 81.9 | 97.4 | 89.4 | 81.1 | 85.9 | 88.5 | 75.1 | 81.3 |
| CHST5 | 81.1 | 102.3 | 102 | 81.9 | 86.7 | 85.4 | 91.4 | 91 |
| CHST6 | 101.3 | 108.8 | 115.6 | 104.3 | 92.3 | 98.4 | 94.1 | 113.1 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| CHST7 | 161.5 | 224.2 | 166.2 | 135.1 | 122.1 | 143.3 | 160.4 | 188.8 |
| CHST8 | 88.9 | 102.7 | 93 | 96.9 | 86.6 | 96.9 | 92.5 | 92.6 |
| CHST9 | 78.7 | 86.5 | 84.7 | 84.1 | 87.2 | 83.5 | 80.8 | 89.1 |
| CHSY1 | 2657.9 | 3225.6 | 1420.1 | 2161.4 | 1516.2 | 2827.3 | 2277.8 | 3184.1 |
| CHTF18 | 332.3 | 324.2 | 487 | 345.9 | 312 | 579.4 | 224.2 | 473.1 |
| CHUK | 510.2 | 627.1 | 386.1 | 328.9 | 246.7 | 345.3 | 560.9 | 878.7 |
| CHURC1 | 715.7 | 818.2 | 423.4 | 495.6 | 408.3 | 722.2 | 578.2 | 880 |
| CHX10 | 112.6 | 145.5 | 109.9 | 93.6 | 94.8 | 95.1 | 116.3 | 118.1 |
| CIAO1 | 2008.3 | 2119.2 | 1095.5 | 1128.4 | 849 | 1132 | 1595.1 | 2321.5 |
| CIAPIN1 | 580.3 | 675.3 | 286.4 | 202.8 | 167.9 | 324.7 | 520.8 | 966.8 |
| CIAS1 | 1744 | 1994.1 | 1231.7 | 1028.3 | 822.7 | 1192.8 | 1452.4 | 1902.8 |
| CIAS1 | 296.5 | 349 | 176.7 | 149.2 | 137 | 147.8 | 264.8 | 334.4 |
| CIB1 | 4426.8 | 5679.3 | 4555.5 | 4408.8 | 3723.7 | 4399.3 | 3746.9 | 4111.1 |
| CIB2 | 104.9 | 133.4 | 84.8 | 85.5 | 90.2 | 104.2 | 119.1 | 124.9 |
| CIB3 | 263.8 | 320.9 | 177.4 | 115.7 | 114.5 | 129.7 | 236 | 224.2 |
| CIB4 | 79.9 | 82.5 | 82.2 | 82.8 | 83.3 | 84.5 | 73.2 | 82.1 |
| CIC | 210 | 246.4 | 150.5 | 161.4 | 131 | 171.8 | 198.3 | 293.9 |
| CICE | 129.5 | 141.5 | 101.4 | 100.2 | 87.7 | 95.5 | 116.6 | 140.5 |
| CICK0721Q | 121.5 | 124 | 100.8 | 95 | 95.2 | 92.2 | 118.2 | 124 |
| CIDEA | 109 | 119 | 88.4 | 95.7 | 90 | 90.6 | 94.4 | 110.9 |
| CIDEA | 88.5 | 124.8 | 88.1 | 86.5 | 78.7 | 81.4 | 89 | 145.4 |
| CIDEB | 178.3 | 203.3 | 130.4 | 134.3 | 132.6 | 139.6 | 146 | 192 |
| CIDEC | 92.1 | 106 | 115.6 | 96.3 | 91.2 | 80.9 | 98.6 | 99.7 |
| CIITA | 114.3 | 119.1 | 87.4 | 87.5 | 89.8 | 86 | 115.5 | 111.3 |
| CILP | 81.5 | 89.4 | 88.5 | 82.5 | 84.4 | 79.9 | 77.6 | 75.7 |
| CILP2 | 101.6 | 119.9 | 88.4 | 91.5 | 83.7 | 90.1 | 101.6 | 114 |
| CINP | 184.9 | 283.1 | 146.9 | 123.7 | 107.6 | 120.1 | 195 | 235.4 |
| CIP29 | 5742.2 | 6517.7 | 3473.1 | 2690.8 | 2365.9 | 3427.8 | 4664 | 5457.1 |
| CIR | 408.8 | 539.2 | 120.3 | 134.3 | 134.1 | 217.7 | 424 | 562.3 |
| CIRBP | 3245.8 | 4505.1 | 1775 | 773.7 | 597.5 | 793.9 | 2543.8 | 3656.3 |
| CIRH1A | 2385.4 | 2953.5 | 1506.2 | 1020.8 | 797.8 | 1070.2 | 1960.4 | 2365.2 |
| CISH | 88.8 | 110.5 | 106.6 | 90.1 | 90.4 | 107.5 | 94.4 | 119.2 |
| CIT | 107.1 | 117.9 | 105.2 | 87.9 | 92 | 93.4 | 107.5 | 113.1 |
| CITED1 | 104.1 | 126.2 | 98.2 | 91.6 | 85.5 | 83 | 98.3 | 118.1 |
| CITED2 | 3825.7 | 4990.6 | 1824.6 | 2113.7 | 1129.8 | 2452.4 | 2813.8 | 3513.3 |
| CITED4 | 3259.1 | 4551.6 | 3418.4 | 2768.1 | 2051.5 | 2725.2 | 2261.1 | 3749.9 |
| CIZ1 | 114.5 | 124.7 | 112.1 | 100.7 | 104.7 | 104.1 | 104.7 | 120.8 |
| CKAP1 | 1526.9 | 1884.7 | 784.4 | 515.5 | 458.4 | 666.2 | 1415 | 1854.6 |
| CKAP2 | 682.2 | 768.5 | 266.6 | 273.1 | 268.6 | 379.3 | 581.4 | 889.7 |
| CKAP4 | 1116.3 | 1549.2 | 1329.7 | 953.9 | 706.6 | 1671 | 1006.8 | 1715.2 |
| CKAP5 | 1665.5 | 2242.2 | 2210.5 | 2552.1 | 2324.8 | 3492.1 | 1597.6 | 2610.7 |
| CKAP5 | 269.5 | 350.4 | 161 | 126.4 | 127.3 | 132.9 | 220.2 | 279.9 |
| CKB | 239.7 | 336.1 | 219.7 | 127.5 | 120.4 | 145.8 | 211.9 | 288.7 |
| CKLF | 6015.4 | 6754.8 | 4530.7 | 3872.7 | 2762.8 | 4047.2 | 4425.5 | 4618.2 |
| CKLF | 3838.9 | 4793.5 | 2023.2 | 1712.4 | 1381 | 1835.5 | 2926 | 3316.6 |
| CKLF | 87.7 | 101.1 | 83.4 | 70.4 | 67.6 | 74.4 | 86.4 | 103.8 |
| CKLFSF4 | 85 | 104.6 | 97.1 | 94.7 | 96.9 | 93.3 | 99 | 99 |
| CKM | 398.5 | 482.4 | 234.9 | 206.9 | 164.4 | 197.3 | 413.8 | 639.2 |
| CKMT1A | 89.6 | 105.1 | 98.8 | 97.2 | 82.2 | 98 | 90.6 | 99.3 |
| CKMT1B | 78.8 | 98.8 | 94.1 | 79.9 | 76.4 | 85.6 | 83.7 | 84.6 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| CKMT2 | 93.1 | 113.5 | 94.6 | 82.8 | 83.6 | 92.9 | 99.4 | 113.9 |
| CKS1B | 3954.5 | 4712.2 | 2233 | 1358.1 | 1194.8 | 1302.6 | 3764.4 | 4535.3 |
| CKS2 | 6675.5 | 7850.4 | 4096.4 | 2676.8 | 2074.9 | 3265.3 | 6321.7 | 8486.2 |
| CLASP1 | 370 | 563.2 | 332 | 482 | 389.9 | 584.7 | 358.9 | 610.5 |
| CLASP2 | 449.6 | 756.2 | 359.5 | 421.5 | 375.2 | 701.1 | 482.1 | 619.6 |
| CLC | 110.4 | 142.4 | 103.1 | 92.9 | 76.4 | 95.6 | 126.8 | 117.2 |
| CLCA1 | 93 | 104.1 | 84.9 | 78.9 | 78.7 | 85.5 | 96.2 | 97 |
| CLCA2 | 89.9 | 98.1 | 95.7 | 82 | 75.9 | 85.6 | 94.4 | 87 |
| CLCA3 | 69.5 | 86.5 | 87.7 | 90.2 | 82.4 | 89.2 | 80.1 | 78.3 |
| CLCA4 | 102.4 | 101.1 | 86.7 | 77.3 | 82.1 | 90.1 | 94.6 | 104.8 |
| CLCC1 | 97.1 | 107.8 | 93.5 | 84.1 | 87.2 | 88 | 97.5 | 91.4 |
| CLCC1 | 162 | 212.9 | 132.8 | 107.1 | 100.9 | 103.4 | 183.1 | 228.4 |
| CLCF1 | 116.4 | 140 | 95 | 95 | 88.2 | 112.6 | 127.9 | 159.1 |
| CLCN1 | 99.7 | 102.1 | 91.9 | 89.1 | 80.1 | 85.2 | 93 | 105.4 |
| CLCN2 | 144.4 | 151.8 | 97.6 | 92.5 | 87 | 93.4 | 128.9 | 153.9 |
| CLCN3 | 87.3 | 94 | 89.8 | 87.5 | 83.8 | 86.2 | 86.5 | 103 |
| CLCN3 | 476.8 | 568.3 | 290.6 | 310.9 | 223.5 | 311.1 | 428.3 | 617.7 |
| CLCN4 | 94.8 | 121.4 | 96.9 | 102.6 | 94.3 | 96 | 86.2 | 89.7 |
| CLCN5 | 103.1 | 122.1 | 97.6 | 102.5 | 89.5 | 94.3 | 101.8 | 113.4 |
| CLCN6 | 172.6 | 180.3 | 113.9 | 101.3 | 88.3 | 105.8 | 151.9 | 180 |
| CLCN6 | 183 | 209 | 161.6 | 254.4 | 267.3 | 278.9 | 170.5 | 180.1 |
| CLCN6 | 168.8 | 202.9 | 171 | 262 | 248.4 | 316.8 | 164.4 | 233.8 |
| CLCN7 | 3200.2 | 3695.8 | 3382.5 | 3505.5 | 2932.1 | 3390.7 | 2601.6 | 2709.8 |
| CLCNKA | 104.7 | 117.5 | 103.4 | 105.6 | 105.1 | 123.1 | 98.5 | 103.5 |
| CLCNKA | 99.4 | 108.9 | 115.1 | 118.1 | 113 | 147.6 | 94.2 | 90.3 |
| CLCNKB | 99.8 | 108.5 | 105.2 | 94.1 | 86.5 | 99.6 | 95.7 | 107.5 |
| CLDN1 | 85.1 | 106.9 | 105.1 | 106.1 | 107.7 | 102.7 | 104.3 | 105.6 |
| CLDN10 | 143.2 | 185.8 | 126.7 | 91.9 | 87.2 | 93 | 145.9 | 149.4 |
| CLDN10 | 76.9 | 79.7 | 89.8 | 76.8 | 77.4 | 86 | 78.1 | 93.8 |
| CLDN10 | 110.5 | 130.4 | 120.3 | 107.3 | 88.5 | 99.5 | 105.3 | 111.2 |
| CLDN12 | 263 | 301.4 | 151.8 | 182.8 | 153.8 | 242.9 | 175.7 | 242.8 |
| CLDN14 | 368 | 479.5 | 234.9 | 225.8 | 207.2 | 253.3 | 327.9 | 338.5 |
| CLDN14 | 91.6 | 95.6 | 81.9 | 74.8 | 73.4 | 84.3 | 91.5 | 98.6 |
| CLDN14 | 103.6 | 113.2 | 81.5 | 82.6 | 86.1 | 82.6 | 97.3 | 111.4 |
| CLDN15 | 85.1 | 90.4 | 110 | 94.3 | 85.3 | 103.2 | 89.1 | 83.3 |
| CLDN15 | 554.2 | 533.2 | 397.8 | 301.1 | 399.7 | 345.5 | 376.4 | 527.4 |
| CLDN15 | 106.5 | 121.4 | 119.1 | 107.2 | 101.9 | 108.8 | 107.3 | 119.4 |
| CLDN16 | 90 | 105.9 | 96.7 | 91.6 | 86.2 | 89.5 | 90.5 | 99.4 |
| CLDN17 | 97.9 | 108.3 | 82.9 | 86.1 | 74.8 | 89.3 | 90.7 | 111.5 |
| CLDN18 | 87.1 | 99.3 | 98.2 | 91.3 | 81.9 | 103.4 | 79.3 | 87.7 |
| CLDN18 | 169.8 | 174.7 | 132.7 | 101.1 | 119.6 | 118.8 | 158.6 | 166.3 |
| CLDN18 | 81.9 | 82.5 | 105.3 | 96.3 | 92.9 | 103.6 | 85.4 | 101 |
| CLDN18 | 106.8 | 137.6 | 91 | 90.2 | 90 | 90.7 | 114.9 | 125.1 |
| CLDN19 | 133 | 131.1 | 104.8 | 99.8 | 93.7 | 106 | 122.2 | 123.2 |
| CLDN2 | 102.1 | 102.1 | 103.9 | 90.7 | 93 | 85 | 98 | 100.5 |
| CLDN20 | 197.4 | 234 | 128.5 | 103.6 | 98 | 105.6 | 183.8 | 200.5 |
| CLDN23 | 901.3 | 1023.3 | 625.2 | 624.9 | 385.1 | 613.9 | 995.2 | 1506.4 |
| CLDN3 | 104.6 | 119.6 | 87 | 84.7 | 85.4 | 76.3 | 106.8 | 125.1 |
| CLDN4 | 129.9 | 135.6 | 85.8 | 95.4 | 87.3 | 96.6 | 114.1 | 119 |
| CLDN5 | 99.3 | 128.3 | 84.4 | 81.4 | 69.5 | 92.1 | 94.5 | 106.1 |

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|----------|--------|---------|---------|--------|--------|---------|---------|---------|
| CLDN6 | 81.6 | 103.1 | 92 | 83.9 | 93.7 | 86.6 | 88.1 | 101.1 |
| CLDN7 | 128.1 | 126 | 124.7 | 116.1 | 129.9 | 164.4 | 108.3 | 122.2 |
| CLDN8 | 84.4 | 90.7 | 87.4 | 84.7 | 79.5 | 81.5 | 83.9 | 85.7 |
| CLDN9 | 111.2 | 137 | 100 | 93.9 | 99.5 | 107.8 | 109.8 | 120.6 |
| CLDND1 | 1051.8 | 1297.7 | 458 | 395.3 | 399.1 | 675.4 | 825.8 | 1605.9 |
| CLDND1 | 945.7 | 1176.6 | 564.2 | 591.8 | 439.2 | 835.9 | 835.5 | 1599.2 |
| CLDND2 | 241.1 | 236.2 | 246 | 183.2 | 209.4 | 186.4 | 198.2 | 211.5 |
| CLEC10A | 128.1 | 127.2 | 106.7 | 118.6 | 111.2 | 121.5 | 105.9 | 119.3 |
| CLEC10A | 89.9 | 111.7 | 99.6 | 101.9 | 101.9 | 105.5 | 94.9 | 101.8 |
| CLEC10A | 104 | 112.1 | 107.7 | 136.8 | 114.4 | 140.2 | 90.6 | 104 |
| CLEC11A | 5788.5 | 7794.9 | 7714.6 | 2577.7 | 2220.6 | 2580 | 5305 | 11795.1 |
| CLEC12A | 384.5 | 476.9 | 193 | 530.2 | 409.9 | 718.1 | 236.5 | 275.4 |
| CLEC12A | 334.5 | 410.4 | 196.5 | 387.7 | 337.1 | 484.1 | 228.2 | 255 |
| CLEC12A | 188.5 | 209.6 | 111.7 | 141.4 | 125.1 | 180.9 | 146.4 | 158.7 |
| CLEC12B | 113.2 | 147.8 | 94.2 | 94.4 | 86.6 | 102.9 | 127.3 | 155.8 |
| CLEC14A | 107.9 | 127.5 | 106.2 | 79.1 | 83.9 | 101.9 | 123.8 | 136.8 |
| CLEC1A | 88.4 | 97.2 | 90.1 | 91.2 | 84.7 | 92.7 | 87.9 | 94.6 |
| CLEC1B | 87.2 | 89.8 | 96.4 | 86.7 | 90.4 | 79.6 | 82.9 | 101.7 |
| CLEC2B | 123.7 | 129.8 | 92.6 | 85.1 | 83.1 | 89.5 | 111.4 | 112.5 |
| CLEC2D | 75.7 | 79 | 91.5 | 81.4 | 83.1 | 99.8 | 81.8 | 87.5 |
| CLEC2D | 222.1 | 239.9 | 190.9 | 164.2 | 141.2 | 191.3 | 147.4 | 170.4 |
| CLEC3A | 86.1 | 85.4 | 93.7 | 91.1 | 95.8 | 87.7 | 89.5 | 99 |
| CLEC3B | 175.8 | 210.8 | 116 | 133.1 | 116.2 | 125.4 | 140.3 | 153.4 |
| CLEC4A | 94.6 | 114.9 | 92.5 | 110.2 | 100.8 | 101.1 | 96.6 | 105.6 |
| CLEC4C | 87.1 | 97.6 | 91.1 | 84.9 | 84.4 | 93.5 | 93.1 | 96.3 |
| CLEC4C | 99.1 | 96.3 | 90.2 | 91.7 | 77.1 | 98.2 | 90.1 | 97.3 |
| CLEC4D | 135.8 | 148 | 92.1 | 95.6 | 85.6 | 84.1 | 122.3 | 140.5 |
| CLEC4E | 94.9 | 123.6 | 92.3 | 94.7 | 85.9 | 81.7 | 92.8 | 102.4 |
| CLEC4F | 75.1 | 82 | 97.8 | 85.2 | 82.9 | 80.9 | 84.6 | 76.6 |
| CLEC4G | 118.8 | 139.7 | 107.3 | 89.4 | 84.7 | 93.4 | 121.1 | 136.6 |
| CLEC4M | 80.2 | 77.5 | 89.4 | 84.3 | 74.9 | 84.4 | 80.6 | 70.7 |
| CLEC5A | 125.4 | 134.5 | 108.8 | 111.5 | 88.5 | 118.3 | 114.4 | 142.8 |
| CLEC6A | 105.9 | 121.5 | 94.3 | 94.3 | 82.2 | 88.5 | 96.6 | 110.5 |
| CLEC7A | 85.7 | 91.7 | 106.6 | 103.1 | 96.2 | 91.1 | 87.3 | 88.2 |
| CLEC7A | 86.7 | 100.2 | 97.7 | 93.9 | 86.1 | 91.2 | 98.8 | 94.2 |
| CLEC7A | 89.7 | 89.3 | 104 | 101.9 | 85.7 | 88.6 | 86 | 94 |
| CLEC9A | 93.5 | 97.9 | 105.6 | 101.7 | 101.9 | 101.8 | 89.7 | 96.9 |
| CLGN | 170.2 | 195.9 | 127.2 | 136.1 | 119.8 | 170.3 | 146.7 | 208.2 |
| CLIC1 | 19662 | 25449.5 | 11556.4 | 10238 | 7202.6 | 11182.1 | 18465.6 | 23228 |
| CLIC2 | 182.5 | 228.3 | 101.8 | 104.4 | 97.6 | 109.1 | 179.8 | 192.7 |
| CLIC3 | 90.2 | 107.2 | 92.1 | 82.2 | 82.3 | 89.7 | 91.8 | 102 |
| CLIC4 | 1605.4 | 1956.8 | 568.1 | 760 | 639.5 | 977.9 | 1662.8 | 3318.9 |
| CLIC5 | 97.2 | 117.3 | 101.5 | 93.7 | 97.7 | 102.8 | 95.8 | 105 |
| CLIC6 | 271.6 | 307.9 | 242.5 | 230.7 | 195.9 | 196.8 | 269.6 | 406.5 |
| CLIP1 | 589.6 | 679.4 | 284.9 | 317.2 | 308.8 | 523 | 770.3 | 1325.6 |
| CLIP2 | 101.2 | 122.5 | 127.6 | 119.4 | 109.1 | 153.8 | 91.6 | 116.3 |
| CLIP2 | 104.8 | 125.8 | 144.4 | 138.8 | 137.4 | 202.4 | 118.5 | 140.4 |
| CLIPR-59 | 117.1 | 107.1 | 100.3 | 103.4 | 113.3 | 111.3 | 99.9 | 116.1 |
| CLK1 | 347.3 | 325.5 | 175.5 | 133.4 | 167.4 | 184.9 | 305.3 | 628.1 |
| CLK1 | 291.1 | 307.7 | 121.1 | 114.4 | 103 | 126.6 | 241 | 388.2 |

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|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| CLK2 | 562 | 627 | 284.9 | 245.2 | 280 | 312.8 | 380.9 | 540 |
| CLK2 | 654.7 | 689.4 | 483.4 | 507.5 | 493.9 | 721.9 | 428.8 | 840.7 |
| CLK2P | 79.6 | 87.2 | 96.9 | 94.5 | 93.2 | 94 | 84 | 92.5 |
| CLK3 | 393.3 | 507.6 | 244.7 | 179.5 | 179.1 | 201.1 | 351.9 | 415.8 |
| CLK3 | 1021.4 | 1221.2 | 745.5 | 838.5 | 812.9 | 969.3 | 934.7 | 694.8 |
| CLK3 | 197.6 | 260.4 | 106.6 | 122.1 | 126.8 | 135.2 | 216.4 | 245.8 |
| CLK4 | 250 | 240.1 | 171.8 | 194.2 | 147.1 | 258.7 | 197.4 | 507.3 |
| CLLU1 | 89.6 | 102.8 | 84.6 | 82 | 76.5 | 79.9 | 93.2 | 96.1 |
| CLLU1OS | 107.1 | 120.7 | 92.5 | 87.1 | 85.2 | 92 | 101.3 | 114.2 |
| CLMN | 118.7 | 146.5 | 96.1 | 92 | 82.6 | 96.1 | 123.7 | 135.8 |
| CLN3 | 286.9 | 388.7 | 249.5 | 273.3 | 232.5 | 375.9 | 228 | 378.5 |
| CLN3 | 240.6 | 259.6 | 215.5 | 247.6 | 214.8 | 304.7 | 204.7 | 363.6 |
| CLN5 | 356.6 | 414.5 | 240.2 | 359.2 | 269.2 | 449.2 | 311.1 | 558.6 |
| CLN6 | 292.4 | 391.1 | 220.1 | 230.7 | 171.5 | 272.3 | 229.2 | 347.8 |
| CLN8 | 127.1 | 122 | 122.6 | 119.6 | 85.6 | 89.6 | 98.5 | 134.8 |
| CLNS1A | 5511.7 | 7492 | 3163 | 2742.4 | 2396.1 | 4332.8 | 4701.1 | 5777.3 |
| CLOCK | 108.2 | 133.2 | 103.6 | 97.4 | 96.9 | 103.2 | 118.2 | 106.5 |
| CLPB | 106.7 | 114.9 | 107.1 | 110.7 | 103.4 | 103.5 | 107.2 | 109.4 |
| CLPP | 1110.6 | 1493.3 | 769.7 | 408.8 | 365.6 | 425.7 | 914.3 | 1120.3 |
| CLPS | 79.8 | 83.5 | 89.4 | 88.2 | 80.6 | 86.9 | 77.3 | 75.2 |
| CLPTM1 | 548 | 703.9 | 889.9 | 572.4 | 487.7 | 527.4 | 520.1 | 1193.7 |
| CLPX | 963.5 | 1245.4 | 591.5 | 575 | 464.1 | 817.5 | 849.3 | 1815.4 |
| CLRN3 | 119.2 | 153.2 | 87.5 | 96.6 | 87.5 | 88.8 | 122.8 | 139.7 |
| CLSPN | 157.9 | 224.1 | 115.3 | 94.6 | 87.1 | 86.9 | 139.2 | 180.5 |
| CLSTN1 | 968.9 | 1304.4 | 1444 | 1906.2 | 1371.1 | 1984.6 | 1009.1 | 2052.7 |
| CLSTN1 | 119.9 | 150.8 | 115.9 | 110.6 | 102 | 103.3 | 107 | 107 |
| CLSTN2 | 392.9 | 471.8 | 326.9 | 147.6 | 122.2 | 156 | 358.1 | 649.6 |
| CLSTN3 | 91.1 | 90 | 98.3 | 93 | 92.3 | 87.6 | 84.6 | 95.4 |
| CLTA | 3702.3 | 4643.3 | 2589.6 | 1630 | 1379.7 | 2167.3 | 2824.2 | 4003.1 |
| CLTA | 82 | 93.1 | 101 | 89.4 | 88.1 | 84.4 | 74.5 | 83.5 |
| CLTA | 2821.2 | 3657.8 | 1782.2 | 1157.6 | 1067.2 | 1696.9 | 2224.2 | 2956.1 |
| CLTB | 3464.9 | 4448.9 | 2333.8 | 1903.1 | 1583.8 | 2505.3 | 3411.3 | 4532.5 |
| CLTB | 106.4 | 128 | 94.3 | 85.8 | 78 | 87.6 | 102.7 | 127.2 |
| CLTC | 224.1 | 323.9 | 152.2 | 169.1 | 170.5 | 205.8 | 293.8 | 417.3 |
| CLTCL1 | 327.2 | 346.4 | 289.7 | 258.4 | 251.9 | 288.6 | 187.4 | 236.8 |
| CLTCL1 | 190.3 | 218.9 | 128 | 107.3 | 121.5 | 134.1 | 170.9 | 184.6 |
| CLU | 71.2 | 81.7 | 85.1 | 73.5 | 67.9 | 65.5 | 71.1 | 69.7 |
| CLU | 104 | 113.8 | 104.7 | 85.9 | 82.3 | 81.2 | 111.1 | 103.1 |
| CLU | 91.1 | 99.3 | 95.7 | 87.4 | 79.4 | 81.2 | 90 | 95.7 |
| CLUAP1 | 347 | 475.7 | 175.4 | 147.2 | 133.1 | 147.8 | 259.4 | 292.8 |
| CLUAP1 | 29932.4 | 28501.7 | 18430.5 | 27535.8 | 26687.1 | 21602.5 | 28920 | 29730 |
| CLUAP1 | 481.9 | 645.1 | 358.6 | 269.4 | 206 | 356.3 | 339.9 | 385.2 |
| CLUL1 | 80 | 84.7 | 91.7 | 84.8 | 84.3 | 83.7 | 82.3 | 84.2 |
| CLUL1 | 108 | 123.5 | 101.6 | 110.7 | 95.5 | 106.4 | 110.9 | 108.2 |
| CLUL1 | 99.5 | 121.1 | 86.3 | 84.2 | 77.8 | 86.4 | 97.7 | 112.9 |
| CLYBL | 769.8 | 1024.9 | 407.6 | 510.4 | 361.6 | 503.2 | 766.5 | 1073.2 |
| CLYBL | 613.9 | 761.7 | 306.3 | 324.7 | 276 | 346.2 | 552.1 | 607.1 |
| CMA1 | 87.8 | 101.7 | 100.5 | 93.6 | 89.8 | 94.6 | 88.1 | 93.7 |
| CMAH | 100.5 | 117.1 | 97.8 | 87.1 | 93.9 | 93.8 | 89.9 | 99.1 |
| CMAS | 1724.4 | 2551.6 | 1252.7 | 1175.3 | 897.7 | 1562.1 | 1661.4 | 2446.3 |

| | | | | | | | | |
|--------|--------|---------|--------|--------|--------|--------|--------|---------|
| CMIP | 1876.8 | 2272.4 | 1235.1 | 948.6 | 845.3 | 1504.4 | 1690 | 2133.5 |
| CMIP | 107.6 | 119.6 | 91 | 96 | 92.5 | 88.3 | 93 | 96.8 |
| CMIP | 109.7 | 130.6 | 92.9 | 83.9 | 84.3 | 88.1 | 111.9 | 117.9 |
| CMKLR1 | 94.7 | 111.5 | 94.7 | 90.6 | 85.6 | 95.3 | 93.8 | 98.2 |
| CMKOR1 | 150.9 | 174.8 | 121 | 167.1 | 126.1 | 165.5 | 115.8 | 127.9 |
| CML2 | 88.9 | 92.8 | 101.2 | 87 | 90.5 | 96.7 | 87.9 | 84.7 |
| CMPK | 987.5 | 1078.3 | 804.3 | 862.9 | 694.6 | 1169.8 | 1103.3 | 2528.7 |
| CMTM1 | 92.7 | 105 | 106.4 | 95 | 104.7 | 92.3 | 101.6 | 99.7 |
| CMTM1 | 128.3 | 147.1 | 93.7 | 96.8 | 87.7 | 90.4 | 113.5 | 130.8 |
| CMTM1 | 95.2 | 114.9 | 100.5 | 88.2 | 74.3 | 90.7 | 103 | 103.6 |
| CMTM2 | 81.5 | 86.3 | 80.7 | 79.2 | 70.7 | 69.5 | 78.6 | 77 |
| CMTM3 | 113.9 | 125.3 | 87.6 | 83.1 | 78.2 | 87.3 | 111.9 | 130.1 |
| CMTM3 | 2284.9 | 2716.5 | 1701.6 | 1566.1 | 1363 | 1542.2 | 2086.6 | 2755.7 |
| CMTM3 | 128 | 141.3 | 111.2 | 102.9 | 102.5 | 108.3 | 125.1 | 135.7 |
| CMTM3 | 606.6 | 840.3 | 476.4 | 414.5 | 367.1 | 467.3 | 515.4 | 803.4 |
| CMTM4 | 646.5 | 792 | 390.4 | 369.9 | 324.5 | 381 | 515.8 | 502.4 |
| CMTM4 | 102.9 | 128.7 | 105.7 | 104.4 | 93.5 | 105.5 | 107.9 | 111.3 |
| CMTM5 | 103.6 | 125.9 | 88.2 | 93 | 81.5 | 90.5 | 107.5 | 117.4 |
| CMTM7 | 6734.4 | 8086.5 | 4255.4 | 3397 | 2239.1 | 3027.8 | 5595.8 | 5930.8 |
| CMTM7 | 405.4 | 506.6 | 276.5 | 197.6 | 153.3 | 192.8 | 343.8 | 381.3 |
| CMTM7 | 883.2 | 1145.9 | 360 | 311.3 | 220.4 | 286 | 727.4 | 1574.1 |
| CMTM8 | 189.7 | 174.2 | 140.8 | 213.1 | 195.6 | 202.5 | 176.6 | 384.9 |
| CMYA1 | 70.3 | 81.7 | 81.1 | 72.6 | 73.6 | 69.8 | 81.4 | 83.8 |
| CMYA3 | 88 | 100.4 | 93.7 | 88.2 | 82.7 | 87.5 | 88.9 | 86.7 |
| CMYA3 | 90.8 | 100.8 | 92.5 | 85.1 | 82.4 | 80.8 | 88 | 97.2 |
| CMYA5 | 277.3 | 335.7 | 195.4 | 261.6 | 194.5 | 370.1 | 282.6 | 329.1 |
| CNAP1 | 1231.7 | 1272.1 | 910.5 | 762.1 | 664.9 | 701.1 | 804.7 | 1032.4 |
| CNBD1 | 73.1 | 85.8 | 89.1 | 84.4 | 79.2 | 83 | 75.6 | 73.4 |
| CNBP | 3366.8 | 3862.4 | 1344.4 | 1365.7 | 978.6 | 1832.7 | 2709.1 | 6307.1 |
| CNDP1 | 93.3 | 104.3 | 105.3 | 99.4 | 90 | 108.9 | 96.2 | 100.5 |
| CNDP2 | 2821.1 | 3664 | 1780.7 | 1971.6 | 1365.9 | 2406.7 | 2014.8 | 2401.2 |
| CNFN | 518.8 | 652.1 | 467.1 | 279.4 | 211.7 | 228 | 570.8 | 702.1 |
| CNGA1 | 83.9 | 89.4 | 88.8 | 77.4 | 76.6 | 84.8 | 87.2 | 96.3 |
| CNGA2 | 83.3 | 98.7 | 102.9 | 98.2 | 94.7 | 93.6 | 76.4 | 80.6 |
| CNGA3 | 75.4 | 88 | 103.9 | 93.8 | 89.3 | 105.9 | 84.6 | 87.5 |
| CNGA3 | 81.1 | 90.4 | 87.9 | 84.4 | 78 | 81.5 | 85.1 | 100.8 |
| CNGA3 | 166 | 185.6 | 115 | 102.1 | 102.5 | 107.9 | 154.3 | 151.5 |
| CNGA4 | 90.9 | 104.1 | 104.2 | 85.5 | 83.5 | 84.6 | 96.9 | 96.1 |
| CNGB1 | 156.3 | 198.4 | 118.5 | 123.7 | 115.7 | 121.1 | 152.7 | 133.2 |
| CNGB3 | 85.2 | 90.3 | 82.7 | 80.4 | 91 | 81.1 | 82.7 | 89 |
| CNIH | 3111.2 | 3469 | 1485.8 | 1427.6 | 911.3 | 1276.2 | 2612.3 | 4525 |
| CNIH | 2471.8 | 2882.9 | 1213.6 | 1026.9 | 701.8 | 1151.1 | 1719 | 2769 |
| CNIH2 | 88.5 | 99.1 | 88.7 | 84.6 | 76.5 | 94.2 | 91 | 87.7 |
| CNIH2 | 85.8 | 95.4 | 106.3 | 96.8 | 103.1 | 89.8 | 86 | 92.5 |
| CNIH3 | 122.7 | 144.6 | 97 | 94.1 | 92.6 | 123.1 | 112.8 | 135.5 |
| CNIH4 | 8915.9 | 10275.9 | 2873.9 | 2257.3 | 1517.2 | 2752 | 8748.1 | 10190.1 |
| CNKS1 | 97.5 | 115.7 | 100.7 | 95.8 | 92.1 | 91.1 | 95 | 99.7 |
| CNKS2 | 105.9 | 125.9 | 95.8 | 87 | 100.3 | 100.2 | 96.4 | 103.6 |
| CNKS3 | 235.6 | 320.8 | 193.9 | 236.7 | 203 | 316.5 | 266 | 366.7 |
| CNN1 | 77 | 88.3 | 88.2 | 75.8 | 73 | 79.8 | 88.2 | 98.6 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| CNN2 | 217.4 | 317.9 | 129.3 | 142.2 | 120.4 | 106.2 | 192 | 291.9 |
| CNN2 | 2778 | 3766.8 | 1394.4 | 1298.9 | 1085.7 | 1009 | 2336.4 | 2412.7 |
| CNN3 | 678.6 | 892.6 | 501.5 | 339.2 | 276.5 | 462.3 | 506.2 | 708.3 |
| CNNM1 | 112.3 | 123.2 | 123.7 | 102.9 | 120.2 | 113.9 | 108.8 | 108.5 |
| CNNM2 | 103.1 | 104.6 | 89.8 | 84.6 | 87.1 | 90.6 | 94.4 | 93.7 |
| CNNM2 | 127.7 | 140.6 | 102.4 | 110.6 | 101.1 | 114.9 | 125.8 | 139.8 |
| CNNM2 | 135.6 | 160.8 | 96.5 | 81.8 | 81.7 | 90.8 | 140.9 | 186.5 |
| CNNM3 | 393.9 | 436.8 | 201 | 202.2 | 181.4 | 190.3 | 318.4 | 394.8 |
| CNNM4 | 92.5 | 115.5 | 137.3 | 115.8 | 113.1 | 124.7 | 103.3 | 116.1 |
| CNO | 849.4 | 1207.2 | 412.9 | 299.9 | 305.9 | 336.6 | 825.4 | 962.5 |
| CNOT1 | 110.6 | 127.5 | 110.2 | 107.5 | 101.9 | 104.5 | 104.3 | 130 |
| CNOT1 | 3145 | 4624 | 3263.7 | 4640.9 | 3502.6 | 5653.9 | 3273.4 | 4005.1 |
| CNOT10 | 580.8 | 777 | 527.6 | 506.4 | 419.1 | 781.6 | 445.3 | 552.2 |
| CNOT2 | 1270.6 | 1839.1 | 676.1 | 903.3 | 745.3 | 1296.5 | 1010.2 | 1247.3 |
| CNOT3 | 174.1 | 252.2 | 281.7 | 196 | 197.4 | 262.4 | 152 | 313.3 |
| CNOT4 | 644.6 | 806.2 | 576.3 | 583.8 | 469.5 | 614.3 | 715.8 | 1279.3 |
| CNOT4 | 123.6 | 131.5 | 113.5 | 118 | 95.3 | 107.3 | 107.9 | 122.3 |
| CNOT4 | 116.7 | 130.8 | 112.2 | 106.8 | 98.7 | 110.6 | 122.3 | 124.3 |
| CNOT6 | 704.4 | 1023.2 | 576.7 | 782.6 | 618.1 | 971.1 | 650.7 | 1040.2 |
| CNOT6L | 166 | 221 | 162.8 | 148.1 | 159.2 | 182.3 | 149.2 | 213.4 |
| CNOT7 | 3081.9 | 4173 | 1073.4 | 709.6 | 485.4 | 639.3 | 2503.1 | 3338.9 |
| CNOT7 | 2150.1 | 2737 | 1491.9 | 1354.6 | 863.6 | 2218 | 1750.1 | 2842.1 |
| CNOT7 | 128.1 | 144.9 | 95.6 | 107.8 | 77.8 | 73.8 | 109.2 | 130.5 |
| CNOT8 | 1243.7 | 1670.3 | 410.4 | 587.7 | 590.3 | 798 | 1075.6 | 1426.8 |
| CNP | 93.3 | 95.4 | 90.6 | 87.8 | 89.6 | 89.6 | 100.4 | 100.2 |
| CNR1 | 116.1 | 153.1 | 99.3 | 99.4 | 93.9 | 104.6 | 106.7 | 132.2 |
| CNR2 | 80.4 | 93.5 | 100.5 | 98.5 | 88.8 | 99.2 | 88.1 | 92.5 |
| CNTD | 75.6 | 74.6 | 102.7 | 94.1 | 95.2 | 102.7 | 79.7 | 82 |
| CNTF | 95.8 | 110.2 | 84.7 | 90.3 | 78.7 | 85 | 95.2 | 101.8 |
| CNTFR | 93.7 | 108.3 | 98.9 | 87.8 | 81.5 | 94.9 | 85.5 | 98.6 |
| CNTFR | 82.3 | 100.1 | 92 | 93.6 | 91.6 | 92.2 | 90.1 | 100 |
| CNTFR | 82.6 | 86.6 | 92.8 | 86.6 | 76.3 | 84.4 | 85 | 89.6 |
| CNTN1 | 82.2 | 100.2 | 92.4 | 90.1 | 82.8 | 87.9 | 87.9 | 92.2 |
| CNTN1 | 77.3 | 90.6 | 93.8 | 74.5 | 75.3 | 82.7 | 82.3 | 84.4 |
| CNTN2 | 80.3 | 91.4 | 96.8 | 94 | 84.4 | 95.4 | 77.2 | 82.9 |
| CNTN3 | 85.3 | 106 | 94.3 | 78.2 | 78.8 | 82.8 | 89.2 | 88.9 |
| CNTN4 | 114.9 | 159.2 | 95.6 | 85.6 | 82.4 | 97.3 | 114.2 | 155.2 |
| CNTN4 | 80.1 | 86.3 | 87.2 | 79.8 | 90.7 | 82.6 | 80.6 | 85.3 |
| CNTN4 | 203.2 | 264.6 | 147 | 124 | 113.1 | 170.7 | 191.9 | 265.3 |
| CNTN5 | 77.8 | 96.8 | 83.1 | 80.6 | 83.4 | 89.6 | 80.3 | 81 |
| CNTN5 | 93.7 | 101.8 | 100.4 | 84.4 | 87.6 | 91.2 | 92.2 | 96.2 |
| CNTN6 | 98.2 | 118.1 | 98.2 | 101.4 | 86.4 | 95.6 | 99.7 | 110.5 |
| CNTNAP1 | 108.3 | 97.4 | 102.5 | 92.4 | 82.1 | 88.4 | 111.8 | 117.1 |
| CNTNAP2 | 81.1 | 91.8 | 96.2 | 87.6 | 82 | 82.3 | 84.2 | 78.3 |
| CNTNAP3 | 104.4 | 123.5 | 100.5 | 96.1 | 87.2 | 104.5 | 116.5 | 128.6 |
| CNTNAP4 | 82.3 | 101.1 | 100.7 | 95.7 | 93.4 | 88.9 | 87.7 | 91.6 |
| CNTNAP4 | 85.1 | 104.3 | 86.4 | 79.7 | 83.5 | 92.6 | 90.3 | 98.1 |
| CNTNAP5 | 135.1 | 156.9 | 109.6 | 92.8 | 100.3 | 100.1 | 137.1 | 136.9 |
| CNTNAP5 | 81.1 | 90.5 | 113.5 | 101.5 | 100.2 | 106.9 | 82 | 78.7 |
| CNTROB | 112.3 | 131.2 | 119.1 | 110 | 109.3 | 131.8 | 110.2 | 124.3 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| COASY | 2477.3 | 3071.9 | 1176.9 | 1149.4 | 955.6 | 993.9 | 1712.9 | 1645.9 |
| COASY | 467.4 | 542.7 | 258 | 218.4 | 204.6 | 227.1 | 337.2 | 589 |
| COBL | 98.9 | 106.9 | 92.8 | 87.1 | 97.8 | 89 | 100.4 | 125.9 |
| COBLL1 | 85 | 83.1 | 94 | 89.4 | 95.8 | 93.1 | 95 | 94.8 |
| COBRA1 | 440.3 | 623.5 | 208.1 | 170.1 | 142.3 | 113.1 | 323.3 | 502.5 |
| COBRA1 | 918.8 | 1396.4 | 1331.4 | 837 | 773.4 | 1247 | 818.3 | 1895.6 |
| COBRA1 | 1348.4 | 1669.8 | 1843.3 | 1405.4 | 1108.6 | 1800.6 | 1292 | 2865.1 |
| COCH | 137.2 | 152.3 | 101.4 | 106.4 | 102 | 115.2 | 129.3 | 157.3 |
| COG1 | 175.6 | 223.6 | 159.4 | 178.2 | 150.1 | 187.2 | 156.3 | 196.8 |
| COG2 | 925.2 | 1219.3 | 799.4 | 757.6 | 609.4 | 968.2 | 781.9 | 846.7 |
| COG3 | 173.9 | 209.1 | 138.5 | 161.9 | 150.1 | 188.4 | 183 | 306.1 |
| COG4 | 199 | 226.4 | 128.6 | 133.1 | 126.9 | 178.3 | 161.2 | 220.2 |
| COG5 | 193.1 | 239 | 128 | 143.2 | 129.4 | 154.5 | 145.9 | 210.1 |
| COG5 | 257.3 | 302.3 | 139.3 | 151.1 | 136.6 | 204.3 | 225.6 | 387.1 |
| COG6 | 262.3 | 353.1 | 187.8 | 214.2 | 184 | 313.2 | 227.2 | 293.7 |
| COG7 | 172.3 | 213.8 | 175.5 | 156.2 | 124.4 | 165.2 | 167 | 264.7 |
| COG8 | 227.2 | 304.1 | 168.9 | 120.6 | 113.2 | 121.2 | 193.9 | 249.6 |
| COIL | 1206.8 | 1730.1 | 799.9 | 937.2 | 734.4 | 1404.1 | 1008.5 | 1735.1 |
| COL10A1 | 84.5 | 86.6 | 97.5 | 86.1 | 88 | 93.8 | 86.4 | 82 |
| COL11A1 | 129 | 152.6 | 107.6 | 97.1 | 102.7 | 102.3 | 127.5 | 114.9 |
| COL11A1 | 75.2 | 98.3 | 92.1 | 79.9 | 70.6 | 83.8 | 98.7 | 88.8 |
| COL11A1 | 86 | 94.5 | 103.8 | 86.8 | 85.1 | 98.3 | 81.9 | 102.1 |
| COL11A1 | 94.4 | 100 | 95.9 | 91.9 | 82.4 | 88.2 | 100.9 | 127.2 |
| COL11A2 | 116.8 | 121.5 | 97.3 | 92.4 | 94.3 | 96.5 | 118 | 123.1 |
| COL11A2 | 95.8 | 117.6 | 102.1 | 89.8 | 86.6 | 97.5 | 99.5 | 119.3 |
| COL12A1 | 159.8 | 187.8 | 124.1 | 106.5 | 104.9 | 113.9 | 150.4 | 170.9 |
| COL12A1 | 119.1 | 139.9 | 96.6 | 97.6 | 85.9 | 86.4 | 127.8 | 150.5 |
| COL13A1 | 103.7 | 108.9 | 113.4 | 101.5 | 93.9 | 102.4 | 97.5 | 98.7 |
| COL13A1 | 120.4 | 118.5 | 97.3 | 94.7 | 93.1 | 89.8 | 107.8 | 122 |
| COL15A1 | 124.3 | 155.2 | 122.4 | 141 | 103.2 | 171.7 | 121 | 167.3 |
| COL16A1 | 111.7 | 115.6 | 97.4 | 78.4 | 77.7 | 90.9 | 109.5 | 110 |
| COL17A1 | 90.2 | 110.4 | 82 | 79.1 | 84.2 | 84 | 102 | 104.6 |
| COL17A1 | 107.3 | 117.6 | 86 | 81.4 | 93.5 | 80.9 | 100.3 | 127.9 |
| COL18A1 | 107.8 | 129.1 | 99.3 | 187.2 | 152.4 | 186 | 107.4 | 112.4 |
| COL18A1 | 114.1 | 117.6 | 87.4 | 86.6 | 80.8 | 82.6 | 104.3 | 131.2 |
| COL19A1 | 68.6 | 80 | 88.9 | 89.5 | 86.8 | 80.2 | 86.6 | 81 |
| COL1A1 | 101.8 | 114.6 | 99.4 | 114.3 | 120.1 | 119.2 | 103.2 | 112.6 |
| COL1A2 | 102.5 | 108.7 | 89.1 | 85 | 84.4 | 92.1 | 95 | 119.7 |
| COL20A1 | 106.4 | 110.1 | 96.8 | 93.9 | 89.2 | 98.3 | 106.8 | 119.7 |
| COL21A1 | 77.2 | 77.7 | 91.3 | 78.8 | 76.5 | 85.5 | 80.2 | 77.3 |
| COL22A1 | 104.1 | 147.5 | 103.7 | 92.7 | 85.8 | 95 | 103 | 125 |
| COL23A1 | 210.9 | 250.9 | 219.9 | 268.4 | 239.2 | 393.9 | 184.8 | 366.5 |
| COL24A1 | 116.7 | 144.3 | 124.3 | 161.6 | 156.1 | 240.1 | 139.5 | 195.2 |
| COL25A1 | 95.7 | 114.1 | 93.2 | 83 | 86.8 | 82.5 | 111.1 | 128.6 |
| COL25A1 | 82.6 | 94.3 | 87.9 | 75.6 | 79.1 | 85.6 | 81 | 94.3 |
| COL25A1 | 101.5 | 133.2 | 91.8 | 92.3 | 74.3 | 82.4 | 99.1 | 107.6 |
| COL27A1 | 127.1 | 131.2 | 113.4 | 102.1 | 97 | 117.9 | 96.8 | 116.9 |
| COL2A1 | 143.7 | 175.6 | 92.5 | 90.2 | 82.8 | 93.4 | 131.5 | 173.7 |
| COL2A1 | 101.4 | 114.7 | 92.5 | 87.4 | 88.3 | 90.7 | 101.6 | 95.8 |
| COL3A1 | 86.4 | 90.4 | 94.1 | 86.2 | 84.4 | 76.2 | 88 | 90.1 |

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|----------|---------|---------|--------|--------|--------|--------|--------|---------|
| COL4A1 | 371.5 | 487.7 | 239.9 | 478.4 | 403.6 | 547.7 | 311.7 | 377 |
| COL4A2 | 152 | 172.7 | 96.5 | 94.7 | 104.3 | 152.7 | 139.2 | 161.4 |
| COL4A3 | 72.2 | 82.4 | 82.3 | 77.8 | 77.9 | 74.4 | 79.3 | 86.1 |
| COL4A3 | 110.1 | 110.8 | 99.8 | 93.8 | 86.2 | 82.5 | 104 | 109.4 |
| COL4A3BP | 152.4 | 161 | 97.5 | 99.7 | 98.4 | 96.1 | 131.8 | 179.2 |
| COL4A3BP | 589.7 | 677.1 | 284.3 | 436.1 | 375.8 | 409.7 | 474 | 728.4 |
| COL4A4 | 81.9 | 92.9 | 90.3 | 88.2 | 86.7 | 81.5 | 82.2 | 95.5 |
| COL4A5 | 173.6 | 197.7 | 143.1 | 106.5 | 100.8 | 119.2 | 155.1 | 170.9 |
| COL4A5 | 71.6 | 69.5 | 89.2 | 85.3 | 83.2 | 81.4 | 71.7 | 79.2 |
| COL4A6 | 89.8 | 85.1 | 89.3 | 90 | 88.5 | 82.9 | 71.1 | 77.8 |
| COL4A6 | 88.7 | 93.4 | 91.3 | 80.3 | 83.2 | 85.9 | 94.1 | 100.5 |
| COL4A6 | 111.3 | 101.1 | 95.1 | 80.6 | 75.2 | 84.2 | 94.9 | 100 |
| COL5A1 | 103.3 | 107.1 | 105.3 | 96.4 | 80.9 | 83.6 | 107.5 | 123.7 |
| COL5A2 | 102 | 125.3 | 101.4 | 118 | 92.7 | 100.7 | 104.4 | 133.8 |
| COL5A3 | 79.4 | 92.9 | 91.5 | 83.8 | 70.5 | 78.9 | 88.2 | 82.3 |
| COL6A1 | 131 | 153.7 | 142.4 | 196.7 | 213.1 | 239.8 | 121.5 | 182.5 |
| COL6A2 | 107.8 | 109.5 | 108.5 | 102.4 | 88.3 | 104.1 | 107.6 | 107 |
| COL6A2 | 95.3 | 106.5 | 119.1 | 119 | 95 | 111.1 | 89.4 | 116.5 |
| COL6A2 | 184.9 | 208.4 | 111.4 | 97 | 97.2 | 107.7 | 163.9 | 188.2 |
| COL6A3 | 70.4 | 74.2 | 92 | 82.6 | 73.3 | 82.7 | 77.4 | 78.8 |
| COL6A3 | 104.9 | 118.5 | 100.1 | 107.4 | 93.9 | 102.8 | 109.1 | 106 |
| COL7A1 | 136.4 | 132.2 | 159.9 | 154.1 | 170.9 | 194.4 | 117.5 | 177.6 |
| COL8A1 | 121 | 133.8 | 105.8 | 100.8 | 111.6 | 131.9 | 140.6 | 158 |
| COL8A1 | 79.3 | 83.9 | 81 | 87 | 76.5 | 85.4 | 96.2 | 96 |
| COL8A1 | 98.2 | 98.5 | 94.8 | 88.6 | 89.3 | 85.1 | 97.2 | 99.5 |
| COL8A2 | 404.5 | 504.9 | 234.1 | 220.4 | 185.1 | 282.8 | 194.7 | 248.1 |
| COL9A1 | 112.1 | 137.8 | 106.8 | 106.9 | 98.9 | 98.8 | 116.2 | 117.6 |
| COL9A1 | 110.6 | 124.3 | 89.3 | 88.1 | 78 | 91.4 | 104.2 | 137.8 |
| COL9A1 | 126.2 | 197.4 | 94.5 | 81.2 | 78.3 | 84.6 | 132 | 162.5 |
| COL9A1 | 81.5 | 83.9 | 85.6 | 80.7 | 81.1 | 91.1 | 81.9 | 92.9 |
| COL9A2 | 2082.5 | 2566 | 3521.2 | 3667.1 | 4133.6 | 7382 | 1978.6 | 4095 |
| COL9A3 | 162.3 | 177.5 | 98.5 | 98.8 | 91.1 | 103.8 | 143.9 | 151.1 |
| COLEC10 | 75.1 | 78.8 | 97.3 | 84.5 | 76.9 | 81.5 | 70.4 | 79.6 |
| COLEC11 | 85.3 | 91.6 | 93.5 | 85 | 79.5 | 85.1 | 81 | 98.4 |
| COLEC11 | 76.9 | 76.4 | 90.5 | 88.9 | 83 | 81.3 | 77.4 | 78 |
| COLEC11 | 125.8 | 172 | 100.5 | 94.8 | 85.3 | 79.9 | 127.9 | 143.8 |
| COLEC12 | 77.8 | 91.9 | 98.5 | 91.9 | 102.9 | 96.6 | 84.4 | 93 |
| COLEC12 | 95.9 | 91.4 | 79.1 | 81.4 | 76.7 | 86 | 98.5 | 89 |
| COLQ | 147.7 | 157.1 | 103.6 | 87.1 | 83.1 | 94.6 | 122.6 | 156.6 |
| COLQ | 91.3 | 106.2 | 94.9 | 89 | 90.5 | 81.4 | 86 | 94.4 |
| COLQ | 89.7 | 88.6 | 108.9 | 92.3 | 92.3 | 101.3 | 87.9 | 96.6 |
| COLQ | 90.1 | 108.9 | 110.8 | 98.5 | 106.8 | 98.8 | 85.4 | 85.6 |
| COMMD1 | 1550.6 | 1619.8 | 1041.9 | 1030.1 | 756.4 | 894.4 | 1356.7 | 1554.9 |
| COMMD10 | 1239.6 | 1550.1 | 739.9 | 737.9 | 516.3 | 1157 | 955.9 | 1325.3 |
| COMMD2 | 1127.2 | 1329.5 | 711.8 | 597.1 | 457.8 | 535 | 1079.9 | 1493.3 |
| COMMD3 | 10250.7 | 12167.3 | 8388.2 | 5889.9 | 5337.6 | 7111.9 | 8319.6 | 10001.4 |
| COMMD4 | 2480.7 | 3052.8 | 1829.6 | 1356.5 | 1200.7 | 1382.1 | 2455 | 3144.1 |
| COMMD5 | 2029.6 | 2676.5 | 1153.6 | 616.1 | 536.3 | 746.9 | 1914.3 | 2220.3 |
| COMMD5 | 254.5 | 330.3 | 189.1 | 133.5 | 117.4 | 115.1 | 254.8 | 250.4 |
| COMMD6 | 7635.1 | 9364.6 | 4527.6 | 5574.9 | 4412.6 | 6271.7 | 6775.4 | 7703.8 |

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|--------|---------|---------|---------|--------|--------|--------|---------|---------|
| COMMD6 | 88.1 | 89.5 | 86.9 | 93.9 | 79 | 88.3 | 72.4 | 85.7 |
| COMMD7 | 4457.7 | 5116.4 | 3312 | 2208.8 | 1759.6 | 2595.8 | 4000.4 | 4756.3 |
| COMMD8 | 178.3 | 182 | 129.2 | 107.7 | 100.8 | 118.2 | 170.7 | 278.1 |
| COMMD9 | 841.9 | 1114.2 | 486.3 | 378.9 | 364.7 | 486.4 | 770.7 | 997.6 |
| COMP | 91.6 | 103 | 92.5 | 72.5 | 79 | 92.9 | 96 | 101.7 |
| COMT | 1014 | 1310.4 | 339.9 | 216.4 | 212.7 | 191.1 | 895.5 | 975.9 |
| COMT | 10564.8 | 13092.5 | 11818.5 | 7448.1 | 6512.7 | 7148.7 | 11619.1 | 12140.8 |
| COMTD1 | 224.9 | 290 | 209.2 | 158.7 | 149.5 | 156.2 | 171.9 | 269.7 |
| COP1 | 161.8 | 184.1 | 105.5 | 108.2 | 90.8 | 104.3 | 159.7 | 186.6 |
| COP1 | 105.6 | 131.5 | 105.6 | 94.5 | 92.6 | 99.7 | 106.1 | 127.2 |
| COPA | 4069.6 | 4592.8 | 2770.4 | 2827.3 | 2212.6 | 2804.7 | 3951.7 | 4846.5 |
| COPB | 1730.5 | 2162.3 | 1185.9 | 1319.4 | 904.3 | 2030.9 | 1396.8 | 3172.2 |
| COPB2 | 2116.7 | 2658.2 | 1772.4 | 2299 | 1878.5 | 3259.3 | 1536.4 | 2247.8 |
| COPE | 2169.1 | 2892.5 | 1783.4 | 1110.9 | 879 | 985.6 | 1992.7 | 2639.5 |
| COPE | 3604.6 | 4603.8 | 1824.1 | 1051.3 | 869.9 | 1275.4 | 3351.9 | 4605.9 |
| COPG | 626.6 | 915.8 | 552.6 | 501.7 | 391.4 | 529 | 510.9 | 813.8 |
| COPG2 | 226.4 | 330 | 190.1 | 269 | 245.5 | 408.4 | 218.6 | 245 |
| COPS2 | 89.2 | 106.2 | 90.5 | 95.6 | 93.6 | 87.8 | 89.2 | 110 |
| COPS3 | 2917.1 | 3717.4 | 2137.5 | 1941.3 | 1493.6 | 2381.5 | 2664.7 | 3454.5 |
| COPS4 | 1468.2 | 1932.2 | 654.7 | 627.3 | 407 | 692.4 | 1190.4 | 1851.4 |
| COPS5 | 6839.5 | 8697.7 | 5087.6 | 3182.8 | 2519.9 | 4071.2 | 5648.9 | 9319.7 |
| COPS6 | 930.5 | 1185.1 | 726.7 | 636.6 | 518.3 | 706.2 | 813.3 | 927.7 |
| COPS7A | 1473.2 | 1812.2 | 993.5 | 1164.7 | 876.1 | 1531.7 | 1241.2 | 1604.8 |
| COPS7B | 1134.5 | 1389.1 | 938.4 | 694.6 | 553.8 | 739.3 | 926.8 | 1174.5 |
| COPS8 | 105.3 | 118.6 | 98.7 | 85.2 | 83.7 | 78.9 | 89.8 | 98 |
| COPS8 | 485.2 | 698.4 | 218 | 177.9 | 154.4 | 274.7 | 438.3 | 618 |
| COPZ1 | 1722 | 2348.1 | 1306.9 | 898.4 | 698.2 | 1232.9 | 1513.6 | 1785.5 |
| COPZ2 | 225.5 | 281 | 163.4 | 178.7 | 163.3 | 201.1 | 179 | 267.3 |
| COQ10A | 302.5 | 354.2 | 224.3 | 196.3 | 178.4 | 221.6 | 217 | 278 |
| COQ10B | 1239.4 | 1845.2 | 990.5 | 934.7 | 868.6 | 1306.6 | 1087.2 | 1572.3 |
| COQ2 | 3162.1 | 4361.6 | 2273 | 1794.4 | 1198.7 | 1884.3 | 2985.7 | 4458.3 |
| COQ3 | 1265.7 | 1616.7 | 517.1 | 501 | 344.9 | 512.7 | 1026.5 | 1137.7 |
| COQ5 | 2239.8 | 2968.6 | 1809.6 | 1607.6 | 1284.5 | 1981 | 2040.2 | 2363.1 |
| COQ6 | 320.4 | 403.8 | 193.3 | 135.8 | 147.2 | 172.2 | 258.2 | 309.5 |
| COQ6 | 627.3 | 783.4 | 563.2 | 490.2 | 385.7 | 628.6 | 527.4 | 736.4 |
| COQ7 | 215.4 | 275.8 | 182.6 | 179.8 | 144 | 160.3 | 194.8 | 210.2 |
| COQ9 | 1221.2 | 1569.8 | 962.4 | 660.3 | 512.4 | 935.5 | 999.6 | 1769 |
| CORIN | 79.4 | 90.8 | 92.7 | 81.7 | 81.3 | 79.3 | 82.5 | 85.7 |
| CORO1A | 3119.2 | 4513.5 | 2324.9 | 1160.4 | 897.1 | 1322.9 | 2563.2 | 4210.7 |
| CORO1B | 214.1 | 263.8 | 196.8 | 140.5 | 139.4 | 174.2 | 201.1 | 307.7 |
| CORO1B | 1191.2 | 1442.7 | 1133.6 | 996 | 798 | 1157.3 | 1194.1 | 2136.9 |
| CORO1C | 572.3 | 722.6 | 356.8 | 428.8 | 339 | 613.4 | 482.7 | 786.6 |
| CORO2A | 645.4 | 825.5 | 645.5 | 721.8 | 604.9 | 908.6 | 478 | 723.2 |
| CORO2A | 180.9 | 210.1 | 143.4 | 150.9 | 151.1 | 188.8 | 139.8 | 146.6 |
| CORO2A | 105.3 | 125.9 | 75 | 74.2 | 73.3 | 72.8 | 102.9 | 138.5 |
| CORO2B | 85.2 | 88.3 | 90.1 | 88.6 | 94.5 | 91 | 86.3 | 85.1 |
| CORO6 | 118.8 | 132.7 | 124.5 | 108.3 | 113.6 | 132.2 | 103.7 | 129.4 |
| CORO7 | 301.4 | 375.7 | 401.9 | 392.4 | 316.7 | 628 | 264.4 | 435.2 |
| CORT | 94.1 | 111.6 | 109.9 | 98.2 | 88.1 | 91.2 | 101.1 | 109.8 |
| COTL1 | 166.9 | 213 | 113.8 | 127.7 | 117.5 | 108.9 | 151.2 | 292.1 |

| | | | | | | | | |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| COVA1 | 420.2 | 594.4 | 316.8 | 360 | 280.4 | 431.2 | 322.2 | 492.2 |
| COVA1 | 85.1 | 95.2 | 109.9 | 92.4 | 89.7 | 103.6 | 85.5 | 94.2 |
| COVA1 | 124.9 | 150.4 | 136.8 | 140.6 | 132.3 | 167.1 | 122.3 | 170.3 |
| COX10 | 785.5 | 933.6 | 497.9 | 552 | 453.1 | 688.6 | 632.6 | 667.1 |
| COX11 | 134.6 | 186.8 | 113.5 | 112.2 | 99 | 123.5 | 141.4 | 168.7 |
| COX11P | 76 | 89.8 | 84.1 | 78.2 | 86.4 | 84.6 | 79.4 | 88.4 |
| COX15 | 113.2 | 147.3 | 99.5 | 84.5 | 78.7 | 85.5 | 112.9 | 105.9 |
| COX15 | 283.6 | 349.8 | 273.1 | 203.9 | 167.5 | 205 | 254.7 | 257.1 |
| COX17 | 7569.2 | 8334.1 | 6117 | 4901.5 | 3732.8 | 5275.1 | 6269.3 | 9058.5 |
| COX4I1 | 23064.6 | 26137.6 | 19719.6 | 16467.1 | 14186.9 | 17369.1 | 22685.3 | 24290.8 |
| COX4I2 | 91.8 | 97.9 | 100.9 | 90.2 | 89.7 | 100.2 | 89.8 | 99.9 |
| COX4NB | 524.5 | 836.9 | 372.7 | 283.8 | 203.4 | 359 | 503.4 | 821.7 |
| COX5A | 15347.9 | 19242.9 | 12127.7 | 11240.9 | 8386.3 | 10247.4 | 18591 | 22280.4 |
| COX5B | 11071 | 13636.2 | 7002.2 | 6464.1 | 5217.7 | 7138.3 | 8792.9 | 9013.4 |
| COX6A1 | 2693.9 | 3486.4 | 1392.3 | 1287 | 1062.7 | 1782.8 | 2273.4 | 2660.1 |
| COX6A2 | 65.6 | 84.4 | 98.7 | 88.9 | 86.5 | 79.4 | 81.9 | 81.7 |
| COX6B1 | 11901 | 13314.5 | 11909.1 | 9604.6 | 6761.4 | 10801.1 | 9809.5 | 13223.5 |
| COX6B2 | 92.3 | 97.3 | 108.1 | 96.7 | 89.4 | 91.2 | 88.7 | 102.8 |
| COX6C | 18535.2 | 20638.5 | 9394.7 | 8141.5 | 7128.6 | 8207.5 | 16396 | 17475.7 |
| COX7A1 | 103.6 | 115.2 | 92.5 | 79.7 | 79.3 | 94.2 | 116.6 | 122.3 |
| COX7A2 | 28119.8 | 28869.4 | 19677.1 | 19190.9 | 14926.2 | 21582.9 | 24397.7 | 27397.2 |
| COX7B | 5090.7 | 5193.9 | 1710.4 | 2332.2 | 1521.5 | 2565.4 | 4540.6 | 7497.7 |
| COX7B2 | 85 | 89.6 | 84.5 | 79.1 | 73.3 | 75 | 85.2 | 87.3 |
| COX7C | 24601.8 | 28685.7 | 22098.2 | 19831.7 | 15180.4 | 20907.1 | 22665.4 | 26627 |
| COX8A | 14637.1 | 17349.7 | 11430.1 | 6174 | 5450.9 | 6057.1 | 12180 | 13337.3 |
| COX8C | 118.7 | 130.5 | 94.8 | 93.8 | 83.2 | 83.5 | 105.8 | 120 |
| CP | 86.1 | 104 | 99.8 | 95.7 | 86.1 | 90.4 | 87.9 | 87.3 |
| CP110 | 1557.5 | 1874.1 | 742.8 | 623.6 | 595.4 | 1065.3 | 978.1 | 1461.9 |
| CPA1 | 90.5 | 98.9 | 77.6 | 79.4 | 74.7 | 80.4 | 87.5 | 94.9 |
| CPA2 | 79.8 | 91.4 | 95.4 | 78.4 | 78.3 | 85.8 | 85.5 | 91.4 |
| CPA3 | 107 | 125.4 | 91.7 | 93.1 | 84.7 | 95.8 | 117.2 | 125.5 |
| CPA4 | 78.6 | 90.3 | 93.1 | 94.1 | 82.9 | 85.6 | 92.7 | 83.3 |
| CPA5 | 112.4 | 118.5 | 96 | 83.3 | 89.6 | 88.3 | 112.7 | 130.8 |
| CPA6 | 84.3 | 80.7 | 86.8 | 73.6 | 70.1 | 75.6 | 84.2 | 88.9 |
| CPAMD8 | 83.4 | 102 | 86.4 | 86.4 | 82.9 | 89.5 | 90.9 | 111.6 |
| CPB1 | 129.2 | 129.4 | 93.8 | 87.5 | 90.9 | 83.7 | 120.1 | 167.9 |
| CPB2 | 101.2 | 131.3 | 84.7 | 83.9 | 87.5 | 86.1 | 102.1 | 114.6 |
| CPB2 | 81.1 | 81.6 | 85.8 | 85.9 | 77 | 86.5 | 76.6 | 86.2 |
| CPB2 | 80.9 | 89 | 119.2 | 107.9 | 94.2 | 99.1 | 84.2 | 87.1 |
| CPD | 775.9 | 1201 | 458.3 | 1378 | 1018.4 | 1868.7 | 841.1 | 977.8 |
| CPE | 253.7 | 277.1 | 165.5 | 112 | 96.6 | 107.4 | 247.2 | 464.4 |
| CPEB1 | 98.8 | 128.9 | 80.1 | 94.2 | 80.8 | 91.2 | 115.3 | 121.9 |
| CPEB1 | 91 | 96.4 | 95.8 | 91.5 | 81.5 | 86.3 | 90.7 | 106.6 |
| CPEB1 | 95.1 | 109.9 | 99.4 | 93.9 | 91.4 | 99.8 | 85 | 100 |
| CPEB2 | 130.1 | 166 | 95.6 | 80.9 | 71.7 | 88.1 | 114.2 | 157.4 |
| CPEB2 | 364.8 | 492.9 | 339 | 446.1 | 332.4 | 632.1 | 366.5 | 738.2 |
| CPEB3 | 90.4 | 91.4 | 93 | 97.9 | 93.5 | 88.8 | 99.8 | 113.6 |
| CPEB4 | 116.1 | 140.1 | 81.9 | 97 | 85.4 | 93.7 | 126.9 | 141.8 |
| CPLX1 | 80.2 | 89.5 | 86.4 | 99.2 | 81.5 | 79.2 | 81.1 | 88.9 |
| CPLX2 | 113.6 | 165.5 | 106.1 | 97.5 | 75.4 | 76.7 | 113.3 | 139.7 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| CPLX2 | 91.7 | 94.1 | 97.6 | 89.1 | 88.5 | 81 | 92.8 | 103.6 |
| CPLX3 | 83.8 | 100.8 | 93.2 | 86.2 | 82.7 | 86 | 85.9 | 94.6 |
| CPM | 90.2 | 107.8 | 102.9 | 101.7 | 89.8 | 108.8 | 89.4 | 90.9 |
| CPM | 282 | 381.1 | 176.1 | 151.9 | 123.4 | 196.1 | 220.9 | 284.3 |
| CPN1 | 84.1 | 93.1 | 95.4 | 84.4 | 84.9 | 87.7 | 83 | 96.2 |
| CPN2 | 125.5 | 158 | 101 | 90.8 | 86.5 | 98.7 | 123.9 | 125.2 |
| CPN2 | 95.7 | 90.3 | 103.3 | 97.2 | 90.3 | 95.7 | 89.6 | 91.6 |
| CPNE1 | 181.2 | 218.1 | 100.6 | 107.3 | 77.9 | 88.5 | 149.9 | 195.6 |
| CPNE1 | 1439.5 | 1945.9 | 886.4 | 739.2 | 614.7 | 834.9 | 1281.5 | 2049.2 |
| CPNE1 | 1183.7 | 1490.1 | 1018.4 | 632.4 | 569.8 | 792.9 | 966.4 | 1203 |
| CPNE2 | 141.1 | 193.2 | 145.6 | 111.5 | 103.3 | 126.9 | 145.3 | 169.7 |
| CPNE3 | 1317 | 1711.9 | 1226.8 | 1056.5 | 808.8 | 1438.2 | 1222.8 | 2523.6 |
| CPNE4 | 91.4 | 97.3 | 110.9 | 104.6 | 90.8 | 100.4 | 94.8 | 97.2 |
| CPNE5 | 89.1 | 106.5 | 103.1 | 92.9 | 83.3 | 93.9 | 93.1 | 100.3 |
| CPNE6 | 83.5 | 90.5 | 90.5 | 84.4 | 86.6 | 92 | 83.4 | 96.9 |
| CPNE7 | 98.4 | 127.7 | 92.3 | 87.5 | 82.9 | 93.5 | 100.9 | 124.6 |
| CPNE8 | 1301.6 | 1611.9 | 504.2 | 637.5 | 499.9 | 739.3 | 910.4 | 1246.9 |
| CPNE9 | 124.9 | 129.6 | 94.9 | 97.5 | 78.5 | 87.8 | 115.4 | 125.3 |
| CPO | 117.3 | 123.8 | 84.9 | 81.6 | 80.8 | 91.3 | 107 | 107.1 |
| CPS1 | 173 | 244 | 181 | 90.9 | 89 | 103 | 200.5 | 246.2 |
| CPSF1 | 1190.2 | 1237.3 | 1094.4 | 666.9 | 661.3 | 740.2 | 787.1 | 759.7 |
| CPSF2 | 561.4 | 899 | 462.8 | 381.7 | 355.3 | 432.4 | 498.3 | 521.5 |
| CPSF3 | 4174.4 | 6216.2 | 1621.6 | 1783.7 | 1083.9 | 2080.4 | 4070.1 | 4733.5 |
| CPSF3L | 233.2 | 339.6 | 193.6 | 188.8 | 180.4 | 210.4 | 229.8 | 310.9 |
| CPSF3L | 180.5 | 228.5 | 142.7 | 147.7 | 135.8 | 160.7 | 190.9 | 241.9 |
| CPSF4 | 3366.1 | 4108.7 | 2672.4 | 2214.2 | 1971.2 | 2452.4 | 2975.4 | 3234 |
| CPSF4 | 140.1 | 177.5 | 118.7 | 95.9 | 102.2 | 119 | 143.6 | 188.3 |
| CPSF6 | 201.3 | 226.8 | 129.8 | 127.3 | 117.8 | 165.9 | 160 | 271.1 |
| CPT1A | 117.3 | 151.8 | 103.6 | 94.5 | 85.1 | 83.6 | 121.7 | 126.7 |
| CPT1A | 117 | 122.8 | 111.3 | 95.3 | 97.8 | 96.8 | 119.4 | 141.8 |
| CPT1A | 255.8 | 328.1 | 220.3 | 226.1 | 185.1 | 189.6 | 225 | 362.8 |
| CPT1B | 193.2 | 220.6 | 190.7 | 182.6 | 173.9 | 285.2 | 180 | 276.9 |
| CPT1B | 124.3 | 131.7 | 112.9 | 125.8 | 111.1 | 107.5 | 102.4 | 110.6 |
| CPT1C | 88.7 | 97.3 | 98.9 | 91 | 97.8 | 90.8 | 89.6 | 93.4 |
| CPT2 | 1479.3 | 1840.5 | 1242.7 | 1337 | 959.8 | 1174.1 | 1293.7 | 1844.2 |
| CPVL | 2095.4 | 2711.5 | 1682.5 | 2278.6 | 1701.2 | 2363.9 | 1710.7 | 2765.2 |
| CPVL | 1104.2 | 1582.2 | 581.9 | 706.8 | 572.2 | 901.8 | 823.8 | 1228.6 |
| CPXCR1 | 110 | 125.1 | 89.9 | 83.2 | 88.6 | 82.1 | 99.1 | 118.6 |
| CPXM | 123.2 | 141.1 | 100.2 | 100.4 | 87.1 | 82.8 | 124.4 | 136.6 |
| CPXM2 | 84.6 | 100.3 | 105.3 | 99.1 | 103.1 | 97.2 | 89.8 | 95.6 |
| CPZ | 104.5 | 115.6 | 92.1 | 94.2 | 85.4 | 92 | 93.6 | 99.7 |
| CPZ | 91.4 | 99.8 | 92.1 | 87.8 | 95.4 | 90.7 | 85.7 | 90.4 |
| CPZ | 80 | 84.7 | 91.3 | 89.1 | 90.8 | 95.5 | 84.6 | 84.2 |
| CR1 | 90.5 | 97.9 | 92.8 | 94.7 | 81.5 | 97.8 | 91.4 | 97.8 |
| CR1 | 81.1 | 95.8 | 88.8 | 81 | 72.7 | 77.8 | 83 | 89.4 |
| CR1 | 89.7 | 84.7 | 73.6 | 80.6 | 76.6 | 76.2 | 86.9 | 98.8 |
| CR2 | 80.4 | 93.8 | 86 | 73.2 | 71.6 | 82.1 | 83.8 | 93 |
| CR2 | 86.9 | 94 | 101.2 | 103.2 | 99.7 | 104.6 | 93.9 | 84.2 |
| CRABP1 | 934.1 | 1354.4 | 705.7 | 542.6 | 409.1 | 670 | 1016.3 | 1617.3 |
| CRABP2 | 133.2 | 155.7 | 105.7 | 92.3 | 94.9 | 100.8 | 130.5 | 142 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| CRADD | 364.8 | 469.2 | 286 | 288.4 | 234.1 | 281.6 | 376.5 | 449.3 |
| CRAMP1L | 237.2 | 322.6 | 263.2 | 238.7 | 231.1 | 305.5 | 235.5 | 428.4 |
| CRAT | 139.5 | 136.4 | 133.2 | 145 | 107.6 | 136.3 | 134.3 | 167.2 |
| CRAT | 103.3 | 128.1 | 100.9 | 94.6 | 93.5 | 99.4 | 114.6 | 118.7 |
| CRB1 | 82.4 | 101.4 | 100.7 | 95.5 | 88.7 | 91.6 | 99.3 | 90.7 |
| CRB2 | 102.5 | 110.7 | 88.1 | 84.7 | 84.6 | 83.2 | 97 | 93.8 |
| CRB3 | 97.7 | 95.4 | 91.8 | 87 | 93.7 | 77.9 | 82.7 | 89.7 |
| CRB3 | 96.5 | 103 | 99.6 | 86.5 | 96.1 | 102.7 | 96.5 | 98.8 |
| CRB3 | 81.1 | 109.8 | 96.1 | 101.3 | 95.1 | 89.3 | 90 | 97.5 |
| CRBN | 579.1 | 738 | 336.1 | 291.8 | 273.3 | 487.9 | 551.7 | 813.4 |
| CREB1 | 2142.7 | 1796.6 | 1330.3 | 1763.7 | 1499.3 | 1284 | 2112.6 | 3433.2 |
| CREB3 | 140.8 | 178.9 | 95.9 | 98.3 | 83.4 | 76.8 | 139.1 | 165.7 |
| CREB3L1 | 106.3 | 124.6 | 99.5 | 94.9 | 91.2 | 89 | 96.7 | 127.6 |
| CREB3L2 | 678.2 | 1004.7 | 698.9 | 939.6 | 795.9 | 1143.8 | 762.2 | 1265.7 |
| CREB3L3 | 80.9 | 92.5 | 91 | 82.7 | 80 | 79.7 | 79.6 | 82.9 |
| CREB3L4 | 137.8 | 167.7 | 98.5 | 90.1 | 87.3 | 94.6 | 116.5 | 140.3 |
| CREB5 | 101.5 | 115.7 | 83.8 | 72.8 | 74.4 | 80.1 | 97.7 | 113 |
| CREB5 | 79.4 | 84.7 | 84.7 | 83 | 79.1 | 87.5 | 74.7 | 77 |
| CREB5 | 85.4 | 99.9 | 90.9 | 97.5 | 95.5 | 94.9 | 86.5 | 89.4 |
| CREB5 | 94.8 | 121.4 | 94.8 | 87.3 | 87.3 | 73.5 | 103 | 122 |
| CREB5 | 104.8 | 112.1 | 95.9 | 92 | 87.5 | 102.8 | 106.3 | 115.4 |
| CREBBP | 92.8 | 117.5 | 120.2 | 113.5 | 111 | 110.8 | 99.4 | 112.6 |
| CREBBP | 796.1 | 1007.5 | 614.7 | 860.9 | 621.7 | 987.5 | 685 | 1385.1 |
| CREBL1 | 132.8 | 196.7 | 119.8 | 120.1 | 101.8 | 100.5 | 135.1 | 154 |
| CREBL2 | 103.9 | 119.3 | 90.6 | 82.1 | 80 | 89.2 | 102 | 119.9 |
| CREG1 | 1966.9 | 2728.7 | 1128.5 | 1191.6 | 993.2 | 1590.7 | 2314.9 | 4668 |
| CREG2 | 91.8 | 106.6 | 99.1 | 96.2 | 91 | 87.9 | 92.2 | 88.3 |
| CRELD1 | 95.7 | 116.4 | 115.9 | 93.2 | 93.3 | 98.2 | 90.3 | 98.2 |
| CRELD1 | 93.7 | 108.2 | 101.8 | 86.8 | 79.5 | 87.5 | 95.4 | 117.7 |
| CRELD1 | 497.7 | 515.9 | 469.7 | 377.7 | 341.4 | 515.6 | 395.7 | 528 |
| CRELD1 | 79.1 | 85.6 | 88.9 | 90.1 | 84.6 | 91 | 82.3 | 83.4 |
| CRELD2 | 2363 | 2636.4 | 1783.9 | 2512.7 | 2059.6 | 2923.3 | 2441.9 | 2734.3 |
| CREM | 86.3 | 90 | 104.6 | 77.4 | 86.7 | 88.1 | 70.5 | 92.6 |
| CRH | 125.4 | 151.3 | 116.1 | 99.6 | 95.7 | 114.4 | 117.5 | 144.9 |
| CRHBP | 87.3 | 96 | 86.5 | 101.7 | 82.3 | 84.3 | 80.3 | 91.7 |
| CRHR1 | 170 | 221.5 | 143.5 | 143.7 | 127.6 | 145.2 | 146.7 | 180.7 |
| CRHR1 | 70.4 | 92.3 | 95.7 | 90.1 | 91 | 89.6 | 81.7 | 82.3 |
| CRHR2 | 68.1 | 81.8 | 80.6 | 78.3 | 78 | 81.5 | 70.7 | 78.3 |
| CRI1 | 199.3 | 237.6 | 171.7 | 202.5 | 192.9 | 239.2 | 162.1 | 225.8 |
| CRI2 | 452.8 | 645.1 | 215.1 | 198.8 | 163.8 | 204.6 | 379.7 | 562.3 |
| CRIM1 | 138.1 | 150.5 | 108.6 | 106.3 | 98.1 | 105.6 | 119.6 | 130 |
| CRIP1 | 4467.2 | 4920 | 2004.4 | 1142.8 | 956.3 | 1204 | 4133.5 | 5089.8 |
| CRIP2 | 94.8 | 96 | 91.6 | 77.3 | 72.7 | 81.1 | 100.7 | 138.3 |
| CRIP3 | 119.3 | 136.3 | 92 | 84.2 | 89.3 | 98.4 | 117.8 | 129.1 |
| CRIPAK | 133.6 | 130.7 | 146.6 | 156.6 | 177.6 | 199.6 | 130.2 | 166.4 |
| CRIPT | 675.5 | 939.5 | 556 | 422.7 | 360.8 | 439.9 | 726.4 | 820.3 |
| CRISP1 | 72.2 | 76.6 | 85.9 | 90.6 | 86.7 | 90.7 | 79.6 | 88.9 |
| CRISP1 | 93.5 | 88.8 | 91.1 | 85.6 | 78.6 | 85 | 87.8 | 101.6 |
| CRISP2 | 107.7 | 123.3 | 101.6 | 103 | 96.4 | 92.4 | 105 | 111.9 |
| CRISP3 | 93 | 99.1 | 116.8 | 105.6 | 109.9 | 95.6 | 84.9 | 91.8 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| CRISPLD1 | 185.7 | 206.2 | 104.9 | 103.5 | 104.8 | 151.3 | 144 | 191.9 |
| CRISPLD2 | 82.6 | 84.8 | 91.8 | 127.1 | 97 | 128.6 | 81.1 | 85.8 |
| CRK | 554.7 | 796.3 | 338 | 314.6 | 298.6 | 368.8 | 518.7 | 796.7 |
| CRK | 265.7 | 330.5 | 146 | 127.8 | 111.9 | 129.9 | 246.5 | 341.6 |
| CRKL | 2804.3 | 4065.4 | 2753.6 | 2909.9 | 2099.1 | 3604.6 | 2481.9 | 2941.7 |
| CRKRS | 274.5 | 393.9 | 269.8 | 384.8 | 275.1 | 413.7 | 260.7 | 410.7 |
| CRLF1 | 102.8 | 104.6 | 108.3 | 96.3 | 100.6 | 108.5 | 95 | 96.3 |
| CRLF2 | 102.7 | 112 | 91.6 | 86.1 | 83.5 | 99.4 | 100.4 | 99.4 |
| CRLF3 | 316 | 389.6 | 219.5 | 324.5 | 285.9 | 419.9 | 345.1 | 544.8 |
| CRMP1 | 130.1 | 138.6 | 101.6 | 103.3 | 101.3 | 109.4 | 96.4 | 133.6 |
| CRMP1 | 112.8 | 143.3 | 115.6 | 100.8 | 87.9 | 94.8 | 119.3 | 129.5 |
| CRMP1 | 89.5 | 95.3 | 103.1 | 84 | 94.4 | 97.4 | 86.9 | 94.8 |
| CRNKL1 | 111 | 129.2 | 119.6 | 128.1 | 108.9 | 150.8 | 105.3 | 134.6 |
| CRNN | 210.2 | 293 | 151.7 | 191 | 184.3 | 302.7 | 197.8 | 227.1 |
| CROCC | 168.6 | 191.4 | 121.1 | 112.2 | 104.9 | 110.8 | 155 | 178.2 |
| CROP | 444 | 373.5 | 170.4 | 193.7 | 149.1 | 258 | 230.8 | 485.3 |
| CROP | 1337.8 | 1380.3 | 582.8 | 677.1 | 529.9 | 1088.4 | 885 | 1893.8 |
| CROT | 155.1 | 177.1 | 122.4 | 144.2 | 114.4 | 152.5 | 138.6 | 215.2 |
| CRP | 88.5 | 93.8 | 85.5 | 90.9 | 82.7 | 95.5 | 84.2 | 95.1 |
| CRR9 | 2232.6 | 3277.1 | 2317.5 | 1982.5 | 1648.3 | 2414.4 | 1948.3 | 3699.7 |
| CRSP2 | 90.2 | 92.1 | 92.5 | 97.7 | 92.4 | 97.4 | 81.5 | 88.4 |
| CRSP3 | 356.2 | 426.1 | 229.9 | 296.2 | 261.8 | 423.5 | 306.6 | 571.4 |
| CRSP3 | 129 | 152.1 | 116.1 | 111.1 | 101.7 | 120.2 | 114.1 | 151.7 |
| CRSP6 | 103.7 | 150.1 | 106.7 | 101.2 | 104.4 | 105 | 115.4 | 123.2 |
| CRSP7 | 190.7 | 252.8 | 167.4 | 146.6 | 133.3 | 168.5 | 186.6 | 215.1 |
| CRSP9 | 130.2 | 143.1 | 98.5 | 84.2 | 82.3 | 105.7 | 115.9 | 173.5 |
| CRTAC1 | 100.6 | 105.6 | 89.2 | 78.2 | 78.6 | 88.5 | 98.1 | 106.9 |
| CRTAM | 82.6 | 94 | 94.9 | 83.3 | 80.6 | 80.7 | 84.8 | 98.6 |
| CRTAP | 1992.2 | 3237.1 | 1074 | 1212.3 | 932.9 | 554.2 | 1647.3 | 2105.4 |
| CRTAP | 233 | 285.9 | 191.7 | 288.8 | 271.5 | 274.2 | 197.5 | 266.1 |
| CRTC1 | 85.2 | 97.1 | 124.9 | 105.8 | 101.7 | 115.5 | 85.8 | 100.6 |
| CRTC2 | 148.8 | 167.4 | 110 | 106 | 91.8 | 109 | 156.4 | 328.6 |
| CRX | 129.2 | 146.8 | 98.1 | 87 | 91.6 | 95.7 | 128.8 | 129.2 |
| CRY1 | 255.6 | 291.6 | 161.9 | 156.7 | 125.7 | 196.9 | 219.1 | 366.9 |
| CRY2 | 209.8 | 252.8 | 147.5 | 135.8 | 117.4 | 137.8 | 185.3 | 284.1 |
| CRYAA | 94.1 | 109.4 | 91.7 | 83.8 | 78 | 84.6 | 107.9 | 115.4 |
| CRYAB | 84 | 93.2 | 91.4 | 83 | 83.1 | 85.2 | 76.7 | 83.7 |
| CRYBA1 | 80.7 | 88.8 | 92.2 | 89.9 | 84.2 | 85.9 | 82.7 | 93.9 |
| CRYBA2 | 89.9 | 90.6 | 95 | 95.2 | 85.3 | 87.9 | 89.4 | 90.6 |
| CRYBA2 | 87.6 | 98.3 | 103.4 | 99.1 | 98.5 | 97.9 | 78.8 | 93.4 |
| CRYBA4 | 95.4 | 99.2 | 95.2 | 90.1 | 88 | 88.2 | 96.5 | 95.1 |
| CRYBB1 | 131.3 | 173.3 | 112.5 | 105.2 | 99.6 | 107 | 120.9 | 153.2 |
| CRYBB2 | 511.2 | 645.7 | 395.4 | 307.7 | 273.1 | 386.5 | 452.5 | 505.6 |
| CRYBB3 | 79.8 | 85 | 85.3 | 74.8 | 80.3 | 81.5 | 83.7 | 86.6 |
| CRYGA | 131.7 | 146.1 | 119.3 | 110.1 | 109.8 | 116.1 | 117.3 | 126.4 |
| CRYGB | 116.5 | 118.5 | 89.1 | 83.3 | 75.5 | 75.3 | 101.5 | 118.4 |
| CRYGC | 91 | 95.1 | 94.6 | 80.2 | 82.9 | 85.4 | 91.4 | 90.6 |
| CRYGD | 82.9 | 84.8 | 96.2 | 80 | 78.8 | 83.5 | 81.2 | 82.5 |
| CRYGN | 114.1 | 126.9 | 93.2 | 81.7 | 84.3 | 84.5 | 118.1 | 136.4 |
| CRYGS | 145.5 | 174.9 | 114.6 | 132 | 122.4 | 144.3 | 132.4 | 179.3 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| CRYL1 | 196.2 | 254 | 180.6 | 238.2 | 236.7 | 288.8 | 179.9 | 252.8 |
| CRYM | 138.8 | 181.7 | 97.6 | 86.1 | 90 | 95.8 | 123.9 | 146 |
| CRYM | 87.3 | 87.6 | 115.3 | 106 | 106.7 | 102.7 | 94.4 | 88 |
| CRYM | 79.5 | 87.3 | 80.4 | 72.1 | 80.5 | 75.4 | 82.3 | 87.3 |
| CRYZ | 394.5 | 521.4 | 235 | 256.8 | 224.7 | 313.8 | 400.2 | 614.8 |
| CRYZL1 | 1230.8 | 1475 | 754.8 | 750.2 | 611.7 | 836.7 | 954.2 | 1327.8 |
| CS | 110 | 132 | 101.8 | 99.6 | 96.1 | 91.3 | 95.5 | 107 |
| CS | 3412.2 | 4266.7 | 4153.4 | 4407.6 | 3022.5 | 4861.2 | 3137.5 | 4730.1 |
| CS | 462.1 | 745.7 | 511.1 | 489 | 364.9 | 642.7 | 361.4 | 698.7 |
| CSAD | 204.6 | 196.1 | 169.2 | 225.7 | 212.5 | 273.2 | 147.9 | 325.2 |
| CSAG1 | 85.3 | 90.2 | 102.7 | 88.6 | 84.3 | 90.6 | 79.5 | 98.9 |
| CSAG1 | 101.1 | 100.4 | 102.8 | 84.8 | 84.8 | 80.1 | 83.9 | 90.9 |
| CSAG2 | 89.3 | 106.4 | 92.3 | 87.9 | 81.9 | 77.9 | 93.7 | 97.1 |
| CSAG2 | 102.9 | 116 | 107.7 | 97.8 | 87.6 | 92.7 | 112.8 | 109.2 |
| CSAG2 | 78.2 | 71.1 | 92.2 | 79.3 | 73.1 | 86.4 | 80.7 | 74.7 |
| CSAG3A | 94.9 | 106.9 | 108.8 | 97.7 | 100.3 | 90.8 | 101 | 106.7 |
| CSDA | 7378 | 8488 | 3052.9 | 2332.1 | 1746.4 | 1872.7 | 5815 | 7368.6 |
| CSDC2 | 81 | 86.5 | 102.1 | 102.2 | 92.5 | 95.6 | 90.5 | 85.2 |
| CSDE1 | 654.3 | 762.7 | 244.2 | 240.5 | 180.5 | 184.8 | 507.1 | 483.2 |
| CSDE1 | 362 | 488.4 | 144.2 | 174 | 170.7 | 126.5 | 232.8 | 401.8 |
| CSE1L | 3985 | 5347.2 | 2321.4 | 2012.9 | 1230.8 | 2740.6 | 2964.2 | 5031.5 |
| CSE1L | 5035 | 6246.4 | 3511.8 | 2915.6 | 2218.6 | 4123 | 3707 | 6608.7 |
| CSEN | 173.2 | 171.4 | 118.4 | 97.9 | 93 | 105.5 | 138.9 | 146.1 |
| CSF1 | 89 | 115.8 | 94.7 | 94.4 | 89.8 | 85.5 | 102.8 | 103.4 |
| CSF1 | 87.9 | 89 | 94.7 | 84.3 | 89.9 | 92 | 86.7 | 85.2 |
| CSF1 | 75.3 | 70 | 88.5 | 89.5 | 78.8 | 84.2 | 75.5 | 77.1 |
| CSF1R | 1838.7 | 2198.4 | 1244.7 | 3332.6 | 2486.6 | 3168 | 1503.3 | 1601.3 |
| CSF2 | 88.3 | 97.4 | 89.1 | 84.4 | 92.6 | 82.6 | 88.2 | 107.7 |
| CSF2RA | 559.8 | 701.1 | 269.8 | 335 | 298.7 | 381.5 | 580.6 | 873.9 |
| CSF2RA | 2386.1 | 2455.9 | 1016.6 | 1612 | 1319.8 | 1359 | 2322 | 2741 |
| CSF2RA | 622.2 | 835.7 | 447.6 | 615.3 | 483 | 699.5 | 579 | 981.5 |
| CSF2RB | 90.8 | 100.9 | 88.8 | 88.7 | 77.7 | 84.8 | 85.4 | 105.2 |
| CSF3 | 95.5 | 122.8 | 111.3 | 101.7 | 96.3 | 94.3 | 96.4 | 103.5 |
| CSF3 | 99.7 | 140.3 | 83.4 | 85 | 85.3 | 82.7 | 107.1 | 130.6 |
| CSF3 | 96.9 | 109.8 | 93.9 | 92.4 | 89 | 100.7 | 93.2 | 123 |
| CSF3R | 130.5 | 148.5 | 147.6 | 173.6 | 151.6 | 201.2 | 105.9 | 170.9 |
| CSF3R | 1689.5 | 1848.8 | 1223.6 | 2202.5 | 1997.4 | 1961 | 1231.4 | 1190.1 |
| CSSLCA-T | 192.9 | 201.1 | 198.6 | 193 | 155.9 | 196.8 | 187.6 | 371.5 |
| CSH1 | 80.1 | 79.4 | 95 | 84.3 | 83.9 | 88.9 | 74.2 | 79.1 |
| CSH1 | 96.8 | 99.4 | 92.7 | 100.7 | 79 | 89.6 | 87.6 | 94 |
| CSH2 | 93.8 | 111.3 | 89.9 | 89.8 | 86.4 | 95.3 | 95.3 | 126.6 |
| CSH2 | 73.1 | 77.4 | 89.4 | 78.8 | 84.9 | 88.4 | 77.1 | 80.7 |
| CSHL1 | 102.9 | 117 | 96.7 | 97.1 | 75.3 | 92 | 93.4 | 119.3 |
| CSHL1 | 118.6 | 135.8 | 96 | 86.3 | 82.3 | 84.8 | 104.8 | 134.9 |
| CSK | 1814.2 | 2303.8 | 2019.2 | 1569.4 | 1263.9 | 1796.5 | 1432.8 | 2411.8 |
| CSMD1 | 65.2 | 79.1 | 78 | 81.4 | 74.8 | 79 | 73.5 | 78 |
| CSMD2 | 102.5 | 129.9 | 94.5 | 92.2 | 78.5 | 85.7 | 110.4 | 128.9 |
| CSMD3 | 76.5 | 91.1 | 77.7 | 86.4 | 82.5 | 92.3 | 83.5 | 85.2 |
| CSMD3 | 91 | 92.5 | 85.4 | 85.8 | 82.7 | 87.3 | 94.3 | 93.2 |
| CSMD3 | 73.8 | 86.3 | 87.8 | 82.2 | 82.2 | 82.2 | 80.8 | 88.2 |

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|-----------|---------|---------|---------|---------|--------|--------|---------|---------|
| CSN1S1 | 92.8 | 111.2 | 105.2 | 84.7 | 83.3 | 101.2 | 93.6 | 102 |
| CSN1S1 | 98.2 | 106.8 | 88.2 | 102.6 | 82.9 | 88.6 | 101.8 | 101.5 |
| CSN2 | 81 | 95.3 | 87.4 | 81.5 | 75.4 | 75.7 | 84 | 98.7 |
| CSN3 | 80.9 | 86.2 | 91.4 | 81.6 | 80.1 | 81.4 | 77.4 | 86.3 |
| CSNK1A1 | 544.7 | 826.5 | 177 | 125.6 | 138.3 | 205.6 | 473.9 | 562.4 |
| CSNK1A1 | 134.9 | 141.4 | 117.8 | 102.3 | 103.3 | 113.3 | 123.1 | 159.4 |
| CSNK1A1 | 831.8 | 1108.8 | 492.7 | 565.3 | 459.4 | 654.4 | 670.6 | 854.3 |
| CSNK1A1L | 82.3 | 92.2 | 100 | 87.6 | 83.5 | 80.6 | 80.9 | 98.3 |
| CSNK1D | 2184.7 | 2597.7 | 1243.6 | 1238 | 1194.1 | 1311.7 | 2028.1 | 2029.1 |
| CSNK1D | 565.5 | 701 | 618.5 | 638.5 | 519.1 | 741.3 | 509.7 | 1121.6 |
| CSNK1E | 2765.9 | 3379.2 | 1267.9 | 1046.2 | 916.8 | 1306.1 | 2513.7 | 2333.6 |
| CSNK1E | 99.1 | 115.1 | 113.3 | 110.7 | 105.2 | 114.4 | 96.4 | 106.9 |
| CSNK1E | 421.1 | 535.7 | 378.8 | 154.5 | 180.7 | 209.2 | 348.5 | 674.1 |
| CSNK1G1 | 353.4 | 486 | 227.1 | 250.2 | 221.5 | 286.3 | 371.3 | 422.6 |
| CSNK1G1 | 100.5 | 111.8 | 101.4 | 99.7 | 100.8 | 87.3 | 89.1 | 102.9 |
| CSNK1G2 | 3042.1 | 3721.2 | 556.2 | 456.8 | 385.7 | 648.2 | 2592.5 | 3343.7 |
| CSNK1G3 | 91.5 | 113.3 | 96.2 | 100.1 | 92.4 | 93.9 | 93.9 | 96.8 |
| CSNK1G3 | 356.4 | 429 | 257 | 340.9 | 264.9 | 568.9 | 285.3 | 451.7 |
| CSNK1G3 | 285 | 330.2 | 148.2 | 151.2 | 130.1 | 223.5 | 252.6 | 440.6 |
| CSNK2A1 | 623.2 | 825 | 325 | 259.6 | 236.5 | 333.4 | 439.4 | 604.7 |
| CSNK2A1 | 568.2 | 754.7 | 314 | 320.3 | 217.5 | 281.7 | 384.4 | 525.5 |
| CSNK2A1 | 152.9 | 199.6 | 111.7 | 101.2 | 108.8 | 100.2 | 129.5 | 157 |
| CSNK2A1P | 410.8 | 552 | 174.4 | 158 | 126.3 | 148.2 | 319.9 | 421.4 |
| CSNK2A2 | 502.2 | 566.1 | 460.9 | 329 | 258.6 | 300 | 452.9 | 831.8 |
| CSNK2B | 8966.8 | 11252.2 | 8173.8 | 4798.1 | 3634.2 | 5137.1 | 7562.4 | 10775.9 |
| CSPG2 | 216.5 | 337.1 | 141.4 | 557 | 234.5 | 679.2 | 221.4 | 270.2 |
| CSPG3 | 127.8 | 139.7 | 126.4 | 111.5 | 104.3 | 115.1 | 115.6 | 141.9 |
| CSPG4 | 170.3 | 210.1 | 153.9 | 87.1 | 88.6 | 86.4 | 129 | 144.5 |
| CSPG4LYP2 | 87 | 94 | 82.4 | 88.6 | 80.6 | 85.4 | 88.5 | 88.5 |
| CSPG5 | 164.5 | 202.6 | 167.3 | 214 | 187.6 | 277.3 | 139.2 | 245 |
| CSPP1 | 687.4 | 715.1 | 405.5 | 417.7 | 380.3 | 649.7 | 487.2 | 704.7 |
| CSPP1 | 173.2 | 214.9 | 131.5 | 138.8 | 111.8 | 154 | 156.2 | 206.2 |
| CSRP1 | 1421 | 2106.7 | 1335.8 | 753.9 | 554.3 | 1118.3 | 1326.1 | 1864.2 |
| CSRP2 | 116.3 | 140.3 | 88.7 | 84.4 | 81.7 | 88.5 | 109.6 | 166.7 |
| CSRP2BP | 125.2 | 152.4 | 120.8 | 111.6 | 103.4 | 121.2 | 111.2 | 149.8 |
| CSRP2BP | 759.6 | 921.7 | 474 | 425.2 | 329.8 | 427.7 | 568.7 | 728.8 |
| CSRP2BP | 86.8 | 99.4 | 92.5 | 88.4 | 88.5 | 84.3 | 96.9 | 88.2 |
| CSRP3 | 73.1 | 83.3 | 89.5 | 78.4 | 81.7 | 88.2 | 70.7 | 75.4 |
| CSS3 | 178.2 | 223.6 | 173.6 | 189.5 | 144.7 | 217.7 | 151.8 | 198 |
| CST1 | 89.1 | 93.2 | 95.8 | 87.7 | 78.4 | 96.2 | 91.6 | 90.7 |
| CST11 | 74.5 | 88.1 | 98.8 | 90.6 | 77.8 | 81 | 79.3 | 78.4 |
| CST11 | 96 | 107.6 | 78.8 | 86 | 78.9 | 81.3 | 93.6 | 94 |
| CST2 | 102.6 | 117.7 | 78.9 | 82 | 81.6 | 80.4 | 100.5 | 118.3 |
| CST3 | 13279.9 | 15923.6 | 12461.3 | 11759.7 | 9685.3 | 13544 | 11156.6 | 17292.3 |
| CST4 | 73.3 | 90.1 | 106.1 | 101.1 | 97.4 | 99 | 86.9 | 96.2 |
| CST5 | 100 | 120 | 89.9 | 84.7 | 80.1 | 77.6 | 102.2 | 112.1 |
| CST6 | 78 | 93.5 | 88.9 | 85.1 | 83.5 | 83.6 | 77.7 | 81 |
| CST6 | 94.9 | 90.7 | 92.5 | 100.2 | 84.3 | 84.1 | 98.3 | 96.4 |
| CST7 | 506.4 | 617.6 | 357 | 175.1 | 174.9 | 209 | 484.9 | 811.5 |
| CST8 | 82.8 | 95.8 | 90.1 | 83.2 | 81 | 87 | 81.8 | 93 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| CST9 | 198 | 289.5 | 126.6 | 128.2 | 122.8 | 144.7 | 201.8 | 203.7 |
| CST9L | 86.8 | 100.2 | 82.1 | 78.8 | 80.9 | 85.8 | 85.8 | 88.9 |
| CSTA | 232 | 286.1 | 170.4 | 176.6 | 136.1 | 157.3 | 187.4 | 256.1 |
| CSTB | 4946.3 | 6252.5 | 3795.6 | 3725.1 | 3187.1 | 4158.2 | 4378.4 | 5517.5 |
| CSTF1 | 191.4 | 223.3 | 116.1 | 110.4 | 91.3 | 91.1 | 160.1 | 177.6 |
| CSTF1 | 108.5 | 129.6 | 95.7 | 109.4 | 92.3 | 97.4 | 102.6 | 117.1 |
| CSTF1 | 142.4 | 156 | 94.8 | 98.1 | 91.5 | 75.9 | 110.3 | 153.5 |
| CSTF1 | 97.4 | 125.9 | 109.7 | 99.9 | 93.8 | 89.4 | 93.6 | 98.4 |
| CSTF2 | 1425.5 | 1642.9 | 830.4 | 827.7 | 560.8 | 997.1 | 1220.1 | 1714.7 |
| CSTF2T | 224.5 | 273.7 | 130.8 | 113.8 | 110.8 | 133.3 | 173 | 217.3 |
| CSTF3 | 1027.8 | 1318.8 | 536.1 | 585.9 | 456.5 | 647 | 673.3 | 888.1 |
| CSTF3 | 236.7 | 252.2 | 167.4 | 191.3 | 184.2 | 217.4 | 152.9 | 157 |
| CSTF3 | 3692.1 | 4510.2 | 2665.9 | 2248.7 | 1990.4 | 2568.7 | 2618.9 | 3690.5 |
| CSTF3 | 738.3 | 896.1 | 224.6 | 244.9 | 210.2 | 245 | 473 | 761.8 |
| CSTL1 | 90.1 | 97.3 | 87.8 | 79.9 | 82 | 85.6 | 91.5 | 92.5 |
| CT45-1 | 107.1 | 120.2 | 95.6 | 80.6 | 75.5 | 94.4 | 100 | 114.7 |
| CT45-4 | 80.8 | 97.6 | 91.3 | 89.3 | 81.1 | 86.7 | 84.9 | 88.4 |
| CT45-5 | 78.2 | 79.3 | 86.8 | 84.7 | 76.7 | 84.3 | 81.9 | 83.2 |
| CT45-5 | 86.9 | 93.1 | 86.5 | 84.7 | 79.3 | 92 | 88.5 | 97.9 |
| CT45-5 | 90.5 | 95.8 | 102.4 | 93.5 | 85.1 | 95.1 | 88 | 95.9 |
| CT47.1 | 82 | 88.4 | 104.6 | 102.1 | 99.9 | 109.1 | 85.1 | 87.9 |
| CT47.6 | 92.7 | 110.9 | 83.6 | 86.8 | 84.8 | 88.8 | 92.1 | 101.6 |
| CT47.7 | 97.1 | 100.4 | 116.9 | 91.9 | 94.8 | 106.4 | 94.3 | 101.6 |
| CTAG1A | 152.1 | 172.8 | 97.6 | 96 | 80.2 | 93.9 | 128 | 173.7 |
| CTAG1B | 74.4 | 82.7 | 99.3 | 88.8 | 83.2 | 86.8 | 75.3 | 77.1 |
| CTAG2 | 96.7 | 116 | 99.8 | 108.8 | 97.5 | 95.4 | 94.5 | 108.7 |
| CTAG2 | 94.5 | 105.5 | 95.7 | 87.8 | 74.1 | 82.8 | 90 | 90.1 |
| CTAGE1 | 86.2 | 97.1 | 91.9 | 90.4 | 86 | 90.4 | 85.9 | 86.6 |
| CTAGE5 | 130.6 | 138.8 | 99.7 | 86.5 | 73.2 | 92 | 115.3 | 140.3 |
| CTAGE5 | 85.9 | 100.2 | 93.4 | 86.2 | 76.5 | 86.2 | 87.1 | 104.9 |
| CTAGE5 | 79.8 | 88.3 | 89.2 | 84.8 | 84.6 | 85.7 | 79.1 | 84 |
| CTAGE5 | 103.8 | 119.4 | 98.5 | 114 | 96.3 | 111.2 | 113.1 | 99.6 |
| CTBP1 | 329.3 | 449.5 | 182.3 | 213.9 | 217.2 | 125.4 | 208 | 381.4 |
| CTBP1 | 182.9 | 251.7 | 191.1 | 154.9 | 137.3 | 210.3 | 144 | 224.6 |
| CTBP1 | 1381.9 | 1623.3 | 625.8 | 480.3 | 443.1 | 552 | 1083.7 | 1798.1 |
| CTBP2 | 175.1 | 230.3 | 113.9 | 95 | 103.1 | 92.5 | 150.4 | 174.7 |
| CTBP2 | 99.3 | 126.1 | 105.6 | 86.7 | 89.9 | 93.8 | 112.3 | 112.2 |
| CTBS | 688.2 | 988.1 | 360.4 | 507 | 389.7 | 402.4 | 643.9 | 809 |
| CTCF | 561.1 | 736 | 633.5 | 490.9 | 462.6 | 684.6 | 430.8 | 676.6 |
| CTCFL | 70.1 | 87.7 | 100.7 | 95.2 | 89.2 | 91.7 | 84.6 | 79.1 |
| CTDP1 | 145 | 214.7 | 136.7 | 128.4 | 108.5 | 170.3 | 147.4 | 229.4 |
| CTDP1 | 97.3 | 128.7 | 95.8 | 92.7 | 93.5 | 98.7 | 105.7 | 101.7 |
| CTDP1 | 188.3 | 254.5 | 151.6 | 144.4 | 131.7 | 152.1 | 162.8 | 178 |
| CTDSP1 | 830.1 | 1054.4 | 445.9 | 433.4 | 340.8 | 385.9 | 698.3 | 994.7 |
| CTDSP1 | 134 | 200.7 | 149.6 | 147.9 | 138.9 | 115.5 | 126.5 | 201.7 |
| CTDSP2 | 1069.4 | 1456.2 | 1017.6 | 1026.4 | 1090.1 | 1009.7 | 1017.5 | 1047.8 |
| CTDSPL | 610.1 | 854.2 | 624.4 | 480.6 | 387 | 525.1 | 457.3 | 611.6 |
| CTDSPL2 | 677.4 | 973 | 225.5 | 184.3 | 168.5 | 286.5 | 481.2 | 842.3 |
| CTF1 | 149.9 | 162 | 99.3 | 97.6 | 94.7 | 113.8 | 139.5 | 159.6 |
| CTF8 | 170.8 | 197 | 107.1 | 114.4 | 111.3 | 86.3 | 139.8 | 164 |

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|----------|---------|---------|---------|--------|---------|---------|---------|---------|
| CTGF | 153.9 | 173.5 | 101.5 | 101.7 | 107 | 111.5 | 251.6 | 319.8 |
| CTGLF1 | 113.2 | 122.9 | 102.3 | 95.2 | 91.1 | 113.2 | 111.8 | 117.2 |
| CTGLF3 | 980.2 | 912.9 | 638.9 | 788.3 | 714.6 | 1028.3 | 629.3 | 880.6 |
| CTGLF4 | 144.9 | 174.7 | 114.5 | 96.9 | 106 | 99.6 | 121.7 | 160.5 |
| CTH | 131.7 | 178.4 | 108.5 | 117.5 | 109.5 | 161.4 | 166.3 | 248.2 |
| CTH | 103.4 | 111.6 | 110.9 | 109.7 | 105.8 | 95.8 | 109.5 | 109.8 |
| CTHRC1 | 79.5 | 82.9 | 88.5 | 89 | 72.7 | 84.4 | 81.6 | 92.3 |
| CTLA4 | 78.3 | 87.2 | 89.3 | 75.1 | 78.2 | 84.9 | 75.5 | 85 |
| CTLA4 | 120.4 | 147.2 | 93.2 | 93.3 | 82 | 91.2 | 126.8 | 129.3 |
| CTLA4 | 114.8 | 145.5 | 96.8 | 81.6 | 80.2 | 77.4 | 123.6 | 139.2 |
| CTNNA1 | 1667.2 | 2317.5 | 1270.3 | 1691.8 | 1200.5 | 1935.4 | 1454.4 | 1742.2 |
| CTNNA2 | 98.7 | 108.2 | 105 | 87.3 | 96.7 | 94.9 | 98.7 | 109.6 |
| CTNNA3 | 87.1 | 99.4 | 89.1 | 87.4 | 78 | 82 | 82.9 | 83.9 |
| CTNNAL1 | 576 | 736.2 | 290.3 | 423 | 242.9 | 578.3 | 466.4 | 1117.5 |
| CTNNB1 | 1164.9 | 1539.8 | 550.2 | 533.3 | 444.2 | 575.8 | 685.9 | 1062.9 |
| CTNNB1 | 86.8 | 97.8 | 90.4 | 84.7 | 79.7 | 82.7 | 77.9 | 72 |
| CTNNBIP1 | 139.5 | 134.7 | 153.5 | 189.4 | 130.2 | 180.4 | 144.4 | 175.5 |
| CTNNBIP1 | 88.7 | 104.4 | 95.8 | 98.3 | 89.8 | 100 | 89.7 | 100.7 |
| CTNNBL1 | 1025.5 | 1520.7 | 524.2 | 470 | 435.9 | 757.8 | 798.2 | 1027.5 |
| CTNND1 | 93.8 | 114.4 | 99 | 94 | 92.2 | 98 | 100.6 | 98.8 |
| CTNND1 | 124.8 | 153.6 | 108.8 | 93.3 | 92.9 | 91.8 | 107.8 | 131.7 |
| CTNND2 | 109 | 127 | 89.4 | 83.6 | 79.1 | 86.8 | 105.3 | 121.7 |
| CTNS | 98 | 86.1 | 90.7 | 74 | 71.7 | 89.8 | 81.5 | 99.8 |
| CTNS | 311.9 | 358 | 181.8 | 172.3 | 150.5 | 173.7 | 254.4 | 259.2 |
| CTNS | 112.5 | 129.7 | 112 | 99 | 95.2 | 96.8 | 92 | 100.7 |
| CTPS | 4226.9 | 5286.8 | 2990.8 | 2637.4 | 1872.7 | 3759.1 | 2946.1 | 5797.9 |
| CTPS2 | 95.2 | 96.9 | 99.1 | 86.4 | 80.7 | 94.4 | 78.9 | 106.1 |
| CTPS2 | 709.5 | 905.4 | 635.2 | 942.5 | 814.4 | 1127.1 | 567 | 645 |
| CTPS2 | 234.6 | 273.5 | 107.2 | 108.4 | 101.8 | 133.5 | 192.7 | 275.8 |
| CTPS2 | 177.6 | 244.5 | 162.3 | 184.3 | 163.8 | 234.9 | 151.6 | 187.7 |
| CTR9 | 93.5 | 106.1 | 100.2 | 96.4 | 92.8 | 118.2 | 106.8 | 161.3 |
| CTRB1 | 95.8 | 98.7 | 86.2 | 84.1 | 77.2 | 78.7 | 87.1 | 95.2 |
| CTRB1 | 96.4 | 101 | 84.7 | 85.4 | 77.8 | 89.1 | 90 | 108.4 |
| CTRB2 | 117.6 | 120.8 | 91.8 | 93.5 | 86.8 | 105.7 | 113.6 | 109.6 |
| CTRC | 126 | 135.6 | 125.2 | 107.8 | 110.8 | 116.9 | 124.2 | 128.9 |
| CTRL | 152.7 | 164.9 | 129.5 | 119.7 | 102.6 | 112.9 | 133.2 | 148.8 |
| CTSB | 1539.6 | 1774.1 | 1103.9 | 1852.6 | 1670.6 | 1283.4 | 1380 | 1275.4 |
| CTSC | 108.2 | 134.4 | 94.1 | 94 | 102.1 | 95 | 119.7 | 143.7 |
| CTSC | 1254.4 | 1635 | 577.4 | 436.8 | 376.3 | 484.8 | 870.3 | 875.1 |
| CTSC | 2091.1 | 2752.8 | 1035 | 1237.4 | 817.7 | 1429.4 | 1801.3 | 3203.7 |
| CTSD | 383 | 509.1 | 412.7 | 552.6 | 374.1 | 665.4 | 383.7 | 673.9 |
| CTSE | 142.4 | 168 | 109 | 110 | 101.4 | 109.5 | 159.8 | 166.3 |
| CTSE | 82 | 95.5 | 93.9 | 86 | 92.1 | 89.2 | 94.1 | 93.9 |
| CTSE | 149.2 | 183.1 | 101.3 | 91.6 | 88 | 112.2 | 137.3 | 155.9 |
| CTSF | 147.8 | 184.5 | 139.3 | 118.3 | 120.9 | 133.5 | 151.6 | 176.3 |
| CTSG | 27864.3 | 26131.7 | 36062.1 | 35386 | 32256.9 | 34549.9 | 30449.6 | 28641.7 |
| CTSH | 3617.1 | 4643.7 | 2550.8 | 2772.1 | 2519 | 3786.6 | 3069.2 | 4965.8 |
| CTSH | 246.8 | 320 | 131.2 | 133.5 | 126.1 | 180.8 | 210.7 | 283.5 |
| CTSK | 139.7 | 147.8 | 118 | 111.6 | 108.2 | 109.8 | 127.5 | 177.7 |
| CTSL | 310.7 | 397.7 | 187.7 | 200.4 | 170.4 | 205.4 | 286 | 298.2 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| CTSL1 | 2421.6 | 3180.8 | 1381.5 | 2030.9 | 1641.2 | 2369 | 2621.5 | 2695.9 |
| CTSL1 | 2375.9 | 3000.7 | 1144 | 1566.2 | 1408.3 | 1864.1 | 2560.9 | 2896.5 |
| CTSL2 | 523.2 | 700.6 | 186.4 | 191.9 | 179.5 | 252.2 | 491.6 | 588.3 |
| CTSO | 490.8 | 575.1 | 225.8 | 273.1 | 230.8 | 358.5 | 434.8 | 746.4 |
| CTSS | 218.1 | 240.4 | 178.1 | 176.3 | 140.6 | 181.2 | 194.7 | 270.6 |
| CTSW | 130.4 | 164.2 | 101.2 | 114.3 | 112.6 | 117.9 | 136.3 | 166.9 |
| CTSZ | 1047.4 | 1830.7 | 721.3 | 1468.9 | 1322.7 | 1797.9 | 1746.1 | 2584 |
| CTTN | 157.1 | 199.4 | 173.3 | 88.7 | 93.7 | 97.4 | 158.5 | 218.5 |
| CTTN | 157 | 203 | 150.2 | 103.1 | 98.7 | 102.6 | 138.5 | 163.8 |
| CTTN | 75.1 | 87.1 | 85.4 | 79.9 | 78.3 | 92.8 | 75.9 | 74.9 |
| CTTNBP2 | 77.8 | 89.9 | 95.2 | 81.1 | 91.3 | 93.7 | 84.6 | 98.5 |
| CTTNBP2NI | 126.5 | 183.6 | 109.4 | 98.7 | 93.1 | 107.9 | 128.4 | 157.9 |
| CTXN1 | 355.6 | 419.3 | 250.5 | 117.8 | 89.6 | 117.7 | 310 | 443.6 |
| CTXN3 | 84.9 | 84 | 92.3 | 85.3 | 86.9 | 89 | 79.1 | 90.2 |
| CUBN | 80.6 | 83.2 | 97.6 | 81.9 | 82 | 80.6 | 78.1 | 83.4 |
| CUEDC1 | 372.8 | 427.2 | 249.3 | 265.6 | 234.5 | 184.4 | 377 | 340.7 |
| CUEDC2 | 1314.9 | 1775.3 | 801.7 | 429.4 | 354.4 | 617.7 | 1346.7 | 2157 |
| CUGBP1 | 216.5 | 336.6 | 128.3 | 163.9 | 142.4 | 149.4 | 169.2 | 234.5 |
| CUGBP1 | 175 | 281.8 | 118.2 | 139.9 | 100.6 | 109.8 | 139.9 | 238.9 |
| CUGBP2 | 152.3 | 186.4 | 98.3 | 93.9 | 84.6 | 88.5 | 138.8 | 172.9 |
| CUGBP2 | 397.8 | 638.7 | 338.4 | 435.7 | 350.5 | 534.4 | 348.4 | 557 |
| CUGBP2 | 378.6 | 560.6 | 215.4 | 216.2 | 197.4 | 249.2 | 308.9 | 410.3 |
| CUL1 | 1002.6 | 1350 | 326.8 | 333.1 | 244.4 | 474.3 | 602.9 | 857.4 |
| CUL2 | 741.4 | 1137.9 | 593.4 | 597.2 | 490.6 | 746 | 724.4 | 1073.6 |
| CUL3 | 91.9 | 106.8 | 97.3 | 92.8 | 91.1 | 94.5 | 74.9 | 111.3 |
| CUL4A | 119.2 | 129.2 | 91.2 | 81.5 | 77.8 | 91.2 | 93.5 | 117.7 |
| CUL4A | 1221.7 | 1610 | 764.5 | 768.5 | 671.7 | 876 | 1085.8 | 1861 |
| CUL4B | 186.2 | 211.1 | 129.1 | 153.5 | 148 | 207.2 | 156.4 | 222 |
| CUL4B | 202.6 | 226.1 | 126.2 | 130.1 | 105.1 | 136.7 | 142.1 | 195.8 |
| CUL5 | 1263 | 1573.1 | 619.2 | 777.1 | 590 | 942.7 | 1178 | 1871.2 |
| CUL7 | 114.6 | 114.4 | 100.7 | 95.8 | 98.5 | 102.9 | 109.7 | 104.7 |
| CUTA | 7340.7 | 8378 | 6558.9 | 6272 | 4609 | 4947.5 | 6628.6 | 7562.4 |
| CUTA | 3012.6 | 4316.2 | 2226.4 | 2012.8 | 1571.9 | 1703.6 | 3048 | 3710.6 |
| CUTA | 160.3 | 198.7 | 119.3 | 95.7 | 98.5 | 102 | 157.1 | 168.1 |
| CUTC | 809.2 | 989.5 | 502.1 | 354.9 | 290.5 | 479.6 | 630.5 | 1258.8 |
| CUTL1 | 94.8 | 97.8 | 91 | 94.9 | 81.1 | 93.3 | 98.5 | 95.3 |
| CUTL1 | 285.2 | 363.4 | 290.9 | 532.1 | 420.6 | 875.1 | 301.7 | 565 |
| CUTL1 | 85.8 | 92 | 104.8 | 97.3 | 98.4 | 92.2 | 85 | 82.5 |
| CUTL2 | 132.3 | 175.6 | 135.2 | 143 | 125 | 162.4 | 112.4 | 133.5 |
| CUZD1 | 127.3 | 147.7 | 128.2 | 98.4 | 104.6 | 125.1 | 123.8 | 140 |
| CWF19L1 | 1867.5 | 2378.8 | 1323.8 | 968.8 | 788.8 | 1148.4 | 1999 | 2948.7 |
| CWF19L2 | 343.1 | 467 | 292 | 298.9 | 252 | 477.5 | 306.7 | 481.4 |
| CX36 | 86.4 | 105.2 | 84.8 | 86.9 | 87.5 | 81.5 | 86.3 | 90.4 |
| CX3CL1 | 94.7 | 101.7 | 92.2 | 77.6 | 70.6 | 85.3 | 85.5 | 94.4 |
| CX3CR1 | 1459.6 | 1759 | 1013.5 | 1363.3 | 1276.4 | 1477 | 1224.5 | 1788.5 |
| CX40.1 | 87.5 | 108.5 | 85.1 | 83.2 | 76.7 | 84.7 | 90.7 | 94.8 |
| CX62 | 77.9 | 87.9 | 89.4 | 81.2 | 84.3 | 89.5 | 85.5 | 87.7 |
| CXADR | 79.3 | 101.6 | 89.9 | 83.2 | 72.8 | 86.8 | 88.4 | 92.1 |
| CXCL1 | 125.8 | 136.2 | 92.2 | 90.9 | 86.4 | 71.7 | 103.6 | 147.8 |
| CXCL10 | 95.6 | 127.2 | 99.4 | 80.4 | 90.8 | 90.4 | 98.7 | 104.7 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| CXCL11 | 83.5 | 87.1 | 93.6 | 89.4 | 76.5 | 88.1 | 87.9 | 88.1 |
| CXCL12 | 139.3 | 175.3 | 120.2 | 118.9 | 109.5 | 109.6 | 134.5 | 159.5 |
| CXCL12 | 104.8 | 111.6 | 102.8 | 91.6 | 84.7 | 96.1 | 95.2 | 101.4 |
| CXCL13 | 99.7 | 111.7 | 91.3 | 87.4 | 80.3 | 83.1 | 102.3 | 96.1 |
| CXCL14 | 95.5 | 103.9 | 91.7 | 85.5 | 83 | 82.1 | 92.2 | 101.6 |
| CXCL16 | 145 | 158.5 | 120.3 | 124.5 | 108 | 113.9 | 132.9 | 138.2 |
| CXCL2 | 82.2 | 95.4 | 90.4 | 99.3 | 77 | 88.6 | 82.5 | 98.2 |
| CXCL3 | 114.9 | 128.2 | 86.6 | 90.4 | 82.5 | 97.1 | 115.5 | 125.7 |
| CXCL5 | 79.8 | 103.7 | 83.8 | 84.9 | 80.2 | 77.6 | 83.3 | 103.4 |
| CXCL6 | 101.9 | 113.3 | 94 | 90.5 | 83.1 | 93 | 98.1 | 112.2 |
| CXCL9 | 93 | 114 | 98.9 | 83.2 | 80.3 | 82 | 97.5 | 109 |
| CXCR3 | 179.5 | 212.9 | 99.9 | 94.1 | 91.9 | 93.7 | 142.6 | 149.6 |
| CXCR4 | 968.1 | 1501.8 | 334.1 | 515.6 | 395.6 | 779.5 | 746.4 | 922.1 |
| CXCR4 | 100.3 | 120.7 | 88.3 | 81.8 | 72.3 | 78.1 | 110.4 | 108.4 |
| CXCR4 | 3194 | 4569 | 1515.6 | 1749 | 1767.7 | 2010.4 | 2578.5 | 2372.1 |
| CXCR6 | 81.7 | 97.8 | 91.1 | 85.3 | 82.9 | 91.1 | 82.2 | 85 |
| CXCR7 | 84.9 | 104.9 | 91.2 | 113.2 | 103.6 | 100 | 82.6 | 91.5 |
| CXORF1 | 101.4 | 115.3 | 93.4 | 96.1 | 88.9 | 87.2 | 111.7 | 106.4 |
| CXORF12 | 257.1 | 319.2 | 201.4 | 189.4 | 189.8 | 217.4 | 231.1 | 222 |
| CXORF15 | 138 | 189.2 | 121.1 | 118.8 | 120.8 | 109.8 | 112.4 | 136.2 |
| CXORF2 | 109 | 135.1 | 98.2 | 86.1 | 88.9 | 85.2 | 113.1 | 114 |
| CXORF20 | 84.1 | 95.3 | 91.8 | 87.2 | 89.3 | 85.9 | 83.8 | 95.9 |
| CXORF21 | 262.4 | 270.6 | 132.3 | 150.9 | 106 | 130.7 | 191 | 393.1 |
| CXORF22 | 85.6 | 79.7 | 83.8 | 82.6 | 88 | 88 | 77.8 | 88.6 |
| CXORF23 | 123.5 | 142.5 | 114.6 | 118.8 | 110.3 | 127.5 | 133.8 | 181.2 |
| CXORF26 | 1905.8 | 2317 | 604.9 | 516.2 | 398.4 | 684.4 | 1816.4 | 2720.4 |
| CXORF33 | 253.4 | 336.6 | 166.9 | 160.1 | 136.2 | 153.3 | 257.4 | 303.1 |
| CXORF34 | 91.2 | 95.9 | 102.3 | 83.8 | 83 | 86.9 | 83 | 100 |
| CXORF36 | 116.2 | 155.2 | 97.3 | 84.6 | 77.9 | 78 | 126.5 | 183.5 |
| CXORF38 | 632.9 | 820.9 | 396.8 | 424.5 | 315.1 | 412 | 514 | 713.1 |
| CXORF39 | 208.7 | 259.8 | 171.2 | 169.7 | 143.1 | 193.7 | 208.1 | 358 |
| CXORF40A | 825.2 | 1044.2 | 488.7 | 501.8 | 407.3 | 442.4 | 690 | 1163.1 |
| CXORF40B | 526.7 | 713.6 | 309.4 | 297.9 | 266.6 | 313.9 | 483.6 | 931.2 |
| CXORF41 | 81.8 | 89.7 | 86.9 | 93.3 | 82.3 | 93.5 | 85.1 | 91.2 |
| CXORF43 | 103.8 | 139.9 | 104.1 | 95.1 | 97.1 | 93.7 | 113.4 | 113.8 |
| CXORF44 | 162.1 | 176.4 | 136.7 | 155.7 | 136.1 | 161.5 | 131.1 | 158.7 |
| CXORF45 | 139.1 | 154.6 | 157.2 | 183 | 193.1 | 304.1 | 131.2 | 188.1 |
| CXORF48 | 80.7 | 87.5 | 93.5 | 94.7 | 85.5 | 95.2 | 86.2 | 84.4 |
| CXORF48 | 78 | 88.2 | 86.9 | 84.1 | 75.3 | 84.9 | 77.9 | 90.8 |
| CXORF53 | 581.9 | 720.9 | 454.8 | 533 | 437.7 | 957.5 | 475.5 | 703.5 |
| CXORF55 | 93.4 | 105.3 | 100 | 88.6 | 78.2 | 88.9 | 104.4 | 107.2 |
| CXORF56 | 299 | 420.3 | 145.2 | 143.6 | 124.6 | 113.7 | 312.3 | 421.9 |
| CXORF6 | 119 | 139.7 | 94.2 | 74.9 | 79.5 | 85.8 | 105.3 | 129.5 |
| CXORF9 | 247.5 | 304.2 | 250.8 | 325.4 | 257 | 542.1 | 181.8 | 224 |
| CXX1 | 1020.3 | 1290.2 | 767.9 | 543.9 | 394.1 | 544.6 | 946 | 1345.1 |
| CXXC1 | 2061.5 | 2461.9 | 1574.4 | 1391.3 | 1277 | 1418.8 | 1632.5 | 1668.7 |
| CXXC4 | 122 | 169.3 | 103.1 | 93.8 | 93.9 | 87.8 | 118.2 | 174.9 |
| CXXC5 | 1906 | 2524.5 | 2240.6 | 2004.6 | 1640.9 | 2774.8 | 1942.9 | 4442.5 |
| CXXC6 | 117.5 | 136.5 | 109.8 | 101.9 | 91 | 128 | 91.6 | 103 |
| CXYORF3 | 1972.2 | 2281.8 | 1774.5 | 2529.8 | 2550.1 | 3559.1 | 1894.2 | 2618.9 |

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|----------|---------|--------|---------|---------|--------|---------|---------|---------|
| CYB561 | 190.4 | 196.2 | 142 | 110.8 | 115.7 | 113.5 | 147.7 | 175.7 |
| CYB561 | 182.2 | 230.2 | 144.5 | 116.6 | 121.2 | 126 | 161.5 | 192.9 |
| CYB561 | 105 | 115.6 | 114.2 | 106.9 | 102.2 | 98.3 | 102.3 | 114.2 |
| CYB561D2 | 612 | 794.7 | 542.3 | 482 | 387.9 | 517.3 | 563.6 | 685.5 |
| CYB5A | 1651.2 | 2044.1 | 1013.8 | 1035.9 | 847.5 | 1132.3 | 1489.3 | 1993.4 |
| CYB5A | 893.8 | 1175.8 | 343.7 | 364 | 297.1 | 409.6 | 775.7 | 772.9 |
| CYB5D1 | 235.2 | 310.5 | 208 | 205.6 | 166.7 | 245.4 | 181.8 | 236.4 |
| CYB5D2 | 177.7 | 214 | 153.3 | 205.4 | 192.3 | 238.1 | 164 | 246.2 |
| CYB5-M | 7115.9 | 8516 | 4410.2 | 3572.8 | 2693.5 | 3741.2 | 6159.3 | 8530.1 |
| CYB5R1 | 475.4 | 562.9 | 256.2 | 277.3 | 234.6 | 276.8 | 529.4 | 775.3 |
| CYB5R2 | 446.9 | 557 | 222.2 | 178.2 | 162.7 | 201 | 397.9 | 374.6 |
| CYB5R3 | 462.6 | 711 | 336.8 | 320.1 | 265 | 293.1 | 467.4 | 895.6 |
| CYB5R3 | 10136.7 | 12022 | 6004.4 | 4919.8 | 3674.4 | 3943.5 | 9275.2 | 10354.2 |
| CYB5R4 | 800 | 1048.7 | 362.6 | 452.7 | 323.8 | 633.2 | 586.7 | 908.3 |
| CYBA | 17034 | 21230 | 13552.4 | 10738.9 | 8390.6 | 10681.6 | 14723.7 | 17927 |
| CYBASC3 | 561 | 770.3 | 590.1 | 484.1 | 478.9 | 578 | 512.6 | 733.3 |
| CYBB | 118 | 135.6 | 104.7 | 552.3 | 479.8 | 704 | 102.6 | 124.1 |
| CYBRD1 | 381.9 | 481.8 | 341.3 | 346.3 | 343.7 | 468.8 | 363.6 | 686.1 |
| CYC1 | 9933 | 11412 | 8527.3 | 5268.8 | 4734.4 | 6058.8 | 8909.8 | 10832.4 |
| CYCS | 262.6 | 346.5 | 232.6 | 315.1 | 243.2 | 382.3 | 207.3 | 362.3 |
| CYCSL1 | 140.9 | 165.1 | 116.1 | 121.8 | 115.7 | 119.9 | 140.6 | 164.9 |
| CYFIP1 | 95.6 | 122.7 | 109.5 | 115.9 | 102.4 | 109.3 | 95 | 100.2 |
| CYFIP1 | 535.5 | 726.5 | 743 | 1000.7 | 839.9 | 1365.2 | 426.2 | 672.8 |
| CYFIP1 | 117 | 126 | 88.2 | 78.8 | 88 | 87.3 | 116.2 | 137.8 |
| CYFIP2 | 102 | 103.1 | 101.3 | 92.1 | 84.2 | 85.2 | 99.9 | 114.2 |
| CYFIP2 | 101 | 117.9 | 107.4 | 115.6 | 108.6 | 130.9 | 92 | 112.8 |
| CYFIP2 | 222.8 | 277.8 | 200.8 | 168.8 | 151 | 180.5 | 198.3 | 164.3 |
| CYGB | 78.8 | 99.3 | 96.2 | 80.2 | 69.9 | 82.5 | 91.8 | 91.8 |
| CYHR1 | 157.9 | 182.6 | 122.2 | 100 | 103.5 | 139.8 | 132.6 | 152.5 |
| CYLC1 | 78.7 | 86.1 | 84.4 | 75.4 | 85.2 | 78.8 | 79.9 | 91.8 |
| CYLC2 | 160.6 | 159.6 | 90.8 | 98.5 | 88.5 | 94.8 | 146 | 136.4 |
| CYLD | 82.1 | 88.5 | 105.7 | 96.4 | 88.2 | 81.6 | 83.3 | 90.7 |
| CYLD | 126.4 | 184.8 | 147 | 165.5 | 174.2 | 167.8 | 127.1 | 135 |
| CYLN2 | 95.6 | 112.6 | 86.8 | 89.5 | 87.9 | 89.4 | 101.2 | 107.6 |
| CYORF14 | 178.3 | 186.3 | 130.2 | 151 | 140 | 193.1 | 166.5 | 175 |
| CYORF15A | 590.1 | 768.4 | 369.4 | 481.8 | 342.1 | 612.9 | 402.3 | 613 |
| CYORF15B | 177.2 | 204 | 138.3 | 141.1 | 133.8 | 173.5 | 123.1 | 161.1 |
| CYP11A1 | 131.9 | 147 | 111.4 | 133.9 | 108.3 | 134.2 | 122 | 141.8 |
| CYP11B1 | 81.9 | 101.2 | 78.3 | 81 | 81.5 | 80.7 | 91.1 | 104.8 |
| CYP11B2 | 91.7 | 120.9 | 96.2 | 83.8 | 94.2 | 95.5 | 109.5 | 128 |
| CYP17A1 | 101.1 | 97.5 | 90.6 | 87.3 | 81.9 | 83.4 | 90.3 | 103 |
| CYP19A1 | 97.7 | 117.2 | 98.7 | 88.2 | 91.3 | 89.7 | 96.8 | 95.4 |
| CYP19A1 | 82.8 | 96.9 | 99.3 | 97.4 | 101.5 | 83.9 | 82.6 | 85.5 |
| CYP19A1 | 105.9 | 118.2 | 98.6 | 84 | 94.9 | 78.5 | 99.4 | 130.8 |
| CYP1A1 | 105.7 | 111.4 | 101.2 | 87.1 | 94.3 | 91.3 | 94.7 | 110 |
| CYP1A2 | 82.7 | 86.9 | 98 | 88.9 | 82.9 | 86.6 | 81.8 | 87.2 |
| CYP1B1 | 194 | 248.9 | 141.4 | 357.9 | 225.9 | 608.5 | 523.2 | 1232.3 |
| CYP20A1 | 555.2 | 684.4 | 328 | 375.7 | 293.7 | 437.7 | 482.7 | 784.8 |
| CYP20A1 | 96.6 | 113.4 | 98 | 92.9 | 81.5 | 82.9 | 101.4 | 100.7 |
| CYP21A2 | 91 | 104.9 | 106.1 | 90.6 | 88.4 | 102.3 | 94.4 | 104.6 |

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|----------|-------|-------|-------|-------|-------|-------|-------|-------|
| CYP24A1 | 87.1 | 97.1 | 87.8 | 85.7 | 73.6 | 81.9 | 76.4 | 93 |
| CYP26A1 | 89.4 | 112.9 | 90.1 | 86.6 | 81.1 | 79.4 | 96.4 | 107.8 |
| CYP26A1 | 102.5 | 111.8 | 91.5 | 90.6 | 86.3 | 87.9 | 96.3 | 105 |
| CYP26A1 | 82.5 | 84.9 | 93.2 | 85.9 | 82.7 | 89.2 | 74.1 | 85.7 |
| CYP26B1 | 111.7 | 133.3 | 100 | 90.8 | 79.8 | 91.6 | 120 | 142.1 |
| CYP26C1 | 95.3 | 130.3 | 85.6 | 79.9 | 69.4 | 81.9 | 104.3 | 103.9 |
| CYP27A1 | 124.1 | 144.2 | 132.5 | 158.4 | 159.6 | 159.2 | 121.1 | 143.4 |
| CYP27B1 | 136.7 | 169.8 | 155.8 | 117.1 | 116.5 | 120.6 | 126.7 | 128.8 |
| CYP2A13 | 91.2 | 94 | 94.1 | 83.7 | 79.4 | 89.1 | 93.4 | 97.9 |
| CYP2A6 | 76.6 | 79.2 | 91.4 | 84.6 | 80.8 | 81.5 | 75.7 | 79.4 |
| CYP2A7 | 86.2 | 99.2 | 112.6 | 104 | 105.9 | 104.1 | 91.5 | 105.6 |
| CYP2B6 | 75.6 | 84.6 | 96.6 | 85.4 | 84.5 | 90.1 | 82.7 | 87.7 |
| CYP2B7P1 | 80.6 | 87.6 | 95.5 | 90.3 | 81.2 | 81.1 | 81.7 | 93.6 |
| CYP2C18 | 84 | 88.6 | 103.1 | 94.1 | 94.3 | 95.4 | 90.6 | 98.8 |
| CYP2C19 | 95.1 | 102.6 | 94.9 | 85.6 | 84.1 | 97.5 | 90.3 | 111.8 |
| CYP2C8 | 114.6 | 124.2 | 92.9 | 86.9 | 89.4 | 89.2 | 109.2 | 134.1 |
| CYP2C9 | 69.8 | 84.8 | 102.4 | 105.4 | 84.3 | 87.4 | 75.4 | 85.7 |
| CYP2D6 | 129.1 | 171 | 88.9 | 97.6 | 87 | 94 | 122.7 | 126.9 |
| CYP2D7P1 | 97.3 | 111.8 | 120.7 | 114.9 | 110.1 | 123.5 | 89.1 | 96.7 |
| CYP2E1 | 109 | 120.2 | 97.6 | 92.8 | 102.9 | 100.3 | 107.3 | 112.1 |
| CYP2F1 | 85.5 | 90.1 | 95.3 | 88.3 | 80 | 86.2 | 78.9 | 101 |
| CYP2J2 | 164.9 | 188.2 | 147.8 | 161.9 | 126.3 | 184.1 | 107.3 | 143.1 |
| CYP2R1 | 191.1 | 221.1 | 181.6 | 166.6 | 146 | 200.2 | 182.1 | 226.8 |
| CYP2S1 | 158.5 | 182 | 144 | 110.3 | 103.1 | 113.9 | 145 | 174.8 |
| CYP2S1 | 389.7 | 518.9 | 394.4 | 332.7 | 261.1 | 299.8 | 365.7 | 625.6 |
| CYP2U1 | 130.4 | 147.4 | 98 | 90.3 | 81.4 | 100 | 113.6 | 168.6 |
| CYP2W1 | 144.4 | 162.2 | 88.8 | 93.2 | 74.4 | 86.9 | 163.5 | 188 |
| CYP39A1 | 75.1 | 79.5 | 91.1 | 88.4 | 81.2 | 85.7 | 72.4 | 83.3 |
| CYP3A4 | 91.4 | 99.3 | 94.1 | 86.9 | 93 | 83.3 | 94.7 | 102.3 |
| CYP3A43 | 94.9 | 111.8 | 96.4 | 87.4 | 92 | 88.1 | 94.1 | 97.1 |
| CYP3A43 | 78.3 | 81.1 | 92 | 94.5 | 97.4 | 89 | 82 | 78.4 |
| CYP3A5 | 79.8 | 85.9 | 95.7 | 87.9 | 91 | 90.2 | 89.2 | 82.6 |
| CYP3A7 | 96.4 | 111.8 | 91.1 | 90.6 | 82.2 | 94 | 94.3 | 107.9 |
| CYP46A1 | 117.5 | 123.5 | 108 | 97.3 | 94.9 | 108.4 | 93.1 | 111.3 |
| CYP4A11 | 119.4 | 137.5 | 89 | 82.3 | 82.3 | 85.8 | 112.7 | 122.1 |
| CYP4A22 | 87.1 | 96.1 | 101.9 | 83.5 | 87.1 | 86 | 97.7 | 96.5 |
| CYP4B1 | 112.1 | 116.3 | 97.3 | 93.8 | 86.9 | 91.2 | 103.2 | 115.5 |
| CYP4F11 | 103.1 | 102.9 | 101.1 | 87.4 | 84 | 93 | 102.5 | 91.7 |
| CYP4F12 | 82.7 | 90 | 87.2 | 85.8 | 84 | 87.8 | 93 | 95.9 |
| CYP4F2 | 77.9 | 94.5 | 101.5 | 89.7 | 94 | 95.2 | 86.7 | 90.5 |
| CYP4F3 | 84.9 | 85.6 | 82.3 | 84.5 | 86.1 | 84.4 | 83.9 | 92.8 |
| CYP4F8 | 117.1 | 107.3 | 95.6 | 94.7 | 82.5 | 86.1 | 106.3 | 108.6 |
| CYP4V2 | 453.3 | 533.8 | 360.1 | 682.6 | 477.6 | 755 | 331.1 | 400.9 |
| CYP4X1 | 79.6 | 88 | 84.7 | 70.1 | 79.2 | 81.6 | 82.7 | 87.8 |
| CYP4Z1 | 82.2 | 84.8 | 101.9 | 85.3 | 91.6 | 90.9 | 79.8 | 90.3 |
| CYP4Z1 | 93.3 | 96.9 | 83.5 | 72.2 | 74 | 80.5 | 84.6 | 99.2 |
| CYP4Z1 | 78.7 | 80 | 87.3 | 81.1 | 75.2 | 82.9 | 79.3 | 83.2 |
| CYP4Z2P | 97.1 | 99.1 | 92.5 | 91 | 83.9 | 97.5 | 93.7 | 101.8 |
| CYP51A1 | 372.5 | 487.4 | 192.8 | 199.1 | 177 | 235.4 | 460.7 | 808.3 |
| CYP7A1 | 106.7 | 101.1 | 93.3 | 90.2 | 93.9 | 82.9 | 92.7 | 103.4 |

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|-----------|---------|---------|--------|--------|--------|---------|--------|---------|
| CYP7B1 | 112.3 | 124.3 | 91.3 | 91.7 | 89.4 | 89.7 | 112.4 | 128.3 |
| CYP8B1 | 94.2 | 113.3 | 90.2 | 88.9 | 86.7 | 86.3 | 97.2 | 101.3 |
| CYR61 | 102.6 | 107.1 | 86.5 | 96.1 | 87.7 | 100.6 | 107.4 | 122.6 |
| CYS1 | 94.5 | 98.2 | 87 | 90.7 | 83.9 | 90.9 | 95.6 | 108.8 |
| CYS1 | 102.4 | 104.8 | 83 | 90.2 | 88.1 | 85.5 | 88.6 | 108.2 |
| CYSLTR1 | 954.6 | 1328.4 | 636.4 | 704.1 | 554 | 806.4 | 617.8 | 749.7 |
| CYSLTR2 | 113.7 | 128.6 | 86.6 | 72.2 | 70.2 | 89.8 | 123.8 | 141.1 |
| CYTL1 | 77.4 | 83.3 | 82.9 | 70.6 | 74.3 | 75 | 83.5 | 86 |
| CYR1 | 85.9 | 97.4 | 99.5 | 91.7 | 93.8 | 95.4 | 94.7 | 98.1 |
| D15WSU75 | 971.4 | 1317.9 | 809.2 | 592 | 459.2 | 758.8 | 700.5 | 969.9 |
| D21S2056E | 98.6 | 123.2 | 79.5 | 86.9 | 68.5 | 74.8 | 97.9 | 115.9 |
| D2HGDH | 761 | 793.8 | 615.8 | 941.7 | 1116.8 | 1302.4 | 452.3 | 419.6 |
| D4S234E | 135.9 | 146.5 | 104.7 | 96.1 | 90.1 | 93.8 | 144 | 140.2 |
| D4ST1 | 280.4 | 370.4 | 380.3 | 315.5 | 234.5 | 299.1 | 257.4 | 445.1 |
| DAAM1 | 107 | 153.2 | 100.4 | 100.8 | 102 | 126.6 | 135.1 | 166 |
| DAAM2 | 100 | 136.6 | 102.9 | 91.7 | 90.3 | 89.9 | 107.4 | 124.4 |
| DAB1 | 71.5 | 75.9 | 83.3 | 79.4 | 67.6 | 77.6 | 81.3 | 71.6 |
| DAB2 | 266.8 | 305.6 | 173.6 | 335.1 | 313.6 | 307 | 259.4 | 335.6 |
| DAB2IP | 85.2 | 110.6 | 102.9 | 82.7 | 87.1 | 90 | 89.8 | 102.5 |
| DAB2IP | 87.1 | 95.8 | 92.4 | 78.8 | 84.3 | 88.9 | 91.7 | 87.2 |
| DAB2IP | 88.9 | 103.4 | 87.8 | 87.6 | 68.6 | 89.4 | 91.8 | 101.2 |
| DACH1 | 100.8 | 111.7 | 97.3 | 89.7 | 84.6 | 89.6 | 95 | 108.8 |
| DACH1 | 108.2 | 110.7 | 96.7 | 102.3 | 94.9 | 99.3 | 90.2 | 92.9 |
| DACH1 | 382.9 | 487.5 | 220 | 380.9 | 312.7 | 459.1 | 212.9 | 380.7 |
| DACT1 | 88.2 | 90.8 | 100.1 | 89.7 | 92.3 | 91.1 | 87.9 | 91.9 |
| DACT1 | 96.2 | 101.8 | 108.4 | 100.8 | 95.6 | 93.2 | 100.4 | 97.9 |
| DACT1 | 105.8 | 114.7 | 105.7 | 103 | 94.2 | 86.2 | 102.4 | 102.9 |
| DACT2 | 92.4 | 95.4 | 96.2 | 93.8 | 84.7 | 83.6 | 87.8 | 104 |
| DAD1 | 7030.7 | 8993.3 | 4727.8 | 3531.1 | 2654.2 | 3867.3 | 6535 | 7297.1 |
| DAG1 | 314.8 | 396.6 | 281.2 | 284 | 233 | 343.9 | 327.6 | 545.3 |
| DAK | 152.8 | 166.3 | 145.7 | 113 | 113.1 | 124 | 132.6 | 212.3 |
| DALRD3 | 236.7 | 290.2 | 147.5 | 114.2 | 110 | 102 | 187.6 | 207.4 |
| DALRD3 | 88.9 | 106.3 | 91.7 | 77.7 | 79.8 | 85.9 | 87 | 108.7 |
| DAND5 | 92.5 | 90.7 | 100.5 | 98.2 | 87.1 | 102.9 | 92.5 | 104.5 |
| DAO | 91.4 | 106 | 91.1 | 97.9 | 87.6 | 86.9 | 96.7 | 112.3 |
| DAOA | 76.2 | 95.7 | 88.1 | 89.2 | 84.8 | 85.7 | 88.9 | 99 |
| DAP | 723.9 | 884.7 | 526.6 | 478.1 | 365.6 | 562.5 | 585.3 | 1163.2 |
| DAP3 | 3020.7 | 4027.8 | 1894 | 1782.5 | 1366.4 | 2378.8 | 2765.8 | 4965.7 |
| DAPK1 | 152.8 | 201 | 119.2 | 165.6 | 140.7 | 235.4 | 155.3 | 175.1 |
| DAPK2 | 124.3 | 118.6 | 124 | 93.4 | 88.5 | 96.7 | 97.5 | 128.9 |
| DAPK3 | 228.5 | 304.1 | 166.8 | 113.9 | 124.3 | 152.1 | 204.5 | 299.9 |
| DAPP1 | 3429.5 | 3829.6 | 1556 | 1790 | 2019.4 | 2160.8 | 3002.2 | 2935.8 |
| DARC | 109.2 | 153 | 92.2 | 85 | 69.8 | 78 | 109.6 | 135.4 |
| DARS | 10040.7 | 12852.8 | 7708.4 | 7995.2 | 6496 | 11106.7 | 8812.2 | 10774.3 |
| DARS2 | 1028.9 | 1311.3 | 566 | 499.3 | 406.8 | 583 | 778.7 | 903.3 |
| DAXX | 395.4 | 505.5 | 297.1 | 241 | 204.4 | 268.2 | 370.2 | 484.3 |
| DAZ1 | 86.4 | 84.6 | 79.1 | 79 | 74.1 | 82.8 | 88.1 | 93.6 |
| DAZ2 | 86.3 | 97.4 | 84.2 | 90.3 | 89.6 | 82.5 | 102.7 | 97.5 |
| DAZ2 | 94.3 | 95 | 105.1 | 94.6 | 86.7 | 99 | 95.4 | 87.1 |
| DAZ4 | 92.7 | 118.6 | 87.5 | 86.4 | 89.1 | 94.9 | 92.6 | 105.9 |

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|---------|---------|---------|--------|---------|--------|---------|---------|---------|
| DAZAP1 | 91.8 | 106.8 | 93.3 | 84.3 | 88.9 | 93.7 | 101 | 117.9 |
| DAZAP1 | 1436.7 | 1561.2 | 710.6 | 437.8 | 394 | 324.7 | 1140.4 | 1570.3 |
| DAZAP2 | 13603.2 | 16805.5 | 9633.5 | 11248.7 | 8091.8 | 12199.6 | 11943.1 | 13899.2 |
| DAZL | 83.3 | 93.1 | 94 | 91 | 85.1 | 91.9 | 82.9 | 95 |
| DBC1 | 74.7 | 91.7 | 90.3 | 88.1 | 81.7 | 86.2 | 84.9 | 91.2 |
| DBF4 | 132.5 | 150.8 | 97.5 | 97.7 | 94.9 | 98.3 | 130.7 | 157.7 |
| DBF4B | 122.4 | 125.2 | 109.4 | 108.5 | 103.8 | 98.3 | 123.7 | 121.1 |
| DBF4B | 78 | 82.8 | 96.7 | 93.9 | 93.3 | 102.1 | 72.2 | 92.6 |
| DBH | 89.3 | 124.9 | 90.1 | 88.7 | 80 | 76.6 | 95.9 | 113.6 |
| DBI | 11657.6 | 14012.5 | 7883 | 7064.5 | 6419.5 | 8827.3 | 9337.3 | 15379.4 |
| DBI | 2171 | 2677.5 | 862.9 | 799.8 | 724.8 | 1096.5 | 1755 | 2062.3 |
| DBN1 | 1071.8 | 1433.3 | 706 | 516.5 | 308.5 | 492.4 | 886.6 | 831.2 |
| DBN1 | 103.4 | 135.2 | 106.5 | 99.2 | 89.3 | 85.4 | 104.6 | 134.1 |
| DBNDD1 | 210.4 | 284.4 | 118.4 | 112.7 | 99.2 | 103.5 | 205.5 | 245.9 |
| DBNDD2 | 79.6 | 92.8 | 84.3 | 81.1 | 89.5 | 78.1 | 68.6 | 83 |
| DBNL | 4747.2 | 6058 | 3851.4 | 3448.9 | 2754.4 | 3785.1 | 3674.1 | 3789.5 |
| DBNL | 596.7 | 779.4 | 505.4 | 424.3 | 368.1 | 557.4 | 539.1 | 674.9 |
| DBP | 198.6 | 242.2 | 130.1 | 138.9 | 114.1 | 129.5 | 173.8 | 210.8 |
| DBR1 | 368 | 399.3 | 179 | 199.4 | 138.9 | 215.2 | 333.7 | 445.7 |
| DBT | 1649.6 | 1903.3 | 1068.6 | 958.7 | 823.9 | 811.2 | 1459.7 | 1915.2 |
| DBX1 | 113 | 113.8 | 91.5 | 96.4 | 91.9 | 84.5 | 106.4 | 129.2 |
| DBX2 | 112.4 | 131.2 | 107.9 | 94.3 | 94.8 | 92.8 | 112.4 | 123.2 |
| DC2 | 1559.5 | 1773.1 | 312.9 | 290.7 | 241.9 | 327.8 | 1577.5 | 2864.8 |
| DCAKD | 1252.2 | 1571.8 | 951.6 | 1114.4 | 963.7 | 844.1 | 1005.6 | 1030.7 |
| DCAL1 | 91.8 | 88.6 | 94.7 | 90.1 | 78.4 | 94.2 | 101.3 | 98.8 |
| DCAMKL1 | 163.4 | 209.6 | 115.1 | 101.5 | 104 | 110.8 | 162.5 | 179.4 |
| DCAMKL2 | 86.2 | 98.7 | 109.5 | 100.1 | 93.1 | 99.5 | 101.6 | 94.4 |
| DCAMKL2 | 86 | 89 | 85 | 86.2 | 79 | 83.5 | 83 | 88.1 |
| DCBLD1 | 298.5 | 357.9 | 170.4 | 191.7 | 157.8 | 153.2 | 245.9 | 423.5 |
| DCBLD2 | 570.4 | 716.9 | 388.1 | 401.3 | 368.5 | 485.6 | 518.8 | 840.8 |
| DCC | 91.1 | 105.2 | 103.1 | 90.1 | 90 | 93.4 | 97 | 98.2 |
| DCC1 | 417.2 | 492.3 | 150.1 | 126.9 | 130.6 | 137.1 | 300.2 | 382.8 |
| DCD | 93.5 | 108.5 | 88.2 | 81.5 | 83.7 | 93.2 | 90.7 | 100.8 |
| DCDC1 | 75.8 | 93.1 | 90.1 | 89.7 | 82.9 | 90.1 | 83.3 | 85.9 |
| DCDC2 | 84.6 | 83.6 | 92.1 | 90.5 | 81.9 | 82.6 | 78.8 | 81.8 |
| DCDC5 | 470 | 614 | 289.3 | 228.5 | 210.7 | 235.7 | 492.4 | 429.7 |
| DCHS1 | 172.3 | 264.1 | 120.2 | 112.4 | 102.4 | 103 | 173.5 | 196.1 |
| DCHS2 | 83.5 | 94 | 79.3 | 83.7 | 77.4 | 73.2 | 81.9 | 88.6 |
| DCI | 646.3 | 954.8 | 266.8 | 170.3 | 174 | 205.7 | 525.4 | 564.8 |
| DCK | 105.1 | 128.8 | 149.7 | 139.5 | 125.7 | 129.8 | 106.3 | 149 |
| DCLRE1A | 375.8 | 538.9 | 242 | 191.1 | 209.2 | 285.5 | 343.4 | 413.2 |
| DCLRE1B | 201.5 | 277.8 | 136.8 | 114.3 | 97.8 | 133.9 | 173 | 251.2 |
| DCLRE1C | 267.7 | 301 | 271.1 | 268.5 | 257.6 | 305.1 | 269.3 | 390.9 |
| DCLRE1C | 138.1 | 165.7 | 106.8 | 105.5 | 109.9 | 117.1 | 137 | 158.9 |
| DCLRE1C | 366.9 | 421.6 | 251.9 | 384.4 | 399.6 | 326.7 | 344.2 | 400.5 |
| DCN | 108.5 | 88.9 | 100.3 | 93.4 | 87.2 | 94.2 | 88.8 | 106.3 |
| DCN | 94.4 | 97 | 86.3 | 85.8 | 101.6 | 91.2 | 87.3 | 98.6 |
| DCN | 107.6 | 119.5 | 111.4 | 88.1 | 82.5 | 83 | 97.7 | 100.2 |
| DCP1A | 366.7 | 446.1 | 236.6 | 252.6 | 241.8 | 331.9 | 397 | 642.2 |
| DCP1B | 131.1 | 139 | 104.2 | 110.2 | 95.1 | 105.8 | 112.7 | 134.9 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| DCP2 | 1525 | 2196.2 | 935.5 | 2004.8 | 1316.8 | 2969.5 | 1574.7 | 2186.6 |
| DCPS | 977.5 | 1261.1 | 839.1 | 328.1 | 295.4 | 449.9 | 863.6 | 841.1 |
| DCST1 | 106.8 | 111.4 | 100.7 | 124.6 | 94.9 | 93.5 | 111.7 | 129.6 |
| DCST2 | 77 | 79.9 | 90.9 | 74.9 | 74.8 | 79.8 | 78.8 | 88.2 |
| DCT | 90.7 | 110.7 | 99 | 94 | 92.4 | 92.9 | 93.3 | 98.5 |
| DCTD | 476.7 | 706.3 | 186.9 | 141.8 | 115 | 143.4 | 406.5 | 556.5 |
| DCTD | 1725.6 | 2434.3 | 1732.6 | 1158.6 | 856 | 1337.1 | 1510 | 2594.3 |
| DCTN1 | 725.4 | 877.7 | 571.6 | 597.2 | 488.4 | 559.7 | 515.7 | 927.4 |
| DCTN1 | 139.6 | 157.2 | 90 | 84.3 | 89.4 | 101.7 | 130.8 | 167.6 |
| DCTN1 | 120.7 | 145.6 | 168.1 | 137.2 | 128.7 | 171.2 | 121.6 | 173.2 |
| DCTN2 | 2362.4 | 3019.7 | 1742.4 | 1650.5 | 1257.5 | 1749.2 | 2290.6 | 3122.6 |
| DCTN3 | 113.5 | 126.1 | 95.6 | 89.8 | 86.9 | 99.5 | 108.4 | 121.3 |
| DCTN3 | 3845.4 | 4529.5 | 3679.8 | 2400.1 | 2137.7 | 3213.2 | 3322.2 | 4406.4 |
| DCTN4 | 614.2 | 744.8 | 306.4 | 360.6 | 280.4 | 450.9 | 697.6 | 1080.5 |
| DCTN5 | 1627.9 | 2345.6 | 1538.4 | 1122.4 | 786.9 | 1304.9 | 1389.2 | 1998.3 |
| DCTN6 | 150.6 | 163.1 | 133.7 | 105.8 | 104.7 | 98.6 | 158.3 | 289.5 |
| DC-UBP | 368 | 506.5 | 295.6 | 225.1 | 215.7 | 245.2 | 272.9 | 343.7 |
| DCUN1D1 | 86.6 | 95.4 | 80.8 | 88.8 | 80.5 | 90.7 | 97.7 | 99.3 |
| DCUN1D2 | 137.5 | 201.2 | 127.8 | 113.1 | 101.1 | 137.3 | 134.2 | 175.4 |
| DCUN1D3 | 173.8 | 243.9 | 151.1 | 146.1 | 143 | 161.3 | 197 | 191.7 |
| DCUN1D4 | 548.5 | 673.9 | 172.1 | 196.7 | 151.1 | 243 | 417.9 | 476.1 |
| DCUN1D4 | 489.7 | 596.6 | 400.7 | 403.7 | 312.6 | 545.9 | 439.2 | 638.5 |
| DCUN1D5 | 1719.7 | 1948.8 | 1099.3 | 903.3 | 575.7 | 1343.1 | 1541 | 3196.1 |
| DCX | 98.2 | 107 | 112 | 108.5 | 97.3 | 109.4 | 100.4 | 115.5 |
| DCX | 88.9 | 103.5 | 100.6 | 87.4 | 82 | 90.9 | 103.5 | 104.6 |
| DCXR | 2124.8 | 2705 | 1569.8 | 1099.8 | 818.9 | 1068.1 | 1968.7 | 2596.8 |
| DDA1 | 1663.7 | 1975 | 1251.5 | 837.5 | 726.1 | 758 | 1597.1 | 1960.4 |
| DDAH1 | 223.8 | 211.5 | 133 | 181.6 | 120 | 212.2 | 170.3 | 324 |
| DDAH2 | 192.8 | 190.7 | 109.1 | 112 | 100.3 | 119.4 | 161.8 | 217.1 |
| DDB1 | 5888.2 | 7562.6 | 5392.4 | 4963.4 | 3833 | 5278.9 | 5283.5 | 5821.9 |
| DDB1 | 224.2 | 223 | 120.3 | 132.6 | 127.5 | 110.5 | 169.4 | 206.6 |
| DDB2 | 183.3 | 202.6 | 102.8 | 102.3 | 89.3 | 87.7 | 156.8 | 211.3 |
| DDC | 80.1 | 97.3 | 110.3 | 93 | 102.7 | 97.5 | 88 | 92.2 |
| DDEF1 | 231.8 | 314.9 | 175.6 | 222.7 | 247.2 | 306.6 | 200.5 | 638 |
| DDEF2 | 205.9 | 256.4 | 133.4 | 111.5 | 119.6 | 149.4 | 203.8 | 275.3 |
| DDEFL1 | 133 | 165.1 | 110.2 | 100.6 | 86.5 | 90.7 | 125.3 | 155.5 |
| DDHD1 | 93.4 | 96.2 | 89.2 | 88.6 | 91.5 | 90.5 | 89.5 | 90.3 |
| DDHD2 | 208 | 254.1 | 144.4 | 118.8 | 112.5 | 124.4 | 180.6 | 218 |
| DDI1 | 123.9 | 156.7 | 92.4 | 80.2 | 89.1 | 96.3 | 115.6 | 158 |
| DDI2 | 90.1 | 109.5 | 101.3 | 88.6 | 84.9 | 85.3 | 98.4 | 91.6 |
| DDIT3 | 485 | 601.9 | 319.1 | 331.6 | 319.5 | 584.5 | 496.1 | 743.8 |
| DDIT4 | 541.1 | 723.3 | 308.8 | 637 | 719.5 | 1105 | 697.5 | 966.6 |
| DDIT4L | 120.2 | 155.4 | 104.8 | 121 | 96.2 | 132.6 | 139.4 | 200.4 |
| DDN | 84.5 | 99.1 | 93.3 | 90.9 | 85.3 | 91.9 | 97.1 | 97.4 |
| DDO | 78.9 | 87.6 | 102.1 | 88.8 | 94.7 | 94.4 | 81.8 | 96.2 |
| DDO | 95.3 | 106.1 | 108.1 | 96.7 | 85.6 | 94.9 | 103.7 | 111.7 |
| DDOST | 5808.4 | 7924 | 2439.2 | 2877.4 | 1916 | 2648.2 | 5791.6 | 7092.7 |
| DDR1 | 119.2 | 136.7 | 104.6 | 98.7 | 95.6 | 96.6 | 110.7 | 136.6 |
| DDR1 | 115.1 | 157.4 | 101.8 | 94.1 | 81 | 95.3 | 126.8 | 128.4 |
| DDR1 | 90.4 | 103.1 | 103 | 88.1 | 95.2 | 103.3 | 99.2 | 97.6 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| DDR2 | 105 | 128.5 | 93 | 82.5 | 90.1 | 93.7 | 97.8 | 111.2 |
| DDR2 | 87.1 | 114.6 | 99.3 | 103.2 | 86.1 | 102.9 | 94 | 98.2 |
| DDT | 5857.5 | 7144 | 3842.1 | 4060.9 | 3402.8 | 4892.9 | 5584 | 6045.6 |
| DDX1 | 3927.3 | 4591.6 | 3790.7 | 3332.5 | 2619.8 | 5137.2 | 2982.5 | 5183.5 |
| DDX10 | 920.8 | 1340.6 | 770.3 | 607.9 | 405.4 | 978.3 | 667 | 1182.8 |
| DDX11 | 120.6 | 147 | 115.4 | 98.2 | 93.2 | 94.5 | 119.7 | 130.9 |
| DDX11 | 166.4 | 162.5 | 151.8 | 127.1 | 124.3 | 150.5 | 139.1 | 253.1 |
| DDX11 | 94 | 116.5 | 98.7 | 89.1 | 86.8 | 101.9 | 98.8 | 127.2 |
| DDX17 | 1729.2 | 1860.9 | 586.2 | 868.4 | 548.3 | 992.5 | 1683.5 | 3226.1 |
| DDX17 | 232.5 | 360.5 | 171.2 | 231.1 | 245.9 | 156.2 | 174.7 | 223 |
| DDX17 | 675.2 | 886.8 | 352.7 | 634.6 | 553.1 | 279.1 | 514.2 | 880.6 |
| DDX18 | 2829.7 | 3822.5 | 2308.3 | 2515.8 | 1868.6 | 3408.5 | 2165.9 | 3232.8 |
| DDX19A | 531.9 | 658.7 | 577.7 | 543.5 | 443.9 | 675.5 | 410.8 | 570.5 |
| DDX19B | 2190.8 | 2757.6 | 1212.2 | 1121.2 | 908.6 | 1364.3 | 1669.3 | 1772.5 |
| DDX20 | 208.4 | 229.7 | 136.2 | 111.8 | 106.4 | 125.1 | 171 | 237.5 |
| DDX21 | 3169.4 | 3698.8 | 2216.1 | 1545.4 | 903.1 | 3161.3 | 2424.8 | 5949.4 |
| DDX23 | 554.9 | 700.1 | 623.9 | 364.6 | 321.3 | 425.7 | 466.4 | 907.4 |
| DDX24 | 1261.9 | 1616.9 | 1104.1 | 789.7 | 597.5 | 1281.1 | 1079.2 | 1846.5 |
| DDX25 | 81.1 | 86.9 | 85.5 | 91.2 | 85.9 | 94.2 | 77 | 90.7 |
| DDX26 | 1128.2 | 1706.3 | 896.2 | 984.3 | 906.8 | 1372.7 | 1088.6 | 1510.6 |
| DDX26B | 153.4 | 186.2 | 109.4 | 104.3 | 91.6 | 106.3 | 149.4 | 174.4 |
| DDX27 | 859.3 | 1251.6 | 260.7 | 265.1 | 231.2 | 310.5 | 840.7 | 995.5 |
| DDX28 | 285 | 394.4 | 172.7 | 144 | 130.8 | 169.5 | 257.3 | 364.7 |
| DDX31 | 393.4 | 497 | 306.3 | 245.3 | 182.1 | 278.3 | 289.4 | 334.8 |
| DDX31 | 84.4 | 95.9 | 98.7 | 91 | 92.7 | 82.1 | 85.7 | 85.5 |
| DDX31 | 182.9 | 210.4 | 139.2 | 119 | 97.5 | 107.2 | 138.4 | 168 |
| DDX39 | 7382.7 | 9110.3 | 4370.2 | 2831.3 | 2510.3 | 3418.8 | 6670.2 | 8785.3 |
| DDX3X | 93.4 | 106.9 | 94.7 | 91.1 | 85.3 | 96.1 | 94.8 | 113.2 |
| DDX3X | 1609.1 | 2267.4 | 1319.9 | 1516.9 | 1099.9 | 2444.4 | 1287.4 | 2761.2 |
| DDX3Y | 90 | 108 | 91.1 | 89.9 | 77 | 87.3 | 88.9 | 126.5 |
| DDX4 | 81.2 | 85.6 | 89.3 | 80.1 | 82.3 | 90.4 | 82.1 | 77.5 |
| DDX41 | 734.5 | 972.1 | 540.9 | 475.2 | 406.2 | 666.6 | 647.4 | 943 |
| DDX42 | 116.7 | 125 | 110.8 | 129.5 | 123.9 | 100.2 | 116.1 | 148.4 |
| DDX42 | 1565.6 | 1950.3 | 1160.4 | 1467.5 | 1116.9 | 1875.3 | 1157.5 | 1579.2 |
| DDX43 | 87 | 114.8 | 100.2 | 90 | 87.6 | 88.1 | 97.3 | 108.8 |
| DDX46 | 1415.1 | 1923 | 741.7 | 1041 | 847.6 | 1341.8 | 1122.3 | 1316.4 |
| DDX47 | 886.4 | 1165.7 | 474.3 | 314.5 | 237.5 | 381 | 709.6 | 919.8 |
| DDX47 | 2042.4 | 2923.8 | 870.7 | 679.7 | 563.7 | 774.4 | 1760.1 | 2190.2 |
| DDX48 | 5779.1 | 7648.4 | 4325.1 | 3732 | 2756.9 | 4892.2 | 4584.4 | 6253.8 |
| DDX49 | 221.3 | 232.1 | 120.1 | 127.6 | 100.2 | 117.5 | 165.3 | 180 |
| DDX5 | 8049.7 | 8871.7 | 6406.7 | 6334.9 | 4932.9 | 8738 | 5296.6 | 9373.9 |
| DDX50 | 774 | 1125.1 | 349.1 | 259.4 | 224.5 | 386.2 | 617.5 | 764.5 |
| DDX51 | 4178.8 | 4104.1 | 1971.6 | 2940 | 2801.3 | 1721.8 | 3569.4 | 5731.2 |
| DDX52 | 137.3 | 159.6 | 112.4 | 109.7 | 104.9 | 104.7 | 124.2 | 190.3 |
| DDX53 | 114.2 | 140.9 | 96.7 | 90.5 | 85.8 | 89.6 | 105.8 | 122.4 |
| DDX54 | 277.2 | 329.3 | 221.2 | 245.7 | 208.2 | 252.3 | 283.3 | 379.5 |
| DDX55 | 1398.1 | 1428.4 | 852.1 | 747.2 | 666.4 | 953.9 | 1088.2 | 1422.9 |
| DDX56 | 1728.4 | 1957.5 | 1524.1 | 1108.4 | 817.2 | 1414 | 1254 | 1927.9 |
| DDX58 | 137.6 | 180.7 | 129.7 | 129.4 | 124.4 | 122.6 | 129.4 | 146.2 |
| DDX59 | 759.8 | 924.8 | 507.3 | 516.7 | 410.6 | 719.8 | 716.6 | 1331.2 |

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|----------|--------|--------|--------|-------|-------|-------|--------|--------|
| DDX59 | 104.4 | 108.1 | 89.7 | 86.1 | 76 | 77.3 | 108.3 | 116.2 |
| DDX59 | 147 | 165 | 120.3 | 110.6 | 94.1 | 156 | 143 | 240.6 |
| DDX6 | 126.2 | 142.3 | 123.9 | 101.2 | 99 | 102.9 | 122.7 | 127.4 |
| DEADC1 | 119.4 | 131.4 | 113.7 | 118.4 | 104.9 | 130.5 | 106.3 | 107.9 |
| DEAF1 | 232.3 | 291.4 | 159.1 | 129.3 | 118.1 | 158.4 | 182.5 | 236 |
| DEAF1 | 96.3 | 115.5 | 102.1 | 94.2 | 100 | 86.4 | 107.4 | 101.3 |
| Dec-01 | 96.2 | 98.4 | 96.3 | 82.5 | 73 | 75.8 | 96.6 | 100.3 |
| DECR1 | 5809.1 | 7584.7 | 1404.2 | 662.2 | 539 | 479.7 | 5450.5 | 6165.3 |
| DECR2 | 882.3 | 999.4 | 695.4 | 474.8 | 398.3 | 423.1 | 788 | 823.8 |
| DEDD | 579.3 | 685.3 | 542.4 | 522.4 | 424 | 735.4 | 523.5 | 1025.1 |
| DEDD | 120.1 | 179 | 94.8 | 94.5 | 84.9 | 99.9 | 130.1 | 163.6 |
| DEDD | 267.8 | 347.6 | 246.3 | 189.3 | 169.5 | 223.6 | 242.6 | 321.3 |
| DEDD2 | 1150.2 | 1587.4 | 436.1 | 309 | 320.9 | 333.5 | 1260.4 | 1531 |
| DEF6 | 1018.9 | 1325.1 | 433.7 | 460.1 | 430.3 | 592.6 | 767.6 | 741.2 |
| DEFA1 | 83.8 | 83 | 88.3 | 80.5 | 85.7 | 90.4 | 87.6 | 99.7 |
| DEFA3 | 95.3 | 91.8 | 89 | 84.8 | 76.2 | 81.8 | 84.3 | 96.2 |
| DEFA4 | 108.3 | 129.5 | 110.7 | 118.5 | 104.4 | 117.1 | 108.7 | 112.8 |
| DEFA5 | 97.5 | 102.8 | 96.7 | 95.1 | 89.6 | 94.9 | 99.8 | 92.4 |
| DEFA6 | 75.3 | 90.6 | 89.3 | 83.8 | 80.4 | 79.5 | 80.9 | 85.7 |
| DEFB1 | 538.3 | 620.6 | 447.5 | 665.3 | 507 | 852.9 | 447.8 | 549.8 |
| DEFB103A | 87.8 | 95.7 | 106.1 | 100 | 101.7 | 105.2 | 84.1 | 86 |
| DEFB104B | 89.1 | 102.6 | 82.5 | 87.7 | 81.5 | 83.3 | 85.2 | 86.2 |
| DEFB105A | 84.7 | 108.1 | 101.2 | 85 | 81.1 | 83.6 | 88.4 | 95.3 |
| DEFB106A | 71.3 | 82.4 | 84 | 83.4 | 78.6 | 76.8 | 71.9 | 75.6 |
| DEFB106B | 95.2 | 86.9 | 103.4 | 95.1 | 111.4 | 99.2 | 94.4 | 91.9 |
| DEFB107A | 100.8 | 102.5 | 110.6 | 108.4 | 105.7 | 109.4 | 100.1 | 105.6 |
| DEFB108B | 119.5 | 126.8 | 89.3 | 88 | 83.6 | 83.5 | 97.3 | 115.1 |
| DEFB109 | 86.4 | 111.2 | 94.1 | 88.4 | 71.7 | 92.9 | 95.5 | 105.8 |
| DEFB110 | 90 | 101.1 | 89.6 | 84.8 | 85.2 | 79.3 | 92.6 | 91.2 |
| DEFB111 | 92.1 | 107.1 | 86 | 84.4 | 84.3 | 84.7 | 85.2 | 90.9 |
| DEFB112 | 91.6 | 104.8 | 87.8 | 80.3 | 75.8 | 87.9 | 91.1 | 100 |
| DEFB114 | 94.3 | 110.3 | 93.1 | 85.9 | 82.9 | 81.8 | 98.8 | 108.8 |
| DEFB118 | 103 | 102.9 | 89.5 | 82.9 | 93.6 | 93.3 | 100.9 | 102.9 |
| DEFB119 | 217.2 | 262.4 | 135.1 | 120.4 | 107.8 | 129.1 | 188.4 | 213.7 |
| DEFB119 | 72.7 | 78.8 | 91 | 80 | 82.5 | 75.8 | 73.1 | 83.5 |
| DEFB121 | 77.6 | 79.9 | 82.5 | 84.3 | 74.9 | 71.5 | 80.3 | 83.6 |
| DEFB122 | 99 | 118.6 | 101.5 | 98.4 | 90.5 | 104.7 | 98 | 107.3 |
| DEFB123 | 118.1 | 111.1 | 97.6 | 94.3 | 78.1 | 101.8 | 104.1 | 122.5 |
| DEFB124 | 83.9 | 111.1 | 94.4 | 93.5 | 89.4 | 77.5 | 93.3 | 91.1 |
| DEFB125 | 149.4 | 163.2 | 103 | 93.9 | 84.6 | 96.5 | 129.2 | 169.9 |
| DEFB126 | 78 | 105.5 | 92.3 | 81.4 | 80.5 | 79.8 | 83.1 | 100.7 |
| DEFB127 | 84.9 | 90.8 | 88.4 | 81.7 | 80 | 81.6 | 78.2 | 88.2 |
| DEFB128 | 110 | 119.9 | 97.9 | 93.6 | 92.3 | 88.7 | 97.7 | 102.1 |
| DEFB129 | 112.2 | 123.2 | 86.7 | 83.8 | 72.3 | 78.8 | 133.2 | 116.1 |
| DEFB131 | 133.2 | 192.6 | 110.8 | 101.8 | 87.7 | 102.8 | 151.7 | 187.8 |
| DEFB134 | 81.2 | 86.9 | 88.6 | 80.1 | 77.2 | 85.9 | 81.7 | 85.8 |
| DEFB136 | 80.8 | 86.6 | 95.4 | 84.7 | 81.7 | 83 | 89.7 | 81.6 |
| DEFB137 | 96.2 | 113.2 | 90.8 | 83.7 | 80.7 | 90.8 | 95 | 93.2 |
| DEFB32 | 90.6 | 92.8 | 94 | 79.5 | 88.6 | 89.5 | 80.9 | 89.3 |
| DEFB4 | 93.3 | 102.7 | 94.4 | 83.9 | 82 | 86.4 | 87.1 | 96 |

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|---------|--------|--------|--------|--------|--------|--------|--------|---------|
| DEGS1 | 7923 | 8968.8 | 3039.9 | 3343.7 | 2944.8 | 3814.6 | 7410.8 | 10044.5 |
| DEGS1 | 2958.1 | 4112.6 | 1599.2 | 1327.9 | 1041.4 | 1708.8 | 2790.7 | 6479.1 |
| DEGS2 | 92.5 | 108.4 | 99.2 | 96.1 | 90.4 | 89.4 | 93.7 | 91.6 |
| DEK | 2782.5 | 3461.5 | 1621 | 1611.3 | 1280.1 | 2530.6 | 2429.6 | 4201.3 |
| DENND1A | 1088.7 | 1555.1 | 632.8 | 1108.8 | 919.6 | 1504.5 | 958.3 | 870.3 |
| DENND1A | 116.4 | 126.4 | 107.5 | 108.1 | 103.9 | 123 | 120.4 | 140.6 |
| DENND1A | 367 | 419 | 208.3 | 304.5 | 244.8 | 368.3 | 302.6 | 488.5 |
| DENND1B | 89 | 84.5 | 97.5 | 97 | 91.7 | 91.9 | 75.6 | 89.7 |
| DENND1C | 122 | 139.5 | 111.7 | 119.7 | 105.9 | 116 | 118.9 | 127.5 |
| DENND2A | 93.3 | 104.2 | 87.8 | 84.6 | 87.5 | 82.4 | 90.6 | 95.1 |
| DENND2C | 101.4 | 125.3 | 89.5 | 82.4 | 81.5 | 89 | 103.3 | 132 |
| DENND2D | 348.1 | 424 | 275.2 | 306 | 223.6 | 306.1 | 277.5 | 374.4 |
| DENND3 | 252.2 | 298.2 | 235.2 | 215.7 | 222.7 | 345.6 | 227.2 | 420.9 |
| DENND4A | 392.7 | 554.4 | 187.2 | 190.2 | 160.3 | 252.9 | 354.4 | 540.7 |
| DENND4C | 263.3 | 373.5 | 168.9 | 250.5 | 191.6 | 314.2 | 296.7 | 316.4 |
| DENR | 255.9 | 273.5 | 165.3 | 239.1 | 273 | 238.2 | 253 | 329.2 |
| DEPDC1 | 74.7 | 79.2 | 98.5 | 76 | 69.1 | 77.4 | 79.2 | 80.2 |
| DEPDC1B | 848.6 | 828.2 | 260.8 | 197.8 | 183.2 | 276.6 | 664.4 | 1036.5 |
| DEPDC2 | 76.2 | 84.8 | 87.8 | 86.3 | 81.5 | 93.7 | 81.5 | 88.8 |
| DEPDC2 | 80.2 | 83.4 | 91.5 | 91.7 | 88.7 | 95.9 | 75.3 | 84.7 |
| DEPDC4 | 135.5 | 142.8 | 106.7 | 94.5 | 98.3 | 101.8 | 129.1 | 149 |
| DEPDC5 | 172.1 | 206 | 185.2 | 217.6 | 182.6 | 240.4 | 154.4 | 208.1 |
| DEPDC5 | 98.4 | 113.7 | 101.2 | 94 | 90.9 | 91.9 | 106.8 | 103.2 |
| DEPDC5 | 77.1 | 83.3 | 86.2 | 73 | 70.8 | 80.8 | 78.1 | 77.2 |
| DEPDC6 | 220.6 | 281.3 | 138.9 | 157.9 | 145.4 | 170.7 | 200.4 | 336.3 |
| DEPDC7 | 210.6 | 278.4 | 125.6 | 99.4 | 89.5 | 105 | 160.4 | 207.5 |
| DEPDC7 | 102.5 | 119.9 | 100.9 | 91.6 | 91.3 | 99.9 | 101.3 | 118.3 |
| DERA | 2692.2 | 3145.4 | 1673.9 | 1890.9 | 1180 | 1851.5 | 2094.9 | 2324.3 |
| DERL1 | 1385 | 2026.7 | 996.2 | 842.6 | 627 | 1142.7 | 1095.3 | 2109.3 |
| DERL2 | 371.8 | 478.4 | 200.7 | 172 | 186.5 | 203.5 | 444.3 | 526.3 |
| DERL3 | 91.8 | 95.5 | 113.2 | 93.2 | 89 | 95.6 | 93.1 | 96.8 |
| DERL3 | 133.3 | 139.6 | 87.5 | 88.5 | 88.5 | 100 | 116.9 | 119 |
| DERPC | 113.2 | 127.2 | 84.4 | 78.5 | 85 | 85.7 | 117.3 | 147.4 |
| DERPC | 151.1 | 191.9 | 138.2 | 159.9 | 145.1 | 108.1 | 139.8 | 151.4 |
| DES | 86.8 | 104.2 | 99.8 | 97.2 | 92.7 | 92.2 | 89.4 | 97.2 |
| DET1 | 348.4 | 466.4 | 215.8 | 225.7 | 195 | 287.6 | 314.3 | 465 |
| DEXI | 2563.3 | 3421.7 | 1043.5 | 858.5 | 679.5 | 830.3 | 2387.7 | 2335.5 |
| DFFA | 479.9 | 503 | 314.7 | 407.1 | 327.9 | 226.5 | 352 | 415 |
| DFFA | 288.4 | 364.1 | 140.7 | 116.9 | 126.5 | 128.9 | 276.9 | 287.7 |
| DFFB | 79.7 | 92.5 | 93 | 82.2 | 83.6 | 93.9 | 88.1 | 93.8 |
| DFFB | 273.1 | 318.3 | 243.9 | 259.2 | 224.9 | 293.2 | 271.7 | 324 |
| DFNA5 | 384.4 | 456.2 | 213.6 | 317.9 | 267.9 | 425.9 | 386.4 | 534.2 |
| DFNB31 | 94.9 | 109.4 | 105.7 | 92 | 93.5 | 103 | 105.3 | 103.8 |
| DFNB59 | 103.3 | 128.4 | 99.3 | 96.3 | 89.5 | 93.9 | 110.3 | 125.7 |
| DGAT1 | 562.4 | 671 | 472.5 | 446.8 | 360.3 | 469.7 | 441.7 | 663.6 |
| DGAT2 | 172 | 245.5 | 113.8 | 107 | 85.4 | 109.2 | 153 | 216.7 |
| DGAT2L3 | 85.1 | 90.9 | 106.3 | 93.3 | 99.6 | 115.3 | 89 | 79.3 |
| DGAT2L4 | 77.5 | 84.2 | 97.2 | 99 | 93.7 | 97 | 82.9 | 80.6 |
| DGAT2L6 | 81 | 82.8 | 88 | 78 | 81.9 | 77.5 | 79.5 | 82.1 |
| DGCR13 | 133.4 | 145 | 122.7 | 110.9 | 92.7 | 123.1 | 119.1 | 166.5 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| DGCR14 | 420.4 | 552.5 | 189.3 | 148.6 | 136.5 | 130.8 | 381 | 538.1 |
| DGCR2 | 228.6 | 292.3 | 314.2 | 304.5 | 262.6 | 402.5 | 228.9 | 351.1 |
| DGCR5 | 91.7 | 103.2 | 98.2 | 90.6 | 86 | 95.8 | 87.5 | 92.6 |
| DGCR6 | 193.9 | 272.4 | 167.9 | 164 | 166.7 | 197.7 | 158.6 | 201.6 |
| DGCR8 | 335.1 | 429.2 | 468.8 | 348.5 | 324.3 | 477.2 | 339.9 | 719.7 |
| DGKA | 83.2 | 90.3 | 89.9 | 86.8 | 80.9 | 84.5 | 81.7 | 79.9 |
| DGKA | 88.2 | 88.5 | 93.3 | 94.1 | 81 | 93.2 | 81.9 | 103.1 |
| DGKA | 143.5 | 167.7 | 120 | 110.2 | 99.4 | 126.5 | 127.4 | 156.2 |
| DGKA | 119.7 | 122.2 | 81.3 | 96.7 | 81.3 | 81.9 | 118 | 129.9 |
| DGKA | 135.3 | 150.2 | 113.3 | 82.9 | 90.6 | 107.2 | 115 | 181.1 |
| DGKB | 77.6 | 104.5 | 86.7 | 97.6 | 80.9 | 80.7 | 89.6 | 100 |
| DGKB | 99 | 129.7 | 94.4 | 82.9 | 85.1 | 85.7 | 104.9 | 121.7 |
| DGKB | 74.2 | 91.1 | 94.8 | 85.5 | 83 | 87.7 | 87.1 | 82.3 |
| DGKD | 174.5 | 195.1 | 104 | 102.2 | 74.9 | 105.4 | 163.1 | 194.5 |
| DGKD | 129.3 | 159.9 | 114.9 | 121.2 | 107.5 | 110.5 | 130.6 | 168.9 |
| DGKD | 86.7 | 87.7 | 80.4 | 80.4 | 73.7 | 84.2 | 78.9 | 88.7 |
| DGKE | 114.1 | 145.7 | 91.8 | 83 | 85.4 | 99 | 118.5 | 142.2 |
| DGKG | 108.9 | 129.6 | 107.2 | 104.1 | 96.2 | 102.6 | 127.5 | 171.6 |
| DGKH | 130.9 | 140.7 | 95.4 | 80.7 | 89.4 | 87.1 | 123.6 | 135.9 |
| DGKH | 116.1 | 155.9 | 94.3 | 83 | 91.6 | 88.3 | 123.1 | 153.7 |
| DGKI | 85.1 | 101.8 | 93.6 | 91 | 83.6 | 88.2 | 86.5 | 94.7 |
| DGKK | 78.5 | 79.3 | 99.4 | 85.4 | 91.4 | 88 | 77.3 | 81.3 |
| DGKQ | 444.4 | 468.7 | 578.6 | 519.1 | 364.5 | 659.4 | 371.9 | 791.5 |
| DGKZ | 93.8 | 103.5 | 85 | 78.5 | 85.2 | 84.8 | 86.3 | 103.5 |
| DGKZ | 94.9 | 116.5 | 99.6 | 85.4 | 90.2 | 85.8 | 91.8 | 101.8 |
| DGKZ | 171.7 | 152.9 | 126.5 | 136.6 | 134.5 | 97 | 119.9 | 163.2 |
| DGUOK | 4358.5 | 5369.1 | 2836.5 | 2527.6 | 1945.6 | 2246.4 | 4045 | 4548 |
| DGUOK | 4213.1 | 5153.9 | 2996.2 | 2576.5 | 1803.1 | 2486.1 | 4317.5 | 5723 |
| DGUOK | 510.8 | 623.1 | 305.7 | 337.8 | 278.7 | 387.4 | 422.7 | 512.4 |
| DHCR24 | 430.2 | 559 | 428 | 407.4 | 341.7 | 365.4 | 429.3 | 564 |
| DHCR7 | 313.8 | 405.5 | 296.2 | 284.3 | 314.1 | 359.5 | 282 | 380.3 |
| DHDDS | 219.1 | 277.5 | 238.9 | 255.8 | 191.6 | 329.2 | 215.9 | 305.4 |
| DHDDS | 208.5 | 240.9 | 140.4 | 154.1 | 135 | 178.5 | 188.5 | 273.9 |
| DHDH | 112.4 | 130.4 | 106.4 | 103.1 | 98.5 | 120.8 | 106.6 | 108.2 |
| DHFR | 481.4 | 590.3 | 186.1 | 184.6 | 151.7 | 124.3 | 337.7 | 573.6 |
| DHFRL1 | 112.4 | 115.8 | 106.4 | 99.5 | 98.6 | 103.3 | 109.3 | 133.8 |
| DHH | 90.8 | 107.9 | 109 | 95.1 | 85.5 | 89 | 106.6 | 113.4 |
| DHODH | 134.2 | 167.8 | 130.8 | 104.9 | 96.7 | 115.7 | 105.7 | 129.9 |
| DHODH | 255.5 | 283.9 | 139.8 | 118.6 | 96.6 | 105.1 | 177.2 | 196.4 |
| DHPS | 1187.8 | 1435.5 | 922.2 | 510.1 | 410.4 | 667.9 | 881.8 | 1217.7 |
| DHPS | 938.3 | 1138.1 | 808.2 | 429.1 | 412.5 | 618.6 | 671 | 908.4 |
| DHPS | 1943.3 | 2164.1 | 1223.7 | 969.1 | 729.3 | 1289.7 | 1713.3 | 2711.2 |
| DHRS1 | 444.8 | 633.6 | 277.5 | 291.4 | 274.3 | 250.8 | 395.4 | 408.3 |
| DHRS10 | 101.7 | 108.2 | 104.6 | 100.4 | 90.3 | 94.3 | 101.7 | 92.6 |
| DHRS2 | 134.2 | 135.2 | 106.1 | 94.9 | 87.7 | 93.6 | 120.7 | 123.1 |
| DHRS2 | 88.3 | 97.6 | 103.7 | 78.7 | 75.2 | 79.2 | 91.6 | 94.6 |
| DHRS3 | 105.2 | 106.4 | 99.3 | 103.5 | 112.6 | 118.1 | 104.1 | 109.6 |
| DHRS4 | 3308.8 | 4448.3 | 3095.5 | 2889.1 | 2320.7 | 3779.8 | 2737.3 | 4548.8 |
| DHRS4L2 | 538 | 782.4 | 321.7 | 291.3 | 276.9 | 380.7 | 455.4 | 479.6 |
| DHRS7 | 1628.9 | 2112.6 | 703 | 414.2 | 327.5 | 444.3 | 1738.8 | 2592.2 |

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|--------|---------|---------|--------|--------|--------|--------|--------|--------|
| DHRS7B | 366.9 | 481.5 | 218.9 | 200.8 | 178.4 | 196.4 | 385.9 | 479.7 |
| DHRS8 | 1413.2 | 2103.3 | 497.2 | 356.6 | 281.5 | 496 | 1269.7 | 1881.9 |
| DHRS9 | 11074.3 | 13820.3 | 9400.6 | 8376.9 | 6898.3 | 7079.7 | 7069.1 | 5133.2 |
| DHRS9 | 489.7 | 471.8 | 356.7 | 647.7 | 433.6 | 695.7 | 432.3 | 544.5 |
| DHRS9 | 100.9 | 106.1 | 99.8 | 93.5 | 92.7 | 90.7 | 102 | 98 |
| DHRS9 | 5771.8 | 7873.2 | 2541 | 2071.7 | 1543.3 | 2722.4 | 2963.6 | 3594.4 |
| DHRSX | 148 | 162.4 | 134.6 | 138.7 | 126.6 | 153.7 | 143.2 | 191 |
| DHTKD1 | 216.6 | 238.8 | 117.1 | 144.4 | 118.3 | 155.6 | 188.4 | 264.8 |
| DHX15 | 9623.4 | 11553.2 | 5316.5 | 4361.3 | 3292.2 | 5324 | 7869.2 | 9947.8 |
| DHX16 | 535.9 | 623.1 | 547.1 | 629.5 | 517.5 | 855.7 | 463.9 | 650.9 |
| DHX29 | 894.2 | 1300.1 | 947 | 1026.5 | 840.9 | 1981.2 | 931.2 | 2056.9 |
| DHX30 | 592.7 | 688 | 710.9 | 668.7 | 503.6 | 1051.5 | 506.9 | 995.6 |
| DHX30 | 109.4 | 127 | 93 | 89.9 | 89.7 | 83.1 | 104.7 | 103.6 |
| DHX30 | 264.9 | 367.3 | 279.1 | 271.1 | 216.6 | 354.2 | 233.2 | 466.7 |
| DHX32 | 676.7 | 825.7 | 418.4 | 266 | 235.9 | 327 | 470.2 | 542.3 |
| DHX33 | 479.7 | 623.9 | 431.5 | 435.8 | 354.9 | 498.4 | 330.5 | 562.4 |
| DHX34 | 221.3 | 237.4 | 192.4 | 169.9 | 175.1 | 186.8 | 181.9 | 193.8 |
| DHX35 | 255.5 | 349.6 | 236.9 | 233.4 | 217.7 | 319.8 | 215.2 | 292 |
| DHX36 | 363.8 | 530.8 | 220.2 | 220.9 | 219.3 | 330.2 | 342.2 | 762.3 |
| DHX37 | 868.4 | 1190.2 | 773.6 | 715 | 548.7 | 652.4 | 569.1 | 712.7 |
| DHX38 | 248.1 | 258.6 | 218.6 | 194.1 | 182.8 | 272.6 | 216.9 | 369.1 |
| DHX40 | 633 | 728.9 | 415.8 | 478.4 | 387.9 | 590.1 | 543.7 | 668.7 |
| DHX40 | 340.1 | 368.3 | 185 | 198.4 | 174.8 | 222.2 | 293.4 | 373.1 |
| DHX57 | 98 | 106.3 | 90.7 | 99.1 | 110.4 | 95.9 | 100.7 | 107.5 |
| DHX57 | 94.2 | 94.6 | 96.6 | 90.5 | 91.2 | 86.9 | 103.2 | 96.5 |
| DHX8 | 210.9 | 237.4 | 163 | 185.7 | 162.1 | 209.1 | 197.4 | 234.7 |
| DHX9 | 945.3 | 1328.4 | 537.4 | 528.2 | 429.1 | 523.6 | 577.2 | 852.2 |
| DIABLO | 2344.8 | 3163.5 | 2051.2 | 2271 | 1631.2 | 2460.1 | 2394 | 3279.7 |
| DIABLO | 480.4 | 650.1 | 351.4 | 332.8 | 265.9 | 408.7 | 437.6 | 468.7 |
| DIABLO | 333.7 | 494.8 | 207.8 | 162.9 | 149.6 | 151.5 | 281 | 323 |
| DIAPH1 | 291.7 | 426.1 | 347.4 | 257.4 | 200.2 | 274.7 | 260.9 | 516.8 |
| DIAPH1 | 914 | 1218.2 | 1348.8 | 1269.6 | 891.9 | 1442.6 | 927.9 | 1861.9 |
| DIAPH2 | 499.2 | 648.6 | 292.8 | 464 | 395 | 612.3 | 462.4 | 635.9 |
| DIAPH3 | 315.4 | 437 | 220.4 | 151.7 | 133.5 | 182.8 | 247.3 | 317.3 |
| DIAPH3 | 277.1 | 384.6 | 210.8 | 156.1 | 145 | 169.5 | 232.8 | 295.1 |
| DIAPH3 | 318.9 | 540.8 | 225.8 | 173.7 | 152.2 | 218.2 | 310.8 | 358.3 |
| DICER1 | 86.7 | 100 | 92.3 | 83.1 | 88.5 | 84.7 | 80.9 | 86.2 |
| DICER1 | 121.1 | 146.3 | 98.1 | 89 | 81.4 | 90.2 | 121.4 | 136.8 |
| DICER1 | 125.2 | 170.5 | 101.2 | 108 | 108.7 | 137.3 | 146.1 | 223.5 |
| DIDO1 | 151.1 | 189 | 140.8 | 119.4 | 117.6 | 126.1 | 118.9 | 126.2 |
| DIDO1 | 181.5 | 190.4 | 150.6 | 170.4 | 148.7 | 199.8 | 141.5 | 168.4 |
| DIDO1 | 155.5 | 186 | 109 | 112.2 | 94.5 | 96.5 | 150 | 168 |
| DIO1 | 89.8 | 100.2 | 91.3 | 89.6 | 89.2 | 84 | 84 | 100.9 |
| DIO1 | 86.9 | 108.3 | 98.2 | 90.8 | 86.9 | 90.1 | 99.4 | 107.6 |
| DIO1 | 87.2 | 96.6 | 78.1 | 79.8 | 73.9 | 82.2 | 89.2 | 92.6 |
| DIO2 | 169 | 160.8 | 98.6 | 90 | 85.9 | 88.3 | 137.5 | 144.6 |
| DIO2 | 89.3 | 110.6 | 95.3 | 78.3 | 90 | 77.8 | 94.8 | 96.3 |
| DIO3 | 96.7 | 99.9 | 90.5 | 93.6 | 84.3 | 94.7 | 99.6 | 92.7 |
| DIP | 747.7 | 928.7 | 1033.9 | 1110.8 | 952.7 | 1473.4 | 664.5 | 988.7 |
| DIP13B | 227.2 | 273.8 | 245.7 | 221.9 | 199.9 | 323.6 | 215.9 | 339.1 |

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|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| DIP2A | 90.7 | 101 | 91.9 | 87.7 | 86.8 | 80.5 | 87.8 | 110.3 |
| DIP2A | 88.2 | 97.4 | 97.8 | 95.1 | 86.7 | 89.2 | 86.9 | 94.9 |
| DIP2A | 213.5 | 334.7 | 150.2 | 145.7 | 134.4 | 155.1 | 217.1 | 253.6 |
| DIP2A | 130.8 | 138 | 125.4 | 102 | 109.1 | 117.2 | 113.6 | 169.7 |
| DIP2A | 136 | 164.5 | 138 | 178.6 | 164.1 | 204.7 | 136.3 | 204.9 |
| DIP2B | 403.5 | 559.3 | 404 | 803.8 | 577.9 | 994.5 | 445.9 | 642.4 |
| DIP2C | 84.7 | 89.8 | 90.5 | 93.2 | 81.8 | 79.1 | 92.3 | 100.1 |
| DIPA | 174.8 | 213.2 | 107.7 | 91.7 | 88.9 | 92.6 | 130.2 | 166.3 |
| DIRAS1 | 99.4 | 136.3 | 100.1 | 90.7 | 85.7 | 102.3 | 100.1 | 130 |
| DIRAS2 | 77.1 | 86.4 | 86.9 | 76.3 | 76.3 | 74.8 | 87.4 | 86.1 |
| DIRAS3 | 98.3 | 114.1 | 86.1 | 90.7 | 98 | 94.2 | 94.4 | 101.7 |
| DIRC1 | 85.5 | 93.3 | 90.4 | 83.2 | 79.1 | 89.2 | 84.7 | 88.9 |
| DIRC2 | 344.2 | 460 | 259 | 234.2 | 210.6 | 281.2 | 292.4 | 408.2 |
| DISC1 | 92.3 | 110.3 | 108 | 220.1 | 222.3 | 143.1 | 104.2 | 90.4 |
| DISC1 | 80 | 100 | 93.3 | 86.7 | 77.3 | 91.7 | 88.4 | 96.1 |
| DISC1 | 112.6 | 143.5 | 85.9 | 89.1 | 89.1 | 85.7 | 111.9 | 151 |
| DISC1 | 76.1 | 90.5 | 93.7 | 106.7 | 89.5 | 101.1 | 78.1 | 83 |
| DISP1 | 207 | 253.7 | 149 | 137.4 | 109 | 140.2 | 220.3 | 325.8 |
| DISP2 | 101.3 | 112.9 | 108 | 104.3 | 98.6 | 106.4 | 104.7 | 105.9 |
| DIXDC1 | 126.5 | 165.8 | 124.5 | 120.4 | 119.4 | 136.2 | 106.8 | 181.7 |
| DIXDC1 | 83.1 | 87 | 88.1 | 86.4 | 79.8 | 82.4 | 94.3 | 92.2 |
| DIXDC1 | 129.4 | 185.6 | 124.1 | 102.1 | 94.5 | 134.3 | 119.2 | 134.9 |
| DJ12208.2 | 2255.2 | 2861.2 | 1406.2 | 1595.7 | 1331 | 1902.3 | 1793.9 | 1835.2 |
| DJ222E13.2 | 182.2 | 200 | 164.1 | 145.3 | 119.3 | 139.3 | 137.4 | 238.4 |
| DKC1 | 5492.4 | 6975.9 | 3996.2 | 3663.2 | 2612.8 | 5228.7 | 4012.7 | 6093.4 |
| DKFZP434A | 85.6 | 95.1 | 89 | 84 | 84.1 | 88.9 | 87 | 93.7 |
| DKFZP434A | 279.4 | 318.5 | 132.2 | 132.3 | 136.6 | 119.7 | 207 | 239.1 |
| DKFZP434E | 149 | 181.1 | 151.1 | 156.1 | 138 | 169.1 | 137 | 281.1 |
| DKFZP434E | 83.3 | 87.9 | 98.5 | 86.2 | 89 | 85.9 | 74 | 87 |
| DKFZP434I | 92 | 104.2 | 102.6 | 97.9 | 97.1 | 111.6 | 89.6 | 95.3 |
| DKFZP434K | 599.8 | 844.3 | 432 | 313.1 | 278.1 | 356.6 | 565 | 492.3 |
| DKFZP434C | 69.6 | 88.7 | 83.3 | 84.7 | 77.6 | 84.6 | 74 | 86.9 |
| DKFZP434C | 147.3 | 183.4 | 102.9 | 104.3 | 82.7 | 101.1 | 135.2 | 162.5 |
| DKFZP547C | 177.5 | 208 | 164.3 | 163.4 | 145.5 | 227.9 | 185.6 | 333.1 |
| DKFZP547C | 227.1 | 331.8 | 215.8 | 197.4 | 196.1 | 274 | 239.2 | 319.6 |
| DKFZP547F | 86.9 | 99.9 | 106 | 110.6 | 100.8 | 100 | 86.1 | 87.8 |
| DKFZP564E | 496 | 554.7 | 341.4 | 254 | 223 | 285.6 | 367 | 486.8 |
| DKFZP564J | 1379.6 | 1704.9 | 875.2 | 860.6 | 647.6 | 1047 | 1313.7 | 1377.7 |
| DKFZP564J | 84.9 | 97.9 | 90 | 80.1 | 80.6 | 80.9 | 88.7 | 88.7 |
| DKFZP564J | 86.8 | 103.5 | 82.8 | 81.7 | 88.6 | 91 | 108.5 | 118.8 |
| DKFZP564K | 1219 | 1189.7 | 809.6 | 1303.9 | 1254.7 | 945.4 | 1125.1 | 1923.7 |
| DKFZP564N | 100.3 | 118.2 | 91.6 | 92 | 84.4 | 86.1 | 95.9 | 117.2 |
| DKFZP564C | 329.1 | 423.5 | 202.2 | 157.3 | 152.6 | 182.8 | 303.4 | 387.3 |
| DKFZP564C | 103.6 | 106.9 | 110.6 | 98.2 | 91.8 | 109 | 94.3 | 98.8 |
| DKFZP566N | 100.9 | 128 | 81.4 | 87.8 | 73.6 | 87.3 | 100.1 | 124.3 |
| DKFZP586E | 1022 | 1210.9 | 785.7 | 1073.9 | 770.9 | 999.5 | 781.4 | 1052.9 |
| DKFZP586E | 97.6 | 118 | 90 | 102.8 | 106.1 | 94.4 | 89.4 | 101 |
| DKFZP586F | 85 | 86.8 | 85.5 | 84 | 88.2 | 83 | 82.7 | 84.3 |
| DKFZP586F | 71.9 | 99.2 | 82.3 | 75.6 | 72.7 | 76.2 | 83.2 | 88.1 |
| DKFZP586I | 168.5 | 202.6 | 117.6 | 213.7 | 199.5 | 267.1 | 137.8 | 230.1 |

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|-----------|--------|--------|-------|-------|-------|-------|--------|--------|
| DKFZP586P | 104.7 | 119.8 | 95.7 | 100.9 | 97.4 | 98.6 | 105.1 | 112 |
| DKFZP666C | 73.3 | 81.3 | 91.4 | 80.9 | 79.9 | 74.3 | 74.2 | 81.5 |
| DKFZP667C | 107.4 | 128.5 | 88.9 | 89.3 | 86.7 | 100.5 | 107.4 | 112.3 |
| DKFZP686A | 77.5 | 94.1 | 82.8 | 81.1 | 77.7 | 86.7 | 82.5 | 93 |
| DKFZP686A | 140.2 | 154.7 | 94.8 | 87.1 | 81.4 | 86 | 133 | 160.6 |
| DKFZP686C | 84.8 | 102.2 | 90.2 | 73.6 | 74.8 | 74.9 | 95.6 | 88.8 |
| DKFZP686E | 131.1 | 154.5 | 134.2 | 124.5 | 117.2 | 121.3 | 115.2 | 139.7 |
| DKFZP686I | 98.5 | 105.5 | 100 | 87.5 | 92.3 | 92.4 | 92.8 | 104.5 |
| DKFZP686I | 188.1 | 270.8 | 132.8 | 118.1 | 122.3 | 124.7 | 199 | 241.5 |
| DKFZP686K | 156.1 | 191.8 | 130.9 | 188.3 | 147.9 | 140.8 | 143 | 284.2 |
| DKFZP686L | 540.5 | 646.5 | 273.5 | 323.6 | 244.5 | 310.1 | 564.4 | 798.2 |
| DKFZP761E | 96.1 | 112 | 84.7 | 100.9 | 92.5 | 79.2 | 92.3 | 104.9 |
| DKFZP761E | 146.5 | 138.4 | 115.8 | 114.4 | 101.3 | 102.1 | 127.8 | 185.5 |
| DKFZP761F | 84.4 | 90.6 | 93.7 | 80.8 | 81.7 | 88.7 | 78.3 | 96.1 |
| DKFZP761I | 242.7 | 229.2 | 202.1 | 228.9 | 254.3 | 210.4 | 204.7 | 246.6 |
| DKFZP762E | 791.4 | 1121.5 | 591.5 | 412.6 | 459.7 | 748.7 | 567 | 732.4 |
| DKFZP762I | 567.7 | 581.2 | 259.3 | 373 | 386.1 | 273.6 | 508.1 | 543 |
| DKFZP779E | 132.3 | 162.2 | 103.6 | 91.5 | 90.5 | 103.9 | 129.1 | 141.5 |
| DKFZP779C | 103.8 | 115.5 | 83.6 | 88.9 | 79.7 | 84.3 | 106.3 | 112.7 |
| DKFZP779C | 114 | 124.1 | 97.5 | 104.4 | 98.6 | 89.5 | 117.2 | 116 |
| DKFZP781I | 138 | 152.6 | 119.3 | 105.5 | 98.7 | 120 | 119.3 | 167.3 |
| DKK1 | 73.3 | 77.9 | 97.5 | 72.9 | 73.6 | 84.4 | 69.4 | 78.6 |
| DKK2 | 130.6 | 167 | 114.9 | 91.8 | 86.5 | 105.4 | 109.8 | 150.4 |
| DKK3 | 117.7 | 135.1 | 86.7 | 89.9 | 83.6 | 85.5 | 104.3 | 121.5 |
| DKK3 | 81.4 | 89.6 | 99 | 89.2 | 84.5 | 91.4 | 106.3 | 105 |
| DKK3 | 88.8 | 102.2 | 88.5 | 90.4 | 89.3 | 86.8 | 97.1 | 86.4 |
| DKK3 | 139.4 | 168.3 | 87.4 | 85.8 | 81 | 97.9 | 171.6 | 186.4 |
| DKK4 | 84 | 94.8 | 105.9 | 100.5 | 89.5 | 78.8 | 87.7 | 88.4 |
| DKKL1 | 122.6 | 148.1 | 128.3 | 107.7 | 92.1 | 109.3 | 125.9 | 151.2 |
| DLAT | 801.7 | 1061.5 | 512.5 | 579.2 | 425.1 | 820.3 | 695 | 1185.2 |
| DLC1 | 91.8 | 107.3 | 85.9 | 91.2 | 83.2 | 90.6 | 95.2 | 103.2 |
| DLC1 | 120.7 | 146.9 | 97.2 | 82.6 | 74.3 | 83.4 | 132.6 | 153.7 |
| DLD | 1610.7 | 2189.3 | 409.4 | 547.1 | 397.8 | 683.8 | 1651.6 | 3056.7 |
| DLEC1 | 116.8 | 151.2 | 99.2 | 97.1 | 77.9 | 98.6 | 137 | 141.2 |
| DLEC1 | 78 | 90.4 | 94.7 | 82.9 | 86.2 | 98.5 | 79.2 | 93.9 |
| DLEU1 | 164.9 | 199.9 | 102.3 | 101.5 | 83.7 | 102.7 | 149.9 | 226.1 |
| DLEU1 | 548.8 | 722.5 | 312 | 377.7 | 268 | 449.3 | 384.4 | 602.3 |
| DLEU2L | 94.1 | 115.6 | 98.1 | 104 | 91.1 | 95.8 | 91.6 | 122.9 |
| DLEU7 | 111.2 | 131 | 105.6 | 98.5 | 98.8 | 91.7 | 107.1 | 118.3 |
| DLG1 | 129 | 158.1 | 86.8 | 76.6 | 75.6 | 96.5 | 110.4 | 130.4 |
| DLG2 | 77.9 | 96.2 | 115.5 | 104.8 | 98.6 | 104.1 | 85.2 | 88.3 |
| DLG3 | 120.2 | 133.6 | 97.9 | 88.6 | 91.1 | 94.2 | 126.8 | 123.1 |
| DLG3 | 75.2 | 73.8 | 83.1 | 79.1 | 74 | 87.7 | 77.7 | 79.2 |
| DLG3 | 82.4 | 92 | 101.5 | 87.2 | 84.8 | 91.6 | 85.7 | 80.9 |
| DLG4 | 143.1 | 166.7 | 146 | 126.2 | 128.9 | 136.5 | 122.8 | 172.6 |
| DLG5 | 110.3 | 134.3 | 92.2 | 88.4 | 85.1 | 86.5 | 116.8 | 142.1 |
| DLG7 | 1522.7 | 1790.1 | 659.6 | 365.6 | 324 | 751.5 | 1053.4 | 1831.6 |
| DLGAP1 | 80.6 | 94.2 | 88.5 | 90.6 | 77.8 | 88.9 | 82.3 | 95.4 |
| DLGAP1 | 100 | 107 | 90.8 | 90 | 81.4 | 81 | 107.7 | 114.7 |
| DLGAP2 | 190.4 | 217.2 | 126.8 | 117.1 | 113.3 | 136.9 | 177.7 | 207.3 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| DLGAP3 | 82.5 | 96.6 | 93.3 | 76.6 | 83.8 | 88.1 | 75.1 | 93.4 |
| DLGAP4 | 81.3 | 94.9 | 94.5 | 89.5 | 95.3 | 78.4 | 84.5 | 84.2 |
| DLGAP4 | 75 | 81.2 | 84 | 75.7 | 79.3 | 80.9 | 83.1 | 85.5 |
| DLGAP4 | 139 | 161.5 | 160.9 | 168.1 | 141.1 | 197.1 | 147.7 | 282.3 |
| DLK1 | 94.9 | 109.2 | 86.6 | 89.8 | 80.5 | 88.5 | 97.9 | 104.6 |
| DLK1 | 88.1 | 103.4 | 99.1 | 82.5 | 79.9 | 89.2 | 87.6 | 91.6 |
| DLL1 | 167.5 | 229.8 | 185.3 | 273.8 | 255.1 | 327.8 | 155.5 | 214.1 |
| DLL3 | 81.6 | 83.7 | 90.9 | 80.7 | 84.1 | 74.9 | 81.7 | 93.4 |
| DLL3 | 308.1 | 341.2 | 269.2 | 110.4 | 87.5 | 105.2 | 235.6 | 332.6 |
| DLL4 | 111.6 | 120.5 | 92.4 | 89.2 | 82.7 | 85.4 | 90.1 | 109.3 |
| DLNB14 | 387.2 | 408.4 | 285 | 272.6 | 284.1 | 309.4 | 328.2 | 501.2 |
| DLST | 437.5 | 640.5 | 432 | 425.9 | 367.6 | 548.1 | 450.7 | 739.1 |
| DLX1 | 211.1 | 217 | 139.9 | 106.2 | 103.9 | 107.5 | 136 | 181 |
| DLX1 | 707.4 | 764.9 | 506.6 | 379.9 | 302.6 | 401.2 | 562.8 | 788.7 |
| DLX2 | 104.8 | 146.6 | 86.8 | 86.5 | 81.7 | 83.3 | 101 | 99.9 |
| DLX3 | 166.1 | 187.4 | 114.1 | 116.9 | 95.4 | 108.2 | 191.1 | 232.8 |
| DLX4 | 105.7 | 129.1 | 115.3 | 114.9 | 95.3 | 92.7 | 91.4 | 112.1 |
| DLX4 | 98.9 | 108.3 | 98.5 | 93.3 | 91.8 | 88 | 103.5 | 97.8 |
| DLX4 | 86.2 | 90 | 103.8 | 93.4 | 84.3 | 103.7 | 81.2 | 83.6 |
| DLX5 | 73.8 | 82.4 | 85.6 | 86.9 | 86.8 | 86.6 | 77.3 | 77.7 |
| DLX6 | 81.5 | 89 | 100.1 | 94.7 | 90.7 | 84.5 | 86.4 | 87.6 |
| DMAP1 | 644.5 | 842.6 | 552.6 | 552.3 | 523.6 | 684 | 618.6 | 734.6 |
| DMAP1 | 416.3 | 569.6 | 252.6 | 241 | 224.4 | 287.9 | 385.1 | 374.7 |
| DMBT1 | 77 | 86.7 | 88 | 87.9 | 82.6 | 94 | 82.7 | 81.4 |
| DMBX1 | 82.4 | 101.3 | 95.2 | 93.3 | 94.3 | 92.6 | 85.2 | 94.5 |
| DMC1 | 2392.4 | 2254.1 | 1212.8 | 1934.1 | 1746.1 | 1644.4 | 2183.1 | 3020.1 |
| DMD | 114.2 | 150.6 | 99.5 | 85 | 85.9 | 85.9 | 115.5 | 114.9 |
| DMD | 78.4 | 84.2 | 95 | 86.9 | 89.3 | 87.4 | 80 | 89.7 |
| DMD | 168.2 | 199.4 | 168.5 | 167.2 | 165.9 | 176.9 | 139.1 | 173.6 |
| DMD | 91.8 | 100.2 | 93.5 | 96.6 | 86.7 | 93.2 | 92.6 | 106.6 |
| DMD | 84.1 | 80.4 | 95.3 | 84.6 | 79.2 | 89.9 | 84.4 | 82.3 |
| DMD | 93.7 | 108.6 | 95 | 88 | 72.1 | 87.7 | 109.7 | 98.7 |
| DMD | 133.5 | 182.9 | 117.5 | 118.3 | 108.5 | 118.3 | 137.6 | 168.8 |
| DMD | 92.2 | 110.4 | 86.5 | 73.2 | 87.2 | 76.7 | 98.3 | 108.4 |
| DMGDH | 92.3 | 104.8 | 103.2 | 98.3 | 93.5 | 95.3 | 86.9 | 100 |
| DMN | 177.2 | 201 | 164.4 | 172.7 | 137.5 | 166.8 | 183.6 | 235.9 |
| DMN | 88.8 | 114.4 | 87.3 | 79.7 | 78.6 | 91.6 | 90.4 | 94.4 |
| DMP1 | 73.3 | 85.4 | 86.2 | 91.2 | 78.2 | 85 | 75.8 | 78.8 |
| DMPK | 91.2 | 108.9 | 116.6 | 93.9 | 94.6 | 90 | 94.3 | 100.3 |
| DMPK | 85.2 | 95.9 | 95.7 | 92.2 | 82.7 | 91.8 | 93.4 | 103.8 |
| DMRT1 | 148.8 | 161.7 | 134.3 | 101.9 | 101.7 | 105.5 | 111.7 | 159.6 |
| DMRT2 | 284.6 | 332.8 | 174.6 | 195 | 170.7 | 227.2 | 172.6 | 209.6 |
| DMRT2 | 81 | 102 | 102.5 | 96.1 | 83.4 | 98.8 | 89.9 | 100.8 |
| DMRT3 | 154 | 177.9 | 126.8 | 132.6 | 136.9 | 169.7 | 128.4 | 122.4 |
| DMRTA1 | 91.6 | 106.1 | 91.5 | 92.8 | 77.7 | 87.5 | 94.1 | 97.7 |
| DMRTB1 | 86 | 98.9 | 98.2 | 90.8 | 97.5 | 86.8 | 87.9 | 83.1 |
| DMRTC2 | 91.1 | 102.7 | 91.8 | 78.9 | 79.8 | 79.4 | 94 | 99.4 |
| DMTF1 | 429.4 | 551.9 | 295.5 | 442.1 | 387.2 | 681.7 | 372.2 | 520 |
| DMWD | 131.9 | 130 | 102.3 | 92.4 | 93 | 95.3 | 121.8 | 154.3 |
| DMXL1 | 86.3 | 98.4 | 94.8 | 99.8 | 97.2 | 123 | 101.9 | 107.5 |

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|---------|---------|---------|--------|--------|--------|--------|---------|--------|
| DMXL2 | 160.6 | 182.3 | 142.9 | 220.1 | 222.8 | 285.3 | 131.4 | 146.8 |
| DNA2L | 283.7 | 324.6 | 182.3 | 149.2 | 145.7 | 212 | 236.6 | 265.7 |
| DNA2L | 297.1 | 356.8 | 186.1 | 165.8 | 155.2 | 168.8 | 203.2 | 252.3 |
| DNAH1 | 150.4 | 164.7 | 140.5 | 150.1 | 145.7 | 176 | 120.5 | 147.9 |
| DNAH10 | 91.1 | 101 | 103.9 | 103.6 | 91.6 | 95 | 89.7 | 92 |
| DNAH11 | 76.9 | 87.6 | 88.1 | 82.3 | 79.4 | 81.9 | 77.7 | 73.9 |
| DNAH17 | 83.4 | 87.6 | 91.7 | 84.6 | 85.3 | 92.4 | 85.6 | 89.8 |
| DNAH3 | 99.2 | 105.6 | 96.8 | 81.2 | 84.4 | 83.4 | 97.1 | 100.3 |
| DNAH5 | 116.7 | 137.5 | 108 | 95.2 | 87.2 | 87.7 | 118.3 | 154.3 |
| DNAH7 | 87.9 | 93.1 | 108.7 | 101.3 | 97.5 | 105 | 91.2 | 92.4 |
| DNAH8 | 121.6 | 142.2 | 95.6 | 83.9 | 87.4 | 96.6 | 119 | 129 |
| DNAH9 | 117.6 | 122.5 | 111.9 | 82.2 | 87.9 | 97.7 | 116.6 | 127.3 |
| DNAH9 | 104.8 | 112.4 | 88.1 | 77.5 | 75 | 83.8 | 100.3 | 130.7 |
| DNAH9 | 89.6 | 99.8 | 87.2 | 88.6 | 79.6 | 88.7 | 89.3 | 105.1 |
| DNAHL1 | 101.4 | 98.8 | 80.9 | 73.2 | 65.5 | 81.5 | 94.8 | 114.6 |
| DNAI1 | 103.3 | 119.5 | 100.4 | 104.6 | 84.3 | 94.6 | 108.6 | 98.9 |
| DNAI2 | 212 | 287.2 | 136.4 | 144.2 | 144.5 | 181.4 | 208.2 | 214 |
| DNAJA1 | 12715.4 | 15080.6 | 8951.6 | 5887.6 | 5359.3 | 9207.5 | 10739.2 | 15656 |
| DNAJA2 | 3272 | 4096.5 | 1678.2 | 1575.1 | 1071.8 | 2149.6 | 2789.7 | 4889.7 |
| DNAJA3 | 3332.2 | 4447 | 2836.1 | 1484.6 | 1136.1 | 1813.4 | 2612.1 | 3337.8 |
| DNAJA4 | 1470.6 | 1791.9 | 1136.8 | 707.6 | 558.2 | 890 | 1206.3 | 1983.1 |
| DNAJA5 | 144.5 | 192.6 | 128.5 | 113.3 | 104.5 | 126.2 | 136.2 | 142.6 |
| DNAJA5 | 85.2 | 84.9 | 97.1 | 90.3 | 87.7 | 89.2 | 85.4 | 95.7 |
| DNAJB1 | 1236.3 | 1760.5 | 953 | 496.1 | 411.5 | 672 | 1227.1 | 2508.3 |
| DNAJB11 | 5680 | 7354.7 | 4827.5 | 5049.2 | 3770.4 | 6339.8 | 6048 | 8432.7 |
| DNAJB12 | 200.7 | 250 | 109.8 | 104 | 111.4 | 119.7 | 204 | 249.5 |
| DNAJB12 | 212.2 | 296.1 | 151.7 | 128.8 | 138.2 | 145 | 218.4 | 183 |
| DNAJB12 | 312.4 | 385.7 | 177.4 | 142.6 | 110.1 | 121.8 | 228.2 | 282.8 |
| DNAJB13 | 120.8 | 144 | 102.6 | 82.4 | 79.5 | 85.8 | 113.9 | 131.6 |
| DNAJB14 | 167.1 | 245.9 | 98 | 93.2 | 91.4 | 87.6 | 156.2 | 210.4 |
| DNAJB14 | 504.4 | 599.2 | 187.1 | 284.4 | 254.2 | 241.5 | 440.8 | 820.3 |
| DNAJB14 | 91.3 | 89 | 91.9 | 87.9 | 86.8 | 93 | 88.8 | 97 |
| DNAJB2 | 106.7 | 110.3 | 96.1 | 100.3 | 95.1 | 104.2 | 99.2 | 109.9 |
| DNAJB2 | 305.4 | 385.5 | 275.9 | 285.4 | 245.7 | 373.1 | 315.5 | 522.7 |
| DNAJB4 | 108.3 | 106.2 | 98.7 | 81 | 80.7 | 100.1 | 105.7 | 171.8 |
| DNAJB5 | 89.8 | 99.1 | 100.9 | 95.4 | 97.3 | 92.6 | 88.6 | 102.1 |
| DNAJB5 | 85.4 | 94.2 | 90.3 | 91.3 | 85.8 | 96.9 | 86.7 | 95.2 |
| DNAJB6 | 1812.5 | 2480.9 | 898.8 | 801.6 | 687.6 | 928.8 | 1450 | 2013 |
| DNAJB6 | 1415 | 2006.3 | 1287.1 | 1480.3 | 1310.9 | 2352.3 | 1354.7 | 2621.5 |
| DNAJB7 | 97 | 100.1 | 95.3 | 92.6 | 92 | 92.8 | 103.6 | 99.1 |
| DNAJB8 | 140.1 | 170 | 118.5 | 92.4 | 97.8 | 107.1 | 148.1 | 166.6 |
| DNAJB9 | 323.7 | 407.2 | 276.2 | 239.3 | 241.7 | 315 | 339.7 | 629.6 |
| DNAJC1 | 170.1 | 210 | 158.3 | 128.4 | 114.5 | 145.3 | 179.6 | 292.7 |
| DNAJC10 | 1013.2 | 1179.7 | 471.8 | 599.5 | 365.6 | 769.1 | 867.4 | 1247 |
| DNAJC11 | 213.1 | 280.7 | 123.7 | 118.5 | 111.4 | 118.7 | 193 | 268.4 |
| DNAJC12 | 102.9 | 112.9 | 94.4 | 84.6 | 98.4 | 88.4 | 96.3 | 97.5 |
| DNAJC12 | 78 | 97 | 84.4 | 80 | 81.6 | 76.5 | 75.6 | 99 |
| DNAJC12 | 114.5 | 125.9 | 79.2 | 86.2 | 80.5 | 80 | 99.9 | 142.4 |
| DNAJC13 | 259 | 380.6 | 258.8 | 238.9 | 250.9 | 328.3 | 269.4 | 281.2 |
| DNAJC14 | 270.2 | 367.9 | 256.5 | 367.1 | 261.7 | 523.6 | 251.6 | 393.4 |

| | | | | | | | | |
|----------|--------|---------|--------|--------|--------|--------|--------|--------|
| DNAJC15 | 817.9 | 1028.6 | 431.7 | 506.1 | 373.4 | 652.4 | 619.7 | 938.1 |
| DNAJC16 | 114.9 | 134.2 | 99.2 | 100.7 | 97.5 | 103.2 | 109.1 | 124.9 |
| DNAJC17 | 447.7 | 582.6 | 259.2 | 250.6 | 257.9 | 340.6 | 393.2 | 379.8 |
| DNAJC18 | 150.2 | 164.6 | 124 | 120.7 | 114.3 | 125 | 124.7 | 139.4 |
| DNAJC19 | 304.6 | 370.2 | 212.4 | 206.9 | 152.1 | 216.1 | 242.8 | 379.9 |
| DNAJC3 | 295.1 | 331.3 | 157.4 | 152.4 | 117.3 | 143.2 | 344.1 | 512 |
| DNAJC4 | 131 | 144.4 | 122.8 | 116.7 | 104.8 | 108.5 | 134.7 | 132 |
| DNAJC5 | 270.6 | 355.6 | 276.9 | 240.2 | 193.7 | 248 | 244.7 | 369.3 |
| DNAJC5B | 121.1 | 151.4 | 102.3 | 113.3 | 114.9 | 120.6 | 120.2 | 156.1 |
| DNAJC5G | 121.6 | 125.6 | 98 | 88.6 | 89.7 | 90.5 | 109 | 118.3 |
| DNAJC6 | 82.3 | 93.6 | 89.3 | 85.8 | 74.5 | 99.2 | 74.8 | 86.6 |
| DNAJC7 | 2145.2 | 3061.5 | 734.7 | 611.6 | 573.2 | 788.9 | 2059.2 | 2922.1 |
| DNAJC8 | 8585.9 | 10701.5 | 6498.8 | 7082.4 | 6886.3 | 10007 | 7897.9 | 8292.3 |
| DNAJC9 | 4135.1 | 5349.4 | 2188.9 | 1260.8 | 999.2 | 1527 | 3285.7 | 4048.9 |
| DNAL1 | 125.6 | 131.5 | 96.2 | 91.5 | 88.2 | 90.6 | 112.3 | 129.2 |
| DNAL4 | 537.4 | 676.3 | 478.9 | 529.9 | 425.2 | 530.6 | 481.4 | 848.4 |
| DNALI1 | 179.4 | 212.6 | 107.6 | 100.1 | 89.8 | 105.4 | 182.8 | 198.9 |
| DNAPTP6 | 590.7 | 824.6 | 476.4 | 478.8 | 431.2 | 828.9 | 543 | 1334.8 |
| DNASE1 | 121.2 | 137.4 | 101.9 | 101.3 | 103 | 108.6 | 114.1 | 127.8 |
| DNASE1L1 | 355.3 | 488.7 | 310.7 | 383.4 | 293.6 | 526.9 | 334.2 | 662.5 |
| DNASE1L1 | 95.9 | 93.4 | 93.2 | 83.8 | 75.7 | 88.5 | 91.2 | 103.9 |
| DNASE1L1 | 242.7 | 264.6 | 143.4 | 150.7 | 130.4 | 138.5 | 205.4 | 240 |
| DNASE1L1 | 100.2 | 108.8 | 96.8 | 81.6 | 91 | 91.7 | 102.3 | 107.9 |
| DNASE1L2 | 98.5 | 109.3 | 120.2 | 96.5 | 106.1 | 128.4 | 92.7 | 126.5 |
| DNASE1L3 | 78.5 | 92.1 | 108.9 | 99.7 | 84.9 | 78.2 | 79.3 | 79.4 |
| DNASE2 | 1601.8 | 1718.9 | 915.7 | 1469.9 | 866.9 | 1463.4 | 1850.7 | 2353 |
| DNASE2B | 151.1 | 175.3 | 101.3 | 97.7 | 86.2 | 98.4 | 168.9 | 161.8 |
| DNASE2B | 84.2 | 101.2 | 99.2 | 103.1 | 87 | 83.7 | 85.1 | 100.3 |
| DNASE2B | 81.6 | 86.6 | 110.4 | 106.7 | 100.2 | 100.7 | 81 | 81.6 |
| DNCL2A | 1586.3 | 2177.2 | 837.5 | 398.7 | 348.1 | 391.4 | 1622.8 | 2329.1 |
| DNCL2A | 819.7 | 1023.2 | 405.4 | 261.2 | 229.1 | 265.9 | 757.4 | 1032.6 |
| DND1 | 93.5 | 87.6 | 103.4 | 99.7 | 101.3 | 100.4 | 80.1 | 90.3 |
| DNER | 79.6 | 97.7 | 89.4 | 88.8 | 74.2 | 81.9 | 86.8 | 90.1 |
| DNHD1 | 156.9 | 162 | 112.1 | 111.5 | 113.3 | 135.1 | 145.3 | 164.2 |
| DNHD2 | 80.9 | 85.7 | 87.7 | 82.6 | 81.3 | 83.4 | 84.3 | 96.5 |
| DNHD3 | 76.7 | 82.7 | 93.4 | 79.6 | 79.5 | 88.1 | 76.6 | 81.2 |
| DNM1 | 116.5 | 133 | 147.3 | 118.8 | 109.2 | 111.8 | 126.8 | 175.1 |
| DNM1L | 758.2 | 1010.6 | 617.3 | 837.6 | 667.6 | 926.2 | 646 | 1265.6 |
| DNM1L | 479.4 | 591.3 | 228.3 | 190 | 141.7 | 243.7 | 378.8 | 726.6 |
| DNM2 | 130.7 | 151.2 | 170.4 | 149.5 | 134 | 165.7 | 139.2 | 176.6 |
| DNM2 | 238.1 | 297.6 | 305.7 | 202.7 | 230 | 298.3 | 226.7 | 375.2 |
| DNM3 | 88.9 | 100.1 | 101.1 | 96.6 | 89.5 | 102.9 | 90.6 | 107.1 |
| DNMBP | 90 | 102.8 | 99.3 | 99.7 | 88.8 | 95.8 | 98.1 | 106.5 |
| DNMT1 | 7009.2 | 8969.1 | 6141.1 | 5136.9 | 4751.7 | 6030.1 | 5239.8 | 4862.9 |
| DNMT2 | 126.7 | 153.2 | 111.4 | 92.1 | 84.2 | 106.3 | 104 | 133.9 |
| DNMT3A | 87.1 | 97.5 | 99.7 | 91 | 83.3 | 97.1 | 88.2 | 105 |
| DNMT3A | 110.4 | 119.1 | 95.5 | 86.2 | 84.7 | 86.7 | 116.9 | 115.6 |
| DNMT3A | 122.9 | 138.3 | 93.3 | 84.3 | 85.8 | 97 | 111.2 | 116.7 |
| DNMT3B | 101.3 | 130.6 | 102.5 | 101.1 | 103.7 | 101.9 | 99.4 | 107.4 |
| DNMT3B | 182.5 | 213.4 | 125.1 | 114.9 | 98.2 | 140.4 | 144.3 | 204.2 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| DNMT3B | 92 | 94.9 | 97.5 | 91.6 | 101.9 | 94.1 | 92 | 95.8 |
| DNMT3L | 82.9 | 107.5 | 82.8 | 84.5 | 80.1 | 82.5 | 88.3 | 96.3 |
| DNMT3L | 97.4 | 109.3 | 103.5 | 103 | 97.6 | 108.6 | 101.7 | 93.8 |
| DNPEP | 256.5 | 260.5 | 159.1 | 117 | 102.3 | 125.7 | 209.3 | 268.1 |
| DNTT | 93.7 | 88.7 | 94.1 | 88.9 | 95 | 84 | 93.2 | 98 |
| DNTT | 87.7 | 95.9 | 95.7 | 90.7 | 90.1 | 88.5 | 78.3 | 79.5 |
| DNTTIP1 | 1570.6 | 2272.3 | 726.1 | 761.2 | 726.5 | 1159.2 | 1898.1 | 2361.1 |
| DNTTIP2 | 88.3 | 104.4 | 95.8 | 89.8 | 86.8 | 84.9 | 93.2 | 125.6 |
| DOC1 | 304 | 361.4 | 237.9 | 372.7 | 255.8 | 653.8 | 213.1 | 292.7 |
| DOC1 | 260.4 | 353.4 | 245.7 | 356.1 | 268.4 | 669.7 | 221.4 | 303.8 |
| DOC1 | 93.5 | 117.6 | 87.8 | 91.2 | 80.4 | 87.9 | 98.6 | 106.5 |
| DOC2A | 109.3 | 125.1 | 96.5 | 89.8 | 88.8 | 94.6 | 98.5 | 116.7 |
| DOC2B | 85.1 | 99.7 | 100.5 | 93.3 | 102.3 | 93 | 88.1 | 94.7 |
| DOCK1 | 103.9 | 117.6 | 106.2 | 87.7 | 89.2 | 99.3 | 117.4 | 113 |
| DOCK10 | 1416.7 | 1844.1 | 943.4 | 1699.5 | 1066.7 | 2599.6 | 1131.6 | 1654.6 |
| DOCK11 | 798 | 1206.5 | 411.8 | 666.5 | 496.8 | 915.4 | 814.6 | 1096.7 |
| DOCK2 | 3518.5 | 4696.8 | 3109.1 | 6026.9 | 4992.4 | 6665.8 | 3408.2 | 2884.6 |
| DOCK3 | 82.9 | 86.3 | 92.5 | 94.1 | 83.7 | 82.6 | 83.4 | 84.2 |
| DOCK4 | 87.8 | 111.2 | 87.3 | 83 | 76 | 76.2 | 91.8 | 112.1 |
| DOCK5 | 156.4 | 192 | 118 | 113.2 | 103.5 | 132.1 | 153.7 | 198.8 |
| DOCK6 | 144.7 | 160.3 | 190.6 | 145.2 | 140 | 174.1 | 125.9 | 193 |
| DOCK7 | 85.9 | 99.7 | 91.2 | 80.5 | 79.9 | 92.7 | 92.6 | 91.7 |
| DOCK8 | 1565.7 | 2174.5 | 1176.8 | 1570.6 | 1115.1 | 2523.6 | 1614.2 | 3158.4 |
| DOCK9 | 109.3 | 121.6 | 96.5 | 96.1 | 84.1 | 105.2 | 102 | 111.8 |
| DOK1 | 115.6 | 133.3 | 100.6 | 92.5 | 80.9 | 81.1 | 117.7 | 141.5 |
| DOK2 | 178.3 | 225.6 | 98 | 94.3 | 108.5 | 86.7 | 182.9 | 316.8 |
| DOK2 | 379.7 | 495.3 | 150.6 | 121.2 | 112.4 | 118.2 | 388.3 | 628.1 |
| DOK3 | 114.5 | 116.5 | 104 | 127.3 | 114.6 | 152.7 | 101.6 | 130.9 |
| DOK4 | 158.9 | 194.7 | 113.9 | 101.1 | 88.8 | 106.7 | 166.3 | 197 |
| DOK5 | 82.3 | 90.5 | 95.4 | 75.9 | 80.2 | 74.4 | 83 | 90.6 |
| DOK6 | 81.2 | 84.8 | 102.8 | 100.2 | 91.7 | 102.5 | 83.2 | 84.3 |
| DOLPP1 | 376.5 | 440.9 | 251.1 | 177.9 | 149.7 | 189.9 | 378.6 | 426.9 |
| DOM3Z | 455.2 | 533.3 | 405.5 | 372.5 | 348 | 522.2 | 361.2 | 479.4 |
| DONSON | 875.1 | 1154.4 | 599.9 | 522.2 | 404.8 | 777.4 | 617.5 | 1404.6 |
| DONSON | 336 | 476.9 | 171.2 | 144.1 | 128.3 | 206.1 | 225.4 | 350.8 |
| DOPEY1 | 144.3 | 177.8 | 147.4 | 168.1 | 159.3 | 232.2 | 130.2 | 169.8 |
| DOPEY2 | 583.9 | 713.5 | 440.1 | 699.9 | 585.9 | 686.8 | 522.8 | 672.7 |
| DOT1L | 128.6 | 149.8 | 104 | 103.5 | 92.1 | 110.3 | 123.3 | 141.9 |
| DP58 | 81.1 | 92.8 | 89 | 86.9 | 88.5 | 79.7 | 79.2 | 84.8 |
| DPAGT1 | 520.1 | 625.5 | 244.5 | 138.2 | 118.3 | 115 | 390.9 | 479.5 |
| DPAGT1 | 1292.8 | 1540.6 | 737.8 | 521.2 | 423.8 | 535.7 | 1078 | 1250.9 |
| DPCR1 | 93.5 | 119.6 | 101.7 | 97.2 | 99.8 | 94.9 | 115.7 | 106.8 |
| DPEP1 | 103.3 | 108.8 | 88.2 | 83.4 | 87.2 | 88.2 | 95.8 | 108.7 |
| DPEP2 | 79.1 | 99.6 | 103.5 | 99.1 | 100.8 | 109.8 | 92 | 86.2 |
| DPEP3 | 106 | 116.1 | 102.2 | 91.9 | 95.2 | 97.6 | 106.8 | 119.2 |
| DPF1 | 107.1 | 114.4 | 130.2 | 100.6 | 100.5 | 103.8 | 104.4 | 107.3 |
| DPF2 | 1039.6 | 1401.6 | 770.5 | 473.5 | 404.9 | 485.2 | 1011 | 1177.5 |
| DPF3 | 91.7 | 97.1 | 104 | 94.9 | 96.7 | 95.5 | 80.1 | 105.5 |
| DPH1 | 118.7 | 141.7 | 113.3 | 97.7 | 99.4 | 96.9 | 115.7 | 138.2 |
| DPH2 | 243.4 | 332 | 169.4 | 132.9 | 115 | 99.7 | 182.2 | 243.4 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| DPH2 | 141.8 | 161.9 | 131.5 | 111.3 | 102.8 | 105.5 | 111.7 | 131.7 |
| DPH2 | 1827.7 | 2288.2 | 940.4 | 842.2 | 538 | 928.1 | 1266.8 | 1607.9 |
| DPH3 | 642 | 722.9 | 465.7 | 423.2 | 299.1 | 393.7 | 564.7 | 751.6 |
| DPH3 | 256.4 | 273.8 | 162.5 | 149.2 | 130.2 | 172.3 | 177.1 | 203.1 |
| DPH5 | 1686.7 | 2288 | 990.2 | 465.5 | 356.4 | 685 | 1271.2 | 1273.1 |
| DPH5 | 1352.7 | 1778.9 | 719.3 | 307.7 | 231.9 | 398 | 1260.2 | 1456.7 |
| DPM1 | 4614.3 | 4629.7 | 1946 | 2069.5 | 1267.6 | 2038.7 | 4279 | 6674.3 |
| DPM2 | 570.6 | 752 | 482.2 | 215.7 | 182.1 | 204.5 | 537.5 | 610 |
| DPM3 | 1659.5 | 2070.6 | 1107.9 | 826.8 | 851.7 | 978.1 | 1754.1 | 2082.1 |
| DPM3 | 2009.2 | 2335.6 | 1922.1 | 1607.7 | 1472.8 | 1769 | 2198.1 | 2443 |
| DPP10 | 84.6 | 100.1 | 102.2 | 93.9 | 87.4 | 87.4 | 88.8 | 100.4 |
| DPP10 | 96.9 | 115.2 | 88.7 | 93.7 | 83.4 | 88.4 | 101.4 | 112.8 |
| DPP3 | 271.3 | 348.1 | 184 | 149.1 | 141.4 | 209.9 | 243 | 340.7 |
| DPP3 | 242.3 | 336.6 | 196.2 | 150.1 | 124.4 | 191.9 | 190 | 268.8 |
| DPP3 | 401.2 | 561.6 | 359.1 | 312 | 275.1 | 497.9 | 357.3 | 494.4 |
| DPP4 | 116 | 116.4 | 107 | 94.9 | 94.5 | 93.5 | 99.5 | 109.3 |
| DPP6 | 130.3 | 161 | 85.7 | 77.7 | 78.4 | 83.5 | 112.9 | 161 |
| DPP6 | 76.8 | 82.9 | 87.8 | 86.1 | 73.3 | 87.7 | 82 | 86.4 |
| DPP7 | 1033.9 | 1417.8 | 739.2 | 605.9 | 563.5 | 897.8 | 940 | 1284.4 |
| DPP7 | 3277.1 | 4052.7 | 1081.8 | 768.5 | 813 | 754.5 | 3673 | 1782.7 |
| DPP8 | 358 | 491.8 | 136.2 | 196.2 | 170.7 | 266.6 | 338 | 495.9 |
| DPP8 | 467.8 | 645.6 | 308.2 | 404 | 297 | 583.9 | 437.4 | 732.2 |
| DPP8 | 92.1 | 107.7 | 90.1 | 75.1 | 71.8 | 89.3 | 90.7 | 104.4 |
| DPP9 | 419.9 | 529.8 | 517 | 315.6 | 317.3 | 514.7 | 406.2 | 645.9 |
| DPPA2 | 108.1 | 123.1 | 93.1 | 83.6 | 85.5 | 84.5 | 116.1 | 118.1 |
| DPPA3 | 90.1 | 106.5 | 97.6 | 99.4 | 88.2 | 94.9 | 93 | 99.7 |
| DPPA4 | 92.3 | 103.7 | 91.3 | 84.4 | 83.8 | 84.7 | 98 | 100.9 |
| DPPA5 | 86.4 | 91.5 | 94.5 | 93.5 | 87.4 | 85.8 | 84.8 | 80.8 |
| DPRX | 75.5 | 78.2 | 89.3 | 81.7 | 76.8 | 90.8 | 79.9 | 78.9 |
| DPRXP4 | 99.8 | 105.4 | 101.6 | 80.6 | 82.6 | 91.9 | 99.7 | 110.7 |
| DPT | 111.2 | 130.8 | 93.3 | 90.7 | 92.5 | 94.5 | 98.4 | 121.4 |
| DPY19L2 | 111.1 | 115.7 | 113.1 | 89.1 | 87 | 96.5 | 91.8 | 91.4 |
| DPY19L3 | 175.3 | 223.4 | 121.4 | 103.4 | 101.8 | 102.4 | 133.2 | 185.7 |
| DPY19L4 | 443.2 | 523.9 | 211.5 | 200.9 | 161.1 | 255.6 | 303.3 | 438.3 |
| DPYD | 286.3 | 335.6 | 185.2 | 249.4 | 173.8 | 330.2 | 229.3 | 461.1 |
| DPYS | 92.6 | 97.4 | 90 | 91.7 | 78.1 | 95.5 | 89 | 87.6 |
| DPYSL2 | 4499.7 | 6019.2 | 4934.4 | 4301.3 | 3773.1 | 5338.7 | 3971.6 | 5090.3 |
| DPYSL3 | 103.9 | 116.2 | 106.2 | 99.5 | 88.9 | 106.6 | 117.3 | 147.9 |
| DPYSL4 | 133.5 | 177.2 | 129.1 | 90.7 | 83.5 | 85.5 | 140 | 137.2 |
| DPYSL5 | 90.7 | 117.8 | 98.4 | 91.7 | 86.4 | 86.3 | 95.1 | 117.5 |
| DQX1 | 107.6 | 134.8 | 101.2 | 99.4 | 95.6 | 93.2 | 117.3 | 125.4 |
| DR1 | 1293.1 | 1463.9 | 485.3 | 540.3 | 408.1 | 644.9 | 904.1 | 1878.8 |
| DRAP1 | 1354.5 | 1524.3 | 1699.1 | 1661.2 | 1452.1 | 2869.4 | 1275.6 | 3002.3 |
| DRB1 | 619.3 | 819.3 | 289.7 | 251 | 182.9 | 293.1 | 451.1 | 680.6 |
| DRD1 | 90.1 | 104.9 | 95.4 | 89.6 | 73.7 | 77.1 | 91 | 107.6 |
| DRD1IP | 84.7 | 86.5 | 90.1 | 83.4 | 83.3 | 79.4 | 85.9 | 94.9 |
| DRD2 | 81.3 | 83.2 | 95.2 | 83.3 | 83.6 | 81.8 | 93.1 | 91.9 |
| DRD2 | 97 | 109.1 | 92.7 | 81 | 80.3 | 78.7 | 101.1 | 121.2 |
| DRD2 | 126 | 138.5 | 93.7 | 82.7 | 83.9 | 78.9 | 109.8 | 121 |
| DRD3 | 115.3 | 126.9 | 100.8 | 91.7 | 85.3 | 88.2 | 109.6 | 126.8 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| DRD3 | 100.6 | 104.3 | 101.1 | 89.4 | 85 | 91.8 | 97.2 | 105.6 |
| DRD3 | 97.7 | 105.8 | 96.8 | 87.5 | 86.8 | 90.5 | 96 | 117.8 |
| DRD4 | 84.2 | 87.4 | 101.1 | 119.7 | 124.6 | 129.1 | 99.1 | 103.3 |
| DRD5 | 81 | 95.8 | 106.3 | 90.7 | 92 | 94.9 | 84.9 | 89 |
| DREV1 | 159 | 209.4 | 163.1 | 187.9 | 151.4 | 254.2 | 167.1 | 402.8 |
| DRG1 | 3048.1 | 4264.3 | 2017.5 | 1688 | 1239 | 2348.8 | 2317.8 | 4077 |
| DRG2 | 232.3 | 273.1 | 207.7 | 185.8 | 145.1 | 177 | 198.4 | 383.2 |
| DRP2 | 71 | 74.7 | 82.1 | 78.4 | 72.8 | 76.9 | 74.6 | 81.1 |
| DSC1 | 93.7 | 110 | 95.5 | 96 | 86.9 | 95.1 | 100.3 | 103.8 |
| DSC2 | 252.5 | 320.4 | 174.8 | 301.8 | 249.8 | 358.3 | 205.5 | 270.8 |
| DSC2 | 121 | 144.5 | 102.5 | 111.8 | 106.5 | 122.3 | 112.4 | 109.8 |
| DSC3 | 99.5 | 120.8 | 96.6 | 91 | 82.7 | 78.5 | 110.3 | 104.9 |
| DSCAM | 133.2 | 149.7 | 146.3 | 121.9 | 136.5 | 130.6 | 132.5 | 134.7 |
| DSCAM | 135.3 | 148.2 | 97.5 | 94.5 | 81.4 | 96.1 | 126.2 | 139.2 |
| DSCAM | 183.7 | 167.6 | 96.2 | 94.3 | 88.5 | 97.8 | 123.3 | 166.5 |
| DSCAML1 | 78.5 | 84.2 | 92.5 | 76.9 | 84.5 | 88.2 | 80.7 | 78.1 |
| DSCR1 | 114.1 | 132.6 | 89.1 | 90.9 | 87.2 | 78.7 | 120 | 121.9 |
| DSCR1 | 129.7 | 175.1 | 103.5 | 89.2 | 78 | 81.6 | 123.7 | 132 |
| DSCR1 | 578.7 | 853.1 | 415.6 | 368.5 | 273.9 | 526.3 | 465.3 | 778.9 |
| DSCR10 | 143 | 166.5 | 106.7 | 112.8 | 101.5 | 104.1 | 137.7 | 148.1 |
| DSCR1L1 | 105.5 | 99.2 | 107.1 | 107.8 | 91.8 | 105.3 | 88.1 | 104.6 |
| DSCR1L2 | 154.4 | 198.3 | 115.8 | 114.2 | 112.2 | 123.7 | 138.7 | 171.2 |
| DSCR2 | 2705.2 | 3390.9 | 1338.3 | 1251.3 | 910.7 | 1334.2 | 2143.4 | 3439 |
| DSCR2 | 2289.3 | 3049.2 | 969.9 | 755.1 | 523.6 | 1164.2 | 1700.6 | 2485.2 |
| DSCR3 | 468.9 | 582.8 | 477.8 | 544.8 | 498 | 706.1 | 462.5 | 830.2 |
| DSCR4 | 127.9 | 143.4 | 83.8 | 81.1 | 71.2 | 84 | 112.1 | 143.5 |
| DSCR5 | 694.3 | 918.2 | 514.5 | 395.9 | 285.5 | 357.3 | 537.7 | 608.6 |
| DSCR5 | 2327.5 | 2955.9 | 1611.7 | 1439 | 1083.6 | 1598.8 | 2002.4 | 3744.1 |
| DSCR5 | 128.3 | 142 | 94.5 | 101.7 | 88.5 | 93 | 120.6 | 131.8 |
| DSCR6 | 148.9 | 173.7 | 119.4 | 88.3 | 89.5 | 104.1 | 129.8 | 159.4 |
| DSCR8 | 91.9 | 113.5 | 106.4 | 95.4 | 92.4 | 106.2 | 91.1 | 99.4 |
| DSCR8 | 112.2 | 129.2 | 104.8 | 101.8 | 93.6 | 99.8 | 108.1 | 111.4 |
| DSCR8 | 86.7 | 100.4 | 88.2 | 93 | 85 | 88.6 | 84.5 | 93.1 |
| DSCR9 | 93.7 | 110.1 | 95.9 | 81.6 | 81.5 | 81.5 | 98.7 | 89.5 |
| DSEL | 86.8 | 98.7 | 102.3 | 98 | 100.2 | 118 | 96.9 | 91.8 |
| DSG1 | 103.8 | 117.7 | 87.4 | 85 | 84.6 | 85.8 | 112 | 120.1 |
| DSG2 | 97.2 | 123 | 111 | 159.8 | 143.3 | 143.9 | 97.9 | 115.5 |
| DSG3 | 93.3 | 103.7 | 89.7 | 82.3 | 82.9 | 83.9 | 89.7 | 107.9 |
| DSG4 | 134.4 | 152.8 | 105.9 | 111 | 89.6 | 103 | 131.6 | 177.3 |
| DSP | 100.4 | 119.1 | 94.4 | 83.6 | 90.4 | 89.2 | 99.3 | 109.2 |
| DSPG3 | 80.2 | 76.5 | 88.7 | 82.5 | 75.9 | 87.2 | 77.8 | 87.3 |
| DSPP | 102.1 | 110.7 | 116.6 | 93.6 | 92 | 92.9 | 96.8 | 94.3 |
| DST | 91.2 | 110.7 | 110.3 | 99.5 | 93.7 | 95.9 | 83.8 | 99.5 |
| DST | 85 | 91.4 | 85.5 | 85.7 | 75.1 | 80.4 | 84.1 | 96.7 |
| DST | 90.3 | 101.1 | 114.1 | 93 | 92.1 | 91.9 | 99.7 | 108.3 |
| DST | 84.3 | 86 | 107.5 | 95.9 | 88.8 | 104 | 71.6 | 86.3 |
| DST | 78 | 104.9 | 92.2 | 94.4 | 87.7 | 97.6 | 85.8 | 123.3 |
| DSTN | 773.8 | 969.8 | 332.4 | 484.7 | 265.5 | 425.4 | 794.5 | 1555.1 |
| DSTN | 180 | 221 | 108 | 118.6 | 105.2 | 108 | 181.5 | 189.6 |
| DSTN | 766.7 | 1088.7 | 369.4 | 518 | 347.6 | 548.3 | 768 | 1465.2 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| DSU | 103.4 | 112.3 | 98.5 | 91.4 | 88.4 | 87.9 | 89.2 | 98.6 |
| DTL | 642.4 | 779.2 | 435.1 | 403.9 | 304.5 | 481 | 394.9 | 757.8 |
| DTNA | 268.3 | 293.4 | 208.5 | 160.4 | 128.4 | 166.7 | 200.4 | 242.3 |
| DTNA | 1073.5 | 1455.3 | 733.2 | 400.9 | 254.9 | 455.4 | 878.6 | 1172 |
| DTNA | 265.5 | 335 | 207.2 | 138.8 | 127.1 | 152 | 194.8 | 245.5 |
| DTNB | 134.2 | 165.1 | 120.9 | 116.2 | 108 | 110 | 130.3 | 126.1 |
| DTNBP1 | 89.9 | 101 | 110.1 | 106.3 | 105 | 110.2 | 89.2 | 93.6 |
| DTNBP1 | 213.5 | 241.6 | 165.3 | 141 | 143.2 | 177.4 | 179.5 | 266.6 |
| DTNBP1 | 107.1 | 129.1 | 106.6 | 98.5 | 101.5 | 102.9 | 107.3 | 120.8 |
| DTWD1 | 90.3 | 95.8 | 91 | 76.6 | 96.4 | 96.2 | 91.8 | 102.7 |
| DTWD2 | 723.4 | 855.5 | 373.2 | 627 | 594.6 | 457.9 | 717.6 | 953.6 |
| DTX1 | 101 | 126.4 | 86.3 | 84.2 | 81 | 84.5 | 108.4 | 121 |
| DTX2 | 850.1 | 1274.3 | 575.8 | 612.9 | 624.4 | 605.7 | 703.8 | 627.4 |
| DTX3 | 88.2 | 93.9 | 98.2 | 87.2 | 87.9 | 97.7 | 91.8 | 103.4 |
| DTX3L | 140.2 | 200.7 | 115.7 | 120.1 | 118.1 | 120.6 | 123.1 | 106.4 |
| DTYMK | 84.6 | 104.7 | 96.4 | 102.9 | 85.8 | 92.2 | 81.6 | 105.6 |
| DUB3 | 90 | 104.7 | 93.8 | 86.7 | 80.6 | 96.1 | 88.2 | 99.8 |
| DULLARD | 208.7 | 271.1 | 186.4 | 204.4 | 159.1 | 238.5 | 207 | 400 |
| DUOX1 | 84.3 | 91.2 | 89 | 89.4 | 80.9 | 82.4 | 98.1 | 98.6 |
| DUOX1 | 97.5 | 111.9 | 104.1 | 96.5 | 84.8 | 99.2 | 105.4 | 104.5 |
| DUOX1 | 82.1 | 101.2 | 97.3 | 91.7 | 84.3 | 84.9 | 79.4 | 85.6 |
| DUOX2 | 78.8 | 94.5 | 89.3 | 87.4 | 83.8 | 79.5 | 75 | 100.2 |
| DUPD1 | 79.1 | 95 | 100.4 | 89.8 | 88.8 | 89.8 | 83.2 | 97.9 |
| DUS1L | 352.1 | 361.5 | 246.2 | 194.6 | 169.8 | 283.8 | 244.8 | 453.1 |
| DUS2L | 520.5 | 637.6 | 273.6 | 226.8 | 180.1 | 197.7 | 409 | 388.1 |
| DUS3L | 1057.3 | 1249.2 | 943.2 | 460.7 | 386.2 | 575.6 | 826.6 | 1430.2 |
| DUS4L | 521.8 | 653.3 | 318.5 | 431.5 | 313 | 434.2 | 418.6 | 528.8 |
| DUSP1 | 137.8 | 140.3 | 146.3 | 116.5 | 114.2 | 156.3 | 165.5 | 212.4 |
| DUSP10 | 250 | 307.6 | 160.3 | 158.7 | 161.2 | 189.2 | 189.4 | 248.1 |
| DUSP10 | 90.8 | 102.7 | 84.7 | 76.3 | 79.9 | 84.2 | 90.3 | 105.1 |
| DUSP10 | 362.4 | 408.1 | 243.7 | 499.3 | 324.8 | 707.7 | 303.7 | 548.9 |
| DUSP11 | 145 | 171.9 | 116.2 | 99.9 | 96.3 | 126 | 148.5 | 185.9 |
| DUSP12 | 2462.9 | 3175.5 | 1698 | 1245.2 | 1032.3 | 1597.5 | 2039 | 3883 |
| DUSP13 | 97.8 | 129 | 97.3 | 96.2 | 82.2 | 92.1 | 105.6 | 118.7 |
| DUSP13 | 78.3 | 88.1 | 101.6 | 81.9 | 85.5 | 86.8 | 76.5 | 88.4 |
| DUSP13 | 123.3 | 155.7 | 103.3 | 101.9 | 98.7 | 96.5 | 119.9 | 128.9 |
| DUSP13 | 81.3 | 98.6 | 103.4 | 91.9 | 89.8 | 92.8 | 86.8 | 95.1 |
| DUSP14 | 482.9 | 655.9 | 286.3 | 180.5 | 186.1 | 218.8 | 463.7 | 736 |
| DUSP15 | 120.4 | 124.9 | 91.9 | 88.9 | 98 | 81.6 | 110.1 | 128.1 |
| DUSP15 | 80.7 | 95 | 86.4 | 75.3 | 83.6 | 86.9 | 80.6 | 86.3 |
| DUSP15 | 92.6 | 112.1 | 87.8 | 74 | 83 | 75.4 | 97.2 | 96.9 |
| DUSP16 | 101 | 126.4 | 108.3 | 93.9 | 93.9 | 102.1 | 104.8 | 118.6 |
| DUSP18 | 194.6 | 232.2 | 171.7 | 201.9 | 196.7 | 237.7 | 188 | 255.2 |
| DUSP19 | 2596.8 | 2060.9 | 1752.9 | 2742.2 | 2851.1 | 2299.3 | 2519.1 | 4287 |
| DUSP2 | 171.3 | 230.1 | 150.4 | 110.2 | 95.3 | 127.2 | 148.9 | 206.7 |
| DUSP21 | 83.5 | 92.1 | 102.6 | 91.4 | 92.1 | 92.4 | 90.5 | 87 |
| DUSP22 | 129.8 | 167.4 | 102.8 | 133.9 | 128.4 | 133.9 | 114.4 | 140.9 |
| DUSP22 | 233.5 | 282.5 | 201.1 | 266 | 240 | 288.1 | 201.6 | 264.6 |
| DUSP23 | 5221 | 6606 | 3349.1 | 2502.8 | 1892.9 | 2566.4 | 4498.8 | 4055.4 |
| DUSP26 | 193.4 | 229.1 | 143.3 | 150.9 | 118 | 141.5 | 187.5 | 197.1 |

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|----------|--------|---------|--------|--------|--------|--------|--------|--------|
| DUSP27 | 106.7 | 136.5 | 90.3 | 100.2 | 92.6 | 78 | 109.8 | 130 |
| DUSP27 | 127 | 160.3 | 110.1 | 97.4 | 91.3 | 90.9 | 103.2 | 134 |
| DUSP3 | 2184 | 2783.6 | 1759.9 | 2314.4 | 1918.1 | 2733.2 | 1781.3 | 2933.5 |
| DUSP4 | 85.3 | 87.6 | 91.7 | 82.7 | 81.5 | 88.7 | 79.7 | 88.2 |
| DUSP4 | 95 | 104.6 | 100.6 | 95.5 | 96 | 90.4 | 105.5 | 160.6 |
| DUSP5 | 195.1 | 260.3 | 166.7 | 132.6 | 114.3 | 136.6 | 218.5 | 399.6 |
| DUSP5P | 233.2 | 247.3 | 168.6 | 144.5 | 145 | 146.4 | 152.5 | 193.1 |
| DUSP6 | 208.3 | 269.3 | 117.4 | 131.6 | 90.4 | 109.3 | 211.6 | 442.5 |
| DUSP6 | 128.4 | 141.9 | 98.3 | 100.1 | 99.4 | 107.1 | 116.7 | 128.1 |
| DUSP7 | 110.6 | 135.8 | 116.4 | 126.1 | 123.5 | 94.5 | 103.3 | 120.1 |
| DUSP8 | 111.1 | 121.7 | 116.5 | 97.7 | 99.6 | 91.4 | 102.6 | 150.2 |
| DUSP9 | 146.1 | 183.6 | 99.9 | 87.7 | 87.5 | 104.3 | 127.3 | 161.6 |
| DUT | 321.1 | 482.7 | 170.6 | 178.6 | 159 | 145.8 | 280.5 | 315.5 |
| DUT | 1416.2 | 2121.4 | 423.2 | 372.4 | 355.1 | 471.3 | 1099.2 | 1375.5 |
| DUT | 1294.8 | 1793.5 | 727.5 | 679.1 | 545.9 | 649.7 | 1105.8 | 1338.3 |
| DUX1 | 110.7 | 122.7 | 101.2 | 93 | 90.6 | 102.3 | 112.9 | 116.7 |
| DUX2 | 117.4 | 120.6 | 107.9 | 83.2 | 80.7 | 90.2 | 102 | 116.7 |
| DUX3 | 94.7 | 96.8 | 104 | 106.9 | 95.6 | 99 | 84.1 | 84.5 |
| DUX4 | 88.9 | 101 | 72 | 96.2 | 77.2 | 78.3 | 80.5 | 91.7 |
| DUX4C | 94.6 | 114 | 83.9 | 84.8 | 85.1 | 88.9 | 94.1 | 100.1 |
| DUX5 | 89.3 | 113.2 | 87.6 | 80.7 | 87.7 | 81 | 96.7 | 114.3 |
| DUXA | 83.6 | 95.3 | 84.4 | 81.2 | 87.2 | 81.1 | 79 | 83.6 |
| DUXAP3 | 1862.8 | 1688.9 | 602.1 | 1130.5 | 838.4 | 796.2 | 1727.2 | 2303.8 |
| DVL1 | 96.5 | 105.4 | 125.3 | 139.6 | 136.3 | 128.8 | 88.2 | 99.7 |
| DVL2 | 198.8 | 235.5 | 207 | 216.3 | 213.6 | 268.5 | 175.9 | 278.3 |
| DVL3 | 356.3 | 473 | 325.8 | 291.9 | 267.5 | 462.9 | 345.4 | 495.5 |
| DXS9879E | 2970.7 | 3654.3 | 2113.4 | 1254.5 | 881.5 | 1174.1 | 2814.9 | 3221.4 |
| DYDC1 | 87.1 | 95.6 | 99.5 | 89 | 86.8 | 83.3 | 94.4 | 102.4 |
| DYM | 972 | 1158.4 | 954.9 | 844.4 | 727.2 | 1281.7 | 695.6 | 1483.9 |
| DYNC1H1 | 425.8 | 644.5 | 355.5 | 604.5 | 575.9 | 940.2 | 421 | 509.9 |
| DYNC1I1 | 110.9 | 107.9 | 90.7 | 77.5 | 82.3 | 81 | 102.4 | 115.3 |
| DYNC1I2 | 1379.6 | 2000.4 | 1068.6 | 1148.2 | 992 | 2221.1 | 1167.3 | 1699.3 |
| DYNC1LI1 | 119.7 | 140.4 | 112.8 | 118.4 | 107.5 | 111.7 | 122.7 | 196.1 |
| DYNC1LI2 | 1815 | 2083.2 | 1337.3 | 1714 | 1546.1 | 2004.1 | 1219.5 | 1747.4 |
| DYNC2H1 | 202.8 | 248.9 | 120.6 | 106 | 109 | 153.9 | 169.2 | 228.6 |
| DYNC2LI1 | 72.6 | 84.9 | 91.5 | 82 | 82 | 88.1 | 78.3 | 74.8 |
| DYNC2LI1 | 628.3 | 761.7 | 345.4 | 256.3 | 234.8 | 341.9 | 366.8 | 473.7 |
| DYNC2LI1 | 111.2 | 120.5 | 104.5 | 114.4 | 97.3 | 125.8 | 104.9 | 128.8 |
| DYNLL1 | 8690.8 | 10535.3 | 6540.9 | 3877.6 | 2860.5 | 4702.2 | 6629.2 | 8867 |
| DYNLL2 | 525.4 | 693.6 | 385.4 | 468.5 | 407.8 | 410.4 | 563.1 | 480.8 |
| DYNLRB1 | 2842.4 | 3616.3 | 1690.6 | 971 | 772.8 | 938.5 | 2973.7 | 3691.9 |
| DYNLRB2 | 139.5 | 167.5 | 103.7 | 92.5 | 85 | 96.3 | 135.2 | 163.2 |
| DYNLT1 | 1708.9 | 1787 | 1151.1 | 950.8 | 780 | 1203.5 | 1427.7 | 2056.1 |
| DYNLT3 | 84.4 | 87.2 | 112.4 | 93.8 | 85.1 | 100 | 82.4 | 88.1 |
| DYRK1A | 1098.9 | 983.6 | 347.8 | 510 | 358.5 | 777.2 | 586.8 | 1014.2 |
| DYRK1A | 101.2 | 127.8 | 92 | 85 | 88.9 | 84 | 118.7 | 115 |
| DYRK1A | 976.8 | 863.4 | 490.7 | 598.9 | 425.6 | 926.2 | 543.7 | 945.8 |
| DYRK1A | 127.1 | 152.7 | 96.1 | 91.3 | 74.9 | 93.5 | 121 | 151.8 |
| DYRK1B | 80.2 | 94.9 | 94.9 | 90.3 | 86.6 | 102.6 | 92 | 97.1 |
| DYRK1B | 77.9 | 89.5 | 106.1 | 108.7 | 95.8 | 84.3 | 77.3 | 75.9 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| DYRK2 | 434.3 | 514.1 | 261.7 | 475.9 | 393.8 | 383 | 325.8 | 538.3 |
| DYRK2 | 100.3 | 109.1 | 118.6 | 110.4 | 102 | 105.9 | 97.4 | 107.5 |
| DYRK3 | 101.7 | 113 | 102.6 | 104.5 | 85.9 | 85.3 | 104 | 114.3 |
| DYRK3 | 103.4 | 106.6 | 92.9 | 87.1 | 90.8 | 86.4 | 88.7 | 100.5 |
| DYRK3 | 77.9 | 81.1 | 91.5 | 93.3 | 80.8 | 89.3 | 76.6 | 81.6 |
| DYRK4 | 329 | 438.6 | 231.1 | 188.6 | 175 | 224.1 | 244.5 | 295.6 |
| DYSF | 116.5 | 160.4 | 100.9 | 95.8 | 87 | 92.9 | 131.8 | 154.2 |
| DYSFIP1 | 4418.7 | 5342.8 | 2091 | 384.2 | 341.3 | 421.7 | 4255.8 | 5015 |
| DYX1C1 | 88.2 | 92.5 | 98.3 | 95.4 | 83.1 | 96.2 | 85.9 | 85.5 |
| DYX1C1 | 79.4 | 84 | 103.7 | 89.6 | 78.9 | 87.2 | 86 | 89.2 |
| DZIP1 | 124.8 | 182.5 | 109.1 | 93.6 | 89.9 | 94.7 | 121.9 | 124.1 |
| DZIP1 | 80.5 | 96.8 | 97.3 | 86.7 | 88.5 | 91.9 | 80.3 | 80.3 |
| DZIP1L | 198.6 | 259.9 | 109 | 115.8 | 108.6 | 126.1 | 191.7 | 205.4 |
| DZIP3 | 96.4 | 115.8 | 96.6 | 94.3 | 92.1 | 90.8 | 108.3 | 98.7 |
| E2F1 | 121.9 | 152.2 | 99.4 | 91.6 | 92.1 | 85.4 | 112.8 | 142.2 |
| E2F2 | 1028.7 | 1234.2 | 947.9 | 1225.5 | 961 | 910.6 | 779.9 | 818.8 |
| E2F3 | 1265.7 | 1535.1 | 811 | 936.2 | 650.6 | 808.6 | 1233.9 | 1925.4 |
| E2F4 | 1581.8 | 1863.1 | 1375.4 | 860.4 | 630.8 | 829.4 | 1191.6 | 1843.8 |
| E2F5 | 421.2 | 529.6 | 331 | 207.5 | 159.1 | 250.9 | 261.2 | 382.9 |
| E2F6 | 97.3 | 117.9 | 104.1 | 97.5 | 101.3 | 104.5 | 96.1 | 112.6 |
| E2F6 | 702.2 | 996.5 | 515.6 | 386.3 | 325.9 | 480.7 | 809.1 | 989.7 |
| E2F7 | 323.4 | 415.1 | 273 | 336.1 | 253.7 | 391.2 | 299.8 | 422.1 |
| E2F8 | 199.9 | 242 | 117.7 | 98.6 | 93.2 | 112 | 167.7 | 167.6 |
| E4F1 | 1863.2 | 2108.4 | 1229.9 | 1006.6 | 1069.9 | 983.3 | 1515.7 | 1182.2 |
| EAF1 | 276.8 | 340.1 | 139.6 | 133.1 | 101 | 176.8 | 278.2 | 486.5 |
| EAF2 | 1576.1 | 1820.6 | 831.4 | 1058.4 | 797.9 | 1177.5 | 1084.5 | 1874.1 |
| EBAG9 | 2867.3 | 3688.1 | 1897 | 1587.7 | 1269.8 | 1979.9 | 2629.7 | 4410.1 |
| EBAG9 | 123.7 | 158.2 | 126.5 | 108.3 | 106.1 | 110.6 | 133.7 | 124.3 |
| EBAG9 | 259.3 | 353.4 | 139.1 | 133.2 | 112.4 | 112.7 | 184 | 219 |
| EBF | 118.1 | 128.2 | 93.3 | 100.6 | 91.7 | 92.2 | 132.9 | 134.6 |
| EBF2 | 73.5 | 80.4 | 81.5 | 84.7 | 81.8 | 77.8 | 77.6 | 74.2 |
| EBF3 | 360.4 | 524.2 | 237.3 | 245 | 258.1 | 286.1 | 423.5 | 381.6 |
| EBI2 | 388.4 | 535.6 | 188.1 | 346.6 | 300.3 | 443.9 | 495 | 672.8 |
| EBI3 | 98.2 | 108.4 | 112.9 | 119.6 | 158.4 | 114.1 | 97.9 | 112 |
| EBNA1BP2 | 5672.9 | 6785.4 | 4048.5 | 4043.9 | 3022.1 | 5060.9 | 4412.9 | 5672.8 |
| EBP | 1699 | 2279.2 | 1005.8 | 665.4 | 703.7 | 794.2 | 1683.1 | 1764.3 |
| ECAT1 | 84.8 | 101.5 | 90.8 | 93.1 | 75.2 | 82.9 | 76 | 92.9 |
| ECAT11 | 115.6 | 144.4 | 88.7 | 81.7 | 83.2 | 94 | 125.9 | 138.1 |
| ECD | 453 | 714.8 | 239.8 | 201.8 | 152.4 | 276.8 | 402.1 | 651.7 |
| ECE1 | 112.3 | 116.2 | 104.9 | 99.2 | 87.6 | 110.1 | 96.4 | 109.7 |
| ECE2 | 470.8 | 667.8 | 325.2 | 192.8 | 154.8 | 196.4 | 381 | 454 |
| ECE2 | 104.3 | 108.3 | 93.5 | 89 | 74.1 | 79.8 | 98.8 | 100.9 |
| ECE2 | 85.1 | 87.5 | 95.9 | 95 | 77.1 | 91.1 | 88.9 | 93.8 |
| ECEL1 | 92 | 102.5 | 107.5 | 120.4 | 109.6 | 119.8 | 86.4 | 91 |
| ECGF1 | 2884.9 | 3580 | 2186.6 | 2427.5 | 1879.6 | 2375.4 | 2280 | 3375 |
| ECH1 | 5462.5 | 6936.9 | 5124.1 | 3667.4 | 3360.9 | 4574.4 | 5416.8 | 6693.4 |
| ECHDC1 | 962.6 | 1081 | 327.8 | 412.6 | 339.4 | 519 | 631.3 | 1059 |
| ECHDC2 | 2518.3 | 3222.5 | 1591.6 | 1475 | 1483.8 | 2121.9 | 1858.5 | 2029.5 |
| ECHDC3 | 359.8 | 453.8 | 237.8 | 171.3 | 170.2 | 168.5 | 379.3 | 450.3 |
| ECHS1 | 1955.5 | 2606.8 | 1187.9 | 929.7 | 759.2 | 750.1 | 2008.4 | 1849.6 |

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ECM1 | 231.9 | 286 | 289.3 | 222.6 | 190.9 | 260.4 | 225.3 | 381.6 |
| ECM1 | 446.2 | 494.1 | 158.2 | 117.2 | 96.7 | 112.2 | 442.5 | 579.3 |
| ECM2 | 70.3 | 94.2 | 89.9 | 81.5 | 79.2 | 78.7 | 76.6 | 91 |
| ECOP | 236.6 | 302.4 | 224.4 | 239.5 | 202.9 | 203.2 | 189.6 | 275.8 |
| ECRG4 | 83.4 | 97 | 80.5 | 85.4 | 87.5 | 83.1 | 83.1 | 94.2 |
| ECSIT | 187.3 | 231.2 | 143.1 | 127.7 | 114.5 | 133 | 164.7 | 229.6 |
| EDA | 162.7 | 175.6 | 94.4 | 98 | 83.2 | 85.2 | 171.8 | 169.5 |
| EDA | 99.7 | 102.6 | 98.5 | 96.8 | 92.5 | 99.7 | 103.6 | 108.4 |
| EDA | 105.2 | 119.6 | 98.6 | 96.7 | 88.6 | 87.3 | 99.3 | 110.4 |
| EDA | 84.9 | 96.3 | 98.3 | 91.8 | 83.2 | 103.6 | 97 | 95.8 |
| EDA | 88.7 | 87.2 | 91.3 | 84.3 | 87.2 | 90.2 | 85.4 | 83.2 |
| EDA2R | 81.2 | 97.6 | 90.6 | 85.3 | 80.5 | 84.8 | 90 | 88.3 |
| EDAR | 78.5 | 97.8 | 102.8 | 97.3 | 74.2 | 91 | 91.2 | 98.9 |
| EDARADD | 103.2 | 110.4 | 92.7 | 86.7 | 90.9 | 87.2 | 98.7 | 102.3 |
| EDARADD | 114.3 | 152.3 | 126.7 | 119.3 | 122 | 125.1 | 120.5 | 117.6 |
| EDARADD | 99.8 | 109.5 | 84.9 | 74.3 | 75.8 | 73.9 | 87.3 | 97.4 |
| EDD1 | 657.1 | 954.2 | 305.3 | 486.6 | 356.3 | 562 | 726.9 | 1119.2 |
| EDEM1 | 865.3 | 1289.2 | 341.6 | 402.4 | 409.9 | 588 | 929.5 | 1214.9 |
| EDEM3 | 621.7 | 761.1 | 323.1 | 345.4 | 255.6 | 394.5 | 559.6 | 1232.1 |
| EDF1 | 3146.3 | 3764.6 | 812.4 | 623 | 477.9 | 772.4 | 2825.2 | 4476.4 |
| EDF1 | 11003.8 | 13192.2 | 8191.9 | 7482.3 | 5690.4 | 7385.8 | 10735 | 14453.6 |
| EDG1 | 135.4 | 189.9 | 90.2 | 93 | 89.3 | 96.5 | 126.8 | 163.5 |
| EDG2 | 464.6 | 651.2 | 378.2 | 214.5 | 168.1 | 241.6 | 477.2 | 655.3 |
| EDG2 | 115.1 | 134.5 | 98.3 | 78.7 | 80.9 | 85.6 | 110.3 | 126.5 |
| EDG3 | 281.8 | 368.1 | 197.8 | 129.8 | 112.3 | 140.8 | 298.6 | 471.3 |
| EDG4 | 685.1 | 591.8 | 422.3 | 455.2 | 468.9 | 558.1 | 502.6 | 756.7 |
| EDG5 | 87.3 | 93.8 | 100.9 | 91.2 | 98.5 | 91.8 | 86.1 | 86.1 |
| EDG6 | 87.2 | 91.9 | 89.9 | 85.8 | 86.8 | 84.2 | 89 | 97.6 |
| EDG7 | 96.3 | 90.8 | 106.9 | 87.2 | 84 | 95.9 | 85.7 | 97.9 |
| EDG8 | 211.3 | 233.3 | 183.3 | 190.9 | 176 | 201.4 | 184.2 | 201.5 |
| EDIL3 | 101.9 | 99.8 | 92.4 | 98.3 | 86.5 | 92.4 | 98 | 107.5 |
| EDN1 | 126.1 | 147 | 101.9 | 93.4 | 95.1 | 100.2 | 159.4 | 175.6 |
| EDN2 | 105.5 | 115 | 101 | 96.9 | 91.2 | 83.4 | 85.6 | 107.7 |
| EDN3 | 102.3 | 110.7 | 98.1 | 91.2 | 85.3 | 86.2 | 104.1 | 109.3 |
| EDN3 | 84.3 | 99.2 | 85.7 | 88.9 | 77.5 | 82.3 | 82.3 | 92.8 |
| EDNRA | 90.9 | 94.3 | 82.5 | 88.4 | 82.5 | 94 | 95.6 | 98.9 |
| EDNRB | 168.7 | 192.5 | 116.4 | 106.5 | 106.7 | 110.3 | 181.6 | 244.5 |
| EDNRB | 82.6 | 80 | 93.1 | 84.8 | 75.6 | 82.5 | 79.2 | 86.8 |
| EDNRB | 71.4 | 84.3 | 93.4 | 83.4 | 78.3 | 83.4 | 71 | 77.5 |
| EEA1 | 121.7 | 146.7 | 126.4 | 119.5 | 124.7 | 187.1 | 108.6 | 129.7 |
| EED | 110.1 | 106.6 | 107.1 | 105 | 96.4 | 108.9 | 98.7 | 91 |
| EED | 416.7 | 555.8 | 227.9 | 197.1 | 142.1 | 219.9 | 376.3 | 813.7 |
| EED | 219 | 272.3 | 125.6 | 109.7 | 93.6 | 106 | 206.3 | 258 |
| EEF1A1 | 32574.7 | 34364.2 | 58560.2 | 56366.3 | 55294.1 | 51504 | 31077 | 32683 |
| EEF1A1 | 30986.7 | 30960.6 | 53310.5 | 46243.3 | 40456 | 53855.6 | 31701.3 | 30467.3 |
| EEF1A2 | 2999.4 | 3795.8 | 2248.4 | 464.4 | 310.6 | 373.2 | 2626.2 | 3828.4 |
| EEF1B2 | 1643.8 | 2128.7 | 793 | 545.7 | 410.4 | 718.8 | 1191.4 | 1401.1 |
| EEF1B2 | 24210 | 26978.9 | 13818.7 | 14394.3 | 11107 | 13803.1 | 27053 | 27658.5 |
| EEF1B2 | 1374.8 | 1719.3 | 872.5 | 761.6 | 612.1 | 1052.8 | 1095 | 1213.4 |
| EEF1B2 | 20799 | 22732.3 | 17758.5 | 15665 | 13731 | 22037.3 | 16403.3 | 17598.7 |

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|--------|---------|---------|--------|---------|---------|---------|---------|---------|
| EEF1D | 6781.3 | 9218.5 | 3023.2 | 2040.7 | 1928 | 2770.7 | 7031 | 7924.8 |
| EEF1D | 78.8 | 97.4 | 84.2 | 81.1 | 79.7 | 86.8 | 91.3 | 96.4 |
| EEF1E1 | 84 | 108.6 | 93.6 | 80.9 | 74.4 | 82 | 84.5 | 104.3 |
| EEF1G | 21166.1 | 26586 | 14747 | 12883.9 | 11757.1 | 17245.4 | 20393.1 | 24828.6 |
| EEF2 | 12949.3 | 17439.1 | 9720.4 | 9744.5 | 7009.7 | 10966.5 | 12458.7 | 13576.8 |
| EEF2K | 1028.5 | 1467.5 | 738.8 | 920.3 | 721.8 | 886.3 | 695.2 | 642.6 |
| EEFSEC | 122.6 | 130 | 103.5 | 94.8 | 81.7 | 105.6 | 112.1 | 139.9 |
| EFCAB1 | 82.8 | 98.9 | 101.8 | 91.9 | 87.2 | 92.1 | 90.6 | 97.3 |
| EFCAB2 | 84.4 | 115.7 | 96.7 | 80.5 | 76.8 | 75.3 | 93.1 | 141.1 |
| EFCAB3 | 96.5 | 121.1 | 94.5 | 103.7 | 95.6 | 84.3 | 102.9 | 113 |
| EFCBP1 | 91 | 115.1 | 96.5 | 87.3 | 84.3 | 87.3 | 92.8 | 88.3 |
| EFCBP2 | 188.2 | 193.2 | 172 | 110.4 | 112 | 113.3 | 171.6 | 194.4 |
| EFEMP1 | 88.9 | 111.2 | 95.4 | 96.7 | 86 | 90.2 | 115.6 | 162.6 |
| EFEMP1 | 97.5 | 102.7 | 100.5 | 95.1 | 95.5 | 91.8 | 111.3 | 118.3 |
| EFEMP1 | 89.6 | 94.6 | 91.8 | 93.6 | 81.1 | 92.9 | 197 | 261.7 |
| EFEMP2 | 704.1 | 736.1 | 473.6 | 333.7 | 306.5 | 360.7 | 591 | 479.4 |
| EFHA1 | 1724.2 | 1917.6 | 620.8 | 866.7 | 521.5 | 1119.8 | 1612.9 | 2980.4 |
| EFHA2 | 77.7 | 84 | 90.8 | 77.7 | 79.8 | 80.5 | 89.7 | 94.8 |
| EFHB | 82.5 | 95.1 | 95.3 | 92.8 | 91.5 | 89.2 | 84.6 | 96.6 |
| EFHC1 | 144.2 | 154.3 | 108.8 | 123.2 | 108.6 | 138.6 | 119.7 | 173.7 |
| EFHC2 | 93 | 102.6 | 93.8 | 81.5 | 73.4 | 86.7 | 88.7 | 92.3 |
| EFHD1 | 359.4 | 401.6 | 211.1 | 277.9 | 147.7 | 253.9 | 221.2 | 278.3 |
| EFHD2 | 3311.6 | 4347.2 | 3061.1 | 2520.8 | 1799.6 | 2900.6 | 2493.5 | 3548.1 |
| EFNA1 | 88 | 101.9 | 89.8 | 86.2 | 89.7 | 87 | 93.4 | 99.6 |
| EFNA1 | 93.8 | 103 | 98.2 | 88 | 96.4 | 89.3 | 96.4 | 102.6 |
| EFNA2 | 81.3 | 92.4 | 81.3 | 85.6 | 81.1 | 76.9 | 77.9 | 80.7 |
| EFNA3 | 94.6 | 99.6 | 87.1 | 86.7 | 85.8 | 82.6 | 98.5 | 106.3 |
| EFNA4 | 160.7 | 188.1 | 110.4 | 95.6 | 92.4 | 100.1 | 143.7 | 193.6 |
| EFNA4 | 300.9 | 396.3 | 311.8 | 251.3 | 236 | 260.7 | 334.1 | 374.6 |
| EFNA5 | 80.1 | 85.5 | 94.9 | 92.2 | 78.7 | 87.8 | 90.6 | 91.7 |
| EFNB1 | 127.3 | 147.6 | 110.5 | 106.4 | 100.1 | 114 | 132.6 | 135.2 |
| EFNB2 | 139.8 | 151.7 | 115.6 | 107.8 | 100.6 | 105.2 | 146.6 | 171.8 |
| EFNB3 | 68.2 | 88.3 | 89.2 | 90.4 | 80.8 | 79.4 | 79.2 | 84.1 |
| EFS | 124.2 | 125.2 | 98.7 | 91.6 | 93.9 | 95.6 | 108.1 | 119.5 |
| EFS | 100.9 | 104.2 | 95 | 81.5 | 78.5 | 96.6 | 89.1 | 114 |
| EFTUD1 | 228.3 | 321.8 | 197.6 | 194.2 | 167.9 | 289.5 | 191.1 | 281.5 |
| EFTUD1 | 248.6 | 372.5 | 222.2 | 258.6 | 231.5 | 358.5 | 197.1 | 287.8 |
| EFTUD1 | 111.1 | 122 | 88.1 | 100.1 | 75.3 | 89.4 | 98.6 | 101.6 |
| EFTUD2 | 1825.3 | 2513.5 | 1855.4 | 1790.8 | 1309.8 | 2244.7 | 1466.3 | 2572.9 |
| EGF | 117 | 114.6 | 97.1 | 86.6 | 95.9 | 88.8 | 106.2 | 123.9 |
| EGFL5 | 74.3 | 88.7 | 92.9 | 92.3 | 87.1 | 86.3 | 82.3 | 86.4 |
| EGFL6 | 78.4 | 99.8 | 97.1 | 93.7 | 91.5 | 94.9 | 77.7 | 82.8 |
| EGFL7 | 174.7 | 213.9 | 127.2 | 119.6 | 112.6 | 117.7 | 162.3 | 247.6 |
| EGFL7 | 139.4 | 182.6 | 108.3 | 99.2 | 84.2 | 99.6 | 148.1 | 159.3 |
| EGFL8 | 99.3 | 111.6 | 79.1 | 81.8 | 71.2 | 67.6 | 103.3 | 101 |
| EGFL9 | 84.7 | 101.9 | 91.5 | 82.4 | 86.5 | 90.3 | 100.3 | 98.2 |
| EGFL9 | 108.6 | 140.1 | 109.3 | 103.3 | 95.9 | 90.9 | 107.1 | 115.8 |
| EGFL9 | 186 | 216.5 | 114.8 | 88.3 | 89.1 | 98.5 | 183.2 | 193 |
| EGFLAM | 224.1 | 286.5 | 157.9 | 192.8 | 174.1 | 192.6 | 220.3 | 305.7 |
| EGFR | 101 | 99.5 | 95.8 | 94 | 80.4 | 92.7 | 91.7 | 96 |

| | | | | | | | | |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| EGFR | 78.3 | 83.6 | 94.3 | 91 | 88.7 | 90.6 | 83.6 | 92.1 |
| EGFR | 71.3 | 77 | 88.1 | 88.5 | 77.7 | 76.6 | 83.2 | 86.9 |
| EGFR | 113.1 | 131.3 | 98.7 | 87.9 | 92.4 | 89.8 | 96.3 | 119 |
| EGLN1 | 381.4 | 516.8 | 214.6 | 199.3 | 188.9 | 253.1 | 298.6 | 501.1 |
| EGLN2 | 103.4 | 104.7 | 80.9 | 88.1 | 88.3 | 83.6 | 108.6 | 110.7 |
| EGLN2 | 3501.9 | 4311.4 | 2137.4 | 1912.2 | 1708 | 1855.9 | 3317.2 | 3094.2 |
| EGLN3 | 87.2 | 99.7 | 86.8 | 89.4 | 86.8 | 96.2 | 92.5 | 102.1 |
| EGR1 | 237.5 | 285.3 | 212.6 | 151.1 | 124.4 | 159.2 | 222.7 | 354.2 |
| EGR2 | 111.4 | 110.7 | 111.3 | 107 | 98.3 | 111.5 | 104.6 | 115.4 |
| EGR3 | 128.4 | 146.5 | 98.3 | 96.1 | 93.9 | 96.1 | 122 | 135.4 |
| EGR3 | 140.9 | 175 | 119 | 117.4 | 104.7 | 103.8 | 152.7 | 188.7 |
| EGR4 | 104 | 109.3 | 78.8 | 84.6 | 82.3 | 88.8 | 104.8 | 111.8 |
| EHBP1 | 1013.8 | 1324.9 | 691.6 | 758.2 | 568.9 | 908.3 | 843.4 | 1411.8 |
| EHD1 | 1521.8 | 2011.7 | 1089.7 | 911.3 | 707.8 | 732.3 | 1301.3 | 1294.7 |
| EHD2 | 108.7 | 129.1 | 95.3 | 94.4 | 90.9 | 99.5 | 114.7 | 134.2 |
| EHD3 | 95 | 107.8 | 101.1 | 84.1 | 79.5 | 78.7 | 93.7 | 117.8 |
| EHD4 | 438.5 | 516.1 | 499.1 | 687.8 | 512.9 | 734 | 297.4 | 420.9 |
| EHF | 80.7 | 103.9 | 93.5 | 87.2 | 82.7 | 88.3 | 84.8 | 89.2 |
| EHHADH | 261.8 | 418.1 | 261.5 | 334.8 | 251.5 | 511.8 | 246.9 | 291.3 |
| EHMT1 | 116.8 | 144.2 | 126.8 | 113.4 | 111.7 | 119.5 | 108 | 129.3 |
| EHMT2 | 191.6 | 246.5 | 172.8 | 160 | 168.3 | 152.9 | 179.1 | 255.2 |
| EHMT2 | 103.4 | 121.2 | 84 | 85.2 | 72.1 | 89.7 | 97.5 | 122.9 |
| EI24 | 5110.4 | 6370.7 | 2680.8 | 1727.3 | 1282.9 | 1763.9 | 4404.2 | 5202.8 |
| EI24 | 1585.8 | 2162.9 | 631.6 | 400 | 274.1 | 416.7 | 1354.6 | 2771.8 |
| EID2B | 3183.4 | 2774.8 | 1237.1 | 1688.2 | 1392.3 | 1277.3 | 2695.3 | 4741.3 |
| EID3 | 94.6 | 98.6 | 84.6 | 86.7 | 80.7 | 80.4 | 101.3 | 135.7 |
| EIF1 | 3640.3 | 4768 | 2199.5 | 2035.2 | 1557.5 | 2690.4 | 3655.4 | 6104.7 |
| EIF1AX | 112.7 | 120.8 | 105.2 | 95.5 | 100.2 | 98.9 | 111.8 | 113.7 |
| EIF1AX | 1851.3 | 2194 | 863.6 | 923.7 | 549.2 | 755.3 | 2118.4 | 3799.5 |
| EIF1AX | 172.6 | 203.2 | 143.7 | 151 | 127.5 | 174.5 | 163.8 | 199.9 |
| EIF1AY | 370 | 459.3 | 219.5 | 278.3 | 207.3 | 296.8 | 347.6 | 542.1 |
| EIF1B | 1470.3 | 1950.3 | 478.6 | 398.7 | 357.2 | 449.3 | 2032.9 | 3085.3 |
| EIF2A | 3490.3 | 4596.3 | 2175.8 | 2213.2 | 1686.9 | 3073.9 | 3227.7 | 5301.1 |
| EIF2AK1 | 5268.8 | 6982.8 | 2705.8 | 3231.3 | 2363.4 | 3384.3 | 4771.9 | 5926.7 |
| EIF2AK2 | 1247 | 1992.9 | 674.5 | 772.6 | 758.2 | 784.7 | 1383.9 | 1579.9 |
| EIF2AK4 | 406.6 | 497.9 | 227.8 | 337.5 | 328.6 | 354.1 | 360 | 366.9 |
| EIF2B1 | 1147.8 | 1259.5 | 809.2 | 761.9 | 629 | 1059.2 | 802.4 | 1060.2 |
| EIF2B2 | 1358 | 1796.7 | 1043 | 948.7 | 700.7 | 1116.7 | 1031.9 | 1345.7 |
| EIF2B4 | 2528.7 | 2966.9 | 2175.5 | 1813.9 | 1560 | 2391.5 | 2038.8 | 2520.7 |
| EIF2B4 | 2037.2 | 2643.6 | 1494.1 | 1312.7 | 1162.6 | 1806 | 1678.4 | 2218 |
| EIF2B4 | 96 | 106.8 | 108.2 | 103.2 | 95.8 | 97.4 | 93.2 | 101 |
| EIF2B5 | 1411.2 | 1950.1 | 623.9 | 545.2 | 495.6 | 678.3 | 1196.5 | 1180.1 |
| EIF2C1 | 250.2 | 352.9 | 219.3 | 293.9 | 221 | 325.2 | 248.8 | 326 |
| EIF2C2 | 757.8 | 1630 | 563.8 | 1184.9 | 1098 | 712.2 | 1095.6 | 986 |
| EIF2C3 | 141.8 | 198.2 | 115.2 | 119 | 107.6 | 129.8 | 141.5 | 181 |
| EIF2C3 | 118 | 140.7 | 120.5 | 133 | 118 | 129 | 112.9 | 130.6 |
| EIF2C4 | 182.2 | 231.7 | 125.8 | 129 | 115.9 | 129.7 | 168.5 | 199.7 |
| EIF2S1 | 440.2 | 605.7 | 219.5 | 192.1 | 176.9 | 186.2 | 365.5 | 542.2 |
| EIF2S2 | 384.8 | 485.9 | 332 | 385.5 | 272.6 | 482.7 | 294.6 | 554 |
| EIF2S3 | 5371.7 | 6274.7 | 4700 | 4989.6 | 4167.1 | 5776.2 | 4396.5 | 7129.4 |

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|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| EIF3S1 | 1055 | 1396.2 | 546.2 | 480.6 | 372.5 | 977.3 | 844.2 | 1676 |
| EIF3S10 | 1402.8 | 1657.2 | 498.3 | 636.8 | 542 | 975 | 1074.6 | 1522.1 |
| EIF3S12 | 7880 | 9322.3 | 3556.2 | 3133.7 | 2352.3 | 3606.3 | 7573.2 | 11009 |
| EIF3S2 | 3556.8 | 4619 | 2134.5 | 2278.4 | 1792.6 | 2676.5 | 2966.4 | 4152.9 |
| EIF3S3 | 8151 | 10410 | 5614.1 | 4460.1 | 3718 | 5653.4 | 7304.1 | 9768.1 |
| EIF3S4 | 3640.2 | 4610.7 | 2432.6 | 1463.3 | 1290.9 | 1873.1 | 3948.1 | 5113.1 |
| EIF3S5 | 7496 | 9062.3 | 5134.8 | 4280.3 | 3109.7 | 4558.2 | 6803.4 | 8890.2 |
| EIF3S6 | 30314.1 | 31749.7 | 20056.5 | 18102.8 | 13923 | 16891.7 | 27503 | 30027.2 |
| EIF3S6IP | 8205.8 | 11264.5 | 5812.3 | 4772.9 | 3911.7 | 6082.8 | 7095.3 | 10370.9 |
| EIF3S7 | 5973.5 | 7657.5 | 4887.7 | 4872.6 | 3820.3 | 6575.4 | 4894.9 | 10290.7 |
| EIF3S8 | 177.9 | 210 | 106.8 | 102.9 | 93.5 | 115.7 | 162 | 184.7 |
| EIF3S9 | 9427.2 | 11985 | 7846.3 | 8801.7 | 7549 | 9265.8 | 7263.1 | 7281.1 |
| EIF3S9 | 441.3 | 598.3 | 571.9 | 468 | 392.3 | 639.3 | 350.4 | 520.1 |
| EIF3S9 | 1694.1 | 2320.5 | 2146.6 | 2195.4 | 1872.8 | 3173.9 | 1460.9 | 2619.1 |
| EIF4A1 | 20690.7 | 25346.7 | 17993.7 | 16305.2 | 11766.1 | 19510.9 | 19220.3 | 26974.7 |
| EIF4A2 | 7004.1 | 7813.8 | 4286.6 | 5005.9 | 3727.7 | 7135.6 | 4709.5 | 6369.5 |
| EIF4B | 3979.6 | 5962.5 | 4129.7 | 4072.4 | 3017 | 6721.2 | 3727.4 | 5030.9 |
| EIF4E | 252.6 | 283.5 | 121.1 | 125.4 | 106.6 | 129.6 | 234.4 | 545.7 |
| EIF4E2 | 1718.5 | 2401.5 | 758.2 | 545.9 | 432.1 | 628.4 | 1407.2 | 1823.1 |
| EIF4E3 | 174.9 | 247.8 | 148 | 167 | 137.8 | 193.1 | 174.1 | 258.6 |
| EIF4EBP1 | 355.1 | 446 | 238.4 | 164.4 | 135.9 | 173.4 | 348.4 | 497.9 |
| EIF4EBP2 | 931 | 1365.1 | 784.5 | 566.4 | 475.3 | 807.3 | 707 | 1043.3 |
| EIF4EBP3 | 98.9 | 97.8 | 97.7 | 84.6 | 95.3 | 87.3 | 93.1 | 98.4 |
| EIF4ENIF1 | 468.7 | 560.7 | 413.3 | 489.2 | 398.6 | 576.6 | 432.8 | 803.9 |
| EIF4G1 | 867.2 | 1077.6 | 896.3 | 1036.2 | 870.6 | 1153.5 | 770.6 | 987.2 |
| EIF4G1 | 83.4 | 91.5 | 82 | 77.2 | 77.9 | 86.6 | 76.1 | 92.3 |
| EIF4G1 | 1616.6 | 2197 | 2945.4 | 3224.3 | 2588.5 | 3412.9 | 1524.5 | 2093.6 |
| EIF4G1 | 102.5 | 116.6 | 97 | 93.3 | 87.3 | 87.2 | 106.9 | 109.7 |
| EIF4G2 | 7863.8 | 9167.7 | 3816.5 | 3046 | 2236.7 | 3077.6 | 6799.1 | 12003 |
| EIF4G2 | 1383.6 | 1848.1 | 600.6 | 430.1 | 320.4 | 561 | 837.6 | 1188.8 |
| EIF4G2 | 7012.2 | 8615.1 | 6295.4 | 4776.5 | 3347.6 | 8335.6 | 5918.7 | 9952.9 |
| EIF4G3 | 944.2 | 1505.2 | 825.5 | 1133.4 | 852.9 | 1611.9 | 964.1 | 977 |
| EIF4H | 3943.7 | 5281.3 | 2721.5 | 2302.4 | 1896.5 | 2914 | 3188.4 | 5151.1 |
| EIF5 | 140.1 | 168.1 | 92.5 | 96.2 | 100.8 | 109.1 | 138 | 183 |
| EIF5 | 2426.7 | 3349.7 | 1584.6 | 1512.6 | 1125.3 | 1227.7 | 3017.4 | 3731.5 |
| EIF5 | 110 | 126 | 103.4 | 89.8 | 89.9 | 91.3 | 91 | 108.4 |
| EIF5A | 1939.7 | 2290.5 | 1178.7 | 906.1 | 661.4 | 570.1 | 1741.5 | 2186.9 |
| EIF5A2 | 102.2 | 110.1 | 90.9 | 86.5 | 92.3 | 84.3 | 114.2 | 118.8 |
| EIF5B | 549.1 | 857.8 | 453 | 568.9 | 522 | 1072.9 | 394.9 | 722.5 |
| ELA1 | 93.1 | 101.1 | 88.9 | 128.3 | 118 | 128.8 | 102.4 | 104.3 |
| ELA2 | 32115.9 | 31639.8 | 27789.5 | 27450.4 | 24268.3 | 23376.7 | 31004.4 | 30970.5 |
| ELA2A | 98.3 | 107.4 | 91.8 | 79 | 79.3 | 92.5 | 100.1 | 99.7 |
| ELA2B | 101.9 | 139.1 | 109.8 | 89.8 | 97.5 | 94.8 | 120.8 | 138.5 |
| ELA3A | 80.8 | 86.9 | 87.3 | 83.1 | 77.2 | 88.6 | 86.6 | 87.7 |
| ELA3B | 90.9 | 94.3 | 100.8 | 87.7 | 89.9 | 91.7 | 90.6 | 100 |
| ELAC1 | 198.4 | 254.8 | 203.3 | 197.5 | 164.7 | 196.1 | 159.8 | 241.7 |
| ELAC2 | 225.3 | 252.3 | 240.9 | 272.9 | 235.8 | 326.5 | 226.7 | 306.9 |
| ELAVL1 | 200.1 | 253.9 | 163 | 150.8 | 153.7 | 168.9 | 194.4 | 231.3 |
| ELAVL2 | 107.2 | 133.5 | 105.6 | 101.4 | 89.8 | 96.9 | 100.2 | 119.4 |
| ELAVL3 | 100.7 | 109.7 | 93.7 | 94.4 | 86.4 | 91.3 | 88.1 | 111.3 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| ELAVL3 | 97.2 | 122.8 | 99.4 | 92.3 | 95.2 | 99.9 | 96.8 | 104.5 |
| ELAVL4 | 97.1 | 108.6 | 102.8 | 83.8 | 81.2 | 94.6 | 93 | 101.3 |
| ELF1 | 5563.1 | 7124.7 | 2751.3 | 3204.8 | 2198.8 | 3635.5 | 4849.8 | 5477.4 |
| ELF2 | 207.9 | 293.7 | 131.9 | 135.3 | 135.2 | 123.5 | 207.7 | 310.2 |
| ELF2 | 1020.2 | 1377.1 | 743.4 | 748.2 | 675 | 1212.1 | 844.3 | 1451.5 |
| ELF2 | 282.1 | 361.8 | 170.9 | 169.3 | 149.2 | 129.2 | 239.1 | 290.2 |
| ELF3 | 107.9 | 137.4 | 94.5 | 95.1 | 91.8 | 85.2 | 97.7 | 109.6 |
| ELF4 | 885.2 | 1040.6 | 774 | 666.8 | 552.2 | 660.6 | 858 | 1095.6 |
| ELF5 | 70.1 | 88 | 82.5 | 86 | 76.8 | 75.6 | 71.5 | 82.3 |
| ELF5 | 81 | 93.1 | 95.2 | 84.7 | 89.5 | 85 | 86.4 | 94.7 |
| ELK1 | 180.6 | 180.4 | 127.9 | 154.7 | 153.6 | 172.4 | 168.9 | 222.1 |
| ELK3 | 113.6 | 128.9 | 98.8 | 103.6 | 89.4 | 102.6 | 103.8 | 113.8 |
| ELK4 | 185 | 233.7 | 130.6 | 102.2 | 105.4 | 112.7 | 186.4 | 247 |
| ELK4 | 109.2 | 121.5 | 92 | 94 | 83.1 | 84.4 | 99.6 | 112.4 |
| ELK4 | 133.2 | 183.3 | 114.1 | 105.4 | 98.1 | 96.8 | 138.9 | 167.8 |
| ELL | 320.3 | 442.9 | 317.7 | 257.1 | 215.8 | 255.3 | 326.6 | 506.3 |
| ELL3 | 119.4 | 123.4 | 112.1 | 106 | 94.2 | 108 | 106.8 | 122 |
| ELLS1 | 373.3 | 450.1 | 229.4 | 584.4 | 427.5 | 583.4 | 335.7 | 427.3 |
| ELMO1 | 105 | 122.3 | 113.3 | 86.3 | 81.7 | 90.7 | 105.1 | 124.5 |
| ELMO1 | 255.3 | 343.9 | 377 | 580.7 | 491.9 | 870.9 | 280.8 | 543.4 |
| ELMO1 | 101.6 | 95.5 | 92 | 86.6 | 80.6 | 88.8 | 100.8 | 117.4 |
| ELMO1 | 141.5 | 154.5 | 115.9 | 115 | 115.1 | 107.2 | 115.6 | 175.1 |
| ELMO2 | 120.6 | 148.1 | 99.5 | 118.3 | 109.6 | 126.3 | 113.5 | 151.4 |
| ELMO2 | 392.6 | 494.3 | 404.8 | 527 | 484.2 | 713.1 | 335.5 | 587.2 |
| ELMO2 | 84.4 | 97.3 | 95.1 | 93.9 | 90.8 | 93 | 83.8 | 96.4 |
| ELMO3 | 130.2 | 146.5 | 135.4 | 97 | 104.3 | 135.2 | 113.1 | 154.3 |
| ELMOD1 | 85.2 | 93.7 | 104.1 | 97.9 | 88.3 | 102 | 95.1 | 98.6 |
| ELMOD2 | 251.9 | 326.6 | 167.3 | 120.2 | 107.1 | 141.1 | 221.4 | 325.4 |
| ELN | 121 | 138.4 | 85.2 | 80.9 | 74.6 | 81.7 | 111.1 | 135.6 |
| ELN | 129.9 | 154.2 | 96.2 | 101.3 | 79.3 | 88.7 | 132.1 | 135.5 |
| ELOF1 | 374.1 | 496.9 | 158.7 | 121.4 | 118.4 | 139.1 | 356.4 | 420.8 |
| ELOVL1 | 521.7 | 636.4 | 276.6 | 228.3 | 171.9 | 230.3 | 514.7 | 826.5 |
| ELOVL2 | 110.5 | 129.3 | 107.2 | 88.2 | 92.5 | 105.3 | 117.5 | 114.2 |
| ELOVL3 | 130 | 135.2 | 118.1 | 104 | 98.3 | 103.4 | 115.4 | 122 |
| ELOVL4 | 140 | 141.7 | 113 | 121.5 | 94.8 | 116.6 | 137.4 | 164.8 |
| ELOVL5 | 2349.9 | 2732 | 1386.3 | 1579.8 | 1045.8 | 1880.6 | 2258.8 | 4350.4 |
| ELOVL6 | 122 | 133.7 | 111 | 99.2 | 83 | 92.7 | 113.7 | 104.9 |
| ELOVL7 | 83.2 | 88.6 | 90.2 | 83 | 85.6 | 90.9 | 81.6 | 91.5 |
| ELP3 | 1395.5 | 1944.4 | 953.6 | 880.1 | 730 | 1247.1 | 1235 | 1462.8 |
| ELP4 | 468.7 | 582.1 | 297.8 | 259.4 | 223.8 | 318.7 | 324.9 | 484 |
| ELSPBP1 | 84.6 | 84.3 | 85.3 | 88.8 | 81.1 | 93.6 | 71.5 | 84.2 |
| EMCN | 116.9 | 131.4 | 101.8 | 89.7 | 87.3 | 91.9 | 118.1 | 124.6 |
| EMD | 83.5 | 94.3 | 100.4 | 89.2 | 94.9 | 91.9 | 96.7 | 108.1 |
| EME1 | 294.7 | 389.5 | 166.1 | 150.3 | 154 | 209.7 | 233.6 | 278.8 |
| EME2 | 108.3 | 137.6 | 100.1 | 99 | 91.4 | 101.5 | 114.5 | 133.4 |
| EMG1 | 1677.2 | 2189.3 | 1149.8 | 893.3 | 629.6 | 1345.6 | 1524.6 | 1917.5 |
| EMID1 | 87 | 90.7 | 107.6 | 104.9 | 98.9 | 110.5 | 92.2 | 97.5 |
| EMILIN1 | 85 | 84.5 | 90.5 | 88.2 | 92 | 90.5 | 78 | 84.4 |
| EMILIN2 | 2783 | 3752.1 | 1742.6 | 1568.9 | 1287.1 | 1406.8 | 2531.4 | 2171.2 |
| EMILIN3 | 103.7 | 120.7 | 93.2 | 99.3 | 83 | 97.6 | 107.9 | 110 |

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|---------|---------|---------|---------|--------|---------|---------|---------|---------|
| EML1 | 207.7 | 316.6 | 186 | 123.9 | 106.5 | 152.8 | 167.1 | 250.6 |
| EML1 | 84.3 | 86.7 | 86.1 | 84.9 | 83 | 84.6 | 79.6 | 79.6 |
| EML1 | 160 | 201.9 | 171.1 | 118.7 | 100.7 | 125.4 | 139.6 | 181.8 |
| EML3 | 1550.2 | 1781.9 | 1152.5 | 783.2 | 712.4 | 810 | 977.2 | 1136.8 |
| EML4 | 478.2 | 678.8 | 270.6 | 317.6 | 263.9 | 339.3 | 438 | 636.9 |
| EML5 | 89.4 | 96.1 | 91.3 | 89 | 76.7 | 88.2 | 96.1 | 98.3 |
| EMP1 | 127.8 | 123.4 | 114 | 94.7 | 83.2 | 110.1 | 150.9 | 251.6 |
| EMP2 | 132.9 | 169.2 | 98.4 | 93.3 | 86.8 | 104.7 | 137.9 | 143.5 |
| EMP3 | 5732.3 | 7847.8 | 4421.4 | 2675.3 | 1900.4 | 2646.7 | 5375.7 | 6685.9 |
| EMR1 | 78.8 | 87.7 | 91.9 | 106.5 | 91 | 119.1 | 77.5 | 94 |
| EMR2 | 186.8 | 253.1 | 156 | 512.6 | 412.7 | 528.4 | 171.1 | 201.8 |
| EMR3 | 72.4 | 80.2 | 77.1 | 74.4 | 72.7 | 73.4 | 78.5 | 87.7 |
| EMR3 | 96.8 | 116.2 | 96.8 | 82.9 | 89.8 | 85.8 | 103.3 | 111.1 |
| EMR4 | 99.6 | 117.6 | 106.5 | 99 | 95.1 | 94.2 | 91.4 | 99.5 |
| EMR4 | 99 | 99.6 | 95.4 | 101 | 88.7 | 96.1 | 85 | 95.2 |
| EMX1 | 110.9 | 122.2 | 103.1 | 85.2 | 91.9 | 82.7 | 109.2 | 117.5 |
| EMX1 | 87.1 | 101.1 | 87.7 | 81.2 | 81.1 | 79.3 | 90.3 | 96.4 |
| EMX2 | 125 | 139.4 | 86.8 | 86 | 90.3 | 85.7 | 116.8 | 126.9 |
| EN1 | 99.7 | 104.7 | 100.3 | 91.4 | 94.1 | 90.5 | 94.3 | 111.5 |
| EN2 | 107.8 | 131.2 | 78.3 | 82 | 72.4 | 95 | 102.1 | 135.6 |
| ENAH | 87.4 | 111.6 | 88.4 | 73.6 | 81.2 | 77.8 | 76.8 | 86.1 |
| ENAH | 89.8 | 117.1 | 92.8 | 76.9 | 81.7 | 86.6 | 88.3 | 101.9 |
| ENAH | 80.8 | 89.6 | 101.7 | 81.8 | 74.2 | 77.9 | 84.3 | 85.1 |
| ENAM | 79.2 | 93.1 | 89.7 | 91.2 | 89.2 | 88.6 | 82.4 | 83.2 |
| ENC1 | 151.9 | 178.3 | 144.5 | 166.3 | 140.5 | 174.1 | 155.1 | 222.3 |
| ENDOG | 805.1 | 1120.2 | 474.1 | 277.4 | 223.7 | 286.1 | 671.9 | 853.3 |
| ENDOGL1 | 182.6 | 212.3 | 117.4 | 106.5 | 97.5 | 104.6 | 201.6 | 239.2 |
| ENG | 371.6 | 516.4 | 400.6 | 312.8 | 199.5 | 373.1 | 312.1 | 565.1 |
| ENO1 | 20041.8 | 24067.5 | 16440.9 | 13657 | 10282.4 | 13413.8 | 20952.6 | 23640.2 |
| ENO2 | 126.7 | 127.3 | 95.9 | 86.4 | 90.3 | 102.5 | 112.2 | 136.7 |
| ENO3 | 246 | 238.2 | 175.7 | 173.3 | 163.6 | 204.6 | 171.4 | 168.4 |
| ENO3 | 86.8 | 119.6 | 108.1 | 110.7 | 102.8 | 109 | 94.6 | 98.8 |
| ENOSF1 | 1121.1 | 1200.7 | 427.1 | 465.7 | 438.3 | 657.8 | 759.7 | 1222.7 |
| ENPEP | 78.4 | 80.4 | 83.7 | 82.3 | 85.1 | 87 | 78.6 | 84.3 |
| ENPP1 | 119.7 | 142.7 | 111 | 102.5 | 109.5 | 103.1 | 110.4 | 114.9 |
| ENPP2 | 81.8 | 101.9 | 106.3 | 98.7 | 89 | 92.4 | 94.5 | 97.5 |
| ENPP2 | 86.1 | 101.4 | 81.2 | 80.9 | 79.9 | 78.9 | 88.7 | 95.8 |
| ENPP3 | 91.8 | 93.7 | 98 | 87.4 | 85.9 | 94.1 | 87.1 | 92 |
| ENPP4 | 247.7 | 294.9 | 188.5 | 277.5 | 185.2 | 440.7 | 205.4 | 353.8 |
| ENPP5 | 97 | 109.7 | 98.1 | 96.9 | 105.6 | 94.6 | 109.4 | 111.1 |
| ENPP6 | 81.1 | 79.2 | 91.2 | 83.2 | 74.8 | 92.9 | 74.8 | 86.9 |
| ENPP7 | 99.4 | 121.3 | 96.9 | 93 | 87.8 | 100.7 | 96.6 | 115.8 |
| ENSA | 106.7 | 108.8 | 93.9 | 88.6 | 86.5 | 91.2 | 101.3 | 115.1 |
| ENSA | 2040.1 | 3166.6 | 667.3 | 702.8 | 670.5 | 651.2 | 1956.3 | 2325.6 |
| ENTH | 3083.3 | 3730.9 | 1988 | 3226.2 | 2485.2 | 5318.7 | 1823.7 | 3576.5 |
| ENTPD1 | 274.1 | 276.9 | 139.2 | 138.9 | 107.9 | 148.2 | 249.2 | 257.4 |
| ENTPD2 | 71.6 | 79.5 | 85.3 | 88.5 | 81.7 | 78.8 | 80.5 | 86.3 |
| ENTPD2 | 96.9 | 115.5 | 90.7 | 86.8 | 76.8 | 79.1 | 94 | 108.1 |
| ENTPD3 | 87.7 | 107.6 | 107.5 | 82.1 | 66 | 82.2 | 101.9 | 113.8 |
| ENTPD4 | 232.7 | 257.5 | 207.3 | 136.9 | 149.4 | 131 | 182 | 251.8 |

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|----------|--------|---------|--------|--------|--------|--------|--------|---------|
| ENTPD5 | 128.6 | 157.9 | 101.8 | 94.1 | 88.6 | 95.5 | 119.4 | 123.1 |
| ENTPD6 | 445.9 | 496.1 | 448.9 | 318.8 | 307.6 | 461.5 | 355.6 | 563.8 |
| ENTPD7 | 180.3 | 216.7 | 134.3 | 108.5 | 100.5 | 119.1 | 131.9 | 196 |
| ENTPD8 | 84.8 | 97.3 | 85.6 | 86.8 | 87.8 | 87.2 | 88 | 91.7 |
| ENTPD8 | 135.5 | 136.2 | 96.9 | 84 | 82.2 | 89.9 | 112.8 | 161.2 |
| ENTPD8 | 94.1 | 106.8 | 89 | 83.7 | 83.7 | 89.1 | 90.7 | 103.3 |
| ENY2 | 9037.4 | 10279.4 | 5292.7 | 3734.3 | 2990.7 | 4655.5 | 8237.7 | 12238.4 |
| EOMES | 152.7 | 187.5 | 111.7 | 95.1 | 85 | 95.2 | 118.4 | 167.7 |
| EP300 | 212.8 | 270.2 | 264.7 | 644.4 | 562.9 | 658.3 | 216.4 | 520.3 |
| EP400 | 409.2 | 589 | 394.6 | 912.2 | 591.3 | 909.8 | 436.8 | 745.6 |
| EP400NL | 88.8 | 94.9 | 101.3 | 80.3 | 84.8 | 90.4 | 87.3 | 91.3 |
| EPAG | 90.9 | 102.7 | 90.8 | 89.5 | 88 | 99.4 | 89.5 | 98.6 |
| EPAS1 | 270.5 | 326 | 295.7 | 838.8 | 861.6 | 868.7 | 360.8 | 674.6 |
| EPB41 | 127.6 | 153.8 | 91.6 | 81.8 | 77.8 | 84.5 | 109.6 | 160.2 |
| EPB41 | 76.8 | 78 | 96.6 | 86.1 | 83.8 | 81.1 | 79.6 | 75.6 |
| EPB41 | 111.8 | 128.4 | 94.1 | 97.9 | 91.1 | 103.8 | 105.2 | 129.1 |
| EPB41L1 | 93.7 | 92.7 | 95.4 | 96.9 | 99 | 97 | 92 | 99.4 |
| EPB41L1 | 112.7 | 131.9 | 98.5 | 84.1 | 76.7 | 87 | 116.8 | 118.5 |
| EPB41L2 | 124.2 | 134 | 87.6 | 94.1 | 80.3 | 102.2 | 118.4 | 148.5 |
| EPB41L3 | 318.5 | 425.9 | 383.4 | 1176 | 648.7 | 1971.8 | 406.5 | 844.9 |
| EPB41L4B | 150.1 | 183.2 | 98.6 | 99.3 | 96.1 | 98.9 | 140.3 | 172.8 |
| EPB41L4B | 124.7 | 167.2 | 88.5 | 90.2 | 93.9 | 87.7 | 138.2 | 158.5 |
| EPB41L5 | 89.5 | 125.6 | 83.9 | 84.9 | 72.1 | 83.6 | 91.6 | 135.4 |
| EPB42 | 77.7 | 88 | 84.1 | 81.3 | 82 | 82.9 | 75.9 | 93.3 |
| EPB49 | 109.5 | 129 | 116 | 101.2 | 105.8 | 117.8 | 103.6 | 118.9 |
| EPC1 | 177.1 | 217.5 | 149.7 | 141.4 | 130.9 | 147 | 150.8 | 165.8 |
| EPC2 | 122.2 | 163.7 | 94.3 | 96 | 102.1 | 127 | 122.8 | 144.8 |
| EPDR1 | 2755.3 | 3845.4 | 2290 | 2292.8 | 1656.8 | 2537.3 | 3139.1 | 5130.1 |
| EPGN | 319.9 | 439.4 | 149.7 | 122.2 | 109 | 146.2 | 277.6 | 293.3 |
| EPHA1 | 131.3 | 158.8 | 156.4 | 120.9 | 99.6 | 135 | 118.8 | 125.1 |
| EPHA10 | 105.9 | 115.1 | 121.1 | 105.2 | 104.9 | 123.8 | 99.3 | 109.2 |
| EPHA10 | 97 | 97.8 | 100.9 | 86.5 | 90.9 | 92.9 | 87.6 | 98.6 |
| EPHA2 | 92.8 | 97.3 | 90.5 | 85.2 | 85.8 | 87.2 | 90 | 104 |
| EPHA3 | 96.4 | 108 | 95.6 | 91.9 | 85.8 | 86.3 | 86.2 | 97.5 |
| EPHA3 | 77.2 | 85.1 | 99.9 | 95.8 | 98.7 | 102.4 | 83.2 | 79.4 |
| EPHA3 | 94.8 | 97.1 | 84.4 | 79.6 | 76.7 | 87 | 85 | 103.1 |
| EPHA4 | 83.4 | 93 | 93.8 | 90.9 | 88.4 | 87.8 | 94 | 86.4 |
| EPHA5 | 110.7 | 112.4 | 84.3 | 80.8 | 87 | 85.2 | 100.4 | 123.2 |
| EPHA5 | 81.1 | 79.8 | 84.4 | 76 | 78.2 | 72.8 | 78.2 | 86.3 |
| EPHA5 | 122.8 | 135.5 | 85.4 | 87.2 | 80.8 | 84 | 111.2 | 135.8 |
| EPHA6 | 84.6 | 95.5 | 88 | 85.4 | 82.1 | 80.2 | 84.4 | 94 |
| EPHA6 | 117.3 | 129.9 | 120.8 | 107.9 | 102.1 | 108 | 111.9 | 117.5 |
| EPHA7 | 84.1 | 96.7 | 100.7 | 102.1 | 96.1 | 90.7 | 87.8 | 87.8 |
| EPHA8 | 124.3 | 139.1 | 115.7 | 125.9 | 103 | 101.7 | 112.8 | 128 |
| EPHA8 | 78.1 | 81 | 96.8 | 89.6 | 90.3 | 87 | 76.1 | 82.5 |
| EPHB1 | 207.8 | 254.1 | 223 | 495.7 | 317.3 | 697.2 | 191.5 | 395 |
| EPHB2 | 107.9 | 143.5 | 106 | 87.8 | 89.8 | 88.6 | 109.2 | 128.2 |
| EPHB2 | 100.6 | 110.6 | 84 | 80.1 | 82.5 | 86.7 | 99.9 | 94.9 |
| EPHB3 | 112.5 | 130.6 | 125.3 | 121.6 | 107.8 | 114.4 | 94.4 | 122.9 |
| EPHB4 | 152.1 | 180.6 | 175.8 | 172.4 | 150.6 | 195.5 | 125.6 | 181.8 |

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|----------|--------|---------|--------|--------|--------|--------|--------|--------|
| EPHB6 | 110.1 | 123.5 | 138.9 | 100.8 | 93.6 | 123.4 | 106.6 | 160.9 |
| EPHX1 | 196.7 | 258.9 | 168.6 | 132.7 | 127.2 | 137 | 242.7 | 357.3 |
| EPHX2 | 159.7 | 195.6 | 100.8 | 107.7 | 98.5 | 131.9 | 149.7 | 178.9 |
| EPIM | 114.9 | 148.5 | 91.1 | 86.3 | 85.3 | 95 | 105.8 | 132.5 |
| EPM2A | 176 | 195.4 | 103.4 | 99.2 | 106.1 | 101.1 | 157.2 | 211.2 |
| EPM2A | 96.2 | 92.3 | 101 | 91.9 | 91.4 | 94.4 | 89 | 97.5 |
| EPM2AIP1 | 410.4 | 531.4 | 399.8 | 437.7 | 347.7 | 557.6 | 298.6 | 702 |
| EPN1 | 6023 | 8023.4 | 4871.5 | 3119.2 | 2589.3 | 3017.8 | 5668.1 | 7782.2 |
| EPN2 | 80.5 | 98.4 | 92.2 | 99.3 | 85.5 | 88.2 | 86.1 | 99.4 |
| EPN2 | 84 | 91.4 | 97.2 | 99.4 | 84.3 | 99 | 84.8 | 83.8 |
| EPN2 | 91.7 | 99.6 | 104.6 | 111.9 | 99.4 | 96.2 | 84.3 | 108.1 |
| EPN3 | 105 | 123.6 | 104 | 87.1 | 78.8 | 84 | 107.3 | 112.2 |
| EPO | 84.1 | 86.6 | 91.4 | 81.7 | 79.2 | 85.9 | 91 | 91 |
| EPOR | 193.6 | 213.3 | 131.4 | 128.3 | 110 | 132.1 | 181 | 254.8 |
| EPPB9 | 114.8 | 128 | 104.1 | 92.4 | 80 | 93.6 | 108.7 | 133.4 |
| EPR1 | 133.9 | 175.7 | 127.1 | 100.3 | 109.6 | 96.4 | 106.4 | 109.5 |
| EPRS | 8622.3 | 10916.9 | 5391 | 5064.9 | 4112.9 | 7097 | 6963 | 8737 |
| EPS15 | 243.7 | 303.5 | 191.8 | 209.1 | 178.1 | 277.6 | 247.3 | 307.8 |
| EPS15L1 | 175.3 | 211.3 | 167 | 162.3 | 148.5 | 153.1 | 165.3 | 198.8 |
| EPS8L1 | 86 | 97.3 | 103.9 | 98.7 | 96.1 | 90.7 | 88.4 | 105.7 |
| EPS8L1 | 124.6 | 140.1 | 127.6 | 107 | 98.7 | 106.9 | 133.2 | 169.4 |
| EPS8L1 | 79.7 | 87.5 | 98.1 | 91.8 | 82.5 | 81.1 | 80.3 | 84.1 |
| EPS8L1 | 121.2 | 149.5 | 97.6 | 79.6 | 81.7 | 76 | 111.5 | 143 |
| EPS8L2 | 109.9 | 125.8 | 88.3 | 79.6 | 85 | 78.6 | 102.6 | 123.3 |
| EPS8L3 | 111.9 | 141.5 | 93.6 | 89.1 | 88.9 | 92.9 | 110.8 | 111.5 |
| EPS8L3 | 151 | 140 | 102.5 | 83.7 | 96.4 | 109.5 | 139.2 | 154.1 |
| EPSTI1 | 214.4 | 300.2 | 210.8 | 188.4 | 191.8 | 212.2 | 190.7 | 216.3 |
| EPX | 120.6 | 136.9 | 97.4 | 83.8 | 78.5 | 89.2 | 105.7 | 128.7 |
| ERAF | 105.4 | 139.2 | 92.7 | 94.8 | 87.3 | 90.1 | 114.8 | 114.1 |
| ERAL1 | 1577.2 | 1794.8 | 1096.6 | 843.4 | 605.4 | 1049.3 | 1350.7 | 2400.6 |
| ERAS | 89.8 | 98.6 | 87.9 | 99.4 | 83.9 | 88.6 | 84.7 | 104.1 |
| ERBB2 | 96.1 | 99.8 | 79 | 81.2 | 75 | 68.7 | 96.3 | 111.6 |
| ERBB2 | 103 | 128.3 | 111.4 | 99.1 | 97.9 | 102.2 | 106.1 | 111.6 |
| ERBB2 | 97.7 | 118.6 | 117.5 | 122.2 | 118.8 | 145.9 | 99.7 | 106.1 |
| ERBB2IP | 193 | 253.8 | 131.8 | 124.9 | 123.4 | 142.2 | 156.3 | 174.3 |
| ERBB2IP | 105.2 | 127.2 | 107 | 109.9 | 111.5 | 118.6 | 109.4 | 121.8 |
| ERBB3 | 114 | 133.7 | 119.3 | 91.2 | 98.3 | 98.7 | 117.3 | 120.7 |
| ERBB3 | 88.5 | 92.2 | 94.6 | 94.5 | 89.2 | 91.2 | 81.6 | 91 |
| ERBB3 | 102.5 | 111.2 | 94.1 | 82.5 | 86.5 | 96.4 | 105.1 | 99.5 |
| ERBB4 | 118.1 | 149.3 | 141.8 | 134.6 | 128.7 | 134.7 | 136.7 | 119.2 |
| ERC1 | 103.8 | 123.4 | 93.9 | 86.1 | 92 | 88.2 | 105.9 | 123.4 |
| ERCC1 | 1265.5 | 1673 | 1339.4 | 1077.4 | 833.2 | 1245.7 | 1175.5 | 1786.8 |
| ERCC1 | 2104.9 | 2796.6 | 1476.6 | 1062.5 | 771.1 | 985.1 | 2044.9 | 2111.3 |
| ERCC1 | 124.5 | 151.6 | 101.9 | 99.1 | 92.7 | 107.3 | 119.6 | 143.4 |
| ERCC2 | 530.6 | 715.6 | 353.7 | 261.1 | 256.7 | 298.1 | 501.9 | 464.3 |
| ERCC3 | 508.7 | 659.2 | 437.9 | 465.9 | 454.2 | 761.2 | 466.9 | 697 |
| ERCC4 | 146.8 | 162.2 | 118.8 | 119.2 | 99.2 | 100.3 | 124.4 | 138.6 |
| ERCC5 | 1003.4 | 1188.6 | 804.4 | 1099.2 | 943.9 | 1682.8 | 731.1 | 1395.9 |
| ERCC6 | 103.3 | 108.9 | 95.9 | 85.3 | 91.6 | 88.1 | 96.2 | 125.2 |
| ERCC8 | 66.6 | 81.8 | 89.7 | 86.3 | 86.5 | 85.2 | 79.2 | 78.6 |

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|--------|---------|---------|--------|--------|--------|---------|---------|---------|
| ERCC8 | 326.3 | 440.1 | 177.3 | 180.6 | 153.7 | 184.6 | 262.7 | 351.5 |
| ERCC8 | 76.8 | 87.5 | 93.5 | 82.5 | 80.9 | 85.2 | 75.4 | 85.2 |
| ERCC8 | 277.7 | 346.9 | 155.4 | 154 | 121 | 183.5 | 207.2 | 295.1 |
| EREG | 103.9 | 109.8 | 99.2 | 96.7 | 100.4 | 95.4 | 103.4 | 116.3 |
| ERF | 252.8 | 314.8 | 194 | 131.9 | 134.3 | 158.4 | 237.3 | 363.6 |
| ERG | 71.7 | 99.4 | 93.6 | 90.1 | 78.7 | 82.7 | 78.3 | 81.3 |
| ERG | 96.3 | 107.1 | 94.7 | 92.4 | 91.6 | 85.7 | 90.9 | 111.2 |
| ERG | 128 | 157.7 | 113.6 | 107.4 | 96 | 98.1 | 138.2 | 138.4 |
| ERGIC1 | 406.9 | 589.3 | 186.2 | 211.4 | 184 | 221.2 | 342.4 | 486.7 |
| ERGIC1 | 157.3 | 205.9 | 103.7 | 105.8 | 109.3 | 96.3 | 129.7 | 164.3 |
| ERGIC1 | 134.9 | 149.2 | 97.1 | 114.2 | 99.3 | 100.2 | 131.2 | 160.1 |
| ERGIC2 | 680.1 | 776 | 231.7 | 245.2 | 181 | 238.2 | 611.5 | 1173.5 |
| ERGIC3 | 1657.8 | 2377.5 | 925.8 | 665.6 | 626 | 662.7 | 1612.8 | 1909.4 |
| ERGIC3 | 4474.2 | 6189.2 | 3939.2 | 2985.3 | 2494.6 | 3718.3 | 4368.4 | 6024.6 |
| ERH | 5636.6 | 7685.8 | 2472.3 | 1925 | 1652.8 | 2234.9 | 4989 | 5164.2 |
| ERICH1 | 1603.9 | 1994.6 | 931.6 | 904.4 | 706.8 | 1192.4 | 1271.2 | 1712.2 |
| ERLIN2 | 209.7 | 238.9 | 139.3 | 142 | 135 | 146.2 | 171.1 | 181.8 |
| ERMAP | 144.4 | 169.8 | 101 | 158.5 | 143.9 | 111.2 | 112 | 124.9 |
| ERMAP | 747.2 | 888.5 | 350.9 | 458.7 | 385.9 | 521 | 684 | 977.5 |
| ERN1 | 221.3 | 310.5 | 168.1 | 175.5 | 158.3 | 191 | 186.3 | 199 |
| ERN1 | 79.3 | 85.4 | 85.6 | 85.6 | 79.9 | 78.5 | 86.4 | 85 |
| ERN2 | 134.7 | 145.7 | 96.6 | 89.8 | 90.5 | 99 | 130.7 | 156.9 |
| ERO1L | 415.5 | 540.7 | 274.8 | 244.7 | 199 | 294.8 | 333.7 | 472.5 |
| ERO1LB | 160.2 | 183.2 | 128.7 | 114.2 | 102.2 | 133.2 | 160.2 | 299.6 |
| ERP29 | 2601.9 | 3891.3 | 1729.1 | 1620.2 | 1385.7 | 1050.2 | 2311.1 | 2954.7 |
| ERP29 | 10623.9 | 12747.9 | 8717.3 | 9618.2 | 8848.4 | 12274.9 | 10033.6 | 12038.7 |
| ERRFI1 | 217.4 | 265.8 | 137.5 | 154.5 | 151 | 202.1 | 213.6 | 341 |
| ERV3 | 95.9 | 109.6 | 109.1 | 149.7 | 131.5 | 141 | 96.1 | 98.3 |
| ERVWE1 | 110.7 | 117.5 | 98.4 | 85.6 | 94.1 | 89 | 98.4 | 108.7 |
| ESAM | 121.8 | 110.1 | 101.7 | 93.5 | 91 | 95.5 | 121.1 | 137.9 |
| ESCO1 | 150.2 | 176.8 | 104.5 | 120.9 | 103 | 139.4 | 142.3 | 247.5 |
| ESCO2 | 184.8 | 246 | 106.9 | 84.6 | 94.1 | 92.6 | 168.1 | 267.9 |
| ESD | 848.2 | 952.7 | 188.7 | 201.8 | 144.3 | 205.6 | 674.6 | 880.7 |
| ESM1 | 87.3 | 100.9 | 84.6 | 80 | 80.5 | 78.9 | 107.5 | 124.5 |
| ESPL1 | 240.5 | 308.8 | 251.3 | 226.8 | 192.5 | 270.3 | 243.3 | 325.2 |
| ESPN | 160.1 | 176.3 | 116.5 | 102.2 | 99.9 | 104.7 | 159.1 | 170.6 |
| ESPNL | 82.1 | 78.5 | 79 | 82.4 | 76 | 81.1 | 80.3 | 86.5 |
| ESR1 | 84.8 | 91.6 | 83.7 | 84.2 | 86.1 | 89.1 | 85.9 | 86.4 |
| ESR2 | 98.7 | 109.3 | 90.4 | 90.3 | 81.1 | 90.3 | 101.5 | 119.9 |
| ESR2 | 90.2 | 101 | 98.7 | 94.7 | 88.7 | 91.8 | 90.1 | 94.9 |
| ESRRA | 314 | 412.3 | 314.1 | 188.4 | 153.4 | 298.7 | 237.1 | 371.9 |
| ESRRB | 102.3 | 116.7 | 102.7 | 94.3 | 95.5 | 90.2 | 110.1 | 112.5 |
| ESRRG | 142.2 | 151.6 | 98.9 | 101.1 | 101.3 | 95.2 | 140.7 | 137.8 |
| ESRRG | 86.3 | 103.8 | 96.5 | 88.6 | 87.1 | 90.1 | 85.5 | 99.5 |
| ESRRG | 68.4 | 73.6 | 73.3 | 72.2 | 69.3 | 76.1 | 63.5 | 74.2 |
| ESSPL | 74.1 | 82.8 | 78.6 | 84 | 72.6 | 77.1 | 76.7 | 86.2 |
| ESTRRA | 398.1 | 433.8 | 206.7 | 168.8 | 149.1 | 181 | 357.4 | 361.5 |
| ESX1 | 90.6 | 99.4 | 96.4 | 84.2 | 83.2 | 81.3 | 92.8 | 106.8 |
| ET | 306.8 | 367.4 | 260.1 | 406.7 | 391.5 | 349.7 | 328.7 | 468.5 |
| ETAA16 | 98.2 | 108.9 | 101.1 | 98.2 | 86.2 | 93 | 90.3 | 122.4 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ETF1 | 4445.7 | 5827.1 | 2074.3 | 2001.1 | 1413.8 | 2289 | 4844 | 7641.4 |
| ETFA | 6319.8 | 8894.7 | 4757.4 | 4905.8 | 3852.5 | 6867.5 | 5109.7 | 7207.4 |
| ETFB | 70.8 | 77.8 | 76.6 | 79.5 | 72.7 | 76.1 | 72.5 | 69.8 |
| ETFB | 3371.3 | 4303.5 | 2249.8 | 1933.6 | 1785.2 | 2022.4 | 3412.6 | 3734.6 |
| ETFB | 2601.3 | 3388.8 | 1554.6 | 1917.1 | 1605.3 | 1969.9 | 2587.6 | 2651.5 |
| ETFDH | 634.4 | 893.6 | 528.5 | 473.6 | 380.3 | 705.7 | 551.2 | 890.9 |
| ETHE1 | 127.7 | 151.9 | 100.6 | 101.1 | 87.3 | 95.5 | 111.3 | 146 |
| ETNK1 | 99.6 | 106 | 96.4 | 97.1 | 96.9 | 101.9 | 93.5 | 113.8 |
| ETNK1 | 242.2 | 309.3 | 134.2 | 138.5 | 116.9 | 150 | 223.5 | 365.8 |
| ETNK1 | 305 | 366.8 | 170.3 | 190.2 | 140.4 | 203.1 | 305.6 | 519.7 |
| ETNK2 | 85.1 | 107.7 | 101.9 | 85.9 | 77.3 | 82.7 | 90.3 | 90.9 |
| ETS1 | 419.6 | 527.7 | 230.2 | 225.2 | 192.4 | 288.9 | 367.6 | 480.1 |
| ETS2 | 446.1 | 587.5 | 513.1 | 543.5 | 567.9 | 675.6 | 305.9 | 529.6 |
| ETV1 | 79.3 | 77.9 | 81.4 | 77.2 | 75.8 | 80 | 75.6 | 79.7 |
| ETV2 | 148.5 | 149.9 | 95 | 88.4 | 91 | 87.8 | 131.8 | 166.2 |
| ETV3 | 137.1 | 141.7 | 107.1 | 126.3 | 119 | 100.4 | 123.9 | 159 |
| ETV4 | 161.8 | 172.6 | 152.6 | 109.7 | 102.8 | 154.2 | 143.3 | 188.5 |
| ETV4 | 111 | 148.1 | 113.8 | 91.9 | 82.7 | 109.3 | 122.1 | 148 |
| ETV5 | 468 | 609.7 | 450.1 | 523.3 | 353.7 | 488.8 | 549 | 755.1 |
| ETV5 | 139.2 | 174.4 | 101.8 | 112.7 | 92.7 | 95.5 | 148.9 | 180.9 |
| ETV6 | 466 | 606.1 | 250.8 | 268.4 | 234.8 | 261.3 | 417 | 426.3 |
| EVA1 | 107.5 | 119.1 | 101.8 | 85.9 | 83.7 | 86.5 | 112.4 | 111.3 |
| EVA1 | 128.3 | 149.8 | 96.8 | 98.4 | 94.2 | 95.7 | 122 | 149.5 |
| EVA1 | 76.9 | 70.3 | 92.2 | 82.7 | 72.8 | 78.7 | 67.6 | 75 |
| EVC | 117.2 | 149.5 | 103.5 | 103 | 95.1 | 91 | 114 | 111 |
| EVC | 121.9 | 150 | 103.9 | 93.4 | 78.3 | 100.3 | 117.1 | 153.1 |
| EVC2 | 118.8 | 160.9 | 103.7 | 104.7 | 93.5 | 106.7 | 126 | 146 |
| EVI1 | 78.2 | 84.1 | 93.9 | 76.8 | 89.7 | 92.2 | 84.5 | 88.5 |
| EVI2A | 240 | 295.4 | 129.9 | 137.9 | 121.9 | 154.4 | 237.6 | 327.5 |
| EVI2A | 109.1 | 130.3 | 102.5 | 87.3 | 95.7 | 103.6 | 113 | 125.1 |
| EVI2B | 109.8 | 136.1 | 93.5 | 95 | 84.1 | 89.6 | 107 | 121.3 |
| EVI5L | 498.5 | 703.8 | 405.1 | 318.9 | 295 | 348.4 | 497.3 | 516.4 |
| EVL | 3444.2 | 3978.4 | 2110.8 | 1847.4 | 1874.4 | 1907.3 | 2805.1 | 2652.3 |
| EVPL | 88.3 | 100.8 | 91.6 | 104 | 91.2 | 85.2 | 95.4 | 91 |
| EVX1 | 135.8 | 132.1 | 87.4 | 92.7 | 79.7 | 82 | 114.7 | 142.7 |
| EVX2 | 118.1 | 119.4 | 94.9 | 82.7 | 82.7 | 83.8 | 96.8 | 122.4 |
| EWSR1 | 2795 | 3104.6 | 1603.1 | 2190 | 1679.8 | 2986.6 | 2696.8 | 3086 |
| EWSR1 | 260.5 | 268 | 124.3 | 98.5 | 97.5 | 129.5 | 201.7 | 265.3 |
| EWSR1 | 2689.3 | 3653.9 | 2292.3 | 2690.6 | 2073 | 3937.8 | 2173.8 | 3536.3 |
| EXDL1 | 109.2 | 119.5 | 94.6 | 78.1 | 81.2 | 80.1 | 107.1 | 111.8 |
| EXDL2 | 279.1 | 345.2 | 310.3 | 282.4 | 226.2 | 332.1 | 246.1 | 425.4 |
| EXO1 | 1978.1 | 2680.2 | 904.6 | 884.1 | 719.8 | 1185.7 | 1411.1 | 1515.8 |
| EXO1 | 350.3 | 488.8 | 232.6 | 170.1 | 161.5 | 255.5 | 224.4 | 273.7 |
| EXO1 | 91.9 | 129.6 | 88.2 | 89.1 | 88.5 | 83.8 | 89.6 | 103.6 |
| EXOC1 | 147.2 | 182.2 | 140.2 | 152.4 | 154.8 | 121.7 | 160.5 | 151.6 |
| EXOC1 | 387.5 | 435.1 | 151.2 | 157.4 | 133.7 | 223.5 | 267 | 422.5 |
| EXOC1 | 505.7 | 683.4 | 369.2 | 426.5 | 344.4 | 699.3 | 419.7 | 1066 |
| EXOC2 | 160.7 | 171.6 | 132.1 | 164.2 | 121.1 | 207.2 | 128.2 | 174.7 |
| EXOC3L | 88.6 | 96.5 | 103 | 86.9 | 86.4 | 93 | 89.3 | 100.8 |
| EXOC4 | 192.5 | 271.6 | 115.9 | 158 | 149.8 | 144.2 | 155.3 | 175.2 |

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|---------|--------|--------|--------|--------|-------|--------|--------|--------|
| EXOC6 | 106.7 | 129.8 | 113.2 | 95.3 | 94.6 | 107.7 | 108.1 | 110.2 |
| EXOC6 | 438.1 | 530.2 | 273.8 | 216.7 | 196.2 | 311.5 | 373.3 | 601.5 |
| EXOC6 | 116.4 | 106.5 | 92.1 | 85.7 | 100.1 | 83.7 | 105.7 | 126.2 |
| EXOC7 | 770 | 839.3 | 911.6 | 661.7 | 582.4 | 851.1 | 715.8 | 1029.8 |
| EXOC7 | 139.7 | 159.9 | 128.6 | 146.2 | 112.4 | 134.6 | 121.7 | 142.8 |
| EXOC8 | 116.1 | 127.4 | 116.2 | 94.5 | 92.1 | 100.2 | 136.6 | 135.9 |
| EXOSC1 | 3016.7 | 3893.1 | 2161.2 | 1505 | 1127 | 1753.3 | 2755.7 | 3076.5 |
| EXOSC10 | 975.2 | 1109.2 | 555.2 | 525.4 | 406.5 | 646.5 | 882.8 | 1325.9 |
| EXOSC10 | 2634.5 | 3246.9 | 896.4 | 861.6 | 819.5 | 1032.2 | 2131 | 2390.7 |
| EXOSC10 | 956.5 | 1350.4 | 683.1 | 571.5 | 515.8 | 907.5 | 661.4 | 843.3 |
| EXOSC2 | 1243.2 | 1641.8 | 851.6 | 643.1 | 502.9 | 617.3 | 889.1 | 1142.3 |
| EXOSC3 | 4182.3 | 5411.8 | 2028.2 | 1263.7 | 886.5 | 1584.7 | 3277.5 | 5178.2 |
| EXOSC3 | 5859.9 | 7377.5 | 2395.2 | 1659.4 | 1275 | 1930.3 | 5241 | 6455.6 |
| EXOSC4 | 982.3 | 1368.2 | 630.4 | 405.4 | 321.9 | 458.3 | 909.9 | 1177 |
| EXOSC5 | 1154.2 | 1561 | 771.7 | 482.2 | 380.3 | 600.7 | 1006.4 | 1034 |
| EXOSC6 | 1074.7 | 1523.5 | 971.4 | 700.5 | 538 | 645.6 | 1195.1 | 1518.5 |
| EXOSC7 | 1844.2 | 2383.8 | 1245.6 | 1023.2 | 744.4 | 1081.3 | 1623.1 | 2020.9 |
| EXOSC8 | 2753.4 | 3066.6 | 963.5 | 907.7 | 656.1 | 987.9 | 2667.3 | 3601.2 |
| EXOSC9 | 826.7 | 1119.7 | 232.8 | 169.2 | 146.2 | 213 | 734.1 | 1223.4 |
| EXOSC9 | 1468.5 | 1973.4 | 516.4 | 324.6 | 269.2 | 471.8 | 1194.1 | 2277.8 |
| EXPH5 | 108.3 | 112.4 | 100.5 | 94.5 | 85.7 | 82.4 | 110.5 | 115.9 |
| EXT1 | 132.1 | 158.9 | 138.1 | 116.2 | 110.3 | 110.3 | 122.5 | 151.8 |
| EXT2 | 74 | 78.3 | 80.6 | 80.4 | 85.1 | 81.7 | 77.4 | 92.7 |
| EXT2 | 470.7 | 617.2 | 332.1 | 268.4 | 237.6 | 358.5 | 396.6 | 484.4 |
| EXT2 | 307.7 | 398.9 | 204.4 | 183.7 | 142.7 | 201.3 | 283.6 | 364.1 |
| EXTL1 | 128.6 | 150.3 | 107.9 | 93.3 | 96.8 | 103.4 | 122.4 | 129.1 |
| EXTL2 | 302.5 | 386.9 | 160 | 125.4 | 115.9 | 111.7 | 212.8 | 360 |
| EXTL2 | 454 | 530 | 376.3 | 251.8 | 196.9 | 303.5 | 336.3 | 776.9 |
| EXTL3 | 160.8 | 213.1 | 236.9 | 208.3 | 180.8 | 246.4 | 179.3 | 220.6 |
| EYA1 | 109.7 | 136.3 | 102.9 | 81.2 | 88.1 | 89.5 | 93.7 | 125.4 |
| EYA1 | 74.3 | 90.6 | 78.9 | 75.1 | 73 | 82 | 78.2 | 93.5 |
| EYA1 | 90.9 | 99 | 88.6 | 86.4 | 89 | 87.6 | 79.4 | 111.8 |
| EYA2 | 116 | 150.1 | 104.8 | 107.5 | 91.4 | 96.8 | 134.6 | 135.8 |
| EYA2 | 84.7 | 96.9 | 87.4 | 94.4 | 80 | 95.6 | 84.3 | 90.5 |
| EYA2 | 90.3 | 98.5 | 91 | 97.8 | 87.5 | 91.3 | 98 | 106.1 |
| EYA2 | 87.3 | 84.5 | 94.4 | 99.8 | 92 | 95.8 | 78 | 88.7 |
| EYA2 | 88.7 | 102.3 | 93.2 | 73 | 77.5 | 76.7 | 89.2 | 92 |
| EYA3 | 122 | 140.6 | 115.8 | 114.1 | 111.3 | 117.1 | 104.6 | 126.8 |
| EYA3 | 73.3 | 85 | 93.4 | 97.3 | 84.3 | 75.3 | 93.7 | 94.5 |
| EYA4 | 94.7 | 114 | 88.4 | 95 | 84.4 | 85.2 | 104.2 | 115.7 |
| EYA4 | 85 | 97.4 | 100.8 | 93.3 | 82 | 88.3 | 85.5 | 93.9 |
| EYA4 | 94.8 | 101.4 | 100.3 | 89.1 | 93.7 | 90.8 | 102.2 | 92.1 |
| EZH1 | 99.4 | 120.9 | 115 | 113 | 99.1 | 101.3 | 103.5 | 105.6 |
| EZH2 | 829 | 1259.2 | 354.5 | 341.8 | 327.2 | 228.9 | 670.9 | 986.9 |
| EZH2 | 567.8 | 610.4 | 317.3 | 238.1 | 244.6 | 355.8 | 459.3 | 663 |
| EZH2 | 778.5 | 1083.9 | 577.3 | 456.9 | 484.1 | 687.1 | 541.4 | 703.8 |
| F10 | 78.4 | 90.5 | 89.9 | 84.1 | 83 | 93.6 | 74.3 | 87.2 |
| F11 | 95.3 | 105.2 | 105.6 | 96.2 | 97.4 | 97.4 | 90.1 | 90.4 |
| F11 | 97.4 | 100.5 | 89.7 | 86 | 85.5 | 91.7 | 86.7 | 88.6 |
| F11R | 97.2 | 111.1 | 127.3 | 99.3 | 97.5 | 128.4 | 101 | 107.7 |

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|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| F11R | 121.3 | 118.6 | 95.3 | 86.1 | 88 | 94.5 | 105.3 | 106.2 |
| F11R | 246.5 | 300.7 | 119 | 157.8 | 133.2 | 193.2 | 260.9 | 304.7 |
| F12 | 194.7 | 226.1 | 147.3 | 104.7 | 105.1 | 114.7 | 165.7 | 163.3 |
| F13A1 | 97.6 | 144.6 | 107.4 | 233.5 | 185.5 | 296.7 | 97.1 | 136.8 |
| F13B | 84.2 | 88.9 | 87.3 | 90.4 | 78.4 | 86.5 | 78.3 | 82.8 |
| F25965 | 150.2 | 170.3 | 113 | 107.5 | 95.2 | 105.9 | 140.3 | 187.5 |
| F2R | 27023.9 | 28483.7 | 19804.1 | 25167.9 | 27558.7 | 23013 | 27042.7 | 29726.1 |
| F2RL1 | 83.9 | 85.3 | 85.4 | 88.2 | 80.3 | 89.8 | 86.9 | 100.4 |
| F2RL2 | 91.7 | 105.9 | 83.6 | 74.5 | 77.9 | 79.8 | 93 | 106.4 |
| F2RL3 | 143 | 175.7 | 120.2 | 109.6 | 100.1 | 106.3 | 159 | 144 |
| F3 | 166 | 157.8 | 110.9 | 124.9 | 135 | 144.9 | 184.6 | 269.6 |
| F5 | 141.7 | 142.8 | 101.1 | 100.3 | 84.6 | 98.4 | 121.5 | 139.4 |
| F7 | 73.7 | 80.7 | 85.9 | 78.4 | 80.3 | 77.7 | 78.2 | 74.9 |
| F7 | 126.1 | 115.9 | 97.8 | 92.4 | 94.6 | 98.7 | 108.2 | 115.2 |
| F7 | 108.6 | 120.9 | 84.1 | 87.1 | 80.9 | 94.1 | 108.5 | 125.1 |
| F8 | 112.1 | 126.9 | 98 | 95.2 | 97.1 | 99.1 | 112.8 | 106.9 |
| F8 | 86.2 | 87 | 99.5 | 94.9 | 94.6 | 91.3 | 89.8 | 81 |
| F8 | 93.8 | 124.5 | 86.8 | 83.2 | 85.3 | 88.6 | 104.7 | 114.2 |
| F8A1 | 513 | 690.5 | 465.8 | 328.8 | 275.4 | 376.1 | 485.4 | 774 |
| F8A3 | 123.4 | 157.9 | 94.2 | 83.5 | 88.3 | 94.6 | 123.7 | 141.5 |
| F9 | 97.1 | 102.9 | 112.4 | 102.7 | 98.5 | 88.1 | 102.1 | 98.9 |
| FA2H | 72.4 | 90.6 | 90.6 | 84.7 | 81 | 77.3 | 90.8 | 100 |
| FAAH | 101.3 | 140.4 | 108 | 94.2 | 96.9 | 125.3 | 103 | 140 |
| FABP1 | 86.7 | 87.2 | 96.5 | 84.7 | 85 | 84.6 | 82.9 | 89.4 |
| FABP2 | 93.1 | 96.1 | 107.2 | 107 | 97.7 | 97.7 | 90.8 | 89 |
| FABP3 | 126.8 | 141.9 | 95.3 | 87.9 | 75.4 | 87.6 | 119.5 | 132.7 |
| FABP4 | 113.2 | 135.9 | 92.3 | 94.6 | 86.9 | 98.9 | 90.6 | 130.9 |
| FABP5 | 120.4 | 134.6 | 93.1 | 95.9 | 93.5 | 86.4 | 117.8 | 143.3 |
| FABP5L3 | 107 | 138.1 | 120.6 | 99.7 | 95.1 | 101.8 | 118.1 | 122.4 |
| FABP6 | 83.8 | 95.1 | 84.4 | 76.1 | 81.2 | 88.8 | 95.3 | 89.7 |
| FABP6 | 102.8 | 106.4 | 88.3 | 83.8 | 83.1 | 93 | 110.5 | 105.6 |
| FABP7 | 179.8 | 208.5 | 119.3 | 118.2 | 96 | 107.6 | 173 | 193.8 |
| FADD | 1358.4 | 1990.5 | 776.3 | 653 | 600.1 | 826.1 | 1412.4 | 1488.3 |
| FADS1 | 990.1 | 1540.3 | 1100.6 | 952.8 | 1094.7 | 1254.9 | 1031.6 | 2148.2 |
| FADS2 | 170 | 228.2 | 161.8 | 130.5 | 140.8 | 134.2 | 154.7 | 218.5 |
| FADS3 | 152.3 | 157.5 | 97 | 91.7 | 91.4 | 84.6 | 142.1 | 163.3 |
| FADS6 | 130.5 | 145.5 | 97.1 | 86.2 | 81.7 | 92.5 | 134.1 | 157.5 |
| FAF1 | 1311.6 | 1691.3 | 707.5 | 719.1 | 664.4 | 937.6 | 1249.9 | 1584.6 |
| FAF1 | 1477.5 | 2315 | 654.5 | 420.7 | 340.4 | 672.6 | 1014 | 1565.3 |
| FAH | 1060.4 | 1530.6 | 583.2 | 543.5 | 467.4 | 776.7 | 1184.9 | 1757.4 |
| FAHD1 | 611.7 | 723.7 | 224.1 | 229 | 190.2 | 325.7 | 420.3 | 614.7 |
| FAHD1 | 346.6 | 515.8 | 169.6 | 153.5 | 121.3 | 167.8 | 339.3 | 507.3 |
| FAHD1 | 95 | 95.6 | 91.6 | 91.1 | 87.2 | 85.6 | 91.9 | 110.7 |
| FAHD2A | 157.4 | 192.9 | 116 | 109.8 | 121.5 | 121.5 | 141.8 | 155.7 |
| FAHD2B | 391.1 | 466.4 | 300.1 | 306.8 | 276 | 433.8 | 324.1 | 420.5 |
| FAIM | 122 | 145.3 | 94.8 | 89.7 | 80.8 | 87.2 | 119.8 | 169.9 |
| FAIM | 70.7 | 74.6 | 96.2 | 84.2 | 95 | 88.8 | 78.8 | 78 |
| FAIM | 112 | 142.2 | 97.8 | 92.2 | 79.4 | 91.4 | 111.7 | 126.7 |
| FAIM | 108.7 | 112.2 | 101.2 | 91 | 87.5 | 97.5 | 98.4 | 97.4 |
| FAIM | 513.9 | 601 | 313.9 | 179 | 176.5 | 233.1 | 334.3 | 442.1 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| FAIM2 | 83.4 | 96 | 105.4 | 93.5 | 85.4 | 96.8 | 94.6 | 90.5 |
| FAIM3 | 89.1 | 93.6 | 95.1 | 87.1 | 84.2 | 90 | 86.1 | 90.1 |
| FALZ | 99.2 | 109.7 | 103.5 | 103.8 | 93.7 | 101.5 | 97.3 | 96.6 |
| FALZ | 162.7 | 222.2 | 113.9 | 127.5 | 114.2 | 138.8 | 173.3 | 208.3 |
| FALZ | 97.8 | 111.4 | 93.4 | 101.9 | 102.4 | 127.6 | 92.4 | 104.9 |
| FAM100A | 140.4 | 183.3 | 246.8 | 176 | 157.9 | 234.6 | 139.1 | 260.4 |
| FAM100B | 154.7 | 235.3 | 175.3 | 149.2 | 139.5 | 184.4 | 203.5 | 349.3 |
| FAM101A | 97.5 | 130.8 | 94.3 | 87 | 78.9 | 85 | 119 | 124.5 |
| FAM101B | 365.4 | 543.2 | 288.1 | 432.2 | 285.1 | 275.8 | 379.2 | 612.7 |
| FAM102A | 179.1 | 198.6 | 115.7 | 116.7 | 113 | 110.6 | 143.6 | 167.8 |
| FAM102A | 85.9 | 101.9 | 89 | 96.3 | 89.6 | 88.3 | 80.8 | 99.1 |
| FAM102B | 674.8 | 904.2 | 259.5 | 280.2 | 189.7 | 418.9 | 714.8 | 1345.1 |
| FAM103A1 | 519.5 | 627.5 | 240.7 | 321 | 227.8 | 458.1 | 518.9 | 963.9 |
| FAM104A | 1537 | 2193.3 | 953 | 1005.9 | 860.6 | 1603.4 | 1312.7 | 1881 |
| FAM105A | 499.2 | 709.3 | 169.4 | 147.2 | 151.9 | 259.3 | 342.8 | 363.1 |
| FAM105B | 515.4 | 702.7 | 495.5 | 467.6 | 377.8 | 529.3 | 547.7 | 743.4 |
| FAM107A | 87.8 | 114.3 | 93 | 85.9 | 88.5 | 79 | 103.9 | 102.3 |
| FAM107B | 2260.4 | 3232.3 | 1189.1 | 1213 | 890.6 | 1060.3 | 1640 | 2069.2 |
| FAM108A1 | 75.9 | 88.9 | 80.1 | 79.9 | 73.3 | 81.2 | 72.2 | 78.5 |
| FAM108A2 | 590.8 | 923.2 | 513.5 | 287 | 291 | 203.3 | 497.9 | 466.9 |
| FAM108A2 | 232.7 | 292.5 | 152.7 | 103.1 | 106.2 | 112.6 | 194 | 270.1 |
| FAM109A | 98.4 | 125.2 | 111.9 | 108.7 | 110 | 118.1 | 103.7 | 136.1 |
| FAM109B | 83.1 | 88.6 | 115.3 | 103.1 | 102.7 | 99.3 | 89.5 | 83.5 |
| FAM10A4 | 123 | 164.9 | 84.2 | 84.4 | 73.5 | 81.2 | 104.9 | 132.6 |
| FAM10A6 | 85.8 | 90.2 | 103.1 | 94.2 | 90.9 | 84.9 | 85.2 | 85.5 |
| FAM10A7 | 463.8 | 596 | 167.9 | 156.6 | 133.1 | 213.5 | 346.6 | 566.4 |
| FAM110C | 100.4 | 101.6 | 90.4 | 87.2 | 83.4 | 81.6 | 96.3 | 94 |
| FAM111A | 2618.2 | 3082.4 | 1109.8 | 1038.6 | 962.2 | 1036.5 | 1739.9 | 2119.6 |
| FAM111A | 941.4 | 1233.3 | 643.2 | 636.2 | 586.6 | 947.1 | 649.6 | 891 |
| FAM111B | 163.6 | 197.2 | 119.4 | 118.1 | 97.4 | 118.2 | 155 | 172.7 |
| FAM112A | 112 | 124 | 101.8 | 85.1 | 90.8 | 89.3 | 114.1 | 115.5 |
| FAM112A | 68.8 | 75.2 | 97.8 | 86.9 | 80.9 | 83.5 | 71.7 | 75.3 |
| FAM112B | 5480.8 | 7115.9 | 1301 | 1194.4 | 906.1 | 1760.4 | 4941.3 | 6575.4 |
| FAM113A | 239.6 | 252.7 | 134.4 | 150.3 | 135.2 | 204.4 | 187.6 | 250 |
| FAM113B | 242.5 | 330.6 | 170.8 | 167.6 | 144.2 | 167.9 | 171.2 | 145.3 |
| FAM119A | 2422.4 | 2288.7 | 1353.9 | 1754.3 | 1334.4 | 1443.2 | 2162.9 | 4156.6 |
| FAM120A | 5211.1 | 5785.9 | 2016.3 | 2189.7 | 1428.4 | 1882.7 | 4449.7 | 7297.1 |
| FAM120C | 91.3 | 98.4 | 101.9 | 93.9 | 80.2 | 90.2 | 93.1 | 109.2 |
| FAM122A | 148.4 | 181.5 | 93.8 | 90.5 | 89.6 | 99 | 138.5 | 155.9 |
| FAM122B | 786.1 | 915.4 | 646.3 | 760.3 | 628.6 | 1333.8 | 512.7 | 931.2 |
| FAM122C | 98.4 | 121.9 | 109.6 | 92.3 | 97.6 | 99.5 | 109.7 | 119.6 |
| FAM123A | 87.8 | 94.4 | 97.3 | 91.5 | 83.8 | 85 | 82.3 | 98.6 |
| FAM125A | 1353.5 | 1802.8 | 722.1 | 373.3 | 318.5 | 353.6 | 1315.7 | 1280 |
| FAM125B | 145.9 | 166.4 | 110 | 98.2 | 94 | 99 | 131.9 | 161.5 |
| FAM125B | 70.8 | 76.9 | 85.1 | 85.4 | 85 | 91.7 | 74.2 | 79.9 |
| FAM126A | 73.9 | 84.9 | 96.8 | 90.4 | 83.6 | 81.4 | 75.7 | 83.9 |
| FAM126B | 79.2 | 85.1 | 97.5 | 87.5 | 82.4 | 83.7 | 81.3 | 86.6 |
| FAM127B | 91.5 | 101.9 | 94.5 | 98.7 | 94 | 99.9 | 96.6 | 97.9 |
| FAM127C | 135.7 | 148 | 102.3 | 91.8 | 83.2 | 99.4 | 125.4 | 154.9 |
| FAM129B | 112.2 | 124 | 105.2 | 85.3 | 83 | 86.1 | 96 | 116.1 |

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|----------|--------|--------|--------|--------|--------|-------|--------|--------|
| FAM129B | 135.9 | 151.8 | 144.3 | 103.7 | 90.9 | 107.7 | 143 | 223.3 |
| FAM12A | 102.9 | 123.2 | 135.5 | 115.1 | 115 | 118.6 | 102.7 | 105.4 |
| FAM12B | 94.4 | 94.1 | 104.1 | 96.4 | 107.8 | 94 | 91.8 | 104.9 |
| FAM130A1 | 160.3 | 176.8 | 152.8 | 163.6 | 148.1 | 180.3 | 155.2 | 283.1 |
| FAM130A2 | 71.7 | 81.7 | 98.6 | 86.8 | 82.7 | 96.4 | 76.4 | 83 |
| FAM13A1 | 106.5 | 113.2 | 86.3 | 89.9 | 73.3 | 79.6 | 122.9 | 119.5 |
| FAM13A1 | 92.8 | 110.6 | 93.3 | 89.4 | 83 | 81.7 | 104.8 | 113.7 |
| FAM13A1 | 95.7 | 110.1 | 101.9 | 88.7 | 79.9 | 88.4 | 98.9 | 118.7 |
| FAM13C1 | 91.9 | 108.9 | 85.6 | 85.7 | 79.3 | 86.2 | 90.7 | 100.7 |
| FAM13C1 | 72.3 | 82.7 | 84.7 | 80.4 | 79.9 | 86.1 | 77.9 | 84.2 |
| FAM13C1 | 86.5 | 87 | 86.2 | 87.1 | 73.4 | 78.2 | 88.3 | 94.5 |
| FAM14A | 798.9 | 936 | 253.1 | 215.5 | 207.9 | 221.3 | 788.8 | 842.9 |
| FAM14B | 164.7 | 205.7 | 127.4 | 105 | 106.3 | 112.4 | 173.8 | 174 |
| FAM18B | 336.1 | 435.7 | 148.9 | 151.7 | 127.7 | 203.5 | 316.6 | 555.8 |
| FAM18B | 546.9 | 681.4 | 274.9 | 332.7 | 267 | 489.3 | 490 | 1052.2 |
| FAM18B2 | 104.6 | 116.5 | 111.8 | 89.3 | 90.5 | 90.3 | 97.7 | 101.7 |
| FAM19A1 | 76 | 86.8 | 90.8 | 86 | 82.8 | 79.6 | 76.5 | 85 |
| FAM19A2 | 81.4 | 93.3 | 102.6 | 90.9 | 96.7 | 98.6 | 75.7 | 83.6 |
| FAM19A3 | 81.7 | 91.6 | 86.8 | 80.8 | 76 | 83.1 | 82.8 | 99.4 |
| FAM19A3 | 138.5 | 191.4 | 91.7 | 101.8 | 92.3 | 93.2 | 119.6 | 146.5 |
| FAM19A3 | 69.4 | 90.8 | 80.9 | 73 | 70 | 75 | 84 | 89.4 |
| FAM19A4 | 120.9 | 148.9 | 115.5 | 111.2 | 104.1 | 107.1 | 119.7 | 136.8 |
| FAM19A4 | 88 | 102 | 101 | 83.8 | 86.2 | 93.9 | 90.7 | 107.2 |
| FAM19A4 | 95 | 104.7 | 93.9 | 93.6 | 84.2 | 109.8 | 99.3 | 111.7 |
| FAM19A5 | 103.6 | 108.6 | 91.8 | 86.3 | 83.7 | 91.7 | 99.8 | 97.3 |
| FAM20A | 85.5 | 89.6 | 89.6 | 83.9 | 82 | 91.6 | 79.9 | 95.6 |
| FAM20B | 1271.2 | 1549.9 | 690.4 | 750.9 | 556.9 | 864 | 1006.4 | 1516.8 |
| FAM20C | 95.9 | 107.5 | 100.9 | 85.7 | 85.9 | 90.1 | 89.6 | 94.4 |
| FAM20C | 230.2 | 317.6 | 264.3 | 160.4 | 135.3 | 185.8 | 235.2 | 402.6 |
| FAM20C | 140.2 | 175.6 | 125.7 | 128.1 | 95.2 | 107 | 145.6 | 163.6 |
| FAM21C | 145.2 | 183.1 | 125.7 | 114.1 | 108.9 | 114.3 | 132.3 | 156 |
| FAM22G | 86 | 103 | 79.6 | 83.3 | 81.5 | 87.1 | 88.1 | 97.4 |
| FAM24A | 83.9 | 104.4 | 93.2 | 81.4 | 86.1 | 90 | 79.8 | 95.1 |
| FAM24B | 370 | 436.1 | 246.6 | 221 | 169 | 217.1 | 333.8 | 357 |
| FAM26B | 159 | 177.7 | 120.9 | 109.1 | 104.7 | 108 | 143.3 | 208.5 |
| FAM26C | 185.7 | 252.9 | 119.9 | 107.6 | 113.9 | 137.5 | 199.6 | 243.7 |
| FAM27L | 112.2 | 122 | 84 | 94.3 | 74.7 | 91.7 | 99.8 | 117.9 |
| FAM29A | 88.9 | 95 | 92.4 | 86.6 | 78.4 | 85.7 | 91.1 | 104.9 |
| FAM29A | 115.4 | 122.3 | 108.7 | 116.6 | 88.1 | 125.8 | 105.2 | 146.8 |
| FAM33A | 770.1 | 950.1 | 433.7 | 324.5 | 267.5 | 342 | 705 | 1031 |
| FAM35A | 314.5 | 423.4 | 155.3 | 144.3 | 128.5 | 226.2 | 247.5 | 411.7 |
| FAM36A | 444 | 521.1 | 147.7 | 181.9 | 130.7 | 167.6 | 391.2 | 580.6 |
| FAM38A | 870.2 | 1020.9 | 1456.8 | 1394.8 | 1316.4 | 2258 | 759.9 | 1210.4 |
| FAM38B | 142.3 | 170.6 | 141.2 | 132.9 | 128.4 | 131.9 | 141.8 | 155.1 |
| FAM3A | 873.2 | 988.4 | 722.3 | 679.2 | 576 | 703.3 | 802.6 | 1162.8 |
| FAM3B | 82.2 | 98.2 | 86.3 | 78.6 | 82.1 | 83.5 | 91.9 | 115.2 |
| FAM3B | 86.1 | 101.7 | 92.2 | 89.4 | 86.2 | 87.9 | 98.1 | 106.1 |
| FAM3C | 412.7 | 560.4 | 271.5 | 254.9 | 190.8 | 335.3 | 333.4 | 555.2 |
| FAM3C | 469.9 | 625.8 | 236.3 | 261.2 | 169 | 294.2 | 364.8 | 607.3 |
| FAM3D | 91.1 | 110.9 | 99.9 | 97.5 | 83.7 | 93.7 | 97.1 | 105.9 |

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| FAM40A | 363.9 | 428.1 | 214.9 | 166.3 | 147.6 | 164.9 | 342.4 | 387.8 |
| FAM40B | 240.4 | 270.9 | 145.9 | 246.1 | 247.3 | 174.2 | 223.4 | 260.4 |
| FAM43A | 1872.7 | 2217.6 | 1466.7 | 1278.7 | 1009 | 1466.5 | 1773.9 | 2161.2 |
| FAM43B | 84.9 | 113 | 99.4 | 90.2 | 88 | 94.1 | 99.3 | 96 |
| FAM44A | 84.2 | 92.1 | 94.9 | 88.3 | 75.7 | 88.9 | 93.7 | 87.3 |
| FAM44B | 992.3 | 1249.2 | 516.8 | 658.4 | 516.4 | 772.5 | 768.8 | 940.2 |
| FAM45A | 1571.9 | 1609.3 | 607 | 588.2 | 570.8 | 731.7 | 1479.9 | 2942.5 |
| FAM45B | 102.2 | 140.9 | 108.4 | 95.1 | 90 | 92.1 | 110.3 | 124 |
| FAM46A | 12692.1 | 17940.4 | 7778.8 | 11207.5 | 9785.1 | 13988.3 | 12062.9 | 13583.9 |
| FAM46B | 99.7 | 107.5 | 103.6 | 108.1 | 91.8 | 88 | 100.2 | 113.4 |
| FAM46C | 113.8 | 129.7 | 112.3 | 174.4 | 203 | 261.3 | 115.9 | 131.8 |
| FAM46D | 77.1 | 88.8 | 89.8 | 87.6 | 83.9 | 95.7 | 88.3 | 92.1 |
| FAM47A | 89.6 | 94.9 | 92.1 | 85.1 | 86.2 | 82.4 | 92.9 | 83.8 |
| FAM47B | 88.5 | 100.2 | 95.3 | 84.8 | 75.1 | 85.3 | 97 | 102 |
| FAM47C | 84.5 | 106.9 | 105 | 84.2 | 84.2 | 95.4 | 96.3 | 99.9 |
| FAM48A | 401.4 | 416.1 | 311.5 | 381.8 | 341.8 | 577.1 | 291.5 | 441.5 |
| FAM48A | 90.1 | 95.3 | 93.5 | 89.6 | 87.5 | 83.5 | 84.2 | 98.5 |
| FAM49A | 114.6 | 149.8 | 105.3 | 90.9 | 87.9 | 96.1 | 108.2 | 122.1 |
| FAM49B | 1109.3 | 1186.5 | 280.8 | 292.8 | 197.4 | 396.9 | 1075.7 | 2241.6 |
| FAM50A | 3120 | 3910.6 | 2557.8 | 2483.9 | 2283.7 | 2742.1 | 2468.2 | 2962.9 |
| FAM50B | 78.4 | 91.8 | 105.3 | 98.2 | 93.9 | 96.7 | 88.5 | 90.1 |
| FAM51A1 | 139.7 | 176.6 | 139.4 | 116.3 | 109.1 | 133.2 | 111.4 | 149 |
| FAM53A | 135.7 | 145.5 | 94.4 | 102.8 | 91.4 | 105 | 135.1 | 157.8 |
| FAM53B | 158.8 | 175.8 | 108.6 | 94.9 | 82.1 | 98.5 | 151.4 | 171.7 |
| FAM53C | 1528.5 | 2000.3 | 833.1 | 839.3 | 754.6 | 849.7 | 1371.6 | 1072.1 |
| FAM54A | 242.3 | 296.7 | 118.3 | 135.6 | 114.2 | 128.5 | 201.9 | 304.4 |
| FAM55A | 81.5 | 73.4 | 96.7 | 83.9 | 79 | 86.8 | 83.4 | 78.2 |
| FAM55B | 75.8 | 86.9 | 91 | 81.8 | 76.4 | 86.6 | 80.1 | 74.3 |
| FAM55C | 277.2 | 411.8 | 193.6 | 199 | 152.9 | 151.4 | 236.3 | 303.6 |
| FAM55D | 96.1 | 101 | 87.8 | 83.4 | 89 | 87.2 | 90.6 | 94.9 |
| FAM55D | 91.1 | 95.1 | 92.4 | 91.7 | 85.6 | 91.2 | 98.2 | 98.7 |
| FAM55D | 80.6 | 86.2 | 96.5 | 80.5 | 77.9 | 84 | 86.8 | 89.4 |
| FAM57A | 269.1 | 324.6 | 282.4 | 155.5 | 157 | 171.3 | 236.3 | 352.4 |
| FAM58A | 946.5 | 1176 | 788.1 | 598.3 | 509.9 | 618.3 | 1014.4 | 1207 |
| FAM59A | 129.8 | 140.8 | 112.6 | 112.1 | 101.9 | 116.5 | 117.7 | 139.7 |
| FAM5B | 106.1 | 126.6 | 96.6 | 95 | 81.7 | 89.7 | 108.3 | 111.7 |
| FAM5C | 107.6 | 138.2 | 93 | 87.9 | 88.9 | 88 | 113.9 | 129.2 |
| FAM62A | 1296.7 | 1763 | 991 | 1195.7 | 917 | 1505.7 | 1058.7 | 1797.5 |
| FAM62B | 2429.8 | 3629.2 | 4103.4 | 5426.7 | 4416.2 | 6267.4 | 2257.9 | 3321.7 |
| FAM62C | 126.4 | 137 | 124.1 | 102.1 | 99.6 | 115.6 | 99.1 | 139.4 |
| FAM63A | 442.7 | 441.1 | 341 | 405.8 | 314.2 | 352.8 | 420 | 812.6 |
| FAM63B | 149.2 | 196.3 | 98.7 | 101.9 | 99.7 | 105.4 | 148.6 | 176.9 |
| FAM64A | 387.2 | 442.9 | 343.2 | 141.5 | 127.4 | 151.6 | 324.7 | 451.4 |
| FAM65A | 990.7 | 1257.4 | 715.4 | 578.3 | 540.9 | 612.5 | 792.9 | 700.8 |
| FAM69A | 206.2 | 248.3 | 154.7 | 147.8 | 132.4 | 141.2 | 171.8 | 189.5 |
| FAM69B | 898.7 | 1088.9 | 483.2 | 424.6 | 355.8 | 463 | 678.6 | 714.3 |
| FAM69B | 123.5 | 141.1 | 91 | 77.2 | 74.3 | 84 | 114.4 | 160.8 |
| FAM70A | 80.1 | 76.2 | 94.2 | 83 | 82.8 | 80 | 85.2 | 83.2 |
| FAM70B | 100.8 | 116 | 97.8 | 104.3 | 87.9 | 87.7 | 100.4 | 103.9 |
| FAM71A | 106.5 | 116.2 | 94.4 | 90.5 | 84.1 | 95.5 | 111.6 | 92.7 |

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| FAM71C | 91.4 | 99.3 | 108 | 88.9 | 95.1 | 92.2 | 91.6 | 99.4 |
| FAM72A | 1050.7 | 1108.7 | 223.1 | 228.9 | 169.7 | 241 | 917.8 | 1696.1 |
| FAM73A | 113.2 | 115.2 | 94.9 | 85.7 | 85.1 | 87.7 | 110.1 | 115.1 |
| FAM73B | 155.6 | 179.6 | 155.1 | 139.3 | 134.4 | 208.7 | 139.1 | 220.2 |
| FAM76A | 97.6 | 128 | 107 | 102.6 | 96.9 | 108.8 | 106.3 | 117.3 |
| FAM76B | 292.1 | 380.3 | 226.3 | 232.1 | 194.3 | 343.8 | 210.4 | 522.2 |
| FAM77C | 99.9 | 115.5 | 91.3 | 94.1 | 88.3 | 88.1 | 108.5 | 104.5 |
| FAM77D | 112.1 | 155.8 | 106.5 | 103 | 99.3 | 101.9 | 120.2 | 130.5 |
| FAM78A | 114.4 | 139.5 | 156.8 | 124.1 | 117.2 | 141 | 110.3 | 156 |
| FAM78B | 86.9 | 103.9 | 94.9 | 99.3 | 94.2 | 92.8 | 86.1 | 95.9 |
| FAM79A | 1024.6 | 1385.7 | 614.6 | 664.7 | 661.5 | 725.1 | 952 | 1012.2 |
| FAM79B | 81 | 94.2 | 111.4 | 96.6 | 96.8 | 95.2 | 87.1 | 88.7 |
| FAM7A2 | 481 | 476.9 | 186.4 | 292.7 | 285.5 | 192.4 | 305.4 | 406.5 |
| FAM80A | 121.6 | 142.4 | 111.2 | 103.9 | 107.2 | 119.6 | 131.2 | 146.9 |
| FAM80B | 96.9 | 95.2 | 102.5 | 102.5 | 86.4 | 122.3 | 93.4 | 106.3 |
| FAM81A | 163.2 | 180.6 | 140.3 | 99.3 | 88.9 | 110.3 | 112.5 | 163.3 |
| FAM81B | 142 | 171.4 | 103.5 | 96.7 | 91.8 | 91.3 | 136.3 | 147.3 |
| FAM82A | 80.1 | 88.9 | 95.8 | 94.2 | 93.8 | 92.4 | 80 | 87 |
| FAM82C | 750.9 | 959.7 | 480 | 552.8 | 393.8 | 713.3 | 678.5 | 1313.5 |
| FAM83A | 78.6 | 92.1 | 96.8 | 90.3 | 83.5 | 86.5 | 78.5 | 90.9 |
| FAM83A | 84.4 | 98.2 | 93.8 | 86.9 | 83.3 | 84.2 | 95.8 | 93.4 |
| FAM83A | 85.8 | 91.1 | 98 | 96.7 | 84.1 | 92.1 | 80.8 | 88.7 |
| FAM83E | 79 | 93.8 | 89.4 | 81.1 | 77.1 | 88 | 85.6 | 101.7 |
| FAM83F | 108.6 | 139.9 | 92.2 | 90.2 | 89.9 | 86.2 | 112.7 | 129.5 |
| FAM83G | 94.6 | 101.1 | 99.7 | 87.1 | 87.2 | 82.3 | 97.6 | 111.8 |
| FAM84A | 99.9 | 113 | 104.5 | 84.8 | 86.9 | 94.5 | 105.5 | 110.4 |
| FAM84B | 286.8 | 400.2 | 283.1 | 244.2 | 202.1 | 293.1 | 357.2 | 520.5 |
| FAM86A | 710.9 | 879.5 | 396.7 | 241.6 | 161.8 | 294.2 | 512.5 | 842 |
| FAM86A | 412.4 | 500.3 | 228.1 | 141 | 116.8 | 155.5 | 276 | 285.2 |
| FAM89A | 405 | 539.5 | 264 | 233 | 202.2 | 271.9 | 399.8 | 503 |
| FAM89A | 1037.8 | 1372.6 | 932.4 | 816.3 | 647.1 | 1172.5 | 1153.7 | 1736.6 |
| FAM89B | 348.8 | 455.8 | 339.9 | 217.4 | 213 | 263 | 321 | 502.1 |
| FAM8A1 | 153.3 | 167.3 | 131.5 | 126.2 | 110.9 | 137.2 | 141.8 | 188.6 |
| FAM90A1 | 95.9 | 104.4 | 107.9 | 105.8 | 110.2 | 109.8 | 93.8 | 108.4 |
| FAM91A1 | 418.6 | 513.5 | 231.4 | 187.2 | 162.3 | 254.1 | 301.1 | 463.9 |
| FAM92B | 101.2 | 108.8 | 83.5 | 79.5 | 73.8 | 81.4 | 91.6 | 124.5 |
| FAM96A | 8072 | 8790.9 | 5473.9 | 5817.4 | 4958.7 | 6151.3 | 7034.2 | 10129.7 |
| FAM96A | 1903 | 2363.1 | 447.6 | 267.6 | 287.3 | 531.1 | 1802 | 2521.6 |
| FAM96B | 1710.4 | 2144.1 | 1238.2 | 794.5 | 801.4 | 735.5 | 1717.6 | 1815.7 |
| FAM98A | 1206 | 1304.5 | 507.8 | 459.6 | 273 | 504.8 | 1000.5 | 1552.5 |
| FAM98B | 106.3 | 124.2 | 84.6 | 90.6 | 79.6 | 86.4 | 98.9 | 122.8 |
| FAM98B | 103.5 | 153.3 | 108.9 | 186.1 | 149.8 | 119.8 | 125.2 | 119.9 |
| FAM98C | 202.5 | 229.8 | 189.6 | 138.6 | 148.7 | 179 | 172.2 | 198.9 |
| FAM9A | 69.5 | 70.2 | 88.2 | 89.5 | 81.8 | 83 | 83.1 | 79.3 |
| FAM9B | 76.1 | 81.2 | 93.5 | 90.9 | 79.6 | 84 | 79.5 | 80.5 |
| FAM9C | 100.7 | 119.8 | 105 | 89.7 | 99.7 | 99.5 | 106.4 | 112.3 |
| FANCA | 94.1 | 119.9 | 114 | 99.6 | 98.8 | 103.8 | 86.6 | 108.8 |
| FANCA | 100.7 | 131.3 | 94.4 | 91.4 | 82.9 | 88.6 | 93.4 | 124.6 |
| FANCA | 93.3 | 123 | 100.6 | 98.3 | 97.8 | 93 | 92.3 | 101.5 |
| FANCB | 319.2 | 394.5 | 133.5 | 162.3 | 138.1 | 150.2 | 264.7 | 368.2 |

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|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| FANCB | 192.8 | 257.3 | 146.2 | 125.5 | 138.2 | 127.3 | 166.7 | 252 |
| FANCC | 156.6 | 176.1 | 95.2 | 95.1 | 96.1 | 95.4 | 134.3 | 144.2 |
| FANCD2 | 1443.6 | 1560.5 | 853.7 | 935.5 | 1004.8 | 1105.9 | 1042.9 | 1264.7 |
| FANCD2 | 142.8 | 143 | 125.9 | 116.1 | 116.3 | 108.4 | 121.1 | 145.6 |
| FANCD2 | 212.2 | 287.5 | 145.3 | 142.4 | 113.7 | 133.4 | 201.9 | 228.2 |
| FANCE | 946.7 | 1293.7 | 512.8 | 653.9 | 640 | 769 | 684.6 | 630.3 |
| FANCF | 104.3 | 123.2 | 103 | 98.4 | 82.7 | 100.6 | 107 | 121.1 |
| FANCG | 1296.4 | 1652.7 | 712.7 | 398.5 | 346.4 | 320.4 | 888.5 | 977 |
| FANCL | 79 | 84.3 | 110.9 | 98.7 | 90.5 | 106.1 | 84.5 | 80.8 |
| FANCM | 110.6 | 154.6 | 94.7 | 90.4 | 81.7 | 89.9 | 115.7 | 128.6 |
| FANK1 | 109.2 | 129.5 | 98.6 | 100.6 | 91.8 | 98.8 | 114.9 | 110 |
| FAP | 80.1 | 88.1 | 117.8 | 101.9 | 94.4 | 103.6 | 72.5 | 87.7 |
| FARP1 | 95.4 | 100.1 | 100.2 | 94.4 | 88.3 | 86.7 | 102.2 | 103 |
| FARP1 | 113.7 | 121 | 88.6 | 84.1 | 89.4 | 87.5 | 97.4 | 115.5 |
| FARP1 | 131.1 | 143.2 | 132.8 | 97.1 | 101.5 | 91.8 | 109.8 | 113.2 |
| FARP2 | 99.2 | 112.1 | 124 | 124.8 | 117.5 | 114.8 | 92.8 | 100.7 |
| FARS2 | 451.1 | 689 | 357.6 | 321 | 261.6 | 371.9 | 378.4 | 511.8 |
| FARSB | 133.3 | 126.1 | 133.5 | 140.5 | 129.8 | 126 | 119.9 | 131 |
| FARSLA | 734 | 836.8 | 559.2 | 291.6 | 275.2 | 332.4 | 626 | 790.5 |
| FAS | 93.3 | 104 | 89.9 | 89.4 | 78.2 | 94.2 | 94.3 | 88.9 |
| FAS | 73.3 | 81.3 | 89.1 | 86.4 | 76.4 | 82.3 | 80.4 | 100.3 |
| FASLG | 100.9 | 124.9 | 101.5 | 88.5 | 98.9 | 88.5 | 107.9 | 105.7 |
| FASN | 7719.7 | 9292.7 | 7584.9 | 6120.1 | 5881.6 | 6645.8 | 6258.7 | 7610.4 |
| FASTK | 887.4 | 1003.3 | 391.5 | 410.8 | 321.5 | 416.9 | 624.5 | 752.1 |
| FASTK | 327.5 | 408.4 | 270 | 196.1 | 168 | 149.6 | 226.1 | 349.3 |
| FASTK | 272.1 | 336.2 | 232.6 | 208.6 | 194.2 | 256.7 | 234.9 | 393.8 |
| FASTKD2 | 253.1 | 333.7 | 193.6 | 159.8 | 117.9 | 176.1 | 201.5 | 289.3 |
| FASTKD3 | 458 | 559.6 | 286.1 | 249.7 | 191.1 | 317 | 284.7 | 465.7 |
| FAT | 710.1 | 1047.6 | 365.7 | 601.4 | 469.9 | 762.5 | 761.6 | 1052.9 |
| FAT2 | 67.6 | 70.6 | 89 | 85.4 | 77 | 83.9 | 70.4 | 76.2 |
| FAT4 | 122.4 | 145.8 | 83.6 | 100.8 | 89.7 | 85 | 102.1 | 157.6 |
| FATE1 | 97.1 | 115.1 | 104.9 | 87.7 | 78.3 | 84.7 | 105.7 | 117.3 |
| FAU | 18903.3 | 23036.5 | 15885.6 | 12195.1 | 10555.3 | 14268.8 | 16048 | 18731.5 |
| FBF1 | 122.4 | 119.9 | 113.9 | 96.7 | 94.1 | 98.6 | 100.8 | 111.9 |
| FBL | 4767.1 | 6490.5 | 2846 | 1859 | 1531.1 | 2002.6 | 4373.3 | 4452.7 |
| FBLIM1 | 110.4 | 122.1 | 84.7 | 87.6 | 81.5 | 79.3 | 102.5 | 105.5 |
| FBLIM1 | 97.1 | 111.1 | 111.7 | 97.6 | 101.6 | 96.1 | 86.1 | 98.1 |
| FBLN1 | 100.3 | 113.6 | 94.1 | 96 | 74 | 85.7 | 89.6 | 91.6 |
| FBLN1 | 100.9 | 124.8 | 116.2 | 101.5 | 98.9 | 91.7 | 102 | 127.4 |
| FBLN1 | 427.5 | 598.3 | 313 | 135.7 | 125 | 146.4 | 323.4 | 353.5 |
| FBLN1 | 85.3 | 92.1 | 85.9 | 87.4 | 84.4 | 81.2 | 87.8 | 85.4 |
| FBLN1 | 119.8 | 143.5 | 105.7 | 90.9 | 82.3 | 93.4 | 119.7 | 120.6 |
| FBLN2 | 64.9 | 79.8 | 88 | 91.5 | 80.1 | 87 | 72.3 | 78.7 |
| FBLN2 | 107.1 | 134 | 96 | 85.8 | 81.7 | 89.4 | 108.1 | 123.2 |
| FBLN2 | 102 | 115.8 | 95.5 | 90.7 | 85.8 | 87.1 | 115.1 | 123.1 |
| FBLN5 | 132.9 | 159.3 | 108.1 | 99.7 | 98.5 | 104.2 | 111.6 | 137.8 |
| FBN1 | 107.6 | 116.2 | 104.3 | 95.3 | 92.4 | 85.8 | 103.7 | 124.2 |
| FBN2 | 529.1 | 874.1 | 563.5 | 1165.8 | 907.3 | 1103.7 | 486.6 | 604.2 |
| FBN3 | 88.5 | 98.6 | 99.7 | 99.5 | 88.8 | 101.5 | 87.1 | 86.2 |
| FBP1 | 656.3 | 815.9 | 508.2 | 353 | 252 | 341.2 | 502.9 | 615.8 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| FBP2 | 80.4 | 82.9 | 99.7 | 96.5 | 93 | 87.1 | 81.9 | 82.6 |
| FBS1 | 123.3 | 133.5 | 132.3 | 123 | 110.7 | 134.2 | 121.1 | 159.3 |
| FBXL10 | 125 | 134.1 | 91.2 | 79.3 | 84.5 | 82.4 | 108.3 | 145.9 |
| FBXL10 | 3172.3 | 4123.9 | 2148.2 | 2867.4 | 2685.6 | 3814.1 | 2709.3 | 3537.3 |
| FBXL10 | 116.4 | 148.7 | 94.4 | 99.1 | 88.1 | 92.4 | 102.3 | 121.7 |
| FBXL12 | 284.3 | 347.9 | 151.3 | 140.1 | 118.5 | 131.8 | 243.7 | 298.9 |
| FBXL13 | 95.3 | 118.6 | 94.3 | 85.2 | 92.7 | 102 | 101 | 103.5 |
| FBXL14 | 84.8 | 81.1 | 88 | 98.5 | 93.8 | 90.7 | 84.2 | 91.2 |
| FBXL15 | 304.9 | 393.1 | 301 | 210.1 | 214.5 | 264.3 | 245 | 304.3 |
| FBXL16 | 83.3 | 92.2 | 103.7 | 96.5 | 83.5 | 85.3 | 91.6 | 90.8 |
| FBXL17 | 160.2 | 183 | 115.7 | 108.5 | 95.2 | 145.2 | 121.9 | 170.3 |
| FBXL18 | 106.8 | 122.6 | 91.1 | 87.5 | 86.3 | 88.1 | 107 | 118.2 |
| FBXL2 | 115.7 | 134.8 | 105.6 | 92.3 | 86.8 | 102.9 | 104.2 | 121.9 |
| FBXL20 | 441.2 | 598.8 | 265.4 | 241.1 | 243.5 | 294.6 | 381.2 | 366.7 |
| FBXL21 | 159.9 | 183.9 | 95 | 106.6 | 80.9 | 92.6 | 152.6 | 160.7 |
| FBXL22 | 84.7 | 78.9 | 82.9 | 89.8 | 86 | 92.7 | 75.9 | 81.5 |
| FBXL3 | 85.7 | 97.4 | 83 | 93.2 | 84.1 | 76.7 | 85.2 | 108.1 |
| FBXL4 | 83.5 | 77.7 | 100.1 | 94.3 | 91.8 | 88.4 | 75.5 | 80.4 |
| FBXL5 | 98.6 | 107.6 | 90.9 | 84.9 | 75.1 | 86.4 | 99.1 | 95.2 |
| FBXL5 | 200.5 | 237.1 | 123.1 | 120.3 | 109.9 | 119.6 | 179.6 | 269.3 |
| FBXL5 | 921.5 | 1200.7 | 597.3 | 557 | 440 | 851.8 | 726.6 | 1086.3 |
| FBXL6 | 633.9 | 688.1 | 598.4 | 315.5 | 290.3 | 498.1 | 402.2 | 711.4 |
| FBXL7 | 123.1 | 164.1 | 96.2 | 94.8 | 82.7 | 97.3 | 111.8 | 172.9 |
| FBXL8 | 102.4 | 107.6 | 101.1 | 101.7 | 84.9 | 102.3 | 99 | 113.7 |
| FBXO10 | 86.4 | 93.9 | 94.6 | 95.1 | 93.1 | 89.6 | 80.6 | 102.7 |
| FBXO10 | 134.1 | 154.3 | 172.6 | 140.6 | 121.4 | 148.3 | 121.6 | 216 |
| FBXO11 | 206.1 | 242.9 | 155.6 | 180 | 135.8 | 186.5 | 177.2 | 204.1 |
| FBXO11 | 1326.1 | 1860.7 | 714.7 | 956.8 | 841.6 | 1577.7 | 1167.2 | 1665.2 |
| FBXO11 | 126.1 | 130.7 | 105.7 | 91.7 | 95.9 | 98.9 | 117.9 | 143 |
| FBXO11 | 180 | 278.8 | 169.1 | 168.1 | 164.2 | 205 | 161.9 | 242.4 |
| FBXO15 | 448.4 | 587.8 | 344.8 | 176.5 | 154.7 | 172.9 | 428.5 | 458.5 |
| FBXO16 | 129.2 | 135.1 | 102 | 103.5 | 102.8 | 95.6 | 110.3 | 137.6 |
| FBXO17 | 74.7 | 85.5 | 81.5 | 78.2 | 76.6 | 73.8 | 68.4 | 81.3 |
| FBXO17 | 136.6 | 133.9 | 96.4 | 78.4 | 81.7 | 88.3 | 121.3 | 147.6 |
| FBXO17 | 84 | 94.2 | 97.5 | 78.3 | 75.8 | 86.7 | 80 | 90.6 |
| FBXO18 | 102.8 | 113.1 | 100.2 | 95.7 | 85.1 | 96.4 | 102.2 | 100.9 |
| FBXO18 | 598 | 743 | 409.1 | 355.2 | 308.8 | 426.3 | 538.5 | 524.2 |
| FBXO2 | 106.2 | 112.2 | 95.1 | 88.6 | 88.1 | 91 | 106.4 | 105.4 |
| FBXO21 | 191.3 | 235.8 | 131.4 | 133 | 131.8 | 140.2 | 194.7 | 230.9 |
| FBXO21 | 632.7 | 849.8 | 404.5 | 375.2 | 294.2 | 393.2 | 555.7 | 764.4 |
| FBXO22 | 215.5 | 251.7 | 157.2 | 144.4 | 130.6 | 153 | 181.3 | 243 |
| FBXO22 | 72.8 | 83.8 | 83.6 | 74.8 | 75.2 | 81.9 | 77 | 75.7 |
| FBXO22 | 758.1 | 1034.2 | 393.6 | 318.3 | 255.1 | 432.2 | 542.2 | 655.8 |
| FBXO22OS | 91.1 | 100.9 | 102.4 | 96.6 | 94.2 | 101 | 101.1 | 120.2 |
| FBXO24 | 108.8 | 119.9 | 94.8 | 99.8 | 86.5 | 88.6 | 101.7 | 117.6 |
| FBXO24 | 89.4 | 113.2 | 97.8 | 93.8 | 85.1 | 94.8 | 89.2 | 102.3 |
| FBXO24 | 87.4 | 110.8 | 97.2 | 101.2 | 90.5 | 93.6 | 90.5 | 89.9 |
| FBXO25 | 102.5 | 108.6 | 84.3 | 77.5 | 78.1 | 77.7 | 108 | 121.6 |
| FBXO27 | 89.5 | 89.7 | 92.8 | 91.8 | 85.9 | 90 | 90.1 | 85.9 |
| FBXO28 | 1927.8 | 2755.5 | 986.1 | 814 | 618.3 | 972.9 | 1756.9 | 2634.8 |

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|--------|--------|--------|-------|--------|-------|--------|--------|--------|
| FBXO3 | 83.4 | 107 | 104.2 | 98.1 | 86.8 | 101.2 | 104.8 | 105.8 |
| FBXO3 | 520.4 | 696.4 | 247.1 | 180.8 | 170.5 | 262 | 391.5 | 553 |
| FBXO3 | 152.9 | 179.4 | 138.3 | 109.7 | 107.4 | 111 | 122.4 | 165.3 |
| FBXO30 | 192.1 | 230.7 | 145 | 159.4 | 141.7 | 209.4 | 301.1 | 685.1 |
| FBXO31 | 293.2 | 371.5 | 273.1 | 230.3 | 181.9 | 254.3 | 289.8 | 444.2 |
| FBXO32 | 171.1 | 193.2 | 113.6 | 111.1 | 106.8 | 110.5 | 156.9 | 192.7 |
| FBXO32 | 93.9 | 103.2 | 109 | 105.1 | 90.8 | 96 | 96.2 | 106.5 |
| FBXO32 | 179.5 | 214.8 | 149.7 | 152.8 | 138.6 | 201.3 | 177.7 | 233.2 |
| FBXO33 | 1076.5 | 1362.7 | 814.9 | 817.7 | 599 | 949.4 | 1076.1 | 1540.3 |
| FBXO34 | 542.3 | 681.2 | 435.1 | 405.8 | 341.1 | 642.6 | 420.5 | 779.3 |
| FBXO36 | 107.6 | 125.4 | 82.5 | 80.2 | 85.2 | 81.5 | 111.5 | 114.6 |
| FBXO38 | 113.6 | 133 | 111.3 | 98.6 | 88.7 | 100.5 | 109.3 | 116.3 |
| FBXO38 | 165 | 184.7 | 115.1 | 122.7 | 116.1 | 148.8 | 173.8 | 244.5 |
| FBXO39 | 84.7 | 90.3 | 91.6 | 80.2 | 90.5 | 88.3 | 84.8 | 89.5 |
| FBXO4 | 1441.9 | 1946.1 | 978.9 | 707.2 | 562 | 1137.7 | 962.2 | 1376.1 |
| FBXO4 | 330.5 | 493 | 131.4 | 143.4 | 111.3 | 157.7 | 274.3 | 411.4 |
| FBXO40 | 116.9 | 139 | 94 | 84.9 | 80.9 | 86 | 111.4 | 128.3 |
| FBXO42 | 102.3 | 157.3 | 90.7 | 87.1 | 76.6 | 91.5 | 105.4 | 165.1 |
| FBXO43 | 172.3 | 190.9 | 131.4 | 102.3 | 115.6 | 124.1 | 136.5 | 142.5 |
| FBXO43 | 182.6 | 204.5 | 147.3 | 126.9 | 129.1 | 133.4 | 131.5 | 144.5 |
| FBXO44 | 100.9 | 121.3 | 109.9 | 104.2 | 103.6 | 100.7 | 96.9 | 113.7 |
| FBXO44 | 125.3 | 134.3 | 97.9 | 86.4 | 90 | 93.5 | 111.4 | 135.3 |
| FBXO44 | 78.7 | 86.7 | 89.5 | 76.7 | 82.9 | 79.7 | 76.2 | 86.5 |
| FBXO46 | 143.7 | 199.7 | 171 | 158.9 | 144.1 | 156 | 157.9 | 207.1 |
| FBXO47 | 72.9 | 76.4 | 90.7 | 87.3 | 84.8 | 85.9 | 76.2 | 77.8 |
| FBXO5 | 202.3 | 239.7 | 133.3 | 161.2 | 144.2 | 202 | 178.4 | 259.1 |
| FBXO6 | 400.8 | 546.4 | 231.4 | 253.9 | 222.4 | 256.3 | 324.7 | 341.1 |
| FBXO7 | 606.9 | 738.6 | 295.4 | 196.1 | 157.2 | 185.3 | 450.7 | 564.4 |
| FBXO7 | 171.4 | 211 | 117.7 | 97.1 | 94.7 | 106.1 | 153.2 | 173.2 |
| FBXO7 | 944.6 | 1269.3 | 651.3 | 589.2 | 472.2 | 830.4 | 818.9 | 1124.1 |
| FBXO8 | 421.7 | 596.2 | 208.3 | 228.6 | 205.1 | 267 | 413.6 | 646.5 |
| FBXO9 | 91.5 | 99.7 | 89.2 | 87.1 | 88.1 | 90.9 | 86.8 | 88.7 |
| FBXO9 | 380.2 | 495.2 | 171.6 | 136.7 | 123.2 | 119.2 | 308.3 | 304.6 |
| FBXO9 | 97.6 | 124.4 | 95.7 | 83.9 | 84 | 89.2 | 105 | 116.1 |
| FBXO9 | 108.1 | 110.2 | 97.1 | 82.6 | 82.2 | 83.5 | 90.6 | 103.8 |
| FBXW10 | 110.3 | 123.5 | 86 | 83.2 | 81.9 | 87 | 98.6 | 107.1 |
| FBXW11 | 82.3 | 88.1 | 92.1 | 93.3 | 80.2 | 89.1 | 79.3 | 90.5 |
| FBXW11 | 97.1 | 106.7 | 87.2 | 89.5 | 86.4 | 85.7 | 103.9 | 109 |
| FBXW11 | 1146.2 | 1349.4 | 832.9 | 1009.5 | 773.9 | 1157.8 | 902 | 1621.1 |
| FBXW12 | 86.9 | 106 | 94.2 | 82.8 | 78.6 | 74.7 | 90.9 | 88 |
| FBXW2 | 258.2 | 365.4 | 214.9 | 201.4 | 188.7 | 241.4 | 235.1 | 315 |
| FBXW4 | 360.4 | 449.6 | 252.2 | 196 | 192.7 | 188.5 | 299.9 | 344 |
| FBXW5 | 496.8 | 660.1 | 431.6 | 352.6 | 335.6 | 473.8 | 445.6 | 896.2 |
| FBXW7 | 216.9 | 235 | 139.8 | 145.1 | 127 | 125.3 | 193.2 | 212.7 |
| FBXW7 | 115.8 | 126.4 | 100 | 90.7 | 88.2 | 97.5 | 103.8 | 131 |
| FBXW7 | 559.5 | 592.4 | 271.9 | 326.1 | 239.7 | 403.9 | 446 | 868.3 |
| FBXW7 | 68.4 | 84.7 | 91.3 | 82.1 | 78.8 | 82.3 | 80.7 | 82.9 |
| FBXW8 | 81.7 | 93.9 | 111.2 | 99.8 | 91.1 | 92 | 80.4 | 88.7 |
| FBXW8 | 97.3 | 95 | 105.8 | 103 | 95.3 | 96.5 | 91.2 | 90.1 |
| FBXW8 | 419.6 | 413.9 | 214.6 | 228.6 | 171.4 | 215.6 | 368.2 | 366.3 |

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|--------|--------|---------|--------|--------|--------|--------|---------|---------|
| FBXW9 | 409.8 | 551.3 | 281.4 | 209.7 | 182.2 | 222.1 | 279.2 | 268.9 |
| FCAMR | 109.5 | 131 | 89.2 | 91.8 | 89.5 | 90.2 | 104.2 | 130.2 |
| FCAR | 497.2 | 463.6 | 440.5 | 658.8 | 601.7 | 481 | 554.9 | 974.1 |
| FCAR | 109.3 | 111.2 | 98.8 | 83.4 | 82.3 | 81 | 98.1 | 99.2 |
| FCAR | 92.8 | 97.2 | 98.7 | 98.5 | 103.1 | 98.1 | 86.7 | 90 |
| FCER1G | 11910 | 15217.3 | 9275.5 | 8566.4 | 5941.9 | 9223.7 | 10595.1 | 12807.4 |
| FCER2 | 112.1 | 140.8 | 119.8 | 86.7 | 86.9 | 104.8 | 125.1 | 143.1 |
| FCF1 | 288.6 | 369 | 179.8 | 136.1 | 124.5 | 102.9 | 230.6 | 348.4 |
| FCGBP | 121.6 | 142.6 | 86.3 | 90.8 | 83.9 | 92.4 | 117.7 | 141 |
| FCGBP | 90.7 | 93.1 | 101.9 | 91.3 | 109.3 | 97.3 | 82.2 | 98.1 |
| FCGR1A | 1536.7 | 2291.2 | 592.4 | 316.9 | 252.7 | 417.5 | 1178.8 | 1424.1 |
| FCGR1B | 3545.5 | 4509.8 | 1715.2 | 840.6 | 625.6 | 1005.7 | 2209.9 | 2482.2 |
| FCGR1B | 3239.4 | 4351.2 | 1792 | 931.9 | 667.9 | 1216.9 | 2243 | 2276.5 |
| FCGR2A | 652 | 928.6 | 260.1 | 292.2 | 205.7 | 333.3 | 478.5 | 704.8 |
| FCGR2A | 573.7 | 829.4 | 279.8 | 250.3 | 211.4 | 196.8 | 444.4 | 508.8 |
| FCGR2B | 114.8 | 123.2 | 104.7 | 142.6 | 116.2 | 193.8 | 100.9 | 120.1 |
| FCGR2C | 90 | 109.3 | 90.2 | 79.2 | 80.2 | 85.5 | 93.9 | 87.4 |
| FCGR3A | 81 | 95.9 | 84.5 | 82 | 85.5 | 87.7 | 80.8 | 88.3 |
| FCGR3B | 138.5 | 180.9 | 118.4 | 112 | 99 | 117.9 | 126.9 | 174.3 |
| FCGRT | 2163.8 | 2755 | 1861.3 | 1761.1 | 1533.2 | 2623.8 | 1839.9 | 2909.8 |
| FCHO1 | 159.3 | 204.4 | 168.2 | 123.9 | 108.8 | 143 | 145.6 | 178.5 |
| FCHO2 | 178.5 | 184.8 | 125.8 | 111.2 | 106.2 | 145.5 | 169.5 | 233.3 |
| FCHSD1 | 105.4 | 114.8 | 87.8 | 90.8 | 83.9 | 96 | 111.7 | 105.8 |
| FCHSD2 | 396.7 | 568.6 | 287 | 262.9 | 265 | 367.4 | 306.3 | 373.6 |
| FCMD | 8152.3 | 8812.4 | 3758.1 | 3866.1 | 4423.4 | 4311.4 | 7200.3 | 8720.8 |
| FCMD | 129.8 | 163.5 | 123.9 | 100.8 | 87.3 | 98 | 112.3 | 126.6 |
| FCN1 | 98.9 | 102.1 | 98.8 | 84.7 | 88.7 | 93.4 | 102.7 | 106.5 |
| FCN2 | 86.7 | 98 | 86.2 | 83.1 | 87.2 | 88.1 | 89 | 107 |
| FCN2 | 114 | 115.4 | 88.4 | 92.9 | 79.7 | 84 | 112.3 | 108.6 |
| FCN3 | 100.7 | 115 | 85.3 | 86.1 | 72.6 | 82.4 | 100.5 | 117.3 |
| FCN3 | 110 | 134 | 85.3 | 77.1 | 70.3 | 81 | 110.4 | 126.1 |
| FCRL1 | 91.5 | 95.7 | 92.2 | 86.8 | 77.9 | 91.5 | 98.3 | 92 |
| FCRL2 | 90.6 | 98.5 | 79.7 | 76 | 87.6 | 89.9 | 83.6 | 93.8 |
| FCRL2 | 95 | 108.9 | 116 | 101.2 | 105.1 | 102.6 | 92.3 | 94.5 |
| FCRL2 | 82.6 | 98.2 | 100.7 | 82.8 | 85.5 | 84 | 82.2 | 87.5 |
| FCRL3 | 94.8 | 103.4 | 91.2 | 87.1 | 81.9 | 91.7 | 87.5 | 96.9 |
| FCRL3 | 151.7 | 134.2 | 88.7 | 89.6 | 89.6 | 98.1 | 117.9 | 124.6 |
| FCRL4 | 78.4 | 80.9 | 81.7 | 80.6 | 83.4 | 65.4 | 74.4 | 79.8 |
| FCRL5 | 123.1 | 129.1 | 100.1 | 104.7 | 96.5 | 99.6 | 110.1 | 120.3 |
| FCRL6 | 69.1 | 79.8 | 93.6 | 84.9 | 82.1 | 83.3 | 76.6 | 75.4 |
| FCRLM1 | 103.9 | 114.6 | 90.2 | 88.1 | 81.2 | 83.8 | 98.9 | 111.8 |
| FCRLM2 | 341.6 | 397.4 | 213.1 | 165.3 | 122.9 | 168.2 | 337.8 | 470 |
| FDFT1 | 9215.3 | 13278.4 | 6253.9 | 6395.4 | 6401.7 | 7069.7 | 9755.6 | 11375.6 |
| FDX1 | 117 | 136.6 | 108.1 | 96.8 | 88.4 | 103.2 | 121.1 | 176.1 |
| FDXR | 118.2 | 136.9 | 92.1 | 96.6 | 88.9 | 94.4 | 90.6 | 130.2 |
| FDXR | 138.2 | 134.9 | 92.9 | 100.6 | 79.7 | 91.7 | 105.5 | 135.3 |
| FECH | 119.8 | 120.5 | 94.4 | 97.4 | 99.5 | 102.1 | 108.1 | 144.1 |
| FECH | 330.9 | 452 | 217.6 | 322.5 | 241.1 | 387.2 | 361.7 | 432.8 |
| FEM1A | 1114.1 | 1548.4 | 1338 | 1114 | 842.4 | 1130.1 | 871.9 | 961.1 |
| FEM1B | 231.2 | 299.9 | 196.1 | 177.6 | 178.5 | 229.6 | 233.2 | 278.9 |

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| FEM1C | 400.3 | 537.5 | 306.1 | 346.8 | 275.6 | 577.8 | 332.3 | 646.6 |
| FEN1 | 5865.9 | 6945.8 | 4783.7 | 3482.9 | 2805.1 | 3455.8 | 4218.1 | 5428.1 |
| FER | 130.8 | 179.9 | 124.4 | 125.6 | 101.8 | 108.9 | 131.5 | 174.3 |
| FER1L3 | 337 | 407.1 | 290.1 | 199.5 | 188.1 | 256.5 | 320.9 | 360.7 |
| FER1L3 | 160.5 | 222.9 | 152.3 | 100.1 | 110.7 | 106.6 | 165.1 | 156.8 |
| FER1L4 | 87.5 | 85.8 | 81.4 | 93 | 88.8 | 97.8 | 84.7 | 84.4 |
| FERD3L | 84.4 | 95 | 104.2 | 97.2 | 89.5 | 89 | 83.2 | 88.3 |
| FES | 2469.6 | 2870.5 | 2962.7 | 1837.6 | 1699 | 2228.3 | 2191.5 | 2576.8 |
| FETUB | 112.3 | 124.8 | 95.9 | 91.2 | 90.1 | 96.9 | 104 | 114.7 |
| FEV | 94.4 | 105.9 | 103.6 | 80.6 | 80.4 | 85.3 | 101.9 | 118 |
| FEZ1 | 230.3 | 320 | 137.3 | 113 | 105.1 | 115.1 | 192.4 | 219.4 |
| FEZ1 | 173.5 | 211 | 193.8 | 167.2 | 187.6 | 171.8 | 155.4 | 178.5 |
| FEZ1 | 560.2 | 673.1 | 434.5 | 283.5 | 392.3 | 313 | 475.5 | 626.3 |
| FEZ2 | 1387.5 | 1862.3 | 1187.1 | 1634.1 | 1074 | 2086.5 | 1118.9 | 3055.8 |
| FEZ2 | 2778.3 | 3335.1 | 2367 | 3249.6 | 2085.2 | 3815.1 | 2554.3 | 5369.4 |
| FFAR1 | 117.9 | 139.8 | 105.8 | 96.7 | 109.2 | 102 | 108.4 | 110.4 |
| FFAR2 | 118.8 | 128.6 | 94.5 | 98.3 | 91.7 | 103.2 | 121.8 | 121 |
| FFAR3 | 97.6 | 105.6 | 99.4 | 98.3 | 94.1 | 101.2 | 91.6 | 91.2 |
| FGA | 80.5 | 91.3 | 89.8 | 79.4 | 72.9 | 88 | 86.3 | 89.4 |
| FGA | 289.6 | 284.7 | 165.3 | 157.7 | 158 | 155.1 | 257.8 | 313.5 |
| FGA | 88.9 | 112.3 | 81.4 | 82.6 | 82.9 | 81.4 | 99.6 | 103.1 |
| FGB | 101.4 | 125.9 | 88.3 | 93 | 88.5 | 85.1 | 96.4 | 105.2 |
| FGD1 | 98.6 | 128.4 | 122.6 | 99.9 | 95.8 | 107.3 | 97.8 | 111.5 |
| FGD2 | 107.3 | 105.6 | 88.5 | 92.9 | 85.1 | 77.6 | 97.4 | 96.1 |
| FGD3 | 997 | 1254.4 | 641.2 | 556.5 | 583.8 | 654 | 979.3 | 979.1 |
| FGD4 | 109.8 | 125.2 | 107.8 | 92.1 | 80.4 | 84.7 | 101.5 | 117.4 |
| FGD5 | 93.2 | 97.6 | 106.5 | 94.2 | 88.6 | 93.6 | 94.9 | 102 |
| FGD6 | 82.2 | 82.9 | 92.7 | 94.7 | 85.6 | 89.4 | 82.7 | 77.5 |
| FGF1 | 111.8 | 115.5 | 107.4 | 96.5 | 90.3 | 96.4 | 107.9 | 102.7 |
| FGF1 | 115.5 | 118.9 | 99 | 79.1 | 79.1 | 82.3 | 103.1 | 129.1 |
| FGF10 | 85.7 | 116.2 | 87.8 | 75.7 | 82.8 | 81.2 | 91.6 | 89 |
| FGF11 | 99.5 | 115.2 | 99.9 | 94.1 | 81.4 | 85.7 | 106.5 | 110.2 |
| FGF12 | 131.3 | 118.1 | 89.6 | 83.1 | 82.2 | 88 | 114.5 | 117.1 |
| FGF12 | 90 | 89.9 | 94.8 | 86.7 | 87.1 | 87.8 | 83.1 | 93 |
| FGF12 | 101.7 | 118.1 | 99.6 | 81.3 | 86 | 88.6 | 92.4 | 97.8 |
| FGF13 | 89.9 | 113.9 | 102.9 | 86.9 | 83.2 | 93.4 | 98.1 | 106.8 |
| FGF13 | 76.8 | 91.9 | 83.4 | 76.7 | 76 | 75.2 | 86.7 | 91.4 |
| FGF13 | 87.1 | 91 | 92.8 | 83.2 | 79.2 | 86.5 | 86.3 | 105.7 |
| FGF14 | 89.6 | 95.2 | 94.8 | 82.7 | 82.3 | 93.8 | 97.9 | 103.2 |
| FGF14 | 84.1 | 100.7 | 93.4 | 78.6 | 80.2 | 77.9 | 83.5 | 90.9 |
| FGF16 | 97.9 | 87.9 | 83.5 | 77.8 | 74.8 | 85 | 82 | 94.5 |
| FGF17 | 110.8 | 128.2 | 110.9 | 91.7 | 101.5 | 87.5 | 107.6 | 124.2 |
| FGF18 | 138.3 | 172.7 | 145.9 | 127.9 | 117.1 | 117.1 | 135 | 165.6 |
| FGF18 | 70.7 | 93.5 | 99.1 | 93.8 | 74.8 | 91.9 | 83.8 | 85.1 |
| FGF19 | 104.9 | 127.2 | 103.8 | 88.2 | 90.5 | 83.7 | 93.8 | 122.2 |
| FGF2 | 129.4 | 145.4 | 112.8 | 92.7 | 80.9 | 102.5 | 116.8 | 126.3 |
| FGF20 | 151.9 | 176.8 | 109.9 | 100.4 | 94 | 117.5 | 140.9 | 153.6 |
| FGF21 | 129.3 | 134.1 | 96.6 | 97.2 | 100.1 | 96.1 | 115.4 | 118.3 |
| FGF22 | 81.9 | 105 | 96 | 83.3 | 81.8 | 84.1 | 98.6 | 99.3 |
| FGF23 | 82.8 | 96 | 96.9 | 93.9 | 88.3 | 93 | 78 | 93 |

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|----------|--------|--------|--------|--------|--------|-------|--------|--------|
| FGF3 | 96.1 | 105.9 | 91.8 | 99.5 | 85.7 | 90.1 | 103.1 | 107.3 |
| FGF4 | 92.2 | 109.1 | 83.9 | 73.4 | 67.4 | 76.6 | 94.6 | 122 |
| FGF5 | 91.8 | 115.5 | 105.3 | 100.1 | 89.2 | 90.5 | 97.7 | 104.9 |
| FGF5 | 92.1 | 101.4 | 97.9 | 91.2 | 87.7 | 84.8 | 89.6 | 112.6 |
| FGF6 | 85.5 | 114.3 | 86.9 | 79.6 | 69.7 | 81.3 | 97.3 | 100.5 |
| FGF7 | 74.1 | 81.3 | 96.9 | 75.7 | 78.8 | 80.7 | 80.6 | 81.4 |
| FGF8 | 98.8 | 106.6 | 102.1 | 92.2 | 91.9 | 89.9 | 105.6 | 94.8 |
| FGF8 | 82.6 | 87.5 | 92.5 | 82.1 | 80.3 | 82.4 | 80.3 | 81.3 |
| FGF9 | 80.4 | 97.3 | 83.8 | 85.5 | 77.6 | 87.9 | 77.4 | 97 |
| FGFBP1 | 81.7 | 93.1 | 90.1 | 81.8 | 78.9 | 85.4 | 88.4 | 92.7 |
| FGFR1 | 92.7 | 111.8 | 94 | 97.7 | 92.9 | 93.6 | 87.9 | 95.9 |
| FGFR1 | 96.3 | 127.5 | 89.1 | 82.2 | 71.1 | 87.1 | 94.5 | 114.3 |
| FGFR1OP | 529 | 692.3 | 345.7 | 374.3 | 332.2 | 478.9 | 412.9 | 599 |
| FGFR1OP2 | 201.5 | 261.5 | 126.8 | 108 | 110.2 | 143.7 | 184.2 | 272.1 |
| FGFR2 | 78.2 | 96.2 | 92.5 | 82.1 | 81.1 | 77.5 | 95.4 | 88.2 |
| FGFR3 | 177.5 | 203.1 | 93 | 97.4 | 78.3 | 89 | 155.6 | 155.8 |
| FGFR3 | 260.6 | 305.8 | 250.2 | 263.4 | 195.3 | 306.6 | 239.7 | 360.7 |
| FGFR4 | 114.6 | 142.4 | 117.2 | 108 | 105.1 | 125.5 | 106.9 | 138.7 |
| FGFR4 | 79.6 | 106.2 | 86.6 | 88.6 | 84.9 | 92.9 | 75.8 | 82.3 |
| FGFR4 | 93 | 109.7 | 95.5 | 98.1 | 92.9 | 103 | 89.9 | 101.2 |
| FGFRL1 | 292.4 | 301.6 | 395.7 | 338 | 278.3 | 465.1 | 348 | 1010.7 |
| FGFRL1 | 120.8 | 138.9 | 137.4 | 119.4 | 104.8 | 177.1 | 124.2 | 220.5 |
| FGG | 77.3 | 89.9 | 89.4 | 83.6 | 83.4 | 93.8 | 79.5 | 95.3 |
| FGG | 92.8 | 116.6 | 88.3 | 82 | 92.6 | 90.6 | 97.6 | 107.3 |
| FGG | 92 | 102.5 | 98.4 | 86.2 | 76.8 | 79.7 | 90.1 | 101.1 |
| FGL1 | 104.4 | 111.9 | 91 | 85.4 | 80.8 | 85.9 | 101 | 98.5 |
| FGL1 | 88.9 | 103.1 | 98 | 95.3 | 94.9 | 96.6 | 85.1 | 93.1 |
| FGL2 | 177.6 | 235.3 | 118 | 460.5 | 346.1 | 526.5 | 135.6 | 164.3 |
| FGR | 241.2 | 309.1 | 180.8 | 147.5 | 119.9 | 150.3 | 197.4 | 300.3 |
| FGR | 166.6 | 157 | 102.4 | 92.9 | 91.7 | 91.8 | 139 | 175.5 |
| FGR | 675.1 | 772 | 427.1 | 328 | 238.8 | 309.1 | 407.1 | 562.5 |
| FH | 6437 | 7979.9 | 2660.3 | 2173.2 | 1288.5 | 2275 | 6012.3 | 8629.6 |
| FHIT | 98.5 | 100.7 | 100 | 83.4 | 88.3 | 93.8 | 100.6 | 92.7 |
| FHL1 | 138.8 | 151.9 | 122 | 134.2 | 129.9 | 126 | 144.6 | 180.1 |
| FHL2 | 509 | 699.4 | 289.4 | 205.3 | 188 | 286 | 562.8 | 746.8 |
| FHL2 | 299.3 | 387.8 | 230.4 | 193.8 | 190.5 | 234.9 | 274.4 | 384.7 |
| FHL2 | 92.7 | 85.6 | 102.7 | 99.4 | 101.1 | 96.5 | 90 | 89 |
| FHL2 | 85.7 | 99.4 | 91.6 | 82.7 | 88.2 | 90.7 | 82.3 | 96.1 |
| FHL3 | 363.3 | 467.8 | 258.9 | 259.1 | 211.2 | 234 | 349 | 445.7 |
| FHL5 | 90.8 | 98.9 | 97.8 | 86.6 | 85.9 | 82.2 | 87.5 | 97.9 |
| FHOD1 | 497.7 | 636.9 | 701.1 | 493.3 | 388.5 | 703.7 | 439.9 | 819.9 |
| FHOD3 | 82.3 | 87.9 | 99.7 | 96.5 | 88.7 | 101.9 | 89.2 | 85.5 |
| FIBCD1 | 269.1 | 319.7 | 249.8 | 139.9 | 126.2 | 134.2 | 187.3 | 258.7 |
| FIBP | 2147.1 | 2594.8 | 1407.8 | 1040.3 | 883.6 | 810.9 | 2096 | 1735.1 |
| FIBP | 321.9 | 399.9 | 211.6 | 159.3 | 162.7 | 163.3 | 283.7 | 282.8 |
| FIGF | 103 | 130.5 | 101.6 | 81.9 | 91.3 | 91.5 | 105.1 | 128.6 |
| FIGLA | 112.2 | 142.9 | 101.8 | 84.9 | 85 | 80 | 121.2 | 129.6 |
| FIGN | 96 | 97.9 | 98 | 81.7 | 86.9 | 92.4 | 92.8 | 89 |
| FIGNL1 | 453.4 | 571.4 | 294.9 | 250.1 | 182.3 | 307.8 | 338.2 | 432.3 |
| FIGNL1 | 552.3 | 724.3 | 277.7 | 269.8 | 230.2 | 337.3 | 384.2 | 526.2 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| FILIP1 | 94.2 | 118.7 | 116.1 | 120.7 | 105.4 | 122.2 | 103.2 | 105.6 |
| FILIP1L | 201.9 | 251.9 | 158.1 | 229.8 | 166.2 | 370.8 | 187.4 | 189.4 |
| FIP1L1 | 86 | 87.2 | 97.9 | 78.5 | 85.2 | 80.3 | 80.5 | 92.2 |
| FIS1 | 1157.4 | 1515.7 | 647.6 | 490.1 | 438.1 | 639.4 | 1137.5 | 1323.4 |
| FJX1 | 99.4 | 115.2 | 109.6 | 99.4 | 87.3 | 105.6 | 97.6 | 102.3 |
| FKBP10 | 115.3 | 128.4 | 102.4 | 89.8 | 83.5 | 101.7 | 100.7 | 117.4 |
| FKBP11 | 245.9 | 253 | 177.3 | 252.6 | 326.7 | 311.7 | 160.6 | 193.9 |
| FKBP14 | 1062.7 | 1029.1 | 720.3 | 1241.6 | 1313.4 | 901.7 | 987.7 | 2239 |
| FKBP1A | 389.7 | 502.2 | 388.3 | 269.7 | 245.3 | 292.4 | 380.4 | 545.5 |
| FKBP1A | 683.9 | 897.4 | 528.2 | 864.8 | 669.9 | 1042.1 | 548.6 | 850.1 |
| FKBP1A | 1457.3 | 2160.9 | 1445.4 | 1269.5 | 999.3 | 1839.5 | 1082.6 | 2370.7 |
| FKBP1B | 114.5 | 129.8 | 92.6 | 84.5 | 92.3 | 93.5 | 114.5 | 125 |
| FKBP2 | 672 | 790.8 | 308.7 | 266.8 | 232.9 | 255.9 | 667.2 | 745.9 |
| FKBP2 | 166.8 | 188.5 | 98 | 96.1 | 83.6 | 103.5 | 148.8 | 198.1 |
| FKBP2 | 209.6 | 238.6 | 162.6 | 152.1 | 137.6 | 134.4 | 183.9 | 207.5 |
| FKBP3 | 1340.8 | 1618 | 301.7 | 290.7 | 204.9 | 336.5 | 1132.2 | 2038.8 |
| FKBP4 | 540.3 | 712.9 | 325.8 | 162.5 | 138.7 | 157.8 | 431.5 | 550.6 |
| FKBP5 | 982.3 | 1194.2 | 581.3 | 660 | 650 | 736.5 | 848.3 | 896.8 |
| FKBP6 | 82.6 | 88 | 85.5 | 87.2 | 83.7 | 91 | 75.7 | 87.2 |
| FKBP7 | 119.1 | 134.2 | 91.8 | 79.9 | 90.3 | 87.5 | 88.1 | 117 |
| FKBP8 | 170.6 | 217.2 | 111.5 | 117.8 | 104.5 | 114.2 | 177.6 | 229.2 |
| FKBP9 | 84.9 | 89.6 | 107.8 | 101.1 | 98.4 | 104.4 | 84.2 | 87.3 |
| FKBP9L | 606.3 | 771.8 | 484.7 | 619.3 | 470.1 | 775.3 | 516.4 | 878.2 |
| FKBPL | 161.4 | 220.8 | 163.5 | 126 | 126.2 | 143.9 | 177.5 | 169 |
| FKHL18 | 74.2 | 88.4 | 94.2 | 82.4 | 84.9 | 90 | 89.3 | 86.6 |
| FKRP | 131.7 | 134.5 | 140.1 | 130.3 | 113.5 | 112.8 | 128.3 | 202.3 |
| FKRP | 123.7 | 155.5 | 110.7 | 98.2 | 94 | 97 | 126.5 | 154.6 |
| FKSG14 | 1001.8 | 1221.7 | 438.1 | 565.8 | 415.8 | 991.1 | 651.5 | 945.9 |
| FKSG2 | 93.9 | 93.9 | 90.2 | 94.6 | 83.8 | 88.8 | 85.4 | 104.8 |
| FKSG24 | 213 | 222 | 132.4 | 104.7 | 102.6 | 112.4 | 210.3 | 220.3 |
| FKSG30 | 88.3 | 84.5 | 91.8 | 91.1 | 86.9 | 91.6 | 84.3 | 96.1 |
| FKSG44 | 80.2 | 81.2 | 92.7 | 88.7 | 89.5 | 92.3 | 80.1 | 78.4 |
| FLAD1 | 202.1 | 244.1 | 110.7 | 98.7 | 94.7 | 89.3 | 175.5 | 201.4 |
| FLAD1 | 1155.9 | 1297.1 | 798.9 | 525.4 | 413.2 | 529.4 | 891.9 | 930.1 |
| FLCN | 90.5 | 103.1 | 103 | 111.8 | 93.2 | 102.8 | 99 | 113.7 |
| FLCN | 88 | 105.1 | 96 | 91 | 83.5 | 89.3 | 91.3 | 106.3 |
| FLCN | 113.2 | 134.3 | 113.1 | 101 | 87.6 | 93.4 | 128.4 | 131.2 |
| FLG | 77.3 | 76.3 | 85.9 | 77.6 | 80.9 | 86.7 | 77.8 | 77.5 |
| FLG2 | 81.2 | 90.6 | 100.1 | 92.4 | 83.8 | 82.7 | 77.5 | 90.4 |
| FLI1 | 217.7 | 247.5 | 99.7 | 98.9 | 90.5 | 90.9 | 205.3 | 249.5 |
| FLII | 239.2 | 281.4 | 316.6 | 306.2 | 279.6 | 479.6 | 246.5 | 329.8 |
| FLJ00060 | 83 | 89.7 | 97.6 | 92 | 92.9 | 83.7 | 85.8 | 99.2 |
| FLJ10006 | 844.2 | 1344.4 | 593.7 | 601.2 | 517.9 | 1108.2 | 670.9 | 903.9 |
| FLJ10081 | 446.7 | 531 | 437 | 406.1 | 369.1 | 556.7 | 404.1 | 819.5 |
| FLJ10099 | 949.9 | 1328 | 590.7 | 593.7 | 429.4 | 787.5 | 975.2 | 1557.6 |
| FLJ10120 | 133.8 | 159.5 | 141.1 | 173.4 | 174.4 | 219.3 | 117.8 | 134.2 |
| FLJ10120 | 117 | 124.9 | 107.7 | 105.8 | 98.3 | 96.3 | 105 | 136.6 |
| FLJ10154 | 3369.6 | 3766.6 | 1890.6 | 1845.7 | 1755.2 | 3301.4 | 2320.1 | 3619.9 |
| FLJ10159 | 196.9 | 240.3 | 128.4 | 120.3 | 122.5 | 125.8 | 164.2 | 149.5 |
| FLJ10178 | 247.1 | 285.6 | 252.7 | 102 | 98.5 | 123.8 | 201.5 | 298.5 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| FLJ10213 | 260.2 | 248.2 | 150.5 | 234.8 | 214.9 | 247.3 | 189 | 249.9 |
| FLJ10241 | 1575.9 | 2202.5 | 1674.5 | 992.8 | 712.8 | 1153.3 | 1470.1 | 2815.2 |
| FLJ10260 | 141.1 | 171.7 | 107 | 109.8 | 89 | 105.6 | 134.5 | 142.1 |
| FLJ10292 | 151.2 | 183.6 | 120.6 | 117.8 | 110.6 | 115.5 | 127.7 | 206.7 |
| FLJ10324 | 84.2 | 90.2 | 116.6 | 91.9 | 97.9 | 94.3 | 85.4 | 107.7 |
| FLJ10357 | 106.4 | 142.8 | 107.7 | 103.9 | 113.2 | 112.3 | 108.3 | 126.7 |
| FLJ10374 | 237.7 | 325 | 125.2 | 121.9 | 113.9 | 120 | 265.4 | 204.6 |
| FLJ10379 | 458.9 | 594.1 | 409.1 | 517 | 381.8 | 708.1 | 377.9 | 612.7 |
| FLJ10490 | 102.5 | 107.3 | 111.9 | 102.7 | 91.2 | 99.6 | 98.3 | 116.7 |
| FLJ10661 | 250.7 | 283.7 | 198.5 | 138.5 | 122.8 | 153 | 192.4 | 268.9 |
| FLJ10726 | 362.3 | 458.8 | 227.5 | 226.6 | 194.4 | 315.4 | 272.3 | 451.7 |
| FLJ10769 | 639.9 | 931.5 | 557.5 | 587.2 | 552 | 802.2 | 597.5 | 931.9 |
| FLJ10781 | 114.1 | 107.2 | 91.9 | 90.2 | 88.1 | 79.8 | 92.5 | 123.3 |
| FLJ10786 | 78.5 | 88.1 | 80.4 | 82 | 74.2 | 82 | 70 | 84.4 |
| FLJ10815 | 101.9 | 135.1 | 95.5 | 98.9 | 77.6 | 99.5 | 107.1 | 125.2 |
| FLJ10847 | 144.9 | 182.1 | 133.2 | 177.2 | 163 | 193.3 | 164.9 | 190.5 |
| FLJ10916 | 205.1 | 232.5 | 163.6 | 198.2 | 191.8 | 198.9 | 179.3 | 176.7 |
| FLJ10922 | 160.2 | 177.2 | 161.3 | 156.6 | 116.7 | 140.9 | 138.9 | 184.5 |
| FLJ10925 | 161 | 163.4 | 155.6 | 150.1 | 142 | 180.1 | 130.1 | 195 |
| FLJ10945 | 125.5 | 150.9 | 98.5 | 97.7 | 79.5 | 96 | 134.9 | 145.1 |
| FLJ10986 | 450 | 619.7 | 407.2 | 501.8 | 434.3 | 639.4 | 422.1 | 622.7 |
| FLJ10996 | 109.8 | 123.1 | 99.2 | 98.7 | 79.8 | 120.3 | 101.3 | 115.4 |
| FLJ11000 | 153 | 186.7 | 114.5 | 119 | 116.6 | 127.9 | 144.7 | 147.9 |
| FLJ11017 | 118.1 | 146.2 | 106.5 | 103.9 | 97.2 | 107.4 | 119.6 | 153.5 |
| FLJ11151 | 160.4 | 176.4 | 107.8 | 121.4 | 113.8 | 122.1 | 156.6 | 205.3 |
| FLJ11155 | 358.1 | 412.7 | 181.6 | 224.9 | 163.9 | 233 | 318.3 | 427.5 |
| FLJ11171 | 328.5 | 369.5 | 239.4 | 191.7 | 156.8 | 262.5 | 290.1 | 590.2 |
| FLJ11184 | 146.5 | 155.8 | 105.5 | 98.6 | 95.4 | 105.7 | 124.6 | 180.6 |
| FLJ11193 | 247.3 | 356.5 | 135.7 | 125.4 | 120.2 | 145.4 | 236.4 | 318.8 |
| FLJ11200 | 434.1 | 537 | 210.1 | 182.7 | 156.4 | 185.5 | 365.2 | 576.8 |
| FLJ11259 | 179.4 | 234.9 | 179.4 | 134.2 | 155.7 | 159.7 | 149.5 | 232.1 |
| FLJ11286 | 222.3 | 249.8 | 150.5 | 131.7 | 132.2 | 144.9 | 190.3 | 185.4 |
| FLJ11305 | 4282.2 | 5710.9 | 3407.5 | 2818.4 | 2276.6 | 3241.3 | 3562.9 | 4061 |
| FLJ11331 | 83.7 | 97.8 | 91.5 | 90.6 | 85.9 | 89.4 | 85.7 | 96.1 |
| FLJ11712 | 1150.6 | 1002.2 | 370.9 | 406.1 | 291.8 | 502.4 | 1080 | 1865.2 |
| FLJ11783 | 106.8 | 116.7 | 85.8 | 90.9 | 92.4 | 96.9 | 105.4 | 112 |
| FLJ11795 | 187.1 | 230.8 | 161.4 | 201.8 | 169.1 | 240.6 | 112.7 | 122.6 |
| FLJ11806 | 113.7 | 127.7 | 96.3 | 75.1 | 78.8 | 91 | 111.5 | 124.4 |
| FLJ11806 | 175.4 | 205.8 | 157.8 | 121.4 | 101.3 | 141.7 | 144.5 | 160 |
| FLJ11806 | 78 | 75.3 | 94.5 | 87.4 | 85.5 | 96.1 | 91.8 | 85.3 |
| FLJ11806 | 177.1 | 205.8 | 159.1 | 143.9 | 116.2 | 166.4 | 147.4 | 333 |
| FLJ12056 | 91.3 | 111.7 | 90.1 | 86.7 | 91 | 91.6 | 85.9 | 102.6 |
| FLJ12118 | 439.3 | 486.6 | 151.5 | 171 | 132.5 | 174.2 | 358.2 | 364.4 |
| FLJ12331 | 71.3 | 92.3 | 92.8 | 89.5 | 85.8 | 81.5 | 77.3 | 90.1 |
| FLJ12505 | 115 | 145.3 | 97.8 | 97.4 | 98.9 | 97.1 | 97.6 | 102.6 |
| FLJ12529 | 94.6 | 121.4 | 108.7 | 91.1 | 86.8 | 100.5 | 101.3 | 118.1 |
| FLJ12571 | 223.9 | 280.7 | 180.4 | 137.7 | 106.7 | 144.8 | 170.3 | 196.8 |
| FLJ12681 | 101.9 | 106.3 | 93.5 | 94.8 | 86 | 90.4 | 110.3 | 102.8 |
| FLJ12684 | 277.7 | 337.7 | 203.6 | 122.2 | 98.1 | 137.9 | 166.9 | 191 |
| FLJ12716 | 405.4 | 547.8 | 271.6 | 286.3 | 222.6 | 404.2 | 300.7 | 339.6 |

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|----------|--------|--------|-------|-------|-------|--------|--------|--------|
| FLJ12716 | 620.1 | 839.9 | 242.8 | 289.1 | 283.8 | 358.9 | 568 | 773.2 |
| FLJ12788 | 576.7 | 584.6 | 547.6 | 527.3 | 508.4 | 727.9 | 391.6 | 519.9 |
| FLJ12886 | 268.2 | 290.8 | 227.1 | 175.5 | 137.9 | 175.5 | 223.5 | 374.6 |
| FLJ12949 | 219 | 262.1 | 154.7 | 134 | 126.1 | 145 | 183 | 222.1 |
| FLJ12949 | 389.9 | 457.7 | 479.6 | 301 | 252 | 325.4 | 300.7 | 424.6 |
| FLJ12998 | 155 | 179.3 | 157 | 130.5 | 139.6 | 173.8 | 137.9 | 201.2 |
| FLJ13096 | 167.5 | 205.2 | 124.3 | 109.3 | 99.7 | 129.1 | 143.4 | 193.4 |
| FLJ13149 | 565.3 | 719.9 | 412 | 406.1 | 342.6 | 460.8 | 496.3 | 587.2 |
| FLJ13231 | 105.9 | 115 | 99 | 87.7 | 85.7 | 93.3 | 96.5 | 111.3 |
| FLJ13236 | 124 | 163.2 | 110.7 | 99.9 | 89.2 | 92 | 123.7 | 126.9 |
| FLJ13265 | 94.3 | 124.2 | 104.8 | 95.9 | 91 | 100.5 | 94.7 | 111.2 |
| FLJ13273 | 175.7 | 211.9 | 122.9 | 125.6 | 117.2 | 105.3 | 130.3 | 171.2 |
| FLJ13273 | 933.4 | 1143.5 | 331.3 | 272.2 | 197.9 | 244.3 | 935.3 | 1146.4 |
| FLJ13305 | 169 | 209.3 | 119.2 | 117 | 108.3 | 112 | 119.7 | 135.8 |
| FLJ13391 | 88.3 | 91.4 | 89.5 | 74.2 | 85.5 | 84.3 | 98.5 | 103 |
| FLJ13576 | 338.1 | 357.4 | 192.8 | 203.8 | 168.1 | 241.5 | 212.5 | 274.5 |
| FLJ13611 | 109.7 | 118.6 | 92.8 | 83.6 | 89.1 | 83.2 | 109 | 124.5 |
| FLJ13614 | 130.4 | 166.5 | 104.2 | 93.7 | 92.1 | 90.9 | 125.9 | 139.1 |
| FLJ13639 | 193 | 207.7 | 144.5 | 138.2 | 124.9 | 152.2 | 173.4 | 200.1 |
| FLJ13639 | 109.1 | 120.3 | 131.4 | 114.4 | 99.5 | 110.4 | 100.3 | 117.5 |
| FLJ13639 | 161.4 | 222.8 | 144.9 | 143.9 | 119 | 161.8 | 166.7 | 162.6 |
| FLJ13841 | 87.4 | 95.5 | 95 | 85.2 | 90.4 | 83.8 | 93.1 | 105.6 |
| FLJ13909 | 769.5 | 838.2 | 520.1 | 325.3 | 265.3 | 295.1 | 537.8 | 533.2 |
| FLJ13910 | 126.9 | 159.8 | 122 | 110.9 | 98.4 | 110.2 | 117.6 | 158.9 |
| FLJ13912 | 1235.3 | 1660.3 | 791 | 506.8 | 408.4 | 576.1 | 935.7 | 1110.2 |
| FLJ13946 | 125.1 | 130.8 | 98.6 | 89.6 | 85.3 | 97.4 | 102.2 | 124.7 |
| FLJ13984 | 123.2 | 148 | 114.4 | 99.8 | 89.5 | 111.7 | 130.5 | 138.1 |
| FLJ14054 | 87.8 | 104.7 | 104.5 | 90.4 | 78.9 | 90.5 | 86.2 | 90.1 |
| FLJ14107 | 93.8 | 111.7 | 103.9 | 83.6 | 101.5 | 106.7 | 94.3 | 119 |
| FLJ14154 | 190.1 | 257 | 161.4 | 122.9 | 110.9 | 125.7 | 187.5 | 320.9 |
| FLJ14166 | 100.1 | 123.2 | 90.8 | 96.2 | 78.5 | 89.3 | 104.2 | 132.1 |
| FLJ14213 | 108.9 | 123.3 | 104.8 | 98.8 | 83.5 | 93.5 | 94.1 | 110 |
| FLJ14346 | 128.6 | 119.1 | 93.1 | 82.6 | 80.8 | 81.7 | 124.6 | 174.8 |
| FLJ14397 | 91.3 | 102.5 | 99.6 | 87.9 | 82.2 | 87.1 | 100.1 | 121.6 |
| FLJ14466 | 220.9 | 263.3 | 224.1 | 184.4 | 140.6 | 181.7 | 221.8 | 291.8 |
| FLJ14640 | 152.7 | 196.3 | 128 | 117.6 | 103.8 | 141.9 | 150 | 184.2 |
| FLJ14668 | 2113.8 | 2551.9 | 1179 | 942.4 | 782.4 | 1152.5 | 1516.9 | 1665.6 |
| FLJ14768 | 198.9 | 240.7 | 167.4 | 141.6 | 134.2 | 153.2 | 195.6 | 239.3 |
| FLJ14803 | 1079 | 1380.6 | 743.2 | 832.3 | 554.7 | 1195.4 | 960.1 | 2134.3 |
| FLJ14816 | 74 | 88.1 | 94 | 86.1 | 91.3 | 75 | 79.8 | 86.6 |
| FLJ14834 | 76.6 | 80.1 | 96 | 80.7 | 79 | 84 | 79.1 | 79.7 |
| FLJ16008 | 137.9 | 157.3 | 94.9 | 99.1 | 84.1 | 92.6 | 120.8 | 146.2 |
| FLJ16124 | 75 | 70.1 | 90.9 | 81.9 | 84.8 | 88.9 | 80.2 | 81.2 |
| FLJ16165 | 112.6 | 108.7 | 100.7 | 88 | 102 | 100.4 | 106.2 | 136.6 |
| FLJ16231 | 178.5 | 227.5 | 152.1 | 118.5 | 101.3 | 146.1 | 155 | 192.3 |
| FLJ16237 | 129.4 | 140.9 | 96.8 | 86.6 | 89.2 | 93.3 | 122.8 | 127.3 |
| FLJ16331 | 104.1 | 133.8 | 109.7 | 103.1 | 100.9 | 86.7 | 105.1 | 119.4 |
| FLJ16478 | 86.1 | 84 | 88.4 | 90 | 85.7 | 82.4 | 87 | 87.6 |
| FLJ16542 | 122.1 | 146.6 | 102.1 | 101.5 | 86 | 96.2 | 120.4 | 175.4 |
| FLJ16636 | 110.1 | 128 | 99.4 | 93.9 | 84.8 | 101.8 | 107.8 | 125.7 |

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|----------|--------|--------|-------|--------|--------|--------|--------|--------|
| FLJ16641 | 107.2 | 128.9 | 97.5 | 86.3 | 92.6 | 92 | 109.3 | 123.4 |
| FLJ16734 | 134.2 | 157 | 110.5 | 99.1 | 98.4 | 100.2 | 130.1 | 144.5 |
| FLJ16793 | 112.9 | 135 | 114.6 | 100 | 94.3 | 106.5 | 99.9 | 107.5 |
| FLJ20032 | 126.5 | 128 | 97 | 88.6 | 86.8 | 82.9 | 97.4 | 120.2 |
| FLJ20035 | 197.5 | 254.1 | 188.9 | 197.7 | 168.6 | 290.9 | 160.7 | 210.9 |
| FLJ20054 | 489.5 | 665.2 | 465.7 | 873.5 | 699.1 | 1394.8 | 365.9 | 516 |
| FLJ20097 | 175.4 | 191.6 | 117.1 | 141.3 | 118.2 | 160.5 | 168 | 225.2 |
| FLJ20097 | 131.6 | 127.4 | 125.5 | 107.8 | 114.2 | 104.5 | 105.7 | 127.5 |
| FLJ20097 | 69 | 79.7 | 84.4 | 80.7 | 74.7 | 83.6 | 73.5 | 80.9 |
| FLJ20105 | 154 | 204.2 | 117.8 | 105.5 | 99.4 | 116.1 | 145 | 203.5 |
| FLJ20105 | 211.1 | 288.3 | 190.3 | 145.3 | 123.1 | 193 | 179.1 | 203.4 |
| FLJ20125 | 251.5 | 339.5 | 181.7 | 164.2 | 124.7 | 243.4 | 202.3 | 320.3 |
| FLJ20130 | 180.2 | 239.8 | 151.7 | 88.6 | 79.2 | 83 | 137.3 | 157.6 |
| FLJ20152 | 105.5 | 133.3 | 99 | 89.6 | 80.2 | 100.9 | 95.2 | 119.7 |
| FLJ20152 | 161.6 | 221.9 | 125.7 | 102.4 | 89.8 | 112.4 | 162.8 | 168.8 |
| FLJ20152 | 272.4 | 324 | 183.9 | 157.4 | 125.3 | 199.1 | 226.1 | 369.5 |
| FLJ20160 | 158.8 | 210.5 | 147.6 | 168.1 | 151.1 | 188.1 | 167 | 265.3 |
| FLJ20184 | 86.9 | 108.2 | 93.5 | 80.9 | 84.5 | 75.8 | 104.9 | 109.7 |
| FLJ20186 | 568 | 777.7 | 275.1 | 195.2 | 189.5 | 226 | 611.4 | 684.7 |
| FLJ20186 | 541.6 | 712.3 | 194.6 | 162.6 | 138.2 | 158.8 | 593.5 | 930.2 |
| FLJ20186 | 775 | 759.9 | 804.3 | 608.1 | 540.5 | 747.7 | 574.6 | 782.3 |
| FLJ20232 | 1416.2 | 2104.9 | 833.4 | 702.8 | 533.2 | 693.1 | 1185.8 | 1385.3 |
| FLJ20245 | 316.4 | 395 | 494.3 | 361.1 | 295.5 | 630.8 | 291.7 | 645.2 |
| FLJ20254 | 249.6 | 293.1 | 170.1 | 124.3 | 115.2 | 135.1 | 217.5 | 339.7 |
| FLJ20272 | 1207 | 1674.6 | 457.2 | 393.1 | 287.8 | 439.5 | 825 | 1095.7 |
| FLJ20273 | 171.9 | 224.4 | 135.5 | 170.5 | 167.6 | 267.9 | 209.9 | 371.6 |
| FLJ20280 | 402.9 | 535.9 | 291.4 | 280.8 | 216.7 | 252.9 | 299 | 408.6 |
| FLJ20294 | 118.2 | 135.4 | 113.9 | 106.5 | 94.6 | 91.9 | 108.9 | 126.9 |
| FLJ20297 | 156.5 | 168.9 | 130.4 | 131 | 117.6 | 119.2 | 140.5 | 158.8 |
| FLJ20298 | 103.1 | 109.3 | 90.1 | 76.2 | 76.2 | 79 | 104.3 | 116 |
| FLJ20298 | 94.4 | 116.5 | 106.1 | 95.3 | 80.3 | 93.7 | 98.7 | 99.6 |
| FLJ20309 | 78.6 | 85.1 | 98.8 | 107.4 | 96 | 93.9 | 102.5 | 100.6 |
| FLJ20323 | 485.8 | 607.5 | 316.1 | 455.7 | 328.4 | 718.8 | 365.5 | 594.1 |
| FLJ20364 | 1598.4 | 1781.5 | 840.4 | 816.1 | 658.4 | 1177 | 1128.7 | 1641 |
| FLJ20366 | 88.2 | 98.5 | 81 | 96.1 | 71 | 77.6 | 90 | 95.6 |
| FLJ20397 | 88.8 | 108.5 | 97.1 | 77.7 | 82.3 | 90.3 | 100.7 | 106 |
| FLJ20422 | 189.6 | 241.2 | 138.1 | 123.6 | 111.6 | 148.8 | 172.5 | 215.2 |
| FLJ20433 | 88 | 91.9 | 88.5 | 85 | 84 | 94.3 | 80.3 | 87.5 |
| FLJ20489 | 188.8 | 199 | 168.2 | 143.8 | 126.4 | 155.8 | 403.2 | 712.6 |
| FLJ20512 | 2180.3 | 2930.1 | 2060 | 1335 | 1032.3 | 1290.3 | 2129.7 | 2107.8 |
| FLJ20516 | 1103.3 | 1551.8 | 487.6 | 286.3 | 203.2 | 373.4 | 802.4 | 1361.4 |
| FLJ20534 | 948 | 1398.7 | 479.4 | 384.3 | 290.1 | 503.9 | 760.5 | 1595 |
| FLJ20551 | 259 | 309.3 | 188.8 | 181.3 | 173.3 | 230.2 | 227.9 | 306.7 |
| FLJ20558 | 416.6 | 602.2 | 204.4 | 195.2 | 148.3 | 219.6 | 341.7 | 474.4 |
| FLJ20581 | 112.2 | 127.8 | 119.4 | 110.1 | 107.6 | 101.7 | 111.6 | 109.2 |
| FLJ20582 | 610.9 | 864.9 | 331.9 | 333.8 | 257.5 | 367.9 | 584.5 | 818.3 |
| FLJ20625 | 1997.6 | 2315 | 1987 | 1577.7 | 1266.2 | 1404.9 | 1876.7 | 2461.9 |
| FLJ20628 | 403.3 | 457.1 | 203.8 | 186.9 | 162.7 | 220 | 345.5 | 508.6 |
| FLJ20643 | 1083 | 1451.1 | 727.1 | 412.5 | 372.3 | 520.7 | 1035 | 1151.2 |
| FLJ20647 | 835.5 | 1069 | 408.7 | 339.9 | 284.3 | 377.4 | 751 | 1091.3 |

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| FLJ20674 | 104.6 | 138.5 | 90.7 | 80.6 | 79.3 | 90.6 | 99.4 | 118.7 |
| FLJ20674 | 404.2 | 559.1 | 253.4 | 248.4 | 220.4 | 195.8 | 324.5 | 388.3 |
| FLJ20699 | 367.7 | 505.1 | 223.5 | 217.3 | 173.7 | 256.7 | 301.4 | 499.8 |
| FLJ20701 | 103.4 | 130.6 | 105 | 119.6 | 104.8 | 119.9 | 104.3 | 110.2 |
| FLJ20718 | 685.2 | 968.9 | 537.6 | 383.7 | 298.1 | 232.2 | 426.5 | 746.6 |
| FLJ20718 | 102.3 | 127.9 | 116.3 | 97.4 | 89.9 | 90.8 | 98.2 | 120.3 |
| FLJ20758 | 113.2 | 135 | 107.9 | 92.3 | 99.4 | 117 | 104.7 | 133.3 |
| FLJ20850 | 124.3 | 145 | 119.5 | 101 | 82.5 | 103.8 | 131 | 136.8 |
| FLJ20920 | 128.2 | 155.5 | 103.1 | 98.6 | 99.6 | 111.5 | 120 | 158 |
| FLJ21062 | 98.4 | 99.3 | 101.4 | 104.1 | 82.6 | 106 | 93.8 | 95 |
| FLJ21075 | 88.5 | 105.8 | 93.2 | 86.5 | 81.5 | 90 | 85.8 | 95.1 |
| FLJ21103 | 205.2 | 276 | 146.2 | 104 | 110.3 | 113.3 | 210.8 | 223.1 |
| FLJ21106 | 250.1 | 295.3 | 238.5 | 249.4 | 232.4 | 242.3 | 239.4 | 335.1 |
| FLJ21125 | 246.7 | 318.5 | 275.3 | 267.7 | 220.2 | 343.1 | 189.3 | 325.4 |
| FLJ21127 | 531.6 | 759.5 | 313.9 | 312 | 267.2 | 320.3 | 492.5 | 496.6 |
| FLJ21159 | 113.4 | 132.9 | 102.8 | 79.8 | 76.3 | 104.4 | 104.8 | 130.9 |
| FLJ21511 | 83.9 | 87.3 | 106.8 | 108.8 | 104.8 | 108.3 | 81 | 75.3 |
| FLJ21687 | 113.6 | 132.5 | 101.9 | 88.2 | 81.6 | 90.2 | 118.2 | 148.5 |
| FLJ21742 | 183.1 | 209.5 | 136.9 | 103 | 111.4 | 109.5 | 144 | 133.2 |
| FLJ21749 | 242.8 | 326.1 | 201.4 | 177.9 | 158.5 | 210.4 | 226.6 | 284.7 |
| FLJ21816 | 309.6 | 419.4 | 302.2 | 226 | 196.5 | 338.4 | 252.2 | 319.5 |
| FLJ21820 | 414.2 | 572.9 | 373.3 | 338.2 | 280.1 | 447.8 | 327.8 | 583.3 |
| FLJ21827 | 258.8 | 336 | 189.2 | 109.7 | 109.7 | 129.9 | 199.1 | 299.2 |
| FLJ21839 | 304.4 | 387.8 | 323.9 | 264.2 | 250.5 | 444.4 | 244.6 | 379.9 |
| FLJ21839 | 120.7 | 148.1 | 158.2 | 184.7 | 152.4 | 243.2 | 115.8 | 156.8 |
| FLJ21865 | 166.9 | 177.7 | 287.9 | 281.2 | 276.5 | 443.8 | 137.6 | 233.3 |
| FLJ21901 | 597.9 | 603.6 | 262.7 | 279.8 | 225.8 | 395 | 423 | 688.5 |
| FLJ21908 | 90.2 | 114 | 87.8 | 95.4 | 91.2 | 82.9 | 98.5 | 106.9 |
| FLJ21945 | 424.1 | 538.4 | 326 | 302.2 | 239.8 | 293.4 | 337.3 | 394.6 |
| FLJ21963 | 94.9 | 116.9 | 87.2 | 81.1 | 84.9 | 98.1 | 92 | 119.5 |
| FLJ21986 | 90.7 | 94.6 | 98.2 | 106.9 | 100.9 | 130.2 | 84 | 97.3 |
| FLJ22104 | 317.2 | 362.4 | 185.5 | 239.3 | 177.8 | 240.9 | 302.5 | 563.8 |
| FLJ22167 | 132 | 157 | 142.8 | 112.6 | 103.7 | 122.7 | 99.2 | 117 |
| FLJ22184 | 88.5 | 102 | 98.8 | 89.4 | 89.9 | 97.1 | 86 | 95.2 |
| FLJ22184 | 110.9 | 123.8 | 96.2 | 107.2 | 111.4 | 99.8 | 117.5 | 121.7 |
| FLJ22222 | 132.5 | 152.9 | 133.7 | 118.3 | 114.6 | 133 | 137.7 | 179.4 |
| FLJ22222 | 504.4 | 692 | 492.1 | 511.4 | 445.4 | 650.5 | 495.3 | 689.4 |
| FLJ22222 | 174.3 | 218.1 | 125.7 | 120.2 | 100.6 | 143.9 | 166.7 | 209.3 |
| FLJ22318 | 217 | 267 | 194.7 | 171.5 | 164.5 | 212.6 | 190.6 | 231.6 |
| FLJ22349 | 154.6 | 190.9 | 123.8 | 111.1 | 103.8 | 117.9 | 154.4 | 145.4 |
| FLJ22374 | 137.3 | 171.8 | 122.6 | 114.5 | 87.5 | 103.8 | 130.1 | 133.1 |
| FLJ22386 | 237 | 314 | 231.1 | 192.2 | 188 | 282.9 | 206.8 | 312 |
| FLJ22471 | 965.1 | 1210.2 | 508.1 | 520.8 | 400.4 | 432.5 | 993.1 | 778.2 |
| FLJ22531 | 179.1 | 239.4 | 135.9 | 136.9 | 140.2 | 129.1 | 171.3 | 172 |
| FLJ22555 | 1528 | 2128.9 | 959.9 | 986.3 | 669.8 | 1080.9 | 1375.3 | 2493.6 |
| FLJ22624 | 1303.8 | 1590.1 | 709 | 563.2 | 435.1 | 730 | 958.5 | 1746.2 |
| FLJ22639 | 110.9 | 124.5 | 109 | 112.1 | 95.9 | 127.7 | 101.8 | 118.1 |
| FLJ22662 | 127.6 | 141.6 | 133.8 | 330 | 254.4 | 443.2 | 123.1 | 157.7 |
| FLJ22671 | 81.9 | 90.8 | 96.7 | 87.8 | 85.1 | 84.3 | 77.9 | 89.9 |
| FLJ22688 | 103.5 | 116.8 | 120 | 102.7 | 92.1 | 86.1 | 96.2 | 109.7 |

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| FLJ22709 | 568.1 | 584.5 | 463.1 | 347.3 | 308.8 | 339 | 505 | 515.4 |
| FLJ22746 | 265.9 | 322.2 | 207.3 | 198.3 | 154.1 | 216 | 248.1 | 258.8 |
| FLJ22795 | 106.4 | 110.1 | 120.1 | 104.6 | 97.9 | 97.6 | 107.7 | 110.6 |
| FLJ23049 | 159.7 | 189.4 | 115 | 118.3 | 113.1 | 108.7 | 165.7 | 155.4 |
| FLJ23191 | 91.6 | 97.2 | 84 | 71.7 | 74.5 | 80.7 | 97.2 | 96.2 |
| FLJ23356 | 96.8 | 121.5 | 84.6 | 103.5 | 80.1 | 80.2 | 105.8 | 125.9 |
| FLJ23436 | 157.4 | 190.5 | 95.4 | 100.6 | 97.6 | 125.4 | 125.9 | 189 |
| FLJ23447 | 101.7 | 106.2 | 96.4 | 88.4 | 99.1 | 95.8 | 101.9 | 105.2 |
| FLJ23514 | 106.3 | 116.3 | 98.4 | 93.1 | 86.2 | 94.9 | 93.6 | 106.1 |
| FLJ23518 | 92.1 | 94.8 | 93.2 | 81.5 | 78.9 | 90.1 | 90.8 | 96.2 |
| FLJ23577 | 86.7 | 94.6 | 108.5 | 104.6 | 94.2 | 93.9 | 90.1 | 96.1 |
| FLJ23577 | 166.3 | 184 | 107.1 | 100.2 | 91 | 99.7 | 137.4 | 172.3 |
| FLJ23577 | 97.6 | 116.5 | 86.4 | 85.2 | 86.3 | 90.1 | 96.8 | 114.6 |
| FLJ23584 | 307.4 | 375.8 | 302.2 | 298.9 | 282 | 401.1 | 266.1 | 371.6 |
| FLJ23588 | 86.5 | 94.7 | 93 | 88.8 | 84.9 | 88 | 88.3 | 94.6 |
| FLJ23588 | 105.6 | 91.6 | 87.1 | 80.6 | 87.7 | 82.7 | 88.4 | 100.1 |
| FLJ23588 | 115.1 | 143.8 | 98 | 90.1 | 94.4 | 91.3 | 115 | 136.9 |
| FLJ23657 | 86.3 | 96.7 | 87 | 80.9 | 84.3 | 84.2 | 93.8 | 103.6 |
| FLJ23834 | 80.3 | 89.5 | 99.6 | 99.8 | 85.9 | 105.3 | 87.3 | 88.9 |
| FLJ23861 | 98.3 | 121.8 | 96.9 | 90.4 | 89.8 | 97.3 | 104.9 | 112.6 |
| FLJ23878 | 87.4 | 99.2 | 91.8 | 87.4 | 79.7 | 98.5 | 95.3 | 100.1 |
| FLJ25006 | 217.7 | 215.8 | 149.2 | 229.9 | 219.7 | 314.8 | 135.9 | 181.3 |
| FLJ25067 | 175 | 244.3 | 165.6 | 161.6 | 137.4 | 188.4 | 180.6 | 241.7 |
| FLJ25084 | 87.9 | 91.4 | 104.6 | 95 | 96.4 | 106.1 | 95.5 | 95.5 |
| FLJ25102 | 136.2 | 185.6 | 113.8 | 108 | 114.6 | 103.7 | 140.8 | 153.2 |
| FLJ25143 | 165.9 | 176.8 | 100 | 81.4 | 87.7 | 95.7 | 162.5 | 191.3 |
| FLJ25222 | 750.1 | 775.4 | 442.1 | 423.6 | 471.3 | 619.6 | 601.6 | 1235 |
| FLJ25328 | 83.5 | 88.3 | 80 | 79.7 | 86.5 | 92.9 | 83.2 | 90.8 |
| FLJ25369 | 75.7 | 83.1 | 88.7 | 83.7 | 80.2 | 82.2 | 70.2 | 80.8 |
| FLJ25371 | 88.6 | 96.4 | 101.5 | 90.6 | 84.7 | 87.5 | 80.9 | 88.6 |
| FLJ25410 | 128.6 | 150.4 | 103 | 106.7 | 98.8 | 113.7 | 129.8 | 165.4 |
| FLJ25416 | 695.6 | 800.9 | 468.8 | 382.1 | 267.6 | 451.8 | 497.8 | 940.7 |
| FLJ25421 | 123.9 | 136.4 | 97.9 | 83.3 | 80.9 | 89.3 | 124.2 | 154.5 |
| FLJ25439 | 89 | 105.2 | 100.2 | 97.7 | 93.1 | 93.7 | 95.2 | 99.8 |
| FLJ25444 | 79.7 | 88.3 | 91.7 | 85.8 | 75.1 | 86 | 90.1 | 90.9 |
| FLJ25476 | 577.3 | 794.5 | 434.8 | 403.1 | 346.1 | 425.1 | 507.5 | 648 |
| FLJ25477 | 104.1 | 124.7 | 106.5 | 90 | 98 | 106.4 | 108.3 | 116.1 |
| FLJ25660 | 113.9 | 117.1 | 92.2 | 84.6 | 80.4 | 81.1 | 117.2 | 115.6 |
| FLJ25680 | 84.8 | 108.9 | 101.2 | 98.4 | 98 | 96.3 | 95.6 | 99.1 |
| FLJ25770 | 82 | 95.1 | 83.4 | 81.4 | 78.4 | 79.5 | 74.9 | 90.9 |
| FLJ25773 | 99.8 | 120.1 | 84.9 | 83.1 | 75.1 | 78.2 | 101.8 | 107.6 |
| FLJ25791 | 95.4 | 98.5 | 118.4 | 105.6 | 90.2 | 101.2 | 98.6 | 109.1 |
| FLJ25801 | 84.5 | 96 | 95.5 | 93.7 | 85.7 | 91.9 | 89.5 | 90 |
| FLJ25976 | 86.1 | 102.4 | 82.1 | 86.6 | 79.1 | 75.3 | 87.2 | 90.1 |
| FLJ25996 | 87.4 | 92.9 | 90.9 | 76.1 | 76.2 | 92.3 | 87.8 | 98.7 |
| FLJ26175 | 125.2 | 135.6 | 111.9 | 95.4 | 106.1 | 110.5 | 108.5 | 142.4 |
| FLJ26443 | 95.4 | 104.3 | 94.2 | 89.8 | 90.8 | 90.9 | 99.3 | 102.5 |
| FLJ26850 | 170.7 | 235.3 | 105 | 95 | 91.1 | 100.8 | 166.1 | 199.7 |
| FLJ27465 | 91.7 | 101.4 | 130.2 | 123.9 | 124.7 | 113.9 | 91.9 | 96.8 |
| FLJ27465 | 99.6 | 103.8 | 86.1 | 95 | 84.2 | 90.9 | 102.8 | 99.2 |

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| FLJ27505 | 80.5 | 83 | 89.2 | 81.9 | 84 | 88.9 | 81.9 | 89.7 |
| FLJ27523 | 105.6 | 129.9 | 99.6 | 98.8 | 89.9 | 95.1 | 110.5 | 110.6 |
| FLJ30046 | 1650.4 | 2017.1 | 694 | 424.5 | 295.7 | 450.5 | 890 | 1294.5 |
| FLJ30046 | 533.7 | 768.9 | 243.5 | 163.7 | 135.5 | 209.4 | 288 | 372.1 |
| FLJ30058 | 152.2 | 162.7 | 123.9 | 93.9 | 90.7 | 114.7 | 146.9 | 158.6 |
| FLJ30277 | 110.9 | 130.4 | 91.8 | 90.4 | 80.1 | 82.3 | 107.6 | 110.3 |
| FLJ30294 | 97.4 | 104.6 | 89.2 | 89.6 | 84.4 | 89.5 | 92.4 | 129.9 |
| FLJ30313 | 82.4 | 88.5 | 109.3 | 90.6 | 86.8 | 97.3 | 96.1 | 87.9 |
| FLJ30596 | 266 | 354.8 | 140.2 | 140.4 | 108 | 148.5 | 188.9 | 321.3 |
| FLJ30655 | 275.9 | 354 | 140.6 | 126.9 | 120.2 | 188.4 | 218.7 | 303.6 |
| FLJ30707 | 80.4 | 96.9 | 86 | 79.2 | 77.7 | 82.2 | 90.5 | 97.6 |
| FLJ30834 | 132.2 | 154.1 | 104.2 | 94.5 | 95.8 | 94.7 | 121.6 | 136.5 |
| FLJ30851 | 74.2 | 80.4 | 98.4 | 89.3 | 83.7 | 93.4 | 79.5 | 78.4 |
| FLJ30934 | 152.1 | 196.2 | 106.1 | 98.1 | 94.5 | 95.3 | 146.2 | 151.7 |
| FLJ30990 | 142.8 | 163.2 | 113.1 | 111.5 | 90.1 | 98.7 | 114.5 | 145.1 |
| FLJ31196 | 95.8 | 116 | 86.7 | 83.5 | 67.9 | 79.1 | 98.3 | 111.1 |
| FLJ31204 | 113.6 | 148.7 | 111.3 | 96.8 | 85.2 | 91.4 | 110.9 | 130.7 |
| FLJ31401 | 94.5 | 97.7 | 85 | 93.9 | 83.6 | 82.2 | 86.8 | 91.9 |
| FLJ31413 | 778.8 | 976.6 | 572.7 | 539.6 | 506.8 | 557.7 | 982.6 | 1253.8 |
| FLJ31438 | 155.8 | 167.9 | 102.2 | 112.8 | 98.6 | 137.5 | 126.5 | 179.5 |
| FLJ31568 | 99 | 104.5 | 96 | 97.8 | 91.4 | 88.8 | 88.2 | 101.4 |
| FLJ31659 | 86.6 | 98.7 | 113.2 | 104.4 | 98.3 | 96.7 | 82.2 | 86.7 |
| FLJ31846 | 89.5 | 96.7 | 113.6 | 110.8 | 99.8 | 100.6 | 90.6 | 91.9 |
| FLJ32011 | 111.7 | 154 | 110.8 | 109.2 | 93.1 | 105.7 | 121.5 | 129.7 |
| FLJ32063 | 88.8 | 89.7 | 99.1 | 91.6 | 87 | 86.4 | 86.6 | 92.1 |
| FLJ32110 | 95.7 | 105.2 | 88.2 | 91.4 | 82.9 | 82.6 | 95.3 | 107.7 |
| FLJ32130 | 101.7 | 113.3 | 106.1 | 106.1 | 92.9 | 95 | 89 | 105.2 |
| FLJ32206 | 120.4 | 146.9 | 91.4 | 94.9 | 98.5 | 92.5 | 122.1 | 118.3 |
| FLJ32312 | 139.3 | 168.6 | 109 | 106.4 | 96.7 | 122.7 | 134.3 | 144.1 |
| FLJ32447 | 172.4 | 183.2 | 135.5 | 133.4 | 141 | 135.7 | 164.6 | 153.7 |
| FLJ32549 | 176.2 | 252.2 | 104.4 | 96.3 | 88.8 | 92.2 | 171.3 | 188.8 |
| FLJ32569 | 107.5 | 111.6 | 87.5 | 85.4 | 81.1 | 79.1 | 95 | 98.6 |
| FLJ32569 | 77.2 | 79.6 | 91.2 | 91.1 | 84.1 | 89.5 | 84.2 | 82.7 |
| FLJ32658 | 95.6 | 119.1 | 100.7 | 94.4 | 86.7 | 99.5 | 97 | 100.5 |
| FLJ32679 | 98.3 | 103.5 | 94.6 | 93.7 | 81.5 | 99 | 80.6 | 93.3 |
| FLJ32745 | 365.1 | 459.6 | 261.3 | 226.4 | 190.7 | 297 | 264 | 386.4 |
| FLJ32771 | 118.9 | 137.7 | 99.1 | 93.4 | 89.5 | 93.4 | 110 | 127 |
| FLJ32784 | 83.8 | 95.9 | 96.2 | 88.7 | 95 | 96.2 | 84.4 | 84.8 |
| FLJ32786 | 97.3 | 110.8 | 103.1 | 95.3 | 89.7 | 94.2 | 99.6 | 105.1 |
| FLJ32867 | 78.6 | 94 | 99.4 | 101.2 | 90.8 | 95.2 | 82.6 | 87.1 |
| FLJ32871 | 76.4 | 89.5 | 87.9 | 79.6 | 76.5 | 83 | 80 | 89.1 |
| FLJ32894 | 125.1 | 125.2 | 118.6 | 99.2 | 96 | 99.4 | 118.1 | 115.8 |
| FLJ32926 | 83.1 | 85.3 | 90.7 | 84.2 | 82.2 | 84.3 | 78.1 | 85.6 |
| FLJ33360 | 87.4 | 94.1 | 85.2 | 76.8 | 74.9 | 89.3 | 84.6 | 89.1 |
| FLJ33590 | 86.8 | 92.5 | 105.8 | 89.9 | 100.2 | 89.3 | 88 | 101.4 |
| FLJ33641 | 1534.6 | 2041.6 | 884.9 | 2787.1 | 2083.3 | 3682.6 | 975.1 | 1357.2 |
| FLJ33718 | 146.5 | 214.7 | 108.8 | 99.8 | 88.7 | 104 | 143.8 | 165.4 |
| FLJ33790 | 507.4 | 573.9 | 310 | 248.1 | 195.3 | 247.8 | 361.2 | 303.8 |
| FLJ33860 | 140.8 | 153.6 | 133.6 | 438.7 | 319.3 | 670 | 114.9 | 156.5 |
| FLJ34306 | 71.5 | 86 | 89.5 | 91.9 | 82 | 88.2 | 81.5 | 86.7 |

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| FLJ34503 | 112.1 | 106.4 | 90.6 | 88.3 | 82.2 | 91.3 | 99 | 104.4 |
| FLJ34931 | 129.9 | 145.7 | 95.6 | 111.4 | 87.1 | 97.8 | 113.3 | 128.8 |
| FLJ34969 | 592.1 | 656.8 | 356.7 | 521.9 | 391.5 | 593.5 | 552.7 | 1592.6 |
| FLJ35119 | 157.6 | 154.4 | 147.2 | 147.8 | 135.6 | 131.5 | 121.3 | 189.3 |
| FLJ35220 | 108.3 | 127.2 | 104.4 | 108.5 | 116.5 | 121.8 | 110.9 | 112.3 |
| FLJ35409 | 88.5 | 86.4 | 77 | 81.5 | 83.5 | 86.3 | 88.1 | 93.4 |
| FLJ35695 | 79.1 | 77.4 | 90.6 | 81.4 | 81.3 | 83.8 | 79 | 83 |
| FLJ35725 | 103.3 | 133.2 | 120 | 95.4 | 102.3 | 106.4 | 113.4 | 134 |
| FLJ35725 | 113.6 | 167.7 | 105.3 | 86.6 | 82.7 | 77.2 | 125.1 | 143.4 |
| FLJ35767 | 212.4 | 264.3 | 140.9 | 101.9 | 99.2 | 106.6 | 273.9 | 302.7 |
| FLJ35773 | 97 | 123.4 | 85.1 | 86.2 | 83.4 | 89.7 | 99.5 | 110.3 |
| FLJ35776 | 81.8 | 87 | 102.2 | 90.8 | 83.6 | 85.2 | 85.4 | 85.6 |
| FLJ35784 | 82 | 85.5 | 92.2 | 101.8 | 92.7 | 95.5 | 74 | 84 |
| FLJ35816 | 84.4 | 89.8 | 96.4 | 102.2 | 90.3 | 95.8 | 94.4 | 103.8 |
| FLJ35834 | 95.1 | 111.2 | 107.2 | 93.4 | 98.7 | 95 | 98.1 | 101.3 |
| FLJ35848 | 86 | 87.6 | 82.1 | 81 | 79.3 | 83.1 | 86.1 | 91.6 |
| FLJ35880 | 98 | 110.2 | 96.7 | 91.6 | 101.6 | 90.7 | 100.5 | 107.8 |
| FLJ35894 | 80 | 87.5 | 84.1 | 83.8 | 79.6 | 82 | 81.7 | 92.5 |
| FLJ36004 | 76.2 | 81.3 | 83.8 | 83.6 | 85.5 | 71.4 | 75 | 84.7 |
| FLJ36031 | 87.8 | 101.7 | 84.9 | 80.4 | 89.4 | 84.4 | 100.8 | 104.5 |
| FLJ36046 | 113.3 | 116.2 | 118 | 96.6 | 98.4 | 103.2 | 107.5 | 105.3 |
| FLJ36070 | 106.9 | 121.4 | 114 | 94.2 | 92.3 | 92.3 | 112.4 | 112.9 |
| FLJ36090 | 169.6 | 232.3 | 110.8 | 119.1 | 111.3 | 158.4 | 179.8 | 254.8 |
| FLJ36166 | 121.6 | 100.8 | 110.9 | 94.6 | 99.6 | 113.1 | 81.2 | 109.4 |
| FLJ36180 | 118.1 | 127.4 | 113.5 | 99 | 88.4 | 97.8 | 114.5 | 115.9 |
| FLJ36208 | 149.2 | 178.7 | 124.6 | 105.7 | 102.9 | 114.1 | 139 | 155.5 |
| FLJ36268 | 82.2 | 95.7 | 88 | 90.7 | 75.9 | 95 | 87.3 | 98.3 |
| FLJ36445 | 93.7 | 114.2 | 84.5 | 85.7 | 86.5 | 84.9 | 100.2 | 104.4 |
| FLJ36492 | 92.6 | 101.4 | 82 | 84.2 | 83.1 | 86.6 | 91.4 | 94 |
| FLJ36492 | 87.1 | 91.6 | 83.4 | 80.8 | 87.2 | 79.7 | 88.9 | 86 |
| FLJ36748 | 106.2 | 109.3 | 115 | 112.1 | 100.3 | 99.2 | 97.4 | 95.5 |
| FLJ36779 | 90.8 | 113.9 | 92 | 88.8 | 86.5 | 105 | 90.1 | 99.2 |
| FLJ36874 | 1601.2 | 2232.8 | 1178.6 | 1103.5 | 903.4 | 1213.3 | 1514.5 | 2221.7 |
| FLJ36888 | 110.8 | 152.9 | 106.8 | 103.9 | 94.2 | 111.9 | 112.9 | 150.8 |
| FLJ36980 | 119.3 | 130.9 | 93.6 | 84.5 | 88.5 | 82.4 | 118.4 | 136.8 |
| FLJ37078 | 97 | 109 | 97.3 | 97.8 | 101 | 94.8 | 91.9 | 119.8 |
| FLJ37266 | 86.4 | 92.7 | 87.7 | 78.5 | 82.9 | 90.9 | 93.3 | 98.5 |
| FLJ37357 | 87.8 | 97.4 | 96.5 | 93.1 | 89 | 98 | 84.7 | 88.7 |
| FLJ37440 | 106.2 | 111.6 | 116.7 | 90.4 | 83.8 | 88.2 | 107.6 | 119.3 |
| FLJ37464 | 150.2 | 139.4 | 103.9 | 103.6 | 96.7 | 98.5 | 141.4 | 133.2 |
| FLJ37538 | 107.8 | 138.4 | 103.3 | 88.7 | 82.4 | 101.7 | 115.9 | 122.6 |
| FLJ37562 | 190.8 | 234.6 | 148.2 | 171.3 | 135.7 | 199.4 | 181.6 | 277.2 |
| FLJ37927 | 99.7 | 105.6 | 109.6 | 108.6 | 100.8 | 112.5 | 101.5 | 95.5 |
| FLJ37953 | 89 | 96.3 | 99.1 | 97.2 | 89.7 | 88.3 | 88.5 | 116.8 |
| FLJ37970 | 137.4 | 158.4 | 162.4 | 167.9 | 195.1 | 240.9 | 134.1 | 192.3 |
| FLJ38020 | 96.9 | 104.1 | 90.1 | 86.7 | 88.3 | 87.7 | 104.9 | 112.3 |
| FLJ38159 | 230.3 | 274.8 | 130.2 | 139.6 | 111.1 | 131.4 | 210.9 | 252.7 |
| FLJ38288 | 153.5 | 228.3 | 124.9 | 101.5 | 102.4 | 111.8 | 180.2 | 234.8 |
| FLJ38377 | 97.4 | 104.9 | 92.2 | 86.2 | 88.2 | 94 | 95.7 | 100 |
| FLJ38451 | 246.4 | 269.6 | 188.4 | 179.3 | 149.2 | 174.9 | 226.9 | 253.6 |

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|----------|--------|--------|-------|-------|-------|-------|--------|--------|
| FLJ38482 | 1185.5 | 1287.1 | 804.9 | 868.6 | 531.6 | 690.4 | 1209.8 | 1861.8 |
| FLJ38596 | 77 | 103.9 | 78.8 | 83.2 | 75.2 | 73.3 | 88 | 88.9 |
| FLJ38663 | 507.1 | 576.2 | 249.2 | 225.9 | 156.8 | 240.5 | 421.4 | 428.3 |
| FLJ38723 | 88.7 | 91.2 | 101.8 | 95.1 | 92 | 87.4 | 82.2 | 86.3 |
| FLJ38725 | 138.3 | 162 | 85 | 87 | 78.8 | 79.2 | 137.3 | 161.7 |
| FLJ38964 | 85.3 | 89.7 | 95.8 | 83.4 | 80.9 | 83.2 | 86.2 | 96.3 |
| FLJ38973 | 143.4 | 156.8 | 96.7 | 101.1 | 87 | 86.7 | 116.3 | 200.2 |
| FLJ38984 | 229.9 | 271.6 | 174.7 | 161.4 | 149.3 | 187.5 | 253 | 322.3 |
| FLJ38991 | 106 | 127.2 | 107.5 | 108 | 103.7 | 100.9 | 92 | 115.4 |
| FLJ38991 | 111.5 | 135.1 | 108.3 | 100.7 | 94.8 | 104.5 | 117.3 | 128.5 |
| FLJ39061 | 118.8 | 114.2 | 92.9 | 88.8 | 87.6 | 85.8 | 111.5 | 113.7 |
| FLJ39155 | 96.6 | 110.6 | 88 | 81.7 | 87.3 | 87.8 | 96.1 | 110.6 |
| FLJ39155 | 84.6 | 90.3 | 102.5 | 96.7 | 82.3 | 92.9 | 88.4 | 104.6 |
| FLJ39155 | 74.8 | 83.3 | 88.5 | 87.9 | 79.7 | 85.7 | 77.2 | 76.2 |
| FLJ39237 | 96.6 | 99.5 | 90.8 | 91 | 93.1 | 99.6 | 98.4 | 104.6 |
| FLJ39378 | 93.9 | 106.2 | 111.5 | 98.4 | 86.8 | 89.7 | 97 | 116.4 |
| FLJ39501 | 106.1 | 120.6 | 91.7 | 97.9 | 91.7 | 103.6 | 97.3 | 111.5 |
| FLJ39502 | 100.5 | 89.5 | 94.7 | 81.6 | 84.4 | 90.6 | 84.9 | 96.5 |
| FLJ39531 | 99.8 | 129.5 | 94.2 | 78.7 | 81.2 | 88.6 | 95.5 | 123.2 |
| FLJ39575 | 124.9 | 138.4 | 109.6 | 103.9 | 122.7 | 118.4 | 116.6 | 164.7 |
| FLJ39599 | 171.2 | 238.6 | 121.4 | 117.1 | 108.6 | 115.9 | 175 | 213.4 |
| FLJ39660 | 124.3 | 142 | 108.4 | 97 | 99.9 | 96.9 | 119.6 | 130.3 |
| FLJ39743 | 92.1 | 107.5 | 86.2 | 86 | 84.4 | 83.5 | 94.7 | 99.6 |
| FLJ39779 | 113.8 | 137 | 90.2 | 99 | 88.3 | 98.4 | 104.7 | 140.1 |
| FLJ39822 | 144.6 | 167.9 | 91 | 90.1 | 74.4 | 93.5 | 142.4 | 173.6 |
| FLJ39827 | 438.3 | 548 | 424 | 463.8 | 378.8 | 506.1 | 329.4 | 357.5 |
| FLJ40113 | 79.3 | 97.8 | 86.8 | 78.8 | 76.8 | 82.8 | 82.9 | 85.2 |
| FLJ40125 | 124.2 | 140.8 | 111.3 | 97.8 | 103.6 | 120.2 | 97.4 | 110.7 |
| FLJ40142 | 225.2 | 295.5 | 207.7 | 273.2 | 296.8 | 300.2 | 184.8 | 241.8 |
| FLJ40172 | 101.7 | 128.3 | 85.7 | 82 | 77.9 | 88 | 109.1 | 116 |
| FLJ40235 | 90 | 102.6 | 101.1 | 92.6 | 84.6 | 89.5 | 86.3 | 105.6 |
| FLJ40243 | 79.3 | 86.5 | 77.3 | 73.7 | 75.5 | 79 | 73.4 | 90.7 |
| FLJ40244 | 71.8 | 79 | 90.1 | 79.4 | 73.1 | 80.2 | 68.5 | 75.2 |
| FLJ40288 | 103.4 | 129.1 | 104 | 90.4 | 80.8 | 86.8 | 111.9 | 116.9 |
| FLJ40296 | 81.3 | 82.4 | 99 | 90.7 | 88 | 100 | 68.4 | 84.1 |
| FLJ40298 | 75.9 | 83.5 | 91.6 | 76.8 | 75.2 | 78 | 78.5 | 90.2 |
| FLJ40365 | 88.6 | 91.7 | 97.9 | 84.7 | 80.2 | 94.2 | 82.3 | 94.9 |
| FLJ40411 | 161 | 205.5 | 126.4 | 105.5 | 84.5 | 102.3 | 164.5 | 179.1 |
| FLJ40448 | 119.6 | 146.4 | 120.5 | 98.8 | 95.2 | 117.9 | 125.7 | 139.2 |
| FLJ40453 | 94.5 | 103.5 | 97 | 89.5 | 81.2 | 79 | 101.2 | 118 |
| FLJ40504 | 100.2 | 100.9 | 94.7 | 99.7 | 93.3 | 91.7 | 108.9 | 105.3 |
| FLJ40629 | 957.3 | 1197.8 | 718.8 | 653.9 | 552.9 | 757 | 833.6 | 1143.2 |
| FLJ40722 | 111.8 | 136.5 | 96.6 | 83.9 | 85.4 | 94.6 | 98.6 | 121 |
| FLJ40852 | 106 | 141.4 | 113.2 | 98.5 | 100.7 | 104.4 | 107 | 114.1 |
| FLJ40869 | 97 | 117.9 | 90.4 | 80.4 | 76.5 | 97.3 | 93.1 | 111.9 |
| FLJ40919 | 88.8 | 93.9 | 95.6 | 82.3 | 78.3 | 78.4 | 88 | 104.5 |
| FLJ41046 | 86.1 | 106.8 | 92.4 | 92.6 | 86.9 | 85.5 | 95.6 | 104.3 |
| FLJ41131 | 508 | 563.2 | 273.5 | 284.4 | 251 | 269.7 | 349.5 | 356.2 |
| FLJ41170 | 80.8 | 96.2 | 103.8 | 88.8 | 83.9 | 87.4 | 83.5 | 87.7 |
| FLJ41423 | 485.9 | 554.5 | 251.3 | 276.9 | 326.5 | 288.7 | 473.7 | 430.9 |

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| FLJ41603 | 75.5 | 83.1 | 92 | 97.6 | 80 | 94.4 | 94.6 | 83.3 |
| FLJ41649 | 114 | 145.4 | 93.1 | 97.2 | 84.7 | 87.2 | 108.6 | 131.5 |
| FLJ41733 | 104.1 | 117.8 | 94.4 | 86.3 | 89.4 | 89.5 | 90 | 103.6 |
| FLJ41821 | 88.1 | 96.4 | 79.6 | 80.5 | 83.7 | 84.9 | 85.5 | 90.2 |
| FLJ41841 | 79.8 | 86.9 | 100 | 101.1 | 98.2 | 85.5 | 75.6 | 83.9 |
| FLJ41993 | 97 | 112.3 | 97.3 | 93.2 | 79.9 | 87.5 | 103.5 | 105.5 |
| FLJ42102 | 82.9 | 90.5 | 79.6 | 73.3 | 84.8 | 74.6 | 80.8 | 91.2 |
| FLJ42117 | 120.8 | 143.7 | 107.2 | 98.2 | 86.9 | 89 | 116.7 | 129.9 |
| FLJ42133 | 80.5 | 87.4 | 102.3 | 106.2 | 98.6 | 109 | 87.9 | 93.5 |
| FLJ42177 | 84.5 | 91.2 | 89.8 | 82.4 | 87.4 | 97.4 | 81.6 | 91.2 |
| FLJ42258 | 96.7 | 97 | 99.5 | 96.5 | 95.5 | 91.1 | 97.3 | 94.5 |
| FLJ42280 | 77.4 | 100.8 | 96.1 | 93.3 | 90.9 | 90.6 | 92.2 | 95.7 |
| FLJ42289 | 94.8 | 108 | 91.9 | 87.8 | 80.4 | 87.3 | 106 | 120.8 |
| FLJ42461 | 72.8 | 81.8 | 75 | 78.6 | 79.8 | 73.2 | 78.4 | 76.5 |
| FLJ42486 | 126.9 | 136.4 | 101 | 88.9 | 82.5 | 101.9 | 114.3 | 124.5 |
| FLJ42953 | 96.1 | 95.6 | 95.4 | 83.4 | 87.8 | 90.1 | 93.7 | 95.4 |
| FLJ42957 | 76 | 89.4 | 87.4 | 88.9 | 84.4 | 95.7 | 71.2 | 89.7 |
| FLJ42986 | 275.3 | 259.1 | 220.1 | 153.5 | 187.7 | 207.9 | 204.1 | 371.4 |
| FLJ43093 | 1337 | 1352.7 | 1398.6 | 1706.5 | 1657.7 | 2336.2 | 741.3 | 710.1 |
| FLJ43276 | 99.7 | 116.6 | 99 | 95.1 | 94.9 | 109.9 | 102.8 | 97.8 |
| FLJ43339 | 263.5 | 281.3 | 177.9 | 187.4 | 193.7 | 207.6 | 165.1 | 181.4 |
| FLJ43374 | 160.8 | 174.3 | 113.4 | 159.5 | 139.3 | 166.2 | 110.2 | 122.1 |
| FLJ43505 | 78.6 | 88.4 | 96.2 | 82.9 | 83 | 73.9 | 78.2 | 95.1 |
| FLJ43692 | 383.5 | 526.5 | 271 | 282.5 | 230.4 | 329.4 | 340.4 | 438.3 |
| FLJ43752 | 114 | 119.6 | 118.8 | 98.2 | 97.4 | 108.9 | 108.3 | 118 |
| FLJ43763 | 91.7 | 93.6 | 91.7 | 83.7 | 79.7 | 85.1 | 89.2 | 76.6 |
| FLJ43806 | 102 | 118 | 98.5 | 93.2 | 84.8 | 87 | 94.5 | 108.1 |
| FLJ43855 | 80 | 86.6 | 82.6 | 83.5 | 88.2 | 85.7 | 85.9 | 89.1 |
| FLJ43855 | 124.9 | 144.1 | 160.1 | 174.3 | 200 | 253.9 | 134.8 | 189.3 |
| FLJ43860 | 88.6 | 107.9 | 100.5 | 87.1 | 84.5 | 93.4 | 100.8 | 102.6 |
| FLJ43860 | 114.6 | 139.7 | 94.3 | 89.6 | 88.1 | 91.9 | 107.3 | 111.2 |
| FLJ43980 | 93.8 | 108.2 | 90.6 | 80.5 | 78 | 85.6 | 97 | 97.2 |
| FLJ43987 | 97.4 | 109 | 87.9 | 84.2 | 79.5 | 95.9 | 86.4 | 105.5 |
| FLJ43987 | 92.6 | 96.4 | 106 | 101.1 | 94.2 | 106.1 | 93.5 | 97.4 |
| FLJ44048 | 93.6 | 103.9 | 90.3 | 94.1 | 84.7 | 92.1 | 98.5 | 98.4 |
| FLJ44060 | 82.1 | 79 | 87.4 | 86.4 | 81.5 | 82.6 | 86.3 | 83 |
| FLJ44076 | 89.8 | 103.3 | 101.9 | 81.6 | 92.5 | 92.6 | 86 | 92.2 |
| FLJ44112 | 93.1 | 105.3 | 85.4 | 94.1 | 82.5 | 84.4 | 90.8 | 106.1 |
| FLJ44124 | 2332 | 2355.5 | 829.5 | 1134.1 | 1222.7 | 1010.9 | 2162.4 | 2453.4 |
| FLJ44216 | 788 | 1043.7 | 838.7 | 801.5 | 647.7 | 1023.2 | 561 | 926.8 |
| FLJ44216 | 94.9 | 103.2 | 85.4 | 80.9 | 92 | 78.9 | 88 | 104 |
| FLJ44290 | 88.7 | 99.9 | 95.2 | 86.1 | 84.4 | 82.7 | 88.4 | 91.5 |
| FLJ44379 | 114 | 137.7 | 90.2 | 81.9 | 84.5 | 89.3 | 116.7 | 135.8 |
| FLJ44635 | 111.6 | 114.7 | 87.8 | 88.2 | 78.1 | 89.1 | 120.2 | 120.3 |
| FLJ44635 | 86.8 | 85.6 | 95.7 | 84.4 | 88.8 | 83.4 | 82 | 91.8 |
| FLJ44653 | 95.3 | 116.2 | 101.1 | 89.9 | 89.8 | 92.2 | 90.7 | 103.5 |
| FLJ44691 | 86.4 | 98.9 | 94.3 | 87.6 | 71.9 | 89.5 | 86.8 | 95.4 |
| FLJ44815 | 91.8 | 114.3 | 105.8 | 92.8 | 87.4 | 91.8 | 90.4 | 94.9 |
| FLJ44894 | 100.1 | 112.2 | 85.4 | 87.4 | 76.8 | 80.6 | 105.2 | 106.8 |
| FLJ44955 | 118 | 143.6 | 89.1 | 79.4 | 80.2 | 79.9 | 108.9 | 126 |

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| FLJ44968 | 133.1 | 147.4 | 103.1 | 105.6 | 102.5 | 129.7 | 110.2 | 149.1 |
| FLJ45032 | 146.1 | 183.1 | 148.9 | 155 | 130.1 | 143.2 | 145.7 | 174.2 |
| FLJ45079 | 104.7 | 124.5 | 90.1 | 108 | 95.2 | 82.4 | 101.8 | 111.3 |
| FLJ45121 | 89.1 | 88.1 | 88.6 | 81.5 | 81.2 | 87.6 | 88.4 | 95.5 |
| FLJ45139 | 83.2 | 92.7 | 88.4 | 86.2 | 78.2 | 84.9 | 89.4 | 90.7 |
| FLJ45224 | 98.1 | 108.9 | 100.8 | 93.3 | 86 | 94 | 93.7 | 99.2 |
| FLJ45256 | 109.6 | 113.1 | 116.7 | 118.8 | 102.1 | 109.9 | 101.2 | 98.8 |
| FLJ45337 | 121.8 | 155.7 | 118.3 | 123.3 | 118.2 | 124.4 | 120.9 | 141.4 |
| FLJ45422 | 107.7 | 130.8 | 93.1 | 87.2 | 85.9 | 80.2 | 107.2 | 136.9 |
| FLJ45445 | 90.9 | 110.8 | 100.1 | 93.7 | 97.7 | 91.4 | 88.3 | 102.9 |
| FLJ45455 | 105.9 | 119.8 | 100.6 | 95.9 | 95.6 | 92.2 | 101.9 | 106.1 |
| FLJ45530 | 73.6 | 87.4 | 93.8 | 92.2 | 86.5 | 89 | 81 | 87.5 |
| FLJ45537 | 71.9 | 79 | 95.9 | 96.6 | 87.3 | 89.5 | 77.3 | 76.5 |
| FLJ45557 | 165.7 | 233.8 | 141.6 | 127.1 | 115.1 | 147.2 | 177 | 249.1 |
| FLJ45645 | 83.7 | 107.3 | 99.2 | 97.7 | 89.7 | 95 | 81.5 | 93.6 |
| FLJ45717 | 88.4 | 113.3 | 109.7 | 94.8 | 86.2 | 93.7 | 97.4 | 101 |
| FLJ45721 | 76.8 | 92.1 | 94.6 | 83.3 | 89.7 | 79.2 | 83.6 | 104 |
| FLJ45803 | 77.3 | 87.9 | 98.7 | 83.4 | 82.3 | 89.6 | 85.3 | 91 |
| FLJ45831 | 84.9 | 89.2 | 103.9 | 100.3 | 79.8 | 85.9 | 87.8 | 92.9 |
| FLJ45850 | 162.4 | 205.8 | 117.8 | 91.9 | 86 | 95.6 | 140.4 | 158.2 |
| FLJ45909 | 284.7 | 318.2 | 229.5 | 212.2 | 197.2 | 171.5 | 273.6 | 343.1 |
| FLJ45910 | 91.6 | 108.6 | 102.1 | 91.7 | 85 | 98.4 | 93.7 | 95.4 |
| FLJ45964 | 99.4 | 104.8 | 95.5 | 89.9 | 81.5 | 98.5 | 90.3 | 86.6 |
| FLJ45966 | 107.5 | 127.3 | 109.2 | 90.1 | 89.4 | 100 | 108.9 | 118.3 |
| FLJ45974 | 109.6 | 129.6 | 102.4 | 92.9 | 95.6 | 96.9 | 107.5 | 118.1 |
| FLJ45983 | 109.8 | 115.8 | 91.5 | 85.6 | 85.9 | 84.3 | 110.4 | 111.4 |
| FLJ46010 | 80.2 | 83.3 | 89.9 | 90.6 | 91.2 | 101.1 | 86.5 | 87.3 |
| FLJ46072 | 253 | 279.6 | 291.7 | 253.9 | 192.2 | 292.4 | 235 | 412.4 |
| FLJ46082 | 79.7 | 91.3 | 95.9 | 80.4 | 84.3 | 83.9 | 83.8 | 83 |
| FLJ46109 | 76.7 | 90.1 | 95.9 | 102 | 95.7 | 91.6 | 78.3 | 90.3 |
| FLJ46109 | 186.5 | 225 | 124.1 | 150.1 | 156.2 | 134 | 201.9 | 226.8 |
| FLJ46210 | 94 | 112.7 | 89.4 | 85.1 | 74.6 | 83.6 | 93.3 | 100.3 |
| FLJ46247 | 111.3 | 121.2 | 86.6 | 82.5 | 82.5 | 91 | 104.5 | 118.2 |
| FLJ46247 | 87.6 | 118.4 | 100.4 | 80.5 | 74.4 | 89.5 | 91.2 | 108.3 |
| FLJ46247 | 71.5 | 90.3 | 106.3 | 108.4 | 88 | 92.3 | 79.9 | 93.9 |
| FLJ46257 | 80.6 | 89.1 | 91.1 | 88.3 | 79.6 | 94.6 | 77.8 | 86.1 |
| FLJ46266 | 85.2 | 105.2 | 112.3 | 92.7 | 89.1 | 101.2 | 89.3 | 92.6 |
| FLJ46309 | 2887.4 | 2947.9 | 785.3 | 1368.5 | 1241.7 | 899.3 | 2577.1 | 4200.3 |
| FLJ46321 | 79.1 | 81.4 | 86.7 | 84.1 | 82.3 | 87.3 | 81.4 | 87.7 |
| FLJ46347 | 101.2 | 107.4 | 90.4 | 89.4 | 78.3 | 81.8 | 98.2 | 99.6 |
| FLJ46385 | 72.8 | 80.6 | 85.2 | 83.9 | 80.2 | 84.4 | 84.3 | 90.3 |
| FLJ46481 | 128.8 | 159.1 | 119.8 | 120.2 | 110.3 | 104.5 | 127.3 | 127.6 |
| FLJ46536 | 87.8 | 103.6 | 92.6 | 100.8 | 87.2 | 103.8 | 89.1 | 113.3 |
| FLJ46688 | 92.8 | 116.1 | 112.1 | 100.5 | 96.9 | 97.2 | 96.8 | 99.3 |
| FLJ46831 | 91.1 | 107.4 | 100.7 | 94.1 | 90.8 | 83.5 | 93.8 | 97.9 |
| FLJ46836 | 138.2 | 161.3 | 103.9 | 93.1 | 78.8 | 97.3 | 113.2 | 163.1 |
| FLJ46838 | 113.9 | 135.9 | 95.9 | 93.7 | 89.9 | 85.9 | 111.3 | 120.7 |
| FLJ90013 | 236.8 | 321.6 | 147 | 139.7 | 125.9 | 161.1 | 231 | 420 |
| FLJ90166 | 96.4 | 101.8 | 93.9 | 85.6 | 82.2 | 87.2 | 90 | 97.3 |
| FLJ90396 | 460.5 | 510.7 | 179.8 | 211.9 | 162.5 | 270.2 | 384.9 | 789.2 |

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| FLJ90575 | 125.8 | 136.3 | 113.3 | 89.4 | 94.4 | 109.8 | 103.9 | 136.3 |
| FLJ90586 | 83.1 | 96.2 | 84.5 | 75.3 | 83.3 | 83.5 | 88.5 | 94 |
| FLJ90650 | 104.1 | 121.6 | 79 | 83.4 | 84.8 | 85.5 | 96.4 | 112.6 |
| FLJ90652 | 465.4 | 592.8 | 486.1 | 254.9 | 235.9 | 373.3 | 369.3 | 747.8 |
| FLJ90709 | 374.6 | 441.9 | 208.2 | 321.7 | 235.7 | 348.8 | 329.9 | 481.5 |
| FLJ90757 | 195.1 | 230.7 | 191.7 | 240.5 | 186.3 | 203.8 | 156.5 | 211.9 |
| FLJ90805 | 531.1 | 556.9 | 329.9 | 245.9 | 243.8 | 245.7 | 310 | 372.3 |
| FLJ90834 | 87.1 | 88.3 | 91.7 | 92.6 | 90.3 | 90.9 | 84.9 | 89.6 |
| FLNA | 151.5 | 187 | 84.8 | 89 | 89.3 | 88 | 131.1 | 169.2 |
| FLNB | 260.4 | 441.6 | 461.2 | 693.7 | 743.2 | 1090.2 | 315.6 | 527.8 |
| FLNC | 101.1 | 106.8 | 95.8 | 92.3 | 78 | 85.8 | 95 | 119.4 |
| FLOT1 | 202.1 | 254.7 | 186.2 | 123.6 | 125.4 | 190.4 | 202.4 | 232.6 |
| FLOT2 | 6908.5 | 8693.4 | 5099.7 | 7080.9 | 5390.1 | 7116.1 | 5088.2 | 5454.9 |
| FLRT1 | 164.5 | 178.1 | 126.7 | 116.9 | 103.8 | 129.6 | 180.9 | 213.7 |
| FLRT2 | 113.7 | 127.7 | 103.9 | 98.1 | 94.6 | 94.1 | 115.8 | 114.2 |
| FLRT3 | 93.2 | 103.6 | 82.5 | 86.9 | 86.5 | 86.6 | 70.7 | 87.2 |
| FLRT3 | 77.3 | 99.8 | 96 | 87.3 | 86 | 87.5 | 80.7 | 98 |
| FLT1 | 103.5 | 110.5 | 88 | 76.4 | 87 | 93 | 99.8 | 116.2 |
| FLT3 | 444.7 | 622.2 | 338.9 | 250.8 | 219 | 291.7 | 367.4 | 635 |
| FLT3LG | 116 | 132.5 | 127.9 | 105.6 | 96.8 | 113.4 | 115 | 135.3 |
| FLT4 | 92.3 | 101.5 | 96.3 | 87.7 | 93 | 87.9 | 101.6 | 97.1 |
| FLT4 | 75.5 | 91.7 | 82.8 | 79.6 | 78.5 | 88.1 | 87.8 | 84.6 |
| FLVCR | 321.9 | 410.2 | 158.6 | 130.3 | 138.6 | 156.9 | 286.5 | 396.9 |
| FLYWCH1 | 152.5 | 160.6 | 111 | 97.8 | 97.8 | 101.4 | 123.4 | 128.4 |
| FLYWCH1 | 97.3 | 105.5 | 104.3 | 92.6 | 88.1 | 95.7 | 105.5 | 97.7 |
| FMN2 | 87.4 | 100.3 | 96.2 | 81.7 | 88.2 | 92.2 | 92.6 | 86.1 |
| FMNL1 | 110.5 | 123 | 107 | 108.5 | 109.4 | 124.2 | 111.7 | 119.3 |
| FMNL2 | 109.4 | 121.8 | 107.1 | 90.6 | 85.5 | 96.6 | 101.1 | 114.6 |
| FMNL3 | 85.4 | 101.1 | 91.5 | 101 | 94.5 | 97.6 | 87.8 | 92 |
| FMNL3 | 92.2 | 109.2 | 100.2 | 97.4 | 84.1 | 95.5 | 88.4 | 103.2 |
| FMNL3 | 88.4 | 85.5 | 96 | 85.7 | 82.1 | 86.5 | 85.8 | 100.2 |
| FMO1 | 94.1 | 102.4 | 99.9 | 91.9 | 90.5 | 92.6 | 96.2 | 110.7 |
| FMO2 | 113.6 | 102 | 104.8 | 103.2 | 108.9 | 101.1 | 98.4 | 112.7 |
| FMO3 | 73.7 | 87.1 | 82.7 | 74.5 | 77.7 | 79.2 | 72.7 | 80.5 |
| FMO3 | 92.1 | 97 | 87.7 | 84.9 | 82.9 | 95.2 | 88.2 | 102.3 |
| FMO4 | 164.8 | 187.4 | 153.4 | 155.1 | 142.1 | 175.1 | 168.7 | 262.2 |
| FMO5 | 177.3 | 210.9 | 122.7 | 130.8 | 133.6 | 176.7 | 151.8 | 200.6 |
| FMO6 | 166.8 | 183.5 | 164.5 | 132.3 | 146 | 155.7 | 154.3 | 172.2 |
| FMO6P | 112.8 | 138.1 | 91 | 91.1 | 83 | 85.5 | 101.7 | 119.9 |
| FMOD | 99.7 | 115.4 | 101.5 | 87.1 | 91.5 | 94.8 | 97.9 | 109.2 |
| FMR1 | 83 | 91.3 | 93.2 | 87.3 | 91.1 | 86.8 | 86 | 88.7 |
| FMR1NB | 87.9 | 92.4 | 107.8 | 90.1 | 79.4 | 95.8 | 88.4 | 91.2 |
| FN1 | 135 | 132.1 | 90.2 | 80.3 | 90.7 | 83.8 | 112 | 136.6 |
| FN1 | 73.9 | 89.6 | 96.4 | 84.9 | 87 | 87.1 | 81.2 | 86.1 |
| FN1 | 106.7 | 113.5 | 92.8 | 82.3 | 75.2 | 91.8 | 115.1 | 121.5 |
| FN3K | 103.8 | 109 | 109.7 | 98.2 | 96.8 | 87.1 | 100.2 | 101 |
| FN3KRP | 2234.1 | 2739 | 756.2 | 678.4 | 694.5 | 886.5 | 1600.8 | 1537.8 |
| FN5 | 992.6 | 1254 | 361.1 | 364.9 | 296.9 | 352.8 | 1042.2 | 1111.3 |
| FNBP1 | 1727.3 | 2173.8 | 1162.6 | 1913.7 | 1696.5 | 1937.9 | 1557.8 | 1571.4 |
| FNBP1L | 84.8 | 89.7 | 92.1 | 91.6 | 85.7 | 83.3 | 81.3 | 85.3 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| FNBP1L | 172.2 | 227.4 | 107.6 | 117.8 | 121.9 | 129.8 | 150.5 | 173.9 |
| FNBP4 | 1463.3 | 1597.8 | 1446.8 | 1679.8 | 1731 | 2373.4 | 1005.7 | 1774.7 |
| FNDC1 | 77.3 | 90.5 | 88.3 | 75.9 | 79.6 | 85.2 | 81.4 | 84.3 |
| FNDC3A | 238.1 | 255.1 | 142.4 | 159.6 | 142.7 | 234.4 | 228.9 | 421.6 |
| FNDC3A | 99.9 | 102.3 | 105 | 89.7 | 94.4 | 85.9 | 101.3 | 106.1 |
| FNDC3A | 230.2 | 260.8 | 156.9 | 214.7 | 170.6 | 305.4 | 225.8 | 415.9 |
| FNDC4 | 98.9 | 111.8 | 111.7 | 90.1 | 82.4 | 90.2 | 90.7 | 98.2 |
| FNDC5 | 83.2 | 89.2 | 97.6 | 92.5 | 88.9 | 90.3 | 82.2 | 86.5 |
| FNDC6 | 129.6 | 138.9 | 120 | 111.4 | 105.5 | 108.2 | 127 | 158.1 |
| FNDC7 | 86.3 | 83.1 | 101.3 | 94 | 94 | 96.6 | 88.6 | 83 |
| FNDC8 | 78 | 109.4 | 95 | 95.2 | 81.4 | 95.3 | 89.2 | 94.9 |
| FNTA | 1399.3 | 1914.2 | 740 | 561.2 | 485.3 | 766.7 | 929 | 1140.1 |
| FNTA | 106.9 | 132.5 | 93.6 | 78.2 | 77.2 | 77.7 | 109.8 | 136.5 |
| FNTA | 3260 | 4288.7 | 2668.3 | 2012.9 | 1416.8 | 2983.8 | 2566.7 | 4669.1 |
| FNTB | 474 | 595.9 | 364.2 | 318.6 | 265.1 | 297.7 | 362.5 | 409.3 |
| FOLH1 | 76.4 | 93.6 | 97.3 | 95.1 | 94 | 102.2 | 90.1 | 96 |
| FOLH1 | 121.2 | 127.8 | 129.3 | 132.4 | 131.7 | 113.8 | 104.5 | 110.8 |
| FOLR1 | 85.2 | 97.7 | 92.6 | 88.2 | 77 | 87.9 | 87.5 | 85.9 |
| FOLR1 | 107.3 | 127 | 95.8 | 90.5 | 88.3 | 85.6 | 105.5 | 119.4 |
| FOLR1 | 87.4 | 93.2 | 92.5 | 93.6 | 84.6 | 92.3 | 91.4 | 94.6 |
| FOLR1 | 86.3 | 91.2 | 111.4 | 110.7 | 113 | 108.4 | 88.8 | 83.9 |
| FOLR2 | 145.9 | 169.1 | 117.1 | 105.5 | 99.7 | 88.5 | 137.9 | 154.7 |
| FOLR3 | 98.8 | 110.2 | 95.2 | 91 | 85.9 | 94.5 | 96.8 | 99.2 |
| FOS | 591.4 | 727.5 | 323.6 | 312.1 | 249.5 | 316.3 | 547.2 | 987.9 |
| FOSB | 118.6 | 139.5 | 123.6 | 110.4 | 112.5 | 113.4 | 127.6 | 141 |
| FOSL1 | 145.3 | 191.6 | 143.6 | 111.6 | 100.9 | 107.8 | 163.1 | 374.3 |
| FOSL2 | 152.4 | 194.7 | 103.7 | 86.3 | 82.1 | 94.7 | 149.6 | 162.8 |
| FOXA1 | 87.4 | 94.8 | 92.6 | 81.9 | 87.5 | 81.6 | 86.2 | 117 |
| FOXA2 | 91.5 | 94.7 | 96.3 | 91.5 | 95.1 | 93.5 | 83.1 | 86.5 |
| FOXA2 | 79.6 | 89 | 83.3 | 77 | 85 | 78 | 73.3 | 84.2 |
| FOXA2 | 79.9 | 87.2 | 91 | 84.8 | 86.4 | 83.6 | 80.5 | 89 |
| FOXA3 | 80.5 | 93.2 | 104.7 | 111 | 99.7 | 108.1 | 89 | 85.5 |
| FOXB1 | 92.5 | 127.4 | 103.1 | 88.4 | 85.5 | 99.5 | 99.4 | 109.1 |
| FOXC1 | 459.9 | 626.1 | 331.3 | 133.2 | 122.7 | 105.3 | 391 | 354.6 |
| FOXC2 | 128.3 | 163.6 | 104 | 105.9 | 99.7 | 100.9 | 136.4 | 139.3 |
| FOXD1 | 1710.2 | 2103.9 | 1278.6 | 1299.5 | 1183.7 | 1324.9 | 1552.5 | 1927.3 |
| FOXD2 | 379.1 | 421.7 | 273.7 | 276.3 | 230.2 | 212.5 | 310.8 | 509.1 |
| FOXD3 | 107.6 | 124.1 | 87.8 | 88.2 | 88.1 | 91 | 108.7 | 112.4 |
| FOXD4 | 519.5 | 655 | 611.1 | 446.2 | 408.8 | 534.5 | 434.6 | 897.8 |
| FOXD4L1 | 512.7 | 605.8 | 187.3 | 170.2 | 158.7 | 179 | 390.8 | 340 |
| FOXD4L2 | 82.8 | 93.5 | 87.5 | 80.3 | 86.2 | 81.8 | 87.8 | 94.1 |
| FOXD4L3 | 128 | 141.2 | 93.3 | 91.4 | 86.8 | 93.4 | 123.9 | 159.3 |
| FOX E1 | 127.1 | 156.8 | 109 | 111.1 | 91.6 | 92.7 | 120.9 | 134.2 |
| FOX E3 | 98.3 | 101.7 | 100 | 94.2 | 87 | 81.9 | 99.4 | 105.8 |
| FOX E3 | 104.6 | 143.6 | 101 | 83.5 | 77.5 | 92.9 | 104.9 | 111.2 |
| FOX F1 | 102.7 | 118.7 | 103.8 | 87.4 | 85.2 | 89.6 | 110.1 | 118 |
| FOX F2 | 167.2 | 203.1 | 132.5 | 95.8 | 94.1 | 100.8 | 142.8 | 279.4 |
| FOX G1B | 105 | 108.5 | 91.4 | 83.1 | 83.4 | 80.3 | 97.4 | 116 |
| FOX H1 | 99.3 | 118.7 | 105.6 | 87.5 | 91.3 | 98.6 | 101.5 | 106.2 |
| FOX I1 | 83 | 99.3 | 84.8 | 81.4 | 86.7 | 82.2 | 83.5 | 104.4 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| FOXI1 | 97.8 | 111 | 116 | 103 | 88.4 | 100.6 | 95.1 | 111.4 |
| FOXJ1 | 138.3 | 159.5 | 98.2 | 90.8 | 82.3 | 78.1 | 122.8 | 157.4 |
| FOXJ2 | 578.3 | 750.9 | 586.7 | 627.9 | 585.4 | 561.8 | 561.3 | 595.1 |
| FOXJ3 | 2471.6 | 2911.5 | 2157.1 | 3017.5 | 2213.9 | 3526.4 | 2267.2 | 3445.3 |
| FOXK1 | 741.7 | 1143.4 | 835.9 | 980.2 | 739 | 1203.8 | 917.1 | 1644.8 |
| FOXK2 | 122.4 | 134.4 | 87.4 | 90.4 | 84.4 | 93.7 | 110.5 | 133.8 |
| FOXK2 | 127.6 | 152.2 | 119.9 | 110.8 | 87.1 | 111.2 | 119.8 | 155.1 |
| FOXL1 | 98.3 | 108.3 | 89.5 | 90.2 | 86.7 | 88.5 | 97.6 | 108.1 |
| FOXL2 | 95.9 | 126.2 | 109.9 | 91.4 | 83.5 | 96.8 | 103 | 142 |
| FOXL2 | 192.6 | 221.8 | 220.6 | 107.4 | 84.5 | 98.3 | 192 | 479.6 |
| FOXM1 | 222.2 | 304.7 | 309.8 | 254.5 | 221.7 | 320.4 | 229.2 | 400.5 |
| FOXM1 | 177.1 | 217.3 | 205.7 | 200.1 | 173.3 | 219.1 | 152.6 | 242 |
| FOXN1 | 107.5 | 119.1 | 93.8 | 91.9 | 96.3 | 89.1 | 115.9 | 110.3 |
| FOXN4 | 81.6 | 96.5 | 96.3 | 86.7 | 85.2 | 85.6 | 92.3 | 96.5 |
| FOXO1A | 114.9 | 171.2 | 118.2 | 147.5 | 132.7 | 156.9 | 122.8 | 148.6 |
| FOXO3A | 80.1 | 90.8 | 89.3 | 82.8 | 74 | 85.7 | 85.3 | 91.1 |
| FOXO3A | 1052 | 1784.3 | 945.3 | 2013.9 | 1975.3 | 1898.8 | 1124.4 | 1005 |
| FOXP1 | 116.8 | 148.7 | 104.4 | 86.8 | 92.9 | 103.4 | 110.1 | 156 |
| FOXP1 | 142.7 | 174.4 | 105.9 | 95.3 | 90.7 | 92.5 | 129 | 151.2 |
| FOXP1 | 128.7 | 150.3 | 101 | 86.1 | 97.8 | 89.6 | 125.1 | 144.5 |
| FOXP2 | 201.7 | 299.5 | 131.4 | 167.7 | 131.6 | 196.6 | 159.4 | 164.3 |
| FOXP2 | 188 | 281.9 | 128.6 | 173.2 | 141.9 | 226.9 | 159.3 | 171.2 |
| FOXP3 | 106.2 | 132.8 | 88.8 | 91.2 | 84.2 | 89.2 | 110.9 | 133.6 |
| FOXP4 | 119.8 | 159.8 | 130.9 | 120.8 | 127.8 | 135.9 | 133.2 | 189.4 |
| FOXP4 | 97.8 | 108.1 | 100.6 | 88.2 | 98.3 | 91 | 97.8 | 109.1 |
| FOXQ1 | 94.7 | 110.1 | 118.2 | 96.7 | 96.6 | 83.9 | 93.2 | 103.1 |
| FOXR1 | 73.3 | 97.6 | 102.6 | 94.3 | 92.5 | 89.4 | 90.6 | 91.1 |
| FOXR1 | 84.2 | 87.3 | 96.3 | 91.1 | 92.1 | 97.1 | 83.6 | 97.6 |
| FOXR2 | 84.1 | 89.6 | 90.1 | 83.2 | 82.2 | 84 | 83.4 | 89.1 |
| FOXRED1 | 1313.5 | 1438.1 | 722.6 | 585.9 | 461.1 | 552.6 | 996.1 | 1074 |
| FOXRED2 | 585.1 | 673.1 | 428.1 | 549.8 | 429.7 | 397 | 501 | 400.3 |
| FPGS | 127.9 | 125.7 | 103.2 | 98.2 | 99.8 | 111 | 112.5 | 132.1 |
| FPGS | 140.4 | 162.8 | 91.6 | 79.1 | 79.3 | 90.7 | 116.7 | 164.3 |
| FPGS | 91.7 | 103.9 | 102 | 103.9 | 98.9 | 87.9 | 82 | 104.9 |
| FPGT | 78.5 | 97 | 89.9 | 86.3 | 89.2 | 90.7 | 76.1 | 95.8 |
| FPR1 | 106.6 | 113.5 | 95.3 | 134.2 | 100.6 | 153.7 | 104.4 | 110.6 |
| FPRL1 | 96.4 | 104.9 | 106.1 | 108 | 91.2 | 105.6 | 91 | 87 |
| FPRL1 | 99.7 | 101 | 94.5 | 110.7 | 91.9 | 123.8 | 93.4 | 98.2 |
| FPRL2 | 90.5 | 98.2 | 101.5 | 85.8 | 92 | 91.4 | 89.1 | 87.1 |
| FRAG1 | 818.2 | 1054.7 | 300.3 | 271.3 | 216.2 | 289.2 | 580.6 | 639.1 |
| FRAP1 | 454.1 | 640.8 | 551.3 | 641.6 | 550.3 | 894.1 | 469.5 | 721.2 |
| FRAS1 | 77.7 | 78.4 | 92 | 81.3 | 84.8 | 87 | 76 | 72 |
| FRAT1 | 172.8 | 219.8 | 135.3 | 129.2 | 123.3 | 122.7 | 144.9 | 156.3 |
| FRAT1 | 119 | 146.4 | 124.4 | 112 | 99 | 107.6 | 95.5 | 116.4 |
| FRAT2 | 1828.9 | 2524.8 | 1530.5 | 1185.7 | 919.3 | 1243.3 | 1675.8 | 2056.4 |
| FREM1 | 101.1 | 120.7 | 88.7 | 72.8 | 80 | 81.7 | 104.8 | 114.3 |
| FREM2 | 122.6 | 144.9 | 110.8 | 92.5 | 95.3 | 98.9 | 135.4 | 131.1 |
| FREQ | 276.5 | 314.9 | 323.7 | 205.2 | 165.2 | 285.2 | 210.6 | 256.7 |
| FRG1 | 2144.3 | 2630.9 | 381.3 | 394.4 | 327.3 | 463.8 | 2147.8 | 3589.4 |
| FRG2 | 72.5 | 76 | 87.5 | 80.5 | 73.7 | 79.6 | 77.5 | 66.3 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FRK | 87.5 | 95.6 | 86.2 | 79 | 82.5 | 89.4 | 91.9 | 93 |
| FRMD1 | 85.1 | 100 | 89.6 | 95.9 | 79.2 | 95.4 | 84 | 97.3 |
| FRMD4A | 114.5 | 140.8 | 104 | 112.2 | 103 | 142.9 | 109.9 | 120.7 |
| FRMD5 | 92.5 | 100.3 | 96.5 | 91.9 | 83.5 | 91.1 | 93.9 | 99.8 |
| FRMD6 | 103.2 | 130.8 | 89.8 | 83 | 89.2 | 84.3 | 113.6 | 123.5 |
| FRMD6 | 102.7 | 108.4 | 104.4 | 96.8 | 102.3 | 91.3 | 91.9 | 112.1 |
| FRMD6 | 144.9 | 167.8 | 111.8 | 97.4 | 89.9 | 98.9 | 122.5 | 155.4 |
| FRMPD1 | 116.8 | 147.6 | 98.9 | 92.6 | 83.9 | 102.4 | 102.6 | 144.6 |
| FRMPD2 | 90.3 | 89.2 | 101.7 | 93 | 85.3 | 78.8 | 86.8 | 85.3 |
| FRMPD2 | 82.9 | 101.2 | 93.8 | 87.7 | 84.6 | 84.1 | 90.7 | 96.4 |
| FRMPD2 | 90.4 | 102.6 | 97.9 | 93.3 | 84.6 | 88.6 | 86.9 | 89.7 |
| FRMPD2 | 85.6 | 97.6 | 101.8 | 99.3 | 89.4 | 96.5 | 93.7 | 89.7 |
| FRMPD2 | 77.3 | 80.7 | 102.8 | 88.5 | 91.1 | 78.8 | 89.7 | 83.1 |
| FRMPD2 | 79.4 | 86.7 | 92.1 | 88.2 | 80.1 | 93.3 | 85.5 | 88.3 |
| FRMPD4 | 117.6 | 134.8 | 107.4 | 104.4 | 92.9 | 111.5 | 125.6 | 120 |
| FRRS1 | 131.7 | 158.6 | 113.8 | 92.2 | 100.7 | 104.9 | 134.8 | 153.8 |
| FRS2 | 99.9 | 104.9 | 96.8 | 102.1 | 95.8 | 98.6 | 98.1 | 119.4 |
| FRS2 | 96.8 | 124.1 | 97.8 | 95.1 | 86.4 | 79.6 | 92.5 | 113.9 |
| FRS2 | 77.5 | 71.5 | 88.3 | 84.4 | 79 | 83.5 | 73.6 | 83.6 |
| FRS3 | 338.4 | 361.9 | 210.5 | 220.5 | 205.7 | 244.4 | 239.9 | 239.2 |
| FRY | 169.4 | 201.8 | 124 | 130.5 | 124.9 | 177.1 | 154.6 | 195.1 |
| FRYL | 104.3 | 137.1 | 108.6 | 102.9 | 91.4 | 99 | 103.9 | 119.8 |
| FRZB | 118.5 | 136.8 | 98.7 | 95.9 | 94.6 | 100.8 | 114.1 | 138.1 |
| FSCN1 | 5962.4 | 8190.8 | 4918.4 | 4302.6 | 3069.1 | 4132.7 | 5381.3 | 7676.7 |
| FSCN2 | 87.1 | 95.2 | 76.7 | 80.8 | 75.6 | 84.2 | 84.9 | 99 |
| FSCN2 | 79.1 | 81 | 100.1 | 83.7 | 79.5 | 93.6 | 89 | 83.4 |
| FSCN3 | 93.8 | 108.3 | 106.7 | 89.1 | 92.4 | 92.3 | 92.8 | 102.7 |
| FSD1 | 107.1 | 106.8 | 92.9 | 85.4 | 92.2 | 96.6 | 90.9 | 118.2 |
| FSD1 | 80.5 | 99.3 | 98.4 | 74.2 | 75.1 | 78.8 | 100.8 | 113.5 |
| FSD1 | 98.1 | 103.6 | 105.9 | 105.9 | 102.9 | 107.8 | 96.3 | 83.1 |
| FSD1CL | 101.6 | 92.4 | 95.7 | 90.4 | 90.4 | 91.6 | 95.3 | 97.7 |
| FSD1NL | 134.3 | 149.9 | 104.1 | 119.9 | 109.6 | 107.1 | 119.8 | 143.2 |
| FSD2 | 84 | 84.2 | 103.9 | 87.5 | 86.8 | 87.2 | 83.1 | 84 |
| FSHB | 74.1 | 87.5 | 98.2 | 92.5 | 87 | 87 | 74.2 | 81.1 |
| FSHB | 122.3 | 146.3 | 105.4 | 80.7 | 80.2 | 94.4 | 109.3 | 157.3 |
| FSHR | 79.7 | 91.1 | 90.7 | 82 | 77.9 | 87.9 | 80.1 | 86.8 |
| FSHR | 83.7 | 86.5 | 100.5 | 108.4 | 101.9 | 96.2 | 78.3 | 80.3 |
| FSIP1 | 87.8 | 126.9 | 98.2 | 90.9 | 93.8 | 94.2 | 90.6 | 95.5 |
| FSIP2 | 100.4 | 116.9 | 96.2 | 93.8 | 84.8 | 89.8 | 111.7 | 110.4 |
| FST | 126.4 | 123.9 | 83.3 | 89.9 | 80.2 | 88.6 | 112.2 | 133 |
| FST | 290.6 | 353.4 | 177.9 | 211.9 | 154.4 | 242.2 | 258.5 | 318.4 |
| FSTL1 | 177.2 | 198.6 | 119.6 | 99.4 | 91.8 | 103.5 | 160.8 | 250.9 |
| FSTL3 | 163.6 | 168.2 | 122.8 | 97.3 | 113.4 | 127.3 | 133.5 | 195.6 |
| FSTL4 | 69 | 80.5 | 94.6 | 81.9 | 79.6 | 85.1 | 68.1 | 87.4 |
| FSTL5 | 68.8 | 75.1 | 81.5 | 83.6 | 72.8 | 81.6 | 71.8 | 78.3 |
| FTCD | 88 | 84.3 | 96.3 | 84.8 | 77.9 | 89.6 | 79.1 | 92 |
| FTCD | 81.5 | 102.8 | 93.5 | 78.5 | 77.8 | 79.9 | 99.6 | 108.7 |
| FTHL11 | 204.7 | 271.3 | 123.8 | 136.8 | 155.3 | 167 | 446 | 804.6 |
| FTHL12 | 1167.7 | 1526.5 | 484.6 | 593.9 | 441.7 | 649.4 | 3154.3 | 7256.4 |
| FTHL17 | 90.1 | 123.5 | 85.8 | 87.6 | 79.8 | 80.4 | 96.5 | 116.6 |

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|--------|---------|---------|--------|---------|---------|--------|---------|---------|
| FTHL2 | 104.4 | 135.8 | 91.3 | 90.4 | 96.9 | 97 | 134.6 | 212.8 |
| FTHL3 | 266.1 | 387.4 | 170.7 | 204.9 | 240.5 | 228.7 | 613.6 | 1230.5 |
| FTHL7 | 6895.3 | 9212.8 | 4401.8 | 6447.4 | 6004.6 | 6613.9 | 16568 | 24031.7 |
| FTHL8 | 108.1 | 127.7 | 84.9 | 78.2 | 93 | 87.4 | 116.7 | 121.5 |
| FTL | 27813.9 | 29051.4 | 47906 | 48185.5 | 42681.3 | 49295 | 29530.8 | 30029.7 |
| FTMT | 75 | 81.2 | 92.6 | 79.1 | 81.8 | 88.3 | 79.3 | 83.2 |
| FTO | 171.6 | 247.9 | 163.5 | 149.4 | 116.2 | 146.2 | 172.5 | 256.9 |
| FTS | 142.7 | 204.1 | 102.9 | 87.1 | 81.6 | 107.9 | 126.7 | 184.3 |
| FTSJ1 | 994.6 | 1146 | 458.4 | 458.7 | 392.4 | 631.4 | 728.9 | 1226.3 |
| FTSJ1 | 108.8 | 113.2 | 112 | 98.3 | 95.4 | 91.3 | 94.6 | 109.8 |
| FTSJ2 | 469 | 586.5 | 223.7 | 141.4 | 136.5 | 165.7 | 314 | 485.5 |
| FTSJ3 | 222.2 | 316.5 | 129.6 | 140.9 | 122.7 | 156.7 | 202 | 227.2 |
| FUBP1 | 350.3 | 475 | 244.1 | 246.2 | 203.1 | 324.5 | 291.5 | 430.3 |
| FUBP3 | 2436.8 | 3256.1 | 1603.8 | 1933.2 | 1440.5 | 2613.2 | 1875.7 | 3652.6 |
| FUCA1 | 410.7 | 479 | 291.3 | 371.9 | 262.7 | 390.3 | 349.9 | 475.5 |
| FUCA2 | 190.4 | 219.6 | 132.7 | 123.2 | 107.5 | 145.3 | 141.1 | 217 |
| FUK | 252.4 | 299.9 | 189.7 | 178.3 | 164.3 | 216.2 | 184.1 | 213.2 |
| FUNDC1 | 97.9 | 114.4 | 96.5 | 90.2 | 81.4 | 88.2 | 100.7 | 104 |
| FUNDC2 | 124.1 | 149.8 | 99.7 | 87 | 90.7 | 105.7 | 115.3 | 130.1 |
| FURIN | 138.6 | 154.3 | 137.4 | 130.9 | 120.9 | 151.4 | 134.4 | 174.3 |
| FUS | 418.8 | 496.4 | 221.1 | 196.1 | 171.6 | 169.9 | 337.3 | 414.3 |
| FUSIP1 | 78 | 83.3 | 84.6 | 76.1 | 77 | 81 | 81.1 | 80.5 |
| FUSIP1 | 859.8 | 1053 | 439.7 | 287.6 | 246.5 | 253.9 | 489.1 | 473.4 |
| FUT1 | 109.2 | 124.1 | 88.6 | 82.8 | 74 | 79.6 | 113.3 | 136.4 |
| FUT10 | 89.5 | 121.4 | 116.8 | 111.7 | 98 | 116.2 | 95.6 | 110.5 |
| FUT11 | 130.3 | 137.5 | 81.1 | 81.2 | 82.2 | 81.9 | 105 | 150.9 |
| FUT2 | 72.9 | 81.7 | 75.2 | 71.1 | 72.1 | 70.3 | 78.9 | 71.3 |
| FUT3 | 89.4 | 111.1 | 95.8 | 93.9 | 82 | 91.7 | 99.3 | 109.1 |
| FUT4 | 3483.4 | 4498 | 3072.9 | 3794.3 | 2867.9 | 4327.9 | 2462 | 2714.9 |
| FUT5 | 108.7 | 112.9 | 94.9 | 92.4 | 87.9 | 89 | 110.3 | 104 |
| FUT6 | 148.5 | 148.4 | 121.8 | 123.2 | 98 | 139.6 | 134.2 | 201 |
| FUT6 | 91.1 | 95.6 | 110.8 | 99.5 | 99.7 | 91.9 | 86.5 | 89.3 |
| FUT7 | 220 | 270.1 | 161.1 | 135.5 | 146.5 | 162.8 | 187.4 | 275.2 |
| FUT8 | 390.7 | 521.5 | 188.1 | 152.1 | 118.5 | 173.3 | 279.8 | 509 |
| FUT8 | 74.2 | 83 | 89.8 | 89.9 | 93.9 | 98.4 | 71.1 | 81.6 |
| FUT9 | 77.6 | 83.4 | 84.4 | 80.9 | 84.5 | 72.2 | 87.2 | 89.5 |
| FVT1 | 562.1 | 769.1 | 329.5 | 345.9 | 266 | 401 | 573.3 | 1148.2 |
| FXC1 | 393.3 | 487.6 | 256.1 | 222.1 | 175.9 | 222.8 | 299.4 | 413.4 |
| FXN | 185.8 | 242 | 121.8 | 132.2 | 102.7 | 132.9 | 173.4 | 194.3 |
| FXN | 119.3 | 145.7 | 100.8 | 89.7 | 87.6 | 107.6 | 104.7 | 121.7 |
| FXR1 | 1394.2 | 1709.9 | 973.9 | 771.2 | 716.6 | 1320.8 | 1229.5 | 2142.6 |
| FXR1 | 100.5 | 124.3 | 92.9 | 94.8 | 84.3 | 90 | 111.1 | 122.5 |
| FXR1 | 1513.6 | 2027.7 | 735.9 | 801.3 | 705.9 | 1162.2 | 1279 | 1657.7 |
| FXR2 | 145 | 148.2 | 140.8 | 162.8 | 159.5 | 220.3 | 128.7 | 207 |
| FXYD1 | 115.1 | 129.8 | 108 | 94.9 | 87.8 | 98.3 | 113.1 | 114.3 |
| FXYD1 | 118.3 | 144.4 | 101.6 | 85.5 | 85.2 | 92.1 | 112.3 | 133.2 |
| FXYD1 | 145.2 | 171.1 | 101.5 | 99.2 | 88.3 | 92.3 | 127.4 | 147.8 |
| FXYD2 | 167.2 | 194.8 | 110.3 | 104.6 | 103.5 | 115.4 | 167.1 | 169 |
| FXYD2 | 80 | 78.8 | 80.4 | 81.4 | 79.4 | 79.9 | 85.8 | 76.9 |
| FXYD2 | 118.5 | 139.3 | 91 | 92.2 | 79.9 | 88.3 | 117.6 | 124.6 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FXVD2 | 94.8 | 103.7 | 93.6 | 85.3 | 91.3 | 92.9 | 90.7 | 96.3 |
| FXVD3 | 91.9 | 113.8 | 97.5 | 90.6 | 91.7 | 89.6 | 96.2 | 96.4 |
| FXVD3 | 85.8 | 107.4 | 87.7 | 82.9 | 82.7 | 86.9 | 90.6 | 101.8 |
| FXVD3 | 91.7 | 90.6 | 95.1 | 87.9 | 97.1 | 85.8 | 89.2 | 95.1 |
| FXVD4 | 83.7 | 104.3 | 91.2 | 85.9 | 86.8 | 79.9 | 81.1 | 94 |
| FXVD5 | 2004 | 2250 | 1123.9 | 607.5 | 455.8 | 456.5 | 2431.1 | 3199.3 |
| FXVD5 | 119.4 | 132.3 | 133.8 | 115.8 | 114.4 | 122.9 | 97.1 | 111.8 |
| FXVD5 | 4565.5 | 5965.8 | 2736.6 | 1601.1 | 1483 | 1286.6 | 4838.7 | 5921 |
| FXVD6 | 105.5 | 115.7 | 107 | 95.3 | 93.7 | 96.9 | 98.4 | 99.5 |
| FXVD7 | 92.5 | 112 | 100 | 92.1 | 79.1 | 95.9 | 91.6 | 95 |
| FYB | 94.2 | 100.6 | 105.8 | 104.9 | 98.7 | 107.3 | 94.1 | 118.6 |
| FYB | 306.6 | 323.3 | 221.1 | 671.7 | 543.4 | 1140.8 | 217 | 440.3 |
| FYCO1 | 242.4 | 318.7 | 183.3 | 234.8 | 201.8 | 283 | 261.9 | 294 |
| FYN | 218.3 | 283.5 | 170.9 | 179.2 | 147.2 | 236.2 | 248.5 | 449.9 |
| FYN | 129.4 | 199.8 | 126.1 | 129 | 113.8 | 142.2 | 140.7 | 182.9 |
| FYN | 265 | 348 | 157.8 | 129.5 | 116.5 | 143.6 | 231.6 | 300.5 |
| FYN | 110.6 | 124.5 | 117.1 | 138.8 | 115.6 | 161.4 | 101.7 | 111.9 |
| FYTTD1 | 153.7 | 146.8 | 105 | 111.8 | 110.7 | 94.5 | 137.8 | 189.3 |
| FYTTD1 | 584.4 | 716.2 | 188.5 | 171.2 | 162.4 | 245.3 | 564.8 | 997 |
| FYTTD1 | 238.1 | 278.1 | 116.3 | 106.6 | 113.1 | 113.9 | 168.6 | 284.5 |
| FZD1 | 130.6 | 188.6 | 108.7 | 129.1 | 124.4 | 167.1 | 151.6 | 163.3 |
| FZD10 | 119.8 | 128 | 95.6 | 86.7 | 84.9 | 94.2 | 114.7 | 118.8 |
| FZD2 | 416 | 626 | 322.2 | 377.8 | 303.8 | 404 | 392.8 | 513.4 |
| FZD3 | 141.7 | 207.2 | 143.7 | 113.5 | 106.5 | 122.9 | 136.7 | 170.9 |
| FZD4 | 129.1 | 148.5 | 126.7 | 126.1 | 113.6 | 133.8 | 137.5 | 147 |
| FZD5 | 87.4 | 107.5 | 101.9 | 89.3 | 87.5 | 92.5 | 107.3 | 133.4 |
| FZD6 | 255.9 | 268.8 | 125.6 | 121.9 | 99.8 | 126.4 | 211 | 351 |
| FZD7 | 248.9 | 291.1 | 241 | 209.1 | 201.7 | 183.4 | 228 | 247.4 |
| FZD8 | 87.9 | 99.8 | 94.1 | 88.5 | 81.6 | 86.9 | 86.9 | 101.3 |
| FZD9 | 530.8 | 651.1 | 376.6 | 275.8 | 213.4 | 254.6 | 561.6 | 625.1 |
| FZR1 | 160.1 | 182.7 | 114.7 | 95.2 | 95.7 | 97 | 155.7 | 170.8 |
| G0S2 | 120.1 | 153.6 | 97.4 | 97.8 | 99.3 | 99.6 | 130.7 | 128.7 |
| G10 | 3642.7 | 4055.1 | 2207.4 | 1551.9 | 1158.8 | 1635.7 | 3916.8 | 6419.5 |
| G1P3 | 2082.6 | 2570.6 | 1647.6 | 1204.9 | 1089.8 | 756.5 | 2028.6 | 2077.3 |
| G3BP1 | 443.9 | 554.8 | 363.8 | 361.2 | 354.7 | 454.3 | 382.1 | 920.2 |
| G3BP1 | 530.9 | 743.5 | 233.3 | 226.3 | 172 | 251.1 | 408.9 | 526 |
| G3BP2 | 136.6 | 158.2 | 101.3 | 84.7 | 100.4 | 99.4 | 115.9 | 147.5 |
| G3BP2 | 2396.4 | 3033.7 | 1457.1 | 1556.7 | 956.6 | 2280.6 | 1795.5 | 3511.6 |
| G6PC | 93.1 | 97.6 | 88.9 | 88.2 | 84.4 | 89.7 | 85.2 | 92.7 |
| G6PC2 | 126.1 | 132.1 | 103.3 | 97 | 95.7 | 96.9 | 115.3 | 123.3 |
| G6PC2 | 87 | 100.2 | 90.9 | 91.6 | 82.9 | 86.5 | 93.6 | 100 |
| G6PC2 | 78.3 | 94.7 | 82 | 83.9 | 75.8 | 77.6 | 83.9 | 88.6 |
| G6PC3 | 482.7 | 632.9 | 436.3 | 337.4 | 272.7 | 366.3 | 429.6 | 709.5 |
| G6PD | 282.6 | 323.9 | 350.3 | 373.6 | 269.2 | 433.8 | 354.2 | 715.6 |
| G6PD | 1523.4 | 2121 | 1021.9 | 1158.7 | 926.2 | 1005.3 | 2018 | 2900.5 |
| G6PD | 103.6 | 108.7 | 94.1 | 92.4 | 82.6 | 87.2 | 99.7 | 112.8 |
| GAA | 261.2 | 299.7 | 386.4 | 309.6 | 278 | 591.8 | 248.6 | 401.9 |
| GAA | 173.6 | 204.5 | 181.3 | 173.1 | 167.9 | 285.1 | 145.7 | 271.2 |
| GAB1 | 70.4 | 79.3 | 87.7 | 84.6 | 79.1 | 90.1 | 74.9 | 81.4 |
| GAB1 | 111.1 | 136.6 | 94.6 | 106.4 | 87.8 | 91.4 | 110 | 123.7 |

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|-----------|-------|-------|-------|-------|-------|--------|-------|--------|
| GAB1 | 95 | 126.4 | 89.2 | 81.8 | 78.4 | 90 | 96.5 | 119.3 |
| GAB2 | 251.9 | 334.5 | 192 | 290.1 | 274.9 | 465.2 | 268.6 | 342 |
| GAB2 | 116.3 | 118.3 | 96.4 | 106.4 | 103.4 | 90.1 | 108.8 | 122 |
| GAB2 | 96.4 | 115.2 | 86.3 | 84.2 | 78.1 | 88.4 | 100.9 | 107.7 |
| GAB3 | 121.8 | 143.7 | 121.6 | 139.3 | 124.6 | 137.5 | 108 | 166.1 |
| GABARAP | 181 | 198.2 | 121.6 | 127.7 | 104.2 | 104.6 | 164.8 | 175.3 |
| GABARAPL | 124.7 | 131.4 | 119.2 | 119.2 | 122.9 | 132.1 | 246.8 | 443.3 |
| GABARAPL | 272 | 284.4 | 121.6 | 112.1 | 102.6 | 118 | 283.7 | 434.2 |
| GABBR1 | 109.9 | 120.1 | 117.2 | 99 | 104.9 | 118 | 91.3 | 91 |
| GABBR1 | 99.1 | 111.1 | 85.6 | 92.9 | 78.4 | 81.8 | 95.7 | 104.2 |
| GABBR1 | 83.6 | 99.5 | 99 | 91.6 | 97.5 | 96.9 | 92.6 | 92.1 |
| GABBR2 | 242.8 | 329.6 | 273.8 | 797.6 | 788.3 | 1030.4 | 220.8 | 435.1 |
| GABPA | 78.1 | 77.8 | 84.5 | 76.9 | 84.3 | 89.3 | 72.1 | 92.3 |
| GABPB2 | 68.7 | 83.6 | 82.2 | 86.1 | 80.8 | 80.9 | 83.3 | 78.2 |
| GABPB2 | 736.9 | 953.8 | 308.3 | 227.5 | 184.6 | 281.3 | 594.4 | 1014.9 |
| GABRA1 | 71.5 | 82 | 84 | 82.7 | 76.3 | 85.9 | 77.8 | 73.4 |
| GABRA2 | 89.3 | 128.2 | 97.1 | 88.1 | 87 | 101.5 | 93.6 | 107.2 |
| GABRA3 | 94.6 | 115.3 | 93.3 | 91.5 | 74.9 | 81.4 | 99.2 | 99.4 |
| GABRA4 | 86.9 | 88.9 | 98.4 | 92.6 | 89.9 | 81.7 | 83.3 | 77.8 |
| GABRA5 | 93.8 | 105.6 | 84.2 | 83.1 | 89.3 | 84.5 | 92.5 | 99 |
| GABRA6 | 107.6 | 127.2 | 96.2 | 84.6 | 84.2 | 89 | 106.8 | 118.5 |
| GABRB1 | 71.7 | 78.7 | 93.2 | 84.1 | 85.8 | 83.9 | 70.3 | 86.2 |
| GABRB2 | 92.5 | 99.2 | 91.9 | 92.2 | 86.6 | 75.2 | 94.8 | 99 |
| GABRB2 | 80.4 | 92.7 | 101.9 | 86.5 | 88.2 | 86.7 | 83.2 | 95.7 |
| GABRB3 | 78.7 | 82.8 | 98.5 | 96.1 | 77 | 84.6 | 94.6 | 90.3 |
| GABRB3 | 99.3 | 100.4 | 103.7 | 90.5 | 90.3 | 94.5 | 96.7 | 103.6 |
| GABRB3 | 104.6 | 111.5 | 104.7 | 89 | 84.7 | 97.9 | 107 | 120 |
| GABRB3 | 107.5 | 109.2 | 98.2 | 92.7 | 85.8 | 80.7 | 103.4 | 106 |
| GABRD | 114 | 128.6 | 93.6 | 89 | 84.6 | 96.5 | 115.2 | 135 |
| GABRE | 97.5 | 113 | 104.5 | 94.5 | 103 | 104.1 | 94.7 | 104.8 |
| GABRE | 104.6 | 131.1 | 86.1 | 83.9 | 79.7 | 91 | 113.1 | 124.3 |
| GABRE | 121.6 | 117 | 122.1 | 108.7 | 106.4 | 102.8 | 102.7 | 118.1 |
| GABRG1 | 93 | 95 | 100.6 | 82 | 78.7 | 90.5 | 103.4 | 95.7 |
| GABRG2 | 120.7 | 131.6 | 109 | 118.8 | 97.8 | 118.1 | 118.4 | 131.9 |
| GABRG2 | 169.5 | 195.2 | 157.6 | 145.6 | 152.4 | 155 | 174.7 | 221.3 |
| GABRG3 | 88.2 | 104.5 | 96.9 | 86.1 | 85.5 | 97.8 | 102.1 | 115.8 |
| GABRQ | 77 | 95.1 | 80.9 | 76.5 | 75.3 | 75.2 | 91.3 | 91.2 |
| GABRR1 | 77.9 | 82.6 | 94 | 86 | 84.7 | 85.6 | 67.7 | 86.4 |
| GABRR2 | 89.5 | 97.7 | 81.8 | 79.4 | 84.4 | 87.4 | 94 | 107.4 |
| GAD1 | 71.8 | 90.2 | 82.5 | 79.3 | 78.7 | 80.3 | 73 | 76.3 |
| GAD1 | 97 | 103.8 | 100.3 | 91.2 | 89 | 95.8 | 92.5 | 109.3 |
| GAD1 | 92.6 | 93.3 | 85.7 | 86.4 | 66.8 | 87.5 | 83.4 | 88.2 |
| GAD2 | 87.4 | 101 | 100 | 96.9 | 97.8 | 92 | 82.1 | 90.6 |
| GADD45A | 595.7 | 714.4 | 321.9 | 329.9 | 294.9 | 405.8 | 821.6 | 1191 |
| GADD45B | 240.5 | 281.1 | 135.5 | 128.8 | 127.4 | 132.7 | 213.6 | 279.7 |
| GADD45G | 83.6 | 87.4 | 85.5 | 93.5 | 93.6 | 94.8 | 85.7 | 83.2 |
| GADD45GII | 138.4 | 149.9 | 98.4 | 95 | 88.9 | 90.1 | 141.6 | 214.3 |
| GADL1 | 70.7 | 79.9 | 102.2 | 95.7 | 96.1 | 90.6 | 77.3 | 82.9 |
| GAGE1 | 100.8 | 127.4 | 91.8 | 91.3 | 94.7 | 84.8 | 113.6 | 122.2 |
| GAGE1 | 94.2 | 106.8 | 98.6 | 98.9 | 85.6 | 93 | 95.7 | 111.4 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| GAGE1 | 86.1 | 91.1 | 116.3 | 105.3 | 104.6 | 115.3 | 83.3 | 82.6 |
| GAGE2 | 81.8 | 80.5 | 112.6 | 105.4 | 94.9 | 103.8 | 83.3 | 86.9 |
| GAGE4 | 118.6 | 122.9 | 101.4 | 84.9 | 98 | 87.9 | 106.3 | 119.2 |
| GAGE5 | 77.3 | 96.3 | 85 | 86.9 | 84 | 82.6 | 83.1 | 87.6 |
| GAGE6 | 104.1 | 121.5 | 92.1 | 91.7 | 79.8 | 86.7 | 110.1 | 113.4 |
| GAGE7 | 91.3 | 108.3 | 106.4 | 90.4 | 88.9 | 100.7 | 96.2 | 107 |
| GAGE7B | 81.3 | 89 | 95.2 | 83.1 | 86.3 | 78.9 | 83.5 | 85.7 |
| GAGE8 | 88.7 | 99.8 | 84.6 | 78.3 | 79.2 | 79.8 | 89.1 | 95.6 |
| GAK | 2048.1 | 2340.9 | 2192.4 | 1815.6 | 1696.1 | 2028.9 | 1546.8 | 1620.7 |
| GAL | 1211.8 | 1414.7 | 1046 | 665.4 | 427.6 | 670.2 | 1182.8 | 2134.2 |
| GAL3ST1 | 94.8 | 101.8 | 98.4 | 85.7 | 90.4 | 81.3 | 92.2 | 98.6 |
| GAL3ST2 | 163 | 167.6 | 138.3 | 111.7 | 107.2 | 126.7 | 138.9 | 160.3 |
| GAL3ST3 | 89.8 | 93.7 | 95.3 | 95.1 | 89.7 | 85.5 | 89 | 104.6 |
| GAL3ST4 | 124.2 | 133.1 | 91.8 | 81.3 | 78.7 | 91 | 112.6 | 136.9 |
| GALC | 292.6 | 344.3 | 164 | 140.2 | 114.4 | 139 | 226.6 | 291.2 |
| GALC | 826.7 | 944.7 | 694.8 | 960.3 | 620 | 1055.4 | 611.9 | 948.1 |
| GALE | 84.9 | 95.4 | 93.4 | 91.6 | 84.4 | 89.6 | 87.2 | 90.9 |
| GALE | 274.6 | 285.7 | 207.7 | 230.8 | 171.9 | 206.9 | 234.5 | 190.6 |
| GALE | 102.6 | 99.5 | 95.6 | 97.8 | 97 | 101.8 | 94.6 | 95.7 |
| GALGT | 134.5 | 174.6 | 100.2 | 89.4 | 87.2 | 98.1 | 162.5 | 191.9 |
| GALIG | 91.2 | 109.3 | 92.2 | 91.3 | 92.2 | 85.9 | 95.1 | 106.2 |
| GALK1 | 5118.5 | 6576.4 | 3880.3 | 3386.9 | 2688.1 | 2916.4 | 4594.4 | 4650.8 |
| GALK2 | 566.1 | 773.9 | 298.9 | 225.2 | 204.6 | 252.5 | 468.2 | 691.4 |
| GALK2 | 194.8 | 303.9 | 159.6 | 227.1 | 197.7 | 236.3 | 205.8 | 273.1 |
| GALK2 | 179.3 | 216 | 105.6 | 107.6 | 96.7 | 105.3 | 149.6 | 161.9 |
| GALM | 366.8 | 494.5 | 335 | 411.7 | 361.4 | 604.5 | 366.5 | 500.7 |
| GALNAC4S- | 74.9 | 93.5 | 76 | 83.8 | 71.5 | 76.3 | 89.9 | 109.3 |
| GALNACT-2 | 134.4 | 169.1 | 92.5 | 88.1 | 76.8 | 92.2 | 116.8 | 166 |
| GALNS | 155.1 | 188.9 | 103.5 | 102.4 | 96.8 | 108.7 | 149.3 | 187.4 |
| GALNT1 | 76.1 | 95.1 | 108.4 | 93.2 | 87.4 | 84.9 | 75.5 | 81.1 |
| GALNT10 | 104.8 | 150.3 | 89.5 | 88.5 | 86.9 | 87.3 | 131.2 | 126 |
| GALNT10 | 125 | 172.2 | 128.9 | 133.9 | 126.2 | 166.5 | 110.1 | 163.1 |
| GALNT10 | 115.7 | 132 | 117.9 | 109.2 | 103.4 | 121.5 | 100.3 | 145.1 |
| GALNT11 | 422.3 | 548.5 | 248.3 | 254.2 | 207.3 | 422.1 | 407.6 | 619 |
| GALNT12 | 512.4 | 677.9 | 316.5 | 377.4 | 310.7 | 494.7 | 386 | 524.1 |
| GALNT13 | 83.5 | 84.7 | 102.5 | 97.5 | 94 | 82.7 | 79.7 | 75.4 |
| GALNT14 | 149.5 | 198 | 106.1 | 86.7 | 76 | 97 | 154 | 196 |
| GALNT17 | 100.3 | 124.2 | 97.3 | 99.3 | 88.2 | 98.1 | 115 | 122.6 |
| GALNT2 | 116.7 | 136 | 108.2 | 107 | 99.3 | 110.8 | 103.8 | 124.4 |
| GALNT3 | 222.4 | 217.7 | 158.6 | 176.7 | 175.6 | 153.8 | 193.9 | 262.4 |
| GALNT4 | 157.9 | 194 | 99.7 | 105 | 102.1 | 101.6 | 152.8 | 193.8 |
| GALNT5 | 75.8 | 83.6 | 89.7 | 79.4 | 79.9 | 80 | 81.6 | 76.3 |
| GALNT6 | 174.7 | 195.5 | 132.1 | 131.2 | 119.7 | 129.5 | 153.1 | 206.7 |
| GALNT7 | 87.7 | 105.3 | 91.1 | 86.3 | 80.8 | 85.2 | 79.9 | 99 |
| GALNT8 | 104.4 | 136 | 101.7 | 90.3 | 84.4 | 83.8 | 112.4 | 125 |
| GALNT9 | 131.9 | 149 | 97.8 | 74.1 | 84.7 | 88.1 | 116.4 | 123.8 |
| GALNT9 | 79.6 | 102.6 | 79.6 | 70.4 | 70.4 | 67.5 | 87.9 | 98 |
| GALNTL1 | 79.1 | 92.9 | 108.7 | 99.1 | 93.3 | 90.7 | 81.6 | 84.8 |
| GALNTL2 | 99.6 | 113.7 | 94.4 | 90.3 | 76.8 | 85.9 | 100.3 | 111 |
| GALNTL4 | 99.9 | 120.5 | 96.6 | 80.4 | 83.5 | 79.2 | 98.6 | 106.3 |

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|---------|---------|---------|--------|--------|--------|--------|---------|---------|
| GALNTL5 | 72.7 | 87.5 | 87.6 | 84.2 | 80 | 83.5 | 75.9 | 78.3 |
| GALP | 81 | 88.1 | 89.8 | 88.4 | 76 | 89.4 | 79.9 | 92.5 |
| GALR1 | 90.4 | 91.5 | 96.6 | 80.8 | 84.6 | 92.8 | 89 | 84.2 |
| GALR2 | 1143.6 | 1567.7 | 696 | 282.4 | 253.2 | 261.8 | 890.6 | 547.6 |
| GALR3 | 102.6 | 110.1 | 101.8 | 84.6 | 83.3 | 84.4 | 99.6 | 99 |
| GALT | 1267.6 | 1427.1 | 626.3 | 506.4 | 489.6 | 547.6 | 1073.9 | 887.2 |
| GALT | 373.7 | 420.7 | 310.9 | 206.8 | 214.5 | 235.4 | 268.9 | 311.3 |
| GAMT | 2256.7 | 2850.2 | 1862.1 | 1378.3 | 1182.6 | 1337.6 | 2206.7 | 2174.7 |
| GAMT | 118.7 | 146.2 | 84.3 | 84.3 | 73.2 | 87.7 | 98.7 | 124.6 |
| GAMT | 1358.5 | 1880.6 | 1114 | 695.7 | 550.1 | 674.9 | 1182.9 | 1727.5 |
| GAN | 126.6 | 131 | 96.8 | 96.8 | 88.7 | 96.5 | 122.1 | 134.1 |
| GANAB | 448.3 | 513.3 | 414.9 | 398 | 358.9 | 383.3 | 443.7 | 579.5 |
| GANC | 95.6 | 112.7 | 104.8 | 90.3 | 90.2 | 103.1 | 90.1 | 124.4 |
| GAP43 | 90.8 | 120.3 | 90.4 | 86.2 | 84.1 | 81.7 | 92.3 | 100.6 |
| GAPDH | 5031 | 6904.7 | 2742.7 | 2418.3 | 1472.3 | 2170.7 | 4072.8 | 6066 |
| GAPDH | 2544.7 | 3316.8 | 728 | 449.2 | 404.2 | 715.7 | 2368.9 | 3421.8 |
| GAPDH | 12859.3 | 16555.4 | 9670.7 | 5166.5 | 3760.7 | 5378.3 | 11280.8 | 13497.7 |
| GAPDHS | 91.6 | 93.4 | 97.3 | 84.6 | 80.9 | 84.3 | 85.8 | 93.9 |
| GAPVD1 | 1272.1 | 1917.2 | 774.1 | 971.5 | 782.6 | 1238.9 | 1402.8 | 1789.8 |
| GARNL1 | 262.7 | 333.9 | 169.1 | 167.4 | 159.9 | 224.3 | 286.5 | 376.3 |
| GARNL3 | 94.5 | 108.1 | 94.5 | 95.7 | 99.4 | 97 | 83.8 | 92.6 |
| GARNL4 | 138.4 | 187.2 | 146.6 | 130.6 | 158.1 | 169 | 138.5 | 165.8 |
| GARS | 4218.1 | 5981.4 | 3056.1 | 1760 | 1196.9 | 2356.3 | 4978.1 | 9277.3 |
| GART | 1759.8 | 2379.3 | 1748.5 | 1659 | 1122.3 | 1938.7 | 1371.4 | 2049.2 |
| GART | 1100.5 | 1617.5 | 432.9 | 315.3 | 238.4 | 330.4 | 777.4 | 907.6 |
| GART | 108.1 | 124.7 | 101.5 | 100.5 | 89.4 | 94.8 | 103.8 | 107.3 |
| GAS1 | 134 | 158.1 | 120.7 | 100.2 | 96.7 | 100.3 | 130.5 | 164.6 |
| GAS2 | 82.5 | 78.5 | 96 | 91.7 | 86 | 78.4 | 75.6 | 80.6 |
| GAS2 | 91.2 | 97 | 85.7 | 88.1 | 80.8 | 78 | 76.3 | 99.8 |
| GAS2L1 | 106 | 121 | 111.4 | 100 | 92.1 | 105.6 | 112.7 | 124.7 |
| GAS2L1 | 89.7 | 103.5 | 99.8 | 90.2 | 88.9 | 102.6 | 79.9 | 104.8 |
| GAS2L1 | 92.5 | 115.5 | 95.8 | 85.1 | 74.8 | 88.6 | 83.3 | 108 |
| GAS2L2 | 133.9 | 177.2 | 92.4 | 84.3 | 84.3 | 96.8 | 144.1 | 159.9 |
| GAS2L3 | 198.8 | 239.9 | 152.6 | 217.3 | 188.6 | 194.3 | 186.7 | 198.9 |
| GAS6 | 852.2 | 1043.3 | 891.6 | 1450.7 | 1183 | 1983 | 708.9 | 1365.4 |
| GAS6 | 826.2 | 1067 | 887.5 | 1498.8 | 1168.6 | 1948.4 | 699.7 | 1406.5 |
| GAS6 | 165 | 208.6 | 138 | 162.3 | 142.2 | 112.7 | 145.6 | 170.5 |
| GAS7 | 94.5 | 101.7 | 98.1 | 87.2 | 86.5 | 85.9 | 88.6 | 102.4 |
| GAS7 | 153.9 | 208.4 | 157.2 | 224.8 | 229 | 316.2 | 163.1 | 193.5 |
| GAS7 | 86.9 | 96.5 | 93.6 | 104.6 | 93.6 | 92 | 82.1 | 90.9 |
| GAS7 | 85.4 | 85.3 | 117.5 | 107 | 104.3 | 106.7 | 76.9 | 91.5 |
| GAS8 | 168.8 | 193.4 | 214.9 | 165.2 | 169.8 | 193.2 | 150.5 | 239.3 |
| GAST | 121.4 | 143 | 122.3 | 110.7 | 111.8 | 120 | 113.8 | 135.2 |
| GATA1 | 87.4 | 95.5 | 97.5 | 92.5 | 91 | 90.9 | 85.3 | 91.6 |
| GATA2 | 212.6 | 286.6 | 228.7 | 132.8 | 113.8 | 136.4 | 217.5 | 324 |
| GATA3 | 92.7 | 89.9 | 94.6 | 98.7 | 85 | 97.4 | 100.5 | 87.1 |
| GATA4 | 84.3 | 95.4 | 94.8 | 86.7 | 87.1 | 85.6 | 87.1 | 93 |
| GATA5 | 87.7 | 93.9 | 99.8 | 94.2 | 92.9 | 83.1 | 87.4 | 87.6 |
| GATA6 | 96 | 107.7 | 85.5 | 89.6 | 82.1 | 87.2 | 97.4 | 99.8 |
| GATAD1 | 237.4 | 369.9 | 143.9 | 152.7 | 152.7 | 223.9 | 233.5 | 383.3 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| GATAD2A | 1763.3 | 2271.4 | 1636.3 | 1504.5 | 1111.8 | 1592.7 | 1667.5 | 1842.7 |
| GATAD2B | 240.2 | 352.7 | 208.8 | 250.4 | 234.8 | 353.7 | 223.2 | 427.4 |
| GATM | 390.3 | 601.8 | 269.8 | 259.1 | 255.5 | 409.4 | 257.9 | 370 |
| GATS | 166.6 | 229.8 | 147.7 | 177.5 | 177.8 | 161 | 154.1 | 158.8 |
| GBA | 938.3 | 1291 | 950.6 | 828 | 673.9 | 856 | 807.9 | 1174.6 |
| GBA2 | 201.6 | 247.4 | 225.1 | 155.8 | 142.2 | 203.7 | 184.5 | 253.4 |
| GBA3 | 77.2 | 84 | 99.9 | 93.5 | 90 | 95.9 | 78.7 | 82.9 |
| GBAS | 1022.6 | 1181.4 | 640.5 | 775.4 | 516.7 | 1046.3 | 862.5 | 1584.3 |
| GBE1 | 947.4 | 1357.6 | 500.1 | 763 | 566 | 1243.7 | 741.6 | 1200.1 |
| GBF1 | 181.7 | 235.5 | 181.8 | 196.6 | 172.1 | 253.2 | 169.6 | 201.4 |
| GBGT1 | 470.6 | 536 | 269.3 | 120.7 | 110.3 | 131.7 | 295.3 | 292 |
| GBL | 467.6 | 550.1 | 373.7 | 282.8 | 224.9 | 339.9 | 433.3 | 830.4 |
| GBP1 | 94.6 | 108.3 | 89.4 | 90.6 | 96 | 96.5 | 100.5 | 101.9 |
| GBP2 | 220.1 | 277.6 | 163.7 | 243.8 | 235.5 | 312.1 | 212.2 | 220.1 |
| GBP3 | 195 | 229.2 | 133.7 | 124.3 | 113.2 | 145.6 | 168.3 | 187.5 |
| GBP4 | 146.4 | 173.5 | 112.9 | 117.7 | 115.3 | 122.6 | 130.6 | 153.7 |
| GBP5 | 126.1 | 147.2 | 105.5 | 141.2 | 125.8 | 162.8 | 119.8 | 133.1 |
| GBP6 | 121.8 | 135.5 | 90.3 | 76.9 | 77.6 | 87.1 | 106.8 | 124.7 |
| GBP7 | 83.4 | 90.5 | 92.7 | 84.5 | 78.1 | 81.4 | 82.4 | 88.1 |
| GBX2 | 138.2 | 175 | 104.8 | 101.3 | 96.8 | 110.7 | 126.5 | 155.3 |
| GC | 88.1 | 104.6 | 93.6 | 78 | 78.5 | 81 | 89.3 | 89.3 |
| GCA | 917.6 | 1090.5 | 477.1 | 551.4 | 427.9 | 629.2 | 633.1 | 1103.9 |
| GCAT | 340.6 | 443 | 209.2 | 221.3 | 214.4 | 275.6 | 320.7 | 488.1 |
| GCC1 | 453.2 | 588.8 | 266.9 | 250.4 | 246.8 | 363.9 | 464.1 | 615.9 |
| GCC2 | 109.6 | 127.3 | 101.1 | 94.2 | 91.3 | 98.1 | 104.6 | 116.2 |
| GCC2 | 73.9 | 80.6 | 83.4 | 86.3 | 86 | 82 | 72.4 | 78.2 |
| GCC2 | 111.9 | 129.4 | 94.8 | 88.3 | 82 | 110.3 | 105.2 | 121.9 |
| GCDH | 206.1 | 233.3 | 169.6 | 146.4 | 131.9 | 196.3 | 173.3 | 218.2 |
| GCDH | 544.5 | 674.8 | 253.1 | 219.6 | 174.2 | 257.3 | 425.2 | 527.7 |
| GCET2 | 112.4 | 118 | 91.7 | 80.6 | 82.2 | 80.4 | 109.5 | 104.4 |
| GCET2 | 136.4 | 137 | 90 | 81.7 | 87.1 | 88.9 | 110.4 | 131.3 |
| GCG | 95.4 | 112.8 | 97 | 97.8 | 89.2 | 99.9 | 97.8 | 102.3 |
| GCGR | 90.6 | 97.3 | 89.9 | 93.8 | 90 | 88.1 | 92.7 | 85.2 |
| GCH1 | 136.7 | 162.8 | 102 | 104 | 96.2 | 96 | 124.4 | 148 |
| GCH1 | 115.5 | 134.8 | 104.9 | 103 | 89.6 | 93.3 | 95.9 | 116 |
| GCH1 | 147.9 | 149.8 | 89.4 | 83.9 | 84.5 | 87.3 | 122.6 | 183 |
| GCHFR | 631.2 | 760.8 | 505.1 | 365.4 | 355 | 464.1 | 539.4 | 557.3 |
| GCK | 97.3 | 100.7 | 84.7 | 77.5 | 80.9 | 87.7 | 97.8 | 105.2 |
| GCK | 79.6 | 91.5 | 89 | 80.5 | 86.5 | 91.6 | 78.9 | 84.9 |
| GCK | 103.6 | 112.8 | 88.3 | 84.7 | 79.3 | 83.8 | 104.6 | 114 |
| GCKR | 90 | 110.9 | 105.9 | 89.3 | 91.4 | 98.5 | 92.5 | 97.1 |
| GCLC | 87.5 | 87.7 | 89.8 | 82.5 | 80.3 | 88.5 | 81.3 | 99.3 |
| GCLM | 163.8 | 188.7 | 154.9 | 157.3 | 133.1 | 134 | 561.9 | 1602.3 |
| GCM1 | 105.3 | 114.7 | 95.6 | 91.4 | 92.7 | 92.7 | 99.5 | 117 |
| GCM2 | 74.9 | 86.5 | 108.3 | 94 | 87 | 87.5 | 86.8 | 85.8 |
| GCN1L1 | 697.8 | 914 | 296.1 | 316.9 | 266.3 | 471.1 | 675.3 | 713.2 |
| GCN5L2 | 1778.4 | 2115.8 | 931.4 | 1017.8 | 932.3 | 1160.2 | 970.9 | 998.4 |
| GCNT1 | 88 | 114.2 | 86.7 | 85.2 | 87.2 | 93.2 | 92.5 | 100.5 |
| GCNT2 | 83.3 | 86.6 | 90 | 72.9 | 97.9 | 81.3 | 85.7 | 87.3 |
| GCNT2 | 88.2 | 94.6 | 97.9 | 87.6 | 90.1 | 90.6 | 87.6 | 95.8 |

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|-----------|--------|--------|--------|-------|-------|-------|--------|--------|
| GCNT2 | 119.1 | 144 | 105.7 | 111.8 | 111.6 | 115.9 | 131.1 | 164.1 |
| GCNT2 | 90.2 | 107.2 | 98.7 | 91.7 | 87.7 | 93.1 | 90.6 | 97.3 |
| GCNT3 | 71.5 | 85.6 | 98 | 78.6 | 80.8 | 86.3 | 73.9 | 87.9 |
| GCOM1 | 96.7 | 100.5 | 98.6 | 88.4 | 97 | 88.1 | 94.7 | 97.9 |
| GCOM1 | 106.7 | 118.4 | 93.6 | 93.5 | 88.8 | 96.1 | 101.5 | 125.6 |
| GCOM1 | 98.9 | 101.8 | 94.2 | 94.5 | 86.8 | 94.3 | 87.9 | 95.2 |
| GCOM1 | 89.7 | 110.8 | 107.8 | 111.1 | 95.6 | 102.3 | 85.1 | 101 |
| GCS1 | 232.3 | 296.2 | 231.1 | 191 | 143.6 | 202.3 | 168.7 | 271.4 |
| GCSH | 598.2 | 759.2 | 280.7 | 271.4 | 213.9 | 251.4 | 449.5 | 513.8 |
| GDA | 91.9 | 92.2 | 94.4 | 78.2 | 80 | 80.2 | 101.5 | 98.5 |
| GDAP1 | 125.7 | 167.9 | 102.9 | 89.3 | 80 | 89.8 | 108.2 | 119.6 |
| GDAP1 | 168.8 | 214.2 | 115.8 | 104.1 | 95.3 | 91.7 | 126.3 | 127.6 |
| GDAP1L1 | 111.1 | 127.3 | 104.7 | 94.1 | 81.6 | 86 | 105.5 | 124.7 |
| GDAP2 | 239.7 | 336.6 | 203 | 172.9 | 144.1 | 217.7 | 202.6 | 264 |
| GDDR | 106.1 | 120.4 | 106.4 | 97.5 | 95.2 | 92.5 | 94.8 | 122.1 |
| GDF1 | 107.4 | 115.2 | 95 | 92.2 | 84.2 | 91 | 101 | 136.3 |
| GDF10 | 90.5 | 93.1 | 83.8 | 83.9 | 86.4 | 81.7 | 85.9 | 91.9 |
| GDF11 | 130.7 | 180.8 | 94.2 | 81.7 | 79.7 | 88.5 | 127 | 153.9 |
| GDF15 | 91.3 | 103.6 | 116.3 | 100.5 | 92.8 | 101.1 | 98.3 | 101.3 |
| GDF2 | 78.8 | 77.9 | 98.1 | 78.1 | 84.2 | 87.9 | 85.1 | 80.3 |
| GDF3 | 89.8 | 92.6 | 105.3 | 112.6 | 90 | 97.2 | 89 | 91.7 |
| GDF5 | 99.1 | 113 | 97.1 | 97.8 | 89.8 | 89.1 | 97.5 | 90.8 |
| GDF6 | 94.2 | 96.6 | 91.6 | 79.3 | 75.3 | 73.2 | 86.4 | 97.2 |
| GDF7 | 147.1 | 143 | 101.1 | 89.3 | 92.6 | 87.5 | 136.4 | 144.1 |
| GDF8 | 89.7 | 98.3 | 92.9 | 86.7 | 90.8 | 90.4 | 86.6 | 102.6 |
| GDF9 | 96.2 | 108 | 104.5 | 94.8 | 92.7 | 99.2 | 88.5 | 86.5 |
| GDI1 | 265.8 | 285 | 207.1 | 173.9 | 198.9 | 282.7 | 228.8 | 606.4 |
| GDI2 | 3342.9 | 4710.9 | 1116.7 | 952.1 | 622.9 | 1347 | 2917.3 | 5812.2 |
| GDNF | 92 | 104.7 | 99.7 | 101.9 | 89.8 | 89.8 | 94.8 | 100.8 |
| GDNF | 95 | 112.6 | 85.5 | 83.2 | 81.5 | 73.5 | 84.8 | 98.3 |
| GDNF | 136.6 | 156.9 | 93.6 | 82.9 | 85.3 | 85 | 134 | 144 |
| GDPD1 | 223.1 | 245.8 | 137.5 | 153.6 | 149.2 | 169.2 | 206.1 | 307.2 |
| GDPD2 | 102.6 | 137.5 | 99.9 | 82.9 | 88.5 | 96.7 | 99.6 | 104.2 |
| GDPD3 | 121.1 | 149.4 | 112.4 | 101.5 | 112.9 | 114.1 | 125.9 | 149.6 |
| GDPD3 | 82.8 | 104.3 | 96.8 | 81.9 | 78.8 | 91.1 | 93.2 | 112.1 |
| GDPD4 | 113.2 | 139.5 | 99.7 | 85.5 | 79.1 | 84.7 | 108.8 | 132.2 |
| GDPD5 | 156.1 | 190.3 | 177.7 | 189.4 | 164.5 | 254.6 | 140.2 | 253.4 |
| GEFT | 105.7 | 114.8 | 92.2 | 95.4 | 89 | 84 | 102.6 | 131.5 |
| GEFT | 107.2 | 122.8 | 100.5 | 87.3 | 80 | 94 | 105.4 | 111.4 |
| GEFT | 105.8 | 125.7 | 112.8 | 103 | 96.1 | 109.8 | 101.8 | 106.8 |
| GEM | 98 | 117.9 | 90.8 | 90.8 | 83.2 | 78.6 | 95.5 | 115.7 |
| GEM | 105.1 | 116.9 | 97.1 | 101.5 | 94.3 | 99.9 | 108.7 | 129.1 |
| GEMIN4 | 1401.3 | 1837.5 | 1063.4 | 895.3 | 620.5 | 785.2 | 940.6 | 918.2 |
| GEMIN5 | 305.4 | 413.5 | 287.4 | 183.1 | 146.9 | 268.8 | 223 | 278 |
| GEMIN6 | 1743.2 | 2135.1 | 1152.7 | 672.4 | 496.3 | 813.7 | 1288.3 | 1465.8 |
| GEMIN7 | 122 | 147.8 | 92.6 | 87.2 | 79.1 | 81.6 | 121.2 | 144.8 |
| GEMIN7 | 84.9 | 93.3 | 98.8 | 95.6 | 90.4 | 92.6 | 95.7 | 97.7 |
| GEMIN8 | 145.7 | 185.5 | 134 | 113.9 | 95.8 | 123.3 | 129.4 | 156.4 |
| GENX-3414 | 185.2 | 240.2 | 131 | 106.3 | 106.1 | 125.7 | 188.1 | 243.9 |
| GFAP | 100.7 | 113.9 | 97.3 | 91.4 | 82.5 | 91.5 | 99.2 | 103.9 |

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|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| GFER | 138.9 | 144.6 | 86.3 | 88.7 | 79.9 | 89.4 | 111 | 173.4 |
| GFI1 | 2555.8 | 3003.9 | 2099.2 | 1492.1 | 1028.3 | 1856.9 | 1611.3 | 2441.4 |
| GFI1B | 90.6 | 96.2 | 89.6 | 89 | 91.3 | 102.9 | 85.1 | 91.1 |
| GFM1 | 1534.1 | 1906 | 771.4 | 881.1 | 641.4 | 1198.5 | 1236.7 | 1815.5 |
| GFM2 | 155.5 | 199.4 | 103.4 | 84.5 | 85.1 | 142.4 | 136.2 | 187.5 |
| GFOD1 | 227.3 | 273.3 | 140 | 146 | 142.9 | 175.2 | 186.1 | 228.5 |
| GFPT1 | 389.9 | 521 | 215.1 | 264.7 | 243.1 | 330 | 397.8 | 741.2 |
| GFPT2 | 85.5 | 92.9 | 104 | 99.5 | 104.2 | 109 | 78.2 | 90.5 |
| GFRA1 | 130.7 | 136.9 | 90.1 | 86.6 | 81.5 | 94.4 | 104.5 | 122.9 |
| GFRA1 | 96.6 | 121.5 | 93.3 | 92.9 | 101.4 | 91.6 | 106.3 | 100.9 |
| GFRA1 | 117.3 | 124.7 | 105 | 101.8 | 94 | 92.7 | 102.3 | 111.3 |
| GFRA2 | 183.2 | 207.2 | 167.9 | 201.3 | 190.6 | 243.8 | 154.6 | 190.5 |
| GFRA3 | 83.4 | 88.9 | 106.3 | 105.4 | 94.5 | 110 | 81.5 | 110.3 |
| GFRA4 | 80 | 86 | 93.1 | 93.5 | 80.9 | 88.5 | 82.2 | 86.1 |
| GFRA4 | 109.7 | 121.6 | 133.2 | 103.3 | 105.1 | 125 | 114.2 | 123.7 |
| GGA1 | 115 | 112 | 108.2 | 116 | 103.1 | 97.1 | 102 | 113.4 |
| GGA1 | 24053.9 | 23155.8 | 13798.9 | 18055.8 | 16391.7 | 14077.1 | 21515.5 | 28720.8 |
| GGA1 | 124.9 | 131.4 | 108.8 | 105.5 | 95.5 | 92.3 | 115.4 | 137 |
| GGA1 | 132.8 | 134.8 | 90.4 | 92.9 | 112.8 | 88.7 | 120.7 | 135.2 |
| GGA2 | 621.3 | 810.3 | 467.2 | 810.6 | 696.8 | 928.1 | 489 | 533 |
| GGA3 | 243.6 | 268.2 | 221.3 | 176 | 180.8 | 228.5 | 209.6 | 330.6 |
| GGA3 | 280.3 | 357 | 234.5 | 239.7 | 198.2 | 250.5 | 263.3 | 454.1 |
| GGA3 | 109.9 | 131.3 | 95.2 | 81.6 | 71.6 | 86.1 | 113.5 | 168.5 |
| GGCX | 151.4 | 187.7 | 152.7 | 200.4 | 158.3 | 215.5 | 139.2 | 167.3 |
| GGH | 529 | 602.4 | 290.6 | 197.2 | 173.2 | 240.9 | 493.8 | 1009.8 |
| GGN | 75.4 | 84.3 | 90.7 | 82.5 | 80.6 | 85.3 | 75.9 | 80.2 |
| GGPS1 | 141.5 | 178.9 | 132.3 | 131.4 | 122.9 | 139.2 | 134.2 | 165.4 |
| GGPS1 | 2043.7 | 2590.9 | 1002.4 | 984.3 | 658.6 | 1289.1 | 1739 | 3447.5 |
| GGT1 | 78.2 | 91.1 | 93.7 | 105.6 | 102.6 | 99.1 | 81.8 | 99.2 |
| GGT1 | 189.3 | 261.3 | 214.8 | 209.4 | 202.5 | 291.4 | 171.5 | 226.5 |
| GGT3 | 128 | 163.1 | 106.2 | 106.8 | 101.7 | 109.4 | 134.4 | 153.3 |
| GGT6 | 87.8 | 94.8 | 103.6 | 101.5 | 90 | 98.8 | 97.2 | 98.4 |
| GGTA1 | 88.1 | 97.9 | 86.1 | 89.5 | 83.8 | 88.8 | 81.3 | 85.6 |
| GGTL3 | 122.4 | 132.4 | 93.5 | 88.7 | 92.3 | 102.9 | 120.1 | 121.6 |
| GGTL4 | 155.3 | 182.8 | 154.8 | 147.4 | 124.5 | 189.9 | 140.5 | 180.9 |
| GGTLA1 | 118.6 | 111.9 | 93.2 | 88.3 | 85.8 | 94.4 | 115.7 | 116.1 |
| GGTLA4 | 93.9 | 100.8 | 100.7 | 95 | 101.5 | 101.8 | 85.5 | 104.9 |
| GGTLA4 | 141 | 171.4 | 107.5 | 103.2 | 107.9 | 106 | 129.4 | 133.3 |
| GGTLA4 | 121.9 | 133.2 | 103.7 | 101.1 | 100.2 | 89.7 | 119.6 | 112.2 |
| GH1 | 86.7 | 81 | 90.6 | 92.4 | 93 | 91.5 | 82.5 | 89.4 |
| GH1 | 77.9 | 89 | 81.5 | 78.8 | 73.4 | 83.3 | 81.2 | 88.2 |
| GH2 | 75.7 | 85.8 | 92.1 | 89 | 80.9 | 84.8 | 85.4 | 94 |
| GH2 | 80.5 | 97.3 | 93.2 | 89.8 | 79.7 | 88.5 | 86.4 | 94.4 |
| GH2 | 88.4 | 106.8 | 96.1 | 91.5 | 85.8 | 88.1 | 89.8 | 93.3 |
| GHITM | 7486.3 | 10109.9 | 5256.1 | 5136.5 | 3625.9 | 5678.4 | 7799.3 | 8920.7 |
| GHR | 110.1 | 129.5 | 90.8 | 93 | 76.7 | 92.9 | 93 | 90.8 |
| GHRH | 90 | 93.1 | 91 | 93.1 | 88.9 | 80.6 | 89.1 | 95.1 |
| GHRHR | 75.8 | 87.3 | 90.6 | 82.4 | 78.4 | 85.5 | 82.6 | 91.9 |
| GHRHR | 96 | 139.9 | 93.2 | 84.5 | 86.2 | 91.8 | 115.4 | 122 |
| GHRHR | 89.4 | 103.4 | 82.3 | 77.8 | 74.9 | 73.3 | 91.1 | 105.2 |

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|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| GHRL | 150 | 179.3 | 125.5 | 151.3 | 254 | 139.7 | 131.1 | 132.8 |
| GHSR | 82.5 | 96.8 | 89.3 | 84.3 | 77.7 | 86 | 103.8 | 112.8 |
| GHSR | 94.7 | 111.8 | 93 | 94 | 92.4 | 95.1 | 106.5 | 95.2 |
| GIF | 94.9 | 98.8 | 90.6 | 88.9 | 89.1 | 80.8 | 94.2 | 103.6 |
| GIMAP1 | 137.5 | 180 | 91.1 | 89.8 | 78.2 | 101 | 159.9 | 177.7 |
| GIMAP2 | 354.5 | 382.7 | 164.1 | 169.9 | 117.1 | 187 | 256 | 418.9 |
| GIMAP4 | 81.7 | 97.9 | 97.1 | 143.5 | 117.5 | 140.9 | 75.1 | 91.9 |
| GIMAP5 | 204.4 | 261.9 | 179.7 | 143.5 | 136.4 | 199.2 | 177.9 | 262.2 |
| GIMAP6 | 132.3 | 154.7 | 88.2 | 93.2 | 76.8 | 88.5 | 121.9 | 154.5 |
| GIMAP6 | 457.4 | 682.3 | 366.6 | 332.5 | 237.3 | 401 | 422.3 | 480.3 |
| GIMAP7 | 103.8 | 136.5 | 96.7 | 80.7 | 78.8 | 87.6 | 113.1 | 126.9 |
| GIMAP8 | 189.3 | 241.6 | 134.1 | 148.4 | 141.7 | 182 | 179.4 | 208.8 |
| GIOT-1 | 97.9 | 104.1 | 91.4 | 81 | 79.6 | 85.8 | 87.3 | 88.8 |
| GIP | 96.2 | 99.3 | 90.7 | 90.7 | 80.6 | 85 | 95.6 | 100.6 |
| GIPC1 | 106.9 | 121.8 | 85 | 76.8 | 89.6 | 91.6 | 125.4 | 122.4 |
| GIPC1 | 569.1 | 774.6 | 658.9 | 519.9 | 389 | 591.1 | 508.4 | 1119 |
| GIPC2 | 98.1 | 111.9 | 95.3 | 87.7 | 82.3 | 84 | 102.5 | 103.5 |
| GIPC3 | 72.8 | 79.9 | 82.6 | 79.1 | 74.1 | 79.7 | 78 | 81.8 |
| GIPR | 95 | 104.3 | 90.5 | 83 | 79 | 83.5 | 95.5 | 104.3 |
| GIT1 | 143 | 179 | 154.3 | 146 | 140.8 | 176 | 141 | 180.9 |
| GIT2 | 560.2 | 806.5 | 263 | 329.7 | 290.8 | 424 | 407.4 | 463.7 |
| GIT2 | 268 | 359.8 | 178.8 | 169.8 | 165.9 | 176.2 | 221.9 | 263.3 |
| GIYD1 | 522.1 | 601.9 | 216.1 | 155.4 | 136.6 | 150.8 | 348.3 | 498.8 |
| GIYD1 | 254.3 | 355.5 | 183.2 | 116.8 | 120.4 | 103.1 | 197.8 | 226.1 |
| GIYD2 | 77 | 86.6 | 86 | 76.3 | 75.8 | 82.7 | 77.3 | 80.4 |
| GJA1 | 85 | 97.1 | 82.7 | 79.1 | 81.7 | 80 | 102 | 111.6 |
| GJA10 | 77.4 | 89.2 | 92.9 | 94.3 | 97 | 78.9 | 76.6 | 92.3 |
| GJA12 | 126.1 | 158.5 | 119.3 | 99.2 | 101.2 | 109.9 | 131.7 | 114.2 |
| GJA3 | 88.3 | 89.1 | 100.3 | 91.4 | 90.8 | 87 | 71.8 | 89.9 |
| GJA4 | 87 | 97 | 88.4 | 88.2 | 80.8 | 92.2 | 89.2 | 95.8 |
| GJA5 | 165.2 | 192.1 | 108.1 | 98.5 | 87.2 | 87.9 | 154.2 | 151.9 |
| GJA5 | 103.7 | 111.9 | 100.8 | 101.8 | 102.5 | 96.7 | 93.1 | 105.7 |
| GJA7 | 154.3 | 179.2 | 94 | 87.4 | 85.8 | 97.2 | 117.5 | 173.6 |
| GJA7 | 8942.4 | 9033 | 3738.8 | 7031.9 | 6975.8 | 4497.7 | 7583.8 | 8977.9 |
| GJA8 | 111.3 | 117.2 | 109 | 99.8 | 86.1 | 99.9 | 115 | 113.2 |
| GJB1 | 116.8 | 151 | 102.7 | 95.8 | 82.3 | 87.7 | 123.6 | 131.8 |
| GJB2 | 87.6 | 92.3 | 99.7 | 91.8 | 81.6 | 90.3 | 87.6 | 97.2 |
| GJB3 | 135.5 | 190.8 | 85.3 | 90.9 | 82.4 | 93.6 | 142.9 | 170.5 |
| GJB3 | 76.9 | 87.2 | 98.6 | 84.2 | 84.9 | 78.7 | 83.7 | 89 |
| GJB3 | 82.1 | 90.2 | 102.8 | 92 | 87.6 | 89.4 | 90.2 | 84.4 |
| GJB4 | 107 | 148 | 84.9 | 80.4 | 82.7 | 93.6 | 106.7 | 119.9 |
| GJB5 | 85.5 | 117.1 | 90.9 | 84.8 | 75.3 | 81.8 | 85.8 | 112.2 |
| GJB6 | 82.2 | 96.7 | 93.1 | 78.8 | 83.2 | 82.4 | 75.1 | 80 |
| GJB7 | 89.3 | 94.6 | 89.2 | 90.7 | 93.2 | 88.9 | 87.1 | 93.8 |
| GJC1 | 157.9 | 195.5 | 155.2 | 180.7 | 135.3 | 206.5 | 166.3 | 198.5 |
| GJE1 | 106 | 122.8 | 88 | 93 | 76.1 | 88.2 | 101.5 | 122.5 |
| GK | 390.1 | 545.7 | 232.7 | 220.9 | 238.4 | 283.3 | 324.4 | 426.6 |
| GK2 | 335.8 | 424.9 | 172.4 | 162.9 | 148.6 | 155 | 351.2 | 466.2 |
| GKAP1 | 94.2 | 116.3 | 93.3 | 87.3 | 91 | 94.4 | 99.6 | 122.5 |
| GKN1 | 110.3 | 115 | 105.1 | 93.8 | 88.1 | 95.2 | 99.1 | 116.3 |

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|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| GLA | 5038.6 | 6595.1 | 3564 | 2868.8 | 2400.8 | 3007.2 | 5575.1 | 6696.8 |
| GLB1 | 2653 | 3311.3 | 2384.3 | 3067.6 | 2417.3 | 3071.2 | 2407.9 | 3109.7 |
| GLB1 | 105.7 | 96 | 91.3 | 89.5 | 88 | 86.6 | 100.6 | 91.2 |
| GLB1 | 1728.1 | 2261.8 | 2009.4 | 2945.3 | 2170.6 | 2744.7 | 1635.6 | 2575.6 |
| GLB1L | 135.7 | 160 | 107.3 | 100.8 | 100.4 | 105.6 | 121.6 | 127.8 |
| GLCCI1 | 209.7 | 219.7 | 157.9 | 186.6 | 174.2 | 214.4 | 175.7 | 243.1 |
| GLCE | 278.2 | 391.5 | 183.9 | 223.3 | 168.7 | 257.5 | 248.1 | 383.2 |
| GLDC | 579.4 | 737.9 | 560.3 | 135.7 | 117.3 | 156.9 | 365.7 | 438.2 |
| GLDN | 77.5 | 85.7 | 88.5 | 84 | 86.9 | 82.4 | 79.9 | 91.3 |
| GLE1L | 2014.9 | 2405.8 | 1395.2 | 1056 | 878.9 | 1267.3 | 1507.2 | 1854.6 |
| GLE1L | 384.7 | 498 | 243.4 | 159.5 | 140.1 | 179.9 | 289.5 | 313.7 |
| GLG1 | 2054.3 | 2630.8 | 995.9 | 1002.9 | 854.7 | 1142.6 | 1745.1 | 1821.9 |
| GLI1 | 141.6 | 172.4 | 139.3 | 110.3 | 117 | 117.7 | 136.5 | 149 |
| GLI2 | 90.2 | 94.5 | 81.1 | 91.4 | 88.6 | 81.1 | 105.3 | 105.9 |
| GLI3 | 113.5 | 121.8 | 105.5 | 104.5 | 96.8 | 99.5 | 115.9 | 112.3 |
| GLI4 | 112.9 | 125.8 | 135 | 112.2 | 104 | 113.5 | 100.5 | 124 |
| GLIPR1 | 531 | 676.3 | 256.6 | 511.4 | 457.4 | 482.4 | 447.7 | 486.6 |
| GLIS1 | 74 | 91 | 94.9 | 99 | 84.9 | 89.8 | 81.3 | 83.8 |
| GLIS2 | 78.7 | 85.1 | 96.3 | 73.6 | 86 | 85.8 | 85.2 | 82 |
| GLIS3 | 97.3 | 95.7 | 98.9 | 88.6 | 88.6 | 87.5 | 99.9 | 101.2 |
| GLIS3 | 94.4 | 106.4 | 92.9 | 82 | 84.1 | 88.6 | 102.2 | 90.6 |
| GLIS3 | 83.5 | 97.8 | 87.7 | 97.3 | 86.9 | 88.9 | 84.4 | 91.8 |
| GLMN | 90.8 | 96.1 | 95.8 | 94 | 93.4 | 96.8 | 90.9 | 88.8 |
| GLMN | 1216 | 1474.4 | 592.1 | 750.9 | 589.7 | 1038.7 | 934.1 | 1317.2 |
| GLO1 | 16875.4 | 19985.5 | 17599.4 | 17196.1 | 11837.8 | 25030.3 | 13422 | 20951.3 |
| GLOXD1 | 274.2 | 331.7 | 247.4 | 145.9 | 125.9 | 140.8 | 194.5 | 217.5 |
| GLP1R | 84 | 95.1 | 99.1 | 94 | 85.5 | 86.2 | 88.2 | 88.6 |
| GLP2R | 79.9 | 92.9 | 78.2 | 85.4 | 78.9 | 78.3 | 89.8 | 92.2 |
| GLRA1 | 95.7 | 102.3 | 89.3 | 87.9 | 92.4 | 86.1 | 112 | 107.2 |
| GLRA2 | 102.4 | 95.7 | 83.1 | 78.6 | 82.6 | 87.2 | 104.9 | 117.6 |
| GLRA3 | 79.3 | 96.8 | 89.8 | 93.8 | 83.1 | 89 | 91.9 | 95.9 |
| GLRA3 | 81.2 | 98.2 | 86.1 | 78.4 | 81.1 | 87.6 | 91.8 | 92.9 |
| GLRB | 218.9 | 275.2 | 172.7 | 169.3 | 154.4 | 204.4 | 180.1 | 324.3 |
| GLRX | 961.2 | 1070.9 | 243.9 | 446.4 | 321.6 | 548.2 | 926.4 | 1114.1 |
| GLRX2 | 433.7 | 580.9 | 440.7 | 337.7 | 267.1 | 411.1 | 412 | 401.2 |
| GLRX2 | 127.6 | 157.9 | 102 | 100 | 92.6 | 98.9 | 133.7 | 136.8 |
| GLRX2 | 991.3 | 1189.9 | 323.9 | 260.8 | 226.3 | 310.3 | 1077.9 | 1810.7 |
| GLRX5 | 8591.9 | 11601.8 | 5045.8 | 4421.3 | 3423.5 | 4631.9 | 7929.7 | 8658.9 |
| GLS | 318.9 | 406.4 | 187.3 | 185.9 | 176.3 | 235.6 | 278.8 | 372.7 |
| GLS2 | 92.4 | 104.7 | 92.3 | 78 | 85.2 | 81.1 | 88.4 | 94 |
| GLS2 | 76 | 86.8 | 91.5 | 88.5 | 86.8 | 79.9 | 74.4 | 84.2 |
| GLT1D1 | 122.7 | 135.1 | 78.7 | 82.6 | 76.3 | 80.1 | 103.6 | 143.2 |
| GLT25D1 | 2827.5 | 3604.5 | 3777.2 | 2855.2 | 2510.5 | 3180.9 | 2384 | 3356.6 |
| GLT25D2 | 120 | 146.7 | 136 | 113.2 | 110 | 124.3 | 112.9 | 127.8 |
| GLT6D1 | 93.3 | 93.5 | 87.7 | 87.8 | 88.4 | 93.5 | 99.1 | 93.6 |
| GLT8D1 | 380.5 | 458.6 | 135.9 | 144.1 | 130.2 | 141.5 | 276.3 | 364.8 |
| GLT8D1 | 91.9 | 100.2 | 101 | 89 | 84.4 | 89.5 | 80.9 | 87.2 |
| GLT8D1 | 163.2 | 199.5 | 116.8 | 93 | 91.1 | 112 | 141.9 | 227.8 |
| GLT8D1 | 128.1 | 150.5 | 114.2 | 102.2 | 84.3 | 96 | 119.8 | 114.4 |
| GLT8D2 | 91.1 | 102 | 101.5 | 87.7 | 93.8 | 94 | 97.3 | 102.7 |

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|---------|---------|---------|--------|--------|--------|---------|---------|---------|
| GLTP | 1172.2 | 1537.3 | 938.9 | 799.8 | 600.8 | 869.1 | 1126 | 1472.2 |
| GLTSCR1 | 245.5 | 314.2 | 227.8 | 183.4 | 197.4 | 196.5 | 238 | 256.7 |
| GLTSCR2 | 10992.3 | 14523.8 | 9153.3 | 8099 | 7818.6 | 10174.4 | 11775.6 | 12934.6 |
| GLUD1 | 2304 | 3224.4 | 1580.9 | 1114.3 | 979.9 | 1713.1 | 1997.2 | 2969.9 |
| GLUD2 | 238.9 | 268.6 | 132.7 | 139.3 | 104.1 | 126.6 | 175.8 | 245.3 |
| GLUL | 212.7 | 276.5 | 136.8 | 107.1 | 104.9 | 98.2 | 188.3 | 227.8 |
| GLUL | 81.5 | 95.1 | 104.5 | 96.9 | 94.8 | 96.7 | 77.8 | 80.2 |
| GLUL | 85.3 | 106.2 | 101 | 93.3 | 93.1 | 91.7 | 90.8 | 90.6 |
| GLULD1 | 87.7 | 88.2 | 84.4 | 86.9 | 79.2 | 85 | 85.2 | 88.9 |
| GLYAT | 95.2 | 110.5 | 98.5 | 82.1 | 86.2 | 84.2 | 106.3 | 100.7 |
| GLYAT | 97.7 | 109.4 | 96.6 | 92.8 | 80.8 | 98.8 | 93.5 | 113.7 |
| GLYAT | 121 | 154.2 | 84.4 | 80.9 | 79.3 | 83.1 | 120.4 | 142 |
| GLYATL1 | 96.9 | 103.8 | 101.9 | 88.4 | 96.6 | 95 | 92.2 | 99.4 |
| GLYATL2 | 77.9 | 92.6 | 87.7 | 82.1 | 86.7 | 83.4 | 82.1 | 85.6 |
| GLYCAM1 | 81.8 | 88.3 | 85.8 | 88.1 | 81 | 89.2 | 83.9 | 94.9 |
| GLYCTK | 170.1 | 202.5 | 144.8 | 114.5 | 116.4 | 136.6 | 147.1 | 165.7 |
| GM2A | 191 | 269.1 | 151.7 | 184.2 | 141.3 | 147.2 | 173 | 234.6 |
| GM632 | 323.4 | 358.8 | 230.8 | 238.5 | 199.7 | 225.5 | 222.4 | 203.7 |
| GMCL1 | 931.6 | 1190.2 | 363.4 | 490.5 | 338.1 | 435.5 | 686.2 | 1190.4 |
| GMCL1L | 79.5 | 76 | 100.7 | 89.3 | 82.5 | 99.8 | 74.7 | 77.2 |
| GMDS | 1093.3 | 1382.7 | 764.2 | 747.3 | 618.9 | 675.4 | 896.2 | 912.9 |
| GMEB1 | 286.8 | 376.8 | 179.9 | 205.9 | 182.9 | 212.5 | 236.4 | 375 |
| GMEB1 | 270.9 | 389.5 | 207.2 | 208.6 | 161.7 | 192.2 | 202.5 | 335.7 |
| GMEB2 | 547.2 | 598.8 | 456.8 | 527.1 | 400.5 | 541.3 | 459 | 582.8 |
| GMFB | 2294.9 | 3068.5 | 1845.2 | 1773.7 | 1472 | 2138.8 | 1957.7 | 3022.3 |
| GMFG | 5293.7 | 6462.4 | 1875.9 | 1425.3 | 1204 | 1798.6 | 5177.9 | 6408.8 |
| GMIP | 142.9 | 181 | 192.3 | 230.3 | 186 | 270 | 159.3 | 291.2 |
| GML | 114.2 | 108.5 | 80.4 | 81 | 80.4 | 91.4 | 97.7 | 137.4 |
| GMNN | 768.5 | 929.8 | 305.7 | 312.5 | 257.3 | 402.5 | 670 | 1268.9 |
| GMPPA | 578.5 | 733.2 | 552.1 | 398.8 | 334.1 | 493.9 | 492.9 | 763.6 |
| GMPPA | 210.1 | 257.2 | 110.4 | 112.6 | 97.4 | 110.2 | 204.8 | 248.2 |
| GMPPB | 514.3 | 626.9 | 413.6 | 245.4 | 219.6 | 290.5 | 431.1 | 444.3 |
| GMPPB | 256.7 | 291.9 | 153.6 | 137.4 | 122.5 | 143.2 | 222.8 | 231.9 |
| GMPPB | 95.2 | 96.9 | 98.7 | 100.3 | 85.3 | 87.4 | 89.4 | 91.7 |
| GMPR | 114.5 | 125.1 | 98.7 | 97.4 | 91.9 | 99.7 | 108.9 | 113.6 |
| GMPR2 | 1013.8 | 1260.2 | 395.5 | 235 | 263 | 328.6 | 857.9 | 1307.2 |
| GMPR2 | 151.6 | 191.1 | 110.4 | 93.9 | 89 | 85.6 | 144.8 | 158.1 |
| GMPR2 | 1923.7 | 2373.2 | 728.9 | 667 | 546.9 | 894.8 | 1844.7 | 2437.1 |
| GNA11 | 139.6 | 195.5 | 187.1 | 182.4 | 182.5 | 209.6 | 133.9 | 176.9 |
| GNA12 | 553.3 | 656.6 | 437.2 | 512.7 | 379.8 | 486.8 | 460 | 579.1 |
| GNA13 | 430 | 512.6 | 190.5 | 201.7 | 193 | 273.7 | 383.1 | 780.4 |
| GNA14 | 129.6 | 169.6 | 126.8 | 117.9 | 117.1 | 135.1 | 123.7 | 139.6 |
| GNA15 | 996.2 | 1205.9 | 922 | 867.1 | 909 | 871 | 1128.8 | 1264.4 |
| GNAI1 | 97.5 | 105.2 | 96.6 | 82 | 89.9 | 91 | 93.5 | 110.9 |
| GNAI2 | 2162.4 | 3025.8 | 2061.7 | 2118.3 | 1798.7 | 2603.1 | 2049.3 | 5185.4 |
| GNAI3 | 532.6 | 719.2 | 245.8 | 234.8 | 182.1 | 259.2 | 500.1 | 819.6 |
| GNAL | 98.5 | 124.9 | 93.7 | 87.3 | 90.3 | 90.4 | 91.1 | 107.8 |
| GNAL | 81.6 | 91.5 | 98.7 | 96.8 | 100 | 93.3 | 91.9 | 97.1 |
| GNAO1 | 87.5 | 102.9 | 101.3 | 87.2 | 74.1 | 89.4 | 91.4 | 88.3 |
| GNAO1 | 98.6 | 105.8 | 108.8 | 94.4 | 83.6 | 93.9 | 99.6 | 95.6 |

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|---------|---------|---------|---------|---------|--------|---------|---------|---------|
| GNAO1 | 97.7 | 106.4 | 97.5 | 89.3 | 81.9 | 91.7 | 102.4 | 100.6 |
| GNAQ | 404 | 590.6 | 245.2 | 268.2 | 255.8 | 434.6 | 258.5 | 407.2 |
| GNAS | 170.1 | 211.2 | 122.9 | 110.1 | 104.4 | 107.8 | 156.7 | 188.7 |
| GNAS | 84.8 | 80.8 | 87.3 | 80.9 | 77.4 | 88.7 | 78 | 86.6 |
| GNAS | 12308.9 | 17489 | 11285.1 | 10667.2 | 9130.4 | 14240.3 | 10876.6 | 18444.2 |
| GNAT1 | 106 | 132.2 | 102.1 | 95.6 | 97.4 | 100 | 110.8 | 130.4 |
| GNAT1 | 106.3 | 125.2 | 102.6 | 102.5 | 92.6 | 96.8 | 107.9 | 113.2 |
| GNAT2 | 112.9 | 126.4 | 90.1 | 86.7 | 87.9 | 93.7 | 106.9 | 153.4 |
| GNAZ | 113.7 | 121.5 | 97.9 | 88.6 | 85 | 84.3 | 104.3 | 126.2 |
| GNB1 | 6125.8 | 7617.9 | 4051.6 | 4277.2 | 3407.9 | 4875.8 | 5711.4 | 6138.8 |
| GNB1L | 213.6 | 294.4 | 142.4 | 95.9 | 91.5 | 100.3 | 234.9 | 240.1 |
| GNB2 | 203.5 | 270.7 | 206.6 | 150.6 | 129 | 174.5 | 182 | 402.1 |
| GNB2L1 | 26198.1 | 25237.2 | 19745 | 18548.9 | 15417 | 18606.8 | 27742.7 | 24569.4 |
| GNB3 | 101.4 | 120 | 96 | 91.8 | 86.9 | 86 | 103.9 | 115.3 |
| GNB4 | 210.5 | 328.5 | 155.9 | 111.6 | 107.8 | 89.4 | 271.3 | 308.4 |
| GNB5 | 737 | 1082.4 | 338.6 | 381.3 | 357.8 | 277.5 | 680.3 | 999 |
| GNB5 | 166.2 | 229.2 | 160.2 | 165.3 | 146.5 | 146.8 | 192.3 | 273.9 |
| GNB5 | 105.1 | 105 | 92 | 88.3 | 71.2 | 89.2 | 100.8 | 112.3 |
| GNE | 925.9 | 1230.7 | 259.7 | 333.5 | 282.6 | 394.8 | 860.5 | 1237.5 |
| GNG10 | 2519 | 3560.5 | 1028.8 | 729.2 | 589.9 | 819.2 | 1776.3 | 2099.5 |
| GNG11 | 122.7 | 165.1 | 119.1 | 87.9 | 81.4 | 93.8 | 179 | 221.8 |
| GNG12 | 116.6 | 130.8 | 110.7 | 95.9 | 97.5 | 108.7 | 111.3 | 137.6 |
| GNG13 | 80.7 | 87.7 | 90.9 | 84.8 | 88.7 | 85.7 | 78 | 82.4 |
| GNG2 | 85 | 98.2 | 96.7 | 92.7 | 92.1 | 96.6 | 87.4 | 96.4 |
| GNG3 | 110.6 | 140.4 | 98 | 80.2 | 90.3 | 92.2 | 103.7 | 136.9 |
| GNG4 | 407.3 | 545.6 | 387.3 | 161.5 | 128.1 | 169.2 | 361 | 554.9 |
| GNG5 | 832.4 | 961.5 | 417.1 | 436.4 | 295.8 | 404.6 | 742.8 | 1628.3 |
| GNG7 | 171.7 | 215 | 136.2 | 151.5 | 151.6 | 189.2 | 167.9 | 187.7 |
| GNG8 | 84.2 | 88.7 | 88 | 86.4 | 81 | 83.3 | 95.3 | 88.5 |
| GNGT1 | 109.6 | 135.9 | 97.3 | 87.4 | 92.1 | 99.5 | 108 | 120.1 |
| GNGT2 | 101.7 | 126.7 | 87.1 | 82.5 | 85.5 | 89.1 | 106.8 | 119.2 |
| GNL1 | 541.3 | 789.1 | 336.2 | 218.6 | 194 | 232.8 | 407.6 | 360.3 |
| GNL2 | 4315.4 | 5430.6 | 1724.3 | 1734.4 | 1429.9 | 2984.6 | 3458.1 | 4272.6 |
| GNL3 | 2699.9 | 3312.7 | 800.8 | 690.6 | 625.2 | 1223.6 | 1866.3 | 2934.1 |
| GNL3 | 4325.9 | 5607.8 | 2439.6 | 1774.4 | 1326.3 | 3071.1 | 2708.2 | 3540.1 |
| GNL3 | 155.9 | 175.8 | 115 | 102 | 109.3 | 93.8 | 145 | 157.3 |
| GNL3L | 2056.1 | 2495.3 | 1066.9 | 1071.7 | 790.7 | 316.2 | 1737.6 | 2442.3 |
| GNLY | 108.6 | 124.5 | 87.6 | 90.1 | 77.2 | 88 | 126.3 | 115.4 |
| GNLY | 96.7 | 102.8 | 97 | 101.8 | 105.4 | 111.7 | 95.9 | 114.5 |
| GNLY | 87.1 | 105.7 | 81.6 | 81.2 | 82.3 | 95 | 88.1 | 93.4 |
| GNMT | 97.1 | 104.2 | 109.5 | 104.5 | 116.4 | 119.3 | 98.9 | 102.9 |
| GNPAT | 2612.1 | 3288.3 | 1447.1 | 1486.9 | 1086 | 2449.5 | 2073 | 3239.5 |
| GNPDA1 | 1959.2 | 2460.4 | 1551.2 | 1673.2 | 1166.7 | 1712.2 | 1896.2 | 2098.4 |
| GNPDA2 | 98.8 | 109 | 90 | 80.1 | 84.8 | 79.9 | 99.8 | 118.7 |
| GNPNAT1 | 141.3 | 166 | 104.4 | 95.1 | 78 | 95.3 | 120.5 | 177.5 |
| GNPTAB | 113.5 | 126.1 | 89.1 | 95.2 | 84.2 | 94 | 108.8 | 121.8 |
| GNPTG | 828.6 | 929.8 | 869.2 | 1038 | 995.3 | 1164.1 | 749.5 | 803.6 |
| GNRH1 | 184.3 | 183.6 | 134.7 | 132.4 | 122.1 | 146.3 | 171.3 | 214.3 |
| GNRH2 | 83 | 97.3 | 89.7 | 85.9 | 84.1 | 86.5 | 74.6 | 94 |
| GNRH2 | 107.8 | 131.1 | 93.4 | 94.2 | 84.1 | 87.5 | 122 | 168.9 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| GNRHR | 76.5 | 75.7 | 87.8 | 81.6 | 92.7 | 87.5 | 77.4 | 70.9 |
| GNRHR2 | 104.5 | 113.7 | 95.1 | 84.3 | 71.7 | 81.6 | 94 | 123.1 |
| GNS | 2167.4 | 2850.2 | 1875 | 4323.3 | 3574 | 4418.7 | 1742.9 | 2072.8 |
| GOLGA | 116.6 | 135 | 108.3 | 101.7 | 103.6 | 104.3 | 108.1 | 118.1 |
| GOLGA1 | 163 | 187.8 | 130.7 | 172.8 | 173.4 | 245 | 143.8 | 175.4 |
| GOLGA2 | 263.2 | 384.2 | 180.1 | 218.9 | 196.3 | 244.8 | 294.9 | 392.9 |
| GOLGA2L1 | 97.5 | 134.3 | 83.7 | 93 | 87.2 | 92.6 | 109.8 | 131.6 |
| GOLGA2LY: | 108.8 | 119.2 | 112.7 | 83.5 | 85.3 | 89.5 | 105.9 | 123.1 |
| GOLGA3 | 916.7 | 1268.3 | 595.9 | 955 | 770.4 | 1330.7 | 916.4 | 1752.6 |
| GOLGA4 | 136.3 | 197.7 | 126.1 | 129.3 | 115.7 | 162.2 | 137.5 | 213.4 |
| GOLGA6 | 83.3 | 97.2 | 103.5 | 94.9 | 93.8 | 93.9 | 86.2 | 94.6 |
| GOLGA7 | 3519.7 | 5095.4 | 2505.8 | 2376.5 | 2076.7 | 3625.7 | 2991.2 | 5206.2 |
| GOLGA7 | 139.6 | 143 | 90.3 | 91.3 | 88.1 | 87.7 | 116.6 | 125.8 |
| GOLGA7 | 206.6 | 244.1 | 108.3 | 96.8 | 91.3 | 95.7 | 205.3 | 225.7 |
| GOLGA8A | 267.3 | 150.7 | 142.2 | 128.2 | 147.5 | 121.3 | 128.2 | 176.8 |
| GOLGA8B | 903.7 | 787.7 | 698.3 | 1182.8 | 1131.5 | 2241.9 | 476.5 | 939 |
| GOLGA8E | 82.1 | 100.6 | 96.7 | 93.2 | 82.6 | 94.1 | 82.4 | 85.4 |
| GOLGA8F | 86.7 | 86.7 | 101.9 | 83 | 90.9 | 89.8 | 85.4 | 84 |
| GOLGA8G | 95.6 | 94.8 | 99.8 | 97.3 | 94.1 | 88.4 | 87.4 | 97.1 |
| GOLGB1 | 106.8 | 111.2 | 86 | 88.3 | 84.3 | 115.8 | 101 | 107.6 |
| GOLPH2 | 489.9 | 666.6 | 278.8 | 230.9 | 190.1 | 270.5 | 406.8 | 741.9 |
| GOLPH2 | 150.2 | 216.4 | 94.8 | 96.4 | 84.9 | 88.9 | 141.7 | 166.8 |
| GOLPH3 | 2077.9 | 2769.3 | 871.5 | 1136.3 | 812.7 | 1816.5 | 1628.1 | 3091.8 |
| GOLPH3L | 421.4 | 489.9 | 338.2 | 363.4 | 264.9 | 425 | 408.6 | 756 |
| GOLPH4 | 343.5 | 515.5 | 349.6 | 411.3 | 312.2 | 424.4 | 298.4 | 523.6 |
| GOLT1A | 80.5 | 92.4 | 89.8 | 81.9 | 82.1 | 91.6 | 87.9 | 85.7 |
| GOLT1B | 328.4 | 407.8 | 141.7 | 120.7 | 113.8 | 145.2 | 259.8 | 486.6 |
| GON4 | 98.8 | 134.6 | 90.4 | 84.1 | 82 | 82.3 | 104.7 | 112.9 |
| GOPC | 502.2 | 558.8 | 209.1 | 182.6 | 182.6 | 203.7 | 375.3 | 786 |
| GORASP1 | 467 | 507.9 | 461.3 | 492.5 | 396.1 | 644.4 | 394.7 | 953 |
| GORASP2 | 1191.9 | 1511.8 | 632.1 | 700.9 | 508.3 | 685.1 | 1070.9 | 1423.6 |
| GOSR1 | 201.1 | 226.6 | 166 | 122.3 | 117.6 | 123.6 | 193.6 | 259.2 |
| GOSR1 | 154.6 | 218 | 113.1 | 106.3 | 97 | 110.5 | 152.1 | 209.6 |
| GOSR2 | 164.9 | 198 | 129 | 119.6 | 123.6 | 132.8 | 162.6 | 216.1 |
| GOSR2 | 600 | 751.1 | 285.2 | 255.8 | 208.2 | 280 | 461.2 | 559.2 |
| GOSR2 | 104.3 | 156.3 | 117.1 | 99.8 | 90.4 | 98 | 104.7 | 120.2 |
| GOT1 | 660.2 | 788.6 | 412.4 | 401.3 | 258.9 | 420.9 | 525.6 | 910.2 |
| GOT1L1 | 96.9 | 112.6 | 105.7 | 94.6 | 85.8 | 88.9 | 94.4 | 94.9 |
| GOT2 | 1417.3 | 1886.5 | 1422.2 | 1108.9 | 737.3 | 1308.9 | 1047.4 | 1804 |
| GP1BA | 188 | 206.9 | 143.3 | 136.7 | 132.5 | 141.3 | 191.1 | 203.8 |
| GP2 | 128.8 | 164.9 | 92 | 81.2 | 86.1 | 92 | 115.4 | 155.7 |
| GP6 | 114.8 | 142.2 | 108.5 | 122.2 | 96.5 | 128.8 | 122.4 | 128.2 |
| GP9 | 287.5 | 353 | 147.4 | 146.4 | 134.1 | 133.2 | 260.3 | 212.2 |
| GPA33 | 147.3 | 165.7 | 134.2 | 153.4 | 165.9 | 191.8 | 125.2 | 142.6 |
| GPAA1 | 2249.9 | 3345.5 | 2491.8 | 1071.3 | 768.5 | 977 | 1954.7 | 3068.1 |
| GPAM | 184.2 | 204.3 | 120.8 | 115.3 | 86.5 | 121.6 | 163.1 | 272.7 |
| GPATC1 | 340.5 | 445.8 | 250.3 | 245.9 | 210.7 | 322.7 | 328.5 | 461.3 |
| GPATC2 | 380.7 | 464.4 | 301.1 | 342.4 | 309.6 | 569.9 | 314.5 | 598.5 |
| GPATC3 | 188.1 | 238.7 | 145 | 148.6 | 132.3 | 181.5 | 200.9 | 266.9 |
| GPATCH4 | 285.5 | 316.3 | 125.6 | 110 | 97.6 | 88.6 | 201.8 | 279.6 |

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|---------|--------|--------|--------|--------|-------|--------|--------|--------|
| GPATCH4 | 2032.1 | 2630.6 | 1288.1 | 1050.2 | 882.1 | 1484.5 | 1475.7 | 1846.6 |
| GPATCH4 | 1030.9 | 1331.6 | 583 | 477.7 | 349.5 | 731.7 | 834.5 | 1110.9 |
| GPBAR1 | 109.2 | 119 | 102.4 | 98.1 | 101.8 | 102.4 | 98.4 | 119 |
| GPBAR1 | 113.1 | 126.7 | 99.9 | 128.5 | 103.7 | 114.8 | 117.2 | 103.4 |
| GPBP1 | 344 | 441 | 139.5 | 153.9 | 127.3 | 193.7 | 323.9 | 786.9 |
| GPBP1L1 | 226.6 | 230.9 | 127 | 149.2 | 132.2 | 178.8 | 187.5 | 296.2 |
| GPC1 | 109.5 | 134.8 | 115.5 | 101.9 | 96.1 | 112.7 | 115 | 141.2 |
| GPC2 | 160.2 | 200 | 116.8 | 116.1 | 107.8 | 121.5 | 157.6 | 177.9 |
| GPC3 | 551.7 | 764.2 | 360.6 | 392.8 | 319.2 | 525.6 | 468.9 | 661.1 |
| GPC4 | 322.8 | 408.7 | 263.9 | 305.2 | 242.3 | 353.7 | 251.7 | 390.4 |
| GPC5 | 105.9 | 102.6 | 107 | 109.7 | 106.1 | 126.7 | 103.8 | 114.3 |
| GPC6 | 205.9 | 225.9 | 149.9 | 147.5 | 131.2 | 151.9 | 174 | 244.1 |
| GPD1 | 84.5 | 81.8 | 89.7 | 79 | 82.2 | 85.7 | 89.8 | 88.1 |
| GPD1L | 1242.4 | 1756.2 | 764.2 | 910.7 | 633.2 | 952.9 | 861.8 | 899 |
| GPD2 | 97.1 | 101.4 | 95.3 | 88.6 | 78.3 | 86.5 | 107.8 | 114.1 |
| GPHA2 | 112.9 | 156.5 | 82.2 | 87 | 85.3 | 99.2 | 138 | 163 |
| GPHB5 | 110.3 | 118.2 | 116 | 117.2 | 114.3 | 115.1 | 104.6 | 102.2 |
| GPHN | 367.7 | 482.3 | 268.8 | 271.7 | 216 | 292.5 | 302.1 | 311.5 |
| GPHN | 137.3 | 171.1 | 117 | 105.3 | 94.2 | 102 | 113.5 | 148 |
| GPI | 2132.5 | 2600.4 | 1943.1 | 1035.3 | 824.3 | 1285.1 | 1762.2 | 2744.6 |
| GPIAP1 | 149 | 162.2 | 108.2 | 110.2 | 87.4 | 115.8 | 125.2 | 152.6 |
| GPIAP1 | 1434.9 | 1927.8 | 909.5 | 732.4 | 556.1 | 943.9 | 1159.6 | 1791.8 |
| GPIAP1 | 1453.5 | 2115.4 | 604.5 | 538.4 | 482.5 | 957.7 | 892.4 | 1234.1 |
| GPKOW | 438.8 | 587.8 | 134.7 | 141.2 | 132.9 | 143.6 | 415.4 | 494.3 |
| GPLD1 | 95.2 | 95 | 90.4 | 77.6 | 82.9 | 86.4 | 87.7 | 92.7 |
| GPLD1 | 81.1 | 94.3 | 94 | 95.6 | 88.6 | 80.4 | 88.1 | 85.2 |
| GPM6A | 95.3 | 102.1 | 99.9 | 93.7 | 96.2 | 94.6 | 88.1 | 103.4 |
| GPM6A | 89.2 | 97.6 | 93.3 | 91.6 | 84.3 | 89.6 | 98.1 | 103.3 |
| GPM6A | 149.4 | 180.1 | 123.2 | 97.8 | 125.8 | 107.8 | 160.3 | 167.9 |
| GPM6B | 182.7 | 216.7 | 137.7 | 192.1 | 171.1 | 190.4 | 129.5 | 175.6 |
| GPM6B | 96.4 | 94.1 | 97 | 95.6 | 84.1 | 93.7 | 93.8 | 94.3 |
| GPM6B | 152 | 191.9 | 109.8 | 152.5 | 131.4 | 166.1 | 121.4 | 142.4 |
| GPNMB | 109.1 | 137.4 | 107.6 | 224.8 | 230.2 | 403.4 | 115.5 | 125.4 |
| GPNMB | 108.5 | 138.2 | 113.5 | 522.4 | 434.6 | 930.4 | 105.7 | 163.8 |
| GPR1 | 683.5 | 678.6 | 273.9 | 400.5 | 490.9 | 328.4 | 672.6 | 904.8 |
| GPR101 | 105.7 | 117.7 | 95.4 | 93 | 92 | 89.1 | 106.1 | 105.2 |
| GPR103 | 87.4 | 87.7 | 100.3 | 90.6 | 102.7 | 89.4 | 80 | 86.9 |
| GPR107 | 110.5 | 117.1 | 109.9 | 99.5 | 90.3 | 95.9 | 103.6 | 133.1 |
| GPR108 | 356.9 | 451.4 | 239.9 | 181.7 | 199.3 | 248.6 | 344 | 452.7 |
| GPR109A | 78 | 82.1 | 112 | 82.8 | 81.5 | 79.6 | 89.9 | 91 |
| GPR109B | 86.7 | 92.3 | 99.2 | 94.3 | 92.5 | 98 | 85.5 | 92.3 |
| GPR110 | 86.6 | 83.2 | 87.1 | 87.7 | 83.1 | 94.4 | 86.5 | 92.6 |
| GPR110 | 83.8 | 84.4 | 81.6 | 79.3 | 77.4 | 85.4 | 74.7 | 86.9 |
| GPR110 | 89.8 | 95.4 | 96.1 | 94.7 | 90.5 | 91.9 | 97.3 | 92.9 |
| GPR111 | 101 | 112.8 | 99.4 | 85.3 | 83.4 | 85.5 | 95.9 | 107.5 |
| GPR112 | 125.3 | 132.7 | 89.4 | 92.3 | 86.7 | 80.8 | 115.7 | 123.4 |
| GPR113 | 110.7 | 121.6 | 125.9 | 105.7 | 109.7 | 105.1 | 113.8 | 117.5 |
| GPR114 | 714.5 | 862.1 | 662.2 | 287.6 | 245.7 | 274.8 | 383.4 | 419.3 |
| GPR115 | 80.6 | 85.8 | 98.6 | 80.1 | 79.2 | 75.6 | 76.7 | 83 |
| GPR116 | 131 | 126.3 | 92.2 | 84.8 | 90.3 | 87.2 | 120.7 | 134.7 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| GPR119 | 175.5 | 214.3 | 104.6 | 107.4 | 93 | 108.1 | 143.6 | 186.7 |
| GPR12 | 81.9 | 85.4 | 94.1 | 82.1 | 76.8 | 72.9 | 91.3 | 82.1 |
| GPR120 | 90 | 97.3 | 90.5 | 80.9 | 68.9 | 84.4 | 85.9 | 102.3 |
| GPR123 | 77.2 | 95 | 75 | 90.6 | 88 | 92 | 82.6 | 84.9 |
| GPR124 | 443.1 | 556.2 | 415.3 | 524 | 396.8 | 689.8 | 394.3 | 711.3 |
| GPR125 | 140.4 | 153.3 | 101.2 | 85.4 | 87.4 | 93.1 | 135 | 148.2 |
| GPR126 | 107.7 | 139.6 | 84.8 | 80.4 | 77.3 | 84.1 | 100.8 | 118.3 |
| GPR128 | 94.4 | 106.9 | 93.1 | 93.4 | 90.1 | 86 | 97.2 | 105.1 |
| GPR132 | 123.2 | 145.1 | 178.8 | 170.9 | 170.8 | 202.6 | 123.8 | 155.8 |
| GPR133 | 104 | 117.7 | 97.9 | 92 | 90.5 | 89.5 | 99.5 | 111.2 |
| GPR135 | 100.8 | 113.1 | 91.8 | 91.3 | 87 | 92.7 | 105.2 | 114.4 |
| GPR137 | 755.4 | 946.6 | 610.5 | 492.8 | 444.9 | 466.4 | 735.9 | 797.1 |
| GPR137B | 222.7 | 279.2 | 190.9 | 182.6 | 160.4 | 197.1 | 207.6 | 331.2 |
| GPR139 | 93.8 | 96.5 | 93.2 | 101.6 | 96.6 | 100.4 | 112.9 | 103.8 |
| GPR141 | 99.7 | 125.4 | 99.2 | 104 | 97.7 | 96.3 | 102 | 106.8 |
| GPR142 | 101.8 | 102.5 | 94.5 | 96.7 | 79 | 85.4 | 91.5 | 106.7 |
| GPR143 | 118.8 | 138.2 | 113.5 | 97.8 | 86.9 | 98.7 | 115.4 | 174.4 |
| GPR146 | 123.7 | 143 | 108.9 | 114.9 | 112.2 | 125.9 | 117.3 | 138 |
| GPR148 | 125.5 | 149.9 | 98.8 | 84.8 | 85.3 | 89.3 | 121.3 | 135.6 |
| GPR149 | 68.6 | 86.2 | 77.6 | 79.7 | 81.2 | 83.9 | 81.4 | 79.1 |
| GPR149 | 144.3 | 192.8 | 96.8 | 89.5 | 86.8 | 89.9 | 153.3 | 165.1 |
| GPR15 | 92 | 90.2 | 101.3 | 99.6 | 82.7 | 93.4 | 85 | 93.2 |
| GPR150 | 86.7 | 89.7 | 92.5 | 92 | 88.8 | 85.7 | 102.5 | 106.1 |
| GPR151 | 85.4 | 97.5 | 92.7 | 90.9 | 74.8 | 84.4 | 83.3 | 99.9 |
| GPR152 | 85.6 | 84.3 | 79.1 | 85.4 | 80.7 | 87.3 | 78.8 | 88.2 |
| GPR153 | 151.4 | 167.3 | 105.5 | 99.8 | 94.6 | 106.7 | 128.6 | 133.2 |
| GPR154 | 102.3 | 120.9 | 97.4 | 83.9 | 70.4 | 90.1 | 103.1 | 111.2 |
| GPR154 | 84.2 | 92.6 | 101.7 | 87.7 | 85.7 | 86 | 82.8 | 87.4 |
| GPR154 | 252 | 366.3 | 150.3 | 107.5 | 113.8 | 123.4 | 252.9 | 223.2 |
| GPR155 | 95 | 105.9 | 88.8 | 73.5 | 75.7 | 76.6 | 89 | 97.9 |
| GPR155 | 80 | 91.9 | 87.1 | 92.9 | 84.1 | 88.7 | 81.4 | 91.3 |
| GPR156 | 128 | 158.8 | 102.2 | 101.3 | 101.4 | 87 | 121.4 | 133.5 |
| GPR157 | 76.7 | 82.7 | 84.9 | 79.5 | 76.3 | 83.9 | 82.9 | 80.9 |
| GPR158 | 103.8 | 111 | 96.2 | 82.8 | 76.5 | 82.1 | 116.7 | 133.9 |
| GPR160 | 1747.8 | 2223.3 | 841 | 2221.7 | 1585.4 | 2499.8 | 1795.8 | 2755.6 |
| GPR161 | 93.5 | 106.2 | 115 | 101.4 | 93.2 | 96.4 | 98.9 | 90.7 |
| GPR161 | 87.9 | 104.3 | 101 | 96.6 | 72.8 | 81.4 | 83.5 | 113 |
| GPR162 | 284.3 | 363.1 | 224.8 | 320.9 | 414.4 | 315.6 | 327.6 | 305.2 |
| GPR162 | 79.4 | 82.9 | 91.4 | 97.5 | 91 | 87.6 | 82.5 | 90.3 |
| GPR17 | 102.3 | 115.6 | 100.8 | 87.1 | 75 | 90.4 | 104.2 | 116.7 |
| GPR171 | 103.1 | 114.3 | 95.2 | 92.8 | 83.2 | 89.7 | 98.6 | 119.1 |
| GPR172A | 1256.8 | 1589.5 | 1428.3 | 833 | 698.6 | 883.1 | 1517.4 | 2958.2 |
| GPR172B | 77.1 | 89 | 79.9 | 91.8 | 82.1 | 93.6 | 80.9 | 81.4 |
| GPR173 | 96 | 111.9 | 101.9 | 92.9 | 92.7 | 87.1 | 100.3 | 112.4 |
| GPR173 | 94.9 | 103.5 | 100.2 | 92.1 | 93 | 93.6 | 92.5 | 97.1 |
| GPR174 | 84.2 | 95.3 | 88.4 | 82.8 | 82.6 | 91.7 | 81.4 | 88.1 |
| GPR175 | 407.4 | 460.5 | 352.1 | 258.2 | 214.4 | 290.2 | 420.6 | 864.8 |
| GPR176 | 97 | 120.2 | 96.1 | 100.3 | 92.8 | 96.4 | 95.3 | 106.9 |
| GPR177 | 126.7 | 158.7 | 121 | 104.6 | 95.6 | 109 | 128.6 | 165 |
| GPR177 | 315.3 | 425.5 | 252.7 | 247.5 | 217.9 | 350.5 | 294.9 | 379.8 |

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|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| GPR177 | 181.8 | 235.3 | 124.1 | 112.5 | 106.3 | 113.1 | 165.7 | 223.8 |
| GPR179 | 104.8 | 114.9 | 119.8 | 104.1 | 108.6 | 103.3 | 104.6 | 106.1 |
| GPR18 | 874.2 | 1269 | 609 | 508.6 | 369.8 | 631.3 | 394.2 | 445.7 |
| GPR19 | 85.2 | 83 | 85.3 | 91.8 | 87.8 | 78.7 | 85.4 | 97.9 |
| GPR20 | 117.1 | 126.1 | 92.6 | 93.4 | 86.4 | 89.1 | 111 | 128 |
| GPR21 | 104.1 | 116.1 | 106.1 | 93.9 | 89.4 | 97.4 | 99.7 | 102.1 |
| GPR22 | 91.2 | 105.9 | 102.8 | 101.1 | 94.3 | 94.2 | 85.7 | 98.3 |
| GPR23 | 432.8 | 565.6 | 236.4 | 228.1 | 196.3 | 171.4 | 360.5 | 470.1 |
| GPR24 | 92.3 | 99.8 | 104.6 | 85.3 | 81.4 | 93.5 | 97.8 | 101.4 |
| GPR25 | 84.5 | 88.3 | 87.9 | 82.3 | 89 | 78.1 | 76.8 | 93.5 |
| GPR26 | 112.4 | 135.4 | 98.7 | 94.2 | 81.8 | 82.6 | 109.3 | 126.9 |
| GPR27 | 252.3 | 290.2 | 169.9 | 125.6 | 120.9 | 143.5 | 229.4 | 267.7 |
| GPR3 | 119.6 | 137.4 | 115.8 | 108 | 92.5 | 110 | 112.8 | 126.9 |
| GPR30 | 85.4 | 103.3 | 90.8 | 131 | 133.2 | 142.4 | 90.2 | 89.7 |
| GPR30 | 138.4 | 157.7 | 98.2 | 128.4 | 123.4 | 117.8 | 121 | 149.1 |
| GPR30 | 102.1 | 136.6 | 92.4 | 91.9 | 82.4 | 88.3 | 103.2 | 115.9 |
| GPR31 | 88.1 | 102.7 | 85.7 | 89.7 | 81.9 | 91.3 | 106.2 | 105.6 |
| GPR32 | 80.6 | 94.8 | 85.4 | 86.3 | 81.9 | 89.1 | 86.3 | 93.9 |
| GPR34 | 97.9 | 99.7 | 84.2 | 81.3 | 81.4 | 84.3 | 103.5 | 102.7 |
| GPR34 | 83.7 | 85.5 | 88.3 | 95.7 | 86.5 | 87.6 | 82.2 | 86.7 |
| GPR34 | 95.1 | 116.5 | 87.1 | 84.9 | 84.9 | 86.3 | 98.7 | 113.7 |
| GPR35 | 143.7 | 165.2 | 99.3 | 94.9 | 96.4 | 105.8 | 166.4 | 259.9 |
| GPR37 | 108 | 114.2 | 116.6 | 106.7 | 107.3 | 113.4 | 92.8 | 109.7 |
| GPR37L1 | 75.8 | 78.8 | 90.5 | 83.5 | 86 | 85.8 | 73.9 | 87.4 |
| GPR39 | 90.7 | 96 | 94.8 | 93.6 | 93.2 | 87.9 | 91.4 | 87 |
| GPR4 | 91.2 | 110.4 | 82.7 | 93 | 79.6 | 90.6 | 88.9 | 95.6 |
| GPR42 | 80.1 | 78.7 | 87.7 | 85.7 | 82.5 | 86.9 | 80.8 | 72.8 |
| GPR44 | 76.3 | 94 | 81.6 | 78.7 | 88.1 | 78.1 | 75.2 | 89.3 |
| GPR45 | 74.2 | 90.1 | 90.6 | 87.1 | 89.5 | 84.1 | 81.3 | 79.2 |
| GPR50 | 98.1 | 97.3 | 89.7 | 84.2 | 84.9 | 83.3 | 87.7 | 97.1 |
| GPR52 | 122.5 | 136 | 95.8 | 88 | 79.3 | 86.8 | 120.3 | 133.4 |
| GPR55 | 136.3 | 151.3 | 101.3 | 98.1 | 103.3 | 108.7 | 113 | 130.7 |
| GPR56 | 142.7 | 180.9 | 99.9 | 93.8 | 98.8 | 95.8 | 143.6 | 165.1 |
| GPR56 | 79 | 83.8 | 110.3 | 107.1 | 106.2 | 109.1 | 91.9 | 97.2 |
| GPR56 | 101.3 | 118.3 | 99.4 | 92.5 | 87.3 | 94.9 | 108 | 112 |
| GPR6 | 118.9 | 132.3 | 101.4 | 90.3 | 97.4 | 93.1 | 118.4 | 116.5 |
| GPR61 | 98.8 | 116.4 | 86.6 | 79 | 77.2 | 83.5 | 104.9 | 114.5 |
| GPR62 | 77.4 | 89.4 | 91.8 | 79.8 | 75.5 | 87 | 93.5 | 90.8 |
| GPR63 | 330.9 | 454.6 | 243.4 | 193.6 | 173.2 | 196.1 | 278.8 | 260.8 |
| GPR64 | 85.8 | 92.3 | 104.2 | 106.1 | 101.7 | 93.8 | 97.3 | 87.2 |
| GPR64 | 83.3 | 96.2 | 86.9 | 84 | 77.8 | 74.1 | 89.9 | 80.6 |
| GPR65 | 238.3 | 271 | 136.6 | 127.4 | 112.3 | 133.4 | 221.5 | 350.1 |
| GPR68 | 106.3 | 103.9 | 90 | 94.8 | 83 | 89.5 | 103 | 96.3 |
| GPR75 | 83.7 | 90 | 86.5 | 96 | 84.4 | 93.8 | 80.8 | 93.7 |
| GPR77 | 78.5 | 83.8 | 86.2 | 81.4 | 82.4 | 71.9 | 72.3 | 83.3 |
| GPR78 | 121.3 | 135.6 | 105.8 | 90.9 | 95.1 | 98.4 | 118.9 | 127.5 |
| GPR81 | 79.9 | 98.7 | 102.1 | 105.1 | 87.8 | 90.1 | 89 | 92.6 |
| GPR82 | 83.8 | 96.5 | 103.1 | 92.4 | 90.2 | 85.7 | 85.3 | 81.7 |
| GPR83 | 85.9 | 103.5 | 93.7 | 91.7 | 91.8 | 93.2 | 84.3 | 97.1 |
| GPR84 | 346 | 427.9 | 245 | 108.7 | 92.9 | 114.9 | 272.7 | 411.5 |

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| GPR85 | 100.5 | 116 | 95.6 | 102.5 | 112.4 | 107.1 | 97.5 | 105.6 |
| GPR87 | 103.7 | 116.4 | 107.5 | 105.7 | 95.7 | 111.2 | 100.6 | 114 |
| GPR88 | 83.9 | 97.1 | 98 | 106.8 | 91.8 | 93.3 | 84.6 | 96.9 |
| GPR89A | 548.1 | 723.2 | 250.2 | 204.1 | 171.2 | 207.2 | 362.4 | 492.7 |
| GPR92 | 247.4 | 336.9 | 241.3 | 361.7 | 258.3 | 383.1 | 174.9 | 196.7 |
| GPR97 | 94.6 | 99.1 | 88.1 | 80.9 | 80.1 | 84.8 | 84.1 | 96 |
| GPR97 | 81.8 | 110.7 | 90.2 | 92.2 | 75.6 | 87.9 | 95.6 | 105.1 |
| GPR98 | 88.5 | 105.7 | 98 | 86.6 | 79.4 | 94.7 | 99.8 | 99.6 |
| GPRASP1 | 113.8 | 131.7 | 96.4 | 89.7 | 84 | 84 | 112.6 | 126.4 |
| GPRASP2 | 287 | 341.7 | 251.3 | 244.5 | 193.7 | 324.8 | 225.2 | 430.2 |
| GPRASP2 | 120.6 | 143.3 | 100.2 | 90 | 88.6 | 95.5 | 119.7 | 145.9 |
| GPRC5A | 99.1 | 106.7 | 94.7 | 78.4 | 82.5 | 86 | 97.8 | 103.2 |
| GPRC5B | 130.4 | 146.7 | 102.9 | 99.8 | 88.9 | 94.4 | 122.9 | 132.5 |
| GPRC5C | 136.3 | 160.9 | 109.6 | 104.9 | 116.9 | 112.7 | 133.6 | 150.5 |
| GPRC5C | 139.7 | 157.6 | 103 | 93.2 | 86.6 | 108.9 | 124.1 | 156.4 |
| GPRC5C | 348.2 | 405.2 | 164.6 | 157.7 | 165.7 | 222.3 | 274.3 | 256.3 |
| GPRC5D | 85.7 | 99.8 | 84.2 | 84.6 | 86.5 | 83.3 | 84.6 | 92.4 |
| GPRC6A | 103.4 | 107.9 | 111.6 | 94.4 | 92.8 | 101.4 | 98.8 | 97.9 |
| GPS1 | 124.5 | 142.1 | 124.7 | 121.2 | 119.1 | 101.4 | 124.7 | 125.4 |
| GPS1 | 2430.3 | 2935.5 | 1561.5 | 1362.7 | 1154 | 1500.5 | 2010.5 | 2030 |
| GPS1 | 331.5 | 487.8 | 234.6 | 179.4 | 178.7 | 209 | 297 | 384.4 |
| GPS2 | 315.5 | 402.8 | 272.6 | 203.1 | 206.8 | 252.2 | 326.5 | 478.9 |
| GPSM1 | 91.7 | 117.7 | 106.4 | 83.4 | 87.5 | 76.9 | 88.5 | 121.9 |
| GPSM2 | 1144.1 | 1580.8 | 840.5 | 393.9 | 334.3 | 506.2 | 823 | 1171.9 |
| GPSM3 | 787.6 | 915.4 | 649.9 | 502 | 383.6 | 437.9 | 704.5 | 1505.3 |
| GPSN2 | 9762.1 | 13204 | 8018.3 | 4221.6 | 3446.5 | 3907.1 | 8109.7 | 11837.7 |
| GPT | 116.3 | 129.3 | 120.1 | 99.8 | 99.1 | 102.6 | 116.3 | 117.6 |
| GPT2 | 849.4 | 1179.4 | 842.2 | 436.3 | 402.1 | 480.1 | 779.2 | 1030.4 |
| GPX1 | 15038.8 | 16767.4 | 11341.8 | 8434.6 | 6860.7 | 10736.2 | 10910.6 | 15125.6 |
| GPX1 | 206.8 | 176.4 | 122.4 | 93.9 | 89.5 | 108.7 | 149.6 | 174.9 |
| GPX2 | 86.6 | 101.2 | 101.1 | 97.3 | 93.3 | 105.9 | 87.4 | 76.7 |
| GPX3 | 90 | 93 | 87.3 | 78.5 | 75.5 | 87.3 | 94.2 | 107.4 |
| GPX4 | 5952 | 7741.3 | 2305.1 | 2058.5 | 1539.3 | 2714.4 | 4774 | 5937.8 |
| GPX4 | 12118 | 13576.4 | 10023.3 | 9089.7 | 6909.7 | 9859.6 | 9101.5 | 13344.5 |
| GPX5 | 93.3 | 99.1 | 85.7 | 84.8 | 85.3 | 80.2 | 87.6 | 100.9 |
| GPX5 | 79.3 | 89.4 | 100.8 | 89.9 | 81.9 | 82.7 | 73.7 | 78.5 |
| GPX6 | 84.7 | 95.8 | 108 | 98.7 | 97.2 | 94.5 | 83.9 | 92.6 |
| GPX7 | 2200.7 | 2662 | 1262.9 | 1738.1 | 1093.7 | 2060.1 | 1692.7 | 2727.6 |
| GRAMD1A | 497.9 | 612.6 | 305 | 208.6 | 205.5 | 253.8 | 395.6 | 307.2 |
| GRAMD1C | 75.6 | 81.3 | 89.5 | 86 | 96.7 | 84 | 82.9 | 78.4 |
| GRAMD2 | 83 | 93.9 | 90 | 87.7 | 84 | 78.4 | 88.9 | 88.5 |
| GRAMD3 | 299.7 | 348.1 | 220.4 | 361.4 | 326.3 | 437.8 | 241 | 373.1 |
| GRAP | 117.1 | 122.7 | 94.4 | 93.8 | 86.4 | 84.7 | 107.6 | 116.9 |
| GRAP | 706.1 | 898.1 | 466.7 | 423 | 357.1 | 400.3 | 678.5 | 761.5 |
| GRAP2 | 75 | 80.7 | 89.6 | 84.1 | 72.7 | 73.9 | 78.4 | 85.3 |
| GRASP | 92.1 | 110.5 | 117.6 | 104.3 | 96.4 | 110.6 | 87.9 | 96.5 |
| GRB10 | 84.9 | 83.4 | 105.3 | 90.3 | 86.2 | 95.3 | 85 | 85.4 |
| GRB10 | 226.3 | 295.1 | 172.7 | 134.4 | 132 | 128.9 | 260 | 324.3 |
| GRB10 | 116.1 | 111.9 | 97.5 | 91.2 | 90.4 | 87.8 | 114 | 128 |
| GRB10 | 124.9 | 154 | 152 | 117.9 | 111.9 | 105.5 | 136.2 | 215.2 |

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|---------|--------|--------|--------|--------|-------|--------|--------|--------|
| GRB14 | 92 | 98.1 | 100.3 | 93.5 | 83.4 | 91.6 | 93.9 | 87.9 |
| GRB14 | 96.6 | 111.5 | 85.4 | 80.5 | 80 | 81.4 | 120.9 | 121.3 |
| GRB2 | 868.3 | 1152.1 | 834.6 | 796.3 | 673.8 | 1245.1 | 763.2 | 1679.9 |
| GRB2 | 2436.8 | 3441.3 | 1152.2 | 1129.8 | 912.5 | 625.8 | 2181.3 | 2951.4 |
| GRB7 | 94.3 | 107.6 | 107 | 87.3 | 93.7 | 94.1 | 105.3 | 120.1 |
| GRB7 | 91.9 | 95 | 89.2 | 85.4 | 73.7 | 79.3 | 89.7 | 91.4 |
| GRB7 | 91.5 | 127.9 | 97.1 | 94.6 | 85.9 | 86.2 | 84.9 | 84.8 |
| GREB1 | 87 | 106.7 | 88.5 | 79.7 | 79.3 | 88.7 | 98.6 | 108.9 |
| GREB1 | 95.9 | 105.7 | 106 | 99.3 | 103.3 | 98.8 | 96.8 | 93.9 |
| GREB1 | 103 | 107 | 106.2 | 83.7 | 83 | 87.5 | 110.9 | 114.7 |
| GREB1 | 124.8 | 144.1 | 103.3 | 88 | 90.2 | 93.7 | 114.5 | 167 |
| GREM1 | 88 | 96.6 | 96.6 | 99.5 | 92.5 | 94.3 | 93.6 | 105.8 |
| GREM2 | 78.9 | 92.3 | 96.5 | 86.8 | 90 | 78.2 | 88.8 | 82 |
| GRHL1 | 166.4 | 196.7 | 104.5 | 95.3 | 88.3 | 95.7 | 167.3 | 165 |
| GRHL1 | 106.3 | 132.3 | 100.5 | 82.3 | 90.4 | 92.1 | 110.6 | 124.5 |
| GRHL1 | 84.6 | 82 | 94.7 | 93.1 | 81.7 | 95.6 | 85.9 | 84 |
| GRHL2 | 94.7 | 100.6 | 93.5 | 87.8 | 89 | 82.9 | 95.5 | 94.5 |
| GRHL3 | 82.1 | 96.2 | 98.2 | 90.9 | 86.5 | 89.5 | 84.6 | 86.1 |
| GRHL3 | 71.1 | 80.6 | 100.3 | 95.3 | 86.4 | 86 | 79.1 | 83.2 |
| GRHL3 | 88.9 | 113.1 | 105.8 | 104.8 | 94.5 | 90.9 | 93 | 93.9 |
| GRHPR | 800.5 | 959.2 | 360.7 | 340.5 | 255.8 | 377.6 | 750.1 | 1105.7 |
| GRIA1 | 113.9 | 150.8 | 91.2 | 89.9 | 79.8 | 85.7 | 108.6 | 113.3 |
| GRIA2 | 108.6 | 111.6 | 94.5 | 93.4 | 88.5 | 82.2 | 100.2 | 104.8 |
| GRIA3 | 117.2 | 157.3 | 92.8 | 85.2 | 86.2 | 99 | 118.4 | 119.4 |
| GRIA3 | 96.9 | 112.1 | 98.6 | 95.3 | 79.5 | 96.9 | 93.9 | 102.6 |
| GRIA3 | 106.9 | 113.6 | 121.7 | 105.8 | 111.8 | 108 | 102.9 | 102.7 |
| GRIA4 | 120.6 | 127.2 | 100.7 | 96.9 | 95.5 | 88 | 113.3 | 125.9 |
| GRIA4 | 80.8 | 83.5 | 88 | 81 | 71 | 77.6 | 77.9 | 81.4 |
| GRID1 | 90.5 | 87.9 | 82.8 | 93.5 | 83.5 | 92.4 | 89.9 | 94.6 |
| GRID2 | 71.9 | 88.1 | 87.9 | 78.3 | 76.9 | 78.9 | 78.3 | 85.5 |
| GRIK1 | 105.6 | 110.7 | 82.2 | 83.2 | 79.8 | 82.4 | 108.3 | 130.4 |
| GRIK1 | 83.4 | 89.9 | 97.4 | 89 | 82 | 96.3 | 95.7 | 104 |
| GRIK1 | 81.7 | 77.3 | 87.5 | 86.6 | 79.9 | 81.4 | 83.8 | 82.1 |
| GRIK2 | 102.6 | 104.9 | 84.6 | 88.1 | 83.6 | 86.2 | 99.5 | 98.6 |
| GRIK2 | 78.7 | 89.1 | 99.1 | 93 | 90.9 | 82.6 | 74.4 | 88.5 |
| GRIK3 | 111.7 | 138.3 | 110.7 | 107.5 | 98.1 | 97.5 | 117.4 | 114.3 |
| GRIK4 | 102.7 | 116.9 | 84.8 | 82.5 | 73 | 83.5 | 106.2 | 116.7 |
| GRIK5 | 92.2 | 105.4 | 108.3 | 91.4 | 89.3 | 90.8 | 95.1 | 108.7 |
| GRIN1 | 82.9 | 89.3 | 95.9 | 98.7 | 86.9 | 85.8 | 83.3 | 86.1 |
| GRIN1 | 81.2 | 95.2 | 89.5 | 88 | 91 | 89.6 | 85.9 | 90.7 |
| GRIN1 | 409.8 | 421.6 | 212.5 | 181 | 179.5 | 194.7 | 395.4 | 380.3 |
| GRIN2A | 106.1 | 126.1 | 109 | 95.7 | 87.7 | 94.1 | 117.5 | 143.6 |
| GRIN2B | 120.4 | 127 | 78.9 | 84 | 78.5 | 82.9 | 118.4 | 161.2 |
| GRIN2C | 123 | 161 | 101.5 | 96.2 | 96.6 | 88.2 | 128.5 | 151.1 |
| GRIN2D | 84.2 | 85.5 | 98.6 | 85.4 | 84.9 | 94.1 | 87.8 | 86.1 |
| GRIN3A | 85.7 | 100.3 | 85.4 | 85.3 | 76.3 | 90.6 | 96.7 | 112.9 |
| GRIN3B | 202 | 211.4 | 188.8 | 216.3 | 189.6 | 206.7 | 164.4 | 161.2 |
| GRINA | 285 | 367.1 | 430.6 | 332.3 | 308.7 | 327.7 | 270.5 | 512.6 |
| GRINA | 868.2 | 1066.4 | 755 | 751.8 | 463 | 468.4 | 942.1 | 1886 |
| GRINL1A | 75.1 | 88.7 | 82.1 | 71.5 | 77 | 77 | 73.6 | 80.2 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| GRINL1A | 252.6 | 311.8 | 152.3 | 130.3 | 139.7 | 145.1 | 275.1 | 353.9 |
| GRINL1A | 346.4 | 468.4 | 129.3 | 137 | 126 | 164.5 | 258.1 | 329 |
| GRIP1 | 84.5 | 97.6 | 105.8 | 84.9 | 86.8 | 94.6 | 75.8 | 77.4 |
| GRIP2 | 75.8 | 82.7 | 86.4 | 91 | 80.4 | 87.8 | 80.7 | 77.6 |
| GRIPAP1 | 276.1 | 347 | 249.5 | 252.9 | 237.6 | 338.3 | 243.1 | 306.4 |
| GRIPAP1 | 170.7 | 255.8 | 148.7 | 135.6 | 135.6 | 156 | 172.6 | 195.4 |
| GRIPAP1 | 1740.1 | 1464.3 | 1259.8 | 1840.9 | 1743.4 | 1369.5 | 1514.4 | 2756.1 |
| GRK1 | 122.3 | 131.8 | 101.4 | 115.6 | 100.6 | 111.7 | 112.6 | 118.1 |
| GRK4 | 98.5 | 108.1 | 88.6 | 88.3 | 78.9 | 88 | 95.8 | 93.1 |
| GRK4 | 93 | 96.7 | 95.9 | 98.9 | 91 | 107.4 | 95.9 | 94.3 |
| GRK4 | 97 | 124.4 | 92.7 | 86 | 93.6 | 98.2 | 97.8 | 111 |
| GRK5 | 154.2 | 189.4 | 107 | 90.6 | 87.2 | 98.7 | 138.8 | 161.2 |
| GRK6 | 187.2 | 241.5 | 202.3 | 166.2 | 158.6 | 172.7 | 143.3 | 201.6 |
| GRK6 | 204.9 | 283.3 | 186 | 150.6 | 148.1 | 200.6 | 193.6 | 260.3 |
| GRK7 | 81.8 | 83.3 | 88.9 | 75.1 | 79.4 | 78 | 78.8 | 90.3 |
| GRLF1 | 136.8 | 146.6 | 98.3 | 92.2 | 101.2 | 96.1 | 125.6 | 152.8 |
| GRM1 | 86.2 | 96 | 85.4 | 78.5 | 84.7 | 94.8 | 84.9 | 95.7 |
| GRM2 | 133.2 | 156 | 135.3 | 98.3 | 99 | 97.1 | 128.7 | 167 |
| GRM3 | 83.2 | 107.7 | 86.1 | 85.1 | 78.2 | 84.7 | 93.7 | 98.6 |
| GRM4 | 116.7 | 127.8 | 111.4 | 95.9 | 90 | 96.7 | 110.5 | 118.8 |
| GRM5 | 124.3 | 152.8 | 89.4 | 76.7 | 77.7 | 79.5 | 112.7 | 144.1 |
| GRM6 | 92.1 | 99.3 | 86.8 | 88.9 | 69.9 | 74.5 | 86.5 | 96.9 |
| GRM7 | 76.4 | 78.3 | 99 | 102.6 | 95.6 | 97.4 | 82.5 | 83.3 |
| GRM7 | 83.7 | 93.9 | 102.7 | 88.4 | 93.4 | 94.6 | 84.2 | 83 |
| GRM7 | 97.6 | 109 | 88.9 | 91 | 93.8 | 94.8 | 102.8 | 100.6 |
| GRM8 | 95.8 | 114.5 | 93.2 | 99.8 | 99.2 | 105 | 93.1 | 122.8 |
| GRN | 1776.8 | 2267.1 | 1458.4 | 1856.5 | 1347.4 | 1985 | 1491.1 | 2671.5 |
| GRN | 2055.8 | 2828.6 | 825.3 | 1419.6 | 1112 | 1035.7 | 1740.5 | 2080.4 |
| GRP | 83.7 | 92 | 80.8 | 86.2 | 79.9 | 82.1 | 90.4 | 93.1 |
| GRP | 105.4 | 114.2 | 95.3 | 91.5 | 85.7 | 93.5 | 93.7 | 108.5 |
| GRPEL1 | 1483.1 | 1934.7 | 821.7 | 666.9 | 440.1 | 762 | 1309.1 | 2822.6 |
| GRPEL2 | 1121.1 | 1356.2 | 727 | 790.1 | 533.7 | 970 | 1052.6 | 1575.5 |
| GRPR | 95.1 | 116.4 | 90.8 | 99.4 | 97.4 | 103.4 | 97 | 121 |
| GRRP1 | 92 | 100.1 | 97.5 | 80.9 | 77.8 | 84.4 | 86.6 | 92.6 |
| GRSF1 | 1643.8 | 2207 | 1145.9 | 980.1 | 687.7 | 1103.5 | 1318.9 | 2115.8 |
| GRTP1 | 99.2 | 105.7 | 112.7 | 112.9 | 105.3 | 97.9 | 98.5 | 105.9 |
| GRWD1 | 985.2 | 1419.8 | 853.6 | 361.4 | 293 | 456.3 | 967.6 | 1712.3 |
| GSC | 112.4 | 148.2 | 100.4 | 95.1 | 86 | 74.2 | 114.2 | 145.9 |
| GSCL | 81.3 | 93.4 | 98.8 | 76.4 | 79.8 | 88.7 | 90.4 | 96.5 |
| GSDM1 | 150.5 | 175.4 | 123.5 | 106.7 | 96 | 122.5 | 138.4 | 126.2 |
| GSDMDC1 | 2012.7 | 2200 | 1043.5 | 707.6 | 692.6 | 799.7 | 1356.1 | 947 |
| GSDML | 128.2 | 136.7 | 113.3 | 116.2 | 126.2 | 115.1 | 114.7 | 138.2 |
| GSDML | 131.1 | 166.4 | 102.4 | 111.7 | 111.3 | 95.5 | 135.9 | 177.1 |
| GSDML | 175.5 | 184.1 | 130.5 | 138.6 | 150.1 | 151.4 | 154.3 | 190 |
| GSG1 | 92.1 | 93.5 | 83 | 79.8 | 70.7 | 86.8 | 87.5 | 99.1 |
| GSG1 | 103.1 | 118.5 | 103.3 | 99.8 | 96.3 | 99.2 | 104.5 | 109.9 |
| GSG1 | 102.7 | 108.5 | 112.3 | 107 | 98.3 | 107 | 93.3 | 112.2 |
| GSG2 | 211.7 | 281.9 | 173.9 | 135.8 | 132.5 | 148 | 185.5 | 206.2 |
| GSH1 | 109.4 | 141.3 | 86.6 | 77.5 | 86.9 | 82.4 | 114.7 | 121.9 |
| GSH2 | 75.7 | 89.9 | 79.4 | 73.5 | 71.2 | 82.3 | 77.6 | 89.6 |

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|--------|---------|---------|--------|--------|--------|--------|---------|---------|
| GSK3A | 151.6 | 203.5 | 115.1 | 105.6 | 92.8 | 98.5 | 129.6 | 166.1 |
| GSK3B | 711.2 | 897.6 | 423.6 | 546.5 | 435.3 | 441 | 645.7 | 688.8 |
| GSN | 499.2 | 836 | 439.7 | 275.4 | 233.6 | 391.4 | 448.6 | 657.6 |
| GSN | 102.1 | 98.8 | 83.3 | 85.3 | 78.4 | 79.3 | 89.3 | 99.1 |
| GSPT1 | 7458.8 | 8110.4 | 5027 | 4256.3 | 2975.5 | 4312.4 | 6764 | 7449 |
| GSPT2 | 512.5 | 751.4 | 346.4 | 315.3 | 241.3 | 402.4 | 398.7 | 477.1 |
| GSR | 185.7 | 214.2 | 127.6 | 117.2 | 96.4 | 103.6 | 186.3 | 185.9 |
| GSS | 597.7 | 779.3 | 549.1 | 420.3 | 414 | 703.8 | 509.9 | 664.6 |
| GSTA1 | 78.1 | 91.7 | 91.9 | 76.8 | 79.5 | 85.7 | 84.3 | 85.7 |
| GSTA2 | 73.2 | 79.6 | 89 | 92.2 | 91.3 | 91.6 | 82.7 | 85.7 |
| GSTA3 | 92.5 | 89.5 | 102.1 | 96.5 | 92.9 | 97.8 | 81.8 | 89.5 |
| GSTA4 | 180.1 | 224 | 119.2 | 135.2 | 99.9 | 104.7 | 159.1 | 226.3 |
| GSTA5 | 77.5 | 118.7 | 91.6 | 88.9 | 82.7 | 83.7 | 92.6 | 106.2 |
| GSTCD | 106.8 | 102.4 | 113.4 | 127.1 | 120.8 | 109.8 | 99.2 | 110.6 |
| GSTK1 | 3411.2 | 4206.1 | 2363.7 | 2758.5 | 1996.4 | 3665.4 | 2406.6 | 3453.6 |
| GSTM1 | 1834.9 | 2258.4 | 1766.4 | 653.8 | 545.7 | 589.8 | 1579.8 | 2969.3 |
| GSTM1 | 10295.1 | 12590.3 | 7494.2 | 3989.2 | 3019.9 | 2911.6 | 9686.1 | 11480 |
| GSTM1L | 76.7 | 85.4 | 92.7 | 88.5 | 88.5 | 87.2 | 71.1 | 76.4 |
| GSTM2 | 10681.6 | 13817.6 | 7511.5 | 3600.5 | 2866.8 | 2874.6 | 10189 | 12547.8 |
| GSTM3 | 346.1 | 430.1 | 223.1 | 287.3 | 277.6 | 364.9 | 317.1 | 392.2 |
| GSTM4 | 265.5 | 367.7 | 213.9 | 135.4 | 118.3 | 120.9 | 244 | 343.7 |
| GSTM4 | 350.5 | 404.8 | 214.8 | 133.2 | 131.2 | 187.9 | 311.7 | 441.9 |
| GSTM5 | 96.1 | 114 | 93.3 | 84.5 | 90 | 93 | 104.5 | 107.4 |
| GSTO1 | 5018.1 | 5280.6 | 2326 | 1915.8 | 1320.2 | 1900.6 | 4799.7 | 5953 |
| GSTO2 | 117.1 | 120.9 | 99.7 | 96.8 | 81.1 | 87 | 105 | 107.4 |
| GSTP1 | 9421.1 | 12084.6 | 8001.1 | 6042.5 | 5435.5 | 5179 | 11451.5 | 11385 |
| GSTT1 | 77.3 | 75.9 | 81.4 | 68.8 | 73 | 73.2 | 78.1 | 71.2 |
| GSTT2 | 120.5 | 137.3 | 97.5 | 91.3 | 88 | 95.6 | 132.1 | 129.3 |
| GSTT2 | 93.9 | 103.6 | 104.2 | 96.1 | 95.5 | 97.1 | 94.6 | 95.3 |
| GSTZ1 | 116.3 | 140.6 | 95.9 | 78.6 | 81.8 | 86.9 | 102.7 | 159.4 |
| GSTZ1 | 396.1 | 555.4 | 262.7 | 325.9 | 265.6 | 303.5 | 356 | 339.7 |
| GSTZ1 | 99.3 | 96.4 | 97.4 | 94.8 | 87.1 | 89.9 | 87.7 | 97.2 |
| GTDC1 | 210.7 | 254.6 | 119.4 | 107.7 | 97.6 | 115.2 | 157.4 | 210.2 |
| GTDC1 | 261.7 | 305.9 | 153.5 | 125.5 | 127 | 176.5 | 182.6 | 317.4 |
| GTDC1 | 95.8 | 118.8 | 107.6 | 103.7 | 95.8 | 105 | 101.8 | 108.4 |
| GTF2A1 | 104.9 | 118.8 | 87 | 89.1 | 84.4 | 78.6 | 102.9 | 108.4 |
| GTF2A1 | 99.5 | 113.6 | 100.9 | 111.7 | 99.3 | 88.1 | 97.2 | 93.9 |
| GTF2A1 | 163.7 | 197.9 | 101.8 | 104.1 | 112.9 | 104.1 | 174.1 | 168.5 |
| GTF2A2 | 3305.1 | 4302.7 | 1248.3 | 1502.6 | 1006.5 | 1830.9 | 2501.1 | 3689.8 |
| GTF2B | 1285.6 | 1704.2 | 788.1 | 700.3 | 597.7 | 787.2 | 1008.5 | 1544.5 |
| GTF2E1 | 562.6 | 756.9 | 455.8 | 446.8 | 320.2 | 662.4 | 483.6 | 1016.9 |
| GTF2E2 | 3044.6 | 4072.5 | 2416.6 | 1363.3 | 1168.7 | 1577.2 | 2926 | 3180.2 |
| GTF2F1 | 705 | 896.7 | 711.9 | 775.6 | 711.4 | 1136.2 | 655.9 | 1268.8 |
| GTF2F2 | 2615.2 | 3123.8 | 1492.7 | 1514.3 | 1069.3 | 1959.2 | 2307.6 | 3485.3 |
| GTF2H1 | 163.2 | 204.6 | 110.6 | 106.7 | 100.1 | 136.6 | 155 | 241.1 |
| GTF2H2 | 252 | 274.8 | 130.6 | 102.4 | 95.6 | 131.9 | 209.9 | 330.1 |
| GTF2H3 | 911.4 | 1170.4 | 341.3 | 321.7 | 246.7 | 286.6 | 684.6 | 892.8 |
| GTF2H4 | 323.8 | 375 | 296.5 | 276 | 251.8 | 336.5 | 232.5 | 284.5 |
| GTF2H5 | 3764.7 | 4970.7 | 2173.7 | 2259.5 | 1643.5 | 3055.6 | 3405.2 | 4304.6 |
| GTF2I | 703.4 | 808.6 | 263.2 | 238.1 | 193.2 | 148.2 | 327.4 | 476.5 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| GTF2I | 187.2 | 186.3 | 116.9 | 92.4 | 94.4 | 94.9 | 142.2 | 206.4 |
| GTF2IRD1 | 147.1 | 176.4 | 158.8 | 164.1 | 151.1 | 196.9 | 156.7 | 251 |
| GTF2IRD1 | 98 | 113.5 | 114.3 | 107.2 | 95.4 | 95.5 | 99.1 | 99.9 |
| GTF2IRD2B | 88.3 | 102.5 | 114.8 | 101.6 | 89.3 | 102.4 | 95.5 | 93.3 |
| GTF2IRD2P | 89.9 | 95.4 | 107.6 | 90.9 | 89.9 | 95 | 93.2 | 97.4 |
| GTF3C1 | 191.1 | 223.8 | 257.2 | 220.4 | 184.8 | 315.3 | 171.9 | 280.9 |
| GTF3C2 | 1705.8 | 2063.4 | 1201.2 | 1453.4 | 1124.8 | 1980.3 | 1456.8 | 2401.2 |
| GTF3C2 | 409.4 | 499.9 | 216.3 | 233.8 | 209.2 | 248 | 291.3 | 405.3 |
| GTF3C3 | 1289.7 | 1556.3 | 640.1 | 749.6 | 435.1 | 820.2 | 1018.8 | 1676.2 |
| GTF3C4 | 111.8 | 140.2 | 88 | 90.2 | 84 | 97.4 | 101 | 138.7 |
| GTF3C5 | 529.9 | 708 | 547.9 | 324.2 | 269 | 465.2 | 404.1 | 617.9 |
| GTPBP1 | 113.6 | 136.5 | 116.6 | 96.4 | 105.9 | 111.3 | 111.4 | 126.1 |
| GTPBP10 | 131.6 | 150.4 | 115.1 | 124.9 | 105.8 | 115 | 119.6 | 137.1 |
| GTPBP2 | 136.6 | 153.7 | 131 | 137.2 | 122.8 | 152.3 | 131.7 | 180.7 |
| GTPBP3 | 209 | 282 | 154.8 | 126 | 116.1 | 138.1 | 159.5 | 165.7 |
| GTPBP3 | 73.7 | 90.7 | 87.7 | 90.3 | 83 | 90.3 | 86 | 90.1 |
| GTPBP3 | 1661.9 | 2143.7 | 1468.4 | 881.7 | 791.3 | 1071.9 | 1147.3 | 1222.5 |
| GTPBP4 | 3288.3 | 4582.6 | 1903.9 | 1511.4 | 1106.7 | 1989.3 | 2663.8 | 4176 |
| GTPBP5 | 115 | 130.1 | 100.3 | 95.3 | 86.3 | 86.4 | 105.2 | 138.2 |
| GTPBP6 | 2803.9 | 3606.1 | 1608.3 | 1947.5 | 1763.2 | 1968.7 | 2068.2 | 1805.5 |
| GTPBP8 | 838.2 | 1133.1 | 501.4 | 557.6 | 477.7 | 554.7 | 694.2 | 1001.3 |
| GTPBP8 | 451.8 | 480.4 | 235.2 | 272.4 | 229.3 | 225.4 | 377.3 | 789.3 |
| GTPBP8 | 458.2 | 593.4 | 211.2 | 165.7 | 168.6 | 173.6 | 376.6 | 493.1 |
| GTPBP9 | 85.6 | 96.8 | 91.4 | 85.2 | 84.6 | 86.4 | 90 | 97.3 |
| GTSE1 | 543.9 | 611 | 463.4 | 287 | 282.8 | 321.1 | 529.8 | 687 |
| GUCA1A | 112.7 | 127.5 | 113.3 | 112.6 | 101 | 101.7 | 100.8 | 119.8 |
| GUCA1B | 139.7 | 152.6 | 124.1 | 125.8 | 114.5 | 132.1 | 133.4 | 210.9 |
| GUCA1C | 111.3 | 127.8 | 121.5 | 110.6 | 100 | 112.1 | 111.6 | 108.4 |
| GUCA2A | 120.5 | 143.8 | 98.2 | 91.9 | 87.2 | 90.8 | 102 | 128.5 |
| GUCA2B | 106.8 | 112.9 | 98.4 | 85.2 | 82.2 | 89.2 | 94.8 | 119.9 |
| GUCY1A2 | 86.1 | 108.9 | 101.3 | 94.6 | 92.8 | 98.4 | 99.2 | 107.5 |
| GUCY1A3 | 92 | 102.4 | 91.8 | 89.1 | 81.5 | 83.5 | 114.3 | 97.4 |
| GUCY1B3 | 129.6 | 132 | 112.6 | 97.7 | 99.1 | 100.6 | 116.1 | 115.3 |
| GUCY2C | 88.5 | 98.8 | 90.3 | 84.6 | 68.3 | 75.8 | 90.8 | 95.6 |
| GUCY2D | 114.8 | 122.5 | 101 | 91.5 | 84.4 | 91.6 | 98.8 | 115.7 |
| GUCY2F | 124.6 | 117.8 | 93.9 | 90.1 | 87.5 | 87.7 | 113.1 | 125 |
| GUF1 | 565 | 764 | 311 | 218.1 | 198.8 | 255.4 | 415.6 | 563.8 |
| GUK1 | 3054.4 | 3816.5 | 2147.6 | 1790.5 | 1590.1 | 2590.7 | 2767.8 | 4614.9 |
| GULP1 | 88.6 | 100.5 | 96.2 | 94.4 | 83.2 | 90.1 | 85.9 | 84.2 |
| GUP1 | 205.5 | 264.7 | 99.6 | 93 | 93.2 | 94.4 | 195.6 | 201.1 |
| GUSB | 2567.9 | 2987.1 | 2131.7 | 2306.9 | 1902.9 | 2736.6 | 2260.3 | 2820.6 |
| GUSBL2 | 363.4 | 472.1 | 206.4 | 341.8 | 290.5 | 240.8 | 262 | 370.8 |
| GYG1 | 2524.7 | 3442.6 | 1362.1 | 824.3 | 610.2 | 1250.7 | 1930.1 | 4204.6 |
| GYG2 | 586.9 | 826.6 | 491.1 | 596.9 | 422.3 | 567.8 | 373.2 | 348.9 |
| GYG2 | 82.6 | 90.9 | 86.2 | 84 | 83 | 84.5 | 87 | 86.4 |
| GYG2 | 139.5 | 182.2 | 138 | 141.8 | 122.6 | 131.1 | 121.4 | 129.8 |
| GYLTL1B | 90.6 | 100.2 | 94.5 | 90.9 | 81.3 | 82.8 | 86.4 | 99.8 |
| GYPA | 73.2 | 86.8 | 80.6 | 80 | 76.7 | 74.3 | 80.5 | 92.1 |
| GYPB | 80.7 | 88.5 | 88 | 88.1 | 83.1 | 85.1 | 75.3 | 81.6 |
| GYPC | 1710.2 | 2198.7 | 914.2 | 1107.2 | 949.4 | 1303.5 | 1492.6 | 1845.5 |

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|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| GYPC | 1753.2 | 2128 | 904.8 | 1207.7 | 852.7 | 1372.7 | 1641.3 | 2126 |
| GYPE | 94.1 | 122.7 | 88.9 | 86.3 | 94.2 | 90.1 | 110.6 | 106.3 |
| GYPE | 105.5 | 131.5 | 88.1 | 87.7 | 82.1 | 80.1 | 96.9 | 123.3 |
| GYPE | 69.4 | 81.8 | 91.5 | 94.9 | 88.2 | 88.8 | 71.1 | 77.5 |
| GYS1 | 211.6 | 286.4 | 216 | 236.6 | 179.7 | 321.4 | 190.7 | 278.3 |
| GYS2 | 100.8 | 107 | 101.8 | 111 | 96.5 | 107.3 | 93.6 | 99.6 |
| GZMA | 125.9 | 133.9 | 93.5 | 91.8 | 81.8 | 86 | 120 | 128.3 |
| GZMB | 77.8 | 88.5 | 92 | 81.4 | 87.3 | 88.5 | 81.8 | 87.1 |
| GZMH | 86.2 | 93.2 | 99.4 | 115.7 | 111.4 | 101.7 | 82.6 | 86.5 |
| GZMK | 86.3 | 94.8 | 78.2 | 90.5 | 83.4 | 84.8 | 90.7 | 98.3 |
| GZMM | 85.6 | 94.3 | 100.2 | 86.9 | 83.3 | 90.5 | 90.4 | 85.3 |
| H19 | 101.2 | 116.8 | 94.3 | 83.1 | 82.8 | 93.6 | 97.4 | 100.4 |
| H1F0 | 3574 | 4368.5 | 2597.8 | 1596.6 | 1454.5 | 2622.5 | 2511.6 | 4552.5 |
| H1FOO | 80.9 | 81.2 | 90.1 | 83.3 | 97.2 | 78.6 | 81.5 | 81.7 |
| H1FX | 346.9 | 487.8 | 420 | 282.6 | 273.7 | 390.5 | 245.9 | 448.2 |
| H1T2 | 110 | 128.9 | 109.2 | 97.1 | 98.4 | 100.6 | 121.6 | 116.7 |
| H2AFB1 | 83.7 | 102.6 | 83.8 | 90.9 | 93.3 | 90 | 85.2 | 91.6 |
| H2AFB2 | 104.9 | 137 | 98 | 99.2 | 86.3 | 84.7 | 97.4 | 116.7 |
| H2AFB3 | 73.2 | 81 | 90.2 | 74.1 | 80.6 | 87.4 | 84.3 | 86.5 |
| H2AFJ | 100.7 | 92.8 | 89.3 | 85.3 | 89.6 | 84.7 | 81.1 | 99.2 |
| H2AFJ | 774.2 | 1052.8 | 409 | 320.6 | 255.8 | 327.4 | 718.3 | 784.2 |
| H2AFV | 218.1 | 319.4 | 129.7 | 125.1 | 112.4 | 122 | 196.7 | 253.2 |
| H2AFX | 311.9 | 423.6 | 325.6 | 144.4 | 117.6 | 144.5 | 245.5 | 498.5 |
| H2AFY | 622.5 | 805 | 227.3 | 147.5 | 147.3 | 121.4 | 468.3 | 598.1 |
| H2AFY | 3671 | 4902.1 | 1734 | 1662 | 1432.1 | 1795.9 | 2791.8 | 3970.9 |
| H2AFY | 27047.1 | 29976.7 | 21523.6 | 20153.2 | 18810.5 | 23330.8 | 23777.7 | 27104.6 |
| H2AFY2 | 639.9 | 832.6 | 594.8 | 485.8 | 357.9 | 572.2 | 477.4 | 578.3 |
| H2AFZ | 26880.7 | 30074.5 | 20969.1 | 16695.4 | 12729.9 | 15215.1 | 24824.3 | 28271.9 |
| H2BFS | 270 | 386.6 | 185.6 | 244.5 | 216.4 | 195.3 | 225.7 | 234.6 |
| H2BFWT | 81.4 | 101.5 | 95.4 | 83.4 | 78.3 | 86.6 | 87.9 | 81 |
| H2BFXP | 83.8 | 103.9 | 87 | 86.9 | 86.7 | 91.6 | 85.5 | 82.9 |
| H3F3A | 30987.2 | 32776.1 | 36142.8 | 28586.7 | 23956 | 24334.1 | 31007.9 | 31500.6 |
| H3F3B | 1108.8 | 1399.8 | 772.8 | 1000.4 | 753.6 | 1222.2 | 1082.4 | 2229.3 |
| H6PD | 100.8 | 115.8 | 95.8 | 88.9 | 90.3 | 91 | 95.4 | 107.3 |
| HAAO | 127.4 | 146.4 | 106.9 | 98.9 | 101.5 | 105.9 | 136.4 | 152.7 |
| HABP2 | 85.8 | 91.1 | 88.7 | 82.2 | 78.8 | 85.8 | 87.1 | 86 |
| HABP4 | 255.5 | 338.5 | 143 | 150.4 | 124.2 | 173.2 | 263.5 | 441.6 |
| HACE1 | 170 | 198 | 111 | 102.9 | 91.2 | 114.6 | 165.9 | 202 |
| HADH2 | 617.3 | 822.1 | 541.2 | 430.6 | 363.1 | 512 | 636.1 | 759.8 |
| HADH2 | 966.8 | 1248.1 | 701.6 | 578.4 | 469.5 | 710.4 | 870 | 1179 |
| HADHA | 875.1 | 1212.3 | 700.9 | 555.5 | 525.5 | 637.5 | 728.7 | 728.2 |
| HADHB | 900 | 1169 | 213.2 | 229.9 | 214.3 | 311.1 | 732.7 | 1094.3 |
| HADHSC | 3982.3 | 5046.8 | 2428.7 | 2264.9 | 1602.5 | 2459.6 | 3060.6 | 3772 |
| HAGH | 300.6 | 391.5 | 225.5 | 151.3 | 161.6 | 183.4 | 331.1 | 369.5 |
| HAGH | 1348.1 | 1559.8 | 968.1 | 776.4 | 683.5 | 748.1 | 1350.1 | 1318.5 |
| HAGHL | 201.3 | 221.7 | 208.8 | 185.3 | 185.1 | 261.2 | 138.4 | 222.2 |
| HAGHL | 191.3 | 253.2 | 107.7 | 94.7 | 94.5 | 99.2 | 192.6 | 229.7 |
| HAGHL | 390.1 | 425.6 | 335.1 | 315.8 | 292.8 | 440.4 | 303.1 | 451.9 |
| HAK | 108.8 | 141.5 | 100.4 | 91.9 | 84.9 | 78.5 | 116.6 | 127 |
| HAL | 186.1 | 220.5 | 128.6 | 228 | 176.9 | 301 | 140.1 | 139.9 |

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|---------|--------|--------|--------|--------|-------|--------|---------|---------|
| HAMP | 96.2 | 94.7 | 89.9 | 86.7 | 89.1 | 87.6 | 92.4 | 97.8 |
| HAND1 | 100.4 | 95.5 | 93 | 80 | 79.8 | 91.6 | 85.3 | 116.4 |
| HAND2 | 113 | 109.8 | 99.8 | 98.7 | 87.5 | 96.9 | 101.6 | 104.8 |
| HAO1 | 115.2 | 142.7 | 101.2 | 88 | 84 | 95.1 | 127 | 133.4 |
| HAO2 | 106.3 | 127.6 | 89.3 | 89.1 | 78.5 | 82.9 | 111.6 | 117.2 |
| HAO2 | 105.6 | 131.2 | 93.1 | 89.4 | 90.2 | 81.6 | 101.7 | 109.5 |
| HAP1 | 94.7 | 93.6 | 93.5 | 91 | 80.9 | 93.1 | 104.1 | 100.3 |
| HAP1 | 127.1 | 151.7 | 107.1 | 96.4 | 99.5 | 101.3 | 142 | 121.5 |
| HAP1 | 96.3 | 96.5 | 89.1 | 96.9 | 90 | 86.1 | 81.4 | 91.8 |
| HAPLN1 | 74.7 | 79.9 | 87.3 | 81.1 | 73.6 | 84.9 | 82.4 | 83.8 |
| HAPLN2 | 96.5 | 113.9 | 113.1 | 104.3 | 101.8 | 96.1 | 97.5 | 103.1 |
| HAPLN3 | 116.3 | 141.2 | 114.1 | 98 | 85.5 | 98.2 | 101.5 | 136 |
| HAPLN4 | 91.3 | 92.9 | 108.5 | 105.3 | 95.5 | 103.8 | 88 | 83.3 |
| HARS | 1477.2 | 1817.1 | 944.3 | 818.3 | 675 | 903.2 | 1353.3 | 1330.7 |
| HARS2 | 390.7 | 625.6 | 348.6 | 291.6 | 255.4 | 430 | 328.5 | 457.8 |
| HARSL | 1717.9 | 2011.7 | 1052.2 | 1257 | 851.8 | 1325.7 | 1471.2 | 2473.2 |
| HAS1 | 86.7 | 99.8 | 80.7 | 83.1 | 85.5 | 86.7 | 86.2 | 105.3 |
| HAS2 | 82.9 | 91.1 | 94.9 | 91 | 89.1 | 92 | 87.1 | 77 |
| HAS2 | 77.4 | 96.9 | 87.2 | 84 | 79.6 | 78.6 | 88.2 | 85.9 |
| HAS3 | 103.7 | 117.2 | 98.3 | 85 | 85.5 | 96.4 | 107.9 | 124.4 |
| HAS3 | 92.3 | 104.7 | 109.9 | 112.3 | 93 | 105.7 | 99.5 | 109.3 |
| HAT1 | 2443.7 | 2579 | 768.3 | 647.3 | 450.8 | 933.6 | 1984.7 | 4552.2 |
| HAT1 | 1070.7 | 1343.8 | 210.8 | 193.6 | 176.6 | 283.3 | 848.7 | 1445.4 |
| HAVCR1 | 85.1 | 110.7 | 87.3 | 79.5 | 80 | 91.1 | 93.7 | 101.4 |
| HAVCR2 | 127.3 | 142.9 | 130.3 | 127.5 | 113.3 | 146.1 | 147.4 | 207.4 |
| HAX1 | 1497.2 | 1701.1 | 624.1 | 373.1 | 367.9 | 552.4 | 1566.6 | 1956 |
| HAX1 | 451.7 | 658.6 | 341.6 | 248.7 | 227 | 298 | 437 | 485.8 |
| HAX1 | 431.3 | 529.7 | 234.1 | 177.4 | 168.6 | 230.1 | 449.8 | 671.4 |
| HB-1 | 104.7 | 126 | 86.6 | 77.8 | 81.9 | 88.5 | 109.8 | 119.7 |
| HBA2 | 119 | 115.1 | 106.6 | 90 | 85.3 | 92.6 | 117.3 | 110.6 |
| HBB | 98.6 | 108.8 | 88.5 | 100.5 | 97.9 | 100.2 | 97.4 | 92.7 |
| HBD | 93 | 93.6 | 98.4 | 89.9 | 91.7 | 84.3 | 87.2 | 90.2 |
| HBE1 | 86.4 | 92.9 | 90.8 | 83.5 | 81.4 | 81.6 | 89.1 | 98.3 |
| HBEGF | 245.1 | 275.3 | 172.6 | 148.5 | 111.1 | 157.6 | 229.1 | 454.4 |
| HBG1 | 114.3 | 136.3 | 90.9 | 87.1 | 89.3 | 91.3 | 113.7 | 127 |
| HBG2 | 76.5 | 93.4 | 100.4 | 98.5 | 85.4 | 94.6 | 76.3 | 85.3 |
| HBM | 92.5 | 94.8 | 86.8 | 88.3 | 87.5 | 91.7 | 90.1 | 95.5 |
| HBP1 | 291.4 | 391.5 | 220.7 | 279.6 | 258.2 | 340.9 | 348.7 | 422.5 |
| HBQ1 | 152.6 | 177.9 | 126.4 | 88.2 | 90.5 | 89.3 | 144 | 144.1 |
| HBS1L | 99.9 | 108.9 | 92 | 85.3 | 74.6 | 97 | 106.5 | 102.2 |
| HBXAP | 132.7 | 151.1 | 94.4 | 85 | 92.7 | 87.7 | 119.3 | 163.5 |
| HBXIP | 9676.9 | 11482 | 7424.8 | 4444.8 | 3331 | 5146.4 | 10136.4 | 12353.5 |
| HBZ | 99.3 | 117.4 | 97.3 | 85.8 | 84.2 | 80.5 | 98.6 | 108.5 |
| HCA112 | 90.2 | 112.7 | 91.9 | 94.6 | 103.1 | 96.3 | 94 | 101.3 |
| HCAP-D3 | 561.4 | 803 | 618 | 540.3 | 520.5 | 783.7 | 531.3 | 845.2 |
| HCAP-G | 2290 | 2332.1 | 811.6 | 715.1 | 583.2 | 947.4 | 1742.5 | 2648.8 |
| HCAP-H2 | 345.5 | 406.4 | 205.1 | 186.3 | 143.2 | 230.7 | 293.5 | 375.6 |
| HCAP-H2 | 112.3 | 128.4 | 104.3 | 90.7 | 92.2 | 90 | 108.9 | 141.4 |
| HCAP-H2 | 293.4 | 382.5 | 172.1 | 129.3 | 131.9 | 125.2 | 259.7 | 318.4 |
| HCCA2 | 204.1 | 235 | 171.5 | 141.7 | 137.4 | 160 | 214.7 | 301.4 |

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|----------|---------|---------|--------|--------|--------|--------|---------|---------|
| HCCS | 157.1 | 157.7 | 101.2 | 100.4 | 91.1 | 102 | 138 | 188.5 |
| HCFC1 | 3129.3 | 4154.3 | 2001.2 | 2376.9 | 1775 | 2104.2 | 3020.2 | 3793 |
| HCFC1R1 | 371.5 | 400.1 | 163.9 | 141 | 121.6 | 116.9 | 301.9 | 138.7 |
| HCFC1R1 | 1152.7 | 1317.6 | 839.3 | 755.2 | 518.8 | 607.5 | 1108 | 1980.4 |
| HCFC2 | 148.1 | 189.3 | 131.2 | 140.6 | 121.1 | 191.7 | 132 | 217.8 |
| HCG27 | 128.5 | 128.6 | 106.7 | 102.6 | 93.1 | 110.3 | 113 | 110.5 |
| HCG2P7 | 2746.7 | 2793 | 1676.6 | 2904 | 2659.5 | 2059 | 3276.5 | 4875.3 |
| HCG3 | 108.6 | 116.2 | 94.7 | 95.9 | 94.6 | 93.8 | 95 | 140.3 |
| HCG4 | 98.4 | 109.3 | 92.7 | 83.2 | 80.5 | 85.3 | 93.4 | 102.4 |
| HCG9 | 82.9 | 89.1 | 88.2 | 81.9 | 79.7 | 83.3 | 87 | 89.9 |
| HCK | 414.6 | 525.9 | 383.5 | 557.7 | 574.9 | 743.4 | 419.9 | 714.8 |
| HCLS1 | 7042.3 | 8611.2 | 5309.4 | 5197.3 | 4194.8 | 6947.8 | 6909.5 | 9371.6 |
| HCN1 | 103.9 | 106.2 | 101 | 86.5 | 85.1 | 91.4 | 107 | 102.7 |
| HCN2 | 96.7 | 104.3 | 93.8 | 73.8 | 79.1 | 84.8 | 87 | 93.9 |
| HCN3 | 138.2 | 142.5 | 151.6 | 114.4 | 136.8 | 136.8 | 118.5 | 126.9 |
| HCN4 | 97 | 122.9 | 110.7 | 106.2 | 107.8 | 105.6 | 93.6 | 111 |
| HCP1 | 98.2 | 123.3 | 124.9 | 119.4 | 114 | 106.9 | 95.8 | 110.6 |
| HCP5 | 252.6 | 326.5 | 220.4 | 142.3 | 137.1 | 161 | 165.5 | 166.8 |
| HCRT | 98.1 | 102.7 | 129.5 | 112.5 | 120.5 | 117.7 | 102 | 101.5 |
| HCRTR1 | 92.7 | 102.8 | 97.3 | 94.8 | 81.2 | 89.5 | 93.1 | 97 |
| HCRTR2 | 104.9 | 110.1 | 113.6 | 108.7 | 99.2 | 102.1 | 97.1 | 116.2 |
| HCST | 2940.6 | 3665.4 | 2695.4 | 1212.9 | 1018 | 983.1 | 3382.1 | 4677.6 |
| HCST | 314.4 | 389 | 225.9 | 146.4 | 143 | 135.2 | 402.4 | 417.9 |
| HCTSL-S | 109 | 129.2 | 101.2 | 91.6 | 86.7 | 84.1 | 96.8 | 120.4 |
| HDAC1 | 7949.3 | 9426 | 4756.1 | 4461.8 | 3803.2 | 5131 | 6978.3 | 6750.4 |
| HDAC10 | 127.4 | 136 | 139.7 | 124.1 | 108.7 | 137.1 | 104.3 | 126.9 |
| HDAC11 | 121.2 | 126.4 | 88.7 | 91.2 | 80.5 | 92.1 | 109.1 | 143.7 |
| HDAC2 | 5830.6 | 7138.4 | 2322 | 2547.4 | 1548.9 | 3323.2 | 3873 | 9008.9 |
| HDAC3 | 1150.2 | 1406.2 | 874.7 | 845.4 | 681.8 | 990.1 | 883.9 | 1735.9 |
| HDAC4 | 396.1 | 519.5 | 240.4 | 287.1 | 232.1 | 272.1 | 317.6 | 433.2 |
| HDAC5 | 144.1 | 163.8 | 112.5 | 84.2 | 77.2 | 86.8 | 157.1 | 149.3 |
| HDAC5 | 98.9 | 103.3 | 110.1 | 105.7 | 97 | 104.5 | 90.1 | 114.7 |
| HDAC6 | 229 | 273.3 | 245.7 | 288.5 | 252.2 | 368.1 | 203.1 | 287.7 |
| HDAC7A | 80.1 | 93.4 | 89.3 | 85.7 | 88.6 | 93.3 | 86.6 | 88.7 |
| HDAC7A | 100.1 | 120 | 98.8 | 82.1 | 85.1 | 90.5 | 100 | 120.5 |
| HDAC8 | 276.5 | 388.3 | 185.4 | 166 | 140.9 | 202.2 | 244.1 | 268.5 |
| HDAC9 | 140 | 172 | 107.6 | 98.7 | 89.1 | 100.4 | 131.3 | 156.9 |
| HDAC9 | 106.5 | 138.7 | 88.5 | 103.1 | 99.8 | 172.5 | 98 | 107.5 |
| HDAC9 | 94 | 91.4 | 100.9 | 98.5 | 92.3 | 109.1 | 89.5 | 103 |
| HDAC9 | 84.3 | 77 | 74.9 | 82.2 | 78 | 94 | 89.1 | 83.8 |
| HDAC9 | 108.7 | 119.6 | 87 | 106.6 | 97.2 | 131.5 | 84.7 | 97.5 |
| HDC | 90.8 | 111.7 | 81.9 | 81.9 | 77.6 | 82.9 | 89.9 | 98.9 |
| HDCMA18F | 1421.8 | 1697.7 | 552.7 | 518.4 | 441.7 | 995 | 1219.9 | 2106.4 |
| HDDC2 | 11039.3 | 12048.7 | 4451.2 | 4798.7 | 3993.7 | 5479.6 | 10270.9 | 12080.8 |
| HDDC3 | 1040.5 | 1312.4 | 776 | 562.5 | 427.6 | 655.6 | 776 | 1075 |
| HDGF | 2015.1 | 2549.2 | 2084.7 | 866 | 757.2 | 1115.4 | 1582.2 | 3749.6 |
| HDGF2 | 686.9 | 802.1 | 322.1 | 246.2 | 220.1 | 287.4 | 634.7 | 889.5 |
| HDGF2 | 395.2 | 532.3 | 379.7 | 367.2 | 354.7 | 467.1 | 339.1 | 394.8 |
| HDGFL1 | 108 | 94.2 | 100.3 | 93.3 | 84.9 | 95.8 | 84.8 | 102.2 |
| HDGFRP3 | 93.3 | 120.8 | 89.5 | 93.5 | 87.3 | 75.8 | 106 | 127.4 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| HDHD1A | 632.9 | 903.8 | 397.4 | 341.9 | 250.3 | 313.6 | 520.3 | 565.8 |
| HDHD2 | 592.8 | 714.7 | 166.9 | 189.5 | 194.2 | 216.6 | 479.6 | 527.5 |
| HDHD3 | 213.4 | 277.8 | 167.8 | 121.5 | 128.7 | 127.9 | 200.4 | 294.3 |
| HDLBP | 165.8 | 221 | 104.7 | 151.9 | 137.4 | 122.6 | 154.5 | 178.6 |
| HDLBP | 97.1 | 124.4 | 106.3 | 101.3 | 93.9 | 87.7 | 98.7 | 108.1 |
| HDLBP | 98.2 | 96.9 | 108.9 | 116.3 | 110.3 | 94.4 | 97.9 | 101.8 |
| HEAB | 543.4 | 739 | 353.6 | 326.2 | 266.1 | 338 | 466.2 | 704.1 |
| HEATR1 | 2098.8 | 2927.3 | 1638.7 | 1343.2 | 945.5 | 1593 | 1517.4 | 1484 |
| HEATR5B | 360.9 | 612.8 | 317.6 | 412.8 | 342.8 | 582.3 | 304.5 | 493.1 |
| HEBP1 | 784 | 1064.5 | 276.2 | 411.2 | 252.2 | 443.3 | 1116.5 | 1544.3 |
| HEBP2 | 3553.6 | 4055.1 | 1284.9 | 1395.7 | 1042.6 | 1815.8 | 3585.2 | 5148.1 |
| HECA | 202.8 | 267.1 | 131.6 | 180.8 | 158.1 | 264.7 | 246.6 | 391.9 |
| HECTD1 | 958.6 | 1560.7 | 1246.9 | 2125.2 | 1798.1 | 3647.9 | 1051.2 | 1821.7 |
| HECTD2 | 104.8 | 123.9 | 86.5 | 91.8 | 83.7 | 86.8 | 100.8 | 123 |
| HECTD2 | 109.8 | 105.9 | 95 | 83.2 | 78.2 | 87.6 | 84.5 | 102.9 |
| HECTD2 | 157.3 | 209.1 | 101.4 | 111.4 | 102 | 109.5 | 146.4 | 166.9 |
| HECTD3 | 252.9 | 308 | 221.2 | 216.3 | 201.6 | 203.4 | 209.2 | 261.1 |
| HECW1 | 97.4 | 106.8 | 84.7 | 81.5 | 74.3 | 71 | 94.2 | 100.1 |
| HECW2 | 98.2 | 117.2 | 106 | 99 | 104.4 | 98.4 | 101.6 | 105.7 |
| HEL308 | 324.5 | 395 | 269.9 | 263 | 210.4 | 376.9 | 273.8 | 510.4 |
| HELB | 135.7 | 169.6 | 109 | 109.3 | 111.3 | 116.8 | 122.1 | 146.6 |
| HELLS | 549.5 | 730.6 | 245.5 | 178.7 | 168.7 | 233.2 | 402.5 | 610.7 |
| HELT | 79.2 | 86.9 | 87.3 | 91.9 | 86.2 | 88.7 | 87.5 | 92.4 |
| HELZ | 230.6 | 378.6 | 252.5 | 568.8 | 508.9 | 782.8 | 254.1 | 466.1 |
| HEM1 | 661.3 | 819.7 | 313.7 | 532.3 | 469.2 | 475.9 | 662.9 | 654.4 |
| HEMGN | 99.7 | 113.6 | 96.1 | 92.6 | 89.2 | 83.2 | 99.9 | 108.8 |
| HEMGN | 77.2 | 88.5 | 101.5 | 89.7 | 90.3 | 86.1 | 78.1 | 91.7 |
| HEMGN | 76 | 87.5 | 87.2 | 84.5 | 84.9 | 86.8 | 76.6 | 73.5 |
| HEMK1 | 161.5 | 172.9 | 151.9 | 194.5 | 174.4 | 235.8 | 142 | 162.1 |
| HEPACAM | 87.6 | 85.9 | 89.2 | 81.8 | 81.2 | 84.9 | 90.4 | 88.3 |
| HEPH | 65.7 | 71 | 87.7 | 79.3 | 83.2 | 81.4 | 85.3 | 85.2 |
| HEPH | 80.9 | 100.4 | 80.5 | 76.3 | 79.9 | 83.2 | 76.5 | 86.7 |
| HERC1 | 257.6 | 409.2 | 318 | 669 | 630.7 | 1121.6 | 258.1 | 327.3 |
| HERC2 | 438.1 | 586.9 | 361 | 584.6 | 557 | 760.5 | 453.2 | 499.5 |
| HERC2P2 | 118.2 | 159 | 112.4 | 102.7 | 115.1 | 103.8 | 115.3 | 120.5 |
| HERC2P4 | 89.7 | 102.4 | 91.4 | 82.3 | 83.9 | 80.4 | 90 | 94.9 |
| HERC3 | 225.7 | 325.3 | 175.9 | 167.1 | 148 | 258 | 194.5 | 266.1 |
| HERC4 | 168.3 | 191.8 | 126 | 127.8 | 106 | 122.5 | 163 | 230.5 |
| HERC4 | 131.5 | 151.3 | 105.2 | 90.3 | 81.3 | 99.5 | 129.8 | 189.9 |
| HERC4 | 612.9 | 816.3 | 467 | 343.5 | 289.6 | 587.4 | 498.2 | 952.7 |
| HERC5 | 573 | 700.8 | 384 | 314.5 | 277 | 369.6 | 445.5 | 477.9 |
| HERC6 | 174.7 | 208.3 | 187.8 | 173 | 149.4 | 204.9 | 158.2 | 230.5 |
| HERPUD1 | 1153.1 | 1448.6 | 595 | 367.7 | 266.1 | 427.4 | 1553.2 | 2881.1 |
| HERPUD2 | 119.7 | 121.4 | 105.7 | 102.9 | 102.5 | 112.3 | 128 | 179.1 |
| HERV-FRD | 124.4 | 124.2 | 100.4 | 109.6 | 98.1 | 95.8 | 98.6 | 114.9 |
| HES1 | 84.5 | 97.5 | 93.5 | 85.7 | 77 | 81.9 | 89.5 | 106.5 |
| HES2 | 91.2 | 109.2 | 79 | 86.5 | 86.2 | 82.2 | 91.7 | 119.1 |
| HES4 | 154.6 | 181.7 | 123.2 | 94.9 | 102.9 | 101.3 | 139.8 | 152.6 |
| HES6 | 1980.9 | 2173.1 | 974.2 | 912.5 | 893.9 | 1065.6 | 1480.8 | 1674.7 |
| HES7 | 71.9 | 77.1 | 81.5 | 62.5 | 71.7 | 82.4 | 76.8 | 85.7 |

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|---------|--------|---------|--------|---------|---------|---------|--------|---------|
| HESX1 | 161.3 | 216.9 | 147.5 | 137.3 | 152.2 | 178.3 | 174.3 | 218.5 |
| HEXA | 117.6 | 152.2 | 103.8 | 98.3 | 94.8 | 112.8 | 122.5 | 136.8 |
| HEXB | 9393.1 | 11805.3 | 8756.9 | 14033.1 | 11485.9 | 17228.2 | 8208.5 | 12713.4 |
| HEXDC | 151 | 181.8 | 114.1 | 104.4 | 102.5 | 104.4 | 134.4 | 136.9 |
| HEXIM1 | 132.3 | 138 | 107.1 | 100.1 | 93.7 | 100.8 | 106 | 140.1 |
| HEXIM2 | 172.7 | 228.7 | 140.2 | 141.1 | 126.8 | 149.6 | 149.3 | 154.6 |
| HEY1 | 109 | 113.2 | 84.3 | 77.5 | 83.8 | 87.7 | 105.5 | 106.4 |
| HEY1 | 89.4 | 106.1 | 103.4 | 92.4 | 94.5 | 92.3 | 93.7 | 109.8 |
| HEY2 | 95.9 | 98.8 | 97.2 | 88.1 | 79.4 | 83.5 | 96.7 | 126.6 |
| HEYL | 606.7 | 802.1 | 564.3 | 524.8 | 426.8 | 562.3 | 488.2 | 582.2 |
| HFE | 82.7 | 93.2 | 101.8 | 85.8 | 83.5 | 78.4 | 81.9 | 92.9 |
| HFE | 90.4 | 102.2 | 94.2 | 86 | 89.4 | 91.1 | 100 | 101.5 |
| HFE | 125.5 | 134.7 | 106.2 | 84.1 | 81.2 | 94.9 | 105.2 | 127.7 |
| HFE2 | 80.5 | 101.5 | 89.3 | 82.4 | 81.9 | 84.1 | 90.7 | 104.2 |
| HFE2 | 81.6 | 98 | 89 | 92.2 | 86.6 | 83.1 | 81.4 | 86 |
| HFE2 | 82.9 | 87.2 | 91.9 | 92 | 76.4 | 83.4 | 79.6 | 84.6 |
| HGD | 118.6 | 131.5 | 108.4 | 91.4 | 94.1 | 102.2 | 143.7 | 179 |
| HGF | 106.4 | 113.6 | 78.9 | 74.5 | 72.9 | 89.2 | 100.2 | 124 |
| HGF | 167.6 | 174.2 | 108.3 | 106 | 95.1 | 112 | 145.7 | 179.9 |
| HGF | 97.7 | 102.4 | 88.5 | 81 | 80.9 | 94 | 94 | 108.6 |
| HGFAC | 86.2 | 101.4 | 94.3 | 76 | 75 | 82.6 | 89.8 | 105.3 |
| HGS | 3171.4 | 3667.4 | 2873.8 | 2035.9 | 2002.3 | 2214.2 | 2816.4 | 3126.1 |
| HHAT | 114.1 | 132.9 | 92.6 | 90.2 | 84.5 | 84.2 | 114.6 | 133.7 |
| HHEX | 605.7 | 813.7 | 161.1 | 132.3 | 125.9 | 155.8 | 677.7 | 1082.7 |
| HHIP | 78.7 | 91.7 | 88.7 | 85.8 | 80 | 89.2 | 85.4 | 93.9 |
| HHLA1 | 97.1 | 95.1 | 94.3 | 95 | 92.9 | 95.9 | 89.1 | 95 |
| HHLA2 | 84.2 | 100.9 | 99.3 | 86 | 79.7 | 79.1 | 77.7 | 86.9 |
| HHLA3 | 135.5 | 170.5 | 140.6 | 106.4 | 112.1 | 117.5 | 123.1 | 160.3 |
| HHLA3 | 85.7 | 104.6 | 98.1 | 79.5 | 84.8 | 82.9 | 91 | 105.4 |
| HHLA3 | 109.5 | 117.1 | 98.5 | 80.2 | 81.7 | 82.5 | 91.1 | 116.8 |
| HIAT1 | 181.5 | 200.7 | 118.7 | 91.1 | 98.5 | 100.3 | 182.7 | 303.7 |
| HIATL1 | 1332.7 | 1607.7 | 1193.7 | 1040.2 | 684.6 | 1798.9 | 1055.9 | 1676.2 |
| HIBADH | 1022 | 1414.5 | 718.1 | 920.6 | 750.9 | 1367.8 | 756.5 | 1025.2 |
| HIBCH | 766.8 | 992.3 | 557.6 | 538.2 | 380.8 | 664.9 | 585.3 | 936.4 |
| HIC1 | 88.5 | 98.2 | 123.4 | 99.6 | 102.4 | 107.4 | 84.6 | 90.6 |
| HIC2 | 736.4 | 935.7 | 582.7 | 497.3 | 466 | 497.1 | 649.4 | 804 |
| HIF1A | 209.5 | 213.8 | 118.8 | 146.1 | 123.4 | 172.4 | 212.7 | 309.6 |
| HIF1A | 318 | 396.7 | 167.4 | 163.2 | 122.9 | 204 | 255.8 | 395.5 |
| HIF1AN | 221.9 | 261.9 | 183.7 | 143 | 126 | 153.9 | 217.3 | 254.9 |
| HIF3A | 97.8 | 102.2 | 105.2 | 85.4 | 89.3 | 85.8 | 110.6 | 96.8 |
| HIF3A | 100.7 | 136.7 | 99.6 | 88.1 | 87 | 82.7 | 115.1 | 129.3 |
| HIF3A | 97.5 | 94.4 | 93.4 | 90 | 85.4 | 83.8 | 94.5 | 102.3 |
| HIF3A | 97 | 101.9 | 103.5 | 90.7 | 93 | 92.1 | 98.2 | 111.3 |
| HIF3A | 79.5 | 86.5 | 93.8 | 84.6 | 81.1 | 82.5 | 84.8 | 99.4 |
| HIG2 | 349.5 | 429.5 | 150.3 | 161.4 | 158.8 | 216.4 | 272.5 | 278.2 |
| HIGD1A | 1612.5 | 1657.9 | 789.7 | 783.9 | 488 | 795.7 | 1640.4 | 3449.4 |
| HIGD1B | 86.6 | 101.8 | 90.3 | 81.8 | 86.8 | 88.6 | 102.2 | 115.6 |
| HIGD2A | 3577.1 | 4834.4 | 2086.8 | 1978.9 | 1496.4 | 1934.1 | 3360.3 | 4895.6 |
| HIGD2BP | 79.1 | 88.4 | 92.2 | 84.1 | 95.5 | 88.5 | 83.3 | 89.2 |
| HIGD2BP | 100.6 | 104.5 | 85.3 | 83.8 | 81.6 | 84.5 | 96.3 | 100 |

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|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| HILS1 | 92.1 | 108.3 | 98.2 | 86.5 | 87.4 | 92.4 | 93.1 | 88.8 |
| HINT1 | 13339.9 | 15559.5 | 11174.4 | 12263.4 | 10279.1 | 13228.4 | 11203.9 | 16302.2 |
| HINT2 | 1482.2 | 1675.2 | 1136.7 | 1085.3 | 861 | 1021.1 | 1407.4 | 1872.6 |
| HINT3 | 91.6 | 102.3 | 91.3 | 91.6 | 93.3 | 89.4 | 92.4 | 89 |
| HIP1 | 197.4 | 354.9 | 218.9 | 133.6 | 133.2 | 167.9 | 238.5 | 297.2 |
| HIP1R | 88.9 | 123.9 | 104.2 | 101.7 | 92.8 | 97.1 | 93.5 | 116 |
| HIP1R | 102 | 119.5 | 98 | 88.5 | 80.7 | 95.4 | 97.7 | 121.5 |
| HIP1R | 108.2 | 106.7 | 103.6 | 88.8 | 99 | 98.9 | 96.1 | 114.3 |
| HIP2 | 101.9 | 110.9 | 86.7 | 85 | 84.8 | 91.7 | 99.2 | 118 |
| HIPK1 | 70.5 | 88.5 | 94.9 | 83.3 | 81.5 | 80.1 | 82 | 82.4 |
| HIPK1 | 79.5 | 92.8 | 94.2 | 87.4 | 80 | 95.1 | 88 | 83.3 |
| HIPK1 | 100.1 | 104.4 | 105 | 102.5 | 93.6 | 90.2 | 98.5 | 112.4 |
| HIPK1 | 93 | 120.7 | 92.1 | 81.7 | 84.2 | 89 | 96.3 | 108.3 |
| HIPK2 | 168 | 226.8 | 115 | 224.4 | 146.9 | 158.6 | 224.4 | 297.5 |
| HIPK3 | 155.9 | 214 | 131.9 | 96.6 | 110.7 | 134.1 | 117.8 | 124.5 |
| HIPK3 | 195.2 | 256.8 | 116.2 | 112.2 | 99.9 | 120.2 | 153.8 | 213.6 |
| HIPK4 | 86.7 | 103.8 | 96.8 | 82.8 | 83.9 | 91.8 | 87.8 | 99.2 |
| HIRA | 131.7 | 162.6 | 98 | 92.4 | 94.2 | 102.6 | 115.2 | 145.1 |
| HIRIP3 | 1464.1 | 1959.2 | 888.5 | 580.7 | 508.7 | 598.4 | 1019.5 | 694.1 |
| HISPPD1 | 90.3 | 91.4 | 94.5 | 91.3 | 85.5 | 90.3 | 87.2 | 102.6 |
| HISPPD2A | 220.7 | 286.1 | 359.2 | 406.7 | 329.6 | 555.3 | 212.3 | 300.6 |
| HISPPD2A | 72.4 | 79.5 | 88.8 | 87.5 | 94.3 | 82.9 | 86.9 | 77 |
| HISPPD2A | 89 | 114.1 | 103.5 | 98.9 | 97.6 | 89.7 | 92.3 | 96.2 |
| HIST1H1A | 103.6 | 117.9 | 112.2 | 104.2 | 106.6 | 110.3 | 102.4 | 95 |
| HIST1H1B | 86.2 | 97.4 | 110.1 | 103.1 | 92.8 | 98.3 | 88.4 | 89.8 |
| HIST1H1C | 263.7 | 313.1 | 120.5 | 138 | 118.1 | 117.8 | 267 | 314.1 |
| HIST1H1D | 92.4 | 111 | 101.2 | 99.1 | 96.3 | 93.3 | 92.7 | 99.1 |
| HIST1H1E | 75 | 82.6 | 88 | 86.7 | 80 | 76.3 | 83.6 | 76.1 |
| HIST1H1T | 90.1 | 105.6 | 93.8 | 98.9 | 88.4 | 87.6 | 91.6 | 100 |
| HIST1H2AA | 96.5 | 101.8 | 110.1 | 96.9 | 97.8 | 96 | 93.7 | 99.2 |
| HIST1H2AB | 112.1 | 112.7 | 81 | 86.9 | 86.1 | 76.9 | 94.1 | 113.9 |
| HIST1H2AC | 91.7 | 116.9 | 83.2 | 98.7 | 96.1 | 96.2 | 101 | 103.8 |
| HIST1H2AC | 80.8 | 83.1 | 87.5 | 79.4 | 78.7 | 80 | 77.2 | 79.1 |
| HIST1H2AE | 83.3 | 91.1 | 89.3 | 91.8 | 90.8 | 87.7 | 88 | 85.9 |
| HIST1H2AC | 75.3 | 75.8 | 90.4 | 78.1 | 77.5 | 82 | 81.9 | 76.8 |
| HIST1H2AF | 91.9 | 94.1 | 95 | 98.5 | 90.3 | 92.3 | 88.5 | 89.3 |
| HIST1H2AI | 106.8 | 118.8 | 94.5 | 96.3 | 90.6 | 96.7 | 107.1 | 112.1 |
| HIST1H2AJ | 94.7 | 96.9 | 87.8 | 92.7 | 84.6 | 91.7 | 92.9 | 95.7 |
| HIST1H2AK | 94.3 | 115.7 | 93.5 | 81.5 | 80.4 | 81.3 | 85.6 | 106.5 |
| HIST1H2AN | 106.7 | 104 | 101.5 | 106.6 | 109.8 | 94.4 | 101.7 | 102.5 |
| HIST1H2BA | 77.9 | 80.9 | 93.7 | 78.3 | 80.6 | 92.5 | 80.1 | 78.6 |
| HIST1H2BB | 89 | 101.2 | 91 | 89.9 | 84.6 | 85.8 | 88.6 | 96 |
| HIST1H2BC | 122.9 | 138.5 | 102.1 | 98 | 88.8 | 99.9 | 135.5 | 147.4 |
| HIST1H2BD | 143.8 | 187 | 138.4 | 130.6 | 133.5 | 135.6 | 152.1 | 175.5 |
| HIST1H2BD | 133.5 | 146.2 | 114.2 | 140.5 | 117.2 | 110.5 | 116.8 | 128.6 |
| HIST1H2BD | 78 | 77.1 | 95.1 | 84.8 | 75.9 | 86 | 72 | 81.7 |
| HIST1H2BE | 119.6 | 139.2 | 108.2 | 100.8 | 103.1 | 96.9 | 117.8 | 133.7 |
| HIST1H2BF | 111.8 | 129 | 112.5 | 157.7 | 161 | 113.3 | 112.2 | 125.3 |
| HIST1H2BG | 129.7 | 160.7 | 100.1 | 107.7 | 105 | 109.8 | 129.6 | 133.3 |
| HIST1H2BH | 763.5 | 960.2 | 269.3 | 281.7 | 221.5 | 238.3 | 674.9 | 782.4 |

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|-----------|---------|---------|---------|---------|---------|--------|---------|--------|
| HIST1H2BI | 72.3 | 84.2 | 89.6 | 80.5 | 77.6 | 77.7 | 79.5 | 81.6 |
| HIST1H2BJ | 840.6 | 833 | 415.3 | 339.4 | 335.5 | 378 | 749.3 | 790.2 |
| HIST1H2BK | 1486.7 | 2117.4 | 944.3 | 1848 | 1268.5 | 1826.5 | 1483.6 | 1868.2 |
| HIST1H2BL | 85.6 | 92.9 | 86.4 | 81.4 | 87.1 | 96.2 | 89.3 | 94.1 |
| HIST1H2BN | 128.7 | 144.9 | 104.3 | 93.6 | 90.1 | 96.1 | 108.2 | 126.5 |
| HIST1H2BC | 79.7 | 88.5 | 93.8 | 90.3 | 83.2 | 82.3 | 81.8 | 83.2 |
| HIST1H3A | 131.9 | 152 | 105.4 | 98.9 | 96.4 | 108.8 | 126.6 | 143.3 |
| HIST1H3B | 97.1 | 103.5 | 91.4 | 93.8 | 80.9 | 90.5 | 91.7 | 86.8 |
| HIST1H3C | 155.1 | 193.1 | 120.1 | 128.4 | 102.8 | 135 | 167.3 | 174.5 |
| HIST1H3D | 131 | 154.5 | 117.6 | 102.4 | 110 | 109.7 | 135.3 | 143.6 |
| HIST1H3F | 119.5 | 151.1 | 100 | 106.3 | 91.7 | 97.2 | 116.9 | 150.4 |
| HIST1H3G | 99.7 | 134.6 | 105.5 | 98.4 | 94.8 | 102.2 | 115.5 | 135.2 |
| HIST1H3H | 104.4 | 94.2 | 100.8 | 109.2 | 95.1 | 111.9 | 105.4 | 106.1 |
| HIST1H3I | 101.4 | 107.9 | 114.6 | 117.9 | 99.1 | 110.6 | 108.6 | 105.9 |
| HIST1H3J | 113.1 | 133.9 | 103.1 | 120.6 | 121.1 | 134.3 | 124 | 118.1 |
| HIST1H4A | 94.7 | 125.4 | 96.6 | 92.3 | 80.1 | 92 | 102.4 | 127.1 |
| HIST1H4B | 90.9 | 101.3 | 115.7 | 127 | 119 | 103.7 | 99.8 | 101.2 |
| HIST1H4C | 23877.8 | 23647.7 | 17831.1 | 14033.3 | 13444.7 | 6926.8 | 19749.8 | 19253 |
| HIST1H4D | 72 | 85.2 | 95.2 | 72.2 | 77.1 | 89.8 | 73 | 80 |
| HIST1H4E | 86.5 | 102.6 | 96 | 106.5 | 94.9 | 103.3 | 107.2 | 107.9 |
| HIST1H4F | 79.4 | 98.5 | 92.8 | 99.7 | 91.7 | 104.1 | 87 | 85.8 |
| HIST1H4G | 84.8 | 88.5 | 96.8 | 86.7 | 79.6 | 89.5 | 84.6 | 88.6 |
| HIST1H4H | 110.1 | 122.2 | 90.6 | 91.9 | 95.7 | 77.2 | 109.9 | 114.7 |
| HIST1H4I | 90.8 | 96.7 | 98.6 | 90.2 | 85.8 | 94.7 | 94.4 | 103.1 |
| HIST1H4J | 100.6 | 106.7 | 94.5 | 79.6 | 88.1 | 96.9 | 102.4 | 111.8 |
| HIST1H4L | 81.8 | 92.8 | 89.6 | 83.9 | 79.4 | 82.1 | 89 | 91 |
| HIST2H2AA | 390.3 | 521.2 | 272.9 | 368.3 | 261.2 | 316.1 | 393.3 | 518.9 |
| HIST2H2AB | 134.4 | 148.7 | 106.4 | 111 | 94 | 109.9 | 133 | 136.8 |
| HIST2H2AC | 1100.4 | 1297.1 | 973.2 | 898.7 | 717.8 | 843.5 | 1126 | 1269.4 |
| HIST2H2BE | 132.8 | 145.2 | 98 | 101.7 | 93.1 | 104.7 | 128.2 | 166.5 |
| HIST2H2BF | 189.2 | 270.5 | 140.5 | 142.4 | 132.9 | 112.8 | 157 | 171.3 |
| HIST2H3C | 122.9 | 135.3 | 99.8 | 126.1 | 119.5 | 109.2 | 114.3 | 124.7 |
| HIST2H4A | 140.4 | 167.7 | 118.4 | 124.9 | 117 | 112.1 | 153.7 | 163.9 |
| HIST3H2A | 218.4 | 301.6 | 159.2 | 116.5 | 119 | 143.6 | 198.4 | 243.8 |
| HIST3H2BB | 96.3 | 101.1 | 101.8 | 99.8 | 88.4 | 96.7 | 98.1 | 97.9 |
| HIST3H3 | 98.1 | 122.4 | 98.2 | 92.2 | 86.5 | 85.6 | 93.7 | 106.2 |
| HIST4H4 | 90.4 | 91.1 | 91 | 87.2 | 86.1 | 89.1 | 76.9 | 85.8 |
| HIVEP1 | 104.1 | 124.2 | 102.1 | 99.7 | 97.2 | 111.6 | 112.5 | 120.5 |
| HIVEP2 | 247.4 | 293.1 | 175.5 | 144.6 | 136.8 | 157.6 | 262.6 | 288 |
| HIVEP3 | 104.1 | 119.1 | 111.2 | 106.5 | 99.4 | 109.2 | 97.9 | 121.4 |
| HK1 | 1486 | 1829.2 | 1872.3 | 2137.3 | 1463.1 | 2298.2 | 1138 | 1801.7 |
| HK1 | 102.6 | 124.5 | 97.4 | 110.8 | 90.2 | 86.5 | 100.4 | 104.7 |
| HK1 | 86.6 | 104.1 | 89.6 | 88.8 | 79.4 | 78.5 | 95.4 | 96.5 |
| HK1 | 77.6 | 88 | 94.7 | 96 | 84.6 | 87 | 87.6 | 78.8 |
| HK2 | 380.4 | 489.4 | 153.1 | 182.1 | 158.4 | 251.9 | 311.8 | 504.2 |
| HK3 | 159.9 | 186.9 | 228.2 | 201.4 | 184.7 | 332.9 | 130.4 | 197.3 |
| HKDC1 | 116.3 | 136.1 | 81.3 | 77.3 | 78.2 | 80.9 | 109.7 | 121.4 |
| HKR1 | 134.8 | 201.2 | 114.7 | 106.4 | 110 | 127.9 | 141.2 | 132.9 |
| HKR2 | 107.3 | 119.1 | 112 | 99 | 91.4 | 106.3 | 94.5 | 125.8 |
| HKR3 | 702.5 | 768.6 | 590 | 478.3 | 493.1 | 586.7 | 602.8 | 837.4 |

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|----------|---------|---------|--------|--------|--------|--------|--------|---------|
| HLA-A | 10010.9 | 13684.9 | 9065.6 | 7121.3 | 5332.4 | 9270.9 | 8049.4 | 13220.6 |
| HLA-C | 69.9 | 70.8 | 87.5 | 77.5 | 74 | 75.7 | 71.2 | 74.7 |
| HLA-DMA | 579.9 | 708.7 | 390.9 | 505.1 | 502.4 | 441.7 | 535.4 | 492.8 |
| HLA-DMB | 150.3 | 145.9 | 124.3 | 199.3 | 169.1 | 222.7 | 119.4 | 137.4 |
| HLA-DOA | 81.5 | 88.1 | 81 | 78.7 | 86.1 | 78.1 | 76.2 | 92.6 |
| HLA-DOB | 102.2 | 115 | 108.6 | 100.1 | 90.1 | 94.4 | 96.5 | 110.7 |
| HLA-DPA1 | 179.2 | 210.7 | 138 | 147.4 | 127.6 | 150.2 | 160.8 | 179 |
| HLA-DPB1 | 76.1 | 86.9 | 85.2 | 82.6 | 78.2 | 86.1 | 81.4 | 83.4 |
| HLA-DPB2 | 80.9 | 91.5 | 92.4 | 77.6 | 84 | 87.8 | 83.2 | 82.3 |
| HLA-DQA1 | 81 | 84.2 | 89.2 | 92.9 | 83.2 | 90.6 | 79.2 | 83.4 |
| HLA-DQA2 | 109.4 | 118.1 | 93.5 | 84.6 | 95.5 | 92.1 | 101 | 123.8 |
| HLA-DQB1 | 92.3 | 98.8 | 102.4 | 90.6 | 80.6 | 97.1 | 93.8 | 97.3 |
| HLA-DQB2 | 86 | 93.8 | 108.3 | 103.2 | 95.2 | 85.7 | 100 | 88.7 |
| HLA-DRA | 655.8 | 841.3 | 421.4 | 362.5 | 344.8 | 458.4 | 561.3 | 1112.6 |
| HLA-DRB1 | 1887.5 | 2580 | 579.7 | 813 | 623.6 | 746 | 1699.1 | 2150.9 |
| HLA-DRB3 | 454.6 | 565.2 | 220.2 | 206.8 | 186.6 | 292.5 | 402.4 | 522.1 |
| HLA-DRB4 | 85.4 | 100.4 | 105.9 | 98 | 94.8 | 82.8 | 91.9 | 104 |
| HLA-DRB5 | 1012.4 | 1333.2 | 663.2 | 395 | 320.9 | 449.2 | 837.4 | 1165.2 |
| HLA-DRB6 | 571.3 | 839.3 | 241.4 | 233.9 | 192.9 | 224.2 | 635.8 | 698.5 |
| HLA-E | 366.4 | 473.4 | 177.1 | 137.4 | 129.9 | 187.3 | 335.5 | 450.5 |
| HLA-F | 781 | 1060.1 | 401.8 | 394.1 | 347.7 | 466.5 | 604.4 | 803.8 |
| HLA-G | 186.4 | 225.5 | 130.9 | 109 | 106.4 | 115.7 | 185.5 | 263.4 |
| HLA-H | 2670.2 | 3737.7 | 1637.9 | 1288.6 | 1144.3 | 1786.3 | 2225.3 | 2687.6 |
| HLCS | 92.6 | 107 | 81.7 | 90.1 | 82.9 | 86.2 | 84.5 | 108 |
| HLF | 108.1 | 113 | 100.3 | 92 | 89.2 | 90 | 95.9 | 107.7 |
| HLRC1 | 190.4 | 234.4 | 103.5 | 92.6 | 86.7 | 94.1 | 179.9 | 315 |
| HLX1 | 523.2 | 744.9 | 474.8 | 371.9 | 345.7 | 478 | 420.3 | 750.1 |
| HLXB9 | 107.3 | 117.2 | 100.2 | 108.4 | 105.4 | 107.9 | 115.8 | 139.9 |
| HM13 | 78.4 | 100 | 91.4 | 92.4 | 90.1 | 87.3 | 85.2 | 86.1 |
| HM13 | 876.6 | 1142.2 | 574.9 | 408.6 | 348.2 | 336.2 | 799.2 | 1029.4 |
| HM13 | 130.6 | 137.7 | 110.9 | 118 | 113.4 | 106.2 | 115.9 | 134.6 |
| HMBOX1 | 278.3 | 383.5 | 143.3 | 161.5 | 140.6 | 188.1 | 309.4 | 488.1 |
| HMBS | 117.9 | 135.5 | 89 | 93.5 | 93.8 | 90.4 | 115.5 | 151 |
| HMBS | 1783.1 | 2649 | 811.8 | 488.4 | 412.3 | 531.7 | 1324.2 | 1511.8 |
| HMBS | 2485.1 | 3534.3 | 1489.1 | 962.2 | 731.8 | 1140.5 | 1951.9 | 1641.4 |
| HMCN1 | 80.2 | 80.7 | 85.3 | 88.1 | 89.9 | 93.9 | 83.2 | 85 |
| HMFN0839 | 215 | 294.3 | 157.8 | 297.6 | 156.3 | 264.3 | 509.1 | 1082.7 |
| HMG1L1 | 1108.6 | 1483.9 | 271.6 | 233.6 | 185.4 | 317.9 | 996.6 | 1660.5 |
| HMG20A | 194.7 | 298 | 180.2 | 201.2 | 162.9 | 307.2 | 174.9 | 233.8 |
| HMG20B | 2223.2 | 2588.2 | 1466.6 | 1287.1 | 1390.2 | 1604.4 | 1902.1 | 1948.2 |
| HMG2L1 | 201.6 | 274.4 | 135.5 | 103.4 | 114 | 145.8 | 165.8 | 204.5 |
| HMG2L1 | 125.4 | 134.3 | 94.9 | 95.9 | 90.7 | 105.5 | 127.4 | 164 |
| HMG4L | 92.4 | 95.9 | 88.4 | 92.6 | 84.4 | 79.9 | 89.8 | 93.9 |
| HMGA1 | 131.5 | 167.7 | 99.6 | 100 | 87.9 | 90.5 | 127.2 | 160.8 |
| HMGA1 | 80.7 | 95.7 | 96.8 | 86.5 | 87.7 | 92.4 | 84.6 | 92.7 |
| HMGA1 | 108.1 | 129.8 | 97.5 | 85 | 94.5 | 82.9 | 106.7 | 114.7 |
| HMGA1 | 2388 | 3564.7 | 3826.3 | 3296 | 2595.5 | 4527.3 | 2082.5 | 5094.7 |
| HMGA2 | 106.1 | 126 | 85.8 | 85.9 | 79.9 | 88.9 | 107.9 | 131.6 |
| HMGA2 | 119.9 | 125.2 | 105.2 | 97.3 | 84.4 | 92.4 | 106.3 | 112.8 |
| HMGB1 | 478.8 | 515.8 | 179 | 217 | 173 | 209.4 | 400.5 | 814.8 |

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|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| HMGB2 | 6584.9 | 6214.5 | 2560.5 | 1938.3 | 1923.9 | 3172.8 | 4879.7 | 8225.2 |
| HMGB3 | 659.8 | 965.2 | 462.1 | 425.7 | 316.5 | 508.1 | 627.4 | 820.5 |
| HMGB4 | 94.5 | 107.3 | 102.5 | 104.5 | 97.4 | 93.2 | 88.9 | 98 |
| HMGB4 | 90.5 | 102.6 | 96.1 | 87.6 | 85.8 | 84.7 | 87.3 | 83.5 |
| HMGCL | 225.7 | 298.6 | 183.3 | 208.2 | 192 | 216.1 | 227.1 | 270.5 |
| HMGCLL1 | 83.2 | 88.7 | 95.6 | 93.4 | 88.8 | 93.2 | 71.1 | 88 |
| HMGCLL1 | 99.7 | 114.9 | 93.3 | 88.7 | 78 | 98.5 | 102.9 | 109.4 |
| HMGCLL1 | 92.3 | 110.2 | 91.9 | 91.1 | 87.6 | 88 | 84.5 | 85.9 |
| HMGCR | 1329.3 | 2087.4 | 1082.8 | 1935.8 | 1662.1 | 2269.7 | 1162 | 1545.7 |
| HMGCS1 | 1313.4 | 1725.4 | 754.4 | 1980.5 | 1729.6 | 2133.3 | 1265.7 | 1913.9 |
| HMGCS2 | 104.9 | 130.5 | 105.2 | 87.3 | 76.1 | 84.4 | 105.9 | 135.3 |
| HMGN1 | 22238.1 | 27720.2 | 18888.1 | 22561.6 | 19496.6 | 26935 | 19703.6 | 25793.6 |
| HMGN2 | 10364.9 | 13797.1 | 3482.2 | 1828.9 | 1237.1 | 2010.5 | 10171.3 | 11088.5 |
| HMGN3 | 142.7 | 174.8 | 85.4 | 104.4 | 93.8 | 96.4 | 162.4 | 199.3 |
| HMGN4 | 1179.7 | 1524.1 | 563.4 | 565.3 | 426.6 | 710.4 | 1133.4 | 1525.5 |
| HMHA1 | 352.8 | 370.8 | 250.9 | 184.3 | 201 | 210.1 | 293.7 | 221.9 |
| HMMR | 2005.6 | 2204.9 | 755.4 | 547.8 | 465.5 | 899.6 | 1674.1 | 2487.1 |
| HMMR | 2584.9 | 2895.6 | 1302.9 | 940.5 | 946.5 | 2044.2 | 1810.4 | 2538.6 |
| HMOX1 | 108.6 | 119.4 | 126.3 | 99 | 90.4 | 85.6 | 4005.1 | 17776.5 |
| HMOX2 | 116.7 | 138.8 | 90.5 | 84.6 | 78.2 | 97.6 | 109.2 | 154.5 |
| HMP19 | 108.7 | 138.3 | 99.2 | 80 | 79.1 | 90.4 | 106.3 | 137.7 |
| HMX1 | 83.1 | 93.6 | 105.6 | 86.9 | 93.2 | 96.3 | 87.8 | 87.7 |
| HMX2 | 164.6 | 207.5 | 228.4 | 108.4 | 111.9 | 117 | 154.1 | 272.4 |
| HN1 | 681.4 | 941.3 | 256.2 | 159.3 | 108.3 | 178.3 | 543.5 | 808.1 |
| HNF4A | 108.2 | 128.7 | 98.2 | 98 | 80 | 90.9 | 117.3 | 121.8 |
| HNF4A | 88.3 | 110.2 | 103.3 | 92.2 | 92 | 85.6 | 95.5 | 97.7 |
| HNF4G | 261.7 | 346.1 | 241 | 168.4 | 139.3 | 267.4 | 208.5 | 287.3 |
| HNMT | 2690.8 | 3518.4 | 863.6 | 818.3 | 505.6 | 986.8 | 2053.9 | 2957.9 |
| HNMT | 526.2 | 655.7 | 419.5 | 321.5 | 257.4 | 355.4 | 581.4 | 764.8 |
| HNMT | 511.5 | 615.5 | 276.3 | 286.3 | 200.2 | 379.4 | 322.4 | 464.9 |
| HNMT | 103.1 | 132 | 103.7 | 112.1 | 100.5 | 116.4 | 95 | 108.7 |
| HNRNPG-T | 76.8 | 89 | 84.7 | 85.2 | 74.6 | 85.2 | 83.6 | 94.1 |
| HNRPA0 | 1901.6 | 2532.9 | 1135.4 | 1074.6 | 660.9 | 1418.9 | 1222.9 | 2142.7 |
| HNRPA1 | 737 | 1194.4 | 358 | 274.4 | 210.8 | 268.2 | 484.7 | 534.6 |
| HNRPA1 | 440.2 | 522 | 181.5 | 139.1 | 128.2 | 153.1 | 369.8 | 365.8 |
| HNRPA1L-2 | 3068.7 | 4701.8 | 666.2 | 482 | 461 | 706.4 | 2728 | 3000.7 |
| HNRPA2B1 | 18268.1 | 20637.9 | 10452.2 | 9257.5 | 7070 | 11786.3 | 17253.2 | 22817.5 |
| HNRPA3 | 1764.2 | 3015.8 | 555.1 | 962.6 | 802.8 | 618.2 | 1594.1 | 1541.2 |
| HNRPA3P1 | 262.2 | 351.1 | 112.2 | 159.4 | 125.5 | 125.4 | 260.2 | 312.1 |
| HNRPAB | 2015.4 | 2696 | 1422.2 | 989.6 | 806.6 | 1375.2 | 1489.5 | 1817.3 |
| HNRPAB | 5277.6 | 7233.2 | 2829.7 | 2215.6 | 1503.3 | 2563.9 | 4346.3 | 6171.2 |
| HNRPAB | 14130 | 18255.7 | 13586 | 9281.8 | 7474.8 | 10403.1 | 12462 | 17974.1 |
| HNRPC | 953.2 | 1281.8 | 283.3 | 252.2 | 209.9 | 395 | 768.8 | 1060.7 |
| HNRPC | 1173.2 | 1565.7 | 789.3 | 642.7 | 503.1 | 765 | 900.8 | 1102 |
| HNRPCL1 | 109.7 | 123.8 | 96.2 | 88.5 | 81.1 | 87.2 | 105.7 | 117.7 |
| HNRPD | 19824.4 | 25063.8 | 9978.7 | 8956.8 | 6429.9 | 9660.6 | 19233.2 | 22441.3 |
| HNRPDL | 891.7 | 1158.6 | 333 | 382.1 | 256.3 | 420.3 | 656.3 | 956.4 |
| HNRPDL | 1582.8 | 1615.2 | 957.5 | 642.9 | 768.3 | 920.5 | 740.6 | 774.7 |
| HNRPF | 295.7 | 344.7 | 177.3 | 172.4 | 137.1 | 204.4 | 263 | 361.8 |
| HNRPH1 | 95.9 | 114.5 | 83.4 | 92.1 | 95.9 | 99.5 | 80.6 | 99.3 |

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|-----------|--------|---------|--------|--------|--------|--------|--------|---------|
| HNRPH2 | 638 | 1027.4 | 238.6 | 272.4 | 190.6 | 296.2 | 550.6 | 692.3 |
| HNRPH3 | 949.7 | 990.5 | 313 | 285.7 | 212.5 | 426.9 | 736.9 | 1214.4 |
| HNRPH3 | 86.4 | 92 | 92.9 | 85.6 | 80.8 | 90.7 | 85.6 | 94.3 |
| HNRPK | 6096.7 | 7699.1 | 4835.8 | 4005.1 | 3058.6 | 6511.2 | 4494.1 | 8175.8 |
| HNRPL | 1593.5 | 2294.4 | 1812 | 1302.4 | 1312 | 1344.7 | 1441.8 | 3670.1 |
| HNRPLL | 355.6 | 392.2 | 132.7 | 139.6 | 126.1 | 192.9 | 316.8 | 547.8 |
| HNRPM | 308.5 | 466.1 | 132.1 | 116.5 | 116.4 | 103.8 | 248.5 | 342.7 |
| HNRPM | 9850.6 | 12718.6 | 6407.4 | 5699.2 | 4444.8 | 6839.1 | 8281.4 | 10906.6 |
| HNRPR | 3148 | 4987 | 2572.3 | 2671.4 | 2279.7 | 3195.2 | 3269.2 | 3430.4 |
| HNRPU | 620.1 | 684.2 | 422.8 | 713.7 | 563.1 | 506 | 639.9 | 925.9 |
| HNRPU | 687.8 | 969.5 | 595.4 | 906.8 | 756.9 | 946.6 | 523.8 | 728.1 |
| HNRPUL1 | 2460.6 | 2984.5 | 2009.2 | 1697.5 | 993.9 | 1940.6 | 2286.2 | 5325.6 |
| HNRPUL1 | 5201.1 | 5915.1 | 5309.7 | 3034.8 | 2710.1 | 2774.9 | 5101.6 | 5595.7 |
| HNRPUL2 | 905.8 | 1018.2 | 374.9 | 396.6 | 366.9 | 356 | 740.8 | 932.3 |
| HNT | 68.9 | 78.5 | 99.1 | 90.7 | 91.3 | 85.3 | 75.5 | 75.1 |
| HNT | 102.7 | 103.2 | 101.9 | 98.4 | 90.1 | 95.3 | 98.5 | 103.4 |
| HNT | 109.8 | 120.5 | 96.2 | 87.4 | 78.3 | 79.3 | 110.4 | 122.1 |
| HOMER1 | 134 | 151.1 | 127.2 | 108.1 | 85.6 | 126.8 | 110.2 | 173.1 |
| HOMER2 | 104.4 | 117.4 | 113.7 | 118.9 | 113.3 | 129.5 | 101.5 | 116.8 |
| HOMER2 | 168.5 | 197.6 | 137.7 | 168.2 | 136.4 | 192.8 | 151.1 | 190.2 |
| HOMER3 | 525.1 | 726.6 | 457.4 | 315.9 | 240.2 | 307.8 | 459.8 | 634.8 |
| HOM-TES-1 | 100.4 | 105.9 | 96.4 | 96.4 | 84 | 86.2 | 88.7 | 122.6 |
| HOM-TES-1 | 137.4 | 151.1 | 108.9 | 104.9 | 100.9 | 113 | 133.2 | 148.8 |
| HOM-TES-1 | 937.3 | 1007.5 | 494.2 | 411.4 | 444.1 | 502.1 | 635.4 | 716.3 |
| HOOK1 | 94.7 | 116.5 | 102.3 | 89.4 | 91.6 | 90.2 | 102.9 | 100.3 |
| HOOK2 | 265.2 | 268.1 | 209.2 | 152.8 | 155.3 | 208.3 | 204.5 | 308.2 |
| HOOK3 | 203.5 | 333.7 | 124.4 | 116.2 | 115.7 | 114.5 | 183.3 | 227.3 |
| HOP | 123.2 | 122.3 | 105.7 | 90.1 | 84.7 | 89.6 | 119.8 | 118.3 |
| HOP | 112.2 | 136.3 | 80.8 | 88.8 | 89.4 | 77 | 108.9 | 128.6 |
| HOP | 69.8 | 77.5 | 81.7 | 81.8 | 81 | 88 | 80.7 | 86.6 |
| HORMAD1 | 89.9 | 89.3 | 99.6 | 82.4 | 88.4 | 83 | 90 | 91.8 |
| HORMAD2 | 79.4 | 99.2 | 89.3 | 87.7 | 100.2 | 87.8 | 85.1 | 86.4 |
| HOXA1 | 79.5 | 92.2 | 103.7 | 89.7 | 88.2 | 93.2 | 83.2 | 85.4 |
| HOXA1 | 107 | 111.1 | 108.6 | 96.7 | 100.3 | 96.5 | 96.2 | 105 |
| HOXA10 | 935.6 | 1161.8 | 425.6 | 463.4 | 356.1 | 433 | 954.8 | 1800.1 |
| HOXA10 | 180.2 | 197.2 | 137.6 | 95.1 | 92.6 | 93.4 | 174.2 | 183.5 |
| HOXA10 | 250.4 | 285.3 | 122.6 | 107.3 | 105.6 | 92.1 | 240.6 | 331.7 |
| HOXA11 | 163.2 | 217.6 | 139 | 148.1 | 138.3 | 151.8 | 141.4 | 212.1 |
| HOXA13 | 558.5 | 673.7 | 373.6 | 439.4 | 373.5 | 387.8 | 420.6 | 906.3 |
| HOXA2 | 97.5 | 104.4 | 89.7 | 87.2 | 80.8 | 82.1 | 101.3 | 105.8 |
| HOXA3 | 112.5 | 125.1 | 90.7 | 89.8 | 83.4 | 92.8 | 125 | 116.7 |
| HOXA3 | 91.9 | 99.4 | 100.7 | 93.3 | 91.2 | 95.5 | 95.9 | 104.1 |
| HOXA3 | 81.5 | 94 | 91.7 | 79.6 | 90.8 | 93.9 | 77.9 | 85.6 |
| HOXA3 | 75 | 87.1 | 84.5 | 83.8 | 81.6 | 85.9 | 78.2 | 92.6 |
| HOXA4 | 92.5 | 105.8 | 107.5 | 103.6 | 106.8 | 114 | 99 | 139.7 |
| HOXA5 | 537.5 | 760.1 | 402.4 | 284.2 | 276.7 | 355.5 | 575.1 | 617.1 |
| HOXA6 | 132.9 | 142.7 | 112.3 | 101.6 | 102.8 | 101 | 124.3 | 156.9 |
| HOXA7 | 105.4 | 113.4 | 98.3 | 96.2 | 87.9 | 86.8 | 112.3 | 113.1 |
| HOXA9 | 2572.4 | 2967.3 | 1145.7 | 1228.9 | 939.1 | 1516.1 | 2837.3 | 3946.1 |
| HOXA9 | 161.9 | 178.1 | 130.8 | 100.5 | 102.6 | 123.6 | 130.9 | 161.2 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| HOXB1 | 275.5 | 342.8 | 163.2 | 155.6 | 137.3 | 195.1 | 225 | 264.8 |
| HOXB13 | 76.2 | 92.5 | 93.6 | 99.2 | 77.4 | 80.3 | 76.2 | 86.5 |
| HOXB2 | 86.7 | 84.1 | 88.1 | 87.4 | 84.4 | 82.1 | 82.4 | 85.2 |
| HOXB3 | 88.7 | 88.1 | 106.4 | 86.7 | 95.2 | 90.8 | 83 | 86.1 |
| HOXB4 | 112.4 | 124.2 | 114.9 | 104 | 90.6 | 104.5 | 101.3 | 103.9 |
| HOXB5 | 124.1 | 150.5 | 103.8 | 78.3 | 87.9 | 86.7 | 116.2 | 138 |
| HOXB6 | 136.9 | 160.9 | 142.2 | 133.7 | 133.1 | 129.6 | 113 | 137 |
| HOXB6 | 195.2 | 217.6 | 141.2 | 113.6 | 118.1 | 96.2 | 188.1 | 247 |
| HOXB7 | 195 | 283.3 | 222.3 | 109.8 | 104.7 | 118.3 | 210.7 | 248.8 |
| HOXB8 | 99.4 | 94.2 | 78.2 | 88.5 | 79.7 | 79.3 | 85.8 | 103.5 |
| HOXB9 | 105.3 | 118.3 | 92.9 | 79.8 | 77.3 | 85.3 | 96.5 | 112.1 |
| HOXC10 | 102.7 | 103.2 | 93.9 | 98.1 | 86.9 | 94.3 | 88.2 | 100.1 |
| HOXC11 | 230.4 | 242.3 | 97.8 | 118.3 | 114.8 | 136.8 | 208 | 251 |
| HOXC12 | 88.8 | 98.5 | 90.3 | 79.4 | 76.7 | 84.1 | 87 | 98.9 |
| HOXC13 | 101 | 118.6 | 86.5 | 90.5 | 80.5 | 85.1 | 94.6 | 117.1 |
| HOXC4 | 87.4 | 92.4 | 113.1 | 95.3 | 91.1 | 95.5 | 85.8 | 88.9 |
| HOXC4 | 85 | 109.7 | 79.5 | 84.7 | 88.9 | 95.7 | 96 | 94.6 |
| HOXC5 | 94.3 | 96.7 | 99.5 | 86.1 | 94.3 | 84.9 | 93.8 | 97.7 |
| HOXC6 | 86.2 | 99 | 90.9 | 99.8 | 96.3 | 101.9 | 83.9 | 89.9 |
| HOXC6 | 98.2 | 110.2 | 104.7 | 101.6 | 94.9 | 89.6 | 90.3 | 99.9 |
| HOXC6 | 157.6 | 199.7 | 125.5 | 108.6 | 109.1 | 104.2 | 141.3 | 196.1 |
| HOXC8 | 112.7 | 116.7 | 96.1 | 101.6 | 95.8 | 90.5 | 101.9 | 111.4 |
| HOXC9 | 95.2 | 117.9 | 92.8 | 81.2 | 85.8 | 82.8 | 89.8 | 112 |
| HOXD1 | 79.2 | 85.5 | 102.9 | 87.2 | 86.8 | 87.6 | 88.2 | 87 |
| HOXD10 | 87 | 98.7 | 89.6 | 86.1 | 76.6 | 84.9 | 93.7 | 96.9 |
| HOXD11 | 124.9 | 152.1 | 96.3 | 79 | 75.6 | 91.4 | 98.8 | 137.4 |
| HOXD12 | 175.4 | 242.1 | 140.5 | 116.6 | 103.4 | 117.8 | 181.6 | 202.4 |
| HOXD13 | 289.8 | 324.6 | 151 | 136.1 | 125.5 | 141.6 | 275.6 | 292 |
| HOXD3 | 117.4 | 147.5 | 124.8 | 113.6 | 103.6 | 121.7 | 122.9 | 129.6 |
| HOXD4 | 124 | 139.9 | 100.1 | 93.5 | 86.2 | 98.4 | 127.3 | 130 |
| HOXD8 | 119.3 | 119 | 103.5 | 96.6 | 92.9 | 91.4 | 119 | 116.8 |
| HOXD9 | 85.2 | 93.3 | 89.8 | 87.4 | 85 | 90.1 | 78.7 | 81.3 |
| HP | 125.3 | 148.9 | 108 | 150.2 | 114.5 | 189.1 | 116.8 | 120.8 |
| HP1BP3 | 304.4 | 400.3 | 168.1 | 151.6 | 136.9 | 139.9 | 232.6 | 283.3 |
| HPCA | 84.2 | 95.4 | 98.7 | 89.4 | 96.5 | 89 | 79.7 | 88.9 |
| HPCAL1 | 105.9 | 121.7 | 106.4 | 86.4 | 90.6 | 87.5 | 119.9 | 149 |
| HPCAL1 | 3243.9 | 4600.6 | 2113.2 | 1730.3 | 1648.6 | 2226.7 | 5324.2 | 5378.6 |
| HPCAL1 | 156.6 | 185.1 | 91.8 | 89.6 | 83.6 | 80.7 | 142.8 | 212.1 |
| HPCAL4 | 112.1 | 124.6 | 91.4 | 78.3 | 82.4 | 81.2 | 94.8 | 129.7 |
| HPD | 119.8 | 148.2 | 91.2 | 88.3 | 84.5 | 85.2 | 127.3 | 122.3 |
| HPGD | 117.3 | 123.8 | 87.1 | 90.1 | 93.8 | 88.8 | 116.4 | 120.8 |
| H-PLK | 88 | 97.3 | 90.8 | 92.5 | 87.5 | 92.8 | 81.7 | 90.8 |
| HPN | 79.9 | 96.2 | 97.8 | 89 | 92.3 | 89.7 | 89.3 | 86.7 |
| HPN | 104.7 | 114.7 | 102 | 89 | 89.2 | 97.7 | 102.4 | 112.4 |
| HPN | 84.2 | 91.7 | 92.5 | 90.6 | 88.9 | 78.4 | 74.3 | 78.8 |
| HPR | 125.7 | 151.3 | 97.7 | 97.9 | 86.1 | 89.5 | 129.3 | 132.1 |
| HPRT1 | 5340.1 | 6129.5 | 3468.3 | 3434.5 | 2526.9 | 3651.8 | 5041.1 | 8023.6 |
| HPS1 | 153.9 | 194.6 | 183.2 | 184.3 | 154.8 | 160.5 | 158.1 | 198.9 |
| HPS1 | 328.7 | 370.1 | 308.1 | 216.5 | 183.9 | 253.7 | 334.6 | 409.1 |
| HPS1 | 129.9 | 166.8 | 127.4 | 123.4 | 113.1 | 124.2 | 133.5 | 138.8 |

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|-----------|--------|--------|-------|-------|-------|--------|--------|--------|
| HPS3 | 359.4 | 539.9 | 247.3 | 181.9 | 147.9 | 279.8 | 280.9 | 369.9 |
| HPS4 | 95.1 | 121.3 | 93 | 84.2 | 77.3 | 85.1 | 97.2 | 118.4 |
| HPS4 | 123.8 | 131.2 | 115 | 122.1 | 117.2 | 135.6 | 112.5 | 116.9 |
| HPS4 | 209.2 | 218.4 | 186.7 | 215.9 | 182.4 | 214.2 | 159.5 | 160.6 |
| HPS4 | 111.8 | 135.2 | 101.3 | 87.4 | 100.7 | 81.4 | 104.5 | 127.3 |
| HPS5 | 567.5 | 641.8 | 474.1 | 460.9 | 371.1 | 559.5 | 439.7 | 775.6 |
| HPS5 | 87 | 97.7 | 98.1 | 91.8 | 90.2 | 87.3 | 87 | 91.9 |
| HPS6 | 1963.9 | 2346.7 | 1530 | 952.3 | 811.2 | 855.4 | 1732.9 | 1705.3 |
| HPSE | 293.2 | 392.8 | 155.9 | 153.9 | 126.5 | 173.5 | 259.9 | 413.2 |
| HPSE2 | 81.8 | 83.6 | 87 | 86.1 | 85.6 | 82.8 | 82.4 | 86.4 |
| HPX | 112 | 126.4 | 93.3 | 79.4 | 80.9 | 92.4 | 113.6 | 123.9 |
| HR | 65.6 | 78.3 | 82.5 | 79.3 | 75.9 | 66.7 | 71.5 | 66.5 |
| HR | 85.3 | 104.7 | 85.6 | 79.3 | 74.7 | 79.3 | 104.6 | 106.7 |
| HRAS | 669.1 | 755.3 | 370.1 | 248.3 | 221.7 | 228.6 | 648.2 | 1049.3 |
| HRAS | 105.7 | 121.1 | 93.1 | 94.7 | 82.5 | 94.5 | 108.4 | 120.8 |
| HRASLS | 84.3 | 106.6 | 96.6 | 91 | 87.7 | 93.2 | 87.4 | 88.4 |
| HRASLS2 | 116.4 | 130.3 | 97.7 | 83.9 | 86 | 93.8 | 111.4 | 135.9 |
| HRASLS3 | 73.5 | 82.3 | 99.2 | 97.8 | 84.3 | 103.6 | 82.6 | 83.9 |
| HRASLS5 | 74.9 | 80.6 | 102.9 | 91.3 | 96.9 | 85.3 | 76.9 | 85.1 |
| HRB | 89.9 | 109.4 | 97 | 86.5 | 94.5 | 99.5 | 91.8 | 93.4 |
| HRB2 | 217.5 | 262.3 | 175.2 | 170.4 | 151.4 | 209.9 | 165 | 245.7 |
| HRBL | 146.7 | 176.4 | 113.5 | 108.9 | 102.4 | 108.9 | 151.3 | 167.3 |
| HRC | 106.2 | 119.9 | 124.5 | 113.6 | 113.4 | 116.4 | 108.1 | 135.6 |
| HRG | 77.7 | 96.2 | 92.2 | 82.3 | 89.6 | 79.9 | 96.5 | 77 |
| HRH1 | 120.4 | 159.8 | 100.2 | 99 | 80.3 | 93.5 | 105.9 | 145.2 |
| HRH2 | 102.7 | 112.7 | 87.3 | 94.5 | 91.6 | 81.6 | 106.9 | 109.6 |
| HRH3 | 97.1 | 132.5 | 98.8 | 95.9 | 84.5 | 82 | 91.3 | 108.7 |
| HRH4 | 101.8 | 118.2 | 90.9 | 88.5 | 79.4 | 90.1 | 101.6 | 116.9 |
| HRIHFB212 | 232.8 | 262.7 | 177.5 | 166.2 | 161 | 174.5 | 175.6 | 179.7 |
| HRIHFB212 | 125.1 | 149.7 | 116.1 | 117.9 | 131.6 | 136.8 | 125.9 | 128.8 |
| HRIHFB212 | 767.2 | 861.1 | 660.4 | 535.7 | 460.1 | 533 | 688.9 | 951.8 |
| HRK | 71.1 | 79.3 | 80.3 | 77.4 | 75.2 | 76.4 | 80.4 | 79 |
| HRNR | 98 | 104.5 | 84.8 | 94.3 | 79.1 | 86.5 | 101.5 | 110.3 |
| HRSP12 | 291.9 | 351.5 | 180.1 | 152.7 | 132.3 | 137.5 | 277.4 | 483.1 |
| HS1BP3 | 206.3 | 295.8 | 215.5 | 168.2 | 147.6 | 208.2 | 215.1 | 351.9 |
| HS2ST1 | 173.1 | 175.2 | 108 | 108.4 | 98.8 | 131 | 138.4 | 214.8 |
| HS3ST1 | 108.9 | 113.7 | 96.3 | 88.3 | 88.4 | 94.9 | 98.7 | 99.9 |
| HS3ST2 | 93.8 | 100.7 | 98.7 | 98.1 | 89.1 | 99.1 | 86.2 | 94.1 |
| HS3ST3A1 | 222.9 | 248.4 | 161.8 | 126.9 | 110.6 | 129.5 | 178.4 | 259.6 |
| HS3ST3B1 | 102.1 | 118.3 | 95.9 | 93 | 90.3 | 93.9 | 115.6 | 113.2 |
| HS3ST4 | 110.6 | 138.3 | 89.3 | 98.4 | 92.3 | 80.6 | 120.3 | 114.9 |
| HS3ST5 | 95.8 | 103.3 | 85.5 | 84.3 | 78.3 | 80.8 | 92.8 | 114.2 |
| HS3ST6 | 85.5 | 89.3 | 96.5 | 85.2 | 82.2 | 87.8 | 88.3 | 103.3 |
| HS6ST1 | 127.9 | 142.5 | 112.4 | 106.7 | 110 | 101.9 | 116.4 | 126.3 |
| HS6ST2 | 77.3 | 87 | 92.1 | 91.4 | 86 | 92.4 | 76 | 87.8 |
| HS6ST2 | 109 | 121.8 | 90.2 | 84.4 | 78.1 | 85.8 | 103.4 | 121.8 |
| HS6ST2 | 98.7 | 108.7 | 92.9 | 84.1 | 81.2 | 82.2 | 104 | 116.3 |
| HS6ST3 | 84.7 | 109 | 93.8 | 92.6 | 95.3 | 91.3 | 93.5 | 94.3 |
| HS747E2A | 74.3 | 83.8 | 83.4 | 80.4 | 73.6 | 72.2 | 88.6 | 87.6 |
| HSA9761 | 2246.5 | 2993.4 | 889.6 | 820.1 | 618.2 | 1026.1 | 1685 | 2150.7 |

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|-----------|---------|---------|---------|---------|---------|---------|--------|---------|
| HSBP1 | 2308.9 | 3095.2 | 1907.7 | 1772.4 | 1463.7 | 1833 | 2096.3 | 2517.9 |
| HSCARG | 1948.6 | 2637.4 | 818.4 | 753.2 | 594.4 | 765 | 1721.5 | 1407.1 |
| HSCB | 601.2 | 753 | 350.3 | 290.2 | 325.3 | 348.1 | 676.8 | 756.9 |
| HSD11B1 | 1772.2 | 2342.1 | 1002.4 | 526.6 | 359.1 | 713.1 | 1075.9 | 1192.1 |
| HSD11B1 | 1766.1 | 2366.8 | 1341.7 | 637.5 | 466.7 | 858.2 | 1118.9 | 1468 |
| HSD11B1 | 1598.9 | 1993.8 | 586.7 | 307.8 | 239.8 | 389.2 | 1075.5 | 1024.4 |
| HSD11B1L | 121.6 | 143 | 118.1 | 110.1 | 97.8 | 102 | 118.2 | 123.8 |
| HSD11B2 | 85.6 | 104.5 | 99.5 | 83.4 | 82.3 | 79.2 | 90.3 | 82.3 |
| HSD17B1 | 92.4 | 104.9 | 101.8 | 91.3 | 80.3 | 94.1 | 93.9 | 97.1 |
| HSD17B12 | 6833.4 | 9195.1 | 3273.2 | 4240.5 | 2641.1 | 3875.6 | 7010 | 10246.5 |
| HSD17B13 | 92.9 | 114.1 | 96.6 | 96.9 | 82.6 | 87.2 | 99.2 | 111.2 |
| HSD17B2 | 80.6 | 91 | 86.4 | 83.1 | 92.2 | 89.5 | 84.5 | 89.3 |
| HSD17B3 | 117.5 | 122 | 94.8 | 91 | 89.5 | 107 | 109.9 | 114.2 |
| HSD17B4 | 1791.7 | 2339.8 | 1092.3 | 1780.5 | 1239.4 | 2655.1 | 1385.3 | 2309.3 |
| HSD17B6 | 181.2 | 238.5 | 160.8 | 123.6 | 110.2 | 125.7 | 187.6 | 245 |
| HSD17B8 | 301.3 | 392.8 | 228.8 | 228.3 | 214.6 | 274.4 | 277.5 | 298.9 |
| HSD3B1 | 113.4 | 108.7 | 90.4 | 90.8 | 74.5 | 92.6 | 108.5 | 121 |
| HSD3B2 | 87.6 | 112.5 | 99.4 | 93.5 | 90.8 | 88 | 88.5 | 99.9 |
| HSD3B7 | 97.9 | 130.3 | 116.3 | 95.5 | 102.1 | 105 | 109.6 | 135.8 |
| HSDL1 | 154.9 | 178.7 | 153.3 | 140.9 | 139.8 | 171.7 | 137.8 | 188.8 |
| HSDL2 | 556 | 680.5 | 293 | 358.8 | 250.4 | 470.7 | 498.9 | 1047.3 |
| HSF1 | 151.1 | 212.5 | 143.2 | 135.1 | 127.2 | 92.1 | 138.6 | 167.2 |
| HSF2 | 691.6 | 863.9 | 427.3 | 461.7 | 354.9 | 732 | 459.8 | 874.4 |
| HSF2BP | 140.9 | 150.2 | 135.2 | 177.7 | 156.2 | 192.6 | 121.2 | 150.7 |
| HSF4 | 78.5 | 95.9 | 92.6 | 90.7 | 98.9 | 121.2 | 80.8 | 92.3 |
| HSF4 | 100.8 | 126.3 | 96.1 | 69.7 | 70.3 | 100.5 | 102.1 | 125.3 |
| HSF5 | 79.6 | 93.5 | 83.1 | 88.3 | 77.3 | 81.3 | 90.5 | 92.4 |
| HSFX1 | 88.8 | 93.2 | 97.8 | 88.4 | 84.6 | 93.7 | 99.5 | 86.1 |
| HSFY1 | 101.9 | 117.1 | 96.1 | 90.6 | 94.5 | 88.4 | 98.3 | 116.5 |
| HSFY1 | 76.1 | 85.8 | 90.2 | 86.4 | 80.2 | 84.5 | 72.4 | 82.1 |
| HSFY2 | 73.3 | 89.2 | 99.4 | 85.3 | 95.6 | 96.6 | 74.2 | 85 |
| HSFY2 | 81.6 | 105.1 | 86.8 | 74 | 67.7 | 83.3 | 93.9 | 107.4 |
| HSH2D | 302.5 | 381.9 | 282.6 | 184.2 | 229.6 | 273.7 | 181.4 | 223.6 |
| HSMPP8 | 449.8 | 572.4 | 398.5 | 461.9 | 498.6 | 644.4 | 360.6 | 491.9 |
| HSN2 | 93.5 | 107.9 | 92.8 | 113.5 | 111.5 | 107.6 | 88.5 | 93.2 |
| HSP90AA1 | 105.4 | 119.5 | 99.8 | 95.1 | 93.6 | 88.9 | 109.4 | 125.4 |
| HSP90AA1 | 22620.8 | 25999.7 | 14055.7 | 10703.6 | 10639.8 | 17785.9 | 24382 | 28577.8 |
| HSP90AB1 | 8537.4 | 11904.8 | 8066 | 6135.5 | 4935.1 | 8968.4 | 6834.9 | 12789 |
| HSP90AB2f | 136.4 | 166.3 | 112.2 | 95.8 | 87.3 | 104 | 131 | 157.3 |
| HSP90AB4f | 80.1 | 103.1 | 88.2 | 87.4 | 79.6 | 80.7 | 93.2 | 82.6 |
| HSP90B1 | 9768.1 | 12067.2 | 8413.1 | 12301.3 | 11464.7 | 15709.4 | 8349.6 | 8740.8 |
| HSP90B3P | 84.9 | 105 | 107.3 | 87.6 | 79.8 | 81.8 | 100.4 | 97.8 |
| HSPA12A | 76.1 | 87.9 | 97.9 | 77.6 | 85.8 | 94.2 | 86.3 | 89.3 |
| HSPA12B | 91 | 100.9 | 94 | 95 | 95.7 | 101 | 94 | 111.9 |
| HSPA14 | 1991.1 | 2670.8 | 1046.4 | 513.4 | 448.4 | 666.4 | 1657.1 | 2617.6 |
| HSPA1A | 117.7 | 145.1 | 113.4 | 125.7 | 122.5 | 138.4 | 141.5 | 269.7 |
| HSPA1B | 2273.9 | 3118.6 | 2489.9 | 1646.1 | 1193.4 | 1554.6 | 3079 | 6950 |
| HSPA1L | 217.8 | 241.1 | 171.5 | 174.6 | 158.4 | 206.1 | 214.4 | 297.6 |
| HSPA2 | 108.1 | 123.1 | 108.4 | 115.4 | 94.4 | 107.4 | 104 | 144.1 |
| HSPA4 | 640 | 877.8 | 208.5 | 171.6 | 184.1 | 263.8 | 619.5 | 1416 |

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|----------|---------|---------|---------|--------|--------|---------|---------|---------|
| HSPA4 | 260.6 | 348.8 | 149.9 | 140.3 | 142.6 | 171.2 | 210.7 | 284.8 |
| HSPA4 | 4317.3 | 5648.3 | 1903.1 | 2112.6 | 1498.1 | 2928 | 4292.7 | 5376.3 |
| HSPA4L | 494.4 | 646.1 | 260.8 | 197.5 | 167.3 | 305.6 | 350.1 | 627.5 |
| HSPA5 | 1318.3 | 1744.5 | 810.4 | 1315.9 | 783.4 | 1345.4 | 1360.9 | 1947.3 |
| HSPA8 | 19480.6 | 21992.2 | 14986.5 | 9871.1 | 7221.3 | 13691.2 | 17390.1 | 26770.3 |
| HSPA8 | 18126.5 | 22556.1 | 11694.6 | 5996.8 | 4879.7 | 8730.4 | 16991.9 | 28266.6 |
| HSPA9B | 3844.3 | 5477.7 | 2777.3 | 2078.2 | 1753.7 | 4027.4 | 3097.9 | 5385.2 |
| HSPB1 | 10535.5 | 11969.5 | 3861.7 | 2672.9 | 2166.9 | 2908.6 | 10956.6 | 13352.7 |
| HSPB2 | 133.4 | 143.7 | 105.2 | 94.8 | 94.8 | 95.7 | 114.8 | 119.5 |
| HSPB3 | 86.4 | 107.8 | 107.7 | 90.7 | 83.6 | 95 | 91.2 | 88 |
| HSPB6 | 121.2 | 159 | 112.4 | 116.2 | 99.7 | 100 | 122 | 134.4 |
| HSPB7 | 109.1 | 141 | 135.1 | 142.5 | 135 | 198.6 | 107.6 | 113.5 |
| HSPB8 | 82.2 | 90.2 | 82.5 | 78.5 | 83.2 | 83.2 | 84.3 | 93.1 |
| HSPB9 | 91.1 | 109.9 | 90.8 | 90 | 84.7 | 80.6 | 93.4 | 100.4 |
| HSPBAP1 | 374.6 | 483.7 | 212.3 | 193.6 | 173.2 | 228.9 | 276.4 | 323.4 |
| HSPBP1 | 209 | 294.6 | 132.7 | 118.3 | 113.6 | 111.1 | 207.2 | 223.5 |
| HSPBP1 | 268.4 | 338.6 | 152.4 | 110.9 | 107.5 | 114.2 | 215.9 | 297.1 |
| HSPC023 | 2004.2 | 2348.3 | 1570.1 | 1292.8 | 1115.5 | 1441.5 | 2118.2 | 2371.6 |
| HSPC049 | 728.6 | 954.5 | 809.4 | 556.4 | 418.9 | 725.5 | 338.9 | 710.9 |
| HSPC065 | 99.3 | 114.1 | 97.6 | 96.2 | 85.6 | 89.1 | 89.4 | 112.1 |
| HSPC072 | 93.8 | 103.5 | 81.1 | 79 | 78.3 | 85.4 | 90.7 | 102.3 |
| HSPC105 | 97.7 | 106.2 | 89.9 | 88.1 | 80.8 | 88.1 | 89.8 | 104.9 |
| HSPC111 | 1272.2 | 1439.4 | 558.5 | 447.3 | 316.4 | 570.9 | 893.2 | 1176.5 |
| HSPC117 | 1682.9 | 2230.9 | 1126.6 | 1050 | 886.7 | 1469.5 | 1379.6 | 1198.7 |
| HSPC142 | 775.8 | 1151.5 | 441.6 | 352.3 | 369.9 | 349.7 | 818.4 | 903 |
| HSPC142 | 1957.4 | 2517.9 | 1738.5 | 1413.6 | 1141.5 | 1586.6 | 1928 | 2660.7 |
| HSPC148 | 2738.4 | 3157.2 | 1256.6 | 1113.7 | 933.3 | 1399 | 2218.9 | 2662.6 |
| HSPC152 | 4672.4 | 6256 | 1720.2 | 1090.9 | 814 | 1199.5 | 4238.9 | 5273.9 |
| HSPC159 | 197.4 | 246.8 | 128.3 | 93.6 | 86 | 101.2 | 161 | 192.8 |
| HSPC171 | 779.8 | 994.1 | 592 | 531.5 | 379.2 | 549.2 | 772.9 | 1320.6 |
| HSPC176 | 3051.1 | 3814.2 | 2668.3 | 1980.8 | 1801.7 | 2159.8 | 3093.1 | 2957.5 |
| HSPC196 | 768.5 | 891.2 | 473.4 | 428.8 | 393.4 | 491.6 | 668.3 | 741.1 |
| HSPC268 | 707.8 | 734.1 | 442.4 | 564.6 | 586.5 | 450.6 | 763.4 | 1315.1 |
| HSPD1 | 17128.7 | 18243.2 | 7533.1 | 6648.2 | 4664.6 | 7871 | 14451.3 | 18930.9 |
| HSPD1 | 106.8 | 107.4 | 103.4 | 97 | 91.8 | 98.3 | 96.6 | 103.3 |
| HSPD1 | 451.6 | 533.2 | 182.4 | 145 | 120.1 | 141.8 | 293.6 | 393.7 |
| HSPE1 | 4784.6 | 5478.7 | 1153.2 | 1130.8 | 719.4 | 1447.6 | 4258.7 | 6511.8 |
| HSPG2 | 111.4 | 118.6 | 103.5 | 93.8 | 83.4 | 95.1 | 112.4 | 126.7 |
| HSPH1 | 6044.6 | 7574.2 | 3340 | 2382.2 | 1752.5 | 3506.6 | 6031.3 | 9368.7 |
| HSU79303 | 1883.7 | 2304.9 | 1095.7 | 413 | 367.5 | 319 | 1414.3 | 1164.8 |
| HSZFP36 | 642.9 | 740.8 | 457.6 | 395 | 316.4 | 492.8 | 539.8 | 852.4 |
| HSZFP36 | 446 | 590.9 | 236.6 | 206.5 | 216.6 | 308.5 | 376.3 | 481.9 |
| HTATIP | 113.6 | 159.3 | 112.2 | 111.1 | 100.1 | 107 | 119.7 | 131.8 |
| HTATIP | 169.8 | 192.5 | 108.5 | 83.9 | 82.1 | 90.7 | 174.6 | 193.7 |
| HTATIP2 | 1930.1 | 2589.9 | 1243.1 | 763.3 | 631.2 | 928.8 | 2637.3 | 3485.7 |
| HTATSF1 | 92.4 | 119.6 | 91.2 | 97.3 | 79.5 | 91.8 | 87.3 | 110.8 |
| HTF9C | 146.2 | 198.5 | 111.9 | 105.5 | 100.4 | 109.4 | 156.3 | 173.7 |
| HTF9C | 131.1 | 156.6 | 113.8 | 111.5 | 107 | 98.1 | 117.7 | 146.2 |
| HTF9C | 108.6 | 128.9 | 112.3 | 118 | 99.6 | 127 | 105.3 | 114.5 |
| HTLF | 1250.1 | 1627.2 | 722.9 | 878 | 647.6 | 1324.5 | 1199.4 | 1980.2 |

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|-------|--------|--------|--------|--------|-------|--------|--------|--------|
| HTN1 | 74.6 | 85.5 | 85.5 | 83.9 | 79.8 | 76.9 | 77.4 | 84.2 |
| HTN3 | 121.3 | 128.6 | 114.1 | 100.1 | 93.7 | 96 | 121.6 | 128.4 |
| HTR1A | 83.9 | 93.1 | 89.6 | 96.1 | 75.1 | 83.7 | 83.6 | 91.9 |
| HTR1B | 78.8 | 85.5 | 87.1 | 91.6 | 88.4 | 75.9 | 74.9 | 84 |
| HTR1D | 112.3 | 121.1 | 99.1 | 92.7 | 84.5 | 98.9 | 104.1 | 111.5 |
| HTR1E | 152.6 | 176.5 | 122.8 | 100.3 | 100.1 | 99.2 | 143.2 | 177.8 |
| HTR1F | 75.7 | 73.6 | 84.9 | 85.7 | 86.5 | 94.5 | 82.1 | 79.1 |
| HTR2A | 1632 | 2019.4 | 522.4 | 493.7 | 524.3 | 630.1 | 1602.5 | 2234 |
| HTR2B | 88.7 | 106.2 | 103.5 | 93.3 | 90 | 93.8 | 83.5 | 97.2 |
| HTR2C | 79.7 | 77.5 | 109.4 | 103.2 | 105.2 | 102.7 | 78.8 | 82.2 |
| HTR3A | 99 | 94.7 | 108.3 | 96.2 | 87.5 | 91.1 | 95.9 | 105.3 |
| HTR3A | 96.6 | 118.2 | 84.9 | 85.7 | 91.4 | 89.2 | 96.7 | 109.3 |
| HTR3A | 91.8 | 106.7 | 91.2 | 89.3 | 93 | 88.7 | 94.1 | 86.8 |
| HTR3B | 103.4 | 122.4 | 93.2 | 96.2 | 86.3 | 93.1 | 91.5 | 98.6 |
| HTR3C | 94.3 | 103 | 98.4 | 104.6 | 90.7 | 85.6 | 86.9 | 91.4 |
| HTR3D | 85.9 | 92 | 90.9 | 91.2 | 84.4 | 90.9 | 82.2 | 89.7 |
| HTR3E | 90.2 | 83.2 | 92.5 | 84.8 | 84.6 | 87.5 | 88.6 | 82.9 |
| HTR4 | 78.2 | 86.3 | 76.2 | 69.2 | 70 | 78.2 | 77.9 | 96.3 |
| HTR4 | 83 | 96 | 95.5 | 85.3 | 93.2 | 88.7 | 84.4 | 91.6 |
| HTR4 | 125.4 | 144.2 | 103.3 | 101.1 | 106.2 | 93.3 | 112.8 | 112.6 |
| HTR4 | 96.2 | 125 | 88.6 | 86.3 | 73.7 | 85.7 | 103 | 123.2 |
| HTR5A | 84.2 | 87.9 | 82.1 | 72.3 | 74.8 | 85.3 | 85.2 | 90.3 |
| HTR6 | 134.6 | 160.6 | 95.3 | 96.7 | 90.2 | 94.2 | 133.7 | 160.3 |
| HTR7 | 100.8 | 115.8 | 92.5 | 85.1 | 93.5 | 96 | 111.6 | 125.5 |
| HTR7 | 141.9 | 180.8 | 107.9 | 107.2 | 99.3 | 98.1 | 138.2 | 170.9 |
| HTR7P | 124.8 | 132 | 99.2 | 85.3 | 90.1 | 94.6 | 124.5 | 141.3 |
| HTRA1 | 87.9 | 91 | 87.8 | 78.5 | 94.4 | 91.7 | 99.9 | 106.6 |
| HTRA2 | 671.1 | 902.7 | 338.6 | 209.3 | 199.9 | 277.5 | 464.5 | 816.6 |
| HTRA2 | 353.3 | 437.6 | 207.1 | 185.2 | 174.7 | 257.9 | 300.5 | 380.7 |
| HTRA3 | 96.3 | 111.7 | 94.4 | 98.6 | 90.6 | 84.1 | 90.7 | 99.2 |
| HTRA4 | 95.8 | 101.3 | 96.7 | 97.8 | 92.8 | 105.8 | 97.4 | 100.5 |
| HUNK | 84.4 | 93.7 | 102.5 | 97.6 | 92.5 | 93.6 | 85.9 | 96.8 |
| HUS1 | 76.3 | 99 | 96.9 | 84.1 | 83 | 84.8 | 84.4 | 78.2 |
| HUS1B | 259.9 | 303.4 | 106.7 | 117.3 | 108.7 | 134.3 | 195.6 | 259.4 |
| HUWE1 | 153.6 | 228.1 | 137.1 | 176.9 | 165.6 | 277.4 | 155.9 | 195.8 |
| HYAL1 | 112.2 | 116.5 | 93.5 | 89 | 90.3 | 92.9 | 101.7 | 112.6 |
| HYAL1 | 82.8 | 89.6 | 86.3 | 84.6 | 81.2 | 88.2 | 86.4 | 93.5 |
| HYAL1 | 104.4 | 128.4 | 98.5 | 90.7 | 89 | 88.8 | 101.2 | 102.3 |
| HYAL1 | 93.6 | 108.8 | 87.9 | 83.5 | 83.6 | 84.5 | 86 | 105.9 |
| HYAL2 | 120.9 | 135.9 | 86.2 | 82.4 | 79.8 | 94 | 131.1 | 144.9 |
| HYAL2 | 233.4 | 264.8 | 184.6 | 176.2 | 151.4 | 250 | 168.9 | 231.4 |
| HYAL2 | 96.1 | 105 | 82.5 | 80 | 77.1 | 75 | 84.6 | 123.8 |
| HYAL3 | 1480.5 | 1962.7 | 1112.8 | 1108.5 | 991.4 | 1397.6 | 1318.4 | 1982.8 |
| HYAL4 | 104.5 | 120.8 | 87.7 | 84.9 | 84.2 | 81.8 | 102.8 | 122.4 |
| HYDIN | 86.4 | 90.1 | 97.9 | 91.4 | 91.9 | 93 | 83.8 | 94 |
| HYDIN | 104 | 106.4 | 94.9 | 83.4 | 83.7 | 86.2 | 115.2 | 105 |
| HYDIN | 79 | 90.8 | 88.7 | 85.1 | 80.6 | 75.8 | 88.4 | 85.6 |
| HYDIN | 97.4 | 109.3 | 97.4 | 91.1 | 87.3 | 95.9 | 100.6 | 103.7 |
| HYI | 272.2 | 337.4 | 210 | 190 | 164.4 | 213.5 | 224.8 | 298.7 |
| HYLS1 | 1242.9 | 1593.3 | 736.4 | 396.6 | 328.1 | 526 | 957.9 | 1461.6 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| HYOU1 | 332.2 | 415.7 | 453.2 | 355.9 | 268.2 | 488.8 | 332.1 | 608.1 |
| HYPB | 705.5 | 1062.4 | 636.3 | 1011.9 | 902.8 | 1477.9 | 772.2 | 923.2 |
| HYPE | 212.9 | 290 | 136.6 | 164 | 130.8 | 119.4 | 226.9 | 327.3 |
| HYPK | 2242.3 | 2365.1 | 1598.5 | 2817.4 | 2587.9 | 2020.6 | 2273.5 | 3309.9 |
| IAH1 | 2429.1 | 3217.6 | 1870 | 1788.7 | 1284.9 | 2159.9 | 1848.7 | 4084.4 |
| IAPP | 108.8 | 113.4 | 99.8 | 90.8 | 93.1 | 100 | 93.7 | 101.5 |
| IARS | 2024.2 | 2881.7 | 1580.8 | 1210.6 | 828 | 1931.8 | 1647.1 | 2695.7 |
| IARS | 116.9 | 124.8 | 97.7 | 84.4 | 77.4 | 84.6 | 95.9 | 110.3 |
| IARS2 | 3721 | 4946.9 | 2142 | 2159 | 1665.6 | 3474.4 | 2796.8 | 4400.5 |
| IBRDC1 | 129.3 | 120.6 | 119.9 | 106.1 | 96.2 | 126.6 | 110.7 | 143.4 |
| IBRDC2 | 106.4 | 117.4 | 100.3 | 147.3 | 151.6 | 156.2 | 98.4 | 103.1 |
| IBRDC3 | 99.4 | 132.9 | 131.5 | 123.5 | 128.3 | 193.2 | 114.4 | 182.1 |
| IBSP | 101.4 | 120.5 | 100.8 | 102.8 | 96.5 | 104.8 | 107 | 122.8 |
| IBTK | 1114.6 | 1256.5 | 471.7 | 742.7 | 455.4 | 920.6 | 957.5 | 1732.7 |
| ICA1 | 314.3 | 386.6 | 221.1 | 271.7 | 240.9 | 328.9 | 314.1 | 436.9 |
| ICA1 | 429.2 | 606.7 | 337 | 455.4 | 402.1 | 502 | 428.7 | 498.2 |
| ICA1 | 124.9 | 130.1 | 104.6 | 98.9 | 86.2 | 98.1 | 114.9 | 150.2 |
| ICA1L | 96.5 | 95.6 | 98.3 | 97.3 | 95.2 | 100.1 | 104.3 | 101.7 |
| ICA1L | 133.5 | 153.6 | 115.2 | 99.2 | 91.3 | 105.3 | 110.6 | 141.7 |
| ICAM1 | 123.9 | 145.1 | 98.7 | 80.4 | 81 | 93.2 | 120.9 | 163.8 |
| ICAM2 | 239.4 | 330.4 | 231 | 267.2 | 233.8 | 291.2 | 233.4 | 247.6 |
| ICAM3 | 914.8 | 1082.9 | 1083.5 | 1421.2 | 1195.3 | 1782.4 | 777.6 | 875.3 |
| ICAM4 | 92.8 | 114.9 | 110.2 | 100.5 | 106.3 | 119.3 | 100.7 | 100.5 |
| ICAM4 | 113.4 | 121.6 | 112 | 110.3 | 107.9 | 104.5 | 113.3 | 124.2 |
| ICAM4 | 86.2 | 98.8 | 87.2 | 95 | 95.8 | 100.5 | 82.9 | 92.7 |
| ICAM5 | 90.5 | 102.7 | 93.9 | 79.3 | 82 | 91.1 | 83.9 | 108.7 |
| ICEBERG | 92.7 | 90.7 | 92 | 78.5 | 81.9 | 83.1 | 80.2 | 98.3 |
| ICK | 139.1 | 169.1 | 105.2 | 95 | 82 | 90.2 | 140 | 171.3 |
| ICK | 73.7 | 73.2 | 83.8 | 82.5 | 84 | 82.7 | 78.9 | 85.3 |
| ICMT | 670.7 | 972 | 491.4 | 474.7 | 391.7 | 606.2 | 555.2 | 918.2 |
| ICOS | 131.8 | 140.1 | 114 | 98.9 | 93.4 | 109.7 | 121.3 | 132.7 |
| ICOSLG | 167.1 | 206.3 | 144.9 | 155.2 | 122.2 | 194.1 | 163.6 | 204.6 |
| ICT1 | 1259.5 | 1666.1 | 565 | 415.8 | 373.4 | 668.9 | 1119.7 | 1604.6 |
| ID1 | 156.4 | 123.6 | 123.7 | 94.5 | 81.9 | 89 | 115.5 | 128.8 |
| ID1 | 667.9 | 711.9 | 321.8 | 249 | 140.9 | 260.6 | 586.9 | 1087 |
| ID2 | 1546.5 | 1724.3 | 717.4 | 697.8 | 650.6 | 833.7 | 1619.8 | 2961.8 |
| ID3 | 492.3 | 633.3 | 340.3 | 297.8 | 176.7 | 313.4 | 671.4 | 987.3 |
| ID4 | 80.9 | 89 | 85.4 | 75.7 | 77.6 | 80 | 83.2 | 94.5 |
| IDE | 409.1 | 563.2 | 272.1 | 204.3 | 171.8 | 241.1 | 440.9 | 622.2 |
| IDH1 | 2651.3 | 3314.8 | 1779.4 | 1459.1 | 1164.4 | 1956.5 | 2150.2 | 4106.8 |
| IDH2 | 2211.6 | 3185.8 | 1934.4 | 1331.6 | 1194.2 | 2021 | 1948.8 | 2755.3 |
| IDH3A | 546.5 | 699.8 | 521.2 | 562.6 | 432.6 | 853.6 | 460.8 | 572.2 |
| IDH3B | 2228.5 | 2931.2 | 1434.3 | 1034 | 860.6 | 1282 | 1925.5 | 2381.2 |
| IDH3B | 95.5 | 92.5 | 103 | 103.5 | 90 | 92.2 | 84.9 | 105.6 |
| IDH3B | 1214.4 | 1865 | 989.2 | 659.7 | 651.5 | 868.4 | 1111.1 | 1414.9 |
| IDH3G | 113.1 | 140.7 | 103.5 | 98 | 92.5 | 97.4 | 105.8 | 171.8 |
| IDH3G | 1083.7 | 1312 | 998.6 | 717 | 695.7 | 773.2 | 973 | 1100.8 |
| IDI1 | 611.3 | 720.4 | 205.4 | 237.8 | 201.9 | 278.8 | 555.7 | 1122.4 |
| IDI2 | 73.9 | 81.6 | 86.3 | 84.5 | 85.4 | 80.7 | 80.4 | 78.7 |
| IDS | 349 | 419.4 | 305 | 351.1 | 305 | 438.6 | 330.8 | 504 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| IDS | 152.9 | 161.7 | 107.3 | 122.5 | 94.3 | 116.3 | 148.9 | 204.1 |
| IDS | 338 | 483 | 259.2 | 237.1 | 200.2 | 277.5 | 359.9 | 688.6 |
| IDUA | 165.6 | 162.8 | 191.3 | 187.6 | 154.1 | 354.6 | 120.5 | 202.1 |
| IER2 | 135.7 | 182.6 | 112.6 | 93.7 | 95.1 | 93 | 146.3 | 166.1 |
| IER3 | 115.5 | 116.5 | 90.4 | 89.5 | 87.1 | 86.2 | 105 | 119.7 |
| IER3IP1 | 1096.8 | 1261.9 | 432.4 | 288.4 | 287.3 | 287.2 | 1048.2 | 2022.6 |
| IER5 | 336.8 | 456.1 | 306.6 | 212.9 | 210.7 | 257.6 | 386 | 758.8 |
| IER5L | 139.3 | 165.5 | 145 | 107.7 | 112.3 | 124.6 | 153.8 | 230.9 |
| IFI16 | 374.9 | 465.8 | 177.6 | 166.5 | 152.2 | 284.8 | 263.6 | 345.4 |
| IFI27 | 121.6 | 145.6 | 119.1 | 90.2 | 89.5 | 87 | 164 | 188 |
| IFI30 | 127.4 | 164.9 | 105.7 | 197.1 | 182 | 233.2 | 120.6 | 133.2 |
| IFI35 | 978.3 | 1230.8 | 680.7 | 638.2 | 568.6 | 734.6 | 921.4 | 1136.7 |
| IFI44 | 181.4 | 241.5 | 153.9 | 133.6 | 114.1 | 138.3 | 191.1 | 294.4 |
| IFI44L | 94.9 | 108.2 | 96.1 | 87.4 | 88.6 | 88.6 | 90 | 91.9 |
| IFI6 | 356 | 418.6 | 218.8 | 140.5 | 144 | 113.7 | 289.1 | 368.9 |
| IFIH1 | 352.7 | 339.2 | 162.1 | 154.8 | 150.5 | 150.7 | 280.1 | 367.5 |
| IFIT1 | 160.7 | 192 | 128.2 | 101.1 | 100.6 | 98 | 156.7 | 174.1 |
| IFIT1L | 82 | 90.7 | 74.9 | 81.6 | 78.2 | 80.6 | 91.6 | 80.7 |
| IFIT2 | 213.1 | 248.1 | 185 | 114.2 | 108.2 | 125 | 215.2 | 256.4 |
| IFIT3 | 160.7 | 186.8 | 121.9 | 99.8 | 88.8 | 95.9 | 163.8 | 165.9 |
| IFIT3 | 125.2 | 153.1 | 121.3 | 99 | 116 | 111.7 | 128.6 | 133.8 |
| IFIT3 | 86.3 | 102.1 | 93.6 | 92.6 | 86.3 | 85 | 97.5 | 95.9 |
| IFIT5 | 104.6 | 132.8 | 97.8 | 98.2 | 91.7 | 84 | 115.6 | 127.1 |
| IFITM1 | 721.5 | 1014.4 | 693.9 | 246.4 | 247.2 | 205.8 | 677.7 | 824.9 |
| IFITM2 | 4643.4 | 5454.6 | 3438.7 | 1910.9 | 1723.8 | 1566.1 | 5493.3 | 6410.4 |
| IFITM3 | 2201.8 | 2581 | 1413.2 | 839 | 617.6 | 649 | 2325.1 | 3787.7 |
| IFITM4P | 80.9 | 93.4 | 100 | 85.7 | 86.5 | 84.1 | 89.5 | 90.3 |
| IFITM5 | 82.1 | 97.1 | 90.3 | 90.4 | 92.1 | 89.5 | 92.9 | 83.3 |
| IFNA1 | 89.6 | 104.2 | 87.7 | 88 | 86.8 | 88.7 | 88.8 | 100.1 |
| IFNA10 | 165.9 | 174.4 | 117.9 | 110.2 | 98.6 | 108.9 | 157.8 | 161.4 |
| IFNA13 | 90.7 | 108 | 101.1 | 83.9 | 82.1 | 77 | 102.9 | 106.7 |
| IFNA14 | 93.4 | 108 | 104.4 | 102.7 | 85.5 | 102.6 | 90.8 | 100.3 |
| IFNA16 | 88.4 | 96.9 | 104.9 | 98.7 | 93.4 | 100.4 | 82.1 | 83.5 |
| IFNA17 | 82.5 | 89.1 | 88.5 | 75.7 | 88.8 | 85.1 | 75.7 | 77.2 |
| IFNA2 | 83.1 | 97.9 | 91.6 | 79.3 | 83.2 | 89.5 | 99.1 | 99.4 |
| IFNA21 | 101.8 | 114 | 111.5 | 102.5 | 100.4 | 109.5 | 96.4 | 112.5 |
| IFNA4 | 81.8 | 89.9 | 86.3 | 84 | 82 | 79.2 | 82.1 | 89.2 |
| IFNA5 | 90.8 | 108.4 | 101.9 | 79.1 | 85.7 | 85 | 96.6 | 100.1 |
| IFNA6 | 79.4 | 83.8 | 84.5 | 73.1 | 74.7 | 84.9 | 80.9 | 84.7 |
| IFNA7 | 113.5 | 121.2 | 92.2 | 96.8 | 86.5 | 90.5 | 111.4 | 129.4 |
| IFNA8 | 322 | 436.9 | 192.9 | 158.6 | 149.2 | 177.5 | 342.5 | 375.7 |
| IFNAR1 | 306.8 | 424.6 | 306.6 | 397.3 | 354.9 | 452.3 | 305.5 | 381.1 |
| IFNAR2 | 353.5 | 432.1 | 245.4 | 406.8 | 345.3 | 233 | 397.6 | 666.3 |
| IFNAR2 | 1236 | 1748.3 | 867 | 908.2 | 663.1 | 1183.2 | 969.6 | 1541.7 |
| IFNAR2 | 107.2 | 140.7 | 91.5 | 82.2 | 76.2 | 86.3 | 104 | 101.9 |
| IFNB1 | 82.2 | 110.9 | 87.6 | 72.1 | 75.2 | 71.7 | 91.3 | 89.2 |
| IFNE1 | 78.6 | 82.5 | 101 | 101 | 91.8 | 98.6 | 88.3 | 89.7 |
| IFNG | 85.3 | 91.8 | 99.6 | 90.6 | 95 | 98.2 | 84.8 | 84.2 |
| IFNGR1 | 2192.5 | 2831.2 | 1499.9 | 2091.9 | 1360.8 | 2672.1 | 2033 | 2668 |
| IFNGR2 | 4217 | 4798.3 | 2952.4 | 3327.8 | 2862.7 | 4601.3 | 3230.3 | 4176.3 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| IFNK | 101.9 | 118.1 | 92.8 | 83.4 | 76.5 | 81.8 | 113.6 | 115.7 |
| IFNW1 | 71 | 85.6 | 87.2 | 90 | 90.6 | 94.1 | 84.3 | 93.6 |
| IFRD1 | 561.6 | 677.1 | 189.5 | 207.7 | 150.3 | 246.8 | 624.3 | 994.3 |
| IFRD1 | 107.5 | 104.2 | 83.6 | 81.7 | 92.9 | 90.6 | 132.4 | 196.2 |
| IFRD2 | 628.9 | 860.7 | 527.8 | 364.7 | 277.8 | 389 | 510 | 619.7 |
| IFRG15 | 119.4 | 136.7 | 112.5 | 95.6 | 85.4 | 90.1 | 102.2 | 129.6 |
| IFT122 | 85.8 | 117.3 | 89.2 | 74.7 | 84.5 | 82.7 | 88.2 | 109.4 |
| IFT122 | 221.2 | 295.6 | 204.4 | 231.4 | 196.5 | 259 | 227.2 | 330.6 |
| IFT122 | 421.6 | 587.4 | 357.4 | 351.9 | 344.3 | 350.2 | 376.2 | 373.6 |
| IFT140 | 102 | 111.2 | 102.5 | 86.7 | 94.4 | 99.2 | 96.7 | 114.5 |
| IFT172 | 151.6 | 167.9 | 125.8 | 125.4 | 118.6 | 135 | 140.4 | 151 |
| IFT52 | 326.8 | 464.2 | 186.6 | 204.7 | 150.9 | 289.3 | 342.3 | 613.8 |
| IFT57 | 186.2 | 210.2 | 145.9 | 139.4 | 113.7 | 154.6 | 146.9 | 169.6 |
| IFT74 | 656.2 | 866.6 | 192.2 | 172.8 | 204.4 | 267.2 | 543.4 | 707.6 |
| IFT80 | 94.9 | 112.7 | 92.7 | 79.2 | 79.3 | 79.4 | 93.3 | 96.9 |
| IFT81 | 92 | 93.2 | 123.1 | 108.9 | 108.6 | 109.7 | 89.2 | 90 |
| IFT81 | 131.7 | 134.7 | 98.3 | 97.7 | 97.6 | 100.9 | 111.5 | 133.5 |
| IFT81 | 183.2 | 207.6 | 127.4 | 102.3 | 100.1 | 111.1 | 159.5 | 179.7 |
| IFT88 | 183.9 | 236.8 | 132.6 | 121.7 | 111.1 | 150.1 | 161.5 | 233.7 |
| IGBP1 | 1044.9 | 1351.9 | 439.8 | 468.5 | 378.7 | 597.9 | 1025.4 | 1757.9 |
| IGF1 | 89.1 | 99.4 | 89.6 | 88.9 | 76.7 | 80.1 | 93.3 | 96 |
| IGF1R | 103.4 | 109.9 | 93.3 | 94.8 | 87.5 | 91.2 | 93.1 | 95.6 |
| IGF2 | 77.3 | 83.6 | 87.3 | 83.3 | 83.1 | 82.1 | 70.5 | 76.4 |
| IGF2 | 80.9 | 89.7 | 98.7 | 84.3 | 84.3 | 94.2 | 81 | 94.2 |
| IGF2AS | 93 | 117.5 | 86.1 | 78.1 | 86.3 | 81.1 | 93.5 | 106 |
| IGF2BP1 | 115.1 | 126.1 | 97.9 | 96.1 | 84.2 | 87 | 106.4 | 151.5 |
| IGF2BP2 | 2606.8 | 2721.5 | 1341.9 | 1855.1 | 1488.8 | 2084.8 | 2389.6 | 5550.2 |
| IGF2BP3 | 118.4 | 140.2 | 113 | 127.1 | 120.7 | 140.5 | 131.6 | 180.8 |
| IGF2R | 2017.5 | 3254.4 | 1701.5 | 4537 | 3587.5 | 4465.7 | 2589.5 | 2769.8 |
| IGFALS | 110.4 | 100.5 | 97 | 96.8 | 100.1 | 90.2 | 94.8 | 110.6 |
| IGFBP1 | 135.8 | 151.2 | 103.2 | 81.3 | 80.5 | 91.9 | 135.8 | 142.2 |
| IGFBP2 | 312.6 | 472 | 371.4 | 637.7 | 549.2 | 897.1 | 292 | 454.6 |
| IGFBP3 | 86.2 | 99.2 | 95 | 81.9 | 80.5 | 87.3 | 88.9 | 103.3 |
| IGFBP3 | 98.4 | 124.7 | 102.8 | 93.2 | 88.8 | 91.9 | 102.1 | 109.3 |
| IGFBP4 | 301.7 | 403 | 437.9 | 224.8 | 197 | 412.6 | 248 | 430.2 |
| IGFBP5 | 116.9 | 100.3 | 88.9 | 89.2 | 80.8 | 92 | 93.7 | 111.8 |
| IGFBP6 | 108.9 | 107.7 | 93.5 | 103 | 100.7 | 91.8 | 90.9 | 100.9 |
| IGFBP7 | 3249.7 | 4141.6 | 2575.6 | 1992.5 | 1661 | 2165.5 | 2850.6 | 5382.6 |
| IGFBPL1 | 115.6 | 145 | 83.8 | 89.8 | 86.3 | 87.7 | 112.3 | 140.9 |
| IGFL1 | 79.7 | 81.7 | 95.9 | 87.8 | 87.8 | 92.1 | 84 | 83.1 |
| IGFL2 | 78 | 84.5 | 102.9 | 90.7 | 90.5 | 88.3 | 78.7 | 81.3 |
| IGFL3 | 125.8 | 138.1 | 97.4 | 82.7 | 84.2 | 84.1 | 100.8 | 125.1 |
| IGFL4 | 84.2 | 95.1 | 91.3 | 79.9 | 88.8 | 81.1 | 86.8 | 88.6 |
| IGHMBP2 | 130.1 | 149.9 | 146.1 | 123.5 | 130.6 | 143.1 | 113.4 | 145.4 |
| IGJ | 97.7 | 101.6 | 93.7 | 86.4 | 79.3 | 78.2 | 98.8 | 96.5 |
| IGLL1 | 90.7 | 99.8 | 96.6 | 90 | 81.1 | 92 | 88.3 | 107.9 |
| IGLL1 | 93 | 109.9 | 102.4 | 98.3 | 94.5 | 100.6 | 88.4 | 91 |
| IGSF1 | 105.4 | 130.8 | 127.6 | 96.9 | 83.7 | 106.1 | 109.6 | 148.3 |
| IGSF1 | 170.4 | 205.1 | 110.9 | 83.5 | 91.5 | 96.4 | 157 | 218.6 |
| IGSF1 | 98.3 | 102.6 | 116.6 | 102.5 | 101.3 | 94.2 | 99.5 | 97.8 |

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|---------|--------|---------|--------|--------|--------|--------|--------|--------|
| IGSF10 | 99 | 131.8 | 81.5 | 78.9 | 75.5 | 82.7 | 97.8 | 119.3 |
| IGSF11 | 84.3 | 99.5 | 91.8 | 85.4 | 77.5 | 84.6 | 87.7 | 95.4 |
| IGSF11 | 100.9 | 102.4 | 103.3 | 93.5 | 87.9 | 89.8 | 94.1 | 112.2 |
| IGSF11 | 114 | 140.5 | 105.5 | 104.5 | 102.4 | 105.1 | 109.9 | 113.3 |
| IGSF2 | 103.3 | 114.9 | 100.8 | 98.8 | 96.5 | 102.6 | 98.2 | 105.8 |
| IGSF21 | 76.4 | 76.6 | 93.1 | 77.9 | 83.9 | 88.8 | 78.9 | 91.2 |
| IGSF22 | 75.9 | 84.1 | 79.4 | 82.1 | 74.4 | 72.9 | 82.5 | 82.5 |
| IGSF3 | 293.9 | 474.7 | 288.8 | 245.8 | 185.3 | 236 | 309.7 | 442.5 |
| IGSF3 | 145.4 | 181.2 | 90.4 | 98.2 | 86.4 | 85.8 | 126.8 | 157.1 |
| IGSF4 | 96 | 114.4 | 102.3 | 110.2 | 92.4 | 110.2 | 86.8 | 111.3 |
| IGSF4B | 81 | 92.4 | 86 | 84.4 | 86.3 | 86.3 | 81.3 | 93.5 |
| IGSF4C | 74.8 | 94.8 | 83 | 86.3 | 74.5 | 71.4 | 84.8 | 86.9 |
| IGSF4D | 75.1 | 86.9 | 85.1 | 93.6 | 83 | 83.5 | 76.1 | 86 |
| IGSF6 | 345.2 | 493.7 | 158.3 | 199.9 | 158.3 | 164.3 | 212.4 | 227.1 |
| IGSF8 | 108.8 | 137.9 | 97.1 | 94.4 | 94.8 | 98.9 | 110.2 | 117.5 |
| IGSF9 | 96.8 | 113.3 | 90.5 | 76.3 | 79.1 | 79.6 | 99.5 | 107.4 |
| IHH | 101.6 | 115.4 | 99.4 | 79.6 | 74.9 | 88.9 | 96.7 | 101.8 |
| IHPK1 | 143.6 | 160.7 | 92.4 | 84.9 | 88.8 | 88.8 | 140.1 | 150.8 |
| IHPK1 | 855.7 | 1189.1 | 594.9 | 475 | 453.9 | 520.1 | 802.4 | 750.8 |
| IHPK1 | 523.1 | 696.5 | 823.2 | 655.5 | 544.7 | 726.9 | 584.9 | 1126.4 |
| IHPK2 | 382.4 | 519.7 | 215.6 | 197.7 | 187.2 | 211.6 | 315.1 | 422.7 |
| IHPK2 | 288.5 | 366.7 | 150.7 | 133.9 | 120.5 | 155.1 | 223 | 279.1 |
| IHPK3 | 113.5 | 133.7 | 106 | 105.4 | 100.3 | 108.4 | 113.5 | 133 |
| IIP45 | 272.3 | 351 | 297.8 | 189.4 | 172.9 | 249.5 | 274.5 | 369.2 |
| IIP45 | 100.4 | 118.5 | 120.4 | 110.4 | 93.2 | 105.3 | 84.2 | 119.9 |
| IK | 1673.5 | 2676.1 | 853 | 902 | 787 | 1492.3 | 1406.5 | 2012.6 |
| IKBKAP | 115.4 | 136.1 | 116.6 | 120.3 | 112.6 | 118.2 | 105.4 | 110.8 |
| IKBKB | 113 | 130.1 | 101.9 | 108.7 | 90.8 | 103.9 | 118.3 | 151.5 |
| IKBKE | 259.3 | 292.7 | 250.2 | 166.2 | 182.2 | 195.2 | 189.2 | 259.1 |
| IKBKG | 1586.5 | 2000.1 | 927.6 | 894.7 | 746.9 | 932.5 | 1825.4 | 1925.2 |
| IKIP | 211.5 | 306.9 | 148.6 | 172 | 153.3 | 192.3 | 196.2 | 196 |
| IKIP | 168.3 | 218.3 | 122.4 | 128.4 | 111.3 | 143.2 | 144.1 | 166.7 |
| IKIP | 201 | 226.3 | 124.5 | 135.3 | 135.1 | 156 | 168.3 | 191.7 |
| IKZF3 | 83.9 | 95.5 | 85 | 83.4 | 74.6 | 77.5 | 90.6 | 95 |
| IL10 | 1832.3 | 2043.9 | 513.1 | 929.1 | 976.8 | 560.7 | 1534.4 | 1479.3 |
| IL10RA | 155.3 | 167.8 | 134 | 142.2 | 139.4 | 137.7 | 158.4 | 201.7 |
| IL10RB | 8046.4 | 10162.9 | 5328.4 | 4755.7 | 3745.8 | 3745.1 | 8375.8 | 9387.8 |
| IL11 | 111.5 | 139.3 | 81.7 | 80.6 | 79.3 | 76.5 | 115.9 | 114 |
| IL11RA | 154.4 | 181.2 | 153.4 | 137.6 | 137.2 | 145.9 | 143.5 | 173.3 |
| IL11RA | 704.4 | 843.9 | 651.8 | 547.6 | 595.4 | 634 | 538.2 | 571.2 |
| IL11RA | 101.7 | 105.3 | 89.2 | 98.6 | 86.1 | 93.7 | 98.1 | 106.8 |
| IL12A | 132.1 | 132.2 | 109 | 86.9 | 87.4 | 92.3 | 121.4 | 127.6 |
| IL12B | 94 | 108.5 | 94 | 97.5 | 92.9 | 87.4 | 94.7 | 91.1 |
| IL12RB1 | 120.8 | 150.7 | 103.7 | 93.9 | 92.3 | 99.3 | 127.3 | 120.4 |
| IL12RB1 | 176.6 | 232.3 | 148.3 | 123.4 | 113 | 107.6 | 178.6 | 195.1 |
| IL12RB1 | 293.8 | 391.6 | 165.4 | 128.7 | 110.5 | 113.3 | 255.2 | 263.2 |
| IL12RB2 | 214.1 | 292.6 | 128.2 | 134.2 | 126.6 | 171.1 | 199.8 | 247.7 |
| IL13 | 85 | 110 | 76.2 | 83.1 | 71.4 | 69.1 | 87.8 | 102.6 |
| IL13RA1 | 1418.8 | 1598.9 | 1074 | 1976 | 1588.6 | 2202 | 1097.9 | 1672.1 |
| IL13RA2 | 76.4 | 81.6 | 87.5 | 79.1 | 74.2 | 83.3 | 74.6 | 85.5 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| IL15 | 71.5 | 101.8 | 93.2 | 83.2 | 83.5 | 81 | 90.7 | 91.7 |
| IL15 | 82.1 | 85.6 | 93.8 | 79.1 | 80.1 | 82.1 | 82.5 | 94 |
| IL15 | 162.8 | 192.5 | 121.6 | 111.4 | 104.1 | 120.9 | 147.3 | 209 |
| IL15RA | 90.7 | 94.6 | 85.6 | 85.5 | 81.3 | 86.3 | 86.2 | 91.4 |
| IL15RA | 136.7 | 160.5 | 98.5 | 89.5 | 90.7 | 95.4 | 115.1 | 134.4 |
| IL15RA | 89 | 101.9 | 82.4 | 105.9 | 88.9 | 90.6 | 91.5 | 92.4 |
| IL16 | 84.6 | 89.5 | 88.1 | 100.7 | 91.3 | 97.2 | 97 | 93 |
| IL16 | 101.9 | 129.4 | 111.9 | 126.1 | 116.2 | 147.1 | 111.8 | 133.2 |
| IL17 | 80 | 82.7 | 86.5 | 81.3 | 77 | 81.1 | 86.9 | 78.6 |
| IL17B | 104.6 | 98.6 | 91.4 | 82.7 | 88.2 | 84.7 | 89.2 | 97.7 |
| IL17C | 101.5 | 122 | 106.1 | 87.9 | 92.1 | 95.9 | 103.4 | 121.4 |
| IL17D | 190.6 | 250.9 | 163 | 163.8 | 139.7 | 165.9 | 177.2 | 185.4 |
| IL17E | 130.7 | 139.7 | 112.7 | 95.8 | 89.6 | 95.2 | 107.6 | 120.6 |
| IL17F | 88 | 97.3 | 90.8 | 84.9 | 83.1 | 80 | 82.8 | 81 |
| IL17R | 330.2 | 473.1 | 348.6 | 381 | 281.5 | 452.5 | 321.2 | 598.1 |
| IL17RB | 107.6 | 115 | 103.7 | 84.8 | 85.4 | 90.7 | 88.6 | 97.1 |
| IL17RC | 86.6 | 101.4 | 85.1 | 78.5 | 72.6 | 83.8 | 87.9 | 98.4 |
| IL17RC | 99.9 | 105.4 | 96.7 | 90.7 | 86.4 | 94.1 | 92.6 | 109.7 |
| IL17RC | 116.3 | 129.5 | 89.1 | 84.4 | 87.2 | 82.6 | 110.8 | 126.4 |
| IL17RD | 112.9 | 114.7 | 87.6 | 91.9 | 82 | 82.5 | 119.7 | 111.4 |
| IL17RD | 772.9 | 762.7 | 403.8 | 665.5 | 666.1 | 534 | 722.8 | 892.1 |
| IL17RD | 73.1 | 78 | 91.6 | 79.6 | 81.5 | 80.8 | 73.5 | 78.9 |
| IL17RE | 114 | 137.9 | 100 | 85.3 | 78.1 | 89.7 | 111.6 | 135.2 |
| IL17RE | 99.3 | 100.7 | 96 | 87.6 | 87.2 | 91.9 | 94.8 | 104.2 |
| IL17RE | 81 | 96.5 | 85.7 | 80 | 79.7 | 83.9 | 88.6 | 104.6 |
| IL18 | 8058.5 | 9217.5 | 3462.3 | 5350.5 | 5519.4 | 4659.6 | 7311.1 | 7604.4 |
| IL18BP | 89.1 | 90.6 | 93.5 | 87.9 | 88.5 | 88.7 | 83.2 | 88.6 |
| IL18BP | 494.5 | 599 | 351.4 | 770.8 | 491.9 | 640.8 | 485.6 | 654 |
| IL18R1 | 91.2 | 95.6 | 98.7 | 96.4 | 85.9 | 105.5 | 90.5 | 94.6 |
| IL18RAP | 112.2 | 142.8 | 108.3 | 97.9 | 99.8 | 107.1 | 97 | 103.2 |
| IL19 | 81.4 | 96.7 | 81.6 | 79.6 | 78.8 | 74.5 | 89.8 | 89.2 |
| IL19 | 133.8 | 156.2 | 117.8 | 110.2 | 103.3 | 105.4 | 125.2 | 139.8 |
| IL1A | 90.2 | 100.9 | 98.7 | 88.6 | 79 | 88.5 | 88.1 | 108.1 |
| IL1B | 157.3 | 191.9 | 144.1 | 128.7 | 138.2 | 143.5 | 201.2 | 282.6 |
| IL1F10 | 75.2 | 80.7 | 89.1 | 94.5 | 83.8 | 87.9 | 81.8 | 72.4 |
| IL1F10 | 92.1 | 88.8 | 88.5 | 92.3 | 84.1 | 86.1 | 91.9 | 93.2 |
| IL1F5 | 103.2 | 117.3 | 91.2 | 85 | 88.4 | 86 | 91.6 | 116.3 |
| IL1F5 | 91.3 | 84.8 | 114.6 | 90.2 | 98.1 | 92.9 | 80.4 | 93.5 |
| IL1F6 | 90.2 | 107.6 | 104.4 | 84.4 | 92.8 | 86.1 | 88.6 | 89.7 |
| IL1F7 | 82.4 | 102.5 | 100.7 | 102.8 | 93.3 | 98.8 | 95.3 | 93.3 |
| IL1F7 | 340.8 | 405.1 | 138.7 | 160.4 | 134 | 155.3 | 283.2 | 336.3 |
| IL1F7 | 74.4 | 93.1 | 95.3 | 85.1 | 75.8 | 95.3 | 86.5 | 88.5 |
| IL1F8 | 75.7 | 81.8 | 85.7 | 83.6 | 84.2 | 79 | 85 | 103 |
| IL1F8 | 110.1 | 121.2 | 95.3 | 88.2 | 96.3 | 100.7 | 103.7 | 122.3 |
| IL1F8 | 84.7 | 96.9 | 99.8 | 98.9 | 88.4 | 86.1 | 82.4 | 89.6 |
| IL1F9 | 83.9 | 97.8 | 94.4 | 83.2 | 82.3 | 89.5 | 87.2 | 85.7 |
| IL1R1 | 102.9 | 140 | 85 | 89.6 | 73.9 | 82.8 | 114.5 | 165.2 |
| IL1R2 | 85.8 | 86 | 83.9 | 84.3 | 78.1 | 93.2 | 85.4 | 95.8 |
| IL1R2 | 135.9 | 163.1 | 93.3 | 87.1 | 76.4 | 90.6 | 126.7 | 137.7 |
| IL1R2 | 89.4 | 86.5 | 97.1 | 90.1 | 88 | 96.7 | 87.2 | 88.1 |

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|----------|-------|--------|-------|-------|-------|-------|-------|--------|
| IL1RAP | 130.2 | 128.7 | 103.1 | 112.3 | 100.6 | 112.7 | 121.2 | 131.3 |
| IL1RAP | 83.7 | 95.6 | 85.8 | 84.5 | 84.3 | 94.3 | 83.7 | 101.5 |
| IL1RAP | 176 | 209.9 | 121.4 | 134.2 | 107.3 | 152.5 | 167 | 306.4 |
| IL1RAPL1 | 78.9 | 89.6 | 93.5 | 88.1 | 89 | 87 | 80.3 | 82.7 |
| IL1RAPL2 | 80.1 | 100.7 | 94.2 | 90.1 | 83.1 | 84.4 | 86.4 | 96.7 |
| IL1RL1 | 80.2 | 82.1 | 99.4 | 96.1 | 89.9 | 97.4 | 83.4 | 89.6 |
| IL1RL1 | 136.7 | 188.7 | 93.9 | 92.3 | 87.6 | 94.1 | 146.7 | 180.1 |
| IL1RL1 | 77.7 | 82 | 95 | 88.9 | 89.2 | 96.8 | 110.6 | 132.8 |
| IL1RL2 | 95.8 | 101.7 | 101.2 | 94.7 | 84.1 | 97.6 | 102.1 | 120.4 |
| IL1RN | 112 | 118.2 | 111.3 | 79.7 | 84.1 | 92.3 | 112.9 | 131.9 |
| IL1RN | 543.6 | 719.6 | 376.2 | 176 | 146.4 | 143.2 | 446.5 | 559.8 |
| IL1RN | 830 | 1068.5 | 796.8 | 431.3 | 290.9 | 456.9 | 971.4 | 1773.9 |
| IL2 | 83.5 | 93.9 | 87.9 | 85.6 | 84.4 | 84.1 | 80.2 | 85 |
| IL20RA | 133.6 | 156.4 | 99.4 | 94.1 | 84.2 | 95.3 | 139.9 | 155 |
| IL21 | 97.7 | 106.2 | 88.9 | 93.1 | 84.4 | 88.4 | 107.7 | 99.3 |
| IL21R | 138.6 | 163.4 | 117.6 | 100.6 | 97.4 | 107 | 132.7 | 154.7 |
| IL21R | 128.3 | 143.9 | 113.1 | 101.8 | 105.3 | 116.2 | 130.4 | 126.3 |
| IL21R | 109.2 | 129.4 | 97.4 | 95.9 | 94.6 | 87.8 | 109.9 | 123 |
| IL21R | 103.4 | 114.5 | 78.9 | 69.9 | 68.9 | 70.5 | 85.2 | 113.6 |
| IL22 | 82.1 | 76 | 90.1 | 92 | 89.6 | 91.9 | 79.2 | 81.3 |
| IL22RA1 | 109.9 | 118 | 95.2 | 79.7 | 81.3 | 86.6 | 99.7 | 124.9 |
| IL22RA2 | 139 | 145.8 | 96.3 | 93.1 | 89.5 | 86.8 | 122.9 | 147.7 |
| IL22RA2 | 81.8 | 97.6 | 85.6 | 79.5 | 78.4 | 95.4 | 87.2 | 86.8 |
| IL23A | 123.4 | 140.9 | 131.5 | 121.5 | 116.5 | 141.5 | 110.8 | 141.5 |
| IL23R | 90 | 94.1 | 94.4 | 90.5 | 83.4 | 86 | 99.9 | 88.5 |
| IL24 | 77.1 | 101.4 | 79.7 | 83.1 | 80.2 | 79.8 | 88.1 | 92.8 |
| IL24 | 75.4 | 75.8 | 87.1 | 83.4 | 87.6 | 92.2 | 81 | 87.2 |
| IL24 | 97.4 | 118.9 | 88.3 | 86.2 | 80.8 | 87.9 | 92.8 | 90.9 |
| IL25 | 90.8 | 104.9 | 96.4 | 91.9 | 94.3 | 87.7 | 87.3 | 102.3 |
| IL25 | 110.7 | 123.5 | 79.2 | 91.4 | 81.2 | 84.6 | 109.6 | 120.9 |
| IL26 | 85.1 | 86 | 93.3 | 85.4 | 94.6 | 90.9 | 80.5 | 83.9 |
| IL27 | 85 | 90.2 | 86 | 87.7 | 78.7 | 77.9 | 90.2 | 88.5 |
| IL27RA | 754.6 | 801.3 | 736.1 | 430.3 | 319.5 | 368 | 846.3 | 1895 |
| IL28A | 84 | 85.8 | 94 | 86.5 | 84.2 | 86.2 | 91.6 | 100.7 |
| IL28B | 102.6 | 109.8 | 96.5 | 85.2 | 90.4 | 89.8 | 97.4 | 103.5 |
| IL28RA | 81.9 | 105.3 | 92.6 | 83.7 | 81.7 | 92.9 | 95.6 | 97.3 |
| IL29 | 103.4 | 117.5 | 86.1 | 84.9 | 78.9 | 86.4 | 97.5 | 104.1 |
| IL2RA | 112.1 | 125.6 | 85.8 | 89.4 | 87.9 | 85.5 | 96 | 136.1 |
| IL2RB | 212.3 | 250.1 | 178.2 | 155.1 | 123.2 | 151.9 | 163.4 | 217.3 |
| IL2RG | 79.9 | 88.1 | 94.1 | 90.9 | 81.2 | 78.7 | 88.7 | 84.9 |
| IL3 | 80.7 | 84.8 | 86.6 | 87.8 | 93.3 | 87.6 | 79 | 86.4 |
| IL31 | 93.7 | 86.3 | 82.4 | 74.4 | 81.9 | 85.3 | 88.3 | 98.3 |
| IL31RA | 90 | 99.5 | 102.5 | 93 | 91.3 | 95.7 | 85 | 92.5 |
| IL32 | 129.6 | 145.9 | 91 | 92.6 | 78.4 | 86.3 | 116.5 | 146.2 |
| IL32 | 86.4 | 101.1 | 97.5 | 106.5 | 86.9 | 103.8 | 85.8 | 90.7 |
| IL33 | 78.1 | 104.8 | 94.1 | 96.1 | 84.5 | 85.8 | 80.2 | 87.8 |
| IL3RA | 155.5 | 204.7 | 138.1 | 133.1 | 108.3 | 116.5 | 156.4 | 181 |
| IL4 | 80.4 | 83.8 | 94.9 | 84.7 | 82.2 | 78.9 | 77.9 | 83.4 |
| IL4 | 93.5 | 103.3 | 99.7 | 95.4 | 95 | 96.4 | 86.8 | 105.5 |
| IL4I1 | 111.9 | 124.7 | 103.7 | 112.9 | 139.5 | 108.4 | 114.9 | 131.4 |

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|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| IL4I1 | 79.2 | 89.9 | 91.6 | 80.9 | 83.9 | 89.4 | 86.9 | 93.3 |
| IL4R | 87.3 | 99.1 | 100 | 101 | 93.2 | 97.3 | 83.4 | 88.3 |
| IL4R | 270 | 343.8 | 177.4 | 164.5 | 121.6 | 142.6 | 240.7 | 329.4 |
| IL5 | 81.9 | 89.5 | 95.6 | 96.2 | 80.7 | 84.3 | 83.1 | 92.9 |
| IL5RA | 132.9 | 156.8 | 123 | 115.4 | 119.7 | 108.8 | 113.9 | 144.4 |
| IL5RA | 118.1 | 141.9 | 92 | 88.9 | 88.8 | 91.9 | 114.6 | 99 |
| IL6 | 103.3 | 123.9 | 93.1 | 89.8 | 88 | 88.9 | 106.2 | 127.7 |
| IL6R | 289.3 | 387.5 | 214.4 | 263.8 | 266.5 | 234 | 217.7 | 268.7 |
| IL6R | 634.1 | 965.6 | 405.5 | 366.3 | 339.8 | 343.7 | 540.2 | 649.9 |
| IL6ST | 77.8 | 94 | 84.7 | 83.8 | 102.6 | 90.2 | 84.1 | 82.3 |
| IL6ST | 102.5 | 116.6 | 97.1 | 96.2 | 88 | 90.8 | 102.3 | 138.1 |
| IL7 | 73.7 | 83.4 | 99.9 | 81.8 | 78.8 | 87.9 | 72.2 | 81.1 |
| IL7R | 99.1 | 118.8 | 108.1 | 80.3 | 99.1 | 83.7 | 119.6 | 129 |
| IL8 | 556.5 | 644.7 | 369.4 | 579.4 | 519.4 | 625.8 | 1063 | 2361.4 |
| IL8RA | 101.3 | 134.1 | 97.5 | 81.8 | 75.2 | 76.8 | 100 | 132.2 |
| IL8RB | 385.6 | 531.3 | 256.5 | 280 | 245.9 | 275.7 | 355 | 386.6 |
| IL9 | 94.2 | 109 | 93.3 | 87.7 | 90.1 | 86.7 | 103 | 100.7 |
| IL9R | 74.4 | 78.2 | 93.6 | 80.6 | 85.4 | 89.5 | 83.3 | 91 |
| ILDR1 | 98 | 114 | 96.6 | 92.9 | 81.3 | 91.7 | 108.1 | 103.4 |
| ILF2 | 7862.4 | 11219.3 | 5416.2 | 3770.5 | 3064.7 | 5965.2 | 5910.9 | 8725.7 |
| ILF3 | 667.7 | 784.8 | 745.1 | 638.4 | 531.6 | 958.3 | 564.6 | 1054.2 |
| ILF3 | 207.3 | 295.7 | 124.4 | 117 | 90.6 | 99.9 | 176.3 | 242 |
| ILF3 | 1170.1 | 1742.6 | 972.2 | 649.7 | 542.8 | 1021.1 | 767.4 | 1215 |
| ILK | 79.5 | 93.1 | 96.5 | 89.1 | 82.4 | 92.9 | 85.8 | 96.4 |
| ILK | 2969.4 | 3926.6 | 1890.1 | 1534.4 | 1447.9 | 1831.5 | 2434.9 | 3508.9 |
| ILK | 278.6 | 330.4 | 141.3 | 121.1 | 127.5 | 156.5 | 275.6 | 397.5 |
| ILKAP | 825.3 | 983 | 446.2 | 427.6 | 331.9 | 491 | 691.1 | 748.2 |
| ILKAP | 91.6 | 97.2 | 95.2 | 87.9 | 92.7 | 96.7 | 83.1 | 100.5 |
| ILVBL | 834.4 | 1057.9 | 543.4 | 356.9 | 321 | 418.8 | 688.2 | 1027.3 |
| ILVBL | 1330.4 | 1733.4 | 958.6 | 772.9 | 660.7 | 821.8 | 1131.7 | 943.3 |
| IMAA | 121.2 | 127.8 | 100.5 | 106.6 | 105.5 | 87.7 | 105.3 | 108.8 |
| IMAA | 28995.5 | 27083.3 | 26964.2 | 34250.2 | 33390.9 | 28596.1 | 28551.4 | 29995.1 |
| IMMP2L | 453.5 | 566.9 | 296.2 | 368.9 | 311 | 433.3 | 394.1 | 571 |
| IMMT | 2053 | 2394.8 | 670.5 | 725.7 | 545.9 | 968.2 | 1647.2 | 3091.6 |
| IMP3 | 5543.9 | 6832.1 | 3874.6 | 3302.5 | 2275.2 | 3534.8 | 4770.4 | 5443.8 |
| IMP4 | 4514.1 | 6071.8 | 3335.9 | 2276.7 | 1525.4 | 2231.4 | 3480.3 | 3057.6 |
| IMP5 | 118.9 | 145.4 | 101.5 | 88.3 | 83.1 | 89.7 | 109.8 | 138.8 |
| IMPA1 | 1563.2 | 1691.9 | 453.2 | 372 | 332.8 | 544.7 | 1318.9 | 2218.5 |
| IMPA2 | 1260.1 | 1582.4 | 1353.7 | 1570.4 | 1387.1 | 1772.6 | 1294.7 | 1983.6 |
| IMPACT | 119.9 | 182.3 | 126.1 | 112.9 | 115.4 | 136.3 | 107.6 | 131.2 |
| IMPAD1 | 889.1 | 1210.8 | 379.2 | 307.5 | 243.7 | 341.9 | 787.5 | 1049.4 |
| IMPDH1 | 2403.3 | 2873.6 | 2104.9 | 1664.9 | 1423 | 1674.9 | 2073.1 | 2163.2 |
| IMPDH1 | 118.8 | 127.4 | 102 | 86.3 | 90.2 | 91.2 | 108 | 129.4 |
| IMPDH1 | 98.6 | 119 | 81.6 | 80.7 | 79.6 | 81.5 | 106.2 | 128.8 |
| IMPDH2 | 5507.7 | 6900.3 | 3516.2 | 2465.8 | 1691.4 | 2503.4 | 4292.1 | 6490.5 |
| IMPG1 | 79.4 | 89.3 | 84.1 | 87 | 78.9 | 102.1 | 84.2 | 90.2 |
| IMPG2 | 133.5 | 148.2 | 128.5 | 122.4 | 113.6 | 117.9 | 134.2 | 143.6 |
| INA | 97.7 | 115.3 | 111.1 | 96.9 | 98.3 | 96.5 | 110.1 | 110.6 |
| INADL | 156.3 | 205.8 | 96.4 | 83.3 | 82 | 82.4 | 132 | 151.4 |
| INADL | 90.7 | 94.6 | 108.1 | 79.4 | 91.6 | 89.8 | 90.8 | 109.4 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| INCA | 85.8 | 102.7 | 99.6 | 93.5 | 87.1 | 96 | 93 | 93.5 |
| INCA1 | 95.3 | 90.5 | 83.9 | 78 | 76.4 | 78.4 | 82.9 | 100.4 |
| INCENP | 483.9 | 518.2 | 339.5 | 369.1 | 317.9 | 299.5 | 352.3 | 403.6 |
| INDO | 66.1 | 88.7 | 95.1 | 89.8 | 97.7 | 79 | 76.2 | 80.5 |
| ING1 | 82.9 | 93.8 | 88.9 | 91.3 | 93.8 | 85.1 | 86.6 | 95.3 |
| ING1 | 313 | 447.2 | 297.8 | 286.6 | 218.2 | 365.3 | 254.1 | 460.7 |
| ING1 | 135.6 | 145.7 | 96.9 | 81.4 | 77.9 | 90 | 114.9 | 122 |
| ING1 | 88.7 | 114.8 | 78.7 | 80.7 | 74.9 | 85.8 | 102.5 | 114.4 |
| ING2 | 735.6 | 970.6 | 353.9 | 332.6 | 220.8 | 348.1 | 743.3 | 1397.4 |
| ING3 | 358.5 | 482 | 219.4 | 219.9 | 192.5 | 203.9 | 272.7 | 304.9 |
| ING3 | 113.3 | 116.3 | 106.3 | 85.6 | 80.8 | 95.3 | 103.1 | 125.1 |
| ING3 | 993.9 | 1223.6 | 924.7 | 1021.5 | 829.6 | 1280.7 | 839.1 | 1438.4 |
| ING4 | 149.7 | 174.9 | 118.9 | 118.6 | 102.5 | 112.8 | 145.4 | 179.3 |
| ING5 | 137.7 | 202.6 | 102.9 | 103.4 | 93.3 | 103.5 | 125.5 | 163 |
| ING5 | 81.1 | 94.3 | 106.6 | 93.3 | 82.9 | 81.3 | 90.4 | 99.9 |
| INGX | 112.1 | 113 | 110.8 | 91.6 | 87.3 | 83.6 | 107 | 107.2 |
| INHA | 85.5 | 93 | 84.7 | 81.4 | 75 | 81.4 | 90 | 98.5 |
| INHBA | 94.6 | 108.3 | 87.8 | 90.8 | 78.2 | 96.6 | 98.5 | 105.3 |
| INHBB | 126.7 | 146.7 | 112.7 | 102.3 | 90.4 | 104.3 | 131.7 | 138.8 |
| INHBC | 82.2 | 100.4 | 93.1 | 77.1 | 80.4 | 83.6 | 84.7 | 92 |
| INHBE | 126.6 | 164.6 | 99.5 | 104.3 | 90.8 | 93.6 | 134.4 | 153.3 |
| INMT | 84.6 | 98.6 | 78.9 | 85.5 | 89.6 | 71.1 | 77.4 | 93.8 |
| INOC1 | 126.7 | 167 | 90.3 | 80.2 | 80.5 | 95.9 | 133.5 | 144.9 |
| INOC1 | 238 | 325.6 | 242.6 | 256.1 | 224.2 | 317.4 | 241.1 | 357.1 |
| INPP1 | 1447.9 | 1810.1 | 804.7 | 510.5 | 470.1 | 575.8 | 1304.1 | 1211.4 |
| INPP4A | 69 | 77.3 | 83.9 | 73.6 | 76.5 | 77.9 | 63.7 | 87.1 |
| INPP4A | 127.3 | 153.6 | 113.5 | 116.8 | 96 | 139.5 | 112.8 | 129.5 |
| INPP4A | 109.1 | 137.8 | 81.4 | 85.3 | 85.1 | 87.5 | 117.4 | 119.8 |
| INPP4B | 495.7 | 606.7 | 306.1 | 303 | 218.3 | 418.2 | 371.7 | 687.9 |
| INPP5A | 298.2 | 387.2 | 223.2 | 192.8 | 172.7 | 233.5 | 308.7 | 679.6 |
| INPP5B | 265.2 | 334.5 | 218.6 | 228.2 | 192.5 | 222.4 | 246.5 | 306.6 |
| INPP5D | 664.5 | 814.8 | 499.2 | 407.5 | 364.4 | 399.8 | 557 | 765.3 |
| INPP5E | 428.3 | 390.3 | 317.9 | 285.7 | 269.8 | 315 | 323.7 | 759.3 |
| INPP5F | 96.8 | 95.7 | 73 | 76.6 | 75 | 78.7 | 96.6 | 95.6 |
| INPP5F | 104.7 | 121.1 | 107.3 | 103.2 | 92.8 | 96.5 | 107.3 | 101.3 |
| INPP5F | 168.5 | 170.8 | 164.7 | 148.6 | 161.4 | 151.7 | 150.8 | 181.5 |
| INPPL1 | 1421.8 | 1760 | 1729.5 | 1351.4 | 1352.1 | 1947 | 1277.4 | 1075.8 |
| INS | 135.7 | 149.3 | 96 | 89.2 | 91.3 | 92.3 | 125.8 | 123.4 |
| INSC | 115.6 | 132.5 | 97.6 | 94.8 | 74.3 | 86.1 | 122.3 | 132.8 |
| INSIG1 | 322.2 | 422.4 | 202.3 | 280.8 | 263.7 | 228.7 | 285.9 | 715.3 |
| INSIG2 | 327.5 | 495.5 | 298.4 | 345.2 | 271.7 | 431.3 | 318.2 | 541 |
| INS-IGF2 | 82.8 | 87.7 | 85.3 | 87.5 | 85.2 | 90.6 | 87 | 92.9 |
| INS-IGF2 | 73.3 | 87.4 | 78.5 | 82.8 | 83.8 | 77.3 | 83.2 | 85 |
| INSL3 | 72 | 75.8 | 87.7 | 78.2 | 75.5 | 83.1 | 80.8 | 75.5 |
| INSL4 | 86.2 | 99.9 | 91.6 | 84.1 | 85.5 | 98.4 | 88.5 | 88.3 |
| INSL5 | 116.8 | 126.8 | 102.9 | 92 | 85 | 79.8 | 100.2 | 117.7 |
| INSL6 | 76.3 | 87.5 | 90.3 | 85.8 | 75.7 | 88.6 | 87.2 | 83 |
| INSM1 | 145.2 | 160.7 | 98.7 | 97.9 | 105.4 | 94.9 | 131.4 | 153.2 |
| INSM2 | 81.9 | 86 | 83.4 | 86.7 | 82.5 | 84.2 | 85.2 | 86 |
| INSR | 141 | 170.4 | 109.5 | 93.6 | 94.3 | 88.7 | 122.2 | 163.5 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| INSRR | 121.4 | 151.2 | 87.8 | 87.2 | 81.8 | 83.5 | 130 | 134.4 |
| INT1 | 157.8 | 214.9 | 215.4 | 214.4 | 198.2 | 280.8 | 158.6 | 234.7 |
| INT4 | 447.5 | 601.7 | 321.2 | 331.2 | 288.6 | 400.6 | 379.3 | 520.1 |
| INTS1 | 653.2 | 757.9 | 452.2 | 484.7 | 429.5 | 508.2 | 473.9 | 367.7 |
| INTS6 | 132.7 | 141.6 | 102.2 | 92.5 | 95.7 | 96.3 | 105 | 130 |
| INTU | 146.3 | 140.5 | 113.1 | 102.2 | 82.7 | 147.6 | 113 | 142.7 |
| INVS | 110.5 | 154.6 | 109 | 103.5 | 84 | 133.9 | 99.7 | 132.8 |
| INVS | 353.4 | 476.4 | 428.3 | 326.7 | 274.7 | 501.6 | 331.7 | 498.3 |
| INVS | 124.6 | 153.4 | 108.9 | 108.7 | 99.2 | 102.8 | 113.4 | 129 |
| IPF1 | 108.7 | 122.3 | 106.3 | 94.2 | 85.4 | 86 | 105.1 | 112 |
| IPMK | 108.3 | 132.9 | 90.5 | 92.7 | 81 | 87.8 | 140.4 | 140.7 |
| IPO11 | 976.4 | 1101.7 | 891.3 | 1036.4 | 731.6 | 1133 | 651.6 | 760.4 |
| IPO13 | 174.2 | 218.4 | 171.2 | 185.1 | 135.8 | 205.1 | 149.8 | 247.6 |
| IPO4 | 243.9 | 319.1 | 311.2 | 215.3 | 173.3 | 295.6 | 196.4 | 265.3 |
| IPO7 | 428.4 | 544.8 | 242.8 | 304.5 | 231 | 268.2 | 313.4 | 408.9 |
| IPO8 | 194.4 | 260.3 | 139.3 | 168.7 | 131.6 | 177.7 | 169.2 | 215.4 |
| IPO9 | 554.5 | 670.2 | 364.8 | 376.8 | 290.9 | 455.7 | 418.2 | 680.8 |
| IPP | 170.8 | 201.6 | 105.3 | 109.2 | 108.4 | 100.9 | 144.9 | 198.7 |
| IPPK | 115.1 | 159.8 | 109.6 | 98.3 | 90.9 | 92.3 | 121.6 | 147.1 |
| IQCA | 75.8 | 83.5 | 95 | 86.5 | 84.6 | 78.8 | 73.4 | 79.3 |
| IQCB1 | 114.6 | 128.4 | 100.5 | 85.3 | 77.2 | 106.9 | 115.8 | 132 |
| IQCB1 | 885.6 | 1123.4 | 427.6 | 408.9 | 418.1 | 848 | 575.6 | 825.3 |
| IQCC | 284.2 | 359 | 143.9 | 116.4 | 115 | 120.2 | 197.8 | 212.3 |
| IQCD | 117.7 | 136.7 | 127.8 | 128.9 | 117.5 | 157.2 | 99.6 | 104.7 |
| IQCE | 98.3 | 114 | 122.2 | 109 | 111.4 | 127.6 | 103.5 | 120.4 |
| IQCF1 | 70.4 | 90.8 | 88.2 | 76.6 | 74.1 | 85.9 | 83 | 92.7 |
| IQCF2 | 76.3 | 88.4 | 95 | 88.4 | 98.1 | 95.1 | 90.1 | 92.2 |
| IQCG | 141.9 | 150.8 | 101.7 | 86.6 | 91.7 | 94.6 | 120.1 | 150.9 |
| IQCH | 74.3 | 79.4 | 86.2 | 82.3 | 82.2 | 88 | 76.8 | 78.4 |
| IQCH | 104.9 | 111.6 | 105.5 | 86.4 | 87.8 | 93.2 | 108.4 | 113.5 |
| IQCK | 329.3 | 412 | 200.1 | 158.5 | 123.7 | 147.1 | 263.9 | 361.4 |
| IQGAP1 | 685.9 | 1033.2 | 353.5 | 477.5 | 350.7 | 826.9 | 750.8 | 1987.2 |
| IQGAP2 | 116.7 | 139.1 | 119.3 | 105 | 113.1 | 129.8 | 109.5 | 131.2 |
| IQGAP3 | 135.1 | 153.9 | 128.3 | 132.4 | 118.4 | 128.3 | 130.7 | 121.9 |
| IQSEC1 | 168.5 | 209.6 | 154.7 | 242.2 | 187 | 266.4 | 154.6 | 195.1 |
| IQSEC2 | 118.7 | 123 | 112.1 | 98.3 | 102.3 | 108.1 | 112.3 | 126.8 |
| IQSEC3 | 110.7 | 121.9 | 85.7 | 88.7 | 78.3 | 85.2 | 114.9 | 122.9 |
| IQWD1 | 1183.8 | 1564.1 | 896.9 | 894.9 | 879.9 | 1355.7 | 1069.3 | 1990.2 |
| IQWD1 | 147.4 | 182.4 | 122.9 | 102.9 | 108.6 | 111.6 | 113 | 152.1 |
| IQWD1 | 141.6 | 181.9 | 100.5 | 103.2 | 112.2 | 127.4 | 142.8 | 261.2 |
| IRAK1 | 1792 | 1987.9 | 1346.2 | 1153.3 | 1145.1 | 2010.2 | 1599.2 | 3732.1 |
| IRAK1BP1 | 298.1 | 358.1 | 187.6 | 185.5 | 131.2 | 181.6 | 230.6 | 336.6 |
| IRAK2 | 186.7 | 245.4 | 153.8 | 132.2 | 133.5 | 143.4 | 201.2 | 237.5 |
| IRAK3 | 1031.1 | 1364.5 | 687.4 | 855.7 | 697.6 | 1440.4 | 1094.9 | 1592.5 |
| IRAK4 | 271.3 | 357.7 | 207.6 | 161.9 | 158.2 | 186.2 | 216.1 | 308.1 |
| IREB2 | 851.7 | 1214.1 | 532.7 | 612 | 473.8 | 621.7 | 752.4 | 946.9 |
| IRF1 | 515.5 | 636.4 | 385.9 | 320.5 | 329 | 251.7 | 588.8 | 559.7 |
| IRF2 | 82.6 | 92.5 | 89.4 | 89.7 | 78.5 | 92.7 | 92.5 | 108.4 |
| IRF2BP1 | 119.9 | 158 | 157.6 | 128.3 | 134 | 178.4 | 127.9 | 160.3 |
| IRF2BP2 | 1209.2 | 1871.9 | 937.4 | 1351.6 | 939.8 | 1573.1 | 1096.6 | 1643.5 |

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|---------|---------|---------|---------|---------|--------|---------|---------|---------|
| IRF2BP2 | 772.4 | 912.9 | 751.5 | 941 | 820 | 1038.1 | 793.2 | 1168.1 |
| IRF3 | 384.4 | 441.5 | 399 | 268 | 244 | 360.9 | 343.7 | 521 |
| IRF4 | 157.9 | 164.5 | 95.5 | 79.1 | 78.3 | 85 | 139.9 | 190 |
| IRF5 | 1207.4 | 1382.8 | 709.7 | 629 | 662.6 | 722.2 | 960.4 | 644.9 |
| IRF6 | 89.4 | 103 | 84.7 | 82.6 | 82.3 | 78 | 95.3 | 96.9 |
| IRF7 | 125.3 | 135.7 | 136.5 | 93.9 | 91.7 | 112.7 | 122.4 | 161.5 |
| IRF7 | 90.4 | 112.9 | 98.1 | 97.2 | 88.2 | 93.5 | 98 | 99.7 |
| IRF7 | 380.6 | 440.5 | 280.9 | 204.6 | 220.2 | 222 | 317.7 | 292.4 |
| IRF8 | 17805.8 | 20287.3 | 13073.2 | 11602.3 | 9073.9 | 14317.7 | 12753.9 | 11117.3 |
| IRGC | 87.3 | 103.3 | 88.9 | 80.2 | 85.3 | 90.7 | 91.4 | 106 |
| IRGQ | 68.8 | 74.4 | 89.4 | 87.2 | 81.1 | 84.2 | 75.9 | 81.6 |
| IRS1 | 94.5 | 113.4 | 89.6 | 92.1 | 83.5 | 101.8 | 101.9 | 105.6 |
| IRS2 | 540.3 | 753.3 | 475.2 | 518.3 | 441.2 | 772.2 | 395.4 | 797.4 |
| IRS4 | 114 | 142.2 | 101.1 | 104.6 | 98.1 | 100 | 112.7 | 117.7 |
| IRX1 | 149.2 | 165.2 | 111.7 | 103.1 | 97.3 | 92.4 | 146.3 | 161.5 |
| IRX2 | 91.8 | 105.8 | 90.6 | 89.2 | 79.6 | 87.1 | 91.6 | 94.7 |
| IRX3 | 13741.4 | 16575.9 | 13311.1 | 8813.2 | 8109.7 | 6536.4 | 10147.3 | 10551.9 |
| IRX4 | 100.7 | 118.5 | 111.5 | 109.2 | 93.9 | 109.5 | 104.7 | 112.3 |
| IRX5 | 532.5 | 700.1 | 210.5 | 210.9 | 143.1 | 168.1 | 432 | 495.5 |
| IRX6 | 127.6 | 149.6 | 109.6 | 96.8 | 86.8 | 91.1 | 108.2 | 138 |
| IRXL1 | 74.5 | 95.7 | 79.6 | 82 | 75.9 | 71.7 | 72.6 | 90.3 |
| ISCA1 | 411.9 | 548.1 | 140.1 | 138.8 | 115.6 | 197.5 | 404.1 | 935 |
| ISCA2 | 397.1 | 508.8 | 300.5 | 247.5 | 196 | 249 | 337.4 | 440 |
| ISCU | 1676.1 | 2097.5 | 1313.6 | 1044.6 | 918 | 1042.7 | 1470 | 1704.6 |
| ISG15 | 370.3 | 385.3 | 233.2 | 193.6 | 169.1 | 203.1 | 334.8 | 318.6 |
| ISG20 | 184.8 | 223.6 | 132.2 | 112 | 111.8 | 124.3 | 195.1 | 213.2 |
| ISG20L1 | 1027.6 | 1133.4 | 565.9 | 492.5 | 323.2 | 468.8 | 735.1 | 800.6 |
| ISG20L2 | 1547.5 | 1908.3 | 1127.7 | 761.7 | 513.5 | 626.3 | 1309.6 | 2205.2 |
| ISGF3G | 717.4 | 868 | 498.6 | 327.4 | 307.9 | 402 | 732.2 | 1216.2 |
| ISL2 | 191.9 | 239.2 | 122.9 | 100 | 95.1 | 107.4 | 184.6 | 243.4 |
| ISLR | 88.9 | 108.6 | 87.3 | 79.3 | 78.3 | 76.1 | 86 | 92.5 |
| ISLR | 81.1 | 84.7 | 92.9 | 92.1 | 78.2 | 85 | 90.5 | 84.1 |
| ISLR | 99.3 | 110.3 | 93.9 | 88.9 | 88.6 | 86.4 | 97.3 | 97.8 |
| ISLR2 | 91.9 | 102 | 103.9 | 90.4 | 86.5 | 85.8 | 94.1 | 103.9 |
| ISOC1 | 648.7 | 833.4 | 299.8 | 252.4 | 248.8 | 320.2 | 510.1 | 912.6 |
| ISOC2 | 1040.2 | 1287.7 | 317.7 | 360.9 | 213.8 | 350.8 | 827.6 | 1350.7 |
| ISYNA1 | 113 | 128.7 | 114.6 | 117.9 | 98.8 | 119.1 | 110.1 | 134.6 |
| ITCH | 313.1 | 391.1 | 231.5 | 316.6 | 258.8 | 331.1 | 286.1 | 434.4 |
| ITFG1 | 101.2 | 117.6 | 90.6 | 94.1 | 81.9 | 81.5 | 96 | 109.9 |
| ITGA1 | 88.2 | 94 | 85 | 77.7 | 82.2 | 81.5 | 85.4 | 91.6 |
| ITGA10 | 92 | 101.1 | 100.3 | 108.7 | 109.1 | 104.9 | 94.6 | 100.2 |
| ITGA11 | 81.6 | 91.3 | 108.7 | 107.9 | 102.2 | 112.5 | 92.9 | 99.5 |
| ITGA11 | 101 | 116.7 | 112.4 | 103.7 | 90.2 | 111.2 | 101.5 | 119 |
| ITGA2 | 169.3 | 216.7 | 106.4 | 98.3 | 94.3 | 95.7 | 144.1 | 186.1 |
| ITGA2B | 106.3 | 120.5 | 86.4 | 71.4 | 79 | 89.3 | 101.1 | 117.7 |
| ITGA3 | 111.8 | 153.9 | 96.9 | 100.8 | 88.8 | 99.2 | 112.4 | 116.1 |
| ITGA3 | 333.9 | 376.4 | 196.9 | 207.7 | 156.1 | 204.9 | 361.4 | 359.8 |
| ITGA4 | 384.8 | 530.7 | 249.1 | 309.6 | 267.4 | 486.1 | 287.1 | 473.4 |
| ITGA5 | 567.4 | 737.3 | 434.5 | 446.5 | 400.7 | 481.4 | 536.6 | 691.4 |
| ITGA6 | 107.4 | 140.3 | 98.8 | 90.7 | 85 | 94.4 | 105.5 | 136.1 |

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|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| ITGA6 | 81 | 79.1 | 93 | 78.3 | 82.5 | 87 | 73.4 | 86.3 |
| ITGA7 | 108.8 | 129.4 | 103.7 | 114.9 | 101.6 | 110.7 | 104 | 105.5 |
| ITGA8 | 70.8 | 81.9 | 93.2 | 79.7 | 84 | 77.7 | 69.7 | 74.2 |
| ITGAD | 105.5 | 126.2 | 93.7 | 86.1 | 81.7 | 83 | 98.8 | 124 |
| ITGAE | 964.6 | 1123 | 366.5 | 345.7 | 281.7 | 414.2 | 1089.8 | 1598.4 |
| ITGAL | 633.4 | 771.8 | 688.6 | 386 | 310.9 | 493.1 | 566.6 | 1218.4 |
| ITGAM | 290 | 297.7 | 211 | 486.9 | 390.7 | 607.7 | 209.5 | 434.4 |
| ITGAV | 255.9 | 314.5 | 168.7 | 186.3 | 166.8 | 304 | 265 | 546.4 |
| ITGAX | 195 | 198.9 | 239.6 | 301.5 | 293.5 | 385.2 | 180.3 | 267.4 |
| ITGAX | 82.9 | 101.8 | 100.7 | 100.1 | 95.8 | 95.1 | 89.1 | 99.9 |
| ITGB1 | 731.7 | 1178.2 | 431.4 | 347.7 | 297.6 | 552.8 | 596 | 752.6 |
| ITGB1 | 2905.9 | 3870.4 | 1296.7 | 1487.3 | 1319.2 | 2363.7 | 2985.2 | 4001.9 |
| ITGB1 | 1417.4 | 2139.7 | 882.2 | 824.4 | 668.5 | 1432.2 | 1219.5 | 1659.5 |
| ITGB1 | 98.9 | 115.6 | 100.6 | 99 | 89.9 | 89.8 | 97.5 | 100.9 |
| ITGB1 | 110.1 | 113.1 | 98.9 | 72.5 | 81.6 | 85.8 | 95.6 | 111.5 |
| ITGB1 | 77.7 | 81.5 | 89.1 | 96 | 87.6 | 89.7 | 89.4 | 79.6 |
| ITGB1BP1 | 125.1 | 144.7 | 118.3 | 98.4 | 84.9 | 101.8 | 96.9 | 136.2 |
| ITGB1BP1 | 2687.2 | 3035.6 | 922.6 | 701.1 | 562.9 | 703.6 | 2370.2 | 3625.5 |
| ITGB1BP2 | 120.6 | 155.8 | 105.3 | 106.1 | 90.4 | 101.4 | 121.7 | 135.3 |
| ITGB1BP3 | 141.6 | 169.9 | 99 | 102.9 | 94.8 | 90.9 | 145.6 | 130.2 |
| ITGB1BP3 | 83.6 | 99 | 97.1 | 97.1 | 80.3 | 90.5 | 90.4 | 96.2 |
| ITGB2 | 17389.2 | 20645 | 17616 | 25831.6 | 23029.2 | 25459.5 | 15292.6 | 18598 |
| ITGB3 | 101.1 | 106.6 | 90.3 | 94.3 | 89.6 | 85.4 | 102.7 | 94.5 |
| ITGB3BP | 691.7 | 814.3 | 320 | 328.4 | 217.1 | 359.7 | 679.4 | 934.9 |
| ITGB4 | 90 | 88.9 | 107 | 96.9 | 100.8 | 96.4 | 88.4 | 93.5 |
| ITGB4 | 86.8 | 94.3 | 80.8 | 80.9 | 88 | 84.1 | 83.8 | 84.5 |
| ITGB4 | 95 | 120.7 | 97.1 | 102.9 | 86 | 82 | 91.3 | 103.4 |
| ITGB4 | 109.6 | 125.4 | 93.6 | 85.6 | 80.2 | 83.2 | 106.5 | 124.3 |
| ITGB4BP | 2319.6 | 2724.6 | 1620.3 | 1205.6 | 935.2 | 1340.9 | 2104.5 | 2812.7 |
| ITGB4BP | 133.5 | 150.9 | 90.9 | 81.6 | 79.1 | 88.4 | 112.1 | 137.7 |
| ITGB4BP | 3967 | 5398.9 | 3086.3 | 1782.3 | 1223.1 | 1993.6 | 3858.9 | 4424.4 |
| ITGB5 | 438.9 | 593 | 218.1 | 143.8 | 128 | 142.4 | 399.9 | 489 |
| ITGB5 | 655.9 | 915.8 | 604.7 | 291.1 | 257.2 | 335.4 | 578 | 701.5 |
| ITGB6 | 101.5 | 113.2 | 84.3 | 86 | 83 | 80.4 | 98.4 | 106.6 |
| ITGB7 | 415.1 | 564.5 | 528.1 | 809.4 | 585.7 | 1307.5 | 344.3 | 562.1 |
| ITGB8 | 109.1 | 107.4 | 91.5 | 92.3 | 89.6 | 87.1 | 102.1 | 101.3 |
| ITGBL1 | 123.3 | 146.2 | 93.1 | 77.4 | 83.6 | 100.7 | 128.4 | 126.4 |
| ITIH1 | 110 | 122.3 | 96.2 | 96.3 | 80 | 92.5 | 104.8 | 127.8 |
| ITIH2 | 92 | 114 | 94 | 76.5 | 74.9 | 87 | 99.5 | 96.5 |
| ITIH3 | 126.9 | 146.7 | 97.5 | 84 | 79.4 | 79.3 | 115.2 | 145.1 |
| ITIH4 | 87.7 | 101.9 | 84.8 | 89 | 96.7 | 105.4 | 90 | 106.6 |
| ITIH5 | 97.2 | 99.9 | 87.6 | 81.3 | 86.6 | 87.1 | 81 | 89 |
| ITIH5 | 25800.1 | 25432.9 | 12767.1 | 19777.5 | 17199 | 14843.8 | 23210.1 | 26492.1 |
| ITIH5 | 111.8 | 125.3 | 96.2 | 81.5 | 77.9 | 96.2 | 109.7 | 113.7 |
| ITIH5 | 83.3 | 90.6 | 100.2 | 94.7 | 91.9 | 95.3 | 79.2 | 85.2 |
| ITIH5L | 75.4 | 87.4 | 88.5 | 86.9 | 77 | 82.2 | 84 | 83 |
| ITK | 100.6 | 126.7 | 103.3 | 103.9 | 105.9 | 102.8 | 90.5 | 103.9 |
| ITLN1 | 85.3 | 93.4 | 120.5 | 103.1 | 102.5 | 109.8 | 86.8 | 87.9 |
| ITLN2 | 103.6 | 110.5 | 83.3 | 89.9 | 89.3 | 84.9 | 99.4 | 96.6 |
| ITM2A | 97.1 | 107.1 | 103.9 | 89.8 | 87 | 96.7 | 96.9 | 102 |

| | | | | | | | | |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| ITM2B | 79.9 | 84.7 | 92.2 | 85.9 | 78.8 | 85.7 | 84.6 | 101.7 |
| ITM2C | 1803.7 | 2293.2 | 1453.1 | 2229.5 | 2016.9 | 3039.6 | 1725.7 | 3087.6 |
| ITM2C | 2321.6 | 3494.6 | 2084.5 | 3736.5 | 3270 | 4949.9 | 2200.8 | 2936.6 |
| ITPA | 585.6 | 760.9 | 311.7 | 247.2 | 197.2 | 268.2 | 463.5 | 579.2 |
| ITPA | 590.3 | 773.3 | 361.2 | 389.8 | 294.2 | 386.1 | 536.4 | 547.7 |
| ITPK1 | 194.5 | 224.6 | 178 | 210.6 | 169.5 | 302.2 | 172.6 | 279.7 |
| ITPKA | 371.2 | 489.4 | 275.3 | 326 | 395 | 376.5 | 386.5 | 323.9 |
| ITPKB | 261.2 | 334.3 | 242.4 | 202.5 | 177.7 | 238.6 | 235.9 | 338.5 |
| ITPKC | 106.9 | 127.4 | 111.5 | 88.8 | 102.1 | 91.6 | 119.9 | 152.6 |
| ITPR1 | 777.8 | 1381.4 | 686.2 | 1218.5 | 892.6 | 2009.1 | 765.2 | 1672.4 |
| ITPR2 | 117.3 | 150.9 | 117.8 | 135.4 | 115.4 | 147.5 | 125.9 | 131.2 |
| ITPR3 | 997.1 | 1164.4 | 1184.1 | 896.2 | 893 | 851.1 | 537.1 | 528.9 |
| ITR | 437.4 | 547.1 | 281.3 | 225.2 | 167.1 | 241.6 | 343.2 | 734.9 |
| ITSN1 | 90.5 | 94 | 106.8 | 93.7 | 91.7 | 98.3 | 82 | 88 |
| ITSN1 | 96.1 | 115.1 | 84.2 | 85.4 | 90.1 | 100.8 | 94.9 | 103.2 |
| ITSN1 | 297.7 | 401.5 | 287.9 | 267.2 | 275.3 | 284.2 | 251.8 | 235.8 |
| ITSN2 | 144.6 | 152.3 | 101.4 | 89.5 | 74.8 | 79.2 | 153.7 | 151.2 |
| ITSN2 | 141.2 | 182.3 | 95.9 | 86.7 | 77.7 | 100.9 | 144.3 | 170.6 |
| IVD | 467.3 | 664 | 297.8 | 319.9 | 238.4 | 341.1 | 332 | 466.7 |
| IVL | 114 | 117 | 88 | 91.6 | 80.8 | 77.4 | 105.5 | 118.1 |
| IVNS1ABP | 518.7 | 665.8 | 334.3 | 347.4 | 245.4 | 552.1 | 324.6 | 519.8 |
| IVNS1ABP | 522 | 575.5 | 244.5 | 330.3 | 232.3 | 460.9 | 391 | 569.6 |
| IVNS1ABP | 144.2 | 163.7 | 110.8 | 95.2 | 99.2 | 98.3 | 126.3 | 139.3 |
| IXL | 685.3 | 791.3 | 383.1 | 385.1 | 315.9 | 356.6 | 586.7 | 576.9 |
| IZUMO1 | 90 | 104.8 | 101.6 | 98.4 | 95.5 | 90.7 | 99.5 | 96.1 |
| JAG1 | 104.2 | 121.7 | 103 | 92.6 | 95.9 | 102.7 | 103.3 | 128.1 |
| JAG2 | 331.5 | 359.3 | 365.8 | 263.3 | 196.8 | 334.4 | 276 | 347.2 |
| JAG2 | 109.8 | 127.4 | 77.6 | 81.1 | 83.9 | 94.5 | 107.9 | 112.8 |
| JAG2 | 178.4 | 226.2 | 233.3 | 135.8 | 126.9 | 172.9 | 149.3 | 185.3 |
| JAK1 | 356.4 | 536.9 | 264 | 233.4 | 200.2 | 325.9 | 307.7 | 451.6 |
| JAK2 | 282.8 | 366.2 | 197.3 | 207.8 | 202.6 | 391.2 | 231.2 | 388.1 |
| JAK3 | 101.1 | 104.5 | 104.9 | 97.7 | 80 | 75.8 | 93.1 | 111.4 |
| JAKMIP1 | 88.7 | 120.5 | 95.7 | 79 | 75.2 | 83.6 | 88.7 | 105.7 |
| JAKMIP2 | 82.1 | 112.8 | 95 | 93.3 | 82.2 | 90.2 | 94.4 | 103.5 |
| JAM2 | 91.2 | 111.8 | 100.4 | 94.7 | 93.1 | 100.5 | 96.3 | 103 |
| JAM3 | 129.7 | 157.6 | 99.8 | 95 | 91.3 | 101.5 | 113.5 | 147.2 |
| JARID1A | 68.6 | 74.7 | 78.3 | 82.3 | 69.5 | 75.4 | 66.1 | 78.7 |
| JARID1B | 564.8 | 747.8 | 559.4 | 760.4 | 618.7 | 1127.9 | 458.7 | 685.3 |
| JARID2 | 711.2 | 830.6 | 535.8 | 758.7 | 616.7 | 1013.6 | 601.1 | 852.8 |
| JAZF1 | 218.8 | 263.4 | 122.3 | 120.2 | 96.2 | 140 | 201.1 | 240 |
| JDP2 | 147 | 202.9 | 118.8 | 96.1 | 80.1 | 105.8 | 146.9 | 189.9 |
| JM11 | 136.4 | 165 | 120.2 | 130.6 | 113.3 | 121.3 | 148.7 | 150.5 |
| JMJD1A | 209.2 | 221.7 | 131.2 | 149 | 145.1 | 237.4 | 203.3 | 434.2 |
| JMJD1B | 373.1 | 534.5 | 328.5 | 457.9 | 414.1 | 691 | 345.4 | 495.6 |
| JMJD1C | 1669.6 | 2158.7 | 787.6 | 1422.1 | 1098.1 | 2154.6 | 1407.8 | 2460.5 |
| JMJD1C | 861.3 | 1431.8 | 584.8 | 764.8 | 628.3 | 1636.2 | 710.8 | 1203.5 |
| JMJD2A | 307.8 | 389 | 241.1 | 269.2 | 223.4 | 327.7 | 265.2 | 291.9 |
| JMJD2B | 91.3 | 108.8 | 94.8 | 78.7 | 82.7 | 89.4 | 94 | 112.7 |
| JMJD2C | 139.6 | 173.6 | 118.5 | 114.7 | 102.2 | 128.7 | 123.9 | 156.7 |
| JMJD2D | 111.9 | 110.8 | 88.1 | 82.2 | 85.8 | 84.7 | 103.8 | 120.5 |

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|-----------|---------|---------|---------|---------|--------|---------|---------|---------|
| JMJD3 | 82.6 | 87 | 85.5 | 82.6 | 79.8 | 88.1 | 76.5 | 82.1 |
| JMJD4 | 276.4 | 366.4 | 267.8 | 229 | 178.1 | 247.3 | 218.3 | 347.6 |
| JMJD5 | 111.3 | 135 | 95.7 | 91.8 | 85.9 | 96.1 | 100.7 | 121.4 |
| JMY | 118.4 | 132.2 | 107 | 94.4 | 91.6 | 116 | 110.1 | 136.9 |
| JOSD1 | 395.8 | 526.6 | 185.8 | 179.2 | 163.9 | 195.7 | 347.5 | 452.7 |
| JOSD2 | 227.7 | 302.3 | 181.7 | 144.5 | 122.3 | 151.8 | 231 | 359.8 |
| JOSD3 | 175 | 190.8 | 127 | 97.7 | 103.5 | 129.6 | 173.1 | 265.1 |
| JOSD3 | 340.9 | 308.3 | 184.5 | 127.1 | 117.3 | 199.8 | 197.6 | 316.4 |
| JPH1 | 176.6 | 194.4 | 158.1 | 105.7 | 102.3 | 121.4 | 131.3 | 179.7 |
| JPH2 | 140.3 | 175.5 | 115.2 | 105.1 | 87.8 | 103.4 | 148.1 | 179.3 |
| JPH2 | 115 | 132.4 | 102 | 96.8 | 93.9 | 98.8 | 132.3 | 122.5 |
| JPH2 | 86.4 | 87.8 | 99.6 | 99.3 | 83 | 93.6 | 84.9 | 90.8 |
| JPH3 | 122.5 | 157.6 | 100.6 | 93.5 | 89.3 | 94.7 | 125.2 | 136 |
| JPH4 | 97.4 | 102.6 | 93.2 | 88.3 | 86.2 | 89.4 | 102.4 | 106.8 |
| JRK | 143.2 | 189.1 | 144.3 | 128 | 130.2 | 125.3 | 132.7 | 144.7 |
| JRKL | 169 | 243.1 | 118.3 | 113.8 | 105.6 | 119.5 | 148.5 | 183.3 |
| JSRP1 | 77.7 | 77.6 | 91.1 | 87.7 | 84.2 | 98.5 | 79.4 | 85.5 |
| JTB | 12717 | 14727.3 | 15041.1 | 11254.7 | 7986.6 | 10991.3 | 11500.4 | 17409.1 |
| JTV1 | 4230.3 | 6020.1 | 2591.6 | 1755.9 | 1375.3 | 1857.9 | 3834.2 | 3801.8 |
| JUB | 107.2 | 135.1 | 96.6 | 91.5 | 86.8 | 95.1 | 107.1 | 147.2 |
| JUB | 88.4 | 111.4 | 86.2 | 82.4 | 75.1 | 84.5 | 88.1 | 95.5 |
| JUB | 101 | 105.5 | 92.7 | 97.1 | 84.8 | 87.5 | 91 | 107.7 |
| JUN | 218.9 | 225.1 | 186.3 | 236.7 | 242.3 | 372.9 | 246.1 | 426.4 |
| JUNB | 142.5 | 180.8 | 140.1 | 132.8 | 123.7 | 143.7 | 142.9 | 185.7 |
| JUND | 5073.9 | 6370.9 | 5228.4 | 2849.7 | 2433.9 | 3465.2 | 5359.6 | 10095.8 |
| JUP | 116.3 | 116.8 | 97.2 | 98.6 | 80.3 | 77.4 | 119.6 | 120.1 |
| JUP | 89.1 | 105.8 | 100.2 | 88.6 | 107.7 | 97.6 | 96.2 | 95.6 |
| JUP | 101.7 | 119.2 | 130.5 | 180.8 | 196.9 | 188.3 | 113.9 | 134.9 |
| K5B | 101.6 | 105.9 | 106.8 | 90.7 | 82 | 90.8 | 95.1 | 108.2 |
| K6HF | 98.7 | 106.2 | 96.6 | 98.2 | 86.5 | 91.3 | 109.9 | 130.8 |
| K6IRS2 | 96.7 | 110.9 | 106.2 | 100.9 | 94.9 | 94.4 | 102.7 | 109.5 |
| K6IRS3 | 100.9 | 100.6 | 93.1 | 85.3 | 93.9 | 86.9 | 90.4 | 100.9 |
| K6IRS4 | 96.9 | 116 | 88.3 | 86.6 | 75.2 | 78.2 | 109.5 | 115.1 |
| KA21 | 72.4 | 94.7 | 90.2 | 82.3 | 86 | 78.7 | 80.6 | 86.6 |
| KAAG1 | 84.6 | 92.6 | 90.1 | 86.4 | 94.9 | 93.3 | 83 | 95 |
| KAL1 | 200.8 | 238.3 | 142.1 | 207.5 | 174.8 | 264.4 | 160.9 | 181.4 |
| K-ALPHA-1 | 31032.9 | 29480.8 | 22526.2 | 19323.3 | 17266 | 17744.1 | 29774 | 29132.7 |
| KALRN | 126.9 | 126.4 | 96.3 | 90 | 81.6 | 78.7 | 98.2 | 136.4 |
| KALRN | 86.9 | 90.9 | 94.4 | 93.6 | 91.9 | 87.7 | 81.7 | 86.1 |
| KALRN | 81.6 | 102.4 | 89.4 | 85.9 | 83.8 | 95.1 | 92.5 | 84.4 |
| KARCA1 | 85.6 | 96.9 | 82.6 | 84.4 | 78.6 | 87.9 | 80.2 | 97.3 |
| KARCA1 | 72.3 | 76.8 | 86.2 | 78.6 | 74.3 | 85 | 70.7 | 82.7 |
| KARS | 1039.6 | 1383.2 | 649.9 | 744.3 | 518.2 | 978.3 | 807.1 | 1432.1 |
| KATNA1 | 2148.9 | 2458.7 | 1582.4 | 1483.6 | 1208 | 2218.6 | 1909.1 | 2869 |
| KATNAL1 | 142.3 | 179.8 | 109.7 | 88.7 | 97.9 | 107.8 | 144.1 | 150.4 |
| KATNAL1 | 134.4 | 187.2 | 116.4 | 138 | 120.2 | 134.2 | 197.3 | 266.9 |
| KATNAL1 | 99.1 | 109.7 | 106.2 | 92.3 | 89.4 | 94.7 | 93.8 | 102.2 |
| KATNAL2 | 196.3 | 232 | 153.9 | 143.4 | 118.4 | 185.8 | 170.2 | 202.7 |
| KATNAL2 | 130.2 | 144.3 | 106.8 | 87.8 | 80.1 | 89.1 | 111 | 150 |
| KATNB1 | 609.9 | 712.8 | 441.5 | 333 | 303.2 | 408.4 | 540.5 | 546.3 |

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|---------|--------|--------|-------|--------|--------|--------|--------|--------|
| KAZALD1 | 101.8 | 114.2 | 106.1 | 87.4 | 93.6 | 97.7 | 103.6 | 109.4 |
| KBTBD1 | 111.9 | 117.9 | 97.9 | 84.9 | 78.9 | 89.1 | 95.5 | 134.4 |
| KBTBD10 | 86.8 | 106.4 | 87.2 | 84.8 | 82.6 | 83.5 | 82 | 95.5 |
| KBTBD11 | 4261.3 | 4790.7 | 2700 | 2336.3 | 1607.7 | 2524.7 | 2812.9 | 3031.3 |
| KBTBD2 | 967.9 | 1255.2 | 627.1 | 626.8 | 529.5 | 848.9 | 919.7 | 1331.7 |
| KBTBD3 | 100.8 | 108 | 98.6 | 96.6 | 100.7 | 106.8 | 95.6 | 108.1 |
| KBTBD3 | 191.7 | 215 | 160.3 | 168.3 | 133.9 | 160.9 | 181.7 | 256.4 |
| KBTBD4 | 89.3 | 111 | 82 | 84.1 | 75.5 | 82.9 | 89.4 | 112.1 |
| KBTBD4 | 127.6 | 168.2 | 122.6 | 119 | 96.3 | 135.5 | 114.6 | 130 |
| KBTBD5 | 65.7 | 80 | 92.9 | 92.4 | 81.8 | 90 | 75.2 | 79.1 |
| KBTBD6 | 118.3 | 131.6 | 95.6 | 95 | 80.8 | 82.8 | 115.1 | 153.7 |
| KBTBD7 | 251.5 | 282.2 | 154.6 | 205.8 | 167.5 | 206.8 | 217.2 | 356.3 |
| KBTBD8 | 247.6 | 289.7 | 172 | 133.7 | 122.8 | 172.2 | 228.1 | 390.9 |
| KCMF1 | 191.7 | 202.8 | 102.2 | 88.2 | 91.1 | 94.5 | 158.4 | 176.2 |
| KCMF1 | 153.6 | 197.7 | 103.6 | 96.8 | 85.5 | 96.7 | 136.5 | 198.7 |
| KCMF1 | 232.2 | 319.4 | 173.1 | 153.9 | 124.9 | 166.7 | 213.8 | 290.2 |
| KCNA1 | 98.4 | 113.3 | 97.9 | 101.1 | 83.1 | 92.5 | 94.9 | 109.3 |
| KCNA10 | 83 | 95 | 89.5 | 89.1 | 85 | 82.3 | 77.5 | 87.2 |
| KCNA2 | 74.6 | 79.2 | 82.1 | 71.7 | 75.1 | 78 | 77.5 | 73.3 |
| KCNA3 | 81.1 | 88.5 | 87.7 | 84 | 83.9 | 82.1 | 74.2 | 78.8 |
| KCNA4 | 84.2 | 88.3 | 94.9 | 82.8 | 72 | 77.4 | 78.9 | 81.4 |
| KCNA5 | 85.8 | 101.2 | 84.7 | 74.3 | 74 | 77.9 | 90.4 | 84.7 |
| KCNA6 | 97.1 | 122.2 | 88.9 | 73.2 | 79.2 | 87.6 | 100.4 | 116 |
| KCNA7 | 87.6 | 120 | 94.3 | 84.1 | 83.5 | 81.1 | 91.7 | 116.5 |
| KCNAB1 | 103 | 135.5 | 78.3 | 92.7 | 85.4 | 103.2 | 97.7 | 104.6 |
| KCNAB1 | 87.3 | 91.9 | 84.5 | 82.5 | 83.2 | 97.7 | 99.5 | 101.5 |
| KCNAB1 | 85.3 | 96 | 96.2 | 90.5 | 84.9 | 100.8 | 85.1 | 82.3 |
| KCNAB1 | 98 | 116.4 | 95.1 | 91.5 | 85.6 | 95.7 | 96.7 | 105.6 |
| KCNAB2 | 118.1 | 144.6 | 133.4 | 123.5 | 127.1 | 141.7 | 112 | 130.1 |
| KCNAB2 | 99.3 | 122.5 | 125.1 | 106.9 | 99.1 | 111.8 | 100.1 | 109.8 |
| KCNAB3 | 85.7 | 84.3 | 103.4 | 97.1 | 89.3 | 97.2 | 78.2 | 89.9 |
| KCNB1 | 84.8 | 110 | 100.7 | 79.5 | 81.6 | 87.4 | 94.5 | 99 |
| KCNB2 | 94.2 | 115.2 | 93.4 | 80.6 | 82.7 | 92.7 | 100.6 | 106.2 |
| KCNC1 | 72.2 | 88 | 93 | 87.4 | 82.3 | 87.8 | 85.2 | 95 |
| KCNC2 | 73.5 | 91.8 | 74.3 | 81.6 | 83.5 | 83.2 | 80.7 | 83.4 |
| KCNC2 | 84.3 | 91.9 | 91.8 | 85.7 | 82.2 | 81.6 | 82.3 | 86.4 |
| KCNC3 | 88 | 107.9 | 86.2 | 88.3 | 85 | 96.3 | 86.8 | 98.5 |
| KCNC4 | 93 | 101.5 | 94.5 | 91.2 | 82 | 96.4 | 93.2 | 95.1 |
| KCNC4 | 97.2 | 121 | 97.6 | 86.8 | 86.3 | 96.2 | 94.2 | 102.1 |
| KCNC4 | 86.3 | 93.9 | 100 | 91.7 | 83.3 | 91.6 | 89.3 | 91.8 |
| KCNC4 | 82.9 | 100.7 | 100.4 | 91.8 | 90.2 | 94.4 | 89.6 | 94.2 |
| KCND1 | 120.1 | 119.4 | 102.5 | 87.4 | 91.9 | 103.7 | 107.9 | 131.3 |
| KCND2 | 78.7 | 95.5 | 96.8 | 105.4 | 92.7 | 96.6 | 78.8 | 86.5 |
| KCND3 | 83.8 | 108.5 | 86.9 | 95.9 | 73.3 | 79.1 | 87.7 | 94 |
| KCND3 | 146.6 | 158.3 | 123 | 113.6 | 92.6 | 114.6 | 118.5 | 161.3 |
| KCND3 | 90.7 | 113.3 | 98.3 | 92.8 | 87.3 | 91.7 | 95 | 99.2 |
| KCNE1 | 98.1 | 100.6 | 82.8 | 78.8 | 84.8 | 84.7 | 85.6 | 114.3 |
| KCNE1L | 116.6 | 149.2 | 101.8 | 96.4 | 105.2 | 95.3 | 110.9 | 124.6 |
| KCNE2 | 86.4 | 96.8 | 93.4 | 87.8 | 79.5 | 80.8 | 96.5 | 94.3 |
| KCNE3 | 90.1 | 104.4 | 87.5 | 93.4 | 87.7 | 92.7 | 100.6 | 108.1 |

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|--------|--------|--------|--------|--------|--------|-------|--------|--------|
| KCNE4 | 83 | 94.1 | 94 | 80.6 | 77.4 | 75.7 | 79.6 | 90.9 |
| KCNF1 | 113.5 | 120.1 | 111.3 | 106.5 | 107.1 | 102.4 | 101.2 | 106.2 |
| KCNG1 | 562.8 | 728.5 | 347.1 | 201.8 | 173.7 | 202.8 | 495.3 | 501.8 |
| KCNG1 | 130.3 | 155 | 95.3 | 90 | 87 | 88.5 | 121.2 | 139.3 |
| KCNG1 | 97.8 | 105.8 | 112.3 | 96.1 | 92.7 | 96.7 | 93.3 | 97.3 |
| KCNG2 | 101.9 | 110.8 | 117.4 | 114.4 | 100.5 | 112.5 | 117.1 | 110.6 |
| KCNG3 | 87.9 | 93.6 | 93.3 | 80.3 | 71.9 | 86.6 | 82.4 | 94.8 |
| KCNG3 | 97.2 | 104.8 | 113.8 | 86.6 | 100.2 | 97.2 | 90.6 | 98.9 |
| KCNG4 | 75.6 | 76.4 | 77.1 | 78.3 | 71 | 76.8 | 76.5 | 78 |
| KCNG4 | 80.3 | 100.5 | 82.8 | 76.4 | 79.8 | 78.4 | 88.4 | 84.7 |
| KCNH1 | 89.3 | 97.8 | 90.2 | 83.2 | 87.4 | 92.1 | 82.9 | 114.5 |
| KCNH1 | 83.1 | 87.5 | 98.7 | 85.6 | 91.6 | 96.7 | 74.4 | 94.4 |
| KCNH2 | 101.1 | 101.4 | 108.2 | 89.9 | 99.9 | 97.6 | 105.8 | 98.4 |
| KCNH2 | 112.3 | 127.6 | 90.4 | 85.7 | 88 | 83 | 117.2 | 124.3 |
| KCNH2 | 132 | 153.1 | 115.3 | 108.7 | 102.1 | 128.7 | 118.2 | 130.8 |
| KCNH2 | 90.1 | 102.2 | 95.1 | 85.5 | 80 | 87.1 | 95.1 | 101.4 |
| KCNH3 | 80.8 | 93.2 | 95.4 | 88.2 | 98.8 | 94.9 | 86.1 | 85.6 |
| KCNH4 | 117.1 | 112.5 | 119.9 | 112.7 | 111 | 106.8 | 100.8 | 99 |
| KCNH5 | 92.9 | 110.8 | 91.6 | 88 | 83.7 | 91.5 | 100.7 | 105.2 |
| KCNH5 | 86.6 | 89.7 | 92 | 83 | 86.3 | 88.7 | 86.4 | 93.1 |
| KCNH6 | 86.3 | 99.1 | 91 | 82.8 | 88.8 | 84.1 | 86.9 | 89.5 |
| KCNH6 | 5745.1 | 5300.4 | 2264.3 | 4057.1 | 3945.1 | 2792 | 4520.3 | 7337.4 |
| KCNH7 | 86 | 93.7 | 87.5 | 82.8 | 81.5 | 84.3 | 90.3 | 103 |
| KCNH7 | 86.6 | 103.6 | 91.5 | 77.5 | 81.9 | 90.5 | 86.3 | 111.7 |
| KCNH7 | 103.8 | 113.8 | 88.4 | 76.4 | 75.8 | 84.4 | 95.6 | 114.1 |
| KCNH8 | 112.8 | 140.8 | 110.2 | 99.7 | 91.9 | 110 | 109.9 | 123.2 |
| KCNIP1 | 100.3 | 112.3 | 100.2 | 95.4 | 88.5 | 95.5 | 106.2 | 105.8 |
| KCNIP1 | 76 | 88.6 | 84.3 | 93 | 80.3 | 92.1 | 80.3 | 80.7 |
| KCNIP1 | 80.9 | 89.5 | 96.3 | 88.3 | 82.7 | 80.9 | 86.3 | 91.9 |
| KCNIP2 | 100.4 | 109.9 | 87.8 | 88.1 | 82.6 | 82.8 | 106.1 | 105.5 |
| KCNIP2 | 99.5 | 128.5 | 98.1 | 90.1 | 85.7 | 92.2 | 101 | 125.5 |
| KCNIP3 | 101.6 | 127.4 | 101.9 | 94.9 | 93.4 | 94.1 | 94.5 | 107.7 |
| KCNIP3 | 276.7 | 342.2 | 192.3 | 159.9 | 148.6 | 161.4 | 300.5 | 307.6 |
| KCNIP4 | 88 | 96.5 | 101.2 | 79 | 81.9 | 85.7 | 81.8 | 82 |
| KCNIP4 | 86.9 | 90.1 | 84.2 | 96.5 | 86.1 | 89.7 | 82.6 | 106.4 |
| KCNIP4 | 84 | 96.5 | 78.9 | 81.4 | 77.3 | 81.3 | 81.4 | 95.1 |
| KCNIP4 | 75.6 | 83.4 | 94.7 | 81.4 | 82.4 | 79.3 | 81 | 86 |
| KCNIP4 | 87.1 | 113 | 95.8 | 86.8 | 75.2 | 87 | 92.9 | 95.7 |
| KCNIP4 | 111 | 128.4 | 92.6 | 84.1 | 87.5 | 83.3 | 104.1 | 111.6 |
| KCNJ1 | 92.6 | 108.3 | 102.1 | 86.5 | 79.7 | 87.1 | 106.9 | 100.6 |
| KCNJ1 | 82.3 | 105.2 | 102.6 | 102.7 | 92.7 | 97.9 | 88.2 | 87.7 |
| KCNJ1 | 86.2 | 97 | 101.9 | 105.2 | 92.9 | 92.4 | 91.7 | 86.8 |
| KCNJ10 | 105.5 | 126 | 91.3 | 95.3 | 88.1 | 92.1 | 100 | 118 |
| KCNJ11 | 76.1 | 88.7 | 91.7 | 85.4 | 86.2 | 81.9 | 82.9 | 85.4 |
| KCNJ12 | 71.3 | 83.3 | 86.7 | 81.9 | 76.3 | 73.7 | 75.6 | 80.8 |
| KCNJ13 | 115 | 138.9 | 95.3 | 97.7 | 91.1 | 103 | 105 | 129.5 |
| KCNJ14 | 155.3 | 195.7 | 95.3 | 93 | 95.8 | 97.4 | 153.9 | 160.2 |
| KCNJ14 | 87 | 97.7 | 99 | 84 | 88.2 | 88.1 | 95.5 | 98.5 |
| KCNJ14 | 112.8 | 116 | 107.8 | 107.3 | 95.1 | 95 | 111.3 | 105.5 |
| KCNJ15 | 107.7 | 139.1 | 91.8 | 88.4 | 88 | 98.1 | 109.4 | 106 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| KCNJ15 | 82.7 | 95.6 | 95.8 | 96.9 | 96.1 | 91.1 | 96.3 | 96.3 |
| KCNJ15 | 83.6 | 88.7 | 104.4 | 89.5 | 89.7 | 91.4 | 90 | 99.9 |
| KCNJ16 | 91.7 | 107.1 | 104.2 | 99.5 | 104.8 | 100.3 | 99.7 | 98.7 |
| KCNJ2 | 107 | 121.2 | 104 | 138 | 127.9 | 130 | 103.3 | 140.7 |
| KCNJ3 | 83 | 90.2 | 101.3 | 88.5 | 83.1 | 91.1 | 80.8 | 92.5 |
| KCNJ4 | 104.7 | 118.8 | 90.6 | 80 | 74 | 79.3 | 113.1 | 123.6 |
| KCNJ4 | 74.9 | 102.8 | 91.3 | 81.1 | 80.8 | 89 | 92.1 | 100 |
| KCNJ4 | 80.3 | 83.7 | 96.7 | 93.3 | 85.7 | 92.8 | 83.1 | 89.1 |
| KCNJ5 | 123.6 | 134.2 | 111.8 | 87.2 | 106 | 111.8 | 111.1 | 108.9 |
| KCNJ6 | 101.5 | 109.6 | 96.1 | 83.6 | 78.5 | 80.3 | 101.3 | 109.8 |
| KCNJ8 | 117.2 | 138.1 | 101.2 | 93.3 | 85.3 | 97 | 100.8 | 124.5 |
| KCNJ9 | 93.4 | 103.8 | 96.2 | 92.7 | 82.9 | 86.4 | 88.6 | 88.5 |
| KCNK1 | 119.7 | 144.9 | 113.7 | 87.5 | 90.6 | 92.9 | 130.8 | 143.9 |
| KCNK10 | 102.2 | 101.6 | 100.9 | 92.7 | 82.8 | 85.5 | 98.2 | 101.9 |
| KCNK10 | 153.8 | 182.8 | 122.9 | 103.5 | 116.8 | 119.6 | 130.2 | 170.9 |
| KCNK10 | 86.8 | 98.5 | 94.4 | 77.4 | 86.5 | 93.2 | 91.9 | 92.6 |
| KCNK10 | 146.6 | 174.8 | 101.1 | 98.4 | 88.2 | 91.5 | 127 | 149.3 |
| KCNK12 | 310.4 | 343 | 213.6 | 197.5 | 165.2 | 170.8 | 299.2 | 322.8 |
| KCNK13 | 196 | 235 | 137.5 | 95.8 | 88.2 | 121.4 | 183.5 | 271.6 |
| KCNK15 | 130.9 | 128.3 | 96.3 | 75.2 | 79.4 | 86.8 | 115.9 | 149.9 |
| KCNK16 | 104.4 | 116.3 | 114.5 | 94.3 | 87.9 | 93.4 | 108 | 112 |
| KCNK17 | 106.3 | 125 | 98.7 | 93.2 | 97 | 84.2 | 108.6 | 116.1 |
| KCNK18 | 122.8 | 146.1 | 109.5 | 102.4 | 91.6 | 101.5 | 127.9 | 127.1 |
| KCNK2 | 91.3 | 93.3 | 99.3 | 93.1 | 82.6 | 95.3 | 88 | 88.6 |
| KCNK2 | 87 | 110.4 | 95.3 | 92.1 | 85 | 94 | 94.7 | 96.3 |
| KCNK2 | 74.6 | 81.5 | 88.4 | 82.3 | 81.4 | 80.6 | 75.4 | 75.2 |
| KCNK2 | 134.6 | 174.6 | 101.7 | 95.8 | 92.7 | 100.1 | 148.8 | 147.5 |
| KCNK3 | 111.1 | 163.8 | 117.3 | 101.5 | 95.5 | 91.6 | 107.7 | 142.9 |
| KCNK4 | 83.4 | 88.8 | 98 | 99.4 | 95.1 | 93.8 | 88.1 | 90.1 |
| KCNK4 | 91.5 | 92.5 | 99 | 88.7 | 86 | 91.7 | 83.6 | 96.8 |
| KCNK5 | 146.5 | 182.7 | 118.6 | 103.7 | 90.8 | 122.7 | 138.5 | 187.8 |
| KCNK6 | 140.1 | 137.7 | 124.8 | 119.2 | 123.3 | 150 | 136.8 | 192.3 |
| KCNK7 | 112 | 101.7 | 116.2 | 97.9 | 100 | 108.4 | 118.3 | 102 |
| KCNK7 | 97.6 | 101 | 95.5 | 86.5 | 89.4 | 87 | 87.9 | 103.7 |
| KCNK9 | 107.7 | 132.1 | 102.4 | 87.5 | 84.3 | 94.6 | 123.8 | 136.1 |
| KCNMA1 | 91.9 | 95.7 | 91.7 | 94.2 | 84.6 | 85.2 | 92.7 | 99.8 |
| KCNMA1 | 118.9 | 123.2 | 96.8 | 91.8 | 92.8 | 90.7 | 107.8 | 138.2 |
| KCNMA1 | 80.7 | 90 | 89.6 | 91.1 | 84.7 | 85.2 | 88.5 | 86.3 |
| KCNMB1 | 790.6 | 1036.3 | 545.5 | 828 | 610.3 | 878.6 | 593.8 | 692.3 |
| KCNMB2 | 154 | 162.4 | 101.3 | 91.2 | 87 | 97.2 | 143.4 | 155.2 |
| KCNMB2 | 76.3 | 87.1 | 91.5 | 84.8 | 92.2 | 87.3 | 81.7 | 78.6 |
| KCNMB2 | 94.9 | 113 | 105.7 | 90.8 | 86.2 | 87.7 | 97.1 | 109 |
| KCNMB3 | 77.3 | 77.4 | 80.8 | 88.3 | 80.7 | 84.8 | 73.1 | 76.6 |
| KCNMB3 | 96.5 | 103.3 | 98.3 | 94.7 | 85 | 97.9 | 92.5 | 110.7 |
| KCNMB3 | 251.4 | 324.4 | 224 | 257.5 | 242 | 328.6 | 218.9 | 353.6 |
| KCNMB4 | 92.7 | 120.3 | 85 | 85.2 | 86.7 | 89.2 | 91 | 118.6 |
| KCNN1 | 122.5 | 125 | 95.1 | 105.5 | 93.9 | 96.5 | 122.4 | 132 |
| KCNN2 | 340.2 | 500.3 | 241 | 207.3 | 202.5 | 229.6 | 251.3 | 310.6 |
| KCNN2 | 1619.3 | 2011.8 | 1214.3 | 1476.6 | 1330.5 | 1792.6 | 1429.8 | 1465.3 |
| KCNN3 | 108.1 | 107.8 | 100.6 | 94.9 | 89.4 | 89.7 | 107.1 | 109.7 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| KCNN3 | 155.6 | 179.2 | 110.6 | 102.1 | 91.6 | 100.5 | 154.4 | 138.6 |
| KCNN4 | 321.8 | 421.8 | 205.5 | 164.6 | 156.1 | 168.4 | 344.3 | 409.6 |
| KCNQ1 | 94 | 104.6 | 86.2 | 92.9 | 84.2 | 91.9 | 95 | 92.2 |
| KCNQ1 | 257.3 | 309 | 168.4 | 160.9 | 141.7 | 149.6 | 246.6 | 275.3 |
| KCNQ1 | 98.1 | 112.6 | 99.2 | 87.9 | 83.6 | 90.7 | 111.4 | 105 |
| KCNQ1DN | 85.1 | 87.2 | 88.5 | 81 | 75.4 | 87.4 | 88.7 | 89.2 |
| KCNQ2 | 77.3 | 82.6 | 89.5 | 83.3 | 82.4 | 84 | 79 | 81.7 |
| KCNQ2 | 147.1 | 173.9 | 99.9 | 107.8 | 89.2 | 103.3 | 153.1 | 154.9 |
| KCNQ2 | 109.8 | 125.5 | 100.1 | 94.2 | 89 | 104.5 | 111.3 | 123.4 |
| KCNQ3 | 139.6 | 172.4 | 129.9 | 122.1 | 106.1 | 138 | 148.2 | 144.6 |
| KCNQ4 | 107.4 | 128.2 | 95.5 | 91.3 | 81.7 | 94.2 | 106.4 | 122.7 |
| KCNQ4 | 79 | 84.1 | 78.4 | 82.2 | 79.7 | 80.8 | 85.7 | 86.9 |
| KCNQ4 | 131.1 | 139.5 | 112.2 | 93.1 | 83 | 83.2 | 128.4 | 143.7 |
| KCNQ5 | 90.5 | 101.8 | 96.8 | 90.2 | 90.1 | 86.4 | 80.9 | 84.4 |
| KCNRG | 87.5 | 92 | 113.3 | 116.6 | 102 | 113.6 | 85.9 | 86.5 |
| KCNRG | 93.3 | 110.5 | 98.9 | 111.7 | 108.6 | 114.5 | 92.9 | 105 |
| KCNS1 | 171.1 | 224.5 | 169 | 103.6 | 95.2 | 99.2 | 144.3 | 142.8 |
| KCNS2 | 87.8 | 105.1 | 89.5 | 99.1 | 91.7 | 95.9 | 93 | 86 |
| KCNS3 | 92.6 | 112 | 93.5 | 84.5 | 81.6 | 87.6 | 106.1 | 108 |
| KCNT1 | 75.3 | 77.7 | 87.3 | 78.7 | 83.2 | 87 | 75 | 77.1 |
| KCNT2 | 77.7 | 82 | 84.3 | 75.7 | 77.7 | 87.2 | 78.1 | 80 |
| KCNV1 | 78 | 78.1 | 100.3 | 99.5 | 85.4 | 93.9 | 81.7 | 87.5 |
| KCR1 | 153 | 197.4 | 120.1 | 101.6 | 97.6 | 108.4 | 152.5 | 200.7 |
| KCTD1 | 128.2 | 157.6 | 103.9 | 88.9 | 91.1 | 89.4 | 140.6 | 152.4 |
| KCTD10 | 239.8 | 325.7 | 154.3 | 217.5 | 173.8 | 210.6 | 289.8 | 316.8 |
| KCTD11 | 141.7 | 159.4 | 117.1 | 110.5 | 117.5 | 109.6 | 131 | 147.7 |
| KCTD12 | 208.8 | 214.7 | 121.5 | 137.8 | 115.5 | 159.9 | 171.5 | 258.8 |
| KCTD13 | 251.3 | 283.2 | 248.3 | 191.4 | 182.6 | 247.4 | 264.9 | 556.5 |
| KCTD14 | 85.4 | 108.7 | 102.4 | 97.6 | 82.8 | 85.1 | 90 | 98.2 |
| KCTD15 | 264.4 | 340.5 | 226.4 | 153.5 | 144 | 165.2 | 204.3 | 234.1 |
| KCTD16 | 79.7 | 104.9 | 93.9 | 84 | 76.6 | 81.7 | 84.5 | 91.2 |
| KCTD17 | 131.4 | 170.6 | 89.3 | 102.6 | 88.1 | 100.1 | 113.4 | 136.6 |
| KCTD18 | 296.2 | 341.4 | 189.7 | 141.4 | 132.3 | 201.5 | 220.4 | 363.9 |
| KCTD2 | 90.4 | 102.6 | 103.5 | 106.6 | 102.3 | 89.3 | 90.9 | 107.5 |
| KCTD2 | 155.1 | 170.5 | 155.9 | 131.9 | 122.1 | 145.1 | 148 | 186.3 |
| KCTD3 | 1353.3 | 1716.3 | 708.1 | 789 | 568.6 | 1155.9 | 1173.7 | 1863.3 |
| KCTD4 | 78 | 89.8 | 91.7 | 97 | 82.6 | 91.2 | 80.8 | 80 |
| KCTD5 | 1569.4 | 1933.8 | 1391.2 | 1209.1 | 1060.4 | 1343.6 | 1515.3 | 1976.3 |
| KCTD6 | 463.9 | 539 | 306 | 261.5 | 202.7 | 256.2 | 498.3 | 877.8 |
| KCTD7 | 89.8 | 96.3 | 88 | 86.5 | 84.8 | 87.7 | 93.7 | 104.2 |
| KCTD8 | 140.2 | 192.6 | 103.9 | 107.3 | 92.1 | 108.3 | 139.4 | 166.7 |
| KCTD9 | 492.8 | 550.3 | 346.5 | 322.7 | 219.2 | 397 | 559.9 | 1194.4 |
| KDELC1 | 125.8 | 169.9 | 98.2 | 104.5 | 92.9 | 104.6 | 143.8 | 190.1 |
| KDELC2 | 619.7 | 890.9 | 337.9 | 379.4 | 300.6 | 581.2 | 515.3 | 1137.4 |
| KDELR1 | 2016.1 | 2358.8 | 1096.3 | 1008.1 | 756 | 774.5 | 2233.4 | 2301 |
| KDELR2 | 2550.8 | 3069.2 | 1585.5 | 1247.6 | 869.2 | 1241.7 | 1901.3 | 3526.4 |
| KDELR3 | 448.2 | 648.7 | 287.8 | 257.7 | 189.5 | 306.2 | 343.7 | 412 |
| KDELR3 | 327.2 | 423.2 | 178.4 | 210.6 | 135.8 | 195.3 | 247.3 | 370.6 |
| KDELR3 | 136.1 | 177.4 | 124.9 | 120.4 | 89.9 | 93.8 | 126 | 160.8 |
| KDR | 99.7 | 121 | 100.9 | 96.7 | 84.5 | 88.5 | 106.2 | 122.2 |

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|-----------|---------|---------|--------|--------|---------|---------|---------|---------|
| KEAP1 | 816.5 | 1314.6 | 618.5 | 432.2 | 358 | 636.3 | 1128 | 1844.8 |
| KEAP1 | 87.2 | 101.3 | 98 | 86.7 | 84.6 | 91.1 | 84.4 | 105.3 |
| KEAP1 | 1098.1 | 1494.9 | 715.2 | 461.3 | 404.8 | 810.2 | 1310.3 | 2268.3 |
| KEL | 80.2 | 91.5 | 90.9 | 87.4 | 82.3 | 90.1 | 72.7 | 81.8 |
| KENAE | 232.9 | 310.2 | 149.1 | 170.8 | 136.6 | 151.1 | 194.4 | 209.9 |
| KERA | 138.1 | 139.9 | 97.8 | 86.1 | 83.7 | 90.6 | 131.7 | 138.6 |
| KGFLP1 | 74.1 | 88.5 | 88.1 | 81.7 | 84.4 | 79.1 | 77.6 | 76.2 |
| KHDRBS1 | 6789.8 | 7677.5 | 4224.4 | 4810.5 | 3278.7 | 4744.2 | 7100 | 11032.2 |
| KHDRBS2 | 109.4 | 124 | 90.8 | 87.9 | 80.1 | 90.5 | 105.3 | 121 |
| KHDRBS3 | 102 | 110.4 | 84.4 | 97.4 | 82.6 | 80 | 92.9 | 125.2 |
| KHK | 147.6 | 175.6 | 132.2 | 108.6 | 98.9 | 125.7 | 123.8 | 155.6 |
| KHK | 138.4 | 150.5 | 109.8 | 98.4 | 99.1 | 102.4 | 149.4 | 168.4 |
| KHK | 138.9 | 191.2 | 125 | 101 | 104.4 | 99.6 | 116.1 | 118.6 |
| KHSRP | 1303.8 | 1681 | 1145.5 | 721 | 732.2 | 631.8 | 909.1 | 895.4 |
| KIAA0020 | 2899 | 3488.3 | 2537.9 | 2180.2 | 1630.6 | 3696.5 | 1974.7 | 3416.7 |
| KIAA0082 | 108.9 | 155.2 | 98.9 | 110.9 | 99.5 | 108.2 | 111.6 | 121.2 |
| KIAA0090 | 453.8 | 574.6 | 324.2 | 521.5 | 361.6 | 508 | 402.1 | 584.6 |
| KIAA0100 | 149 | 197.3 | 106.3 | 97.3 | 91.3 | 101.5 | 159.7 | 168.9 |
| KIAA0101 | 10111.8 | 12217.6 | 7596.7 | 5701.1 | 4758.2 | 6412.1 | 9116.2 | 9505.5 |
| KIAA0101 | 936.3 | 1104.3 | 663.5 | 697.3 | 537.2 | 726.1 | 993.4 | 1355.7 |
| KIAA0101 | 24148 | 23601.2 | 10398 | 12935 | 14399.6 | 13034.5 | 23489.4 | 25326.9 |
| KIAA0103 | 208.5 | 274 | 138.9 | 109.6 | 108 | 127 | 212.1 | 282 |
| KIAA0133 | 336.2 | 477.1 | 314.8 | 147.8 | 120.9 | 157.9 | 290.1 | 346.4 |
| KIAA0141 | 319.6 | 413.9 | 334.4 | 456.8 | 404.1 | 640.4 | 250.9 | 445.4 |
| KIAA0143 | 1507.5 | 2082 | 1217.3 | 1046.4 | 761.4 | 1211.6 | 1311.2 | 2140.4 |
| KIAA0152 | 1585.9 | 2368.5 | 1953.3 | 2012.6 | 1351.9 | 3385.6 | 1355.2 | 2432.3 |
| KIAA0157 | 1364 | 1882 | 804.4 | 658 | 545.9 | 682.2 | 1225 | 1669.2 |
| KIAA0174 | 3312.2 | 4233.1 | 1991.8 | 1637.1 | 1335.2 | 1615.3 | 2434.6 | 3002.4 |
| KIAA0179 | 291.8 | 387 | 285 | 327.7 | 219.3 | 424.6 | 222.5 | 462.3 |
| KIAA0182 | 658.8 | 915.7 | 587.1 | 921.3 | 796.3 | 1013.4 | 657.6 | 901.6 |
| KIAA0195 | 138.2 | 172.4 | 269.2 | 251.9 | 235.6 | 332.7 | 120.6 | 194.1 |
| KIAA0196 | 1712.3 | 2467.4 | 1693.8 | 1416.8 | 1137.5 | 1892.4 | 1359.9 | 2304.3 |
| KIAA0232 | 212.3 | 243.7 | 148 | 175.9 | 147.7 | 159.6 | 214.9 | 322 |
| KIAA0240 | 582.8 | 760.7 | 405.3 | 681.5 | 565.5 | 775.3 | 675.4 | 912.6 |
| KIAA0241 | 157.3 | 228.4 | 134.7 | 141.3 | 130.8 | 168.3 | 147.2 | 196.3 |
| KIAA0247 | 270.3 | 392.8 | 204.2 | 248.5 | 215.7 | 288 | 290.7 | 490.6 |
| KIAA0251 | 240 | 358.4 | 146.2 | 142.2 | 147.6 | 135.9 | 189.1 | 217.1 |
| KIAA0256 | 173.9 | 204.5 | 136.6 | 193.8 | 175.8 | 228.4 | 190.7 | 244.8 |
| KIAA0258 | 97 | 109.6 | 95.2 | 93 | 93.7 | 88.4 | 89.8 | 100.5 |
| KIAA0261 | 430.8 | 628.8 | 258.8 | 248.3 | 207.7 | 417.4 | 324.9 | 472.1 |
| KIAA0265 | 121.3 | 154.5 | 117.2 | 106.2 | 106.5 | 134.4 | 117.9 | 147.8 |
| KIAA0274 | 458 | 545.8 | 380.8 | 481.8 | 408.6 | 676.6 | 378.7 | 481.1 |
| KIAA0280 | 107.6 | 119.2 | 98.9 | 82.7 | 80.4 | 96.9 | 101.9 | 108.4 |
| KIAA0284 | 92.2 | 103.2 | 100.8 | 102.1 | 87.8 | 108.2 | 91.1 | 105.9 |
| KIAA0286 | 466 | 660.8 | 400.1 | 428.4 | 325.8 | 593.9 | 532.9 | 1010.7 |
| KIAA0310 | 1043.7 | 1169.3 | 1338.5 | 1657.7 | 1308.6 | 1862.3 | 1208.5 | 1877.6 |
| KIAA0319 | 74.6 | 90.1 | 81.3 | 83.4 | 81.7 | 83.8 | 80.7 | 87.4 |
| KIAA0319L | 190.7 | 236.2 | 155.5 | 173.1 | 159.6 | 168.2 | 169.7 | 196.2 |
| KIAA0319L | 172 | 210.3 | 199.8 | 217.5 | 188.4 | 230.3 | 168.2 | 404.4 |
| KIAA0319L | 119.4 | 126.4 | 96.3 | 96.2 | 101.9 | 104.3 | 112.3 | 115.1 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| KIAA0323 | 208.6 | 199.3 | 250.8 | 171.9 | 207.4 | 232.3 | 209.7 | 353.9 |
| KIAA0329 | 88.4 | 93.3 | 104 | 91.8 | 87.6 | 82.5 | 77.7 | 92.1 |
| KIAA0350 | 546.2 | 742.2 | 629.4 | 664.5 | 607.2 | 645.2 | 458.8 | 555.2 |
| KIAA0355 | 202.6 | 237.2 | 174.8 | 182.9 | 202.5 | 236.7 | 269.6 | 322.1 |
| KIAA0367 | 97.5 | 112.8 | 95.9 | 93.6 | 91.5 | 99.1 | 95.5 | 106.2 |
| KIAA0368 | 120.3 | 144.8 | 131.7 | 132.5 | 116.4 | 138.5 | 123.3 | 148.5 |
| KIAA0372 | 601.3 | 723.5 | 294 | 572.1 | 413 | 778.3 | 492.8 | 711 |
| KIAA0376 | 1208.7 | 1651.8 | 1294.6 | 1744.2 | 1337.9 | 2125.2 | 1112.5 | 1341.2 |
| KIAA0391 | 1005.2 | 1295.5 | 516.8 | 449.7 | 323.7 | 500.2 | 810.7 | 1004.7 |
| KIAA0404 | 170.7 | 206.3 | 209.8 | 230.7 | 204.3 | 226.3 | 180.9 | 234.9 |
| KIAA0406 | 228.8 | 284.1 | 157.2 | 179.2 | 147 | 247.6 | 206.8 | 261.1 |
| KIAA0408 | 184.2 | 189.9 | 120.8 | 120.1 | 111.7 | 116 | 155.6 | 215.1 |
| KIAA0409 | 561.9 | 718.3 | 286.5 | 196.5 | 161.8 | 252.3 | 478.7 | 519.8 |
| KIAA0415 | 136.6 | 163.9 | 130.6 | 134.3 | 122.5 | 146.4 | 149.6 | 208.1 |
| KIAA0423 | 201.8 | 242.8 | 146.9 | 132.7 | 130.2 | 162.7 | 168.9 | 232.7 |
| KIAA0427 | 116.5 | 128.9 | 166.3 | 185.3 | 156.3 | 216.1 | 115.5 | 160.6 |
| KIAA0446 | 1159.2 | 1394.2 | 456.1 | 372.4 | 302.4 | 404.7 | 1005.3 | 1193.4 |
| KIAA0460 | 125 | 158.3 | 131.4 | 137.9 | 130.4 | 241.9 | 102.2 | 154.7 |
| KIAA0467 | 112 | 116.4 | 77.8 | 94.1 | 80.5 | 78.5 | 107 | 123.9 |
| KIAA0494 | 742.1 | 1088.7 | 568.7 | 880.7 | 685.5 | 1242.4 | 647.3 | 1026.9 |
| KIAA0495 | 138.2 | 161.8 | 114.3 | 111.8 | 95.5 | 117.2 | 136.1 | 147.3 |
| KIAA0513 | 89 | 102.4 | 102.7 | 95.7 | 96.3 | 108.3 | 96.2 | 135.4 |
| KIAA0514 | 76.3 | 80.1 | 87.7 | 78 | 63.8 | 81 | 71.9 | 69.8 |
| KIAA0523 | 115.9 | 144.9 | 84.1 | 70.5 | 89.1 | 78.6 | 146.3 | 141.1 |
| KIAA0528 | 1139.7 | 1492.1 | 455.9 | 434.8 | 323.9 | 539.1 | 821.1 | 1111.6 |
| KIAA0553 | 92.8 | 122.2 | 105.1 | 94.7 | 97.6 | 118.3 | 109.6 | 125.6 |
| KIAA0556 | 222.6 | 270.1 | 162.8 | 183.8 | 153.3 | 196.3 | 200.6 | 235.8 |
| KIAA0562 | 122.4 | 138 | 159.2 | 144.4 | 145 | 163.5 | 117.5 | 164.4 |
| KIAA0564 | 199 | 220.3 | 167.9 | 177.1 | 149.5 | 212.3 | 172.5 | 274.3 |
| KIAA0564 | 143.2 | 189.7 | 109.9 | 121 | 112.3 | 142.7 | 143.9 | 189.8 |
| KIAA0586 | 405.9 | 545.7 | 240.4 | 214.3 | 216 | 302.5 | 325.5 | 324.5 |
| KIAA0644 | 100.6 | 117.5 | 94.8 | 91.9 | 89.1 | 95.6 | 96.6 | 106.5 |
| KIAA0649 | 141.6 | 167.1 | 129.8 | 112.5 | 111.8 | 154.9 | 148.4 | 142.7 |
| KIAA0652 | 112.6 | 126.2 | 96.1 | 107.4 | 92 | 111.7 | 104.2 | 125.7 |
| KIAA0664 | 188 | 204.5 | 264.5 | 236.4 | 185.3 | 404.6 | 169.4 | 191.8 |
| KIAA0672 | 137.9 | 168.2 | 178.2 | 145.5 | 144.8 | 152.9 | 111.8 | 104.4 |
| KIAA0683 | 445.4 | 481.1 | 337.8 | 300 | 264.4 | 327.1 | 367.9 | 297.3 |
| KIAA0690 | 425.2 | 485.1 | 412.4 | 277.2 | 183.2 | 326.9 | 305.5 | 527.8 |
| KIAA0701 | 114.5 | 141.8 | 130.9 | 110.5 | 110.2 | 124.3 | 113.8 | 111.4 |
| KIAA0703 | 77.5 | 92.3 | 88.8 | 86.6 | 89 | 93 | 85.7 | 88.3 |
| KIAA0738 | 4883.7 | 5356.1 | 1829.5 | 3071.5 | 2562.5 | 2636.9 | 4546.2 | 5356.7 |
| KIAA0746 | 643.1 | 898.5 | 405.8 | 335.7 | 341.3 | 465.5 | 712.6 | 923.8 |
| KIAA0753 | 139.6 | 160.3 | 100.9 | 115.5 | 91.8 | 121.8 | 126 | 167.6 |
| KIAA0773 | 225.2 | 278 | 129.7 | 123.4 | 99.5 | 115.9 | 205.1 | 250.2 |
| KIAA0773 | 105.6 | 134 | 117.8 | 112.9 | 110.7 | 107.3 | 121.4 | 113.6 |
| KIAA0773 | 81.2 | 85.9 | 101.1 | 91.4 | 87.8 | 90 | 82 | 86.1 |
| KIAA0774 | 98.8 | 118.7 | 101.3 | 92.2 | 91 | 99.2 | 95.3 | 96.7 |
| KIAA0774 | 88.8 | 79.8 | 79.4 | 83.3 | 77.2 | 80.3 | 82.3 | 87.8 |
| KIAA0774 | 84.8 | 97.7 | 103.6 | 82.8 | 76.6 | 80.7 | 91.8 | 123.5 |
| KIAA0776 | 295.8 | 338.8 | 154.8 | 155.7 | 141.4 | 153.4 | 219.7 | 354.8 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| KIAA0789 | 112 | 141.1 | 116.9 | 88.3 | 78.8 | 103.7 | 119.7 | 121.9 |
| KIAA0802 | 82.1 | 103 | 98.8 | 103.2 | 88.3 | 106.7 | 86.1 | 87.3 |
| KIAA0828 | 141.3 | 171.8 | 144.2 | 159.5 | 135.7 | 186 | 127.8 | 179 |
| KIAA0831 | 326.5 | 401.5 | 173.7 | 182.5 | 166.7 | 208.7 | 334.6 | 594.8 |
| KIAA0853 | 92.9 | 120.1 | 90.6 | 91 | 82.5 | 85.6 | 87.9 | 100.5 |
| KIAA0859 | 578.9 | 678.6 | 472.8 | 432.4 | 334.7 | 534.2 | 385.1 | 540.6 |
| KIAA0859 | 2350.1 | 2913.1 | 1960.8 | 1579.3 | 1243.8 | 1961.5 | 1538.1 | 1980.9 |
| KIAA0892 | 443.6 | 465.7 | 368.9 | 275.8 | 252.7 | 282 | 436.8 | 682.3 |
| KIAA0895 | 94.1 | 106.7 | 88.4 | 74.9 | 75.9 | 77.9 | 87.8 | 106.5 |
| KIAA0907 | 1880.8 | 2058.9 | 631.6 | 655.6 | 575.1 | 1169.3 | 1456.3 | 2365 |
| KIAA0913 | 198.4 | 239.2 | 255 | 268.4 | 298.9 | 384.3 | 188.7 | 310.9 |
| KIAA0922 | 417.2 | 552.6 | 420.5 | 367.4 | 325.7 | 466.6 | 300.6 | 410 |
| KIAA0961 | 132.8 | 138.1 | 129.9 | 91.6 | 88.9 | 103.1 | 107 | 224.3 |
| KIAA0963 | 130.9 | 146.9 | 158.9 | 114.3 | 112.8 | 150 | 123.2 | 223.3 |
| KIAA0980 | 117.5 | 140.6 | 110.1 | 107.9 | 103.8 | 114.8 | 107.8 | 149.2 |
| KIAA0999 | 457.7 | 648.2 | 220 | 247.9 | 260.4 | 319.9 | 450.9 | 511.4 |
| KIAA1005 | 110.8 | 116.4 | 109.3 | 97.9 | 86 | 101.8 | 108.5 | 117.2 |
| KIAA1008 | 189 | 243.8 | 143.4 | 140.5 | 143 | 172.3 | 151.1 | 196.4 |
| KIAA1012 | 1322.6 | 1787.8 | 1036.4 | 1599.3 | 1273.2 | 2100.3 | 1495.5 | 2110.9 |
| KIAA1024 | 126.1 | 151.7 | 113.3 | 116.3 | 113.7 | 120.3 | 137.1 | 163.2 |
| KIAA1026 | 123.1 | 121.6 | 117.9 | 113.8 | 99.1 | 108.6 | 112.4 | 120.5 |
| KIAA1026 | 127.1 | 172.2 | 101.2 | 96.9 | 95.9 | 104.6 | 131.6 | 140.2 |
| KIAA1026 | 95.3 | 109.4 | 92.9 | 88.5 | 89.6 | 85.7 | 88.9 | 105 |
| KIAA1026 | 137.5 | 162.7 | 143.4 | 108.3 | 105.2 | 113 | 119.3 | 155.3 |
| KIAA1026 | 94.3 | 103.4 | 92.9 | 90.9 | 80.4 | 82.2 | 96.7 | 101.3 |
| KIAA1033 | 110.7 | 141.6 | 88.3 | 74.9 | 85 | 108.8 | 130.3 | 156.3 |
| KIAA1128 | 145 | 178.4 | 164.8 | 150.6 | 145.3 | 237.9 | 158.4 | 223.9 |
| KIAA1143 | 78.5 | 81.6 | 94.5 | 90.1 | 82.7 | 84.9 | 84.8 | 82.1 |
| KIAA1147 | 291.8 | 393.3 | 301.9 | 525.8 | 409.8 | 571.5 | 293 | 417 |
| KIAA1160 | 1249 | 1652.9 | 419.4 | 312.9 | 297.5 | 329.4 | 862.5 | 1150.8 |
| KIAA1161 | 128.4 | 158.5 | 89.4 | 92.9 | 83.1 | 93.7 | 126.9 | 138 |
| KIAA1166 | 112.3 | 150.7 | 115.8 | 95.6 | 100.8 | 103.4 | 122 | 135.2 |
| KIAA1171 | 83.5 | 90.6 | 80.6 | 85.6 | 72.8 | 78.9 | 95.4 | 103 |
| KIAA1189 | 101.7 | 131.4 | 110.8 | 99.7 | 86.3 | 100.4 | 95.7 | 106.2 |
| KIAA1189 | 80.8 | 92.4 | 85.8 | 78.4 | 80.8 | 84.8 | 81.2 | 85.8 |
| KIAA1189 | 88.4 | 100.2 | 89.1 | 88.4 | 82.4 | 90.4 | 99 | 105.1 |
| KIAA1191 | 899 | 1084.3 | 695.1 | 840.9 | 653 | 828.5 | 777.5 | 1266.1 |
| KIAA1191 | 913 | 1342.2 | 459.2 | 510.7 | 441.4 | 635.2 | 824.1 | 1198.1 |
| KIAA1193 | 111.4 | 138 | 101.8 | 90.6 | 84.2 | 91.1 | 117.4 | 158.7 |
| KIAA1199 | 82.5 | 96.3 | 91.2 | 89.9 | 85.9 | 93.8 | 85.2 | 96.7 |
| KIAA1212 | 226.2 | 296 | 145.7 | 174.7 | 160.7 | 267.5 | 227.9 | 331.7 |
| KIAA1217 | 83.5 | 98.7 | 82.9 | 80.5 | 73.8 | 89.1 | 82.7 | 103.9 |
| KIAA1219 | 254.2 | 353.6 | 260.3 | 234.8 | 178.5 | 324.9 | 229.3 | 304 |
| KIAA1244 | 109.6 | 117.2 | 105.2 | 98.5 | 89.5 | 81.8 | 100.2 | 119.3 |
| KIAA1267 | 788 | 872.4 | 548.1 | 703.1 | 594.4 | 961.4 | 728.2 | 1182.6 |
| KIAA1274 | 131.8 | 168.6 | 100.3 | 96.4 | 80.7 | 96.5 | 116.7 | 164.4 |
| KIAA1279 | 106.4 | 131.2 | 99.9 | 95.6 | 100.5 | 92.6 | 120.2 | 143.7 |
| KIAA1285 | 150.4 | 216.1 | 108.7 | 85.6 | 88.6 | 105 | 140.8 | 184.9 |
| KIAA1287 | 477.8 | 478.3 | 231.8 | 316.8 | 236.6 | 339.4 | 399.1 | 526.2 |
| KIAA1324 | 90.1 | 107.8 | 96.9 | 91.5 | 85.7 | 88.4 | 92.7 | 102.9 |

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|-----------|-------|--------|-------|-------|-------|--------|-------|-------|
| KIAA1324L | 267.5 | 350.7 | 227.9 | 239.8 | 210 | 346.5 | 222 | 301.9 |
| KIAA1328 | 179.5 | 187.8 | 122.9 | 124.1 | 108.1 | 137.7 | 153.1 | 171.7 |
| KIAA1333 | 207 | 242.6 | 116.7 | 114.2 | 116.5 | 146.6 | 179.3 | 270.8 |
| KIAA1344 | 152.3 | 186.5 | 119.6 | 114.2 | 93.9 | 130.7 | 121.6 | 182.2 |
| KIAA1345 | 71.9 | 73.4 | 94.1 | 90.3 | 93.8 | 91.1 | 76.5 | 82.4 |
| KIAA1370 | 139 | 144.5 | 112 | 125.6 | 127.6 | 152.3 | 142.8 | 230.5 |
| KIAA1377 | 85.2 | 106.1 | 90.4 | 87 | 74.2 | 97.4 | 87.7 | 97.5 |
| KIAA1407 | 102.5 | 113.6 | 110.7 | 104.9 | 104.4 | 122 | 96.6 | 113.9 |
| KIAA1409 | 108.4 | 110.2 | 94.6 | 104.6 | 99.5 | 103.7 | 98.4 | 103.3 |
| KIAA1411 | 302.9 | 335.4 | 195.5 | 203.2 | 186 | 254 | 269.2 | 410.7 |
| KIAA1429 | 352.8 | 518.5 | 209.7 | 236 | 205.9 | 286.4 | 243.2 | 304.7 |
| KIAA1432 | 89.4 | 118.8 | 91.2 | 94.4 | 86.9 | 97.2 | 100.4 | 97.1 |
| KIAA1434 | 318.5 | 326 | 157.6 | 336.7 | 250.5 | 492.8 | 267.1 | 471.1 |
| KIAA1443 | 121.2 | 136.4 | 92.3 | 90.4 | 88.1 | 87.5 | 104.8 | 134.8 |
| KIAA1446 | 165.8 | 188.8 | 213.1 | 162.8 | 141.6 | 185.4 | 159.2 | 202.9 |
| KIAA1456 | 92.8 | 101.5 | 95.7 | 97.8 | 85 | 94.4 | 93.1 | 98.1 |
| KIAA1467 | 150.1 | 191.5 | 148.9 | 107.7 | 103.7 | 123.1 | 167.8 | 236.3 |
| KIAA1468 | 339.5 | 406 | 185.4 | 221.4 | 159.3 | 325.3 | 300.6 | 478 |
| KIAA1505 | 88.7 | 100.8 | 115.6 | 104.4 | 99.7 | 127.1 | 89.5 | 96.3 |
| KIAA1522 | 107.5 | 140.2 | 111.1 | 108.1 | 108 | 134.7 | 139.9 | 213.2 |
| KIAA1524 | 77.2 | 93.1 | 93.5 | 83.9 | 77.9 | 88.9 | 88.7 | 87 |
| KIAA1529 | 76.7 | 90.9 | 75.1 | 83.7 | 78.6 | 87.8 | 77.9 | 86.5 |
| KIAA1530 | 200.7 | 214.2 | 176.9 | 214.8 | 200 | 231.3 | 171.9 | 241.2 |
| KIAA1530 | 122.2 | 152.4 | 101 | 97.1 | 90.8 | 94.7 | 143 | 139.2 |
| KIAA1539 | 152.6 | 167.8 | 153.5 | 206.6 | 179.8 | 233.3 | 139.6 | 315.6 |
| KIAA1542 | 94.6 | 99.9 | 91.2 | 92.9 | 80.8 | 83.4 | 84.8 | 110 |
| KIAA1543 | 96.1 | 104.6 | 97.2 | 99.9 | 88.5 | 99.9 | 97.1 | 122 |
| KIAA1543 | 83.2 | 87 | 96.8 | 98.2 | 92.8 | 85.1 | 96.9 | 100.9 |
| KIAA1553 | 123 | 134.8 | 94.1 | 82.3 | 90.8 | 94 | 108.9 | 153.1 |
| KIAA1553 | 147.2 | 240.8 | 191.9 | 176.9 | 142.7 | 180.7 | 137.4 | 186 |
| KIAA1559 | 119.9 | 141.7 | 83.6 | 98.9 | 98.4 | 89.5 | 126.6 | 158.3 |
| KIAA1576 | 467.6 | 543.4 | 169.3 | 126.7 | 111.3 | 139.8 | 407.4 | 549.5 |
| KIAA1586 | 194.2 | 247.2 | 115.5 | 145.2 | 127.7 | 187.5 | 170.8 | 233.2 |
| KIAA1598 | 428.4 | 548 | 330.5 | 416 | 322.3 | 658.4 | 369.1 | 640.6 |
| KIAA1600 | 220 | 259.7 | 212.2 | 168.1 | 140.4 | 211.4 | 228.9 | 477.6 |
| KIAA1604 | 168.2 | 163.8 | 98.8 | 103 | 88.8 | 132.5 | 145.3 | 298.1 |
| KIAA1609 | 100.7 | 129.4 | 110.4 | 106.6 | 101.6 | 94.7 | 102.3 | 118.4 |
| KIAA1618 | 224 | 286.6 | 191.6 | 186.7 | 169.2 | 214.7 | 213.3 | 254.6 |
| KIAA1622 | 83 | 90 | 94 | 83.3 | 78.5 | 94.9 | 80.7 | 85.3 |
| KIAA1622 | 84 | 82.6 | 90.5 | 83.2 | 88.7 | 88.2 | 86.9 | 72.1 |
| KIAA1622 | 76.4 | 70.9 | 85.3 | 84.9 | 74.2 | 78.1 | 74.7 | 77.4 |
| KIAA1627 | 262.3 | 311.8 | 110.1 | 121.4 | 120.8 | 135.1 | 223.3 | 234.6 |
| KIAA1632 | 110.6 | 140.4 | 97.4 | 109.3 | 109.5 | 114.2 | 100.6 | 110.7 |
| KIAA1641 | 129.6 | 149.3 | 122.6 | 106.6 | 93.4 | 116.6 | 120.6 | 129.4 |
| KIAA1683 | 109.2 | 167 | 85.8 | 90.6 | 82.9 | 89.9 | 120 | 106.8 |
| KIAA1688 | 107 | 99 | 105.5 | 90.3 | 81.8 | 95.6 | 91.5 | 110.4 |
| KIAA1698 | 248.1 | 340.3 | 320.6 | 224.1 | 183.7 | 233 | 234.8 | 436.1 |
| KIAA1704 | 87.2 | 112 | 83.1 | 82.7 | 78.8 | 81.9 | 89.1 | 91.9 |
| KIAA1706 | 104.2 | 134.4 | 130.6 | 135.3 | 151.5 | 143.9 | 128.8 | 151.9 |
| KIAA1712 | 952.7 | 1113.5 | 723.4 | 742.6 | 705.9 | 1181.2 | 715.6 | 898.2 |

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| KIAA1715 | 340.7 | 541.7 | 372.7 | 590.7 | 430 | 615.4 | 342.8 | 497.3 |
| KIAA1727 | 115.6 | 126.9 | 98.7 | 97.4 | 89.7 | 111.4 | 116.1 | 121.7 |
| KIAA1729 | 494.2 | 594.9 | 437.2 | 204.5 | 173.7 | 242.1 | 436.8 | 818.6 |
| KIAA1737 | 448.4 | 533.9 | 304.4 | 329.7 | 252.7 | 387.9 | 375.9 | 656.2 |
| KIAA1751 | 962.4 | 980.5 | 436.1 | 524.4 | 548.4 | 443.2 | 858.4 | 1542.6 |
| KIAA1754 | 292.7 | 338.3 | 239.4 | 188.2 | 181.4 | 224.4 | 294.6 | 435.5 |
| KIAA1754L | 91 | 104.3 | 93.4 | 87.5 | 79.3 | 87.5 | 90.5 | 93.3 |
| KIAA1754L | 106.7 | 122.5 | 92.4 | 94.6 | 81.8 | 85.3 | 100.4 | 123.6 |
| KIAA1754L | 86.9 | 97.6 | 87.7 | 88.7 | 86.8 | 88.5 | 88 | 85.2 |
| KIAA1755 | 122.5 | 144.1 | 93.1 | 85.4 | 88.2 | 85.9 | 115.9 | 145.5 |
| KIAA1772 | 76 | 89.5 | 97.2 | 88.2 | 92.9 | 96.7 | 80.2 | 87.2 |
| KIAA1787 | 135 | 132.2 | 188.4 | 184 | 166.3 | 247.6 | 129.8 | 140.3 |
| KIAA1794 | 761.8 | 931.8 | 215 | 196.5 | 161.9 | 333.2 | 626.5 | 847.9 |
| KIAA1797 | 280.6 | 365.1 | 227.4 | 220.4 | 181.5 | 263.4 | 243.6 | 379.3 |
| KIAA1799 | 80.2 | 98.3 | 110 | 93.6 | 93.8 | 91.1 | 88.8 | 106.3 |
| KIAA1804 | 177.8 | 208.4 | 119.3 | 123.7 | 110.3 | 145.4 | 147.4 | 297.9 |
| KIAA1815 | 255.8 | 340.4 | 169.2 | 189.2 | 184.8 | 247.7 | 227.5 | 273 |
| KIAA1822 | 92.3 | 103.5 | 99.8 | 102.4 | 93.9 | 89.9 | 91.1 | 105.9 |
| KIAA1822L | 110.8 | 142.9 | 94.7 | 80.6 | 79.8 | 89.8 | 122.9 | 129 |
| KIAA1826 | 824.6 | 1022 | 619.5 | 523.7 | 392.9 | 791.3 | 619.6 | 938.8 |
| KIAA1838 | 1380.3 | 1953.8 | 1299.9 | 1921.3 | 1556.7 | 2095.9 | 1104.6 | 1297.5 |
| KIAA1840 | 488.8 | 641.8 | 386.2 | 841.5 | 694 | 1243.6 | 461.7 | 799.3 |
| KIAA1841 | 67.9 | 72.8 | 74.1 | 74.2 | 68.4 | 72.9 | 72.4 | 77 |
| KIAA1853 | 97.4 | 107.5 | 90.2 | 77.8 | 74.8 | 91.9 | 94.7 | 120.7 |
| KIAA1862 | 112.1 | 139.5 | 140.8 | 126.9 | 122.4 | 135.6 | 106.8 | 128 |
| KIAA1875 | 111.6 | 151.2 | 125.7 | 96.2 | 116.3 | 130 | 99.4 | 121 |
| KIAA1893 | 122.3 | 132.3 | 109.3 | 112.6 | 105.1 | 129.8 | 106.1 | 131.9 |
| KIAA1900 | 88.2 | 92.5 | 92.2 | 92.4 | 86.7 | 93.7 | 88 | 102.4 |
| KIAA1904 | 120 | 143.8 | 97.6 | 89.7 | 80.5 | 87.7 | 108 | 144.2 |
| KIAA1909 | 76.5 | 86.1 | 77.4 | 80.4 | 73.5 | 74.5 | 74.2 | 87.2 |
| KIAA1912 | 89.8 | 94.1 | 103 | 83.2 | 76.7 | 83 | 86.5 | 106.5 |
| KIAA1913 | 81.1 | 87.1 | 108.2 | 118.5 | 104.9 | 116.7 | 84.1 | 86.6 |
| KIAA1914 | 91.6 | 107.7 | 108.7 | 114.7 | 102.6 | 106.3 | 94.4 | 99.3 |
| KIAA1919 | 91 | 110 | 122 | 108 | 98.1 | 98.4 | 97.2 | 99.1 |
| KIAA1920 | 99.9 | 115.9 | 108.8 | 96.9 | 96.1 | 101.1 | 98.8 | 109.1 |
| KIAA1924 | 108.2 | 130.1 | 84 | 76.4 | 68.6 | 86.7 | 107.7 | 126.5 |
| KIAA1944 | 81.7 | 88.6 | 93 | 82.5 | 79.5 | 90.8 | 78.1 | 85.5 |
| KIAA1946 | 124.6 | 149.7 | 94 | 86.4 | 84.8 | 95 | 121.1 | 147.2 |
| KIAA1958 | 175.9 | 249.4 | 128.1 | 104.6 | 110.9 | 106.1 | 163.9 | 161.6 |
| KIAA1961 | 82.8 | 93.7 | 87.5 | 79.5 | 75.9 | 81.8 | 83.3 | 98.2 |
| KIAA1961 | 402.8 | 667.4 | 390.4 | 497.6 | 483.3 | 778.4 | 434.8 | 745.3 |
| KIAA1967 | 461.2 | 648.4 | 401.7 | 296.8 | 247.9 | 497.2 | 377.2 | 607 |
| KIAA1967 | 146.2 | 159.7 | 121.7 | 143.3 | 120.2 | 88.3 | 104 | 135.6 |
| KIAA1967 | 131.7 | 138.5 | 105.6 | 97.7 | 81.6 | 88.5 | 124.8 | 166.6 |
| KIAA1970 | 451.5 | 590.7 | 432.6 | 356.9 | 225.2 | 505.9 | 308.4 | 542.4 |
| KIAA1984 | 95.6 | 105.3 | 106.7 | 97.3 | 93.2 | 97.2 | 100 | 103 |
| KIAA2010 | 100.7 | 119.9 | 99.4 | 89.7 | 81.6 | 81 | 104.4 | 115.9 |
| KIAA2010 | 938.1 | 1271.6 | 691.3 | 500.2 | 411.7 | 843.8 | 776.5 | 1134.6 |
| KIAA2013 | 614.4 | 822.4 | 475.5 | 443.8 | 409.9 | 593.9 | 582.9 | 897.2 |
| KIAA2018 | 81.7 | 95.3 | 84.8 | 84.6 | 79.4 | 79.4 | 92.7 | 98.8 |

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|-----------|--------|--------|--------|--------|-------|--------|--------|--------|
| KIAA2022 | 83.2 | 100.3 | 88.9 | 102.3 | 95.5 | 100.2 | 92.9 | 111.3 |
| KIAA2026 | 269.8 | 383.8 | 334.8 | 441.2 | 384 | 716.1 | 300.1 | 539.6 |
| KIDINS220 | 783.4 | 1132.6 | 663.8 | 1101.9 | 847.9 | 1922.5 | 809.4 | 2011.2 |
| KIF11 | 758.9 | 911.2 | 441.5 | 319.2 | 288.9 | 499 | 726.8 | 1377.2 |
| KIF12 | 86.9 | 92.9 | 102.5 | 100.6 | 87.9 | 98.2 | 90.6 | 92.9 |
| KIF13A | 87.5 | 95 | 105.6 | 93.2 | 85.8 | 95.5 | 93.3 | 90.1 |
| KIF13B | 176.8 | 236.9 | 231.5 | 229.8 | 201.6 | 299.9 | 187.2 | 344.2 |
| KIF14 | 843.3 | 986.9 | 466.1 | 426.2 | 417.3 | 618.1 | 797.9 | 1195.5 |
| KIF15 | 992.4 | 1169.3 | 612 | 715.6 | 611 | 1078.7 | 667.8 | 1091.2 |
| KIF17 | 306.7 | 410.9 | 329.3 | 212.1 | 174.3 | 220.1 | 283.7 | 484.3 |
| KIF18A | 289.7 | 326.4 | 153.3 | 131 | 116.9 | 155.4 | 235.2 | 333 |
| KIF19 | 83.7 | 92 | 98.8 | 97.8 | 89.9 | 96.1 | 93.7 | 106.1 |
| KIF1A | 84.9 | 89.8 | 85.2 | 78.9 | 76.2 | 81.2 | 80.1 | 93.2 |
| KIF1B | 113.6 | 128.8 | 102.8 | 92.7 | 96.8 | 97.1 | 111.2 | 113.7 |
| KIF1B | 116.5 | 160.5 | 96.9 | 93.8 | 99.9 | 120.2 | 160.3 | 148.7 |
| KIF1B | 192.5 | 266.5 | 169.4 | 310.2 | 229.3 | 351 | 197.7 | 227.6 |
| KIF1C | 129.6 | 127.3 | 97.5 | 101.1 | 89.7 | 129.9 | 109 | 161.2 |
| KIF2 | 740 | 1030.5 | 686.7 | 687.5 | 520.9 | 1012.2 | 624 | 1115.4 |
| KIF20A | 1078 | 1338.7 | 977.2 | 913 | 884.2 | 1225 | 729.3 | 1016 |
| KIF21A | 150.3 | 175.9 | 105.9 | 98.8 | 87.9 | 132.9 | 153.2 | 204 |
| KIF21B | 78.3 | 72.4 | 94.6 | 88.4 | 80.7 | 77.7 | 74.5 | 88.4 |
| KIF21B | 155.6 | 210.3 | 129.6 | 108.1 | 95.3 | 98 | 193.3 | 271.7 |
| KIF23 | 140 | 180.2 | 102.4 | 93.8 | 92.5 | 99 | 121.8 | 145.2 |
| KIF23 | 683.7 | 813.4 | 249.9 | 242 | 218.4 | 295.7 | 441.1 | 674.2 |
| KIF25 | 69.6 | 82.9 | 91.3 | 90.8 | 83.8 | 85.9 | 76.4 | 78.3 |
| KIF25 | 134.6 | 166.7 | 112.7 | 96.8 | 93.2 | 116.2 | 132.5 | 148.8 |
| KIF26B | 78.4 | 83.4 | 100.6 | 85 | 75.2 | 90.4 | 80 | 80.4 |
| KIF27 | 120.5 | 131 | 115.8 | 100.9 | 111.2 | 114.3 | 115.6 | 134.5 |
| KIF27 | 107.3 | 113.1 | 93.2 | 93.5 | 79.8 | 89.8 | 87.5 | 102 |
| KIF2B | 87.6 | 89 | 96.1 | 94 | 91.1 | 84.5 | 84.9 | 93.5 |
| KIF2C | 1094.9 | 1328.5 | 762.2 | 608.5 | 571.5 | 722.3 | 866.6 | 1055.6 |
| KIF3A | 81.1 | 91.3 | 89.2 | 79.2 | 80.8 | 86.9 | 83.4 | 81.9 |
| KIF3B | 293.9 | 395.4 | 289.1 | 318.2 | 272.5 | 406.5 | 251.1 | 525.5 |
| KIF3C | 102.3 | 116.4 | 108.5 | 98.2 | 96.1 | 109.6 | 112.9 | 138.9 |
| KIF4A | 356.7 | 501.6 | 308.3 | 371.4 | 355.5 | 626.1 | 311.9 | 445.1 |
| KIF5A | 87.8 | 101.9 | 103.4 | 84.5 | 91 | 100.3 | 94.6 | 93.9 |
| KIF5B | 657.6 | 960.2 | 414.2 | 352.4 | 282.7 | 621.6 | 549.4 | 701 |
| KIF5C | 100.9 | 115.8 | 99.8 | 108.9 | 84.1 | 92.6 | 85.6 | 117.4 |
| KIF6 | 190.7 | 202.2 | 115.5 | 117.3 | 101.5 | 119.2 | 164.8 | 183.7 |
| KIF7 | 121.3 | 130.4 | 127.3 | 200.8 | 110.6 | 245.4 | 107 | 139 |
| KIF9 | 97.4 | 111.4 | 98.8 | 90.8 | 83.6 | 86.7 | 110.3 | 106.9 |
| KIFAP3 | 384.5 | 460.7 | 238.9 | 245.7 | 189.2 | 262.6 | 325.5 | 375.4 |
| KIFC1 | 2097.7 | 2732 | 2445.8 | 2532 | 2419 | 3338.3 | 1880.1 | 2528.6 |
| KIFC2 | 315.1 | 261.5 | 243.9 | 179 | 196.1 | 279.2 | 251.3 | 451.3 |
| KIFC3 | 120.9 | 135.9 | 100.4 | 95 | 87.3 | 91.1 | 113.4 | 130.9 |
| KIN | 93.1 | 116.7 | 112.7 | 106.9 | 103.3 | 106 | 93.6 | 99 |
| KIR2DL1 | 98.6 | 102.4 | 87.3 | 97.4 | 90.4 | 91.9 | 95.2 | 97.8 |
| KIR2DL3 | 81.6 | 92 | 101.9 | 100.1 | 92 | 99.2 | 82.6 | 89.2 |
| KIR2DL3 | 131.3 | 171.5 | 118.1 | 92.9 | 86.1 | 104.9 | 130 | 153.4 |
| KIR2DL4 | 89.9 | 107.9 | 99.1 | 89.1 | 86.4 | 91.6 | 84.1 | 97.1 |

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|----------|-------|--------|-------|-------|-------|--------|-------|--------|
| KIR2DL5A | 95.1 | 106.5 | 91.2 | 90.6 | 88.2 | 95.8 | 97.9 | 104.2 |
| KIR2DL5A | 90.4 | 89.7 | 101 | 94.6 | 86.1 | 91.2 | 80.3 | 95.2 |
| KIR2DL5A | 89.1 | 87.6 | 96.2 | 84.9 | 86.5 | 84.2 | 81.2 | 88.4 |
| KIR2DL5B | 85.7 | 105.5 | 88.5 | 79.4 | 76.3 | 81.5 | 83.2 | 113.8 |
| KIR2DS1 | 84.2 | 80.8 | 91.3 | 81.3 | 91.1 | 87.4 | 75.4 | 81.6 |
| KIR2DS3 | 75.5 | 81.5 | 103.2 | 91.1 | 82.6 | 87.2 | 80.4 | 80.4 |
| KIR2DS4 | 127 | 144 | 90.6 | 89.2 | 79.2 | 99.8 | 133.6 | 143.2 |
| KIR2DS5 | 94.5 | 102.1 | 96.5 | 92.3 | 89.4 | 82.7 | 92 | 96.6 |
| KIR3DL1 | 103.4 | 107 | 96.8 | 89 | 85.7 | 97.2 | 105.6 | 114.3 |
| KIR3DL2 | 93.7 | 98.9 | 98.3 | 94.1 | 86.1 | 94.3 | 100.1 | 98.4 |
| KIR3DL3 | 98 | 105.2 | 97.9 | 86.3 | 86.9 | 88.3 | 95.4 | 106.9 |
| KIR3DP1 | 118.4 | 134.7 | 104.5 | 97.7 | 88 | 102.5 | 121.3 | 138.1 |
| KIRREL | 96 | 96.6 | 95.3 | 88.3 | 86.1 | 88.6 | 100.4 | 115.5 |
| KIRREL2 | 113.3 | 119.8 | 114.8 | 88.6 | 91 | 88.5 | 110.4 | 156 |
| KIRREL2 | 107.9 | 131.1 | 110.8 | 98.3 | 86.9 | 98.2 | 105 | 114.7 |
| KIRREL2 | 86.3 | 82.4 | 122.5 | 103 | 114 | 96.4 | 78.8 | 93.5 |
| KIRREL3 | 91.7 | 92.2 | 88.4 | 76.5 | 83.8 | 86.1 | 81.9 | 97 |
| KISS1 | 93.4 | 98.8 | 100.3 | 102.4 | 95.8 | 102.3 | 86.3 | 89 |
| KISS1R | 108.5 | 132.2 | 99.1 | 95 | 101.3 | 94.9 | 101.4 | 102.6 |
| KIT | 157 | 169 | 128.9 | 138.6 | 126.8 | 163.4 | 138.9 | 169.4 |
| KITLG | 140 | 171.6 | 111.8 | 139.7 | 96.6 | 157.1 | 192.7 | 372.2 |
| KITLG | 84.6 | 97.5 | 95.1 | 85.5 | 87.2 | 92.6 | 85.3 | 93.7 |
| KL | 115.7 | 141 | 118.7 | 125.8 | 111.5 | 128.5 | 120.1 | 150.7 |
| KLB | 108.5 | 134.5 | 104.6 | 109.1 | 88.3 | 100.1 | 112.1 | 123.3 |
| KLC2 | 86.1 | 96.3 | 97.3 | 82.7 | 81.6 | 87 | 93.3 | 94.3 |
| KLC2 | 116.4 | 110.7 | 115.5 | 100.6 | 99.6 | 103.1 | 106.7 | 109.7 |
| KLC3 | 103.4 | 114.9 | 85.2 | 84.5 | 80.6 | 88.4 | 95.5 | 109 |
| KLC3 | 83.7 | 99.4 | 90.5 | 87.8 | 85.7 | 85.5 | 80.7 | 102.4 |
| KLC4 | 118.3 | 155.8 | 97.7 | 103.5 | 92.8 | 91.3 | 122.3 | 130.9 |
| KLC4 | 92.1 | 108.5 | 80.5 | 80.7 | 80.4 | 83 | 97 | 103.7 |
| KLC4 | 101.4 | 130.9 | 89.5 | 84.3 | 74.8 | 80.8 | 111.5 | 135.8 |
| KLF1 | 104.8 | 116 | 100.7 | 100.7 | 89.9 | 97.8 | 108.4 | 127.2 |
| KLF10 | 142.8 | 165.3 | 115.1 | 140.3 | 147.8 | 163.9 | 132.2 | 166.4 |
| KLF10 | 154.7 | 199.5 | 109.7 | 106 | 100.6 | 114.1 | 160 | 217.4 |
| KLF10 | 194 | 236.3 | 116.4 | 129 | 100.4 | 104.5 | 171.5 | 230.7 |
| KLF11 | 239.4 | 311.3 | 141.4 | 141 | 128.2 | 156 | 255.2 | 315.8 |
| KLF11 | 926.8 | 1244.7 | 622 | 786.8 | 706.9 | 626 | 843.7 | 911.2 |
| KLF12 | 121.6 | 135.7 | 92.4 | 117.2 | 102.4 | 136.1 | 106.5 | 136.8 |
| KLF12 | 77.6 | 92.2 | 98.2 | 96.5 | 93.4 | 97.5 | 79.5 | 83.3 |
| KLF13 | 500 | 679.8 | 538.4 | 827.8 | 658.6 | 1147.3 | 486.9 | 603 |
| KLF14 | 84 | 90.4 | 86.1 | 93.8 | 85.9 | 81.3 | 90.3 | 91.4 |
| KLF15 | 146.6 | 173.2 | 140.1 | 107.2 | 104.7 | 119.3 | 133.4 | 124.7 |
| KLF16 | 91.1 | 96.3 | 86.5 | 82.5 | 83.6 | 83.6 | 80.8 | 91.8 |
| KLF17 | 95.2 | 102.9 | 91.8 | 91.6 | 88.5 | 86 | 101.7 | 113.6 |
| KLF2 | 452.6 | 557.6 | 254.9 | 146.3 | 162.1 | 143.1 | 441.6 | 662.5 |
| KLF3 | 96.5 | 111.9 | 97.7 | 88.2 | 82.6 | 101.9 | 101.2 | 111.9 |
| KLF4 | 360.2 | 401.8 | 306.8 | 280.5 | 215.5 | 372.7 | 244.8 | 711.7 |
| KLF5 | 87.4 | 94.7 | 84.9 | 87 | 96.7 | 91.6 | 93.8 | 102.6 |
| KLF6 | 318.1 | 490.4 | 137.4 | 151.4 | 156.6 | 183.7 | 404.9 | 487.5 |
| KLF6 | 526.2 | 799.8 | 351.2 | 376.5 | 359.3 | 385.7 | 749 | 1125.2 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| KLF7 | 104.3 | 126.1 | 94.5 | 84.8 | 80.9 | 96.3 | 106 | 122.4 |
| KLF8 | 200.2 | 228.6 | 146.2 | 128 | 117.6 | 136 | 158.4 | 187.4 |
| KLF9 | 782.1 | 1006.2 | 580.1 | 643.5 | 532.7 | 692.5 | 852 | 1095.2 |
| KLHDC1 | 78.6 | 79.2 | 99.5 | 85.9 | 83 | 76.1 | 81.9 | 82 |
| KLHDC2 | 668.3 | 889.8 | 288.5 | 264.2 | 232.3 | 315.5 | 583.8 | 684.4 |
| KLHDC3 | 5370.7 | 6447.1 | 2652.1 | 1994.9 | 2093.8 | 2228.9 | 4806.9 | 6216.2 |
| KLHDC4 | 446.6 | 636.7 | 298.5 | 184.6 | 167.5 | 217.9 | 428.8 | 607 |
| KLHDC5 | 822.4 | 953.1 | 454.6 | 528 | 400.8 | 671.7 | 702.1 | 1215.7 |
| KLHDC6 | 91.9 | 94.3 | 89.2 | 75.7 | 79.9 | 79.1 | 87.1 | 82.1 |
| KLHDC7A | 105.9 | 122.7 | 103.7 | 101 | 108.5 | 98.1 | 82.5 | 98.1 |
| KLHDC7B | 79.1 | 88.5 | 92 | 89.4 | 83.4 | 77.1 | 86.5 | 97 |
| KLHDC8A | 109.9 | 132.4 | 81.8 | 76.1 | 72.9 | 83.4 | 103.2 | 122.3 |
| KLHDC8B | 133 | 154.3 | 161.7 | 239 | 269.3 | 366.6 | 157.5 | 179.4 |
| KLHL1 | 89.5 | 106.4 | 105.1 | 94.9 | 91.4 | 96 | 91.2 | 94.7 |
| KLHL10 | 85.8 | 101.6 | 96.3 | 91.4 | 89.3 | 92 | 91.1 | 95.9 |
| KLHL11 | 90.2 | 101.9 | 111.3 | 93 | 95.6 | 98.3 | 89.3 | 94.8 |
| KLHL12 | 1781.7 | 2276.7 | 1139 | 1086.7 | 849.3 | 1499.1 | 1592.6 | 2162.1 |
| KLHL13 | 127.5 | 142.1 | 103.5 | 92.1 | 94.6 | 112 | 110.3 | 118.2 |
| KLHL14 | 83.6 | 88.2 | 91.4 | 78.1 | 84.7 | 89.2 | 87.9 | 84.9 |
| KLHL15 | 99.6 | 106.7 | 101.1 | 96.6 | 90.7 | 104.8 | 98 | 104.9 |
| KLHL17 | 89.4 | 103.7 | 103.6 | 95.4 | 81.8 | 88.7 | 93.9 | 105.9 |
| KLHL17 | 137.9 | 181.3 | 153.9 | 132.6 | 128.3 | 204.2 | 107.1 | 169.4 |
| KLHL18 | 198 | 189.7 | 131 | 137.2 | 108.4 | 133 | 192.1 | 271.2 |
| KLHL2 | 311.6 | 366.8 | 177.4 | 169.1 | 129.3 | 182.4 | 320.6 | 606.2 |
| KLHL20 | 410.3 | 509.8 | 249.7 | 322.7 | 287.8 | 443.4 | 357.8 | 709.1 |
| KLHL21 | 149.6 | 155.8 | 155.3 | 133.6 | 101.8 | 166.2 | 155.2 | 243.7 |
| KLHL22 | 717 | 952.3 | 508.7 | 524.6 | 473.5 | 483 | 563.7 | 408.6 |
| KLHL23 | 146.8 | 228.5 | 118.9 | 106.1 | 100.9 | 92 | 132.2 | 155 |
| KLHL25 | 133.2 | 136.1 | 98.7 | 93.2 | 88.7 | 91.5 | 120.3 | 136.9 |
| KLHL26 | 139 | 147.3 | 136.5 | 133.1 | 99.7 | 123.8 | 127.7 | 187.2 |
| KLHL3 | 183.2 | 225.7 | 178.8 | 189.1 | 174.1 | 235.9 | 164.5 | 173.3 |
| KLHL4 | 75.9 | 88.1 | 86 | 77.1 | 74.9 | 85.6 | 77.2 | 93.3 |
| KLHL4 | 95.3 | 94.8 | 108.1 | 92.2 | 92.5 | 90.4 | 91.6 | 95.9 |
| KLHL5 | 93.5 | 113.6 | 97.8 | 91.9 | 93.5 | 87.3 | 106.7 | 105.1 |
| KLHL5 | 497.7 | 666.6 | 544.1 | 520.6 | 523.5 | 722.4 | 522.8 | 937.1 |
| KLHL5 | 329.8 | 464.6 | 227.4 | 197.2 | 212.5 | 270.5 | 283.1 | 419.7 |
| KLHL7 | 189.9 | 240.7 | 166.7 | 175 | 167.2 | 253.3 | 181.5 | 245.9 |
| KLHL7 | 111 | 136.9 | 109.1 | 114.1 | 98.6 | 114.1 | 106.4 | 132.4 |
| KLHL8 | 873.9 | 1246 | 673.3 | 707.8 | 581.6 | 797.8 | 1052.5 | 1112.2 |
| KLHL9 | 94.9 | 94.6 | 90.4 | 86.5 | 75.8 | 86.5 | 97 | 84.4 |
| KLK1 | 201.1 | 253.9 | 177.1 | 127.5 | 113.1 | 134.6 | 178.4 | 228.4 |
| KLK10 | 87.7 | 87.1 | 82.5 | 80.7 | 74.5 | 84.7 | 83.5 | 91.5 |
| KLK10 | 124.3 | 106.6 | 111.1 | 99.3 | 103.1 | 89.3 | 91 | 108.6 |
| KLK11 | 107.8 | 120.7 | 99.6 | 98.6 | 94 | 98.8 | 99 | 113.6 |
| KLK11 | 96.6 | 96.7 | 97.2 | 97.9 | 87.6 | 85.1 | 105 | 96.6 |
| KLK12 | 128.9 | 167.7 | 94.5 | 80.7 | 89.8 | 90.1 | 132 | 137.5 |
| KLK12 | 91.4 | 108.1 | 85.3 | 75.3 | 81.4 | 76 | 96 | 120.9 |
| KLK13 | 83.9 | 76.8 | 88.5 | 82.6 | 94.8 | 74 | 73.8 | 84.7 |
| KLK14 | 89.9 | 97.5 | 102 | 89.1 | 86.4 | 97.6 | 96.9 | 104.2 |
| KLK15 | 99.8 | 96.8 | 89.2 | 97.1 | 86.3 | 87.7 | 97.6 | 104.6 |

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|--------|---------|---------|--------|--------|--------|--------|---------|---------|
| KLK15 | 81.6 | 89.9 | 99 | 83.8 | 81.3 | 88.9 | 84.9 | 93.7 |
| KLK15 | 103.8 | 120.8 | 91.4 | 87.9 | 91.7 | 87 | 98 | 115.6 |
| KLK2 | 117.2 | 129.5 | 91.2 | 99.1 | 91.8 | 93.4 | 117.9 | 122.1 |
| KLK2 | 104.8 | 138.3 | 101 | 84.6 | 92 | 94.3 | 106.1 | 138.5 |
| KLK3 | 78.6 | 90.9 | 86.3 | 71.9 | 75.3 | 77.2 | 85.1 | 97.5 |
| KLK3 | 87.7 | 99.8 | 80.3 | 88.6 | 76.1 | 77.4 | 91.9 | 105.7 |
| KLK3 | 104.8 | 127.5 | 92.8 | 81.4 | 86.3 | 81.8 | 96.7 | 135.9 |
| KLK4 | 86.7 | 99.3 | 88.9 | 83.8 | 84.5 | 84.4 | 83.1 | 85.8 |
| KLK5 | 94 | 101.8 | 81 | 83.3 | 87 | 83.1 | 84.4 | 102.1 |
| KLK5 | 101.6 | 128.7 | 84.5 | 77.2 | 84.8 | 80.9 | 90.6 | 134.3 |
| KLK5 | 89.1 | 98 | 100.3 | 89.6 | 91.2 | 80.8 | 88.7 | 106.7 |
| KLK6 | 90.2 | 90.9 | 96.9 | 86.7 | 81.3 | 83.3 | 90.7 | 79.3 |
| KLK6 | 129.5 | 140.7 | 93.5 | 86.7 | 79 | 87.2 | 115.5 | 149.4 |
| KLK7 | 103.4 | 109 | 104.1 | 96 | 96.7 | 89.4 | 106 | 97.4 |
| KLK7 | 117.8 | 129.2 | 125.9 | 113.1 | 112.6 | 125.7 | 113.3 | 125.6 |
| KLK8 | 94.4 | 120.2 | 98.5 | 84.4 | 88.4 | 96.3 | 101 | 98.9 |
| KLK8 | 96.7 | 118.5 | 95.8 | 92.7 | 83.8 | 92.4 | 105.2 | 113.1 |
| KLK9 | 85.6 | 93.1 | 86.7 | 88.3 | 74 | 80.7 | 80.7 | 85.3 |
| KLKB1 | 130.1 | 154.9 | 86.8 | 85.4 | 91.5 | 92.3 | 116.6 | 120.1 |
| KLKBL4 | 82.7 | 81.5 | 82.3 | 85.5 | 78.2 | 83.1 | 88.8 | 95.1 |
| KLKP1 | 89.3 | 100.3 | 88.9 | 91.1 | 85 | 80.8 | 87.5 | 100.9 |
| KLP1 | 295.6 | 412.4 | 170.3 | 112.9 | 127.6 | 156.8 | 252.6 | 312.5 |
| KLRA1 | 99.4 | 131.6 | 91.5 | 105.5 | 90.2 | 103 | 106.7 | 125.9 |
| KLRB1 | 75.4 | 87.5 | 93.6 | 78.9 | 91.6 | 89.4 | 75.3 | 84.1 |
| KLRC1 | 78.6 | 86.6 | 103.9 | 85.2 | 78.9 | 90.6 | 76.1 | 95.1 |
| KLRC2 | 115.6 | 154.3 | 93.5 | 85.3 | 77.4 | 81.6 | 117 | 129.6 |
| KLRC3 | 78.8 | 87.4 | 95.6 | 80.8 | 92.4 | 87.9 | 86.7 | 88.8 |
| KLRC3 | 82.4 | 96.4 | 103.1 | 85.5 | 91.1 | 95.6 | 87.6 | 87.5 |
| KLRC3 | 76.4 | 89.6 | 85.7 | 87.8 | 77.1 | 93 | 85.8 | 88 |
| KLRC4 | 122.1 | 129.6 | 114.9 | 94.1 | 94 | 96.4 | 125.6 | 123.8 |
| KLRD1 | 83.8 | 90.3 | 85.1 | 83.2 | 79 | 83.9 | 81.8 | 88.5 |
| KLRD1 | 86 | 86.6 | 93.2 | 84.2 | 89.5 | 91.1 | 89.2 | 95.4 |
| KLRF1 | 118.9 | 124.4 | 105 | 117.4 | 102.5 | 123.8 | 108.4 | 114.4 |
| KLRG1 | 83.8 | 103.2 | 94.4 | 91.6 | 78.9 | 85 | 100.6 | 88.2 |
| KLRG2 | 159.9 | 209.3 | 139.9 | 115.9 | 110.8 | 122.6 | 131.5 | 167.8 |
| KLRK1 | 130.2 | 139.7 | 100.5 | 99.7 | 106.5 | 105.3 | 119.4 | 117.3 |
| KMO | 127 | 175.9 | 99.5 | 113.6 | 103.5 | 110 | 137.4 | 163.1 |
| KNDC1 | 102.7 | 121 | 91 | 93.3 | 94.3 | 83.9 | 107.7 | 115.8 |
| KNDC1 | 100 | 114.7 | 103.3 | 92.9 | 84.1 | 88.7 | 90.4 | 100.8 |
| KNG1 | 93.8 | 103.5 | 98.9 | 98.7 | 90.4 | 96.1 | 99 | 106.8 |
| KNS2 | 235.9 | 322.1 | 183.3 | 162.9 | 134.1 | 175.1 | 224.5 | 225.3 |
| KNS2 | 392.7 | 552 | 316.3 | 247.5 | 219.8 | 309.1 | 402.2 | 550 |
| KNTC1 | 987.1 | 1117.6 | 770.2 | 1189.3 | 1125.1 | 1529.7 | 779.3 | 870.6 |
| KNTC2 | 968 | 1132.5 | 423.6 | 395.6 | 296.6 | 550.4 | 866.7 | 1409.2 |
| KPNA2 | 306.6 | 390.8 | 163.9 | 143.6 | 147.2 | 140.3 | 258.6 | 520.9 |
| KPNA3 | 663.3 | 894.1 | 316.8 | 393.5 | 269 | 534.1 | 568 | 1682.1 |
| KPNA4 | 1568 | 1867.3 | 1097.3 | 1138.2 | 850.7 | 2029.2 | 1438.5 | 2011.3 |
| KPNA5 | 157.8 | 172.9 | 117.1 | 122.5 | 129.4 | 123.5 | 133.8 | 173.1 |
| KPNA6 | 400.1 | 538.4 | 617.9 | 986.8 | 822.1 | 1601.3 | 368.2 | 846.6 |
| KPNB1 | 11805.9 | 13311.6 | 6479.3 | 7015.9 | 5211.1 | 9771.3 | 11353.9 | 14420.8 |

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|-----------|-------|--------|--------|--------|--------|--------|--------|--------|
| KPTN | 110.8 | 124.3 | 97.7 | 88.2 | 84.1 | 86.9 | 96.3 | 115.1 |
| KRAS | 322.7 | 415.5 | 275.3 | 237 | 208.2 | 293.8 | 312.4 | 531.2 |
| KRAS | 92.6 | 107.3 | 100.2 | 85.6 | 94.7 | 91.1 | 92 | 110 |
| KRCC1 | 549.8 | 720.6 | 223.1 | 204.2 | 171.3 | 336.8 | 503.9 | 987.1 |
| KREMEN1 | 120.1 | 129.8 | 92.5 | 85.8 | 77.6 | 79.2 | 120 | 132.8 |
| KREMEN1 | 207.9 | 265.2 | 140.3 | 119.1 | 109.9 | 126.6 | 209.4 | 256.3 |
| KREMEN2 | 107.5 | 129 | 93.2 | 85.9 | 79.2 | 81.8 | 92.5 | 133.4 |
| KREMEN2 | 233.6 | 282.8 | 245 | 156.2 | 144.1 | 183.5 | 161.1 | 196.3 |
| KRIT1 | 84.8 | 104.5 | 96 | 103.1 | 86.5 | 103.4 | 89.9 | 96.4 |
| KRT1 | 80 | 93.1 | 82.3 | 84.3 | 83.2 | 85.6 | 88.6 | 84.1 |
| KRT10 | 1767 | 2324.4 | 1339.7 | 1223.9 | 1004.6 | 1408.6 | 1755.9 | 2070.3 |
| KRT12 | 110.5 | 138.1 | 113 | 89.5 | 85.2 | 89.6 | 109.2 | 134.4 |
| KRT13 | 89.5 | 106 | 91.3 | 93.5 | 91 | 92.1 | 100.8 | 98.1 |
| KRT14 | 77.8 | 83.1 | 107.6 | 88.7 | 85.2 | 84.6 | 76.7 | 81 |
| KRT15 | 104 | 106.6 | 97.5 | 94.2 | 95.6 | 79 | 94.9 | 105.6 |
| KRT16 | 110 | 113.3 | 96.8 | 102.5 | 89.4 | 89.8 | 116.2 | 142.9 |
| KRT17 | 94.4 | 97.6 | 93.1 | 136 | 142.5 | 163.8 | 94.4 | 101.3 |
| KRT18 | 74.3 | 88.4 | 81.2 | 76 | 89.7 | 77.7 | 78.4 | 82.1 |
| KRT18 | 92.3 | 90.3 | 98.4 | 82.4 | 91.7 | 97.8 | 90 | 100.7 |
| KRT19 | 90.9 | 83.8 | 97.2 | 77.9 | 79.5 | 88.3 | 87.5 | 93.3 |
| KRT1B | 73.1 | 94 | 90.6 | 84.2 | 90.1 | 87.9 | 92.3 | 86.8 |
| KRT20 | 82.3 | 95.2 | 87.4 | 81.3 | 81.6 | 80.4 | 81.9 | 85.8 |
| KRT23 | 205.6 | 238.2 | 118.4 | 121.7 | 103.4 | 123.4 | 179.5 | 184.3 |
| KRT24 | 148.7 | 192.9 | 111.1 | 91.4 | 91.2 | 99.9 | 134.1 | 163.1 |
| KRT25A | 100.8 | 118.7 | 83.5 | 75.8 | 77.8 | 84.8 | 98.7 | 104.4 |
| KRT25C | 83.1 | 98 | 88.4 | 83.6 | 76.8 | 88.9 | 82.5 | 91.5 |
| KRT25D | 79.9 | 89.7 | 99.7 | 90.2 | 82.8 | 89.7 | 76.2 | 80.7 |
| KRT26 | 108.2 | 112.5 | 91.8 | 87.7 | 85.7 | 86.1 | 92 | 104.5 |
| KRT2A | 79.1 | 95.1 | 88.7 | 78.9 | 79.2 | 78.9 | 91.3 | 98.7 |
| KRT2B | 78.8 | 85.2 | 98.2 | 96.8 | 98.9 | 89.5 | 84.3 | 85.7 |
| KRT3 | 92.5 | 112.5 | 105.2 | 92.7 | 90.7 | 94.4 | 92.4 | 96.5 |
| KRT33A | 97.4 | 101.4 | 112.1 | 94.7 | 99.3 | 95.6 | 97.1 | 103.9 |
| KRT39 | 80.8 | 79 | 96 | 85.9 | 75 | 87.7 | 80.9 | 74.3 |
| KRT4 | 102.9 | 113.6 | 89.4 | 94 | 78.7 | 82.7 | 87.3 | 111.1 |
| KRT40 | 79.7 | 87.9 | 81.2 | 79.2 | 76.1 | 82 | 91.7 | 88.7 |
| KRT5 | 77.2 | 81.7 | 95.3 | 84.2 | 88.7 | 86.6 | 79.6 | 88.6 |
| KRT6A | 103.5 | 105.6 | 100.5 | 94.9 | 94.3 | 98.7 | 98.3 | 96.8 |
| KRT6B | 75.8 | 83.2 | 98.1 | 90.6 | 85.5 | 80.9 | 81.6 | 96.7 |
| KRT6E | 78.9 | 83.2 | 96.2 | 92.3 | 81.7 | 82.1 | 71.3 | 75 |
| KRT6IRS | 91.2 | 108.9 | 88.5 | 87.3 | 85.4 | 82.2 | 91.5 | 101.7 |
| KRT6L | 79.7 | 82.3 | 96.6 | 94.4 | 99.6 | 87.4 | 74.8 | 88.1 |
| KRT7 | 86.4 | 97.8 | 93.1 | 87.3 | 86.5 | 87.4 | 102.9 | 101.1 |
| KRT8 | 80.2 | 104.9 | 96.9 | 90.4 | 80.5 | 103.3 | 94 | 92 |
| KRT86 | 78.2 | 84.8 | 91.1 | 100.6 | 90 | 95.1 | 83 | 89.3 |
| KRT9 | 111.2 | 122.8 | 121.7 | 116.3 | 102.8 | 106.7 | 101.4 | 124.2 |
| KRTAP10-1 | 80.2 | 101.2 | 87.4 | 87.1 | 81.6 | 91.6 | 79.9 | 96.6 |
| KRTAP10-1 | 99.2 | 104.4 | 121.2 | 100.4 | 102.2 | 104 | 105.1 | 114.4 |
| KRTAP10-1 | 128.9 | 140.4 | 99.6 | 97.6 | 101.9 | 116.8 | 122.9 | 152.1 |
| KRTAP10-1 | 79.5 | 89.5 | 88.5 | 76.1 | 76.9 | 79.5 | 74.2 | 92.1 |
| KRTAP10-2 | 129.7 | 131.9 | 104.2 | 107.7 | 89.3 | 96.3 | 124.3 | 125.4 |

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|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| KRTAP10-2 | 68.5 | 83.5 | 97.3 | 81.5 | 78.6 | 85.5 | 78.4 | 84.7 |
| KRTAP10-3 | 80.9 | 81.4 | 95.5 | 93.2 | 83.1 | 96 | 87.8 | 90.1 |
| KRTAP10-4 | 114.4 | 124.4 | 95.6 | 85.4 | 88.5 | 89.4 | 105.9 | 124.4 |
| KRTAP10-5 | 133.6 | 162 | 78.4 | 87.9 | 88.2 | 79.9 | 122 | 152.7 |
| KRTAP10-7 | 87.5 | 89.9 | 92.4 | 77.5 | 78.1 | 80.9 | 83.2 | 84.5 |
| KRTAP10-8 | 98.5 | 96.5 | 87 | 88 | 81.2 | 87.6 | 90.6 | 84.5 |
| KRTAP10-9 | 100.9 | 117.6 | 112.8 | 111.3 | 104.2 | 105.2 | 96.2 | 102 |
| KRTAP1-1 | 76.7 | 85.6 | 83.8 | 83.6 | 80.3 | 73.1 | 90.7 | 87.6 |
| KRTAP11-1 | 95.8 | 104.3 | 90.1 | 77.4 | 84.6 | 80.5 | 91.7 | 111.1 |
| KRTAP12-1 | 82.6 | 93 | 108.7 | 97.2 | 86.8 | 93.4 | 82.6 | 85.2 |
| KRTAP12-2 | 93.9 | 110 | 94.6 | 88.2 | 80 | 94.6 | 96 | 104.3 |
| KRTAP12-3 | 82.9 | 94.4 | 98.6 | 88.5 | 83.1 | 79.2 | 85.7 | 93.7 |
| KRTAP12-4 | 108 | 109.2 | 106.4 | 89.9 | 92.9 | 91.3 | 108.9 | 107.2 |
| KRTAP1-3 | 95.2 | 99.9 | 102.3 | 95.7 | 85.7 | 92.4 | 94.3 | 105.5 |
| KRTAP13-1 | 75.9 | 95.8 | 99.8 | 94.6 | 84.1 | 94.3 | 77.9 | 85.9 |
| KRTAP13-2 | 86.6 | 94.6 | 89.4 | 83.6 | 86.1 | 78.2 | 90.4 | 100.2 |
| KRTAP13-3 | 80.7 | 98.4 | 89.2 | 98.9 | 81 | 91.1 | 88.4 | 88.6 |
| KRTAP13-4 | 81.2 | 95.5 | 100.3 | 89.4 | 81.6 | 91.7 | 92.9 | 95 |
| KRTAP15-1 | 96.8 | 98.1 | 96 | 75.9 | 86.4 | 87.2 | 93 | 94.4 |
| KRTAP17-1 | 97 | 106.2 | 95.3 | 83.5 | 93.7 | 87.6 | 99.1 | 105.1 |
| KRTAP19-1 | 97.3 | 106.7 | 90.9 | 84 | 83.6 | 79.6 | 94.8 | 99.6 |
| KRTAP19-2 | 92.2 | 106.4 | 90.4 | 88.4 | 85.5 | 85 | 97.1 | 87.5 |
| KRTAP19-3 | 80.9 | 99.3 | 101.5 | 87 | 77.5 | 83.8 | 89.9 | 97 |
| KRTAP19-4 | 94.5 | 105.2 | 99.6 | 87.5 | 97 | 87.6 | 91.9 | 100.4 |
| KRTAP19-5 | 93.9 | 135.4 | 83.9 | 81.9 | 75.6 | 85.1 | 107.4 | 131.2 |
| KRTAP19-6 | 208.6 | 234 | 134.1 | 120.1 | 107.6 | 122.8 | 186.3 | 225.5 |
| KRTAP19-7 | 117 | 133.2 | 90.6 | 101.1 | 81 | 93.3 | 119.7 | 123.8 |
| KRTAP20-1 | 78.6 | 90 | 91 | 83.2 | 76.9 | 82.2 | 83.1 | 82.3 |
| KRTAP20-2 | 116.7 | 140.4 | 95.8 | 93.5 | 90.9 | 96.9 | 105.5 | 112.3 |
| KRTAP21-1 | 95.6 | 94.4 | 100.2 | 104.1 | 92.1 | 92.7 | 83.1 | 90.7 |
| KRTAP21-2 | 87.2 | 87.8 | 98.1 | 98.3 | 96.7 | 91.2 | 84.8 | 84.3 |
| KRTAP22-1 | 94 | 110 | 92.9 | 86.7 | 98.8 | 86.1 | 96.6 | 113.8 |
| KRTAP23-1 | 88.6 | 106.8 | 98.8 | 89.3 | 91 | 83.6 | 92.1 | 99 |
| KRTAP26-1 | 83.4 | 99.9 | 96.6 | 94.8 | 87.9 | 92.5 | 79.6 | 96.1 |
| KRTAP27-1 | 89.1 | 96 | 97.2 | 87.6 | 93 | 87.8 | 96.5 | 93.3 |
| KRTAP3-1 | 78 | 78.4 | 88.5 | 75.9 | 80.6 | 79.8 | 77.5 | 80 |
| KRTAP3-2 | 88.4 | 104.6 | 86.9 | 89.6 | 80.1 | 80.3 | 88.5 | 97.8 |
| KRTAP4-10 | 88.4 | 110 | 94 | 90.7 | 101.1 | 89.7 | 86.4 | 86.8 |
| KRTAP4-12 | 99.3 | 117.4 | 97.1 | 104 | 82.5 | 96.6 | 104.9 | 112.6 |
| KRTAP4-14 | 81.4 | 84.4 | 93.5 | 91.3 | 84.7 | 92.3 | 91.9 | 89.4 |
| KRTAP4-2 | 78.8 | 79.4 | 89 | 84.6 | 75.1 | 87.8 | 76.8 | 88 |
| KRTAP4-4 | 84.6 | 100.9 | 91.1 | 90.6 | 82.4 | 81.7 | 83.2 | 102.5 |
| KRTAP4-5 | 78.2 | 82.1 | 87.9 | 88.2 | 71 | 80.5 | 82.4 | 90.8 |
| KRTAP4-7 | 110.3 | 115 | 90.8 | 89 | 84.2 | 86.3 | 109.8 | 119.7 |
| KRTAP5-1 | 99.4 | 124.4 | 82.6 | 79 | 85.2 | 92.4 | 105.9 | 106.8 |
| KRTAP5-10 | 83.7 | 97.1 | 87.6 | 87 | 81 | 79 | 93.5 | 99.2 |
| KRTAP5-11 | 121.4 | 122.2 | 93.7 | 89.5 | 86.4 | 91 | 99.6 | 116.4 |
| KRTAP5-2 | 78.5 | 87.1 | 91.1 | 82.1 | 83.2 | 86.2 | 89.6 | 96.5 |
| KRTAP5-3 | 88.2 | 88.9 | 88.5 | 80.5 | 70.4 | 81.6 | 84.7 | 107.3 |
| KRTAP5-4 | 88.4 | 94.5 | 85.2 | 79.7 | 88.3 | 83.4 | 87.4 | 101.5 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| KRTAP5-5 | 77.7 | 86.8 | 78.9 | 78.6 | 84.6 | 82.1 | 82.1 | 83.3 |
| KRTAP5-6 | 77.3 | 98.7 | 83.9 | 81.2 | 72.9 | 87.8 | 86.6 | 85.3 |
| KRTAP5-7 | 81.4 | 96.6 | 96.3 | 99.3 | 82.8 | 92.3 | 75.7 | 95.3 |
| KRTAP5-8 | 78.1 | 87.1 | 87 | 91 | 75.9 | 79.2 | 79.2 | 86.2 |
| KRTAP5-9 | 95.8 | 113.7 | 91.4 | 86.8 | 90.8 | 88.5 | 97 | 130.7 |
| KRTAP6-1 | 95 | 117.5 | 90.6 | 94 | 86.1 | 93.3 | 101.5 | 107.1 |
| KRTAP6-2 | 97.5 | 103.8 | 95.9 | 89.4 | 89.1 | 97.2 | 96.2 | 105.4 |
| KRTAP6-3 | 94.6 | 103.3 | 90.7 | 82.4 | 84.4 | 81.5 | 94.9 | 99.3 |
| KRTAP8-1 | 91.7 | 97.5 | 87.7 | 83.9 | 80.1 | 78.4 | 86.5 | 97.6 |
| KRTAP9-3 | 73.8 | 79.7 | 99 | 82.9 | 84.4 | 93.4 | 77.8 | 83.4 |
| KRTAP9-4 | 92.5 | 113.7 | 98.7 | 96.3 | 94.7 | 95.7 | 93.8 | 105.5 |
| KRTCAP2 | 9013 | 9874.3 | 5885.7 | 3963.1 | 3518.9 | 3440.2 | 9703.6 | 7431.4 |
| KRTCAP3 | 139.7 | 176.9 | 104.5 | 93.5 | 81.3 | 91.7 | 145.1 | 164.5 |
| KRTHA2 | 99.6 | 118.5 | 83 | 82 | 84 | 92 | 116.4 | 106.5 |
| KRTHA3B | 83.9 | 92.1 | 93.7 | 90.7 | 79.1 | 81.8 | 90.4 | 97.1 |
| KRTHA4 | 93.8 | 93.1 | 105.3 | 92.2 | 88.6 | 84.1 | 87.8 | 97.8 |
| KRTHA5 | 80.8 | 81.6 | 91.2 | 95.2 | 86.4 | 91.7 | 65.9 | 81.6 |
| KRTHA6 | 108.3 | 123.9 | 96.3 | 95.8 | 87.4 | 95.2 | 112.5 | 124.1 |
| KRTHA7 | 136.7 | 144 | 91.5 | 82.8 | 82.2 | 77.3 | 130 | 144.3 |
| KRTHA8 | 79.5 | 102.3 | 101 | 92.5 | 96.9 | 87.6 | 81 | 87.1 |
| KRTHB1 | 134 | 152 | 97.4 | 94.9 | 88 | 86.1 | 124.7 | 133.6 |
| KRTHB2 | 85.7 | 90.8 | 89.4 | 87.2 | 81.1 | 85.8 | 90.3 | 96.6 |
| KRTHB3 | 95.7 | 100.7 | 124 | 106.7 | 112.1 | 114.6 | 85.6 | 91.1 |
| KRTHB4 | 89.8 | 98.4 | 89.8 | 81.3 | 86.9 | 81.5 | 87.9 | 101.2 |
| KRTHB5 | 83.7 | 95.9 | 99.6 | 85 | 89.3 | 99.5 | 93.6 | 88.4 |
| KSP37 | 97.3 | 102.7 | 96.6 | 90.3 | 85 | 92.9 | 94.6 | 110.9 |
| KSR1 | 104.8 | 119.8 | 101.1 | 95.4 | 85.4 | 95.6 | 108.7 | 114.9 |
| KSR2 | 91.6 | 111.7 | 100.5 | 89.3 | 82.6 | 79.8 | 85.1 | 95.9 |
| KTI12 | 647.2 | 844.9 | 322.4 | 262.9 | 220.5 | 412.3 | 550.5 | 874.4 |
| KTN1 | 1030.8 | 1470.2 | 461.7 | 564.2 | 338.9 | 1170.3 | 912.4 | 1833.6 |
| KTN1 | 175.5 | 218.2 | 175 | 207.9 | 174.2 | 351.3 | 162.8 | 243.9 |
| KUA | 822.8 | 982 | 444.9 | 415.5 | 365.1 | 431.9 | 732.1 | 840.7 |
| KUA-UEV | 637.8 | 864.8 | 122.1 | 123.9 | 91.6 | 123.4 | 515.4 | 667.7 |
| KY | 204.9 | 252.7 | 124.5 | 117.9 | 98.8 | 119.8 | 198.5 | 184.7 |
| KYNU | 1222.1 | 1603.1 | 566.9 | 1164 | 1216.7 | 1716.6 | 1035.6 | 2040.2 |
| KYNU | 643.3 | 982.2 | 343.8 | 539.1 | 552.4 | 836.3 | 462.3 | 640.6 |
| L1CAM | 131.5 | 151.3 | 106.7 | 109.2 | 96.5 | 101.7 | 138 | 159.7 |
| L1CAM | 248.1 | 271.4 | 141.1 | 131.6 | 110.2 | 119.1 | 214.5 | 234.5 |
| L3MBTL | 101.6 | 115.1 | 98.5 | 86.7 | 95.8 | 96.3 | 98.5 | 99.6 |
| L3MBTL | 87.7 | 93.9 | 89.6 | 85.7 | 88.4 | 85.7 | 86.3 | 97.5 |
| L3MBTL | 83.5 | 99.6 | 112.3 | 81.7 | 87.1 | 91.1 | 91.8 | 99.5 |
| L3MBTL | 127.8 | 141.3 | 102 | 96 | 86.2 | 109 | 111.6 | 121.8 |
| L3MBTL2 | 83 | 91.5 | 107 | 94.1 | 82.9 | 87 | 88.6 | 86.3 |
| L3MBTL2 | 843.8 | 1048.4 | 1356 | 1055.4 | 799.4 | 1255.7 | 691.3 | 1260.1 |
| L3MBTL3 | 248.1 | 284.1 | 188.7 | 193.9 | 154.5 | 234.7 | 208.9 | 293.4 |
| L3MBTL3 | 123.6 | 149.2 | 102.5 | 91.7 | 95.6 | 79.4 | 119 | 119.1 |
| L3MBTL3 | 92.3 | 87.4 | 94.1 | 85.9 | 78.2 | 77.3 | 87.4 | 86.4 |
| L3MBTL4 | 85.8 | 92.3 | 93.1 | 85.9 | 87 | 78.1 | 87.7 | 88.3 |
| LACE1 | 147.2 | 173.9 | 129.6 | 128.7 | 116.8 | 141.7 | 144.9 | 170.3 |
| LACRT | 93.3 | 104.9 | 100.7 | 89.4 | 92 | 91.9 | 91.9 | 92.4 |

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| LACTB | 282.2 | 330.1 | 130.5 | 133.2 | 110.4 | 142.4 | 260.3 | 418.7 |
| LACTB | 934.1 | 1291.8 | 776.5 | 1010.8 | 891.2 | 1202.3 | 998.6 | 1334.5 |
| LACTB | 135.9 | 164.7 | 116.8 | 131.3 | 115.3 | 142.7 | 124.9 | 177.3 |
| LACTB2 | 1355.6 | 1810.6 | 672.7 | 525.7 | 361.5 | 515.1 | 1190.6 | 1307.1 |
| LAD1 | 110.1 | 125.3 | 93.1 | 75.8 | 85.9 | 91.8 | 108.8 | 106.6 |
| LAD1 | 80 | 86.6 | 99.6 | 88 | 89.5 | 95.1 | 86.4 | 86.7 |
| LAG3 | 109.3 | 119.9 | 105 | 102.8 | 95.5 | 94.9 | 111.2 | 109 |
| LAIR1 | 760.7 | 920.1 | 422.5 | 264.9 | 221.8 | 214.5 | 527.9 | 590.2 |
| LAIR1 | 27318.6 | 28776.3 | 30366.3 | 31560.6 | 33932.1 | 30124.6 | 32913.4 | 30387.7 |
| LAIR2 | 180.3 | 220.4 | 126.3 | 128.7 | 102.9 | 120.4 | 151.2 | 217.7 |
| LAIR2 | 226.4 | 275.4 | 166.4 | 175.2 | 164.3 | 195.8 | 178 | 234.9 |
| LALBA | 83.7 | 99.3 | 92.1 | 88.2 | 88.9 | 86.9 | 97.5 | 99.5 |
| LAMA1 | 92.7 | 100.5 | 95.2 | 83.4 | 80.2 | 85.5 | 84.3 | 105 |
| LAMA1 | 73.5 | 85.5 | 86.6 | 76.7 | 74.9 | 70.9 | 70.4 | 80.8 |
| LAMA2 | 116 | 138.8 | 113 | 114.4 | 103.5 | 106.9 | 111.7 | 111.9 |
| LAMA2 | 105.7 | 148.8 | 101.3 | 104.2 | 90.1 | 93 | 103 | 113.6 |
| LAMA3 | 94.7 | 107.9 | 93 | 94.9 | 91.3 | 100.5 | 97.1 | 114.4 |
| LAMA3 | 81.8 | 79.4 | 96.4 | 88.6 | 84.5 | 85 | 76.7 | 87.3 |
| LAMA3 | 105.4 | 128 | 105.3 | 95.6 | 95.8 | 110.8 | 108 | 108.8 |
| LAMA3 | 104.3 | 127.9 | 104.7 | 101.8 | 102.5 | 124 | 100 | 121.4 |
| LAMA4 | 94.3 | 102.2 | 85.9 | 79.4 | 87.3 | 86.5 | 107.5 | 114.6 |
| LAMA5 | 477.3 | 520.4 | 457.3 | 356.8 | 404.1 | 457.1 | 367.5 | 555.3 |
| LAMB1 | 91.4 | 105 | 96.3 | 97.9 | 81 | 96.8 | 99.7 | 112.5 |
| LAMB2 | 121.5 | 126.8 | 85.4 | 88.9 | 83.1 | 82.4 | 113.3 | 128.3 |
| LAMB3 | 129.9 | 148.7 | 130.9 | 144.9 | 121.3 | 154.7 | 126.1 | 142.5 |
| LAMB3 | 94.8 | 111.4 | 94.4 | 94.8 | 86.8 | 88 | 101.6 | 110.2 |
| LAMB3 | 86.9 | 96.2 | 82.3 | 90.3 | 83.9 | 87.6 | 86.6 | 92.4 |
| LAMB4 | 96.5 | 107.4 | 92.4 | 97.6 | 91.9 | 88.7 | 96.6 | 85.2 |
| LAMC1 | 1083.9 | 1811.7 | 904.6 | 1664.3 | 1095.2 | 1744.9 | 1501.2 | 1750.4 |
| LAMC2 | 120.6 | 141.5 | 105.8 | 93.5 | 83.6 | 103.8 | 124.9 | 123 |
| LAMC2 | 82.3 | 91.8 | 93.5 | 76.3 | 80.5 | 90.7 | 84.9 | 96.5 |
| LAMC2 | 108.2 | 110.2 | 98.7 | 85.8 | 85.4 | 95.8 | 102.5 | 101.5 |
| LAMC3 | 102.8 | 108.3 | 90 | 89.2 | 83.8 | 91.3 | 92.9 | 100.5 |
| LAMP1 | 4229.2 | 6487.7 | 3408.7 | 4074.9 | 3177.9 | 4378.1 | 3991.8 | 5885.6 |
| LAMP2 | 4920.4 | 5866.2 | 3726.1 | 6180.9 | 4683.4 | 7099 | 4720.5 | 7039.5 |
| LAMP2 | 1535.1 | 1917.1 | 666 | 943.8 | 629.7 | 1051.7 | 1282.9 | 2264.2 |
| LAMP2 | 1366.8 | 1803.9 | 583.3 | 650.7 | 612.7 | 832.3 | 1413.6 | 1872.1 |
| LAMP3 | 69.2 | 86.6 | 83.1 | 75.7 | 83.7 | 85 | 76.6 | 78.9 |
| LANCL1 | 1396.5 | 1930.4 | 750.2 | 621.8 | 440.3 | 842 | 1313.9 | 1494.3 |
| LANCL2 | 334.3 | 432.3 | 215.9 | 291.9 | 238 | 316.1 | 275.5 | 354.9 |
| LANCL3 | 82.3 | 86.6 | 88.1 | 85.9 | 77.3 | 89.2 | 83.1 | 87.9 |
| LAP3 | 1844.3 | 2048.6 | 669.5 | 645.6 | 470.1 | 730.8 | 1393.5 | 2538.8 |
| LAPTM4A | 266.6 | 318.5 | 124.5 | 125.9 | 113.4 | 134.2 | 281.1 | 373.7 |
| LAPTM4B | 3788.5 | 5187.9 | 2677.8 | 1591.9 | 1071.1 | 1748.6 | 3250.1 | 5818.4 |
| LAPTM5 | 1865.6 | 2928 | 1434.8 | 1576.2 | 1142.3 | 1511.8 | 1808.5 | 3502.6 |
| LARGE | 93.4 | 103 | 103.9 | 103.6 | 88.7 | 95.9 | 89.9 | 94.6 |
| LARGE | 81.2 | 96.1 | 80.7 | 85.1 | 80.6 | 80.7 | 86.2 | 95.6 |
| LARGE | 84.3 | 94.5 | 89.7 | 78.4 | 77.6 | 79.1 | 87.6 | 88 |
| LARP1 | 103.1 | 99.2 | 94.9 | 85.4 | 86.5 | 80.4 | 96.9 | 106.7 |
| LARP1 | 606.8 | 886.6 | 649.5 | 723.5 | 519.5 | 1175.7 | 551.4 | 1463.1 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| LARP2 | 169 | 200.8 | 104.9 | 96.5 | 92.2 | 99 | 152 | 224.6 |
| LARP2 | 219 | 265 | 181.8 | 233.7 | 190.9 | 331.8 | 204.1 | 307.5 |
| LARP2 | 101.8 | 120.1 | 103.2 | 99 | 96.1 | 102.5 | 101.6 | 107 |
| LARP2 | 675.5 | 768.9 | 315.3 | 317.3 | 277.9 | 386.7 | 637.8 | 993.2 |
| LARP4 | 132.8 | 143.6 | 142.2 | 118.4 | 123.9 | 132.2 | 117.8 | 131.5 |
| LARP4 | 347.6 | 445.3 | 197.7 | 209.8 | 150.9 | 245 | 362.7 | 606.4 |
| LARP5 | 894.6 | 1245.8 | 858.1 | 884.2 | 725.9 | 1278.5 | 913.5 | 1208.3 |
| LARP6 | 131.6 | 147.8 | 138.6 | 126.5 | 111.2 | 130.5 | 170 | 173.7 |
| LARP6 | 176 | 173.3 | 146 | 141.9 | 126 | 129.6 | 171.5 | 233.2 |
| LARP7 | 2136.6 | 2749 | 1482.7 | 1452.6 | 1325.2 | 3030.7 | 1673.3 | 2588.1 |
| LARS | 1884.2 | 2580.6 | 1113.9 | 1184.6 | 903.8 | 1670.1 | 1386.8 | 1742.6 |
| LARS2 | 260.4 | 338.1 | 288.1 | 298.4 | 223.4 | 413.2 | 260.2 | 306.1 |
| LAS1L | 811.3 | 1029.4 | 470.6 | 508.6 | 379.4 | 585.7 | 663.5 | 759.9 |
| LASP1 | 5667.9 | 7633.1 | 4438.1 | 4809.7 | 3917.8 | 4441.8 | 4786.1 | 4981 |
| LASS1 | 92.3 | 105.5 | 94.8 | 81.2 | 88.5 | 96.5 | 87.4 | 94.5 |
| LASS1 | 170.2 | 197.2 | 138 | 110.6 | 103.7 | 112.2 | 170.4 | 195.2 |
| LASS1 | 79.6 | 97.2 | 93.5 | 80.8 | 90.6 | 80.4 | 85.1 | 92.1 |
| LASS2 | 819.1 | 1152.7 | 464.5 | 379.2 | 258.7 | 423.1 | 664.5 | 1075.4 |
| LASS2 | 1512.7 | 2007 | 822.3 | 588.7 | 499.1 | 770.6 | 1157 | 1704.6 |
| LASS3 | 85.1 | 86.8 | 95.3 | 77 | 84.2 | 75.4 | 75.5 | 88.3 |
| LASS4 | 106.3 | 135.7 | 95.4 | 94.7 | 98 | 106.7 | 113.6 | 122.5 |
| LASS5 | 213.6 | 301.9 | 165.3 | 218.6 | 204.7 | 251.9 | 203.3 | 246.7 |
| LASS6 | 2449.2 | 3477.9 | 2747.6 | 4505.3 | 3646.6 | 5011.3 | 2131.3 | 4578.5 |
| LAT | 184.4 | 204.9 | 159.8 | 158.6 | 138.9 | 182.1 | 165.4 | 220.3 |
| LAT | 136.2 | 132.1 | 118.5 | 121.1 | 103.9 | 131.4 | 114.8 | 132.9 |
| LAT | 90.6 | 106.6 | 99.3 | 93.8 | 77.6 | 85.5 | 84.7 | 85.7 |
| LAT | 84.4 | 104 | 99.8 | 98.8 | 94.7 | 91 | 94.1 | 92 |
| LAT1-3TM | 839.7 | 885.9 | 338.2 | 296 | 257.1 | 396.1 | 692.7 | 1236.4 |
| LAT1-3TM | 109.8 | 120.5 | 114.4 | 92.9 | 96.3 | 98 | 109.4 | 113.6 |
| LAT1-3TM | 96 | 110.9 | 84.9 | 91 | 90.8 | 80.3 | 90.9 | 114.6 |
| LAT2 | 2171.4 | 2671.6 | 1565.8 | 1089.9 | 860.9 | 1439.4 | 2135.7 | 2832.6 |
| LAT2 | 2274.9 | 3020.6 | 1197.1 | 823.7 | 695.6 | 1163.3 | 2200.2 | 3658.1 |
| LAT2 | 481.8 | 658.6 | 195.8 | 173.1 | 168.8 | 137.7 | 458.3 | 586.3 |
| LATS1 | 93.2 | 110.1 | 97.4 | 82.1 | 89.6 | 85.9 | 95.4 | 103.5 |
| LATS2 | 110.7 | 112.4 | 120.3 | 117.5 | 124.3 | 122.3 | 103.3 | 128.8 |
| LAX1 | 165.7 | 232.4 | 116.5 | 111.6 | 120.7 | 120.6 | 154.7 | 146.8 |
| LAYN | 100.5 | 115.5 | 102 | 93.8 | 85.1 | 95.1 | 100.6 | 99.8 |
| LBH | 104.5 | 114.9 | 93.8 | 85.5 | 76.6 | 73.4 | 98 | 102.9 |
| LBH | 143.1 | 194.5 | 126.3 | 103.2 | 95.6 | 109.2 | 121.6 | 168.6 |
| LBP | 119.1 | 136.7 | 93.5 | 78.7 | 81.2 | 87 | 112.2 | 148.5 |
| LBR | 639.8 | 750.7 | 230.5 | 141.7 | 138.4 | 110.6 | 413 | 565.4 |
| LBR | 1669.9 | 2195.4 | 869.1 | 663.5 | 577.6 | 616 | 1566.2 | 2004.5 |
| LBR | 109.3 | 121.8 | 92.3 | 86.3 | 85 | 79 | 116.1 | 136.5 |
| LBX1 | 80.3 | 99.8 | 86.9 | 75.5 | 74.9 | 81.8 | 80.7 | 96 |
| LBX2 | 109.1 | 126.5 | 136.8 | 95.6 | 98.6 | 110.2 | 114.1 | 126.5 |
| LBXCOR1 | 110.6 | 142.1 | 92.2 | 94.4 | 88.3 | 91.4 | 116.3 | 135.2 |
| LCAP | 100.2 | 108.6 | 108.9 | 101.4 | 99.2 | 93.5 | 98.7 | 103 |
| LCAT | 125.6 | 141.9 | 108.6 | 92 | 86.3 | 96.3 | 105.6 | 139.2 |
| LCE1A | 81.8 | 93.2 | 91.5 | 88.1 | 88.7 | 83 | 92.3 | 99.5 |
| LCE1B | 91 | 106.3 | 100.2 | 95.8 | 94.7 | 92.1 | 94.1 | 100.5 |

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| LCE1D | 85.7 | 83 | 104.7 | 95.2 | 91.7 | 94.7 | 92 | 88.6 |
| LCE1E | 103.5 | 123.7 | 96.7 | 87.3 | 83.7 | 93.7 | 101.7 | 130.7 |
| LCE1E | 80 | 85 | 89.6 | 84.6 | 78.1 | 91.3 | 84.8 | 87.5 |
| LCE1F | 96.5 | 116.3 | 92.3 | 88.9 | 79.1 | 94.7 | 98.5 | 112.7 |
| LCE2A | 81.7 | 98.7 | 81.2 | 86.2 | 83.1 | 94 | 96.3 | 83.6 |
| LCE2B | 81.9 | 98.3 | 92.9 | 82 | 82.6 | 88 | 81.8 | 95.2 |
| LCE2C | 83.7 | 98.5 | 104.6 | 86.7 | 84.8 | 92.5 | 81.1 | 89.7 |
| LCE2D | 76.3 | 79.8 | 94.2 | 86.3 | 84 | 91.7 | 86.2 | 82.1 |
| LCE3A | 93 | 108.3 | 84.8 | 74.8 | 82.4 | 89.2 | 92 | 108.6 |
| LCE3B | 87.6 | 95.5 | 98 | 83.9 | 84.2 | 80.9 | 84.2 | 98.8 |
| LCE3C | 80.9 | 87.3 | 93.9 | 88.2 | 86.6 | 84.4 | 77.6 | 90.3 |
| LCE3D | 89.3 | 105.7 | 90.8 | 79.7 | 77.3 | 88.6 | 91.7 | 101.2 |
| LCE3E | 87 | 88.4 | 99 | 85 | 91.1 | 89 | 77.7 | 76.6 |
| LCE5A | 110.2 | 139.5 | 109.8 | 86.3 | 89.6 | 93.8 | 113.6 | 130.4 |
| LCK | 160.7 | 173.7 | 113.1 | 100.8 | 101.5 | 104.9 | 157.2 | 150.3 |
| LCK | 100.5 | 90.7 | 93.2 | 89.5 | 87.8 | 90.9 | 91.7 | 106.7 |
| LCK | 85.1 | 96.8 | 93.9 | 93.8 | 90.6 | 92.8 | 93 | 97.1 |
| LCMT1 | 1140.5 | 1559 | 643.6 | 506 | 380.4 | 450.5 | 1003.3 | 859.7 |
| LCMT1 | 642.5 | 831.2 | 393.3 | 280.3 | 256.9 | 273.2 | 478.3 | 588.9 |
| LCMT1 | 416.4 | 549.7 | 321.6 | 239.4 | 186.8 | 211.8 | 341.6 | 401.8 |
| LCMT2 | 732.7 | 946.9 | 682.7 | 705.7 | 507.1 | 956.9 | 539.1 | 1046.5 |
| LCN1 | 119.2 | 138 | 89.3 | 92.2 | 94.9 | 100.6 | 116.8 | 130.4 |
| LCN10 | 93.5 | 113 | 92.6 | 85.7 | 74.2 | 79.8 | 109.7 | 102.4 |
| LCN12 | 83 | 90.2 | 83.8 | 78.8 | 83.4 | 84.4 | 82.4 | 97.8 |
| LCN2 | 108.8 | 101.8 | 85.1 | 79.6 | 85.9 | 78.5 | 103 | 105.1 |
| LCN6 | 79.4 | 80.8 | 91.2 | 79.2 | 78.6 | 83.2 | 81.8 | 88.3 |
| LCN8 | 81 | 86.9 | 91.7 | 91 | 77.7 | 76.5 | 86.3 | 95.5 |
| LCN9 | 90 | 92.5 | 88.4 | 80.6 | 85.8 | 87.3 | 86.4 | 97.2 |
| LCOR | 142.2 | 171 | 124 | 147.8 | 145.9 | 180.8 | 156.1 | 221 |
| LCORL | 70.7 | 82.5 | 87.1 | 75 | 71.6 | 74.6 | 68.3 | 81.8 |
| LCP1 | 15942.4 | 19579 | 11088.5 | 17119.6 | 12481.1 | 21326 | 14405.7 | 16587 |
| LCP2 | 168.1 | 201.9 | 142.2 | 169.4 | 136.4 | 182.7 | 149.9 | 142.5 |
| LCT | 91.6 | 86 | 101.7 | 94.5 | 92.3 | 91.3 | 92 | 91.9 |
| LCTL | 155.2 | 188.9 | 101.6 | 99.6 | 83.6 | 109.1 | 133.9 | 177.1 |
| LDB1 | 111.2 | 131.6 | 91.8 | 92.5 | 85.7 | 87.5 | 112.6 | 136.2 |
| LDB2 | 105.8 | 134.4 | 95.3 | 83.7 | 73.5 | 85.8 | 105.7 | 121.1 |
| LDB3 | 108.6 | 122.5 | 111.7 | 91 | 100.3 | 102.1 | 96.3 | 110.6 |
| LDB3 | 80.6 | 89.7 | 74.4 | 73.9 | 81.9 | 76.9 | 80.4 | 94.9 |
| LDB3 | 76.5 | 78.6 | 90.3 | 90.7 | 81.3 | 92.1 | 73.8 | 79.8 |
| LDHA | 15279 | 17540.2 | 11517.1 | 10629.1 | 7051.6 | 13786.1 | 13479 | 23395.3 |
| LDHAL6A | 97.8 | 107.5 | 100.3 | 90.8 | 98.2 | 98.1 | 92.5 | 124.5 |
| LDHAL6B | 73.9 | 78.3 | 94.1 | 82.4 | 86.8 | 79.7 | 83.5 | 78.3 |
| LDHB | 8741.6 | 10129 | 2143.4 | 1425.8 | 1302.2 | 2597 | 7395.4 | 12131.3 |
| LDHC | 115.9 | 129.4 | 97.2 | 94.1 | 84.3 | 100.7 | 103.8 | 117.9 |
| LDHC | 79.7 | 82.1 | 88.1 | 87.5 | 78.9 | 85.9 | 88.5 | 99 |
| LDHD | 103.2 | 107.1 | 92.3 | 92.7 | 79.2 | 84.3 | 92.1 | 103.2 |
| LDHD | 97 | 142.7 | 114.8 | 112 | 127 | 138.6 | 100 | 116 |
| LDLR | 1987.6 | 2642.7 | 1068 | 1535.3 | 1477.3 | 1511.9 | 1804.8 | 1439.5 |
| LDLRAD1 | 92.2 | 98.9 | 100.7 | 88.7 | 88.1 | 96.4 | 86.2 | 96.6 |
| LDLRAD2 | 76.9 | 93.6 | 97.4 | 91.9 | 89.3 | 92.3 | 81 | 92 |

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|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| LDLRAD3 | 132.1 | 126.7 | 95.4 | 114.2 | 84.9 | 104.4 | 102.1 | 107.9 |
| LDLRAP1 | 99.3 | 135.1 | 125.8 | 123.8 | 134 | 146.7 | 121.8 | 135.8 |
| LDOC1 | 106 | 114.2 | 101.2 | 87.8 | 96.9 | 92.8 | 105.1 | 141.7 |
| LDOC1L | 485.7 | 564.7 | 396.7 | 476.4 | 276.6 | 566.8 | 432.6 | 1089 |
| LEAP2 | 205.8 | 235 | 144.1 | 149.3 | 136.2 | 148 | 170.3 | 222.5 |
| LECT1 | 94.8 | 112.9 | 117.8 | 117 | 109 | 117.6 | 99.9 | 94.8 |
| LECT2 | 74.8 | 83.8 | 102.7 | 80.9 | 80.1 | 85.7 | 79.7 | 81.8 |
| LEF1 | 192.7 | 230.2 | 160.5 | 97.9 | 83.4 | 108.8 | 146.1 | 254.2 |
| LEFTY1 | 77.1 | 89.8 | 87.2 | 90.6 | 84.6 | 89 | 88.4 | 98 |
| LEFTY2 | 88.7 | 98.9 | 92.7 | 85.8 | 88.7 | 86.1 | 85.1 | 96.8 |
| LELP1 | 92.8 | 114.9 | 91.4 | 97.1 | 87.7 | 81.6 | 100.1 | 102.4 |
| LEMD1 | 82.4 | 107.1 | 90.6 | 85.3 | 76.8 | 90.2 | 95.5 | 100.5 |
| LEMD2 | 697.1 | 835.3 | 395.8 | 385.7 | 366.5 | 415 | 599.4 | 661 |
| LEMD3 | 1047.6 | 1492.1 | 645 | 831.1 | 555.7 | 995.5 | 1123.1 | 1821.3 |
| LENEP | 74.8 | 86.9 | 85 | 86.5 | 76.6 | 75.2 | 84.1 | 89.3 |
| LENG1 | 187 | 222.9 | 113.2 | 100.3 | 94.5 | 101.7 | 170.1 | 207.5 |
| LENG4 | 277.2 | 355.2 | 297.5 | 290.5 | 255 | 355.6 | 255.2 | 627.2 |
| LENG8 | 132.1 | 155.3 | 121.7 | 99.2 | 105.2 | 111.8 | 121.2 | 167 |
| LENG9 | 98.5 | 120.9 | 104.7 | 97.1 | 98.9 | 108.9 | 99.8 | 114.4 |
| LEO1 | 360 | 498.3 | 120.3 | 117 | 97.3 | 122.4 | 282.6 | 429.6 |
| LEP | 300.7 | 330.9 | 136.3 | 202.4 | 150.9 | 130.1 | 285 | 333.4 |
| LEPR | 107.2 | 139.8 | 84.2 | 77 | 86.3 | 89.6 | 109.7 | 122.9 |
| LEPR | 167.3 | 214.7 | 139.1 | 142.7 | 138.1 | 166.2 | 175.4 | 236.9 |
| LEPR | 92.7 | 100.2 | 102.9 | 95.3 | 86.2 | 97.2 | 85.8 | 98.2 |
| LEPRE1 | 900.1 | 1143.4 | 848 | 1218.9 | 1072.1 | 1297.7 | 829.8 | 1243.4 |
| LEPREL1 | 122.5 | 144 | 106.6 | 100.9 | 92.5 | 106.9 | 116.5 | 113.6 |
| LEPREL2 | 92.4 | 101 | 94.9 | 88.6 | 99.3 | 94.7 | 92 | 93.6 |
| LEPROT | 1596 | 2143.7 | 810.5 | 1066.8 | 858.8 | 873.1 | 1653.1 | 1882.1 |
| LEPROTL1 | 1309.1 | 2014.1 | 714.3 | 459 | 417.1 | 650.6 | 1418.6 | 1851.4 |
| LETM1 | 200.3 | 242.3 | 168.2 | 143 | 121.9 | 141 | 162.5 | 219.5 |
| LETM2 | 127.2 | 140.2 | 100 | 103.9 | 86.8 | 86 | 118.7 | 130.2 |
| LETMD1 | 200.1 | 215.6 | 141.6 | 127.9 | 139.9 | 120.5 | 149.6 | 181.3 |
| LETMD1 | 436.2 | 511.6 | 387.8 | 559.4 | 461.4 | 603.2 | 325.4 | 461.4 |
| LFNG | 102.8 | 120.1 | 95 | 81 | 85.8 | 84.2 | 89.9 | 104 |
| LFNG | 98.9 | 111.9 | 104.9 | 106 | 93.3 | 108.7 | 86.8 | 92.5 |
| LFNG | 300.8 | 382.6 | 275 | 245 | 214.6 | 227.8 | 308.1 | 451.1 |
| LGALS1 | 25073.1 | 29319.5 | 17224.8 | 15764.9 | 12627.4 | 13705.8 | 25374.4 | 25663.4 |
| LGALS12 | 145.5 | 162 | 128.2 | 108.8 | 109.7 | 106.6 | 122.2 | 147.9 |
| LGALS13 | 99.7 | 111.2 | 96.4 | 86.2 | 76 | 92 | 99.5 | 119.2 |
| LGALS14 | 154.4 | 165.4 | 112.4 | 97.5 | 93.9 | 105 | 116.3 | 150.9 |
| LGALS14 | 84.1 | 104.9 | 78.4 | 88.5 | 82.3 | 82 | 86.4 | 107.5 |
| LGALS2 | 152.1 | 173.4 | 96.6 | 91.6 | 87.4 | 105.2 | 144.9 | 192.6 |
| LGALS3 | 160.4 | 192.8 | 117.2 | 195.6 | 150.7 | 229.3 | 158.5 | 205.6 |
| LGALS3BP | 110.6 | 136.3 | 102.9 | 104.1 | 99.5 | 104.1 | 113 | 127.1 |
| LGALS4 | 83.1 | 97.5 | 97.9 | 89 | 103.8 | 98.5 | 84.3 | 98.2 |
| LGALS7 | 107.5 | 116.4 | 95.3 | 77.5 | 89.4 | 85.2 | 104.9 | 134.1 |
| LGALS8 | 92.5 | 113.5 | 97.5 | 96.4 | 86.9 | 86 | 100.1 | 99.8 |
| LGALS8 | 967.3 | 1192.7 | 271.5 | 272.3 | 256 | 386.9 | 917.9 | 1432.4 |
| LGALS8 | 121.1 | 135.3 | 84.8 | 85.2 | 75.9 | 83.7 | 110.7 | 143.4 |
| LGALS8 | 1431.1 | 1654.2 | 525.9 | 575.1 | 433.6 | 596.7 | 1305 | 1833.7 |

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|--------|--------|-------|--------|-------|-------|-------|--------|--------|
| LGALS9 | 554 | 859.9 | 609 | 569.3 | 391.8 | 504.4 | 416.5 | 984 |
| LGALS9 | 230.7 | 310.8 | 287.7 | 223.4 | 191.7 | 253.1 | 217.3 | 365.4 |
| LGI1 | 93 | 90.9 | 87.9 | 76.6 | 79.6 | 76.1 | 85.3 | 90.5 |
| LGI2 | 131.4 | 150.8 | 111.6 | 97.8 | 92.4 | 97.7 | 147.3 | 153.2 |
| LGI3 | 88.4 | 98.5 | 86.3 | 82.1 | 73.8 | 83.2 | 96.8 | 98.4 |
| LGI4 | 119.2 | 152.5 | 89.4 | 95.4 | 78 | 84.9 | 114.2 | 146.9 |
| LGICZ1 | 111.2 | 120.4 | 88.6 | 85.7 | 85.1 | 95.2 | 112 | 134.4 |
| LGMN | 78.7 | 90.8 | 97.8 | 86.6 | 85.1 | 92.6 | 88.8 | 89.3 |
| LGMN | 119.7 | 135.2 | 105.8 | 100.3 | 101 | 91.5 | 120.3 | 144.6 |
| LGMN | 120.8 | 126.2 | 114.9 | 87.3 | 94 | 97 | 113.4 | 132.7 |
| LGP1 | 363.6 | 463.4 | 417.6 | 407 | 331.7 | 611.1 | 281.1 | 575.8 |
| LGP2 | 120.9 | 126.4 | 107.5 | 131.5 | 136 | 151.3 | 101.8 | 124.9 |
| LGR4 | 199.6 | 250.6 | 140.9 | 132.4 | 136.1 | 157.3 | 142.4 | 147.4 |
| LGR5 | 88.1 | 103.4 | 92.9 | 84.5 | 89.8 | 96.5 | 92.3 | 95 |
| LGR6 | 109.5 | 111.4 | 95.1 | 77.9 | 78.1 | 85.6 | 94.2 | 108.8 |
| LGR6 | 128.3 | 140.3 | 95.9 | 86.8 | 95.1 | 98.1 | 105.8 | 129.4 |
| LGR6 | 117.3 | 117.1 | 85.3 | 75.5 | 73.9 | 79.2 | 93.9 | 130.9 |
| LGR6 | 80.9 | 84.1 | 81.2 | 75.8 | 65.7 | 79.6 | 85.4 | 79.2 |
| LGR7 | 220 | 261.9 | 134.6 | 120.2 | 118.7 | 149.7 | 137.1 | 197.7 |
| LGR8 | 76 | 79.4 | 89.4 | 78 | 80.8 | 83.1 | 80.9 | 77 |
| LGTN | 607.1 | 766.8 | 583.6 | 692.6 | 634.7 | 932.3 | 505 | 775.9 |
| LHB | 100.5 | 102.5 | 91.4 | 86.2 | 87.8 | 83.6 | 93 | 94 |
| LHCGR | 98.9 | 97.4 | 97.7 | 88.1 | 77.3 | 82.8 | 94.9 | 100.4 |
| LHFP | 141 | 159.2 | 107.4 | 94 | 91.9 | 97 | 129.5 | 162.8 |
| LHFPL1 | 94.2 | 129.7 | 102.9 | 96.2 | 81.1 | 83.1 | 106.4 | 148.5 |
| LHFPL2 | 145.9 | 198.2 | 144 | 147.5 | 139.3 | 163.6 | 142.6 | 155.1 |
| LHFPL3 | 118.3 | 122.4 | 109.9 | 102 | 89.3 | 111.2 | 104.6 | 128.5 |
| LHFPL5 | 78.1 | 80.8 | 81.1 | 83.7 | 72.6 | 82.1 | 78.6 | 86 |
| LHPP | 93.1 | 100.6 | 90.6 | 83 | 84.4 | 91.3 | 83.7 | 98.7 |
| LHX1 | 103.8 | 123.8 | 107 | 92.9 | 100.3 | 96.1 | 110.2 | 108.2 |
| LHX2 | 1347.8 | 1684 | 1085.3 | 441.7 | 405.2 | 431.8 | 1269.6 | 2012.3 |
| LHX3 | 78.4 | 89.3 | 97.8 | 90.9 | 85 | 94.4 | 79.2 | 80.1 |
| LHX3 | 133.4 | 137.1 | 99.3 | 92.3 | 81.5 | 88.7 | 124.1 | 145.6 |
| LHX3 | 88.4 | 110.7 | 85.3 | 92.3 | 78.6 | 89.8 | 99.3 | 118.6 |
| LHX3 | 107.1 | 116.7 | 81.3 | 82.1 | 76 | 78.3 | 127.8 | 105.2 |
| LHX3 | 84 | 91.9 | 95.2 | 87.2 | 86.4 | 88 | 76.4 | 84.6 |
| LHX4 | 122 | 154.4 | 110 | 104.8 | 92.6 | 110.6 | 118.9 | 148.9 |
| LHX5 | 100.2 | 116.4 | 92.1 | 95.5 | 89.3 | 89.3 | 112 | 102.3 |
| LHX6 | 191.6 | 256.5 | 119.6 | 111.1 | 110.2 | 131.3 | 197.1 | 255.8 |
| LHX6 | 101.6 | 98 | 95.6 | 84.4 | 74.2 | 91 | 91.7 | 85.8 |
| LHX8 | 85.6 | 88.3 | 91.9 | 86.7 | 75.4 | 82.6 | 92.6 | 102.6 |
| LHX9 | 68.6 | 71.4 | 84.2 | 75.1 | 71.4 | 81.8 | 75.6 | 82.7 |
| LHX9 | 77.9 | 94.6 | 94 | 86.1 | 83 | 80.6 | 78.4 | 82.8 |
| LIAS | 201.2 | 264.2 | 154.4 | 124.7 | 110.3 | 122.1 | 184.3 | 225.7 |
| LIAS | 486.5 | 677 | 285.6 | 280.6 | 223.6 | 321.5 | 460.6 | 759.1 |
| LIF | 92.8 | 113.2 | 93.7 | 93 | 86.1 | 87 | 82.9 | 89.2 |
| LIFR | 86.8 | 100.4 | 98.4 | 82.2 | 88.6 | 94.3 | 95.5 | 90.2 |
| LIG1 | 548.5 | 712.4 | 585 | 541.3 | 507.8 | 851.3 | 434.3 | 630.4 |
| LIG3 | 99.2 | 123.3 | 86.1 | 85.5 | 80.5 | 89.3 | 92.9 | 103.8 |
| LIG3 | 148.2 | 220.2 | 124.4 | 115.6 | 105.5 | 120.2 | 133.3 | 151.5 |

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|--------|---------|---------|--------|---------|---------|---------|--------|---------|
| LIG3 | 353.1 | 476.6 | 276.1 | 270.7 | 222.7 | 344.4 | 246.2 | 251.7 |
| LIG4 | 88.5 | 110 | 89.7 | 94.7 | 82.7 | 96.7 | 93.5 | 132.8 |
| LIG4 | 103 | 123.2 | 98.6 | 87.5 | 77.7 | 82.5 | 112.4 | 118.8 |
| LILRA1 | 106.1 | 98.1 | 92.3 | 82.2 | 88.4 | 87.5 | 92.6 | 104 |
| LILRA2 | 1265.7 | 1680.9 | 453.9 | 474.1 | 422 | 538.7 | 1108.2 | 853.1 |
| LILRA3 | 177.4 | 207 | 159.1 | 106.5 | 121.3 | 130 | 162.9 | 185.1 |
| LILRA3 | 75.1 | 79.2 | 95.1 | 80.3 | 86.2 | 84.4 | 85.3 | 89 |
| LILRA4 | 127 | 151 | 85.9 | 87.5 | 85.5 | 101 | 131.6 | 154.1 |
| LILRA5 | 81 | 105.4 | 81.7 | 79.5 | 74.7 | 82.7 | 90.8 | 97.1 |
| LILRA5 | 112.8 | 138.2 | 103.3 | 168.2 | 152.6 | 124.9 | 106.3 | 101.5 |
| LILRA5 | 77.4 | 87.3 | 94.2 | 89.5 | 93.3 | 83.3 | 77.9 | 82 |
| LILRA6 | 92.3 | 104.6 | 85.3 | 87.5 | 86.9 | 90.2 | 90.2 | 98 |
| LILRB1 | 76.2 | 88.8 | 109.5 | 87.5 | 90.2 | 91.4 | 83 | 90.3 |
| LILRB1 | 4814.1 | 5443.4 | 2104.3 | 3466 | 3641.7 | 2585.7 | 4291.2 | 3876.6 |
| LILRB2 | 158.7 | 172.7 | 158 | 218.4 | 194.6 | 259.7 | 131.5 | 169 |
| LILRB3 | 96.7 | 116.6 | 88.6 | 97.8 | 93 | 86.8 | 95.2 | 108.3 |
| LILRB3 | 13669.8 | 14875.5 | 9802.1 | 14269.1 | 14807.6 | 10060.7 | 11263 | 11715.2 |
| LILRB4 | 1185.3 | 1602.3 | 502.3 | 281.7 | 210.8 | 273 | 1130.5 | 1351.8 |
| LILRB5 | 74.3 | 80.5 | 89.4 | 80.5 | 76.3 | 87.2 | 80 | 82.1 |
| LILRB5 | 101.5 | 122.1 | 101.2 | 98 | 93.9 | 96.5 | 106.9 | 120.3 |
| LIM2 | 71.4 | 90.2 | 90 | 78.1 | 77.1 | 89.2 | 70.3 | 85.9 |
| LIMA1 | 315.7 | 402.2 | 249.9 | 323.8 | 266.7 | 672.1 | 202.5 | 401.6 |
| LIMD1 | 76.8 | 93.8 | 88 | 84.1 | 86.7 | 93.1 | 80.4 | 85.8 |
| LIMD2 | 87.5 | 120.1 | 90.4 | 86.1 | 80 | 90.5 | 103.6 | 108.8 |
| LIME1 | 367.6 | 348.3 | 294.9 | 258 | 276.3 | 348.3 | 269.6 | 414.9 |
| LIMK1 | 116.2 | 120.1 | 106 | 104.2 | 89.7 | 124.7 | 110.7 | 142.6 |
| LIMK1 | 86.7 | 92.1 | 101.1 | 99 | 85.7 | 97.4 | 92 | 92.6 |
| LIMK2 | 201 | 260.1 | 157.3 | 120.6 | 115.4 | 120.1 | 154.2 | 182 |
| LIMK2 | 158 | 205.2 | 123.1 | 87.3 | 89.9 | 100.6 | 117.2 | 162.2 |
| LIMK2 | 211.2 | 215.8 | 128.9 | 100.9 | 100.5 | 128.2 | 178.3 | 284.3 |
| LIMK2 | 111.8 | 128.8 | 96.9 | 102.8 | 99.8 | 90.5 | 100.8 | 103.9 |
| LIMS1 | 529.4 | 753.5 | 194.2 | 282.8 | 224.2 | 160.7 | 454.2 | 515.4 |
| LIMS1 | 93.7 | 116.1 | 86.7 | 83.4 | 80.1 | 89.4 | 97.2 | 110.5 |
| LIMS2 | 116 | 132.5 | 98.2 | 88.1 | 84.3 | 90.3 | 116.8 | 127.3 |
| LIMS3 | 87.9 | 102.7 | 93 | 99.7 | 85.9 | 92.4 | 83 | 106.4 |
| LIN10 | 155.9 | 195.6 | 160.4 | 143.7 | 144.4 | 159.2 | 148.5 | 207.9 |
| LIN28 | 79.7 | 89.5 | 79.4 | 82.2 | 79.2 | 79.8 | 79.8 | 96.9 |
| LIN28B | 113 | 120.8 | 95.5 | 86.5 | 81.9 | 84 | 106.3 | 117.3 |
| LIN7A | 245.4 | 310.5 | 202.3 | 231.9 | 213.1 | 326.7 | 248.4 | 322.8 |
| LIN7B | 222.9 | 235.2 | 159 | 128.7 | 124.8 | 153.7 | 185.5 | 261.7 |
| LIN7C | 132.7 | 134.1 | 114.1 | 133 | 107 | 139.6 | 126.9 | 188 |
| LIN9 | 590.8 | 736.3 | 357.5 | 340.7 | 274.7 | 596.8 | 466 | 1173.1 |
| LINCR | 80.2 | 81.1 | 101.3 | 89.8 | 87.2 | 92.7 | 81.8 | 88.3 |
| LINGO4 | 84.9 | 89.5 | 110.1 | 108.6 | 114.4 | 107.2 | 82 | 95.7 |
| LINS1 | 200.3 | 257.9 | 118 | 119.9 | 102.2 | 140.2 | 174.4 | 273.8 |
| LINS1 | 135.8 | 177.9 | 101.8 | 92.3 | 96.7 | 95.8 | 108.8 | 122.6 |
| LIPA | 1641 | 2131.5 | 1330.3 | 1587.2 | 1031 | 1535.4 | 1704.6 | 2991.5 |
| LIPC | 77.2 | 84.4 | 88.4 | 74.5 | 83.4 | 80.7 | 87.3 | 88.4 |
| LIPE | 109.7 | 116.9 | 108.4 | 106 | 92.4 | 103.4 | 106.7 | 106.8 |
| LIPF | 98 | 103.9 | 122.6 | 110.7 | 108.4 | 107.8 | 86.6 | 91.6 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| LIPG | 90 | 83.7 | 98.8 | 95.4 | 94.6 | 93.9 | 86.9 | 87.5 |
| LIPH | 115 | 139.7 | 88.5 | 92.8 | 93.8 | 92.6 | 107.8 | 111.1 |
| LIPI | 89.8 | 94.2 | 88.5 | 80.7 | 83.9 | 80.7 | 84.8 | 94.6 |
| LIPK | 109.8 | 124.4 | 108.2 | 94.7 | 91.3 | 98.7 | 99.2 | 120.1 |
| LIPL1 | 97.3 | 120.3 | 108.4 | 109.5 | 96.3 | 106.4 | 97.3 | 103.3 |
| LIPT1 | 449.2 | 582.9 | 305 | 302.2 | 213.7 | 434.5 | 330.2 | 493.9 |
| LIPT1 | 210.8 | 266.4 | 122.5 | 124.2 | 119.4 | 137.1 | 190.5 | 207.1 |
| LITAF | 2515.6 | 2946.3 | 2832 | 2244.1 | 1462.3 | 2319.3 | 2831.3 | 7781 |
| LIX1 | 105.5 | 122 | 99.8 | 106 | 92.7 | 93.9 | 106.3 | 124.3 |
| LIX1L | 384.8 | 534.7 | 220.7 | 185.3 | 176.3 | 205.3 | 295.1 | 309.5 |
| LKAP | 684.7 | 994.9 | 808.9 | 1526.4 | 1262.5 | 1691 | 783.2 | 1082.8 |
| LLGL1 | 184.8 | 223.2 | 196.4 | 250 | 210.1 | 291.8 | 201.7 | 209.4 |
| LLGL2 | 101.2 | 119.8 | 93.4 | 94.5 | 91.8 | 94 | 108.7 | 113.6 |
| LMAN1 | 246.2 | 308.5 | 101.4 | 102.2 | 98.4 | 116.8 | 180.2 | 261.5 |
| LMAN1L | 143.2 | 164.3 | 98.8 | 94.3 | 94.1 | 103.1 | 137.1 | 153.1 |
| LMAN2 | 269.5 | 292.1 | 166.5 | 173.1 | 147.1 | 164.4 | 262.5 | 309 |
| LMAN2L | 605.8 | 778.4 | 286.7 | 289.7 | 201.7 | 248 | 501 | 712.4 |
| LMBR1 | 941.4 | 1353.8 | 629.9 | 637.2 | 458.2 | 801.4 | 776.7 | 1133.8 |
| LMBR1L | 124.6 | 172 | 109.6 | 111.6 | 104.5 | 109.1 | 124.5 | 141.3 |
| LMBRD1 | 2138.6 | 2584.7 | 1012.8 | 1187.6 | 1106.8 | 1623.7 | 1907.9 | 2742.5 |
| LMBRD2 | 129.3 | 135 | 99.8 | 95.4 | 98.4 | 107.6 | 112.8 | 138.9 |
| LMCD1 | 105.7 | 120.2 | 90.8 | 77.9 | 76 | 89.7 | 101.4 | 98 |
| LMLN | 135.1 | 158.3 | 103.7 | 99 | 87.6 | 95.8 | 112.9 | 133.4 |
| LMNA | 750.6 | 1008.5 | 767.6 | 805.6 | 516.4 | 833 | 845.7 | 1402.4 |
| LMNA | 3202.6 | 4053.4 | 1912.7 | 1632.4 | 1126.7 | 1701.6 | 3109.2 | 2452.4 |
| LMNB1 | 2476.8 | 4709.8 | 1392.1 | 1542.1 | 1218.1 | 2194.7 | 2676.7 | 2641.3 |
| LMNB2 | 1956.8 | 2533.4 | 2741.3 | 2461.3 | 1998.1 | 2745.8 | 1761 | 2608.4 |
| LMO1 | 96.9 | 101.6 | 86.4 | 78.3 | 75.8 | 72.3 | 87.9 | 114.5 |
| LMO2 | 3263.8 | 4395.3 | 910.6 | 762.8 | 900.3 | 1001.8 | 2660.3 | 4267.9 |
| LMO3 | 93.7 | 111.4 | 88.8 | 89.6 | 83.9 | 93.6 | 83 | 93.5 |
| LMO3 | 86.6 | 95.5 | 116.1 | 97.3 | 101.1 | 100.8 | 86.2 | 97 |
| LMO3 | 75.3 | 81.8 | 86.6 | 80.3 | 81.5 | 78.5 | 81.1 | 83 |
| LMO4 | 2350.4 | 2518.8 | 1419 | 2068.7 | 1682.7 | 2169.9 | 2555.4 | 4727.9 |
| LMO6 | 98.8 | 126.3 | 112.5 | 96 | 99.7 | 100 | 107.2 | 143.6 |
| LMO7 | 92.9 | 113.2 | 107.7 | 103.1 | 94.9 | 103.4 | 92.8 | 111.5 |
| LMOD1 | 108.8 | 126.5 | 90 | 94.9 | 85 | 90.7 | 110.6 | 105.9 |
| LMOD3 | 585.5 | 518.3 | 388.8 | 605.2 | 559.8 | 375.4 | 548.3 | 924.4 |
| LMTK2 | 108.6 | 137 | 99.5 | 97.2 | 84.8 | 82.6 | 117.2 | 133.5 |
| LMTK3 | 202.4 | 246.7 | 138.6 | 102 | 109.6 | 110.4 | 180.8 | 271.9 |
| LMX1A | 73.8 | 90.8 | 89.9 | 78.9 | 80.3 | 77.1 | 71.1 | 85.5 |
| LMX1A | 85 | 94.6 | 89.8 | 85 | 74.1 | 77.7 | 94.8 | 98 |
| LMX1A | 83.4 | 91.9 | 100.5 | 100.7 | 86.2 | 93.3 | 72.7 | 84 |
| LMX1A | 90.3 | 105 | 94.1 | 85.8 | 85.3 | 81.8 | 86.9 | 103.6 |
| LMX1B | 112.3 | 113.8 | 102.7 | 90.2 | 88.4 | 91.2 | 103.8 | 123.1 |
| LNK | 629.2 | 905.4 | 832.8 | 850.7 | 735.5 | 1348.5 | 698.2 | 1300 |
| LNPEP | 90 | 110.6 | 120.7 | 102.4 | 104.3 | 107.2 | 82.4 | 98.7 |
| LNPEP | 315.7 | 464.9 | 204.5 | 226.5 | 211.5 | 246.6 | 272.2 | 336.2 |
| LNX1 | 81.2 | 92.9 | 86.7 | 89.5 | 87.2 | 92 | 84.4 | 87.3 |
| LNX2 | 151.4 | 186.5 | 132.7 | 143.8 | 117.6 | 163.6 | 131.8 | 237.4 |
| LOC112703 | 142.5 | 165.1 | 131.2 | 101.7 | 95.5 | 121.7 | 137.7 | 178.4 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| LOC112714 | 153.4 | 176.1 | 98.8 | 109.5 | 98.8 | 108.7 | 138.4 | 194.9 |
| LOC112869 | 179.8 | 220 | 133.3 | 124.1 | 102.4 | 130.5 | 167.2 | 205.1 |
| LOC112869 | 309 | 392.3 | 231.8 | 194.7 | 166.9 | 199.1 | 312.5 | 309.3 |
| LOC113179 | 181.7 | 252.1 | 211.4 | 127.9 | 135 | 134.7 | 180.3 | 278.5 |
| LOC113386 | 916.9 | 1224.8 | 724.8 | 433.5 | 414.6 | 542.5 | 768.3 | 822.1 |
| LOC113444 | 313.8 | 461.3 | 206.9 | 245.5 | 212.2 | 283.1 | 315.1 | 395 |
| LOC114984 | 261 | 317.9 | 216.8 | 192.9 | 187.5 | 253.8 | 257.3 | 394 |
| LOC115098 | 251.3 | 300.7 | 196.9 | 159.7 | 149 | 182.1 | 255.1 | 320.7 |
| LOC116143 | 676.3 | 726.2 | 343.5 | 345.7 | 276.5 | 284.3 | 494.6 | 551.9 |
| LOC116236 | 404.6 | 509.4 | 189.4 | 208.8 | 176.9 | 303.2 | 356.2 | 559.1 |
| LOC119710 | 827.2 | 1020.3 | 644.5 | 571.1 | 463.4 | 676.1 | 858.5 | 1146.3 |
| LOC120379 | 86.5 | 93.5 | 89 | 81.3 | 73.3 | 73.7 | 75.5 | 99.5 |
| LOC122258 | 130.9 | 139.7 | 94.6 | 75.5 | 72.9 | 79.8 | 120.5 | 111.8 |
| LOC123688 | 132.1 | 168.3 | 150.6 | 185.4 | 164.2 | 160.2 | 165.4 | 218.2 |
| LOC123876 | 80.1 | 85.1 | 73 | 70.3 | 74.6 | 85.7 | 85.9 | 88.1 |
| LOC124220 | 85.8 | 90.1 | 92.4 | 83.5 | 76.9 | 81.9 | 91.9 | 93.2 |
| LOC124446 | 1160.1 | 1483.7 | 1044.4 | 826.5 | 703.5 | 909.4 | 1006.5 | 1864.5 |
| LOC124512 | 319.7 | 439.1 | 237.9 | 249.2 | 191.1 | 243.3 | 243.1 | 292.2 |
| LOC124512 | 642.7 | 826.3 | 183.1 | 191.9 | 166.6 | 216.3 | 491.8 | 690.7 |
| LOC124512 | 365.1 | 447.4 | 233.1 | 210.6 | 166.4 | 203.4 | 250.6 | 302.5 |
| LOC124751 | 95.1 | 124.3 | 87.2 | 91.4 | 87.6 | 87.4 | 104.3 | 121.3 |
| LOC124842 | 103.1 | 120 | 90.1 | 79.9 | 89.1 | 83.9 | 95.4 | 108 |
| LOC125893 | 621.9 | 803.1 | 499.7 | 394.2 | 298.6 | 478.5 | 444 | 676.8 |
| LOC126075 | 100.2 | 102.7 | 88.7 | 84 | 78.9 | 88.9 | 87.6 | 85.2 |
| LOC126147 | 72.3 | 86 | 103.4 | 77.7 | 82.1 | 86.9 | 76.6 | 94.7 |
| LOC126208 | 1848.9 | 2072.4 | 1324.9 | 1114.9 | 1023.1 | 1132.5 | 1715.6 | 1759.1 |
| LOC126248 | 107.6 | 129.9 | 83.8 | 74.4 | 67.5 | 79.5 | 105 | 131.3 |
| LOC126295 | 191.6 | 218.4 | 118.1 | 114.7 | 99.4 | 117.7 | 151.7 | 186.3 |
| LOC126536 | 115.1 | 125.2 | 119.3 | 110.6 | 102.2 | 117.7 | 108.6 | 116.2 |
| LOC128153 | 100.9 | 118.4 | 89.8 | 87.5 | 85.4 | 98.5 | 101.3 | 113.7 |
| LOC128439 | 274 | 336.9 | 207.2 | 149.5 | 154.4 | 157.7 | 248.6 | 210.5 |
| LOC128977 | 270.5 | 331.3 | 244.8 | 247.8 | 210.4 | 276.7 | 229.3 | 259.6 |
| LOC129138 | 543.6 | 721 | 424.7 | 354.1 | 298.9 | 499.9 | 485 | 653 |
| LOC129285 | 414.8 | 549.8 | 228.6 | 275.9 | 201.5 | 344 | 340.9 | 368.6 |
| LOC129530 | 115.7 | 122.9 | 120.1 | 99.7 | 101.7 | 111.9 | 99.7 | 122.9 |
| LOC129531 | 1511.2 | 1848.7 | 837 | 963.5 | 935.6 | 1332.2 | 1348 | 1757.3 |
| LOC129607 | 170.7 | 208.2 | 132.5 | 116.3 | 93.6 | 137.8 | 145.2 | 190.2 |
| LOC130074 | 229.2 | 356.1 | 204.6 | 273.2 | 230.7 | 303.4 | 210.2 | 356.1 |
| LOC130355 | 494.3 | 607.3 | 243.8 | 171.2 | 163.3 | 244.8 | 594.2 | 1101.8 |
| LOC130576 | 100.6 | 125.7 | 110.8 | 93.8 | 96.1 | 94.1 | 108.7 | 118 |
| LOC130940 | 81.1 | 85.2 | 89.9 | 95.8 | 91.1 | 83.3 | 80.4 | 83.5 |
| LOC130951 | 123.8 | 142.4 | 104 | 100.4 | 89 | 97.5 | 126.6 | 160 |
| LOC131149 | 102.6 | 102.3 | 85.8 | 88 | 80.9 | 83.3 | 87.9 | 118.8 |
| LOC132203 | 78.6 | 92.3 | 94 | 84.8 | 91 | 90.6 | 86 | 85.6 |
| LOC132241 | 129.6 | 130.1 | 100.2 | 90.8 | 102.7 | 91.1 | 109.7 | 133.7 |
| LOC132321 | 267.9 | 332.8 | 123 | 122.8 | 98 | 169.7 | 243.5 | 403.9 |
| LOC133308 | 225.3 | 267.4 | 138.1 | 106.3 | 98 | 113.5 | 170.3 | 250 |
| LOC133619 | 826.2 | 1154.3 | 379.8 | 607.9 | 432.7 | 633.6 | 924.5 | 1451.2 |
| LOC134145 | 87.8 | 91.7 | 94.9 | 92.4 | 95 | 86.6 | 74 | 91.3 |
| LOC134147 | 107.7 | 115.6 | 119 | 163.2 | 130.5 | 152.5 | 105.9 | 152.1 |

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|-----------|---------|---------|--------|--------|--------|-------|-------|---------|
| LOC134997 | 22056.5 | 24809.7 | 9566.6 | 5620.6 | 4031.8 | 7847 | 19180 | 23462.1 |
| LOC136242 | 98 | 114 | 92.2 | 94.2 | 82.7 | 79.2 | 108.5 | 105.8 |
| LOC136263 | 130.1 | 156.1 | 98.7 | 84 | 93.2 | 95.3 | 115 | 130.3 |
| LOC136306 | 78.1 | 88.8 | 83.2 | 89.4 | 85.4 | 94.1 | 77.5 | 90.7 |
| LOC138046 | 74.3 | 83.1 | 70.4 | 68.9 | 75.7 | 70.7 | 66.3 | 73.4 |
| LOC138255 | 95.8 | 105.5 | 93.4 | 97.9 | 89.6 | 92.4 | 89.8 | 100.1 |
| LOC139886 | 706 | 775.7 | 469.3 | 610.8 | 398.7 | 707.2 | 512.8 | 804.6 |
| LOC143188 | 113.1 | 119.8 | 82.4 | 71.4 | 80.1 | 78.6 | 95.1 | 110.2 |
| LOC143543 | 371.9 | 400.5 | 189.2 | 167.7 | 146.6 | 188.8 | 270.3 | 443.9 |
| LOC143941 | 81 | 104.1 | 118.1 | 111.7 | 97.8 | 113.2 | 89.6 | 89.1 |
| LOC144097 | 130 | 146 | 94.5 | 95.3 | 82.1 | 89 | 128.9 | 182 |
| LOC144233 | 537.2 | 686.3 | 380 | 356.5 | 264.1 | 394.7 | 501.2 | 629.4 |
| LOC144363 | 706.6 | 855.6 | 498.9 | 619.4 | 432.5 | 618 | 619.2 | 1050.4 |
| LOC144404 | 94.4 | 112.8 | 100.6 | 80.6 | 83.2 | 91.4 | 81.3 | 92.6 |
| LOC144404 | 100.9 | 127.2 | 111.7 | 127.2 | 107.8 | 108.2 | 98.8 | 104.8 |
| LOC144501 | 115.2 | 144.8 | 77.6 | 81.9 | 80.7 | 84.4 | 105 | 125.2 |
| LOC144501 | 87 | 107 | 98.5 | 75.1 | 78.4 | 85.7 | 98.4 | 102.6 |
| LOC144983 | 139.5 | 201.4 | 102.3 | 93.2 | 84.6 | 102.9 | 147.1 | 150.1 |
| LOC144983 | 71.7 | 83.1 | 76.2 | 82.6 | 83.7 | 76 | 75.5 | 85 |
| LOC146167 | 97.3 | 127.2 | 94 | 92.3 | 91.4 | 86.3 | 111 | 107.2 |
| LOC146325 | 97.9 | 93.7 | 77.8 | 79.4 | 79.8 | 78.6 | 88.8 | 96.4 |
| LOC146562 | 92.2 | 104 | 94.1 | 89.5 | 90.3 | 88.2 | 92.6 | 105.7 |
| LOC146713 | 94.1 | 113.1 | 83.7 | 85.8 | 95.1 | 87.4 | 104 | 116.4 |
| LOC146909 | 99.4 | 114.9 | 90.8 | 105.4 | 98.3 | 87 | 90.7 | 109.8 |
| LOC146909 | 97.1 | 109.6 | 105.5 | 106.2 | 95.6 | 108.5 | 103 | 106.9 |
| LOC147808 | 167.9 | 198.3 | 143.2 | 130.6 | 132.4 | 122.3 | 184.3 | 183.3 |
| LOC148898 | 100.4 | 114.9 | 111.3 | 98 | 97.3 | 98.9 | 96.9 | 91.9 |
| LOC149643 | 90.7 | 99.8 | 104.5 | 96.3 | 91.8 | 104.6 | 89.5 | 97 |
| LOC149950 | 106.1 | 123.7 | 97 | 89.7 | 82.9 | 82.8 | 104.7 | 115.2 |
| LOC150084 | 98.4 | 97.4 | 113 | 102.5 | 96.5 | 97.9 | 95.2 | 102.2 |
| LOC150223 | 521.7 | 640.3 | 300 | 223 | 166.9 | 232.3 | 341.6 | 483.3 |
| LOC150297 | 94 | 93.5 | 87.2 | 86.7 | 86.1 | 86.2 | 92.2 | 102 |
| LOC150383 | 92.3 | 94.9 | 84.1 | 94.4 | 79.7 | 79.1 | 91.2 | 100.8 |
| LOC150383 | 213.3 | 290.3 | 208.6 | 160.1 | 160.4 | 194.2 | 188 | 236.9 |
| LOC150383 | 122.7 | 143.5 | 103.3 | 87.5 | 84.4 | 108.6 | 111.6 | 121.4 |
| LOC150763 | 152 | 172.9 | 102.6 | 95.6 | 91.4 | 95.9 | 137.2 | 187.5 |
| LOC150786 | 87.1 | 96.8 | 85.8 | 86.8 | 79 | 86.2 | 88.7 | 86.8 |
| LOC151121 | 87.1 | 100.5 | 96.1 | 80.6 | 85.2 | 74.9 | 84.3 | 86.5 |
| LOC152195 | 111.5 | 122.7 | 108.4 | 145 | 132.7 | 154.6 | 108.3 | 98.8 |
| LOC152485 | 124 | 137.4 | 116.1 | 99 | 98.3 | 97.6 | 125.1 | 119.7 |
| LOC152573 | 118 | 142.5 | 134.4 | 129.6 | 107.5 | 143.6 | 93 | 120.2 |
| LOC152667 | 77 | 91.4 | 98.9 | 80.7 | 89.2 | 92.7 | 78 | 93.5 |
| LOC153222 | 170.4 | 180 | 166.6 | 266.4 | 228.6 | 257.8 | 198.8 | 406.8 |
| LOC153328 | 166.6 | 206.8 | 135.1 | 113.9 | 111.6 | 107.3 | 167.3 | 176 |
| LOC153364 | 166 | 209 | 147.7 | 164 | 138.2 | 194.6 | 147.8 | 209 |
| LOC154907 | 80.6 | 88.4 | 84.7 | 84.5 | 82.8 | 79.2 | 76.8 | 80.2 |
| LOC155100 | 90.1 | 100.8 | 90.6 | 84.3 | 82.5 | 82.3 | 88.8 | 83.2 |
| LOC158160 | 633.4 | 731.3 | 210.6 | 198.7 | 180.5 | 228.2 | 533.9 | 670.7 |
| LOC158160 | 95.2 | 104.2 | 80 | 89.1 | 85.4 | 99.7 | 94.1 | 102.1 |
| LOC158160 | 195.9 | 236.5 | 122.5 | 111.2 | 123.4 | 120.8 | 181.6 | 219.8 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| LOC158381 | 108.9 | 128.3 | 108.5 | 99.3 | 107.6 | 100.4 | 116.7 | 124.5 |
| LOC15883C | 106.1 | 120.6 | 99.3 | 90.8 | 87.4 | 85.6 | 100.4 | 115.9 |
| LOC161247 | 108.2 | 116.2 | 101.6 | 94.8 | 86.2 | 91.7 | 94 | 109.5 |
| LOC161931 | 96.5 | 122.7 | 86.9 | 85.5 | 81.9 | 84.4 | 109.2 | 121.8 |
| LOC162073 | 104.7 | 116.3 | 91.3 | 84.9 | 81.4 | 82.7 | 121.9 | 110.6 |
| LOC162427 | 129 | 130.5 | 94 | 83.8 | 94.1 | 92.1 | 122.2 | 141.7 |
| LOC163131 | 105.8 | 123.7 | 98.8 | 84 | 88.1 | 90.2 | 102.7 | 115 |
| LOC16438C | 75.8 | 85.3 | 86.1 | 88.1 | 88.2 | 84.1 | 77.4 | 82.4 |
| LOC164714 | 97.7 | 115.8 | 107.5 | 90.8 | 96.8 | 92.9 | 111.1 | 109.5 |
| LOC165186 | 116.1 | 142.7 | 94.7 | 96.8 | 83.5 | 92.8 | 92.8 | 129.1 |
| LOC168474 | 144.6 | 165.4 | 110.3 | 118.7 | 95 | 112.9 | 114.6 | 147.1 |
| LOC16885C | 644.4 | 862.3 | 513.2 | 626.7 | 453.2 | 690.4 | 582.3 | 1026 |
| LOC196264 | 162.4 | 188.6 | 104.3 | 91.3 | 84.3 | 88.2 | 150.8 | 165.2 |
| LOC196394 | 112.7 | 133.9 | 100 | 87.8 | 83 | 112.6 | 112.1 | 136.7 |
| LOC196463 | 118.5 | 151.8 | 154.6 | 226.5 | 162 | 223.2 | 132.3 | 252.2 |
| LOC196541 | 87.3 | 102.6 | 85.2 | 80.6 | 80.9 | 87.7 | 94.5 | 104.8 |
| LOC196913 | 88.5 | 99.1 | 93.9 | 105.7 | 81 | 86.8 | 87.3 | 102.3 |
| LOC197322 | 314.4 | 360.8 | 235.3 | 216.6 | 201.1 | 228.4 | 266.1 | 287.6 |
| LOC197336 | 350.5 | 339.9 | 348.2 | 266.6 | 220 | 296.1 | 228 | 283.3 |
| LOC198437 | 116 | 128.8 | 111.3 | 89.2 | 84.5 | 88.8 | 100.9 | 126.1 |
| LOC200312 | 97.5 | 122.9 | 101.5 | 103.5 | 99.6 | 113.3 | 94.1 | 138.3 |
| LOC20042C | 117.9 | 132.4 | 110.3 | 90.3 | 91.6 | 97.2 | 116.7 | 137.7 |
| LOC20081C | 110.8 | 121.6 | 103.8 | 101.2 | 90.5 | 94.9 | 98.5 | 105.9 |
| LOC201164 | 232 | 344.9 | 231.3 | 171.5 | 136.1 | 204.4 | 135.8 | 148 |
| LOC201175 | 212.9 | 282.2 | 150.5 | 126.8 | 107.4 | 119.1 | 202.7 | 178.6 |
| LOC201181 | 110.6 | 135.1 | 100.8 | 92.7 | 78.4 | 88.6 | 98.8 | 109.3 |
| LOC201229 | 107.1 | 116.7 | 92.2 | 92.8 | 88.4 | 104.5 | 95 | 116.3 |
| LOC201229 | 95.3 | 108.1 | 107.4 | 106.9 | 96.1 | 111.5 | 97.2 | 95.2 |
| LOC201725 | 424.3 | 486.7 | 188.9 | 192 | 126.8 | 189.3 | 352.9 | 687.2 |
| LOC202134 | 188.2 | 239 | 120.6 | 141 | 140.2 | 131.1 | 177.6 | 182.9 |
| LOC202459 | 110.6 | 151 | 96 | 94.8 | 80.9 | 102.1 | 127.5 | 144.2 |
| LOC203076 | 99 | 114.4 | 102.8 | 97.9 | 97 | 90.3 | 99.6 | 112.7 |
| LOC203413 | 88.4 | 105.9 | 91.4 | 80 | 90.2 | 86.5 | 80.9 | 92.9 |
| LOC203547 | 2869.4 | 3745 | 1733.8 | 2175.6 | 1523.8 | 2463.4 | 2361.6 | 2666.1 |
| LOC205251 | 495.9 | 612.4 | 176.3 | 152.6 | 131.2 | 179.3 | 318.9 | 292.3 |
| LOC219854 | 1976.9 | 2340.5 | 1057.3 | 798.2 | 637.7 | 873.2 | 1496.3 | 1949.4 |
| LOC220115 | 79.8 | 91.2 | 80.6 | 79.3 | 74 | 82.4 | 79.7 | 77.3 |
| LOC220115 | 81.2 | 103.9 | 99.1 | 92.6 | 82.9 | 76.8 | 77.4 | 100.9 |
| LOC220429 | 86 | 106.8 | 95.9 | 83.5 | 87.5 | 90.5 | 96.3 | 103.9 |
| LOC221091 | 84.7 | 109.5 | 83.8 | 82.2 | 82.8 | 86.1 | 92.9 | 84.8 |
| LOC221091 | 80.9 | 85.4 | 96.8 | 86.4 | 87.7 | 86.3 | 84.4 | 83 |
| LOC221143 | 994 | 1087.5 | 481.9 | 475.7 | 335 | 510.9 | 809.1 | 1089.4 |
| LOC221711 | 106.5 | 110.5 | 105.2 | 100.2 | 108.9 | 106.2 | 96.2 | 99.9 |
| LOC221955 | 857.4 | 1075.9 | 517.5 | 656.6 | 530.6 | 595.5 | 662.1 | 753.2 |
| LOC222967 | 94 | 91.5 | 94.7 | 88.2 | 86.2 | 94.7 | 98.9 | 109.1 |
| LOC222967 | 116.8 | 138.8 | 94.3 | 89.3 | 83.3 | 87.5 | 122.2 | 121.9 |
| LOC253012 | 95.3 | 119.3 | 92.7 | 86.3 | 83.8 | 82.5 | 101.1 | 114.5 |
| LOC253012 | 94.2 | 105.9 | 119.4 | 100.7 | 102.2 | 104.9 | 96.9 | 94.2 |
| LOC253012 | 73.2 | 83.5 | 71.6 | 88.3 | 79.7 | 80.2 | 76.9 | 74.9 |
| LOC255374 | 97 | 123.4 | 99.4 | 82 | 79.8 | 90.4 | 102.6 | 107.9 |

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| LOC25735E | 94 | 99 | 89.6 | 89.3 | 87.9 | 85.1 | 100.1 | 101.1 |
| LOC26033E | 85.3 | 105.5 | 99.9 | 90.4 | 93.7 | 93.1 | 99.2 | 103 |
| LOC260341 | 88.9 | 101.7 | 91.3 | 85.9 | 86.3 | 96.5 | 82.8 | 94.1 |
| LOC28312E | 88.5 | 92.2 | 87.4 | 84.1 | 89.2 | 85.6 | 84.6 | 93.2 |
| LOC28312E | 87.2 | 99.3 | 92.8 | 82.7 | 79.6 | 85.8 | 96.1 | 96.2 |
| LOC28313C | 91.9 | 113.9 | 98.9 | 88.5 | 79 | 83.8 | 100.1 | 122.1 |
| LOC283152 | 102.9 | 112.4 | 95.8 | 86.3 | 89.3 | 87.4 | 89.4 | 106.9 |
| LOC283152 | 84.5 | 92.4 | 96.2 | 86.9 | 90.4 | 99.3 | 75.7 | 93.7 |
| LOC283174 | 91.1 | 99.1 | 106.4 | 104.7 | 100.3 | 97.1 | 99.7 | 91 |
| LOC28321E | 663.2 | 724.6 | 429.1 | 316.4 | 283.1 | 371.3 | 695.9 | 703.9 |
| LOC28334E | 823 | 1066.3 | 475.7 | 359.6 | 291 | 411.8 | 630.9 | 1190.5 |
| LOC283377 | 141.8 | 190.9 | 121.7 | 108.9 | 96.8 | 110.9 | 142.7 | 151.7 |
| LOC283392 | 96.7 | 91.6 | 100.2 | 93.9 | 100 | 93.6 | 86.9 | 82.8 |
| LOC283514 | 109.6 | 140.1 | 92 | 90.4 | 91.6 | 89.4 | 95.5 | 117.4 |
| LOC283537 | 301 | 431.6 | 309.2 | 339.6 | 255.7 | 433.5 | 265.5 | 532.3 |
| LOC283551 | 83.7 | 97.9 | 95 | 88.9 | 80 | 89.5 | 94.7 | 87.2 |
| LOC283677 | 90.5 | 97.1 | 94.7 | 85.1 | 86.5 | 79.4 | 96 | 111.5 |
| LOC28375E | 82.8 | 91.2 | 87 | 77.8 | 83.7 | 91.4 | 78.2 | 84.7 |
| LOC283871 | 198.8 | 225.6 | 211.3 | 175.6 | 157.3 | 193.8 | 163.2 | 306.3 |
| LOC283874 | 193 | 210.2 | 132.9 | 114.9 | 122.8 | 138.1 | 170.6 | 211 |
| LOC283951 | 1353.1 | 1849.2 | 955.4 | 733.1 | 562.8 | 921.9 | 1158.6 | 1803.5 |
| LOC28400E | 75.8 | 89.6 | 93.7 | 87.3 | 83.8 | 83.1 | 95.6 | 94.6 |
| LOC284194 | 173.5 | 197.6 | 162 | 127.9 | 108.7 | 124.6 | 159.5 | 207.4 |
| LOC284274 | 94.5 | 126.6 | 89.6 | 91.6 | 80 | 79.3 | 100.1 | 101.6 |
| LOC28432E | 106.7 | 116.4 | 90 | 84.5 | 83.6 | 86.4 | 95.1 | 110.6 |
| LOC284361 | 84.3 | 81.3 | 91 | 83.9 | 76.9 | 91.2 | 79.1 | 92.6 |
| LOC284361 | 136.4 | 172.2 | 127.5 | 99 | 96.2 | 110.4 | 144.2 | 241.9 |
| LOC28437E | 81.8 | 88.8 | 116.8 | 102.8 | 102.9 | 102.9 | 79.1 | 81.2 |
| LOC284402 | 94.3 | 114.5 | 101.1 | 85.9 | 81.8 | 93.7 | 95.1 | 100.5 |
| LOC284434 | 80.1 | 84.3 | 86.4 | 80.2 | 80.2 | 80.1 | 76.8 | 78 |
| LOC284441 | 87.1 | 91.9 | 101.3 | 87.5 | 90.5 | 86.1 | 89 | 91.2 |
| LOC28473E | 91.5 | 106 | 86 | 83.1 | 83 | 86.5 | 89.9 | 94.4 |
| LOC284751 | 89.5 | 106.3 | 86.9 | 86.9 | 69.2 | 82.9 | 87.1 | 110.7 |
| LOC284757 | 100.6 | 119.2 | 86.5 | 140.2 | 155.2 | 122.7 | 112.4 | 108.6 |
| LOC284912 | 120.2 | 138 | 95.8 | 82.8 | 84.2 | 95 | 126.1 | 135.2 |
| LOC28494E | 88.5 | 87.3 | 100.2 | 84 | 82 | 93.3 | 83.6 | 92.5 |
| LOC28501E | 120.7 | 138.7 | 102.7 | 102.4 | 98.3 | 100.9 | 119.1 | 119.6 |
| LOC28503E | 105.7 | 112.9 | 91.5 | 87.9 | 97.3 | 106.4 | 104.4 | 127.9 |
| LOC285074 | 672.9 | 1035.7 | 433.5 | 484.2 | 413.6 | 602.3 | 704.8 | 983.8 |
| LOC28519E | 471.7 | 629.4 | 431.1 | 450.2 | 375 | 473.8 | 430.1 | 558.1 |
| LOC28535E | 167.2 | 212.5 | 103.8 | 100.9 | 79.2 | 89.8 | 170 | 221.8 |
| LOC285382 | 188.7 | 239.5 | 128.9 | 102.5 | 108.2 | 111 | 157.7 | 179.1 |
| LOC28542E | 128.2 | 138.6 | 106.1 | 110.9 | 98.1 | 128.3 | 129.8 | 146.1 |
| LOC28545E | 156.9 | 218.3 | 129.4 | 102.9 | 92.6 | 113.8 | 155.9 | 159.4 |
| LOC28549E | 176.3 | 217.4 | 127.1 | 154.4 | 141 | 162.9 | 147.7 | 172.3 |
| LOC28551E | 94.7 | 96.3 | 98.5 | 80.3 | 85.5 | 86 | 93.7 | 90.8 |
| LOC285527 | 90.5 | 109.8 | 87.8 | 97.4 | 95 | 92.3 | 90.3 | 102 |
| LOC28563E | 686.5 | 887.8 | 517.1 | 603.6 | 488 | 1124.8 | 489.5 | 961.2 |
| LOC28573E | 88.2 | 99.1 | 92.5 | 85.2 | 77.6 | 81.2 | 94.1 | 96.1 |
| LOC28590E | 134.9 | 162.7 | 122.9 | 159.4 | 165.4 | 168.1 | 129.6 | 141.2 |

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| LOC28598E | 605.7 | 698.5 | 347.3 | 572.2 | 539.8 | 741.7 | 497.9 | 599.9 |
| LOC28598E | 125.3 | 137 | 102.7 | 96.9 | 101.9 | 104.5 | 104.8 | 107.1 |
| LOC28598E | 352.7 | 427 | 225 | 437.3 | 383 | 448.8 | 282.3 | 360.9 |
| LOC28607E | 97.5 | 105.3 | 84.7 | 88.6 | 84.6 | 79.1 | 89.6 | 112 |
| LOC286187 | 92.7 | 98.4 | 87.4 | 79.2 | 83.2 | 92.8 | 83 | 112.3 |
| LOC28652E | 94.3 | 93.5 | 101.8 | 86.4 | 85 | 86.7 | 91.7 | 95.7 |
| LOC33832E | 91.4 | 114.8 | 91.2 | 76.7 | 80.1 | 79.6 | 100.8 | 116 |
| LOC33832E | 86 | 85.9 | 98.7 | 91.8 | 91.2 | 90.2 | 86.7 | 94.9 |
| LOC33879E | 104.2 | 109.4 | 140.9 | 105.1 | 110.1 | 132.7 | 84.4 | 100.1 |
| LOC33912E | 4930.9 | 6164.1 | 3252.2 | 2439.5 | 2093 | 2208.3 | 4267.5 | 3396.6 |
| LOC33922E | 2296.1 | 3065.4 | 1901.3 | 1594.7 | 1412.3 | 1720.2 | 1867.8 | 1714.1 |
| LOC33922E | 269.6 | 312 | 229.4 | 169.5 | 159.5 | 200.1 | 194.4 | 226.2 |
| LOC33924C | 92.3 | 108.2 | 88 | 84.7 | 73.2 | 81.4 | 101.1 | 101.8 |
| LOC339344 | 1448.1 | 1633.2 | 1095.5 | 770.2 | 642 | 748 | 1198.4 | 1707.2 |
| LOC339457 | 105.6 | 114.2 | 101.8 | 94.4 | 92.2 | 98.3 | 108.4 | 108.1 |
| LOC33974E | 120.8 | 131.6 | 119.1 | 103.5 | 91.7 | 118.3 | 120.2 | 158.3 |
| LOC339977 | 96.1 | 109.2 | 90.9 | 79.7 | 87.6 | 82.4 | 93 | 126.7 |
| LOC34006E | 95.9 | 103.7 | 91.6 | 87.3 | 88 | 90.5 | 96 | 88.6 |
| LOC34015E | 96.3 | 121.1 | 95.2 | 92.2 | 86.1 | 95 | 109.9 | 111 |
| LOC34026C | 89 | 111.6 | 86.9 | 80.7 | 83 | 85.6 | 105.3 | 97.6 |
| LOC340527 | 160.4 | 187.2 | 90.2 | 90 | 94.5 | 83.3 | 146.2 | 170.5 |
| LOC340527 | 142.3 | 154 | 114 | 102.6 | 93.3 | 108.3 | 113.5 | 137.6 |
| LOC340527 | 83 | 97 | 97.4 | 93.6 | 86.2 | 83 | 85 | 94.5 |
| LOC34052E | 106.4 | 113.5 | 95 | 79.8 | 85.9 | 89.6 | 110.4 | 120 |
| LOC34057E | 114.3 | 166.6 | 107.1 | 113.9 | 105.3 | 106.4 | 113 | 142.7 |
| LOC340602 | 87.7 | 94.6 | 88.5 | 98 | 87.7 | 93.5 | 89.5 | 82 |
| LOC34084E | 96.4 | 107.1 | 100.4 | 92.9 | 82 | 97.4 | 99.7 | 105.3 |
| LOC342897 | 114.2 | 117.5 | 95.4 | 95.4 | 88.3 | 94 | 104.5 | 108.2 |
| LOC34306E | 105.4 | 124.5 | 90.7 | 84.6 | 81.2 | 89.8 | 88.7 | 112.1 |
| LOC343521 | 135.3 | 156.7 | 97.2 | 93.5 | 96.3 | 97.6 | 122.2 | 133.8 |
| LOC34440E | 114.4 | 131.5 | 106.8 | 101.3 | 92 | 102.5 | 109.2 | 115 |
| LOC34440E | 127.5 | 145 | 103.2 | 98.2 | 103.1 | 103.1 | 117.4 | 136.3 |
| LOC344657 | 101.4 | 106.2 | 91.2 | 82.2 | 81 | 78 | 88.7 | 97.5 |
| LOC345222 | 122.9 | 141.7 | 92.9 | 85.9 | 79.7 | 81 | 138.3 | 123.3 |
| LOC345222 | 102.9 | 105.5 | 97.6 | 96.4 | 88.4 | 87.2 | 95.4 | 98.9 |
| LOC346157 | 82.7 | 101.6 | 93.1 | 78.9 | 79.6 | 87.1 | 86 | 99.5 |
| LOC34665E | 92.4 | 99.6 | 98.8 | 84.8 | 82.2 | 89.2 | 95 | 100.5 |
| LOC34667E | 99.1 | 118.7 | 101.4 | 86.9 | 93 | 100.5 | 88.4 | 99.5 |
| LOC34727E | 119.1 | 138.1 | 104.6 | 101.3 | 100 | 104.4 | 112.3 | 128.6 |
| LOC347487 | 92.4 | 103.5 | 81.5 | 74.1 | 73.6 | 81.5 | 89.3 | 110.9 |
| LOC348174 | 99.6 | 113 | 98.6 | 81.8 | 86.1 | 87.2 | 102.2 | 124.4 |
| LOC34818C | 125.1 | 171.1 | 117.4 | 100.4 | 100.4 | 106 | 126.2 | 136 |
| LOC34818C | 173.1 | 241.7 | 162.1 | 124.2 | 127.2 | 136.6 | 143.6 | 217.7 |
| LOC34818C | 140.9 | 163.2 | 92.5 | 68.7 | 73.8 | 83.9 | 130 | 142.4 |
| LOC348262 | 327.6 | 456 | 272.9 | 190.5 | 161.3 | 183.7 | 316.3 | 573.3 |
| LOC34864E | 103.2 | 126.2 | 104.6 | 186.3 | 171.7 | 116.2 | 104.4 | 108.3 |
| LOC34884C | 193.3 | 203.7 | 112.5 | 95.7 | 96 | 90.2 | 173.2 | 187.5 |
| LOC349114 | 190.6 | 181.4 | 154 | 153.7 | 146.8 | 213.7 | 183.5 | 259.7 |
| LOC34913E | 98.7 | 121.8 | 99.2 | 96.6 | 85.2 | 91.9 | 109 | 110.1 |
| LOC34923E | 79.3 | 100.5 | 88.4 | 90.5 | 99.5 | 97.8 | 92.1 | 85.7 |

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| LOC34933E | 267.2 | 293.2 | 195.5 | 182.2 | 199.4 | 281.8 | 232.9 | 334.2 |
| LOC35290E | 86.6 | 113 | 94.5 | 88.3 | 80.8 | 88.9 | 88.7 | 106 |
| LOC37439E | 5276.7 | 6135.5 | 3793.7 | 3018.3 | 2234.8 | 2482.1 | 5224 | 6937 |
| LOC374491 | 76.3 | 86.7 | 97.2 | 90.3 | 78.2 | 96.6 | 78.4 | 79.2 |
| LOC374491 | 91.7 | 105 | 123.5 | 104.4 | 106.7 | 101.6 | 90.7 | 98.9 |
| LOC37492C | 192.6 | 212 | 114.2 | 114.4 | 106.2 | 118.8 | 186.4 | 192.2 |
| LOC37532E | 88.7 | 103.3 | 113.4 | 102.4 | 100.8 | 101.7 | 93.8 | 92.2 |
| LOC37544E | 113.3 | 147.4 | 91.4 | 89.6 | 92.6 | 86.2 | 112.3 | 120.6 |
| LOC37574E | 97.5 | 114.6 | 92.9 | 93.5 | 91 | 91.5 | 91.3 | 106.9 |
| LOC387601 | 82.2 | 97.5 | 90.1 | 89.1 | 82.9 | 83.4 | 81.9 | 91.2 |
| LOC38764E | 81.6 | 102.9 | 99.9 | 99.1 | 84 | 99.2 | 93.1 | 92.7 |
| LOC38768C | 109.6 | 154.9 | 104.2 | 99.7 | 98.7 | 102.4 | 111.3 | 130.7 |
| LOC38775E | 101.4 | 100.6 | 93.5 | 90.2 | 87.3 | 88.3 | 102.6 | 97.7 |
| LOC38775E | 90.3 | 102.8 | 90.5 | 86.2 | 85 | 90 | 92.7 | 102.5 |
| LOC38777E | 92.2 | 110.4 | 90.2 | 83.8 | 84.2 | 88 | 90.3 | 92.4 |
| LOC38777E | 103.9 | 120.5 | 91.3 | 77.3 | 85.5 | 92.8 | 107.4 | 116.1 |
| LOC38777E | 104.5 | 116.7 | 103 | 98.4 | 102.4 | 101.6 | 109.7 | 105.4 |
| LOC38785E | 99.5 | 107.1 | 91 | 89.7 | 79 | 78.9 | 104.6 | 106.4 |
| LOC38785E | 88.7 | 103.2 | 81.5 | 77.7 | 80.4 | 81.9 | 91.2 | 99.6 |
| LOC38785E | 118.4 | 116.6 | 105.5 | 113.8 | 93.3 | 97 | 106.9 | 127.9 |
| LOC387911 | 92.6 | 110.2 | 92 | 82.8 | 79 | 81.4 | 118.7 | 100.9 |
| LOC387921 | 136.2 | 168.1 | 109.7 | 99.5 | 98.2 | 109.5 | 117.3 | 132.1 |
| LOC387921 | 400.4 | 459.4 | 320.2 | 359.1 | 311.6 | 548.6 | 255.2 | 437.9 |
| LOC38813E | 111.8 | 113.1 | 102.5 | 87.2 | 88.4 | 100.1 | 101.9 | 103.2 |
| LOC38819E | 80 | 86 | 95.5 | 89.3 | 77.8 | 80.3 | 78.5 | 88.3 |
| LOC388284 | 154.7 | 198.8 | 127.4 | 107.9 | 95.6 | 110.1 | 121.1 | 152.7 |
| LOC38832E | 79.9 | 94.7 | 84 | 73.8 | 79.6 | 81.6 | 90.3 | 94.2 |
| LOC38833E | 80.2 | 97.2 | 108.9 | 97.5 | 106 | 101.6 | 82.2 | 86.3 |
| LOC38838E | 138.1 | 161.7 | 138.4 | 113.1 | 104.3 | 117.4 | 160 | 180.5 |
| LOC388407 | 96.7 | 122.1 | 105.1 | 99 | 92.9 | 93.7 | 104.6 | 108.5 |
| LOC38841E | 88.1 | 104.5 | 86.3 | 85.3 | 83.2 | 79.8 | 88.4 | 101.9 |
| LOC38850E | 124.3 | 146.4 | 106.5 | 96.4 | 103.3 | 109.7 | 104.2 | 121.6 |
| LOC388524 | 32434.7 | 32864.7 | 33410.8 | 22590.5 | 19594.3 | 22152.2 | 34308.2 | 32545.1 |
| LOC38859E | 84.3 | 86.7 | 92.2 | 91.6 | 84.8 | 89.8 | 81.9 | 89.1 |
| LOC38861C | 133.3 | 159.5 | 132.8 | 113.3 | 104.3 | 127.8 | 128.9 | 142.5 |
| LOC388692 | 137.8 | 134.4 | 133.7 | 165.9 | 165.8 | 232.8 | 118 | 140.9 |
| LOC388882 | 107.5 | 106.6 | 89.7 | 93.9 | 90.6 | 85.4 | 90.9 | 111.5 |
| LOC38888E | 133.5 | 162.8 | 110.5 | 115.7 | 103.2 | 157.8 | 123.4 | 186.2 |
| LOC38891C | 75.8 | 86.7 | 92.3 | 83.6 | 84 | 86 | 77.8 | 80.4 |
| LOC38891E | 71.9 | 69.6 | 91 | 78.4 | 81.2 | 82 | 70.5 | 70.3 |
| LOC388931 | 88.1 | 90.8 | 97.9 | 93.1 | 83.4 | 90.3 | 86.4 | 93.2 |
| LOC38895E | 109.6 | 113.7 | 107.8 | 97.5 | 94.8 | 100 | 101.1 | 122.4 |
| LOC38896E | 105 | 97.1 | 103.9 | 88 | 84.4 | 88.7 | 96.3 | 114.8 |
| LOC389031 | 168 | 195.6 | 111.7 | 108.3 | 95.9 | 105.4 | 187.1 | 163.3 |
| LOC389072 | 85.5 | 107.7 | 95.1 | 102.7 | 76.3 | 92.3 | 91.3 | 93.3 |
| LOC38911E | 132 | 142.2 | 104.1 | 87.5 | 73.6 | 93.4 | 112.9 | 149.6 |
| LOC389151 | 82.2 | 92.1 | 84.1 | 83.1 | 88.7 | 80.8 | 85.8 | 91 |
| LOC389257 | 77 | 85.1 | 100.5 | 107.9 | 95 | 89 | 83 | 87 |
| LOC389257 | 79.4 | 95.3 | 94.7 | 88.3 | 82.1 | 90.4 | 91.7 | 85.5 |
| LOC38928E | 388.3 | 570.9 | 225.2 | 204 | 240.1 | 144.8 | 292.7 | 185.2 |

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|-----------|--------|--------|--------|--------|---------|-------|--------|---------|
| LOC389293 | 74.3 | 92.6 | 95.4 | 80.9 | 79.2 | 87.9 | 85.6 | 83.7 |
| LOC389429 | 86.4 | 97.3 | 88.5 | 86.6 | 87 | 84.5 | 86.1 | 97.3 |
| LOC389432 | 84 | 98 | 95.1 | 90.1 | 79.9 | 92.2 | 87.4 | 90.8 |
| LOC389458 | 100.5 | 135.3 | 94.4 | 90.5 | 78.4 | 96 | 94.5 | 110.6 |
| LOC389517 | 70.8 | 75.4 | 82.3 | 82.9 | 69.1 | 79.9 | 78.9 | 86.6 |
| LOC389541 | 1501.2 | 1599.1 | 590.7 | 677.4 | 656.6 | 895.5 | 1208.7 | 1302.8 |
| LOC389549 | 78.9 | 81.1 | 102.3 | 93.4 | 88 | 94.1 | 76.8 | 77.6 |
| LOC389607 | 86.7 | 104.4 | 95.5 | 98.3 | 83.9 | 91.7 | 95.7 | 110.3 |
| LOC389813 | 78.4 | 85.8 | 98.5 | 94.1 | 84.7 | 86.2 | 73.3 | 91.1 |
| LOC389816 | 1904.6 | 2552.4 | 1425 | 1035 | 899.4 | 715.1 | 966 | 938.8 |
| LOC389816 | 1610.2 | 2001.4 | 1268.6 | 1010.7 | 855.1 | 640.9 | 763.3 | 787.4 |
| LOC389827 | 82.2 | 89.8 | 94.4 | 94.4 | 88 | 93.8 | 77.9 | 90.5 |
| LOC389827 | 93.5 | 104.8 | 100.2 | 91.8 | 92.2 | 100.8 | 97 | 116.5 |
| LOC389832 | 113.6 | 128.6 | 106.5 | 81.2 | 85 | 91 | 107.3 | 121.6 |
| LOC389834 | 87.9 | 90 | 95.4 | 89.3 | 79.8 | 95.4 | 87.8 | 97 |
| LOC389936 | 92.5 | 101 | 84.7 | 75.6 | 77.1 | 83.6 | 85 | 89 |
| LOC390110 | 109.5 | 128.2 | 106 | 100.4 | 88.5 | 97 | 108.9 | 119.5 |
| LOC390243 | 97.2 | 95.5 | 90.6 | 80.8 | 70.9 | 76 | 88.6 | 100.6 |
| LOC390243 | 82.7 | 84.9 | 86.8 | 96.4 | 85.5 | 86.7 | 74.3 | 78.9 |
| LOC390637 | 129.8 | 153.8 | 113.9 | 99 | 100.2 | 101.7 | 124.6 | 106 |
| LOC390667 | 122.8 | 139.2 | 94.1 | 92.6 | 80.7 | 101.7 | 114.4 | 135.6 |
| LOC390688 | 112.2 | 124.1 | 92.8 | 89.6 | 95.4 | 93 | 104.5 | 135.5 |
| LOC390748 | 83.3 | 103 | 89.8 | 84.2 | 88 | 90.6 | 88.2 | 96.7 |
| LOC390748 | 103.9 | 120.3 | 108.9 | 98.5 | 92.2 | 104.3 | 116.1 | 105.9 |
| LOC390927 | 107.1 | 104.5 | 99 | 99.8 | 89.9 | 100.2 | 102.9 | 118 |
| LOC390999 | 96.6 | 101.4 | 95.9 | 95.2 | 78.1 | 90.3 | 88.8 | 98.8 |
| LOC391356 | 531.4 | 690.7 | 356.4 | 378.7 | 287.9 | 331.3 | 567.4 | 607.8 |
| LOC392196 | 76 | 79.1 | 93.7 | 88.1 | 83.9 | 94.4 | 81.2 | 75.4 |
| LOC392395 | 81.7 | 97.4 | 86.7 | 84.4 | 76.1 | 89.2 | 84.3 | 92.1 |
| LOC392465 | 102.9 | 136.4 | 96.6 | 87.2 | 79 | 87.3 | 101.6 | 137.5 |
| LOC399706 | 85.4 | 100.6 | 85.4 | 79.8 | 75.2 | 80 | 81 | 92.1 |
| LOC399744 | 125 | 159.5 | 97.7 | 112.8 | 104.2 | 118.2 | 143.4 | 167.5 |
| LOC399818 | 96.5 | 112.6 | 109.4 | 110.4 | 103.3 | 102.2 | 92.9 | 102.8 |
| LOC399898 | 85.1 | 110.9 | 108 | 92.6 | 94.4 | 96.4 | 84.7 | 91.7 |
| LOC399900 | 7410.1 | 7648.5 | 6271.1 | 10404 | 10102.5 | 7359 | 8496 | 12156.9 |
| LOC399947 | 83.4 | 85.8 | 105 | 91.9 | 86.1 | 99.2 | 77.9 | 89.3 |
| LOC400120 | 114.6 | 133.9 | 127.3 | 118.7 | 110.9 | 123.6 | 105.2 | 108.2 |
| LOC400258 | 136.2 | 141 | 101.8 | 95.1 | 87.1 | 93.6 | 132.2 | 128.1 |
| LOC400451 | 339.4 | 461.2 | 241.7 | 193.7 | 172.6 | 178.7 | 341.4 | 313.4 |
| LOC400464 | 186.9 | 223.1 | 159.9 | 234.5 | 225.2 | 276.1 | 161.9 | 178.9 |
| LOC400464 | 125.6 | 140.2 | 117 | 212 | 238.1 | 214 | 124.2 | 133 |
| LOC400499 | 86.7 | 88.7 | 102.1 | 99.5 | 99.6 | 95.4 | 89 | 94.9 |
| LOC400506 | 273.5 | 384.1 | 184.1 | 148.7 | 137.4 | 192.9 | 246.1 | 250.8 |
| LOC400566 | 438.8 | 522.7 | 289.3 | 252.7 | 187.2 | 239.9 | 289.9 | 439.3 |
| LOC400566 | 898.9 | 1145.9 | 504.5 | 465.9 | 340.4 | 431.9 | 562.9 | 568.3 |
| LOC400657 | 637.2 | 749.1 | 427.9 | 364.4 | 295.6 | 499.6 | 455.5 | 891.1 |
| LOC400707 | 119.3 | 123.6 | 96.8 | 86.9 | 79.2 | 84.8 | 94.9 | 108.2 |
| LOC400891 | 90.6 | 112.2 | 97 | 93 | 91.1 | 91.6 | 87 | 80.7 |
| LOC400924 | 125.6 | 156.3 | 98.7 | 112.3 | 100.8 | 101.8 | 139.7 | 164.3 |
| LOC400965 | 84.1 | 86.3 | 95.7 | 89.9 | 83.5 | 93.5 | 81.1 | 90.3 |

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|-----------|---------|---------|---------|---------|--------|---------|---------|---------|
| LOC40098E | 79 | 100 | 86.7 | 86.1 | 84.3 | 90.9 | 83.8 | 85.3 |
| LOC40098E | 256.6 | 264.4 | 107.7 | 157.5 | 143.8 | 158.6 | 129.3 | 378.7 |
| LOC40101C | 177.7 | 230.5 | 123.9 | 102.6 | 92.6 | 104 | 155.1 | 199.1 |
| LOC40101E | 28822.9 | 27757.2 | 14698.9 | 8843.2 | 6344.3 | 9041.8 | 28683.3 | 28664.5 |
| LOC401052 | 245.5 | 283.1 | 181.7 | 205.7 | 184.2 | 246.3 | 212.8 | 248.4 |
| LOC401072 | 96.9 | 98.8 | 105.6 | 102.3 | 91.2 | 93.5 | 83.7 | 98.7 |
| LOC401137 | 92.9 | 120 | 101.9 | 89.5 | 92.6 | 90.6 | 111.7 | 121.1 |
| LOC401152 | 400.6 | 498.1 | 268.4 | 285.6 | 243.1 | 278.3 | 392.5 | 601.9 |
| LOC40123E | 196.3 | 259.5 | 126.5 | 217.3 | 167 | 302.3 | 226.4 | 375 |
| LOC401252 | 99.3 | 103.7 | 93.2 | 87.4 | 76.9 | 88.1 | 91.9 | 107.9 |
| LOC40128E | 88.9 | 100.1 | 98.6 | 89.6 | 77.5 | 96.2 | 90 | 97.6 |
| LOC40129E | 102.2 | 110.9 | 117.3 | 109.3 | 112.9 | 110.4 | 91.7 | 99.1 |
| LOC401357 | 424.8 | 481 | 312.4 | 298.7 | 313.2 | 362 | 409.4 | 393 |
| LOC401387 | 71 | 104.8 | 94.3 | 88.7 | 79 | 87.1 | 82.9 | 100.1 |
| LOC40139E | 100.7 | 131.6 | 82 | 90.1 | 79.9 | 89.8 | 94.4 | 106.7 |
| LOC40141C | 91.6 | 84.7 | 92.5 | 84.9 | 83.6 | 80.3 | 80.3 | 91.6 |
| LOC401431 | 108.2 | 137.5 | 134.8 | 107.7 | 105.6 | 115.7 | 99.4 | 109.6 |
| LOC40149E | 77.3 | 96.7 | 88 | 80.8 | 78.5 | 78.9 | 79.7 | 86.2 |
| LOC401551 | 164.1 | 198.5 | 127.3 | 98.2 | 93.8 | 104.5 | 155.1 | 177.4 |
| LOC40156E | 91.6 | 112.2 | 102 | 96.4 | 92.3 | 90.8 | 101.4 | 108.2 |
| LOC40158E | 136.2 | 170.1 | 99.1 | 102.8 | 95.9 | 92.9 | 135.1 | 169.7 |
| LOC40189E | 101 | 119.8 | 102.9 | 96.8 | 85.1 | 82.1 | 100.5 | 107.6 |
| LOC40205E | 595.1 | 727.9 | 198.4 | 155 | 143.6 | 200.5 | 405.8 | 628.9 |
| LOC402057 | 227.9 | 278.6 | 131.6 | 128.3 | 120.8 | 132 | 241.2 | 812.9 |
| LOC40211C | 97.8 | 113.1 | 97.9 | 74.9 | 91 | 81.6 | 101.9 | 103.6 |
| LOC402117 | 90.7 | 101.6 | 92.2 | 81.4 | 79.2 | 88.9 | 87.9 | 92.7 |
| LOC40217E | 86.2 | 100.7 | 106.9 | 102.1 | 99 | 97.3 | 94.2 | 109.3 |
| LOC40257E | 106.2 | 109.3 | 94.1 | 89.8 | 83.9 | 87.4 | 106.6 | 120.5 |
| LOC402682 | 137.5 | 166.1 | 94.2 | 86.8 | 90.8 | 92.3 | 135.6 | 159.7 |
| LOC40575E | 85.2 | 104.7 | 95.3 | 88.5 | 85.5 | 89.8 | 89.5 | 96.6 |
| LOC40783E | 603.9 | 860.1 | 625.4 | 505.2 | 383.9 | 591.4 | 520.6 | 1021.6 |
| LOC43236E | 16838.9 | 18997.9 | 13317 | 11007.2 | 9198.4 | 12355.7 | 13466.6 | 15664 |
| LOC43998E | 80.9 | 89.3 | 98.8 | 93.3 | 89.7 | 86.3 | 80.7 | 85.2 |
| LOC44005E | 75.8 | 84.3 | 78.7 | 80 | 78 | 76.7 | 78.4 | 98.9 |
| LOC440087 | 98.4 | 113.7 | 97.1 | 88 | 87.5 | 87 | 94.7 | 113 |
| LOC44009E | 91.7 | 105.8 | 97.2 | 89.1 | 85.5 | 85.2 | 93.6 | 117.3 |
| LOC44014E | 508 | 613.2 | 223.3 | 213.1 | 170.2 | 237.6 | 419.6 | 813.8 |
| LOC44014E | 496 | 639.5 | 213.3 | 226.3 | 167.2 | 257 | 436.9 | 884.4 |
| LOC440157 | 254.3 | 259.3 | 178.3 | 199.4 | 189.9 | 220.9 | 183.7 | 218.9 |
| LOC44024E | 100.6 | 102.1 | 105.9 | 100.9 | 98.2 | 96.2 | 97 | 101.2 |
| LOC44029E | 93.1 | 102.1 | 92.2 | 88 | 76.6 | 79.3 | 88.4 | 93.2 |
| LOC44031E | 87.3 | 109.5 | 91.8 | 88.8 | 88.9 | 87.5 | 98.6 | 100.3 |
| LOC44034E | 325.4 | 379.7 | 262.7 | 229 | 244.8 | 317.1 | 275.3 | 463 |
| LOC44035C | 130 | 110.9 | 110.2 | 122.6 | 106.2 | 144.1 | 92.4 | 115.6 |
| LOC440354 | 145 | 169.4 | 112.4 | 123.7 | 126.7 | 108 | 127.5 | 157 |
| LOC44039E | 140.7 | 179.8 | 111.9 | 100.6 | 94.9 | 103.8 | 129.5 | 156.2 |
| LOC44050E | 90.7 | 89.5 | 97.2 | 100.1 | 87.9 | 84.8 | 84.9 | 95.2 |
| LOC44050E | 78.3 | 86.7 | 85.8 | 81.6 | 84.6 | 85.7 | 83.4 | 82.4 |
| LOC44055E | 76.9 | 73.6 | 93 | 92 | 90.3 | 88.5 | 75.8 | 88.3 |
| LOC44057C | 88.3 | 92.9 | 93.9 | 78.4 | 86.1 | 89.5 | 87 | 81.9 |

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|-----------|-------|--------|--------|--------|--------|--------|--------|--------|
| LOC44068E | 223.1 | 226.9 | 140.4 | 207.1 | 159.1 | 161.7 | 198.9 | 545.1 |
| LOC44074Z | 93.4 | 104.2 | 89.5 | 92.4 | 78.2 | 78.7 | 102.9 | 95.3 |
| LOC44079E | 95 | 124.2 | 86.7 | 88.3 | 102.7 | 93 | 104.4 | 106.4 |
| LOC44083E | 88.5 | 108.1 | 96.4 | 94.5 | 87.9 | 91.1 | 91.7 | 92.8 |
| LOC44092E | 108.7 | 101.1 | 97.1 | 96.6 | 86.2 | 86 | 92.5 | 101.4 |
| LOC44092E | 842.8 | 881.5 | 409.3 | 420 | 297.9 | 357.7 | 848.5 | 1816.2 |
| LOC44094A | 95.3 | 109.8 | 96.2 | 93.1 | 82.3 | 83.2 | 94.8 | 105.2 |
| LOC44104E | 101.4 | 98 | 97 | 98 | 94.2 | 84.8 | 97.7 | 102.7 |
| LOC44107C | 97.5 | 134.8 | 81.7 | 76 | 69 | 76.9 | 102.9 | 138.3 |
| LOC44110E | 92.3 | 99.9 | 96.2 | 82.8 | 83 | 92.4 | 94 | 93.9 |
| LOC44112C | 83.9 | 109.7 | 99.8 | 83.5 | 79 | 86 | 95.1 | 114.9 |
| LOC44115C | 199 | 260.5 | 175.4 | 147.8 | 161.3 | 151.3 | 192.7 | 208.6 |
| LOC441161 | 83.8 | 90.9 | 95.4 | 85.7 | 83.9 | 89.1 | 74.3 | 89.8 |
| LOC44116E | 109.8 | 126.2 | 117.2 | 112.5 | 105.4 | 117.1 | 107.8 | 102.6 |
| LOC441177 | 81.6 | 83.6 | 87.1 | 84 | 77.6 | 86 | 90.6 | 78.2 |
| LOC44117E | 98 | 96.2 | 95 | 96.2 | 88.2 | 83.1 | 92.4 | 104.9 |
| LOC44120E | 103.7 | 122.4 | 91.7 | 96.9 | 85.8 | 88.7 | 103.6 | 110.1 |
| LOC44123E | 81.3 | 88 | 96.8 | 75.2 | 84.4 | 89.7 | 70.9 | 86.6 |
| LOC44124Z | 293.3 | 388.2 | 238.8 | 232.1 | 179.7 | 287.2 | 251.2 | 500.1 |
| LOC44124A | 205.6 | 266.4 | 115.2 | 98.9 | 105.1 | 133.3 | 167.6 | 264.1 |
| LOC441251 | 96.9 | 111.6 | 95.1 | 80.7 | 80.7 | 86.4 | 112.4 | 116.6 |
| LOC441257 | 82 | 80.7 | 89.9 | 85.4 | 78.4 | 88.1 | 83.7 | 81.6 |
| LOC44126E | 136.7 | 155.1 | 114.2 | 118.3 | 135.6 | 119.5 | 132.4 | 147.7 |
| LOC44128Z | 89.5 | 102.7 | 99.6 | 87.3 | 90.1 | 91.9 | 92.4 | 105.8 |
| LOC44129A | 97.8 | 127.9 | 113.7 | 116.8 | 107.2 | 125.4 | 104.9 | 126.2 |
| LOC44137E | 97.5 | 94.3 | 88.1 | 83 | 92.4 | 89.4 | 89.9 | 98 |
| LOC44142E | 81.4 | 88.5 | 88.9 | 80 | 81.8 | 88.8 | 82.4 | 93.4 |
| LOC44147E | 83.7 | 95.3 | 87.9 | 91.4 | 82.1 | 92.9 | 84.7 | 94.3 |
| LOC441581 | 88.6 | 94 | 95.6 | 96.7 | 80.1 | 94 | 81 | 81.4 |
| LOC441581 | 91.7 | 103.2 | 93.7 | 81.8 | 81.3 | 95.2 | 94.7 | 100.7 |
| LOC441601 | 83.3 | 88.5 | 92.4 | 84.1 | 78.9 | 82.3 | 81 | 89.8 |
| LOC44173A | 83.4 | 85.9 | 91.3 | 92.7 | 95.4 | 83.4 | 82.2 | 93 |
| LOC44174E | 242.7 | 261.4 | 156.3 | 155.2 | 130.4 | 152.3 | 219.1 | 255.6 |
| LOC441931 | 78.5 | 101.6 | 101.1 | 101.4 | 87.3 | 96.5 | 86.1 | 92.4 |
| LOC44195E | 84.7 | 89.2 | 91.8 | 84.4 | 88.3 | 86.5 | 84.4 | 91.7 |
| LOC44195E | 86.7 | 106.3 | 96.5 | 93.4 | 96.6 | 96.2 | 87.8 | 84.4 |
| LOC44221E | 128.9 | 161.7 | 116.3 | 98.5 | 106.2 | 115.1 | 129 | 138.8 |
| LOC44224E | 94.6 | 105.3 | 113.1 | 101.5 | 97.6 | 101.5 | 91.6 | 101.3 |
| LOC44242A | 80 | 79.4 | 87.6 | 83.5 | 77.8 | 86.1 | 83 | 81.1 |
| LOC44242E | 115.5 | 140.4 | 92.7 | 86.9 | 79 | 86.4 | 101.6 | 132.3 |
| LOC44257E | 1518 | 1546.4 | 1026.7 | 1394.4 | 1385.8 | 1318.1 | 1228.9 | 1723.1 |
| LOC44258Z | 168.2 | 151 | 95.7 | 96.3 | 89.9 | 96.1 | 122.4 | 189.2 |
| LOC44271E | 93.9 | 105.7 | 97.9 | 88.2 | 80.2 | 91.1 | 90.2 | 95 |
| LOC49230E | 81.2 | 95.8 | 86.7 | 85.3 | 79.2 | 87 | 84.1 | 90.1 |
| LOC492311 | 214.5 | 299.2 | 151.6 | 221.6 | 208.2 | 272.1 | 210 | 302.9 |
| LOC49382E | 103.3 | 144.6 | 94.9 | 93.7 | 83.2 | 81.8 | 104.9 | 121.1 |
| LOC49385E | 480.1 | 586 | 231.8 | 193.2 | 181.2 | 241.8 | 447.5 | 793.7 |
| LOC49386C | 86.8 | 86.7 | 95.9 | 84.5 | 79.4 | 87.9 | 80.9 | 99.1 |
| LOC49386E | 102.2 | 107.3 | 100.8 | 103.9 | 86.7 | 91.4 | 90.1 | 110.6 |
| LOC49719C | 132.7 | 140.6 | 100.3 | 96.5 | 96 | 105.5 | 126.2 | 120.4 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| LOC497661 | 153.5 | 180.1 | 103.3 | 113.4 | 97.5 | 115.2 | 147.9 | 242 |
| LOC51035 | 3104.1 | 3848.2 | 1976.8 | 1597.2 | 1396.8 | 1666.7 | 3140 | 3992 |
| LOC51057 | 102.3 | 107.3 | 91.7 | 94.1 | 83.6 | 94.4 | 98.1 | 108.7 |
| LOC51057 | 104.4 | 131.8 | 108.8 | 82.4 | 83.6 | 82.3 | 104.3 | 144 |
| LOC51136 | 744.6 | 941.2 | 356.4 | 377.6 | 352.1 | 557.5 | 465.7 | 757 |
| LOC51149 | 192.8 | 239.1 | 119.9 | 117.2 | 105.9 | 127.7 | 176.7 | 194.3 |
| LOC51149 | 79 | 101.6 | 92.1 | 84 | 76.3 | 78 | 83.8 | 95.8 |
| LOC51233 | 85.7 | 92.3 | 89.1 | 85 | 83.8 | 85.2 | 82.8 | 90.6 |
| LOC51252 | 107.4 | 113.4 | 94.9 | 92.2 | 87.8 | 99.9 | 118.8 | 111.6 |
| LOC51255 | 2666.1 | 3372 | 1619.7 | 1848.3 | 1552.8 | 2290.9 | 2871.6 | 4210.8 |
| LOC51333 | 119 | 131.1 | 96.5 | 97.3 | 97.3 | 100.1 | 119.1 | 132.4 |
| LOC51334 | 167.2 | 199.8 | 137.1 | 127.3 | 118.2 | 131.7 | 161.2 | 187.2 |
| LOC54103 | 153.4 | 162.5 | 101.5 | 97.5 | 95.3 | 96.8 | 139.2 | 209.2 |
| LOC541469 | 119.7 | 125.7 | 87.4 | 87.7 | 88.7 | 89.9 | 110.5 | 146.2 |
| LOC541473 | 85.6 | 101.6 | 81.6 | 88.9 | 89.5 | 92.4 | 101.9 | 100.1 |
| LOC550631 | 91.7 | 91.6 | 104.7 | 99.1 | 86.1 | 90 | 87.2 | 95.3 |
| LOC552891 | 74.5 | 85.1 | 107.5 | 90 | 100.7 | 86.3 | 68.9 | 83.5 |
| LOC554226 | 84.2 | 96.7 | 85.5 | 76.7 | 73.6 | 83.4 | 93.1 | 88.8 |
| LOC554235 | 89.7 | 103 | 98.2 | 94.7 | 85.4 | 90.1 | 87.1 | 94.9 |
| LOC554251 | 99.4 | 101.8 | 87.3 | 86.7 | 78.5 | 82.5 | 86.1 | 94.4 |
| LOC55565 | 234.4 | 273.8 | 197.5 | 161.1 | 166.5 | 186.5 | 205.5 | 175.5 |
| LOC55908 | 146 | 184.4 | 109.9 | 97.6 | 101.8 | 108.2 | 145.1 | 148.7 |
| LOC56901 | 122.2 | 151.1 | 123.1 | 100.4 | 90.8 | 101.9 | 129.2 | 180.2 |
| LOC56902 | 1069.5 | 1202.6 | 397.6 | 345.2 | 209.4 | 444.8 | 802.4 | 1176.4 |
| LOC56964 | 81.9 | 91.4 | 88.2 | 86.8 | 80.3 | 88.2 | 85.1 | 88.9 |
| LOC57149 | 980.1 | 1251.2 | 610.2 | 672.1 | 482.5 | 812.7 | 905.6 | 1111.6 |
| LOC57228 | 88.9 | 93.7 | 95.8 | 87.6 | 93.7 | 99.7 | 85.2 | 101 |
| LOC57228 | 121.4 | 137.7 | 111 | 124.8 | 114.1 | 144.5 | 117.6 | 136.5 |
| LOC57228 | 95.8 | 97.9 | 80.2 | 83.1 | 90 | 86.2 | 96.4 | 101.5 |
| LOC57228 | 93.2 | 89.9 | 104.1 | 98.2 | 96.6 | 95.2 | 86.9 | 89.8 |
| LOC594834 | 72.1 | 82 | 84.8 | 76.5 | 69.6 | 79.2 | 72 | 79.4 |
| LOC594834 | 101.3 | 114.3 | 83.7 | 90.6 | 74.7 | 80.1 | 102.9 | 116.2 |
| LOC594834 | 87.6 | 93.7 | 85.8 | 70 | 79.2 | 75.6 | 90.4 | 95.5 |
| LOC595101 | 131.5 | 153.5 | 105.9 | 102.2 | 96.9 | 105.4 | 104.9 | 141.2 |
| LOC606495 | 159.7 | 194.1 | 109.9 | 101.7 | 109.4 | 129.2 | 140.1 | 166.9 |
| LOC606724 | 1514.2 | 1951 | 1033.4 | 630.2 | 520.2 | 823.7 | 1228.4 | 1786.1 |
| LOC613037 | 728.5 | 917.6 | 464.7 | 685.8 | 706.1 | 1195.1 | 741.2 | 1009.9 |
| LOC613212 | 81.1 | 89.3 | 93.1 | 98 | 89.4 | 86.3 | 80.4 | 75.7 |
| LOC619207 | 91.9 | 99.9 | 80.8 | 85.9 | 85.1 | 82.3 | 95.7 | 94.9 |
| LOC619208 | 102.9 | 105.8 | 86.4 | 84.4 | 86.3 | 85 | 98.5 | 103.4 |
| LOC63920 | 232.7 | 247.5 | 204.4 | 196.4 | 156.9 | 216.3 | 179.2 | 228.9 |
| LOC63928 | 110.1 | 122 | 94.4 | 78.1 | 78.8 | 85.6 | 100.6 | 111.7 |
| LOC641522 | 109.5 | 132.7 | 112.8 | 104.2 | 94.8 | 102.4 | 103 | 120.7 |
| LOC641847 | 83 | 89 | 91.7 | 87.3 | 84.3 | 94.7 | 87.2 | 86.2 |
| LOC641949 | 134.2 | 147.2 | 113.4 | 113.3 | 101.6 | 121.8 | 107.1 | 126.2 |
| LOC642090 | 411.6 | 566.7 | 352.7 | 546 | 438.1 | 728.4 | 429.8 | 777.2 |
| LOC642181 | 97.6 | 99 | 86.8 | 79.7 | 82.8 | 82.1 | 80.3 | 93.6 |
| LOC642201 | 126.9 | 133.1 | 85.8 | 85.9 | 80.1 | 86.2 | 112.3 | 118 |
| LOC642265 | 73.4 | 80.2 | 88.9 | 79.7 | 82 | 81.1 | 74.6 | 86.9 |
| LOC642293 | 72.4 | 76.6 | 81 | 76.6 | 86.7 | 82.8 | 68.7 | 78.1 |

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|-----------|---------|---------|---------|---------|---------|--------|---------|---------|
| LOC642316 | 92.1 | 92.6 | 92.6 | 98.3 | 91.4 | 88.8 | 102.3 | 88.2 |
| LOC642323 | 373.8 | 476.3 | 197.3 | 240.7 | 179.8 | 210.2 | 216.4 | 309.7 |
| LOC642782 | 100.5 | 102.3 | 94.2 | 88.6 | 87.6 | 83.5 | 87.7 | 93.6 |
| LOC642944 | 89.7 | 96.8 | 90.2 | 87.8 | 93.2 | 100.5 | 96.4 | 82.7 |
| LOC642947 | 8623.3 | 9226 | 3949.4 | 7518.6 | 7689.1 | 5385.6 | 7399.5 | 9082.8 |
| LOC642968 | 131 | 145.8 | 93.6 | 86.4 | 88.4 | 90.5 | 132.9 | 153.6 |
| LOC642980 | 97 | 122.8 | 92 | 97.5 | 83.9 | 102.9 | 92.4 | 114.7 |
| LOC642980 | 95.8 | 112.6 | 95.6 | 93.3 | 82.2 | 97.6 | 100.4 | 117.1 |
| LOC643057 | 28616.1 | 26888.2 | 36978.8 | 37493.4 | 30824.1 | 35396 | 28119.6 | 28790.7 |
| LOC643165 | 85.6 | 109.6 | 90.8 | 96 | 81.9 | 90.4 | 101 | 99.5 |
| LOC643196 | 91 | 105.8 | 99.3 | 90.1 | 82.6 | 80.3 | 93.8 | 102.1 |
| LOC643226 | 79.4 | 85.3 | 103.5 | 103.8 | 93.2 | 108.1 | 77.4 | 76.3 |
| LOC643226 | 73.9 | 81.2 | 87 | 77 | 78.6 | 73 | 81 | 77.2 |
| LOC643253 | 90.7 | 86.8 | 94.7 | 95.6 | 85.9 | 91.9 | 87.5 | 95.3 |
| LOC643298 | 114.6 | 128.5 | 107.6 | 95.7 | 98.9 | 107.8 | 108.8 | 137.8 |
| LOC643366 | 103.6 | 114 | 95.9 | 95.6 | 88.5 | 102.9 | 99.2 | 114 |
| LOC643394 | 77.5 | 89.4 | 84.9 | 86.5 | 93.3 | 88.1 | 78 | 96.1 |
| LOC643414 | 87.7 | 91.3 | 88.4 | 86.5 | 81.3 | 79.3 | 83.1 | 85.7 |
| LOC643425 | 78.9 | 93.5 | 87 | 101.1 | 85.7 | 88.3 | 88.2 | 82.7 |
| LOC643516 | 8167.1 | 10078.8 | 3182.6 | 2481.6 | 1884.4 | 2537.1 | 7227 | 8481.1 |
| LOC643542 | 83.8 | 84.1 | 92.8 | 83.3 | 75.8 | 76.1 | 88.2 | 101.1 |
| LOC643591 | 303 | 348.1 | 137.8 | 180.6 | 167.6 | 145.1 | 194 | 290.7 |
| LOC643668 | 7361.4 | 9690.1 | 3496 | 3218.5 | 2571.7 | 3696.9 | 6829 | 8895.3 |
| LOC643736 | 94.7 | 106.7 | 104.4 | 98.6 | 88.4 | 92.4 | 105.2 | 108.1 |
| LOC643812 | 90.6 | 95.3 | 107.5 | 100.4 | 99.8 | 99.7 | 89.4 | 97.6 |
| LOC643842 | 107.2 | 133.1 | 103.5 | 93.9 | 91.7 | 94.3 | 104.3 | 118.6 |
| LOC643853 | 126.6 | 192.9 | 100 | 96.7 | 93.7 | 95.2 | 128.6 | 141 |
| LOC643853 | 124.6 | 163.5 | 149.2 | 149.5 | 126.2 | 162.8 | 122.1 | 184.3 |
| LOC643866 | 96 | 105.9 | 91 | 82.3 | 82.3 | 88.2 | 99.3 | 103.7 |
| LOC643905 | 128.9 | 130.1 | 99.7 | 80.8 | 81.2 | 105.3 | 103.1 | 107.7 |
| LOC643923 | 105.5 | 108.3 | 102.6 | 97.5 | 91.2 | 90.9 | 106.7 | 111 |
| LOC643923 | 95.3 | 94.3 | 81.1 | 91.2 | 87.5 | 84.8 | 93.9 | 96.7 |
| LOC643940 | 2594.7 | 3105.4 | 1315.6 | 1180.8 | 722.5 | 1241.2 | 2336.7 | 3437 |
| LOC643995 | 2559.9 | 3588.1 | 658.6 | 355.5 | 244.9 | 528.2 | 2104.4 | 2558.5 |
| LOC644076 | 76 | 84.4 | 83.7 | 75.2 | 82.2 | 87.5 | 78.7 | 82.4 |
| LOC644096 | 641.8 | 825.9 | 483.3 | 339.3 | 282.1 | 396.6 | 614.2 | 961.4 |
| LOC644168 | 114.4 | 133.4 | 111.2 | 92.3 | 95.9 | 97.3 | 120.2 | 113.2 |
| LOC644376 | 91.2 | 94.2 | 97.6 | 95.4 | 90 | 99.2 | 91.1 | 95.6 |
| LOC644398 | 130.5 | 152.4 | 100.8 | 94.5 | 80.4 | 93.9 | 136.4 | 158.6 |
| LOC644407 | 98.6 | 112.1 | 103.9 | 96.9 | 88.6 | 92.5 | 98.3 | 106 |
| LOC644529 | 93.2 | 103.7 | 106.9 | 99.7 | 87.6 | 102.1 | 90.5 | 91.7 |
| LOC644613 | 90.6 | 105.3 | 92.6 | 87.2 | 76.7 | 84.8 | 97.7 | 107.8 |
| LOC644615 | 562.3 | 832.6 | 354.9 | 252.8 | 234.6 | 319.1 | 521.5 | 717.3 |
| LOC644685 | 128.9 | 166.1 | 95.4 | 85.5 | 84 | 85.1 | 107.6 | 174.2 |
| LOC644784 | 101 | 108.8 | 91.4 | 86 | 82.4 | 86.1 | 99.5 | 101.3 |
| LOC644792 | 98.7 | 104.3 | 92.6 | 85.8 | 87.9 | 86.4 | 103.5 | 112.5 |
| LOC644890 | 113.5 | 123.8 | 105.9 | 95.2 | 99.7 | 95.2 | 112.5 | 131 |
| LOC644943 | 87.4 | 95.4 | 92.5 | 98.7 | 84.1 | 91.5 | 96.5 | 91.2 |
| LOC644997 | 102.3 | 121.3 | 96.1 | 93.9 | 92.5 | 86.6 | 105.8 | 104.7 |
| LOC644997 | 165.6 | 203.3 | 113.2 | 102.3 | 96.1 | 97.9 | 152.8 | 160.1 |

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|-----------|---------|---------|---------|---------|---------|--------|--------|---------|
| LOC64503E | 90.1 | 112.8 | 101.9 | 87.9 | 89.9 | 94.1 | 98.5 | 97.7 |
| LOC645437 | 95.9 | 96 | 95.9 | 85.9 | 78.8 | 88.9 | 94.9 | 112.7 |
| LOC645562 | 129.3 | 149.7 | 106.9 | 97.4 | 77.5 | 85.3 | 98.8 | 120.1 |
| LOC64584E | 83.3 | 89.1 | 90.1 | 81.4 | 85 | 87.7 | 77.1 | 90.1 |
| LOC645922 | 70.9 | 82.2 | 96.6 | 90.1 | 75.1 | 81.1 | 80.4 | 82 |
| LOC645974 | 86.9 | 89.8 | 98.1 | 87.8 | 84.7 | 96.4 | 81.2 | 90.2 |
| LOC645974 | 110.3 | 125.4 | 96.3 | 96.3 | 82 | 82.8 | 97.9 | 130.2 |
| LOC646182 | 94.6 | 94.1 | 94.7 | 87.6 | 86.4 | 99.6 | 86 | 96.6 |
| LOC64620C | 21347.9 | 25021.7 | 11621.4 | 13387.3 | 10084.8 | 13926 | 20719 | 24838.8 |
| LOC64648C | 75.6 | 86.2 | 90.7 | 91.8 | 79 | 85.2 | 75.4 | 83 |
| LOC64660C | 77.7 | 81.2 | 87.6 | 100.2 | 90.6 | 88.2 | 73.4 | 82.6 |
| LOC646962 | 77.9 | 90.4 | 88.1 | 77.4 | 78.4 | 83.7 | 80.1 | 101.3 |
| LOC64704E | 101 | 142.7 | 94.3 | 83.8 | 89.5 | 81.8 | 115.7 | 127.8 |
| LOC647141 | 88 | 105.1 | 90 | 86.3 | 85.8 | 79.2 | 85.7 | 95.6 |
| LOC64764E | 80.1 | 86.2 | 100.2 | 87.1 | 88 | 86.3 | 82 | 81.6 |
| LOC64764E | 76.2 | 80.8 | 100.2 | 89.3 | 94.4 | 93.9 | 75.8 | 81 |
| LOC64776C | 154.4 | 173.7 | 115.4 | 108.6 | 94.9 | 115 | 143.3 | 156.8 |
| LOC647881 | 89.3 | 92 | 78.4 | 77.2 | 66.5 | 80.1 | 85.5 | 95.4 |
| LOC64814E | 137.9 | 148.3 | 89.9 | 80.9 | 80.5 | 94.4 | 116.9 | 150.2 |
| LOC64829E | 837.1 | 1171 | 752.4 | 884.9 | 687.9 | 1230.1 | 788.8 | 1301.8 |
| LOC64830E | 93.4 | 102.9 | 84 | 89.4 | 82.8 | 90.3 | 93.5 | 100.7 |
| LOC648367 | 82.4 | 107.8 | 98.5 | 83.8 | 86.4 | 85.5 | 102.4 | 99.5 |
| LOC648832 | 110.1 | 126.4 | 111.6 | 104.2 | 87.5 | 96.8 | 106.9 | 122.6 |
| LOC64901E | 107.2 | 111.7 | 93.8 | 103 | 89.9 | 101.3 | 108.2 | 108.7 |
| LOC64915E | 76.2 | 86.6 | 91.7 | 79.7 | 82.8 | 83.4 | 82.1 | 80.8 |
| LOC64915E | 150.5 | 179.4 | 111.5 | 95.2 | 76.2 | 90 | 143.4 | 184.2 |
| LOC64923C | 99 | 97.1 | 89.3 | 82.3 | 80.6 | 83.2 | 95.9 | 97.6 |
| LOC649377 | 122.9 | 151.8 | 91.4 | 80.7 | 78.9 | 89.6 | 119.6 | 143.6 |
| LOC649387 | 122.6 | 147.3 | 83.4 | 88.2 | 77.4 | 86.3 | 113.3 | 139.3 |
| LOC649387 | 78.6 | 83 | 94.4 | 80.6 | 81.4 | 81.4 | 80 | 83.4 |
| LOC649431 | 78.3 | 84 | 97.2 | 95.6 | 92.9 | 101.8 | 80.8 | 85.1 |
| LOC64944E | 88 | 88.7 | 94.9 | 89.3 | 68.7 | 80.7 | 85.3 | 93.3 |
| LOC64951E | 98.3 | 120.8 | 94.1 | 102 | 104.1 | 97.9 | 96.8 | 111.9 |
| LOC64955E | 101.8 | 118.2 | 95.6 | 79.8 | 77.1 | 91.8 | 96.6 | 118.8 |
| LOC64958E | 85 | 96.8 | 83.8 | 67.7 | 69.2 | 84.3 | 99 | 101.6 |
| LOC64970E | 303.6 | 366.5 | 147.8 | 125.4 | 122.5 | 124.6 | 267.2 | 370.9 |
| LOC64985E | 2374.8 | 2978.8 | 1544.2 | 1004.3 | 864.1 | 1000.2 | 1949.3 | 2758.3 |
| LOC64994E | 2434.1 | 3181.1 | 1206 | 984.6 | 808.9 | 1072.9 | 2278.3 | 5106.1 |
| LOC65000C | 78.2 | 88.4 | 95 | 82.9 | 81.5 | 92.1 | 77.4 | 88.6 |
| LOC65004C | 142 | 169.4 | 100.9 | 98.8 | 99.2 | 101.1 | 140 | 164.1 |
| LOC650137 | 90.2 | 99.2 | 92.7 | 90.7 | 81.3 | 90.5 | 92.2 | 97 |
| LOC650137 | 71.3 | 85.8 | 88.4 | 84.7 | 76.9 | 89.4 | 76.1 | 77.7 |
| LOC65023E | 101.5 | 118 | 100.2 | 96.1 | 94 | 106.1 | 95.5 | 99.5 |
| LOC650254 | 95 | 95 | 94.3 | 81.4 | 78 | 84.2 | 86.9 | 102.4 |
| LOC65029E | 81.2 | 89.1 | 96.7 | 101.2 | 84.1 | 90 | 75.2 | 77 |
| LOC65058E | 127 | 154.5 | 100.8 | 93 | 90.2 | 97.6 | 119.9 | 131.3 |
| LOC65064E | 102.9 | 113.1 | 97.6 | 80.2 | 78.1 | 84.8 | 85.7 | 117.4 |
| LOC65069E | 80.8 | 82.5 | 93.7 | 93.1 | 89.9 | 87.9 | 74.3 | 77.5 |
| LOC65079E | 138.1 | 153.2 | 89.1 | 97.2 | 77.5 | 79.8 | 140.5 | 155.9 |
| LOC65107E | 249.4 | 287.2 | 161.4 | 120.9 | 104.6 | 155.4 | 209.6 | 261 |

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|-----------|---------|---------|--------|--------|--------|--------|---------|---------|
| LOC651137 | 85.3 | 97.3 | 82.6 | 83 | 81.1 | 85.2 | 78.2 | 88.6 |
| LOC651321 | 107.3 | 117.8 | 114.9 | 110.1 | 107.9 | 107.1 | 95.9 | 107.6 |
| LOC651423 | 325.9 | 446.4 | 192.8 | 194.5 | 161.9 | 171.7 | 255.5 | 280.5 |
| LOC651503 | 93.2 | 104 | 112 | 100.9 | 103.3 | 103.4 | 89.1 | 99.6 |
| LOC652020 | 85.6 | 86.9 | 97 | 85.5 | 89.1 | 92.7 | 89.8 | 86.7 |
| LOC652236 | 97.2 | 108.6 | 112.4 | 90.6 | 89.1 | 91.9 | 100.3 | 117.9 |
| LOC652461 | 104.5 | 114.9 | 108.6 | 88.1 | 81.9 | 90.6 | 104.5 | 122.9 |
| LOC652480 | 77.4 | 71.5 | 96.6 | 90.5 | 84 | 87.4 | 76.4 | 86.3 |
| LOC652705 | 82.7 | 110.7 | 80.6 | 85 | 68.5 | 79.3 | 92.5 | 101.5 |
| LOC652744 | 91.2 | 103.1 | 98.6 | 77.3 | 77.6 | 76.2 | 91.4 | 96.9 |
| LOC652870 | 91.9 | 97.9 | 99.6 | 96.2 | 93.6 | 90.9 | 97.6 | 88.3 |
| LOC652888 | 89.6 | 98.6 | 91.5 | 88.5 | 87.5 | 86.8 | 88.3 | 85.7 |
| LOC652924 | 329.4 | 422.2 | 192.6 | 260.9 | 198.4 | 235.9 | 280.8 | 366.4 |
| LOC652968 | 165.6 | 180.8 | 133.1 | 114.6 | 104.8 | 117.3 | 153.9 | 199.3 |
| LOC653033 | 116.5 | 124.3 | 103 | 89.7 | 94.6 | 94.8 | 104.8 | 114.7 |
| LOC653056 | 93.1 | 95.5 | 96.7 | 86.8 | 88 | 96.5 | 90.1 | 99.7 |
| LOC653062 | 89.2 | 95.9 | 89.4 | 88.2 | 74.2 | 90.4 | 88.6 | 97.6 |
| LOC653084 | 138.3 | 154.6 | 113.3 | 90 | 86.4 | 90.3 | 117.1 | 123.3 |
| LOC653098 | 142 | 165.1 | 127.9 | 109.7 | 98.3 | 112 | 141.7 | 160.6 |
| LOC653101 | 119.8 | 149.1 | 96.7 | 91.4 | 87.6 | 96.4 | 120.8 | 180 |
| LOC653122 | 86.4 | 78.6 | 94.9 | 84.5 | 90.1 | 98.2 | 79.1 | 85.9 |
| LOC653131 | 100.1 | 112.5 | 88.3 | 85.7 | 86.3 | 96.8 | 103.9 | 122.8 |
| LOC653133 | 199.9 | 247.6 | 141.9 | 221.8 | 197.4 | 143.5 | 170.2 | 219 |
| LOC653142 | 71.9 | 86.9 | 80.3 | 75.4 | 77.9 | 87.7 | 78 | 77.3 |
| LOC653150 | 144.2 | 145.3 | 99.6 | 98.1 | 89 | 90.2 | 112.5 | 169.3 |
| LOC653152 | 129.7 | 183.4 | 107.8 | 94.7 | 88 | 91.2 | 130.9 | 149.8 |
| LOC653170 | 105.7 | 117.4 | 97.4 | 84.2 | 88.2 | 93.3 | 98.6 | 124.1 |
| LOC653179 | 110.8 | 127 | 106 | 121.9 | 97 | 101.3 | 119.2 | 117.5 |
| LOC653216 | 88.8 | 95.7 | 95.4 | 96.7 | 100.5 | 95 | 87.1 | 94.4 |
| LOC653216 | 102 | 105.6 | 121.9 | 121.7 | 123.5 | 125.7 | 92.6 | 90.5 |
| LOC653216 | 72.2 | 85.6 | 100.5 | 97.3 | 93.9 | 88.2 | 77.4 | 84.5 |
| LOC653281 | 97 | 116.1 | 99.1 | 85.1 | 85.8 | 90.8 | 100.9 | 106.8 |
| LOC653282 | 166.9 | 195.3 | 115.8 | 111.8 | 107.9 | 121.4 | 150.6 | 182.9 |
| LOC653285 | 101 | 118.5 | 100.1 | 102.4 | 89.7 | 99.5 | 99.2 | 100.3 |
| LOC653314 | 12223.5 | 12792.3 | 3933.5 | 3062.2 | 2837.3 | 3051 | 11714 | 12224.5 |
| LOC653316 | 79.7 | 91.3 | 91.5 | 87.5 | 78.5 | 80.8 | 76.5 | 92.2 |
| LOC653319 | 108.8 | 125.3 | 115.4 | 97.6 | 90.3 | 94.3 | 96.3 | 121.2 |
| LOC653328 | 9670.5 | 10994.4 | 4627.5 | 3491.7 | 2699.9 | 3648.9 | 10710.3 | 13358.1 |
| LOC653375 | 256.9 | 382.2 | 236.1 | 189.3 | 185.5 | 248.4 | 241.7 | 354.6 |
| LOC653386 | 113.1 | 122.2 | 102.1 | 88.8 | 88.1 | 99 | 108.7 | 149.5 |
| LOC653417 | 137.3 | 148.7 | 114 | 96.9 | 87.5 | 95.7 | 119.2 | 136.2 |
| LOC653419 | 95 | 109.6 | 95.6 | 92.5 | 90 | 80.9 | 99.8 | 128 |
| LOC653423 | 120.9 | 130.3 | 96.9 | 82.3 | 90 | 101.4 | 116.6 | 134.6 |
| LOC653466 | 98.7 | 102.8 | 86.9 | 85.9 | 84.1 | 95.5 | 98.5 | 101.8 |
| LOC653484 | 95.8 | 97.5 | 91.7 | 91.1 | 88 | 102.2 | 106.9 | 104.4 |
| LOC653490 | 101.3 | 111.8 | 107.3 | 108.6 | 93 | 107.2 | 98.3 | 92.3 |
| LOC653499 | 92.5 | 93 | 101.4 | 93.5 | 89 | 83.4 | 100.3 | 103.1 |
| LOC653502 | 97.3 | 117.3 | 83.9 | 81.7 | 83.8 | 85.6 | 94.4 | 111.5 |
| LOC653517 | 87.7 | 81.9 | 94.1 | 88.6 | 81.6 | 87.6 | 89.9 | 84.2 |
| LOC653542 | 724.1 | 438.2 | 215.7 | 227.7 | 178.3 | 270.8 | 239.8 | 530.4 |

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| LOC65354E | 92.9 | 97.2 | 83.9 | 92.7 | 83.2 | 84.9 | 94 | 88.7 |
| LOC65355E | 140.8 | 125.3 | 101.9 | 101.8 | 96.6 | 102.2 | 108.1 | 135.4 |
| LOC65356E | 2081.7 | 2710.2 | 577.5 | 540.8 | 413 | 559.2 | 2196.3 | 2983.7 |
| LOC65356E | 84.6 | 95.2 | 81.3 | 82.8 | 76.2 | 79.2 | 91.9 | 98.2 |
| LOC65360C | 83.5 | 92.1 | 88.6 | 94 | 85 | 88.5 | 82.4 | 76.3 |
| LOC653602 | 103.2 | 122.7 | 104.6 | 96.6 | 92.7 | 91.7 | 110.4 | 106.5 |
| LOC65361E | 70.6 | 81.5 | 80.8 | 86.7 | 77.5 | 75.5 | 82.5 | 78.4 |
| LOC653614 | 87.2 | 101.5 | 95 | 101.1 | 88.8 | 85.6 | 89.1 | 99 |
| LOC65362C | 101.6 | 121.6 | 85.4 | 86.8 | 79.7 | 90 | 94.3 | 104.2 |
| LOC65362E | 91.5 | 101.6 | 106.6 | 97.9 | 91.8 | 92.6 | 81.9 | 91.2 |
| LOC65362E | 166 | 201.3 | 148.1 | 183.1 | 142.3 | 273.6 | 219.6 | 410 |
| LOC65365E | 96.3 | 137.4 | 90.2 | 86.9 | 79.4 | 79.8 | 104.9 | 127.4 |
| LOC65368E | 71.5 | 91.3 | 88 | 87.3 | 83.7 | 78.7 | 79.2 | 89 |
| LOC65368E | 76.5 | 82.4 | 89.5 | 85.5 | 90.2 | 84 | 73.5 | 80.1 |
| LOC65369E | 105.3 | 134.9 | 109.8 | 95.2 | 97 | 108.4 | 115.6 | 131.8 |
| LOC653697 | 83.3 | 93.1 | 88.9 | 89.2 | 90 | 87.9 | 85.4 | 91.6 |
| LOC65370E | 95.6 | 109.6 | 101.4 | 94.3 | 89.4 | 98.7 | 99.1 | 111.6 |
| LOC65370E | 183.5 | 209 | 144.8 | 114.8 | 105.7 | 125.1 | 177.4 | 217.2 |
| LOC65370E | 258.8 | 284.7 | 127.2 | 114.6 | 114.8 | 134.9 | 237.7 | 446.3 |
| LOC65371E | 84.5 | 97 | 73.1 | 76.9 | 76 | 74 | 92.8 | 96.3 |
| LOC65372E | 106.8 | 119.5 | 98.7 | 98.6 | 83.7 | 82.1 | 92.4 | 117.5 |
| LOC653742 | 97.4 | 110.7 | 110.1 | 103.5 | 95.7 | 99.7 | 102.8 | 105.6 |
| LOC653744 | 158 | 207.8 | 103 | 93.8 | 80.6 | 78.1 | 144.7 | 162 |
| LOC65374E | 103 | 127.5 | 98.7 | 104 | 105.3 | 98.8 | 95.3 | 106.7 |
| LOC65374E | 92.5 | 106.4 | 88.2 | 81.6 | 79.8 | 88.8 | 79.8 | 97.4 |
| LOC65374E | 80 | 92.6 | 85.9 | 75.2 | 79.9 | 76.8 | 82.8 | 90.8 |
| LOC653757 | 87.6 | 109 | 102.5 | 85.7 | 90.7 | 97.9 | 93.8 | 102.8 |
| LOC65375E | 82.8 | 83.6 | 82 | 78.4 | 77.1 | 83.4 | 84 | 89.8 |
| LOC653762 | 103 | 97.3 | 102.9 | 97.1 | 82.4 | 98.2 | 98.3 | 105.9 |
| LOC653767 | 86.4 | 95.7 | 104.5 | 94.2 | 85.3 | 97.9 | 93.5 | 91.9 |
| LOC653771 | 80.5 | 84.1 | 86.1 | 85.9 | 85.2 | 82.3 | 79.2 | 91.7 |
| LOC653792 | 79.1 | 86 | 94.1 | 79.7 | 93.2 | 85.8 | 79.3 | 82.6 |
| LOC65379E | 86.2 | 89.7 | 86.6 | 89.1 | 75.9 | 79.5 | 84.7 | 95.5 |
| LOC653797 | 92.6 | 111.3 | 92.5 | 87.4 | 86.8 | 88.8 | 94.7 | 95.1 |
| LOC65380E | 185.5 | 210.6 | 126.8 | 137 | 117 | 114.8 | 125.9 | 140 |
| LOC65381E | 79.9 | 90.6 | 79.5 | 80.9 | 86 | 81.5 | 79.1 | 90.3 |
| LOC653814 | 70.5 | 85.2 | 85.1 | 85.1 | 72.1 | 81.3 | 68.4 | 76 |
| LOC653827 | 72.7 | 89.5 | 85.9 | 76.9 | 88.9 | 82.1 | 70.3 | 83.2 |
| LOC65386E | 72.1 | 95.3 | 96.3 | 91 | 93.6 | 97.9 | 86.7 | 93.8 |
| LOC65390E | 109 | 112.4 | 96.6 | 76.6 | 80.6 | 84.9 | 109.3 | 118.4 |
| LOC65395C | 129 | 151.5 | 111.3 | 200.4 | 191.8 | 194.1 | 120.5 | 134.4 |
| LOC65398C | 78.1 | 73.5 | 82.4 | 76.9 | 78.3 | 79.5 | 75.8 | 76.8 |
| LOC65398C | 91.1 | 106.2 | 100.5 | 87.5 | 91 | 91.5 | 100.3 | 103.8 |
| LOC654017 | 308.5 | 339.5 | 218.4 | 242.9 | 202.3 | 305.9 | 264.1 | 488.3 |
| LOC654052 | 109.9 | 123 | 102.8 | 108.9 | 108.6 | 103.8 | 124.6 | 139.4 |
| LOC654084 | 93.9 | 112.8 | 93.4 | 109.8 | 92.7 | 116.8 | 95.6 | 102.8 |
| LOC65411E | 83.2 | 91.5 | 95.9 | 85.2 | 82.7 | 101.8 | 76.6 | 92.4 |
| LOC65412E | 160.1 | 176.5 | 143.8 | 138.4 | 133.1 | 143.7 | 148.9 | 161.3 |
| LOC65412E | 87.7 | 95.6 | 100 | 103 | 96.5 | 96.5 | 92.8 | 92 |
| LOC65412E | 88 | 110.9 | 99.3 | 99.3 | 92.2 | 96.8 | 90.8 | 88.5 |

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|-----------|---------|---------|---------|--------|---------|---------|---------|---------|
| LOC65414E | 104.8 | 107.5 | 109.8 | 98.9 | 94.5 | 93.1 | 93.1 | 103.9 |
| LOC654151 | 88.5 | 91.5 | 91.3 | 92.9 | 91.9 | 91.3 | 91.7 | 102.4 |
| LOC654182 | 93.1 | 98.6 | 88.1 | 77.9 | 79.9 | 78.5 | 88 | 97 |
| LOC65422E | 135.4 | 141.7 | 96.1 | 108.9 | 78.3 | 101.1 | 128.3 | 142.7 |
| LOC65434E | 94.4 | 104.8 | 73.1 | 69.8 | 74.2 | 70.2 | 90.9 | 118.2 |
| LOC723972 | 1228.6 | 1815.5 | 292.6 | 271.5 | 253.9 | 290.6 | 1000.8 | 1156.7 |
| LOC72793E | 99.8 | 99.6 | 92.1 | 87.3 | 86.3 | 90.1 | 98.9 | 102.6 |
| LOC728137 | 114.9 | 113.9 | 91.6 | 85.9 | 81.4 | 77.3 | 98.3 | 130.5 |
| LOC72821E | 81.5 | 84.9 | 85.4 | 74 | 80.1 | 77.3 | 85.6 | 84 |
| LOC72826E | 94.7 | 115.4 | 93.5 | 92.8 | 79.7 | 88.2 | 95.4 | 111.3 |
| LOC72848E | 1228 | 1543 | 941.5 | 679.3 | 593.2 | 694.8 | 1142.3 | 1220.6 |
| LOC728621 | 81.1 | 82.9 | 90 | 78.6 | 80.2 | 74 | 80.6 | 81.9 |
| LOC72863E | 149.5 | 183.3 | 108.3 | 103.4 | 95.1 | 101.3 | 116.7 | 128.9 |
| LOC72864E | 2641.8 | 4147.4 | 743.4 | 642.5 | 477.4 | 793.2 | 2514.4 | 4006.8 |
| LOC72875E | 140.4 | 176.5 | 138.7 | 203.8 | 195.8 | 192 | 133.7 | 168.6 |
| LOC729164 | 89.9 | 104.6 | 95.2 | 95.3 | 96.3 | 89.3 | 97.5 | 95.6 |
| LOC72944C | 127.2 | 152.7 | 92.6 | 77.1 | 81.6 | 97.6 | 109.5 | 131.4 |
| LOC72960E | 9398.9 | 10336.4 | 3666.9 | 7699.9 | 7297.2 | 4731.4 | 8594 | 8983.4 |
| LOC81558 | 128.6 | 135.2 | 96.5 | 104.6 | 99.8 | 105.6 | 98.7 | 146.5 |
| LOC81691 | 844.7 | 1023.3 | 763.6 | 611.9 | 574.6 | 692.5 | 583.3 | 701.6 |
| LOC84661 | 3311.2 | 3989.9 | 2325.8 | 2574.2 | 1775 | 2730 | 3122 | 4973.8 |
| LOC89944 | 90.6 | 89.3 | 98.5 | 85.5 | 84 | 88.3 | 83 | 86.6 |
| LOC90167 | 81.1 | 97.4 | 81.7 | 79 | 72.7 | 82.5 | 83.4 | 94.5 |
| LOC90321 | 131.7 | 175.1 | 94.5 | 92 | 78.2 | 92.2 | 134.4 | 166.1 |
| LOC90355 | 231.3 | 287.8 | 194.5 | 202.7 | 165.3 | 245.6 | 215.4 | 267.1 |
| LOC90379 | 128.9 | 159.1 | 120.1 | 103.9 | 99 | 98.1 | 125.5 | 157.7 |
| LOC90379 | 272.2 | 320 | 284.1 | 219.2 | 209.8 | 292.1 | 227 | 431.7 |
| LOC90580 | 715.9 | 960 | 643.9 | 403.9 | 305.6 | 442.3 | 663 | 1102.7 |
| LOC90586 | 1776.9 | 1768.5 | 1079.3 | 1607 | 1896.3 | 1393.2 | 1468.2 | 2173 |
| LOC90639 | 545.7 | 539.7 | 320.6 | 380.6 | 375.1 | 458.5 | 410.9 | 431.8 |
| LOC90693 | 170.6 | 181.8 | 109.1 | 101.2 | 88.9 | 109.4 | 151.2 | 243.8 |
| LOC90826 | 352.4 | 463.9 | 207.2 | 196.5 | 169.6 | 228.8 | 287.2 | 374.8 |
| LOC90835 | 1924.8 | 2303.2 | 1462.3 | 757.5 | 721.8 | 793.7 | 1436.4 | 1352.9 |
| LOC90925 | 97.3 | 122.2 | 93.6 | 87.6 | 99.1 | 97.3 | 108.7 | 119.3 |
| LOC91137 | 1390.2 | 1721.5 | 545.7 | 636.1 | 430.7 | 933.2 | 1146.3 | 1740.5 |
| LOC91353 | 103.6 | 124 | 112.6 | 92.9 | 89.6 | 90.9 | 113.5 | 119.9 |
| LOC91431 | 204.4 | 251.1 | 115 | 117.6 | 104.5 | 157.8 | 166.8 | 285.4 |
| LOC91461 | 114.5 | 126.1 | 130.3 | 108.7 | 110.4 | 115.6 | 102.2 | 167.7 |
| LOC91561 | 31902.9 | 31382.2 | 51947.2 | 45655 | 44710.4 | 48656.4 | 29830.2 | 29939.5 |
| LOC91614 | 181.5 | 244.6 | 125.8 | 119.4 | 104.2 | 126 | 150.4 | 222.2 |
| LOC91689 | 316.9 | 396.1 | 215.5 | 213 | 183.3 | 214.7 | 249.6 | 327.1 |
| LOC92017 | 84.6 | 123 | 96.8 | 132.2 | 127.5 | 124.4 | 94.7 | 90.7 |
| LOC92196 | 93.2 | 109.2 | 87.8 | 91.2 | 97.5 | 96.5 | 94.7 | 105.9 |
| LOC92270 | 151.4 | 176 | 125.7 | 123.9 | 119.6 | 150 | 141.3 | 166.2 |
| LOC92345 | 259.3 | 302.2 | 216.7 | 173 | 144 | 202.4 | 212.5 | 290.7 |
| LOC92689 | 111 | 134.2 | 103.5 | 90.4 | 95.3 | 88.3 | 108.8 | 130.2 |
| LOC92691 | 128 | 144.9 | 117.4 | 94.4 | 93.5 | 101.9 | 124.8 | 135.7 |
| LOC93081 | 3120.2 | 3739.6 | 1257 | 1365.6 | 1166.2 | 1430.8 | 2977.8 | 3963.7 |
| LOC93349 | 119.8 | 138.3 | 104.6 | 88.8 | 92.2 | 93.1 | 103.8 | 127.4 |
| LOC93622 | 637.2 | 862.9 | 408.5 | 328.7 | 267.8 | 367.6 | 564 | 779.9 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| LOH11CR2/ | 108.3 | 137.1 | 104.3 | 93 | 101.6 | 108.4 | 111.3 | 122.1 |
| LOH11CR2/ | 138.5 | 181.6 | 99.7 | 93.4 | 94.4 | 92.8 | 134.5 | 175.8 |
| LOH12CR1 | 182.3 | 218.7 | 103.8 | 111 | 99.5 | 112.9 | 180.6 | 212.9 |
| LOH3CR2A | 87 | 91.2 | 87.4 | 80.9 | 78 | 82.7 | 79.8 | 84.9 |
| LONP2 | 159.4 | 172.6 | 107.4 | 118.2 | 110.9 | 129.1 | 155.5 | 141.5 |
| LONRF1 | 258.1 | 345.4 | 231.3 | 192.4 | 178 | 244.8 | 274 | 478.1 |
| LONRF2 | 91.6 | 100.5 | 89.5 | 82.2 | 84.2 | 88 | 84.1 | 104.6 |
| LONRF3 | 161.5 | 203.5 | 151.2 | 131.3 | 119.4 | 167.2 | 163.1 | 275.4 |
| LONRF3 | 98.7 | 105.3 | 86 | 86.3 | 90.6 | 77.2 | 89.8 | 102 |
| LOR | 76.6 | 83.9 | 88.5 | 84.8 | 78.5 | 76.1 | 71.8 | 75.3 |
| LOX | 93.1 | 90.9 | 77 | 84.7 | 88.2 | 81.8 | 91.7 | 92.8 |
| LOXHD1 | 129.4 | 138.7 | 102.9 | 97.9 | 84.5 | 91.7 | 114.7 | 147.4 |
| LOXL1 | 68 | 81.6 | 83.2 | 80.1 | 77.2 | 73.3 | 69.2 | 83.7 |
| LOXL1 | 89.5 | 95.9 | 103.4 | 96.7 | 91 | 80.6 | 94.3 | 96 |
| LOXL2 | 78 | 87.3 | 84 | 76.5 | 74.2 | 79.1 | 83.5 | 92.1 |
| LOXL3 | 139.3 | 146.1 | 154.1 | 138.4 | 125.2 | 151.8 | 133.4 | 142.6 |
| LOXL4 | 101.8 | 105.8 | 96.6 | 97.6 | 95.8 | 97.1 | 89.2 | 107.7 |
| LPA | 95.7 | 116.4 | 105.3 | 102.2 | 84.1 | 83.7 | 104 | 110.4 |
| LPA | 83.5 | 86.3 | 100.6 | 93.5 | 104.5 | 95.7 | 87.5 | 82.1 |
| LPAL2 | 78.4 | 95.7 | 98.3 | 89.5 | 86.9 | 97.1 | 80.3 | 106.9 |
| LPAL2 | 93 | 94.7 | 91.2 | 93.3 | 80.8 | 88.2 | 83.4 | 89.8 |
| LPAL2 | 78.2 | 84.9 | 96.1 | 95.8 | 85.9 | 97.3 | 77.4 | 92.8 |
| LPGAT1 | 134.7 | 166.9 | 110.3 | 104.7 | 92.5 | 101.3 | 124.5 | 130 |
| LPHN1 | 250.9 | 360 | 381.3 | 284 | 237.8 | 428.2 | 269.2 | 497.7 |
| LPHN1 | 145.9 | 157.3 | 99.7 | 83.6 | 96.3 | 98.2 | 156.3 | 154.1 |
| LPHN2 | 685.9 | 1011.5 | 432.6 | 573.3 | 474.3 | 748.3 | 624.4 | 1129 |
| LPHN3 | 268.3 | 362 | 143.9 | 300.5 | 223.7 | 408 | 241.9 | 608 |
| LPIN1 | 929.1 | 1127.5 | 580.7 | 890.6 | 781.7 | 1039.4 | 933.2 | 1430.2 |
| LPIN2 | 183.7 | 236.4 | 144.8 | 117.6 | 97.1 | 119.6 | 169.4 | 185.4 |
| LPIN3 | 139.5 | 131.6 | 110.4 | 97.4 | 106.5 | 105.6 | 120.9 | 141.2 |
| LPL | 622.4 | 700.8 | 277.6 | 418.6 | 265.1 | 548.5 | 333.9 | 428.8 |
| LPO | 85.4 | 101.7 | 93.8 | 93.3 | 95.9 | 100.9 | 88.8 | 103.7 |
| LPP | 724.8 | 1352.8 | 374.1 | 1074.1 | 967.1 | 1548.3 | 859.8 | 833.4 |
| LPPR2 | 146.8 | 223.7 | 163.2 | 202.6 | 139.6 | 225.9 | 150.9 | 242.3 |
| LPPR4 | 91 | 97.2 | 94.6 | 94 | 81.1 | 87.1 | 85 | 109.6 |
| LPXN | 1936.4 | 2374.7 | 976.9 | 1026.2 | 820.9 | 966.5 | 2621.6 | 3809.7 |
| LRAP | 5193.5 | 4597.2 | 3634.9 | 4437.3 | 4467.2 | 3387.6 | 4544.2 | 7925.5 |
| LRAT | 89.6 | 95.1 | 87.5 | 88.1 | 80.8 | 97.3 | 96.2 | 98.1 |
| LRBA | 250.1 | 314.6 | 281.5 | 420.7 | 330.1 | 479.5 | 245.8 | 304.9 |
| LRCH1 | 92.9 | 99.8 | 86.3 | 86.8 | 87.5 | 78.8 | 97.3 | 99.3 |
| LRCH2 | 104.7 | 119.7 | 94 | 90 | 86.4 | 89.9 | 104.1 | 116.9 |
| LRCH3 | 235 | 291.1 | 166.8 | 186.9 | 168.1 | 178.3 | 189.5 | 248.5 |
| LRCH4 | 1263.4 | 1608 | 676.6 | 642.4 | 680.8 | 620.6 | 970.9 | 651 |
| LRDD | 244.9 | 249.7 | 373.1 | 240.6 | 244.6 | 424 | 170 | 290.1 |
| LRDD | 204.1 | 210.6 | 218.5 | 177 | 176.3 | 263 | 194.5 | 213.5 |
| LRDD | 83.4 | 100.2 | 89.4 | 76.3 | 79.7 | 79.5 | 76.5 | 89.1 |
| LRFN2 | 73.1 | 83.1 | 93.2 | 80.5 | 84.1 | 81.3 | 83.2 | 75.3 |
| LRFN3 | 561.4 | 727.7 | 456.1 | 330 | 282.4 | 325.4 | 485 | 493.9 |
| LRFN4 | 170.8 | 204.5 | 210.5 | 169.5 | 143.1 | 240.7 | 168.1 | 320.7 |
| LRFN5 | 83.6 | 96.7 | 92.9 | 92 | 88.6 | 96.2 | 95 | 98 |

| | | | | | | | | |
|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| LRG1 | 1230.7 | 1583.6 | 493.2 | 336.7 | 354.3 | 374 | 942.9 | 702.5 |
| LRIG1 | 428 | 630.1 | 366.8 | 611.8 | 587.5 | 875.3 | 428.7 | 902.7 |
| LRIG2 | 230.1 | 259.4 | 174.4 | 133.4 | 120.8 | 163.1 | 178.6 | 246 |
| LRIG3 | 90.4 | 99.1 | 94.1 | 84.9 | 88 | 92.4 | 91.2 | 93.9 |
| LRMP | 496 | 611 | 402.9 | 494.8 | 529.3 | 670.6 | 354.1 | 516.4 |
| LRP1 | 109.7 | 124.7 | 92.7 | 87.5 | 84.3 | 92.8 | 128.2 | 145.1 |
| LRP10 | 521.6 | 553.3 | 215.7 | 162.9 | 167.7 | 165.2 | 586.8 | 939.2 |
| LRP11 | 504.1 | 671.6 | 239.5 | 386.4 | 288 | 543.2 | 403.7 | 696.7 |
| LRP12 | 125.4 | 127.8 | 99.5 | 98.5 | 113.4 | 95 | 118.3 | 134.8 |
| LRP16 | 101.9 | 123.8 | 98.4 | 80.5 | 86.6 | 87.7 | 99 | 111.7 |
| LRP1B | 85.1 | 96.6 | 92.2 | 96.9 | 82.2 | 86.6 | 92.7 | 88.1 |
| LRP2 | 80.5 | 92.5 | 92.5 | 84 | 85.1 | 93 | 78.3 | 82.4 |
| LRP2BP | 124.2 | 147.4 | 104.7 | 90.2 | 87.4 | 99.4 | 132.5 | 140.4 |
| LRP3 | 2350 | 2880.3 | 1798 | 1551.7 | 1131.2 | 1350.5 | 1806.7 | 1992.4 |
| LRP4 | 89 | 91.6 | 102.5 | 103.1 | 84.8 | 102.7 | 78.3 | 91.4 |
| LRP5 | 97.3 | 107.5 | 132.2 | 130.2 | 115.2 | 133.2 | 94.4 | 105 |
| LRP5L | 255.2 | 249.7 | 162.9 | 245.8 | 262.6 | 295.4 | 189.2 | 192.1 |
| LRP6 | 121.5 | 140.6 | 117.2 | 117.4 | 111.1 | 122.1 | 132 | 125.6 |
| LRP8 | 166.9 | 165.3 | 112 | 110.5 | 93.1 | 115.3 | 197.1 | 411.9 |
| LRP8 | 782.6 | 896.7 | 586.6 | 811.2 | 609.3 | 1179.2 | 1141.7 | 2225.5 |
| LRPAP1 | 521.9 | 745.3 | 360.6 | 307.7 | 270.9 | 396.9 | 542.5 | 634.3 |
| LRPPRC | 735.7 | 1127.6 | 704.5 | 788 | 588.1 | 979.3 | 589.2 | 929 |
| LRRC1 | 150.6 | 178.5 | 99.2 | 90 | 85.3 | 86.9 | 118.9 | 175.2 |
| LRRC1 | 435.1 | 490.7 | 263.7 | 312.2 | 218 | 325.4 | 386.3 | 557.5 |
| LRRC10 | 83.7 | 87.3 | 93.8 | 95.2 | 87.5 | 81.3 | 90.7 | 82.7 |
| LRRC14 | 723.4 | 750.9 | 445.8 | 252.4 | 237.6 | 262.2 | 453.2 | 518.9 |
| LRRC15 | 153.1 | 241.1 | 118.3 | 108.9 | 102.8 | 108.9 | 182.2 | 184.5 |
| LRRC16 | 118.4 | 132.1 | 106.6 | 104.3 | 94.8 | 93.8 | 99.4 | 107.6 |
| LRRC17 | 236.6 | 259.6 | 176.7 | 211.4 | 186.8 | 246.4 | 152.6 | 181.5 |
| LRRC17 | 90.1 | 111.9 | 96.4 | 97.5 | 91.4 | 101.9 | 96.2 | 103.4 |
| LRRC17 | 121.7 | 157.7 | 104.4 | 108.7 | 98.8 | 129.9 | 101.3 | 128.6 |
| LRRC18 | 97.8 | 115.1 | 92.6 | 82.1 | 86 | 87.8 | 96.9 | 100.1 |
| LRRC19 | 116.5 | 140.6 | 100.6 | 95.4 | 92.3 | 78.8 | 112.6 | 131.4 |
| LRRC2 | 89.6 | 101.6 | 82.5 | 82.9 | 77.7 | 85.7 | 93.4 | 97.2 |
| LRRC20 | 69.2 | 76.4 | 88 | 83.2 | 81.9 | 80 | 75.9 | 82.1 |
| LRRC20 | 731 | 950 | 492.3 | 368.4 | 294.1 | 333 | 500 | 400.8 |
| LRRC20 | 133 | 188 | 182.6 | 163.5 | 135.5 | 174.7 | 125.2 | 152.9 |
| LRRC21 | 85.9 | 103.5 | 93.4 | 86.3 | 80.6 | 87 | 91.3 | 119.2 |
| LRRC22 | 79.2 | 89 | 99.4 | 93.9 | 93.5 | 81.8 | 78.5 | 78.1 |
| LRRC23 | 104.4 | 112.9 | 105.6 | 100.9 | 99.3 | 109 | 106.4 | 113.9 |
| LRRC23 | 90 | 99 | 107 | 90.7 | 96.2 | 86.9 | 91.6 | 97.3 |
| LRRC24 | 92.3 | 103.3 | 96.5 | 92.6 | 86.3 | 79.6 | 87.4 | 107.7 |
| LRRC25 | 84.5 | 93.6 | 104.4 | 101.4 | 91.6 | 94.6 | 82.9 | 86.1 |
| LRRC27 | 98.6 | 111.8 | 91.8 | 89.7 | 82.3 | 83 | 101.8 | 99 |
| LRRC28 | 343.3 | 459.1 | 209.5 | 236.2 | 204.5 | 229.3 | 342.7 | 351.9 |
| LRRC29 | 91 | 103.2 | 98.8 | 96.6 | 91 | 95.7 | 84.5 | 86.1 |
| LRRC29 | 144 | 188 | 131.4 | 126.7 | 114.1 | 118.8 | 146.8 | 195.4 |
| LRRC3 | 193.5 | 234.7 | 121.7 | 159.1 | 117.4 | 141 | 180.2 | 213 |
| LRRC31 | 112.7 | 123.4 | 104.3 | 110.1 | 110.7 | 113.4 | 105.5 | 128.1 |
| LRRC32 | 90.4 | 97.6 | 84.4 | 94.5 | 87 | 85.9 | 93 | 85.5 |

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|----------|--------|--------|--------|--------|-------|--------|--------|--------|
| LRRC33 | 767.4 | 1017.6 | 992.9 | 880 | 711.3 | 1421.6 | 721.9 | 1587.6 |
| LRRC34 | 220.6 | 283.3 | 105.8 | 98.3 | 83.6 | 94.3 | 160.6 | 233.8 |
| LRRC35 | 108.7 | 149.5 | 99.4 | 84.6 | 82.4 | 86 | 112 | 128.2 |
| LRRC36 | 94.7 | 110.1 | 93.5 | 87.5 | 80.8 | 90.4 | 89.4 | 106.9 |
| LRRC37A2 | 91.4 | 115.5 | 94 | 91.8 | 99.1 | 88.3 | 89.6 | 104.8 |
| LRRC37B | 579.2 | 724.9 | 353.3 | 608.6 | 520 | 645.2 | 535.9 | 851.8 |
| LRRC39 | 112.6 | 129.8 | 95.9 | 90.3 | 86.5 | 91.6 | 105 | 139.8 |
| LRRC3B | 102.1 | 115.2 | 115.5 | 100.3 | 98.6 | 110.6 | 128.1 | 182.4 |
| LRRC4 | 88.5 | 110.1 | 86.2 | 83.2 | 82.6 | 84 | 79.6 | 110.2 |
| LRRC40 | 131.8 | 140.7 | 124.6 | 117.4 | 103.6 | 120.7 | 122.9 | 192.3 |
| LRRC41 | 670.9 | 859.5 | 251.9 | 200.1 | 171.2 | 210.4 | 536.3 | 487.8 |
| LRRC42 | 1003.9 | 1232.2 | 625.7 | 845 | 648.7 | 730 | 1036.7 | 1396.7 |
| LRRC43 | 97.1 | 101.3 | 106.7 | 105.8 | 107.2 | 115.7 | 87.1 | 94.3 |
| LRRC45 | 202.7 | 227.5 | 365.2 | 337.7 | 338.6 | 579.2 | 137.5 | 178.8 |
| LRRC45 | 153.2 | 169.1 | 142.2 | 144.5 | 120.2 | 177 | 110.8 | 126.7 |
| LRRC46 | 108.5 | 151.4 | 93.8 | 101.5 | 79.9 | 97.8 | 122.1 | 154.3 |
| LRRC47 | 539.8 | 649.4 | 319.5 | 400.5 | 279 | 365.9 | 445.4 | 609.4 |
| LRRC48 | 105 | 110.9 | 100.8 | 102 | 89.7 | 84.6 | 98.7 | 149.1 |
| LRRC48 | 80.7 | 88.7 | 104.1 | 98.6 | 91.1 | 90.4 | 78.5 | 80.6 |
| LRRC49 | 95.8 | 104.8 | 90.7 | 101.2 | 89.4 | 96.5 | 94.9 | 111.4 |
| LRRC4B | 94.3 | 111.6 | 92.6 | 91.9 | 87.9 | 83.5 | 94.4 | 110.6 |
| LRRC4C | 97.5 | 92 | 90.9 | 89.4 | 98.4 | 81.5 | 87.5 | 92.9 |
| LRRC50 | 106.5 | 121.9 | 98.8 | 96.1 | 82 | 86.5 | 98.1 | 114.2 |
| LRRC51 | 99.7 | 108.9 | 90.7 | 104 | 96.8 | 100.4 | 93.6 | 85.9 |
| LRRC52 | 91.3 | 93.3 | 90.6 | 83.6 | 85.1 | 90.1 | 94.5 | 108.2 |
| LRRC54 | 217.6 | 264.6 | 199.4 | 117.7 | 103.3 | 116 | 210.8 | 346.7 |
| LRRC55 | 86.8 | 95.7 | 93.8 | 93.4 | 89.5 | 92.8 | 99.7 | 92.2 |
| LRRC56 | 169.6 | 205.8 | 128.8 | 106.6 | 108.6 | 115.3 | 144 | 132.2 |
| LRRC57 | 435.5 | 507.1 | 207.1 | 174.8 | 157.7 | 215.2 | 447.3 | 606.6 |
| LRRC59 | 159.7 | 224.3 | 112.3 | 86.1 | 79.9 | 99.6 | 147.4 | 200.8 |
| LRRC6 | 110.4 | 124.5 | 101.5 | 85.6 | 85.7 | 87.3 | 103 | 111.3 |
| LRRC61 | 88.9 | 101 | 92.2 | 82.7 | 81.6 | 80.5 | 86.4 | 112.7 |
| LRRC7 | 74.6 | 82.7 | 89.2 | 81.7 | 86.6 | 79.2 | 71.8 | 74.6 |
| LRRC8A | 286.9 | 314.3 | 192.1 | 156.3 | 150.5 | 145.5 | 322.3 | 386.1 |
| LRRC8B | 98.7 | 107.2 | 91.6 | 84.4 | 88.1 | 85.8 | 98.8 | 110 |
| LRRC8C | 375.1 | 559.8 | 245.5 | 235.2 | 214.5 | 333.7 | 329.4 | 608.3 |
| LRRC8D | 480.2 | 662.8 | 299.6 | 320.5 | 232.2 | 360.3 | 421.9 | 580.6 |
| LRRC8E | 122.3 | 147.9 | 92 | 82 | 86.8 | 97.6 | 108.9 | 133.7 |
| LRRCC1 | 130.7 | 115.4 | 104.1 | 89.2 | 82.3 | 92.3 | 128.8 | 138.7 |
| LRRCC1 | 2095.8 | 2700.4 | 676.3 | 591.8 | 525.3 | 823.1 | 1381.6 | 2450.4 |
| LRRCC1 | 116.4 | 118.4 | 104.4 | 104.4 | 96.6 | 91.9 | 95.3 | 121.8 |
| LRRFIP1 | 1437.6 | 1564.3 | 1753.4 | 2697.3 | 2033 | 3003.2 | 1849.8 | 4019.7 |
| LRRFIP2 | 77.7 | 92.6 | 84 | 81.4 | 80.6 | 78.1 | 71.5 | 90 |
| LRRFIP2 | 453.5 | 681.6 | 447.1 | 562.7 | 497.4 | 802 | 587.7 | 1092.5 |
| LRRFIP2 | 507.1 | 644.4 | 270.3 | 288.3 | 287.6 | 415.8 | 515.4 | 667.8 |
| LRRIQ1 | 81.3 | 84.3 | 84.4 | 88.3 | 80 | 77.9 | 80.9 | 77.1 |
| LRRIQ2 | 78.6 | 87.6 | 93.8 | 85.8 | 87.7 | 85.4 | 87 | 90.7 |
| LRRK1 | 151.9 | 157.5 | 101 | 118.9 | 93.7 | 116.9 | 147.8 | 202.6 |
| LRRK2 | 87.6 | 109.2 | 95.5 | 87.9 | 78.5 | 83.7 | 92.1 | 90.9 |
| LRRK2 | 94.9 | 128.6 | 94.3 | 91.5 | 87.1 | 97.4 | 95.5 | 122.3 |

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|-----------|--------|---------|--------|--------|--------|--------|--------|--------|
| LRRN1 | 92 | 112.1 | 98.8 | 83.6 | 87.3 | 92.6 | 88.9 | 106.1 |
| LRRN3 | 100.8 | 112.4 | 96.3 | 89.5 | 85.1 | 83.7 | 106.7 | 118.2 |
| LRRN5 | 99.3 | 113.7 | 95.5 | 100.3 | 96 | 104.8 | 95.2 | 103.2 |
| LRRN5 | 97.6 | 112.7 | 92.6 | 98.7 | 83.9 | 78.2 | 98.4 | 97.4 |
| LRRN5 | 118.6 | 127.3 | 90.6 | 90.3 | 81.5 | 83.9 | 104.8 | 123.3 |
| LRRN6A | 108.3 | 115 | 97.9 | 90.2 | 85.4 | 87.9 | 105 | 124.8 |
| LRRN6C | 80.8 | 95.9 | 93.1 | 86.2 | 89.7 | 92.1 | 91.4 | 79.9 |
| LRRTM1 | 120 | 126.5 | 93.5 | 83.2 | 85 | 84.6 | 121.9 | 119.7 |
| LRRTM2 | 95.3 | 101.9 | 99.2 | 93.1 | 97.6 | 86.9 | 90.8 | 96.6 |
| LRRTM3 | 83.3 | 97.5 | 99.4 | 85.1 | 76.4 | 87.4 | 85.7 | 94.4 |
| LRRTM4 | 165 | 194.1 | 106.6 | 102 | 102.8 | 93.9 | 158 | 173.5 |
| LRSAM1 | 80.5 | 84.8 | 91.5 | 85.1 | 86.5 | 78.8 | 81.6 | 84.1 |
| LRSAM1 | 471.7 | 542.9 | 373.9 | 236 | 233.3 | 263.6 | 373.1 | 398.4 |
| LRSAM1 | 94.7 | 113.8 | 94.8 | 84 | 85.4 | 90.8 | 109.5 | 119.7 |
| LRTM1 | 94.4 | 112.4 | 97.9 | 93.5 | 88 | 84.2 | 93.5 | 121.2 |
| LRTM2 | 133.5 | 149.1 | 107.1 | 91.7 | 91 | 94 | 102.6 | 141.9 |
| LSAMP | 116.3 | 130.4 | 112.2 | 106.7 | 106.8 | 115.8 | 102 | 131.2 |
| LSDP5 | 183.4 | 209.4 | 119.5 | 124.4 | 134 | 110 | 158.2 | 212.4 |
| LSG1 | 383.3 | 378 | 247.2 | 235.6 | 167 | 259.5 | 299 | 575.3 |
| LSM1 | 8780.3 | 10885.9 | 8180.7 | 6172.5 | 4479.2 | 6418 | 7948.2 | 9325.7 |
| LSM10 | 654.5 | 802.3 | 368.7 | 278.9 | 236.1 | 345.6 | 583.1 | 661 |
| LSM11 | 123.7 | 129.9 | 120 | 98.1 | 95.2 | 88.3 | 99.7 | 110.8 |
| LSM12 | 1014.1 | 1438 | 499.5 | 416 | 308.1 | 419.6 | 798.9 | 1344.2 |
| LSM14A | 2826.9 | 3575.8 | 2200.7 | 2168 | 1761.6 | 2180.4 | 2793.2 | 2669.3 |
| LSM14B | 230.5 | 314.9 | 120.6 | 115.8 | 116.6 | 122.2 | 230.8 | 267 |
| LSM16 | 177.6 | 206.9 | 209.9 | 203.4 | 175.6 | 256.4 | 173.7 | 285.6 |
| LSM2 | 7100.9 | 8186.4 | 3623 | 3281.4 | 2623.6 | 3394.7 | 6710 | 6877.2 |
| LSM3 | 4968.3 | 4953.9 | 3075.4 | 3556 | 2279 | 3410.7 | 5310.7 | 9075.6 |
| LSM4 | 3310.2 | 4785.6 | 2758.1 | 1228.9 | 1067.5 | 1705.3 | 2794.7 | 3222.9 |
| LSM5 | 575.6 | 660.2 | 342 | 332.7 | 225 | 279.3 | 541.1 | 977.9 |
| LSM6 | 466.8 | 530.4 | 183.5 | 142.3 | 106.3 | 123.5 | 459.5 | 852.8 |
| LSM7 | 7076.8 | 8379.7 | 4293.7 | 3049.5 | 2853.8 | 4236 | 6434.6 | 6821 |
| LSM8 | 680.6 | 855.7 | 416.7 | 386.1 | 316.3 | 408.7 | 495.3 | 665.5 |
| LSMD1 | 767.2 | 1040.6 | 361.5 | 392 | 273 | 464 | 710.5 | 932.2 |
| LSP1 | 129.9 | 131.3 | 117.5 | 169.8 | 160.4 | 222 | 113.7 | 168.9 |
| LSP1 | 85.7 | 94.1 | 96 | 93.7 | 94 | 91.8 | 86.2 | 102.9 |
| LSP1 | 91.2 | 100.7 | 98.7 | 210.2 | 190.7 | 173.3 | 96 | 93 |
| LSP1 | 108.5 | 131.4 | 96.7 | 90 | 76 | 78.2 | 95.1 | 128.6 |
| LSR | 86.8 | 90 | 105.5 | 91.4 | 91.8 | 101.5 | 93.4 | 93 |
| LSR | 109.9 | 140.4 | 94.7 | 101.9 | 85.9 | 99.2 | 101.6 | 119.7 |
| LSR | 126.5 | 145.7 | 89.6 | 79.1 | 89.7 | 100.8 | 108.4 | 179.2 |
| LSS | 101.2 | 127.7 | 98 | 106.5 | 113.9 | 122.2 | 105.4 | 121.7 |
| LSS | 135.9 | 152.8 | 113.4 | 123 | 115.6 | 117.1 | 123 | 137.4 |
| LSS | 291.6 | 383 | 386.5 | 529 | 702.3 | 773.6 | 226.5 | 377.1 |
| LST1 | 4088 | 4779.5 | 3766.7 | 1740.5 | 1479.4 | 2045.5 | 3381.1 | 3416.7 |
| LST1 | 253.5 | 293.6 | 245 | 154.9 | 137.8 | 143.6 | 190.2 | 274.2 |
| LST1 | 3544.2 | 4178 | 1752.4 | 1095.1 | 911 | 1385.5 | 2991.1 | 3506.4 |
| LST1 | 3412.9 | 4359.3 | 1645.7 | 1320.1 | 1026.4 | 1189.7 | 3137.5 | 3405.9 |
| LST-3TM12 | 102.5 | 105.8 | 93.7 | 87.9 | 91.3 | 84.7 | 99.9 | 117.2 |
| LTA | 188.5 | 163.7 | 112.9 | 109.1 | 99.7 | 105.6 | 167.1 | 185.9 |

| | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| LTA4H | 2506 | 3268.2 | 1111.9 | 1775.2 | 1299.8 | 2121.7 | 2055.7 | 2687.5 |
| LTB | 533.3 | 715.1 | 337.5 | 279.7 | 221.5 | 219.4 | 717.9 | 800.9 |
| LTB | 165.8 | 231.3 | 139.4 | 129.2 | 123.4 | 118.7 | 220.8 | 265.9 |
| LTB4DH | 985.9 | 1484.7 | 672.5 | 534.1 | 413.3 | 583.4 | 978.4 | 1246.5 |
| LTB4R | 159.9 | 168.8 | 167 | 177.4 | 153.6 | 254.2 | 144.9 | 158.3 |
| LTB4R2 | 94 | 102 | 102.5 | 92.5 | 92.1 | 97.7 | 89.1 | 99.5 |
| LTBP1 | 103.4 | 126.6 | 93.5 | 80.7 | 74.8 | 82.6 | 112.3 | 124.5 |
| LTBP1 | 102.2 | 120.7 | 93.8 | 92 | 87.3 | 91 | 117.2 | 108.4 |
| LTBP3 | 101.8 | 110.6 | 90.4 | 96.8 | 92.7 | 87.8 | 99.3 | 97.8 |
| LTBP3 | 97.2 | 95 | 88.5 | 79.7 | 80.7 | 81.5 | 93.8 | 99.3 |
| LTBP3 | 217.9 | 281.9 | 178.9 | 119.8 | 116.5 | 141.5 | 233.4 | 285.4 |
| LTBP4 | 98.7 | 101.8 | 101.4 | 97.8 | 90.9 | 99.2 | 98.9 | 102 |
| LTBP4 | 195.3 | 232.9 | 183.6 | 181.7 | 162.3 | 193.1 | 211.5 | 332.4 |
| LTBR | 309.6 | 430.8 | 455.2 | 434.9 | 355.4 | 549.8 | 366.1 | 1224.1 |
| LTC4S | 793.2 | 1062.9 | 489.8 | 598.5 | 487.3 | 397.4 | 659.3 | 677.7 |
| LTF | 105.8 | 113.3 | 99.1 | 81.6 | 86.7 | 85.4 | 90.2 | 120.3 |
| LTK | 137.2 | 136.5 | 89.8 | 97.7 | 90.4 | 97.7 | 122.9 | 161.7 |
| LTK | 87.9 | 110.6 | 97.8 | 98.1 | 86 | 85.7 | 100.6 | 101.6 |
| LTV1 | 3029.3 | 4055.1 | 981.2 | 717.7 | 642.9 | 1197.9 | 2508.8 | 3741.5 |
| LUC7L | 124 | 126.6 | 99.9 | 89.9 | 97 | 100.1 | 117.1 | 138.6 |
| LUC7L | 447.5 | 582.1 | 297.3 | 310.1 | 280.8 | 399.1 | 349.9 | 443.2 |
| LUC7L2 | 184.1 | 196.6 | 145.1 | 172.1 | 157.3 | 181.2 | 156.2 | 176 |
| LUM | 85.3 | 91.5 | 102.6 | 94.9 | 89 | 97.8 | 82.2 | 89.4 |
| LUZP1 | 567 | 843.1 | 567.1 | 725.8 | 621.9 | 914.3 | 533.2 | 607.9 |
| LUZP2 | 102.4 | 129.3 | 111.1 | 106.9 | 107.1 | 101.1 | 94.6 | 99.9 |
| LUZP4 | 73.8 | 82.1 | 74.8 | 81.5 | 80.5 | 75.4 | 80.2 | 82.2 |
| LXN | 86.4 | 97.8 | 99.5 | 86.6 | 87.7 | 84.1 | 97.1 | 101.6 |
| LY6D | 85.5 | 108 | 92.1 | 78 | 92.1 | 82.6 | 99.8 | 102 |
| LY6E | 889.3 | 1234.9 | 876.7 | 193 | 197.8 | 249.2 | 725.4 | 1439.8 |
| LY6G5B | 104.8 | 119.9 | 104.6 | 101.4 | 98.7 | 96.9 | 92.2 | 116.9 |
| LY6G5C | 221.7 | 257.2 | 140.8 | 133.9 | 115.5 | 104.9 | 199.6 | 240.3 |
| LY6G5C | 109.9 | 135.7 | 94.6 | 88.3 | 77.5 | 83.3 | 102.4 | 114.1 |
| LY6G5C | 79.1 | 79.8 | 98.4 | 86.6 | 86.3 | 87.4 | 81.2 | 75 |
| LY6G6C | 119.4 | 148.7 | 91.9 | 79.9 | 76.3 | 85.5 | 107.6 | 151.8 |
| LY6G6D | 87.2 | 95.6 | 103.8 | 84.2 | 88.6 | 82.8 | 84.1 | 103 |
| LY6H | 276.3 | 321.3 | 195.4 | 126.7 | 138.1 | 159.5 | 257.2 | 266.3 |
| LY6H | 97.4 | 128.9 | 84.3 | 88.4 | 88.5 | 88.2 | 98.6 | 115.4 |
| LY6K | 85.6 | 100.6 | 88.4 | 84.5 | 82.7 | 87.5 | 77.5 | 95.2 |
| LY75 | 82.9 | 89.8 | 95.8 | 82.7 | 92.3 | 84.1 | 84.8 | 100.4 |
| LY86 | 1600.7 | 2115.5 | 1276.7 | 1467.9 | 1205.6 | 1457.2 | 1611.5 | 1871.2 |
| LY9 | 107.5 | 147.2 | 106.6 | 85.8 | 79.3 | 82.7 | 108.5 | 115.8 |
| LY9 | 84.5 | 97.9 | 113.9 | 101.6 | 102.4 | 102.1 | 82.6 | 89.4 |
| LY9 | 104.9 | 130.4 | 95.5 | 91.4 | 82 | 92.8 | 103.5 | 130.5 |
| LY96 | 188.8 | 230 | 176.2 | 277.1 | 246.5 | 356.6 | 253.6 | 311.5 |
| LYAR | 2379 | 2880.5 | 609.6 | 590.9 | 539.6 | 949.4 | 1626.4 | 2542.4 |
| LYCAT | 103.3 | 123.4 | 89.6 | 91.3 | 82.7 | 92.2 | 100.8 | 114.2 |
| LYCAT | 927 | 1178.3 | 615.4 | 578.5 | 413.8 | 700.1 | 730.1 | 1250.5 |
| LYG2 | 100.6 | 116.1 | 95.5 | 88.8 | 83.1 | 100.4 | 100.5 | 126.8 |
| LYK5 | 82.4 | 90.2 | 89.2 | 78.5 | 76.9 | 88 | 82.6 | 108.4 |
| LYK5 | 1380.1 | 1817.1 | 711.3 | 725.8 | 676.8 | 705.4 | 1134.1 | 1146.9 |

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|----------|--------|---------|--------|--------|--------|--------|--------|--------|
| LYK5 | 171.4 | 208.9 | 151.6 | 138.6 | 127.6 | 172 | 164.2 | 254.9 |
| LYL1 | 2771.8 | 3467.8 | 1448.1 | 1621.5 | 1539 | 1838.3 | 2016 | 2010.8 |
| LYN | 3651 | 4842.6 | 3235.6 | 3193.4 | 2302.9 | 2945.9 | 3160.7 | 5917.9 |
| LYNX1 | 86.4 | 81.1 | 91 | 80 | 79 | 82.4 | 87.9 | 94.7 |
| LYNX1 | 87.3 | 111.9 | 86.1 | 75.8 | 76.4 | 83.9 | 99.5 | 106.6 |
| LYNX1 | 92.7 | 103.6 | 81.2 | 77 | 74.6 | 69.2 | 100.6 | 103.9 |
| LYPD1 | 95.6 | 117.1 | 84.7 | 87.5 | 75.4 | 95 | 100.6 | 100.1 |
| LYPD1 | 140.2 | 179.9 | 131.9 | 113.1 | 107.4 | 115.2 | 121.1 | 153.5 |
| LYPD2 | 120.1 | 140.2 | 101.1 | 106.1 | 99.5 | 110.5 | 119 | 134.8 |
| LYPD3 | 95 | 108.2 | 94.5 | 89.1 | 88.1 | 85.1 | 92.1 | 103.4 |
| LYPD4 | 136.3 | 148.4 | 96.2 | 77 | 78.7 | 93 | 114.1 | 133.4 |
| LYPD5 | 75.4 | 83.8 | 70.7 | 75.1 | 75.8 | 70.2 | 85 | 77.4 |
| LYPD5 | 137.5 | 202.3 | 126.1 | 102 | 106.2 | 105.7 | 130 | 143.9 |
| LYPD5 | 105.9 | 123.5 | 107.2 | 92.6 | 89.4 | 90.2 | 108.4 | 111 |
| LYPLA1 | 103.4 | 113.1 | 91.9 | 89.4 | 80.2 | 88.9 | 111.3 | 163.5 |
| LYPLA2 | 245.5 | 358.4 | 205.3 | 163.6 | 130.5 | 148.9 | 221.1 | 288.6 |
| LYPLA2P1 | 133.5 | 168.8 | 106.7 | 94.6 | 87.8 | 104.1 | 139.6 | 145.6 |
| LYPLA3 | 197.4 | 260.5 | 167 | 144 | 141.9 | 160.8 | 211.3 | 372.8 |
| LYPLAL1 | 2534.1 | 2799.6 | 1378.3 | 1244.6 | 975.6 | 1170.8 | 2258.6 | 3495.6 |
| LYSMD1 | 103.4 | 114.7 | 107.2 | 103 | 93.5 | 105.8 | 102.8 | 118.3 |
| LYSMD2 | 1269.8 | 1593.4 | 751 | 854.8 | 672.3 | 891.8 | 1247.8 | 1765.8 |
| LYSMD3 | 153.7 | 193 | 90.9 | 91.4 | 79.1 | 93.3 | 171.3 | 206 |
| LYSMD3 | 102.1 | 109.2 | 92.8 | 84.8 | 83 | 83.3 | 92.4 | 109.7 |
| LYSMD4 | 373.5 | 435.7 | 276.1 | 303.1 | 332 | 379.6 | 285.8 | 328.7 |
| LYST | 1135.6 | 1559.1 | 755.8 | 1341 | 954.6 | 2449.8 | 954.8 | 1844.5 |
| LYST | 114.5 | 134 | 92.5 | 96.4 | 87.3 | 94.2 | 103.6 | 114.9 |
| LYST | 92.7 | 109.6 | 97.5 | 86 | 81.7 | 79.1 | 102.3 | 102.2 |
| LYZ | 419.2 | 631.5 | 334.8 | 416.9 | 370.3 | 529 | 368.5 | 350.8 |
| LYZL1 | 81.9 | 92.6 | 87.4 | 89.1 | 79.7 | 88.3 | 89.4 | 95 |
| LYZL2 | 86.8 | 83.9 | 107.3 | 106 | 99 | 110.5 | 87.1 | 80.1 |
| LYZL4 | 74.6 | 83.3 | 103.8 | 96.6 | 86.5 | 89.1 | 86.5 | 90.2 |
| LYZL6 | 97.5 | 114.9 | 118.4 | 104.9 | 101.1 | 101 | 98.1 | 101.4 |
| LZIC | 297.1 | 369.9 | 174.3 | 162.2 | 130.5 | 183.7 | 244.9 | 316.9 |
| LZTFL1 | 280 | 319.6 | 193 | 209.6 | 170.6 | 238.8 | 215.3 | 424.5 |
| LZTR1 | 729.5 | 799.8 | 861.1 | 686 | 628.3 | 936.8 | 515.4 | 774.1 |
| LZTR2 | 106.3 | 116.4 | 90.6 | 89.7 | 82.7 | 73 | 100.1 | 128.4 |
| LZTS1 | 136.5 | 140.7 | 158.3 | 99.8 | 96.5 | 112.9 | 120.2 | 167.9 |
| LZTS2 | 158.2 | 168.6 | 139.5 | 129.1 | 115.5 | 145.6 | 142.6 | 228.1 |
| M160 | 1090.7 | 1164.1 | 989.4 | 1179 | 729.4 | 1168.5 | 969.8 | 1080.8 |
| M6PR | 2093.8 | 3047.9 | 1051.2 | 934.8 | 737.2 | 1071.3 | 1566.3 | 1950.5 |
| M6PRBP1 | 8192 | 11078.5 | 2993.1 | 2533.3 | 2063.4 | 2459.8 | 7848.1 | 8632.7 |
| MAB21L1 | 100.5 | 123 | 100.2 | 93.4 | 83.1 | 92.9 | 106.3 | 112 |
| MAB21L2 | 82.3 | 82.5 | 92.9 | 88.9 | 78.8 | 92.4 | 93 | 84.2 |
| MAB21L2 | 95.1 | 137.2 | 95.4 | 85.7 | 83.6 | 84.6 | 98.5 | 107.2 |
| MACF1 | 119.6 | 137.8 | 109.1 | 116.7 | 111.4 | 102.4 | 126.5 | 134.6 |
| MACF1 | 91.1 | 93.3 | 93.8 | 88.5 | 96.8 | 88.4 | 94 | 103.8 |
| MACF1 | 292.5 | 435 | 266.4 | 611.4 | 503.2 | 783.5 | 316.9 | 400.4 |
| MAD1L1 | 569.5 | 774.7 | 435.5 | 287.2 | 267.2 | 400.1 | 545.5 | 667.6 |
| MAD2L1 | 262.4 | 256.6 | 146 | 126.7 | 106.8 | 121.3 | 209.6 | 367.6 |
| MAD2L1BP | 92.8 | 94.6 | 112.1 | 95 | 95.5 | 100.7 | 84.5 | 92 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| MAD2L1BP | 877 | 1043.1 | 359 | 287.6 | 226.5 | 239.7 | 665.2 | 710.3 |
| MAD2L1BP | 1530.1 | 2022.9 | 909.3 | 640.6 | 532.1 | 788.7 | 1501.2 | 2491 |
| MAD2L2 | 3166.3 | 4087 | 2534.3 | 2045.9 | 1597.2 | 2558.1 | 2786 | 3885.1 |
| MADCAM1 | 79.1 | 97.9 | 93.8 | 88.9 | 85.1 | 94.9 | 90.7 | 91.1 |
| MADCAM1 | 89.7 | 112 | 114.1 | 90.9 | 93.7 | 86.9 | 84 | 88.1 |
| MADD | 80.7 | 91.7 | 96.6 | 99.6 | 96.7 | 91.6 | 81.8 | 82.9 |
| MADD | 167.7 | 176.5 | 197.1 | 202.8 | 183 | 287.2 | 152.7 | 199.6 |
| MADD | 277.4 | 328 | 180.3 | 186.5 | 196.1 | 189.2 | 260.5 | 273.1 |
| MAEA | 1229.6 | 1545.9 | 739.8 | 271.9 | 247.4 | 255.7 | 931.8 | 1567.8 |
| MAEA | 604.3 | 748.8 | 243.9 | 185.5 | 161.3 | 119.6 | 532.5 | 682.1 |
| MAEL | 74 | 83.5 | 92.7 | 86.9 | 93.2 | 84.2 | 81.6 | 89.2 |
| MAF | 90 | 125.9 | 86.6 | 92.9 | 81.1 | 86.2 | 97.4 | 114.4 |
| MAF | 84.8 | 84.5 | 97.9 | 103.6 | 103.6 | 104.9 | 84.9 | 84.4 |
| MAF1 | 306.9 | 411.3 | 259.7 | 181 | 164.7 | 222.1 | 287.7 | 472 |
| MAFA | 212.9 | 241.1 | 146.1 | 121.8 | 111.4 | 126.8 | 214.8 | 207.7 |
| MAFB | 222.6 | 275.6 | 145.4 | 282.7 | 221.7 | 322.5 | 270 | 431 |
| MAFF | 95.2 | 112.5 | 98.1 | 103.8 | 87.7 | 93.4 | 97.5 | 112.1 |
| MAFF | 691.4 | 944.6 | 230.7 | 189.8 | 165 | 178.2 | 630.3 | 935.6 |
| MAFF | 113.1 | 129.5 | 94.8 | 87.8 | 94.7 | 100.2 | 107.5 | 146.2 |
| MAFG | 238.3 | 258 | 258.4 | 255.1 | 250.2 | 309.6 | 357.2 | 653.1 |
| MAFG | 213.8 | 244.7 | 129.7 | 121.6 | 113.4 | 108.7 | 250.7 | 428.5 |
| MAFK | 112.4 | 137.1 | 95.2 | 94.8 | 86.1 | 90.1 | 100.7 | 131.9 |
| MAG | 82.6 | 91 | 97.1 | 91.7 | 91.6 | 93.6 | 83 | 103.3 |
| MAG | 81 | 85.1 | 94.1 | 91.8 | 79.9 | 88.1 | 93.7 | 82.6 |
| MAGEA1 | 127.3 | 124.8 | 89.5 | 87.4 | 73.3 | 85.7 | 119.1 | 133.2 |
| MAGEA10 | 82.4 | 82.8 | 78.4 | 87.4 | 87.2 | 80.4 | 84.9 | 79.8 |
| MAGEA10 | 93 | 119 | 102 | 89.1 | 77 | 78.2 | 94.1 | 109.7 |
| MAGEA11 | 107.3 | 109.9 | 83 | 86 | 79.6 | 81.2 | 102.4 | 134 |
| MAGEA11 | 74.6 | 79.4 | 90 | 87.4 | 75.3 | 77.7 | 78.6 | 88.6 |
| MAGEA11 | 175.9 | 199.7 | 111 | 98 | 100.2 | 102.4 | 179.2 | 174.9 |
| MAGEA11 | 86.4 | 118.3 | 93 | 77.2 | 72.7 | 74.1 | 102.2 | 114.3 |
| MAGEA12 | 90.5 | 111.4 | 95.9 | 93 | 89.4 | 100.4 | 103.3 | 94.2 |
| MAGEA2 | 107.6 | 110.6 | 90.2 | 80.6 | 88.9 | 80.3 | 111.4 | 103.8 |
| MAGEA2 | 79.3 | 71.5 | 90.3 | 92.3 | 84.4 | 87 | 71.7 | 87.3 |
| MAGEA2B | 80.1 | 93.1 | 86.5 | 89.3 | 77.8 | 77.3 | 84.9 | 84.2 |
| MAGEA3 | 87.8 | 94.5 | 93.8 | 90.8 | 86.9 | 85.9 | 80.5 | 90.1 |
| MAGEA4 | 81.3 | 91.8 | 96.6 | 88 | 103.3 | 100.2 | 82.7 | 93.5 |
| MAGEA5 | 96.3 | 107.9 | 93.2 | 95.9 | 95.9 | 104.4 | 90.8 | 110.3 |
| MAGEA6 | 112.1 | 123.1 | 101.8 | 103.2 | 86.1 | 101.7 | 111.3 | 120.3 |
| MAGEA8 | 72.8 | 81.2 | 92.6 | 85.1 | 87.2 | 86.8 | 76.7 | 78.9 |
| MAGEB1 | 77.8 | 85.2 | 83.9 | 82.7 | 78.8 | 85 | 80.5 | 77.9 |
| MAGEB1 | 85.6 | 93.9 | 85.7 | 84.8 | 77.7 | 84 | 99.4 | 96.1 |
| MAGEB10 | 96.4 | 103.3 | 82.2 | 82.6 | 77.3 | 79.6 | 94.4 | 111.5 |
| MAGEB18 | 94.3 | 104 | 93.9 | 88 | 77.8 | 82.9 | 100.3 | 104.8 |
| MAGEB2 | 97.2 | 126.8 | 81.6 | 78.1 | 72.1 | 85.1 | 92.1 | 125.3 |
| MAGEB3 | 140 | 178.2 | 91.3 | 86.1 | 89 | 87.8 | 134.2 | 149.4 |
| MAGEB4 | 77.9 | 83.7 | 86 | 76.2 | 78.4 | 88.1 | 79 | 90.2 |
| MAGEB6 | 106.6 | 122.2 | 101.5 | 82.6 | 90.6 | 86.9 | 100.6 | 99.4 |
| MAGEC1 | 88.4 | 88.2 | 93.9 | 79.4 | 82.5 | 84.4 | 89.2 | 84.1 |
| MAGEC1 | 82.4 | 83.7 | 84.2 | 72 | 76.5 | 80.6 | 78.9 | 90.9 |

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|--------|--------|--------|-------|--------|-------|--------|--------|--------|
| MAGEC2 | 84.3 | 103.9 | 84 | 73.3 | 74 | 83.1 | 90.7 | 95.9 |
| MAGEC3 | 81.3 | 88.4 | 90.8 | 93.7 | 76.8 | 99.2 | 80.7 | 90.1 |
| MAGEC3 | 84.4 | 99.4 | 88.1 | 77 | 82.3 | 80.2 | 93.9 | 89.9 |
| MAGEC3 | 83.9 | 92.5 | 78.9 | 85 | 80.5 | 82.4 | 92.8 | 89.5 |
| MAGED1 | 389.3 | 465.6 | 289.2 | 1271.3 | 864.4 | 1204 | 329.3 | 433.3 |
| MAGED1 | 174.7 | 196.2 | 140.7 | 297.8 | 234.9 | 330.4 | 169.5 | 200.6 |
| MAGED1 | 102.3 | 105.4 | 96.2 | 101.2 | 101.6 | 84.3 | 101.5 | 115.8 |
| MAGED1 | 94 | 102 | 90.3 | 91.3 | 82.9 | 92.8 | 88.1 | 97.4 |
| MAGED2 | 224.8 | 284.6 | 121.7 | 131.7 | 120.8 | 107.5 | 186.5 | 230.4 |
| MAGED2 | 143.5 | 155.9 | 97.1 | 98.6 | 98.4 | 102.5 | 125.4 | 147.7 |
| MAGED2 | 197.5 | 259.6 | 129.4 | 122 | 104 | 138.8 | 176.3 | 223.7 |
| MAGED2 | 163.9 | 189.6 | 96.8 | 85.3 | 87.9 | 91.5 | 142.9 | 192.5 |
| MAGED4 | 103.1 | 125.9 | 109 | 106.5 | 102.9 | 99 | 110.4 | 121.5 |
| MAGEE1 | 170.6 | 213.5 | 164.3 | 169.7 | 146.9 | 207.4 | 144.3 | 184.3 |
| MAGEE2 | 103.7 | 111.7 | 98 | 87.7 | 88.2 | 93.1 | 104.9 | 102.7 |
| MAGEF1 | 234.6 | 325.1 | 131.1 | 125 | 126.5 | 155.3 | 171.1 | 169 |
| MAGEH1 | 145.7 | 162.8 | 131.2 | 138.9 | 130.8 | 123.8 | 141.3 | 161.1 |
| MAGI1 | 80.6 | 89.8 | 89.3 | 92.4 | 79.7 | 79.3 | 85.6 | 86.4 |
| MAGI1 | 73.5 | 86.3 | 78.1 | 76.6 | 78.8 | 75.4 | 78.6 | 86.9 |
| MAGI1 | 109.8 | 130.8 | 83.3 | 82.2 | 84.2 | 87.8 | 119.8 | 139.5 |
| MAGI2 | 87.3 | 103.6 | 88.2 | 83.2 | 75.5 | 83.1 | 100.3 | 100.3 |
| MAGI3 | 83.3 | 92.6 | 98.9 | 86.1 | 86.6 | 92.2 | 88.3 | 81.2 |
| MAGI3 | 82.5 | 89.7 | 95.1 | 90.3 | 97.8 | 92.5 | 84.6 | 97 |
| MAGMAS | 1830.6 | 2039.6 | 1598 | 933.2 | 729.2 | 1550.6 | 1453.7 | 1782.1 |
| MAGOH | 1573.3 | 2251.9 | 852.8 | 820.4 | 738.1 | 851.3 | 1369.7 | 1495.7 |
| MAK | 87.3 | 90.2 | 93.2 | 89.4 | 87 | 82.2 | 84.9 | 88.3 |
| MAK10 | 203.5 | 228.4 | 120.2 | 97.1 | 80.2 | 110.9 | 185.7 | 304 |
| MAL | 113.4 | 122.1 | 96.3 | 92.5 | 89.9 | 93.5 | 113.5 | 126.6 |
| MAL | 102.9 | 110.8 | 116.7 | 94.5 | 89.3 | 103.9 | 102.7 | 101.2 |
| MAL2 | 78 | 104.6 | 83.5 | 82.1 | 79.4 | 73.8 | 91.8 | 103.2 |
| MALAT1 | 113 | 109.9 | 81.3 | 84.5 | 83 | 83 | 101.5 | 96.6 |
| MALL | 89.9 | 96.8 | 105.3 | 102.9 | 87.2 | 95.7 | 88.6 | 94.2 |
| MALT1 | 267.8 | 372.5 | 143.8 | 159.9 | 147.3 | 175.9 | 308.4 | 406.9 |
| MALT1 | 85.9 | 103 | 86.2 | 84.1 | 83.2 | 85.6 | 86.4 | 100.7 |
| MAMDC1 | 84 | 99.3 | 93.6 | 98.4 | 85.9 | 95.9 | 86.4 | 88.6 |
| MAMDC2 | 71.5 | 87.5 | 91 | 78.5 | 73.8 | 93.9 | 81.7 | 98.4 |
| MAMDC4 | 102.6 | 110.5 | 121.3 | 116.3 | 122.2 | 145.9 | 88.8 | 112.7 |
| MAML1 | 82.6 | 87.6 | 94.9 | 89.3 | 90.6 | 89.8 | 84.4 | 89.3 |
| MAML1 | 145.3 | 194.7 | 166.3 | 178 | 161.9 | 224 | 149.1 | 189.7 |
| MAML2 | 81.1 | 100.9 | 84.4 | 89.8 | 79.4 | 86.1 | 88.1 | 103.1 |
| MAML3 | 90.6 | 100.7 | 82.8 | 82.6 | 67.6 | 73.4 | 94.3 | 103.3 |
| MAN1A1 | 308.5 | 378.4 | 181.8 | 151.8 | 154.3 | 147.8 | 270.6 | 352.2 |
| MAN1A2 | 143.7 | 182 | 109.5 | 97 | 96 | 123.1 | 121.9 | 189 |
| MAN1B1 | 1022.8 | 1404.1 | 834.2 | 938.2 | 789.3 | 1002.3 | 876.1 | 846.2 |
| MAN1C1 | 193.4 | 243.2 | 190.6 | 159.9 | 145 | 164.2 | 183.5 | 307.1 |
| MAN2A1 | 88.1 | 115.5 | 90.5 | 90.5 | 82.6 | 93.1 | 99 | 104.4 |
| MAN2A2 | 147 | 155.4 | 136.4 | 188.8 | 181 | 230.3 | 140.6 | 216.3 |
| MAN2B1 | 358.3 | 479.2 | 395.3 | 398.2 | 334 | 487.9 | 310.1 | 484.6 |
| MAN2B2 | 1257.4 | 1790.9 | 292.9 | 316.6 | 254.6 | 349.4 | 1179.9 | 1164.5 |
| MAN2C1 | 251.5 | 282.2 | 424 | 427 | 436.6 | 674.4 | 165.7 | 276.6 |

| | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| MANBA | 331 | 452.6 | 220.3 | 324.2 | 302.3 | 488.8 | 275.7 | 449 |
| MANBAL | 846.6 | 1088.5 | 715.2 | 658.4 | 541.3 | 776.4 | 798.5 | 1089.1 |
| MANBAL | 103.4 | 112 | 113.5 | 86.2 | 94.1 | 101.5 | 96.4 | 106.2 |
| MANBAL | 337.9 | 389.9 | 153.4 | 135.7 | 121.5 | 137.2 | 340.9 | 333.2 |
| MANEA | 78.4 | 91.7 | 82.3 | 80.8 | 79.3 | 87 | 88.6 | 88.3 |
| MANEA | 460.1 | 606.2 | 217.6 | 227.4 | 195.1 | 223.4 | 308.9 | 453.1 |
| MANEAL | 78.4 | 84.8 | 92.4 | 99.3 | 99.9 | 90.2 | 87.4 | 103.1 |
| MANEAL | 106.2 | 113.3 | 95.7 | 82.1 | 82.5 | 80.3 | 95.7 | 89.5 |
| MANEAL | 97 | 110.8 | 94.9 | 85.3 | 84.8 | 75.7 | 95.8 | 110.8 |
| MANSC1 | 109.2 | 133.6 | 101.7 | 101.5 | 90.1 | 107 | 113.3 | 123.7 |
| MAOA | 81.9 | 100.9 | 87.3 | 92.6 | 84.5 | 91.2 | 86.4 | 94.3 |
| MAOB | 112.3 | 117.2 | 95.9 | 85.7 | 87.4 | 90.7 | 94.9 | 106 |
| MAP1A | 109.1 | 117.3 | 137.1 | 139.8 | 136 | 133.2 | 103.2 | 112.3 |
| MAP1B | 88.1 | 102.6 | 94.5 | 88.3 | 82 | 83.2 | 85.9 | 87.3 |
| MAP1B | 119.1 | 151.1 | 135 | 155 | 165.7 | 171.5 | 141.3 | 211.4 |
| MAP1B | 92.8 | 126.7 | 88.3 | 85.4 | 91.2 | 88.4 | 115.7 | 151 |
| MAP1D | 134.4 | 153.9 | 92.7 | 94.3 | 85.8 | 85 | 112.2 | 150.2 |
| MAP1LC3A | 87.1 | 93.8 | 91.2 | 91.6 | 79.5 | 78.5 | 82.8 | 84.8 |
| MAP1LC3A | 92.9 | 100.3 | 89.3 | 91.2 | 93.4 | 97 | 96.9 | 95.9 |
| MAP1LC3A | 933.9 | 1264.8 | 1004.5 | 968.8 | 843 | 803.5 | 1015.6 | 1813.8 |
| MAP1LC3B | 603.6 | 739.4 | 391.6 | 334.6 | 252.2 | 394.5 | 593.5 | 1279.5 |
| MAP1LC3C | 119.3 | 155.7 | 113.7 | 101.9 | 112.9 | 97.8 | 117.8 | 115.7 |
| MAP2 | 80.8 | 82.1 | 90.9 | 82.2 | 79 | 85.9 | 80.9 | 95.8 |
| MAP2 | 102.2 | 104.5 | 88.7 | 80.4 | 81.3 | 80.3 | 97.7 | 116.2 |
| MAP2 | 95 | 101.2 | 98.9 | 87 | 84.2 | 94.8 | 99 | 105.8 |
| MAP2 | 104.7 | 125.1 | 96.9 | 92.6 | 86.3 | 107 | 101 | 106.3 |
| MAP2K1 | 865 | 1076.3 | 529.2 | 695.8 | 510.7 | 754.9 | 863.5 | 1554.4 |
| MAP2K1IP1 | 1568.3 | 1894.4 | 755.8 | 902.6 | 592.8 | 1224.8 | 1400.3 | 2591.5 |
| MAP2K3 | 89.2 | 95.8 | 88.2 | 84.3 | 81.6 | 79.5 | 75.6 | 103.9 |
| MAP2K3 | 102.7 | 130.7 | 109.1 | 94 | 90.9 | 95.7 | 118.2 | 124.2 |
| MAP2K3 | 85.6 | 97.6 | 94.7 | 90.1 | 85.3 | 96.5 | 88.7 | 91.7 |
| MAP2K3 | 122.2 | 161.1 | 87.9 | 86.7 | 92.1 | 86.9 | 117.3 | 135.1 |
| MAP2K4 | 228.2 | 298.2 | 197.6 | 233.3 | 177.2 | 269.7 | 220 | 486.2 |
| MAP2K5 | 258.7 | 305.7 | 232.2 | 275.1 | 216.2 | 289.7 | 261.7 | 379.9 |
| MAP2K5 | 155.7 | 172 | 117.9 | 128.1 | 114.9 | 150.4 | 152.4 | 220.9 |
| MAP2K6 | 153.4 | 184 | 95.1 | 117.8 | 102.9 | 126.7 | 94.3 | 89.8 |
| MAP2K7 | 133.6 | 162.3 | 137.1 | 120.5 | 118.5 | 146.2 | 133.6 | 176 |
| MAP3K10 | 115.3 | 111.1 | 91.8 | 78.8 | 73.4 | 80.9 | 100.6 | 127.1 |
| MAP3K11 | 241.5 | 297.3 | 374.7 | 299 | 251 | 317.4 | 227.2 | 514.9 |
| MAP3K12 | 140.6 | 144.9 | 97.9 | 90.6 | 75.7 | 86.7 | 118.3 | 174.5 |
| MAP3K13 | 85.3 | 90.8 | 91 | 94.9 | 93.4 | 91.2 | 80.3 | 99.3 |
| MAP3K14 | 118.7 | 126.9 | 108.7 | 105 | 105.1 | 115.3 | 110.5 | 120.4 |
| MAP3K15 | 108.3 | 109.4 | 96.9 | 90.8 | 93.1 | 102.6 | 105.9 | 108 |
| MAP3K2 | 187.9 | 235.8 | 119.9 | 141.4 | 133.2 | 149.9 | 205.2 | 280 |
| MAP3K3 | 118.8 | 125.1 | 88.2 | 108.2 | 85.3 | 94.3 | 102.4 | 116.3 |
| MAP3K4 | 101.5 | 107.9 | 101.2 | 97.1 | 85 | 91.2 | 104.6 | 108.1 |
| MAP3K4 | 814.1 | 1117.3 | 1156.4 | 1021 | 998.8 | 1591.3 | 740.6 | 978.2 |
| MAP3K6 | 499.5 | 572.6 | 330.6 | 254.5 | 233.6 | 320.6 | 334.7 | 342.5 |
| MAP3K7 | 647.4 | 968 | 251.7 | 220.5 | 204.7 | 316 | 507.1 | 670.7 |
| MAP3K7 | 2092.5 | 2715.8 | 1275.1 | 1556.3 | 1088.9 | 2341.6 | 1716.9 | 3216.4 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| MAP3K7IP1 | 114.5 | 120 | 93.7 | 101.1 | 85.9 | 95.8 | 117.6 | 116.5 |
| MAP3K7IP1 | 244.3 | 270.7 | 285.6 | 242.4 | 194.5 | 267 | 264.7 | 534.5 |
| MAP3K7IP1 | 92.3 | 98 | 92.6 | 82.5 | 88.4 | 85.2 | 108.4 | 112.2 |
| MAP3K7IP2 | 158.3 | 198.1 | 105.5 | 102.3 | 109 | 125.1 | 144.3 | 229.8 |
| MAP3K8 | 159.7 | 182.5 | 128.6 | 128.4 | 141.7 | 155.4 | 140.3 | 250.8 |
| MAP3K9 | 92.9 | 106.4 | 90.3 | 84.8 | 81.2 | 88.2 | 95.1 | 108 |
| MAP4 | 135.4 | 193.7 | 110.4 | 147.2 | 124.7 | 114.5 | 135.4 | 171.5 |
| MAP4 | 92.5 | 91.2 | 95.1 | 90.1 | 86.1 | 88.9 | 93.5 | 99.8 |
| MAP4 | 97.5 | 111.8 | 94.1 | 92 | 78.4 | 92.1 | 95.3 | 111.3 |
| MAP4K1 | 2017.3 | 2431.1 | 1381 | 670.8 | 522.8 | 726.5 | 1563.6 | 2154.6 |
| MAP4K1 | 491.7 | 636.2 | 744 | 388.4 | 325.5 | 459.5 | 430.8 | 896.3 |
| MAP4K2 | 2457.8 | 3103.4 | 1803.5 | 1501.4 | 1350.1 | 1462.5 | 1892.9 | 1773.5 |
| MAP4K3 | 224.8 | 263.8 | 122.5 | 119.1 | 116.3 | 171.4 | 178 | 232 |
| MAP4K4 | 105 | 104.5 | 100.2 | 97.4 | 82.2 | 97 | 99 | 110.7 |
| MAP4K4 | 236.2 | 295.7 | 178.4 | 254.9 | 215.2 | 351.5 | 198.6 | 379.8 |
| MAP4K5 | 205.1 | 250.4 | 113.6 | 85.7 | 88.2 | 99.4 | 184.9 | 253.6 |
| MAP4K5 | 293 | 339.6 | 165.3 | 162.2 | 139.2 | 217.2 | 255.6 | 386.5 |
| MAP6 | 84.9 | 99.4 | 94.6 | 83.5 | 92 | 88.1 | 83.6 | 94.8 |
| MAP6 | 86.5 | 83.8 | 90 | 84.4 | 81.9 | 87.2 | 79.4 | 85.5 |
| MAP6 | 101.1 | 123.7 | 89.6 | 85.4 | 76 | 83.8 | 107.2 | 112.1 |
| MAP6D1 | 511.7 | 748.1 | 355.1 | 345 | 275.3 | 356.1 | 450.2 | 435.8 |
| MAP7 | 138.8 | 187.4 | 119.5 | 128.8 | 123 | 170.5 | 132.7 | 154.4 |
| MAP7D2 | 75.5 | 87.8 | 87.5 | 81.9 | 82.4 | 95.9 | 81.9 | 88 |
| MAPBPIP | 4205.1 | 5255.9 | 2341.9 | 1896.2 | 1469.1 | 1872.4 | 3727.6 | 4126.8 |
| MAPK1 | 129.4 | 175.1 | 107.8 | 136 | 115.3 | 141.8 | 118.6 | 140.5 |
| MAPK1 | 1283.8 | 1696.1 | 843.3 | 797.7 | 632.2 | 866.6 | 1277.4 | 1727.8 |
| MAPK1 | 587.3 | 757.7 | 393.6 | 335.4 | 284.7 | 396.9 | 487.1 | 833.8 |
| MAPK10 | 69.5 | 85.5 | 86.5 | 80.5 | 74.8 | 76.2 | 84.5 | 83.1 |
| MAPK10 | 103.7 | 118.7 | 111.5 | 94.1 | 86.5 | 93 | 91.3 | 101.1 |
| MAPK10 | 99.4 | 114.8 | 105.9 | 94.6 | 97.9 | 100.9 | 103.6 | 103.4 |
| MAPK10 | 75.3 | 91.8 | 95.9 | 86.7 | 80.8 | 81.6 | 81.9 | 91.3 |
| MAPK10 | 100.3 | 100.5 | 95 | 81.2 | 83.1 | 87.1 | 96.5 | 99.6 |
| MAPK11 | 145.8 | 181.3 | 139.5 | 137.8 | 113.5 | 162.8 | 137.5 | 162.8 |
| MAPK11 | 96.2 | 103.1 | 97.3 | 93.3 | 93.6 | 97.8 | 93.1 | 103.3 |
| MAPK12 | 342.5 | 464.7 | 224.2 | 170 | 153.5 | 233 | 270.2 | 425.2 |
| MAPK13 | 156.2 | 195.4 | 131.5 | 158.8 | 141.4 | 161.4 | 133.7 | 139.6 |
| MAPK14 | 107.5 | 126.6 | 98.3 | 96.4 | 85.2 | 89.9 | 96.2 | 113.3 |
| MAPK14 | 266.8 | 297.2 | 167.7 | 203.9 | 158 | 151.3 | 191.4 | 288.2 |
| MAPK14 | 192.7 | 261.4 | 142.5 | 176.2 | 154.3 | 142.4 | 132.2 | 179.7 |
| MAPK15 | 104.6 | 138.2 | 90.4 | 87.2 | 87.8 | 91.9 | 104.2 | 112 |
| MAPK3 | 1200.9 | 1495.4 | 752.2 | 474.9 | 423 | 434.9 | 1096 | 1032.5 |
| MAPK3 | 441.2 | 486.6 | 327.5 | 253.8 | 230.5 | 288.7 | 452.1 | 845.9 |
| MAPK4 | 84 | 95.3 | 100 | 89.9 | 91.6 | 81.6 | 79.8 | 101.5 |
| MAPK6 | 2051.2 | 2540.5 | 1499.2 | 1864.9 | 1447.4 | 2539.6 | 1753.1 | 3240.7 |
| MAPK7 | 126.7 | 143.6 | 102.2 | 114.5 | 82.4 | 97.9 | 123.4 | 143.3 |
| MAPK7 | 145.3 | 161.4 | 186.7 | 227.4 | 189 | 239.9 | 148.7 | 272.3 |
| MAPK7 | 105.2 | 109 | 97.3 | 99.6 | 94.7 | 102.3 | 102 | 96.4 |
| MAPK8 | 112.8 | 136.8 | 106.6 | 92.3 | 80.3 | 98.6 | 99.1 | 104.3 |
| MAPK8 | 107.7 | 136 | 90.6 | 82.8 | 85.4 | 85.4 | 103 | 109.8 |
| MAPK8IP1 | 81.2 | 94.7 | 85.9 | 88.9 | 85.2 | 80.8 | 78.4 | 84.1 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| MAPK8IP2 | 106.3 | 145 | 86.7 | 89.5 | 86.5 | 82.9 | 105.5 | 125.9 |
| MAPK8IP2 | 79.3 | 79.8 | 88.4 | 87 | 88.2 | 79.5 | 76.8 | 86.7 |
| MAPK8IP2 | 91.4 | 105.6 | 93.2 | 95.4 | 84.8 | 93.6 | 95.7 | 94.7 |
| MAPK8IP2 | 96.8 | 100.8 | 97.1 | 94.4 | 94.4 | 82.8 | 94.4 | 95.2 |
| MAPK8IP3 | 101 | 104.9 | 93.7 | 78.5 | 90.2 | 90.7 | 103.8 | 120.7 |
| MAPK8IP3 | 192.7 | 202.1 | 259 | 239.3 | 272.4 | 370.4 | 171.8 | 380.3 |
| MAPK9 | 1478.7 | 2370.8 | 1204.9 | 1114.1 | 885.5 | 1709.2 | 1340.4 | 2112.4 |
| MAPKAP1 | 237.7 | 291.8 | 182.7 | 254.2 | 213.6 | 290.8 | 199.2 | 242.6 |
| MAPKAP1 | 789.3 | 1057.4 | 478.5 | 406.1 | 306.4 | 425.8 | 624.2 | 807.3 |
| MAPKAPK2 | 104.1 | 124.4 | 99.3 | 85.3 | 77.7 | 97.8 | 122 | 124.2 |
| MAPKAPK2 | 215.3 | 299.2 | 153.6 | 124.9 | 120.2 | 151.6 | 225.7 | 414.2 |
| MAPKAPK3 | 4723.7 | 6022.4 | 3336.9 | 3059.1 | 2373.1 | 2367.7 | 3927.3 | 3197 |
| MAPKAPK5 | 1050.6 | 1269.3 | 342 | 288.7 | 281.8 | 451.3 | 936.3 | 1589.8 |
| MAPKBP1 | 96.4 | 99.2 | 99.7 | 119.8 | 111.4 | 132.2 | 86.6 | 106 |
| MAPRE1 | 4500.7 | 6726.9 | 2839.2 | 3341.6 | 2305.3 | 3633.6 | 4355.1 | 6249.5 |
| MAPRE2 | 1007.4 | 1667.4 | 767.7 | 735.8 | 611.3 | 955.4 | 813.7 | 1232.5 |
| MAPRE3 | 120.7 | 139.5 | 121 | 110.1 | 97.9 | 111.3 | 132.5 | 171.2 |
| MAPT | 98.4 | 126.5 | 109.9 | 86.5 | 76.7 | 82.9 | 104.9 | 119.4 |
| MAPT | 75.2 | 88.7 | 95.8 | 85.4 | 80.4 | 87 | 75.8 | 79.4 |
| MAPT | 74.9 | 92.6 | 100.5 | 100.7 | 92.8 | 106.7 | 81.3 | 85.2 |
| Mar-01 | 87.2 | 98.9 | 95.4 | 101.2 | 84.8 | 103.9 | 88.3 | 88.6 |
| Mar-02 | 245.4 | 276.4 | 192.6 | 165.3 | 157.8 | 214.9 | 209.7 | 302.8 |
| Mar-02 | 125.1 | 151.3 | 135.8 | 138 | 120.9 | 128.1 | 123.9 | 164.2 |
| Mar-02 | 181.4 | 190.9 | 97.8 | 102.7 | 94.3 | 111 | 150.3 | 189.9 |
| Mar-02 | 109.3 | 111.5 | 100.9 | 84.3 | 85.1 | 94 | 99.9 | 108.1 |
| Mar-03 | 197.3 | 278.1 | 144.4 | 144.9 | 145.3 | 134.2 | 153.8 | 173.6 |
| Mar-03 | 471.1 | 622.2 | 360.9 | 525.7 | 459.6 | 610 | 344.2 | 472.3 |
| Mar-03 | 482.9 | 658.1 | 356.4 | 480.4 | 433.2 | 589.8 | 345 | 421.4 |
| Mar-04 | 93.6 | 98.7 | 92.1 | 80.1 | 82.3 | 81.3 | 84.7 | 88.5 |
| Mar-05 | 262.8 | 377.9 | 119.8 | 129.7 | 113.1 | 134.4 | 330.3 | 511.8 |
| Mar-06 | 250.7 | 303.6 | 268.9 | 598.1 | 586.8 | 414.3 | 242.4 | 299.2 |
| Mar-07 | 3079.8 | 3087.5 | 2504.9 | 2933.2 | 2438.4 | 4420.3 | 2183.1 | 3618.2 |
| Mar-08 | 88.7 | 93.6 | 85.6 | 85.9 | 80.4 | 83.4 | 82.2 | 88.9 |
| Mar-08 | 92.5 | 111 | 94.1 | 78.9 | 85 | 83.7 | 106.2 | 106 |
| Mar-08 | 79.9 | 83.2 | 77.4 | 79.4 | 75.1 | 81.1 | 75.8 | 76.8 |
| Mar-09 | 106.9 | 110.6 | 113.2 | 99.1 | 95.7 | 103.1 | 97.1 | 93.9 |
| MARCKS | 1629.7 | 1788.8 | 812.4 | 2707.3 | 2232.7 | 3024.8 | 907.3 | 1188.2 |
| MARCKSL1 | 702.6 | 973.3 | 611.8 | 770.5 | 448.7 | 742.5 | 569.5 | 1156.5 |
| MARCO | 111.1 | 132 | 115.2 | 102 | 108.2 | 118.4 | 119.6 | 133.9 |
| MARK1 | 90.4 | 99.9 | 104.7 | 98.9 | 104.7 | 105.1 | 93.5 | 104.4 |
| MARK2 | 99.4 | 116.3 | 96.4 | 102 | 102.1 | 91.7 | 102.2 | 118.6 |
| MARK2 | 86.8 | 92.3 | 88.9 | 90 | 80.2 | 94.3 | 83.7 | 95.9 |
| MARK2 | 142.3 | 165.9 | 131 | 134.5 | 117.4 | 130.5 | 120.8 | 197.6 |
| MARK3 | 263.7 | 361.4 | 256.9 | 213.7 | 207 | 265 | 248.2 | 421 |
| MARK4 | 119.5 | 142.4 | 99.6 | 88.6 | 74.6 | 86.2 | 118 | 150.4 |
| MARS | 401 | 521.1 | 195.5 | 188.6 | 177.5 | 278.2 | 398.4 | 703.9 |
| MARS2 | 144.1 | 165.2 | 110.6 | 103.8 | 102.5 | 103.1 | 132.2 | 180.5 |
| MARVELD2 | 81.5 | 93.2 | 87.5 | 82.5 | 80.2 | 75.6 | 92.7 | 98.9 |
| MARVELD2 | 78.7 | 91.7 | 97.9 | 81.6 | 85 | 85.7 | 84.7 | 89.3 |
| MARVELD2 | 75.5 | 94.6 | 85.1 | 79.5 | 78.7 | 74.4 | 78.5 | 77 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| MARVELD3 | 89.2 | 92.6 | 83.7 | 88 | 87 | 84.4 | 93.1 | 91.1 |
| MARVELD3 | 101.7 | 112.1 | 95.8 | 95.2 | 83.8 | 95.2 | 104.2 | 111.8 |
| MARVELD3 | 74.8 | 94.2 | 107.9 | 105 | 82 | 97.2 | 82.3 | 79 |
| MAS1 | 90 | 99.8 | 102.3 | 92.3 | 92 | 87.4 | 84.6 | 93 |
| MAS1L | 104.8 | 120.5 | 100 | 97.4 | 93.8 | 88.1 | 103.8 | 119.7 |
| MASA | 3538 | 4358.4 | 1607.9 | 1562.5 | 1042.2 | 1750.1 | 2537.7 | 3351.7 |
| MASK | 1474.1 | 1884.5 | 545 | 653.7 | 526.8 | 775.6 | 1228.6 | 2165.5 |
| MASK-BP3 | 137.3 | 166.9 | 136.6 | 120.3 | 126.2 | 157.7 | 131.1 | 164 |
| MASP1 | 80.2 | 92.7 | 88.4 | 84.4 | 84.2 | 93.9 | 78.4 | 86.2 |
| MASP1 | 91.4 | 117.8 | 93 | 89.9 | 79.6 | 83.6 | 101 | 105.6 |
| MASP1 | 111.5 | 132.1 | 79.3 | 72.2 | 78.8 | 80.3 | 109.5 | 131.6 |
| MASP1 | 86.6 | 98.4 | 99.8 | 96.2 | 97.1 | 95.7 | 83.8 | 91.6 |
| MASP2 | 94.1 | 100.4 | 96 | 77.5 | 91.9 | 87.3 | 93 | 95.7 |
| MASP2 | 79.4 | 84 | 89.3 | 82 | 89.1 | 82.8 | 74.7 | 75.4 |
| MASP2 | 91.7 | 100.4 | 101.4 | 94.7 | 93.7 | 86.7 | 88.3 | 105.8 |
| MASS1 | 92 | 113.6 | 82.6 | 85.6 | 75.2 | 91.4 | 94.3 | 93.9 |
| MAST1 | 74.8 | 88.4 | 100.3 | 88.1 | 85.7 | 89.8 | 81.1 | 102.9 |
| MAST2 | 131.3 | 165.3 | 100 | 99.5 | 89.5 | 99.3 | 120.2 | 161.4 |
| MASTL | 222.1 | 249.5 | 124.9 | 132.9 | 142.6 | 156.9 | 147.3 | 311 |
| MAT1A | 75.1 | 89.8 | 85.9 | 87.1 | 72.3 | 73.7 | 80.3 | 87.6 |
| MAT2A | 6136.3 | 7305.8 | 6285.8 | 4516.4 | 3952.9 | 5382.4 | 3878.6 | 5354.2 |
| MAT2B | 3280.9 | 3927.4 | 1690.9 | 2073.7 | 1515.6 | 2403.7 | 3232.8 | 5390.9 |
| MAT2B | 277.8 | 340.1 | 131.7 | 110.3 | 115.7 | 160.9 | 217.6 | 250.6 |
| MAT2B | 452.3 | 536.9 | 182.9 | 152.7 | 155.2 | 182.8 | 291.6 | 310.6 |
| MATK | 122.7 | 133.7 | 94.2 | 97.5 | 92 | 88.4 | 129.2 | 136.3 |
| MATK | 2382.3 | 2919 | 1185.7 | 556.7 | 406.4 | 437.5 | 1481.7 | 982.6 |
| MATK | 203.2 | 293.9 | 142.8 | 101.7 | 92.8 | 89.9 | 153.6 | 180 |
| MATN1 | 107.7 | 118.3 | 92.9 | 83.4 | 84.9 | 93.6 | 106.1 | 108.3 |
| MATN2 | 94.8 | 115.2 | 97.5 | 93.5 | 87.6 | 91.1 | 91.1 | 105.1 |
| MATN2 | 293.2 | 351.6 | 229.5 | 261.7 | 208.3 | 324.6 | 235.7 | 360.9 |
| MATN3 | 92 | 103 | 98.9 | 92.5 | 80.8 | 97.7 | 90.3 | 105.5 |
| MATN4 | 66.3 | 80.8 | 90.7 | 77.2 | 78.3 | 80.5 | 75.8 | 71.5 |
| MATN4 | 84 | 87.6 | 86.3 | 82.5 | 87.8 | 85.3 | 84.9 | 85.4 |
| MATN4 | 79.1 | 96.6 | 73.6 | 74.1 | 80.6 | 81 | 81.7 | 84.9 |
| MATR3 | 338.4 | 426 | 170.6 | 231.2 | 183.7 | 136.1 | 212.8 | 252.5 |
| MATR3 | 265.8 | 307.2 | 99.6 | 103.1 | 100.3 | 95 | 160.1 | 220.7 |
| MATR3 | 6388 | 7029 | 1959.6 | 2188.2 | 1593.4 | 3201.8 | 5654 | 7743.4 |
| MATR3 | 1326.6 | 1915.3 | 477.8 | 414.3 | 328.8 | 424.9 | 785.6 | 1277.9 |
| MAWBP | 85.3 | 107.7 | 79.2 | 81.2 | 82.4 | 86.6 | 88.2 | 110.5 |
| MAWBP | 102.6 | 117.6 | 98.3 | 81.9 | 79.5 | 86.2 | 100.2 | 108.2 |
| MAWBP | 123.3 | 135.1 | 114.5 | 101.2 | 100.5 | 93 | 100.6 | 109.7 |
| MAX | 252 | 335.2 | 193.1 | 173.8 | 156.4 | 172.3 | 245.1 | 251 |
| MAX | 338.4 | 443.5 | 136.9 | 102.5 | 97.1 | 108.6 | 310 | 442.3 |
| MAX | 270.3 | 363.1 | 173.8 | 135 | 123.4 | 121.8 | 253.1 | 284 |
| MAX | 102.7 | 108.9 | 107.3 | 82.2 | 78.1 | 93.2 | 98.1 | 97.2 |
| MAX | 76.7 | 91.9 | 92 | 88.8 | 84.1 | 84.7 | 76.3 | 84.4 |
| MAZ | 116.7 | 130.9 | 126.9 | 102.6 | 97.4 | 100.5 | 106.7 | 131.3 |
| MAZ | 107.7 | 115.6 | 122.9 | 101.3 | 99.3 | 104.6 | 105.1 | 116.7 |
| MAZ | 254.6 | 294.7 | 198 | 271.8 | 233.2 | 443.8 | 176.8 | 355.7 |
| MB | 101.9 | 126.4 | 103.7 | 97.8 | 90.1 | 96 | 96.3 | 120.2 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MB | 91.2 | 92.5 | 89.9 | 83 | 85.6 | 81.7 | 73.5 | 90.1 |
| MB | 99.5 | 114.7 | 91.8 | 96.1 | 89.4 | 100.8 | 107.8 | 115.3 |
| MB | 85.1 | 92.6 | 90.2 | 80.8 | 82.4 | 80.7 | 83.1 | 80.5 |
| MBD1 | 268.5 | 352.7 | 235 | 205.7 | 187.1 | 294.2 | 252.4 | 336.4 |
| MBD1 | 293.6 | 334.9 | 259.2 | 248.1 | 255.6 | 355.5 | 266.2 | 366.6 |
| MBD2 | 83.3 | 92.3 | 97 | 81.2 | 86.8 | 85.2 | 83.4 | 93.3 |
| MBD2 | 95 | 99.4 | 88.6 | 88 | 77 | 88.5 | 96.3 | 90.2 |
| MBD2 | 88.6 | 99.5 | 84.5 | 87.8 | 85.6 | 78.6 | 96.8 | 92.5 |
| MBD3 | 282.4 | 358.7 | 265.4 | 166.4 | 182.6 | 253.4 | 267.7 | 600.9 |
| MBD3L1 | 83.5 | 89.1 | 84.7 | 74.5 | 76.4 | 74.9 | 85.7 | 98.8 |
| MBD3L2 | 96.9 | 115.3 | 88.4 | 87.8 | 81.5 | 83.8 | 94.3 | 102 |
| MBD4 | 1224.6 | 1322.6 | 1111.8 | 1857.5 | 1681.3 | 1494.8 | 1206.4 | 1990.5 |
| MBD5 | 79.4 | 101.7 | 96.8 | 84.2 | 87.9 | 99.5 | 83.6 | 90.9 |
| MBD6 | 644.7 | 577.3 | 605.9 | 625.7 | 718.1 | 693.7 | 522.9 | 548.2 |
| MBIP | 360.8 | 449.6 | 217 | 248.8 | 189.6 | 335.5 | 320.5 | 634.7 |
| MBL2 | 82.7 | 89 | 101.6 | 88.7 | 86.6 | 80.2 | 78.2 | 91.9 |
| MBNL1 | 1448.5 | 1561.6 | 535.1 | 808.6 | 523.1 | 939 | 1099.4 | 2532.9 |
| MBNL1 | 4158.7 | 4428.3 | 1533.8 | 2497.6 | 1237.8 | 1655.7 | 3027.4 | 4482.4 |
| MBNL1 | 119.1 | 137.7 | 94.3 | 85.4 | 90.1 | 91.4 | 92.4 | 104.9 |
| MBNL2 | 87.6 | 88.5 | 94.9 | 93.3 | 86.1 | 88.5 | 80.5 | 80.4 |
| MBNL2 | 82.4 | 86.7 | 96.3 | 81.6 | 87.8 | 91.6 | 82.7 | 89.1 |
| MBNL2 | 80.9 | 97.5 | 90.4 | 89.6 | 94.8 | 91.9 | 87.9 | 90.3 |
| MBNL3 | 112.3 | 132.6 | 93.4 | 102 | 87.3 | 88.9 | 110.6 | 133.9 |
| MBNL3 | 92.8 | 111.7 | 83.4 | 85.3 | 78.4 | 82.4 | 87.3 | 87.2 |
| MBOAT1 | 121.1 | 143.6 | 89.4 | 77.9 | 77.3 | 87.5 | 121.7 | 130.6 |
| MBOAT2 | 149.1 | 162.5 | 127.4 | 130.7 | 117.8 | 128.2 | 146.7 | 219.4 |
| MBP | 521.4 | 697.6 | 307.8 | 506.4 | 460.4 | 329.8 | 506.7 | 588.6 |
| MBP | 2350.9 | 3406.5 | 1959.3 | 3741 | 2946.4 | 4537.5 | 2250.6 | 2416.3 |
| MBP | 405.4 | 517 | 278.8 | 430.1 | 372.5 | 264.7 | 386.2 | 438.8 |
| MBTD1 | 149.1 | 160.8 | 114 | 155.9 | 127.4 | 113.6 | 135.3 | 153 |
| MBTPS1 | 621.3 | 846.6 | 826.9 | 939.9 | 806.2 | 1495.8 | 531.1 | 1070.1 |
| MBTPS1 | 179.8 | 206.7 | 156.3 | 138.7 | 114.3 | 201.6 | 136.2 | 182.1 |
| MBTPS2 | 225.8 | 277 | 158.3 | 152.6 | 139.2 | 188.2 | 164.5 | 217.6 |
| MC1R | 313.3 | 430 | 196.1 | 202.4 | 173.5 | 170.1 | 275.2 | 208.2 |
| MC2R | 75.1 | 87.8 | 90 | 86.6 | 76.6 | 85.4 | 79.6 | 79.5 |
| MC3R | 80.8 | 91.9 | 89.8 | 74.7 | 82.3 | 75.9 | 89.1 | 84.9 |
| MC4R | 98.2 | 104.1 | 85.1 | 81.2 | 80.2 | 89.2 | 100.7 | 96.9 |
| MC5R | 102.1 | 111.1 | 89.2 | 86.3 | 79.5 | 80.6 | 96 | 98.6 |
| MCAM | 101.1 | 118.8 | 100.3 | 84.2 | 76.7 | 86.9 | 104.4 | 110.8 |
| MCART1 | 206 | 257.8 | 115.7 | 115.8 | 99.7 | 108.9 | 207.1 | 272.6 |
| MCART2 | 80.2 | 88.3 | 89.9 | 84.8 | 74.9 | 89.5 | 82 | 85.6 |
| MCART6 | 86.5 | 82.6 | 101 | 103.8 | 94.4 | 90.8 | 86.7 | 86.4 |
| MCC | 119.1 | 133.3 | 98.2 | 85.3 | 86.6 | 90.6 | 113.6 | 117.8 |
| MCCC1 | 1076.9 | 1426.8 | 730.3 | 857.7 | 740.3 | 1295.7 | 844.7 | 1340.9 |
| MCCC2 | 321.5 | 426.7 | 231.1 | 116.9 | 129.7 | 137.3 | 266.1 | 353.9 |
| MCCD1 | 127.8 | 168.5 | 108.9 | 108.1 | 104.1 | 111.9 | 134.9 | 139.5 |
| MCEE | 852.9 | 1108.6 | 650.6 | 860.6 | 695 | 852.4 | 735.1 | 826 |
| MCEMP1 | 4837 | 6198.8 | 4775.3 | 2579.9 | 1814.8 | 3390.3 | 4218 | 4938.1 |
| MCF2 | 109.2 | 112.6 | 93.5 | 85.1 | 80.9 | 85.3 | 111.2 | 125.5 |
| MCF2L | 86 | 82.7 | 105 | 96.5 | 84.7 | 91.5 | 87.1 | 85 |

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MCF2L2 | 94.8 | 115.1 | 90.5 | 81.4 | 90.4 | 86.7 | 95.4 | 90.5 |
| MCFD2 | 129.6 | 157.3 | 118 | 131.4 | 111.4 | 139.8 | 146.2 | 184.8 |
| MCHR2 | 94 | 105.6 | 94.7 | 93.1 | 80.3 | 97.6 | 95.9 | 104.1 |
| MCHR2 | 113.2 | 162.8 | 108.2 | 110.4 | 94.1 | 107.5 | 141.3 | 141.4 |
| MCL1 | 570.3 | 756.8 | 235.7 | 254.9 | 216.8 | 281.3 | 511.3 | 998.5 |
| MCL1 | 556.7 | 747.7 | 225.5 | 198.7 | 182.2 | 180.7 | 428.4 | 642 |
| MCM10 | 364 | 456.3 | 301.9 | 267.3 | 205 | 286.3 | 258.5 | 402.6 |
| MCM10 | 1671.4 | 1841.6 | 1476.6 | 960.6 | 724.8 | 1068.2 | 1165.1 | 1826.5 |
| MCM2 | 1583.6 | 2108.6 | 2807.8 | 1366.1 | 909.7 | 1726.4 | 1092.1 | 2127.1 |
| MCM3 | 14251.1 | 18500.1 | 14692 | 15942.6 | 11129.4 | 20027.1 | 9330 | 12200 |
| MCM3AP | 775.9 | 956.1 | 501.5 | 584.5 | 529.2 | 593.8 | 697.7 | 761.9 |
| MCM3APA | 172.3 | 217.9 | 173.5 | 247.2 | 208.3 | 267.6 | 145.4 | 183 |
| MCM4 | 2126.3 | 2712.9 | 1172.7 | 873.5 | 546.8 | 789.4 | 1548.2 | 2497.8 |
| MCM4 | 6369.2 | 8166.9 | 5604.3 | 3314.4 | 2981.3 | 3193.6 | 4069.5 | 5033.3 |
| MCM5 | 2062.7 | 3221.3 | 2231.5 | 980.2 | 818 | 1195.4 | 2423.5 | 4198 |
| MCM6 | 9585.7 | 12544 | 10192.6 | 8252 | 6887.9 | 9409.1 | 6528.5 | 8516.8 |
| MCM7 | 1622.2 | 2219.5 | 707.2 | 450 | 511.1 | 177.3 | 912.4 | 1019.1 |
| MCM7 | 12610.2 | 15011.7 | 6369.2 | 5396 | 4549.3 | 5837.2 | 8903 | 8903.1 |
| MCM7 | 280.1 | 306.3 | 160.2 | 131.3 | 136.8 | 109.6 | 172.5 | 183.1 |
| MCM8 | 210 | 271.7 | 147.7 | 127.1 | 135.1 | 147.3 | 160.1 | 251 |
| MCM8 | 79.7 | 93.1 | 93.6 | 97.2 | 76.8 | 80.9 | 88.4 | 90.3 |
| MCM8 | 2820 | 3317.6 | 902.6 | 1491.6 | 1440.2 | 932.9 | 2369.1 | 2716.7 |
| MCMDC1 | 150.6 | 171.5 | 109.3 | 137.4 | 120.3 | 127.1 | 125.3 | 166.3 |
| MCOLN1 | 234.8 | 274.4 | 242 | 193.1 | 170.4 | 215.7 | 229.3 | 408.1 |
| MCOLN2 | 2687.1 | 3106.7 | 2296.4 | 1808.9 | 1713.6 | 2114.6 | 2272.8 | 3681.1 |
| MCOLN3 | 142.7 | 135.6 | 148.3 | 214.8 | 193.8 | 267.1 | 122 | 166.6 |
| MCPH1 | 230.7 | 334.9 | 194.6 | 149.1 | 143.3 | 152 | 213.1 | 254.2 |
| MCRS1 | 1462.5 | 2197.2 | 1290.5 | 916.4 | 777.2 | 934.4 | 1292.3 | 1733.3 |
| MCRS1 | 348.5 | 463.7 | 231.9 | 155.4 | 144.6 | 98.6 | 282.7 | 345.5 |
| MCTP1 | 81.5 | 104 | 77.2 | 74.2 | 75.1 | 82.3 | 85.4 | 94.6 |
| MCTP1 | 312.3 | 391.9 | 236.5 | 246.6 | 195.6 | 257.3 | 242.5 | 274.5 |
| MCTP1 | 80.8 | 90.6 | 92.8 | 88.5 | 85.5 | 76.6 | 81.5 | 96.8 |
| MCTP2 | 75.2 | 90.9 | 87.4 | 76.7 | 72.9 | 78.4 | 83.7 | 81.5 |
| MCTS1 | 812.5 | 987.9 | 292.9 | 300.6 | 196 | 305.1 | 697.6 | 1049.4 |
| MDAC1 | 81.7 | 93.6 | 84.3 | 84.7 | 75.2 | 82 | 77.9 | 87.4 |
| MDC1 | 578.2 | 721.3 | 254.2 | 291.3 | 287.5 | 380.3 | 493 | 806.5 |
| MDFI | 141.8 | 167.5 | 88.5 | 84.4 | 87.1 | 91.3 | 116.5 | 173.5 |
| MDFIC | 396.4 | 510.7 | 195.7 | 214 | 156.1 | 296.3 | 264.3 | 383.1 |
| MDGA1 | 151.5 | 178.7 | 113.6 | 96.9 | 102.5 | 107.6 | 153.3 | 174.1 |
| MDH1 | 12876.3 | 16466.4 | 9841.5 | 10421.7 | 8545.1 | 13301.5 | 10796.4 | 15368.2 |
| MDH1B | 99.5 | 109.2 | 93.8 | 78.1 | 81.8 | 86.7 | 101 | 106.6 |
| MDH2 | 18216.5 | 25839.1 | 15625.8 | 15110.7 | 11640.4 | 13961.2 | 18449.4 | 22268 |
| MDK | 91.7 | 115.9 | 109.7 | 87.3 | 95.3 | 90.6 | 90.2 | 104.9 |
| MDK | 87.9 | 107.2 | 91.6 | 89.3 | 90.4 | 82.6 | 86.9 | 102.2 |
| MDK | 246.3 | 207.4 | 268.6 | 214.9 | 197.4 | 276.5 | 164 | 247.5 |
| MDK | 98.5 | 130.3 | 84.6 | 81.1 | 89.4 | 78.1 | 101.8 | 129.4 |
| MDK | 85.9 | 102.8 | 90.9 | 80.3 | 76.2 | 77.6 | 83.4 | 90.2 |
| MDM1 | 93.2 | 106.1 | 95.1 | 96.7 | 81.5 | 88.8 | 88.7 | 99.1 |
| MDM1 | 144.9 | 187.3 | 112.8 | 95.6 | 92.5 | 103.2 | 128 | 171 |
| MDM1 | 181.6 | 253.2 | 140.8 | 120.2 | 109.5 | 113.4 | 140.5 | 166.1 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| MDM2 | 163.2 | 222.1 | 130.4 | 140.2 | 117.4 | 160.6 | 144.2 | 162.6 |
| MDM2 | 88 | 99.5 | 105.1 | 97.2 | 88.6 | 99.9 | 89.6 | 95.3 |
| MDM4 | 219.6 | 281.1 | 121.2 | 127.7 | 150.6 | 115.9 | 173.7 | 243 |
| MDN1 | 130 | 187.4 | 122.2 | 132.8 | 127.9 | 129.6 | 125.6 | 123.7 |
| MDP-1 | 403.2 | 457.3 | 187 | 147.9 | 124.7 | 155.7 | 340.3 | 394.5 |
| MDS028 | 243.8 | 336.7 | 227.7 | 266.5 | 222.8 | 352 | 246.7 | 320.9 |
| MDS032 | 297.3 | 340.4 | 156.9 | 138.3 | 126.7 | 143.7 | 264.7 | 275 |
| MDS1 | 120 | 131 | 90.5 | 79.2 | 78.4 | 84.7 | 109.1 | 118.4 |
| ME1 | 642.6 | 759.5 | 269.6 | 235.2 | 193.8 | 309.7 | 1495.9 | 3875.6 |
| ME2 | 1661.9 | 2037.3 | 648.4 | 667.1 | 524.4 | 1003.7 | 1389.2 | 1930.6 |
| ME3 | 118.7 | 153.3 | 108.4 | 104.1 | 97.3 | 110 | 113.8 | 124.9 |
| ME3 | 256.6 | 257.5 | 180.2 | 181.8 | 183.6 | 286.8 | 173.2 | 234.5 |
| ME3 | 78.2 | 92.4 | 86.2 | 84.4 | 79.5 | 93.2 | 71.4 | 81.3 |
| MEA1 | 790.2 | 1004.7 | 491.7 | 427.2 | 331.7 | 549.6 | 676.3 | 881.6 |
| MECP2 | 92.7 | 125.3 | 102 | 101.6 | 107.9 | 127.9 | 93.4 | 112.7 |
| MECR | 142.2 | 177.1 | 105.9 | 106.4 | 96.3 | 85.8 | 127.7 | 130.1 |
| MECR | 171.3 | 206 | 166.3 | 139.8 | 127.4 | 166.4 | 182.3 | 305.7 |
| MED12 | 131.6 | 162.6 | 169.4 | 289.4 | 245.7 | 386.3 | 131.5 | 147.8 |
| MED12L | 91 | 82 | 89.5 | 82.9 | 76.1 | 77.4 | 89.4 | 101.2 |
| MED18 | 123.5 | 133 | 89.9 | 87 | 89.4 | 80.6 | 113.6 | 138.5 |
| MED19 | 617.1 | 752.3 | 518.4 | 422.5 | 410.2 | 474.4 | 581.5 | 552 |
| MED25 | 379.3 | 431 | 382.4 | 237.5 | 216 | 222 | 378.1 | 599.6 |
| MED28 | 1927.5 | 2762.3 | 1315.3 | 794.6 | 611.7 | 772.9 | 1740.8 | 2528.5 |
| MED31 | 100.7 | 128.8 | 88.9 | 86.7 | 77.1 | 78 | 102.1 | 129.4 |
| MED4 | 967.3 | 1385.9 | 786.1 | 819.3 | 666 | 1066.2 | 865 | 1325.9 |
| MED6 | 3346.3 | 4178.9 | 2116.8 | 1878.8 | 1359.5 | 1683.7 | 3644.2 | 3981.1 |
| MED8 | 873.2 | 1024.2 | 462.2 | 405.4 | 409.8 | 397.7 | 780 | 874.7 |
| MED8 | 1160.1 | 1568.1 | 445.3 | 352.6 | 314 | 393.3 | 1100.2 | 1334 |
| MED8 | 515.6 | 879.4 | 430.7 | 321.9 | 266.5 | 339.4 | 488.2 | 686 |
| MED9 | 191.9 | 222.6 | 122.8 | 111.3 | 96.3 | 116.4 | 180.4 | 225.2 |
| MEF2A | 154.2 | 194.9 | 108 | 123.9 | 110.2 | 129.1 | 134.6 | 163.3 |
| MEF2B | 101.5 | 98.9 | 92.5 | 98 | 113.6 | 97.3 | 93.1 | 99.7 |
| MEF2C | 845.5 | 1246.4 | 481.8 | 682 | 518.5 | 493.3 | 690.7 | 775.3 |
| MEF2D | 2418.2 | 2855.3 | 1869.5 | 1804.9 | 1665.5 | 1375.3 | 1926 | 1648.1 |
| MEFV | 123.9 | 165.7 | 109.9 | 110.7 | 119.9 | 139 | 124 | 140.7 |
| MEG3 | 99.4 | 113.5 | 87.8 | 97.2 | 82.9 | 87.6 | 95.8 | 110.1 |
| MEG3 | 99.8 | 111.1 | 94.2 | 87.4 | 86.5 | 79.7 | 96.5 | 104.1 |
| MEGF10 | 77.9 | 92.5 | 89.1 | 85.4 | 82.4 | 88.7 | 77.9 | 91.7 |
| MEGF11 | 97.8 | 100.2 | 89.5 | 80.1 | 75.6 | 83.1 | 91.3 | 98.6 |
| MEGF8 | 137.3 | 168.1 | 132.6 | 130.7 | 103.7 | 98 | 141.3 | 174.3 |
| MEGF9 | 147.6 | 168.2 | 95.2 | 86.3 | 74.4 | 95.7 | 123.4 | 194.1 |
| MEI1 | 141.4 | 150.5 | 122 | 140.3 | 115.1 | 130.8 | 145.5 | 157.2 |
| MEIG1 | 74.4 | 85.4 | 77.9 | 66.3 | 65.5 | 69.7 | 73.7 | 84.9 |
| MEIS2 | 447.6 | 633.5 | 404.7 | 281.1 | 242.6 | 366.7 | 318.5 | 482.9 |
| MEIS2 | 104.3 | 127.2 | 82.2 | 88 | 80.4 | 88.3 | 87 | 103.6 |
| MEIS2 | 97.3 | 114.7 | 96.2 | 88 | 74.5 | 86.7 | 93 | 114.2 |
| MEIS2 | 121.6 | 137.6 | 82.9 | 83.1 | 88.7 | 100.5 | 122.9 | 147.3 |
| MEIS3 | 125.6 | 128.7 | 98.6 | 83.2 | 79.7 | 84.2 | 116.8 | 132.8 |
| MEIS3P1 | 558.6 | 628 | 270.7 | 229.5 | 217.7 | 290 | 501.7 | 778.6 |
| MELK | 1306.9 | 1602.6 | 1170.2 | 846.9 | 810.1 | 1241.4 | 1237.5 | 1716 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEN1 | 118.8 | 127.4 | 123.5 | 115.5 | 99.4 | 125.2 | 113 | 150.4 |
| MEN1 | 112.3 | 124 | 96.2 | 96.2 | 92.3 | 87.7 | 113.8 | 123.1 |
| MEN1 | 121.9 | 136.8 | 102 | 88.7 | 80.9 | 94.5 | 118.6 | 130.8 |
| MEN1 | 227.4 | 267 | 266 | 201.2 | 178.7 | 258.4 | 184.5 | 301.9 |
| MEOX1 | 105.5 | 130.3 | 99.6 | 87.7 | 86.1 | 89.7 | 118.1 | 117.3 |
| MEOX1 | 83.4 | 91.3 | 85.5 | 81.9 | 83 | 82.1 | 90.5 | 79.4 |
| MEOX1 | 92.7 | 115.3 | 100.8 | 91.4 | 89.2 | 88.5 | 91.3 | 110.2 |
| MEOX2 | 82.5 | 78.8 | 78.8 | 75 | 82.6 | 86.9 | 76.6 | 84.1 |
| MEP1A | 96.8 | 114.4 | 103.9 | 110.1 | 98 | 105.7 | 95.2 | 96.6 |
| MEP1B | 148.6 | 190.8 | 89.7 | 94.7 | 94.3 | 92.8 | 164.6 | 196.1 |
| MEPE | 98.6 | 121.2 | 94.9 | 85.6 | 81 | 84.7 | 97.7 | 101.8 |
| MERTK | 110.4 | 126.3 | 116 | 211.8 | 196.3 | 302.1 | 117.5 | 120.2 |
| MESDC1 | 101.7 | 116.2 | 120.9 | 114.4 | 95.6 | 145 | 101.6 | 172 |
| MESDC2 | 97.8 | 111.1 | 99.1 | 93.9 | 79 | 84.3 | 97.8 | 95.9 |
| MESP1 | 257.3 | 322.4 | 143.9 | 140.2 | 125.8 | 125.9 | 225.6 | 232.1 |
| MEST | 96.8 | 119 | 95.1 | 81.6 | 82.7 | 92.4 | 94 | 116.2 |
| MEST | 356 | 436.4 | 155.1 | 120.4 | 111.8 | 116.4 | 201.3 | 278 |
| MEST | 74.9 | 82.7 | 101.8 | 94.8 | 88.8 | 84 | 82.4 | 85.8 |
| MET | 101 | 123.5 | 92.3 | 85.1 | 79.2 | 75.1 | 97.5 | 119.5 |
| METAP1 | 2663.9 | 3444.3 | 2282 | 1690.1 | 1081.9 | 2160.8 | 2204.2 | 4012.4 |
| METAP2 | 4089.5 | 4598.9 | 1797 | 2074.5 | 1532.6 | 2790.8 | 3113.9 | 5901.4 |
| METRNL | 169.5 | 204.1 | 157.3 | 136.4 | 100.8 | 130 | 155.7 | 211.3 |
| METRNL | 168.5 | 211.6 | 147.1 | 125.9 | 115.3 | 116.1 | 205.5 | 295 |
| METRNL | 102.5 | 102.2 | 91.9 | 84.6 | 82.6 | 95.1 | 115.9 | 120.4 |
| METRNL | 129.5 | 144.3 | 109.6 | 104.4 | 92.4 | 93.5 | 134.1 | 199.6 |
| METT10D | 269.5 | 336.9 | 147.1 | 173.7 | 172.9 | 181.6 | 275.8 | 238 |
| METT11D1 | 100.8 | 111.4 | 102.2 | 93.9 | 94.6 | 94.6 | 95.8 | 101.6 |
| METT11D1 | 284.4 | 302.2 | 138.2 | 127.3 | 106.7 | 124.5 | 194.3 | 351.7 |
| METT5D1 | 220.8 | 243 | 115.4 | 103.9 | 96.4 | 117.8 | 192.9 | 216.5 |
| METTL1 | 490.8 | 623.1 | 254 | 228.6 | 159.3 | 200.7 | 413 | 408 |
| METTL1 | 102.1 | 117.1 | 93.4 | 81.2 | 78.4 | 85.6 | 93.8 | 122.1 |
| METTL2A | 282.5 | 291.3 | 166.3 | 199.6 | 142.6 | 134.5 | 251.9 | 429.9 |
| METTL2A | 115.3 | 138.5 | 118.8 | 105.1 | 103.7 | 109 | 103.3 | 124.3 |
| METTL2B | 133.5 | 154.8 | 107.2 | 99.1 | 106.8 | 103.5 | 126.7 | 142.3 |
| METTL3 | 1078.5 | 1324.7 | 738.8 | 607.3 | 490.3 | 998.1 | 696.4 | 1287.1 |
| METTL4 | 210.8 | 204.9 | 196.1 | 164 | 145.5 | 196.9 | 173.1 | 264 |
| METTL5 | 3593 | 4048.3 | 2084.7 | 1871.3 | 1218.6 | 1951.9 | 3158.3 | 6129.4 |
| METTL6 | 293.4 | 366.4 | 115.1 | 115.5 | 96.6 | 125.6 | 243.5 | 361.5 |
| METTL7A | 135.1 | 151.9 | 126.6 | 106 | 106.5 | 124.7 | 122.7 | 138.4 |
| METTL7B | 824.7 | 1062.3 | 827.4 | 761.4 | 663.3 | 1184.7 | 575.6 | 826.9 |
| METTL9 | 158.1 | 177 | 114 | 109.8 | 100 | 121.7 | 156.5 | 219.2 |
| MFAP1 | 868.8 | 1108.4 | 319.8 | 361 | 288.6 | 432.5 | 725.1 | 1181 |
| MFAP2 | 97.9 | 105.3 | 83.7 | 80.6 | 79.7 | 81.9 | 103.3 | 109.1 |
| MFAP2 | 106.1 | 128.6 | 83.4 | 89.7 | 84.5 | 81 | 92.2 | 112.3 |
| MFAP2 | 86.6 | 88.1 | 92.1 | 85.7 | 81.2 | 92.9 | 86.8 | 88.4 |
| MFAP3 | 276.3 | 357 | 215.4 | 143.1 | 143.6 | 153.4 | 220.8 | 306.6 |
| MFAP3L | 101.7 | 106.6 | 84.7 | 84.6 | 87.9 | 80.8 | 99.9 | 113.3 |
| MFAP3L | 102 | 122.9 | 95.2 | 79.9 | 77.2 | 81 | 118 | 120.3 |
| MFAP3L | 74.3 | 80.3 | 95.7 | 85.4 | 83.7 | 82.9 | 86.2 | 80.8 |
| MFAP4 | 136.8 | 151.6 | 115.7 | 205.8 | 205.1 | 194.8 | 152.8 | 145.6 |

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| MFAP5 | 95.9 | 108.8 | 102.8 | 102.5 | 108.3 | 106.5 | 105 | 103.8 |
| MFGE8 | 595.1 | 748.1 | 366.6 | 471.4 | 439.9 | 418.2 | 517.3 | 446.3 |
| MFHAS1 | 146.7 | 244 | 161.9 | 160.9 | 164.9 | 223.1 | 143.1 | 192.6 |
| MFI2 | 108.4 | 126.2 | 99.3 | 107.4 | 99.8 | 100.8 | 111.4 | 98 |
| MFI2 | 160.6 | 200.6 | 137.2 | 129.1 | 131.5 | 132.6 | 132.3 | 141.6 |
| MFI2 | 104.9 | 124.3 | 106.9 | 91.9 | 83.3 | 86 | 109.9 | 118.8 |
| MFN1 | 73.6 | 101.6 | 94.8 | 84.2 | 78 | 91.5 | 77.9 | 89.9 |
| MFN1 | 123.5 | 171.8 | 123.2 | 109.7 | 107.3 | 110.8 | 117.9 | 145.4 |
| MFN2 | 317.2 | 455.7 | 312.9 | 304.2 | 266.3 | 455.8 | 279.3 | 481.2 |
| MFNG | 1770.6 | 2217 | 940.3 | 367.7 | 259.6 | 370.5 | 1308.2 | 1588.4 |
| MFRP | 71.6 | 85.3 | 92.7 | 88.9 | 82.8 | 76 | 76.3 | 81.3 |
| MFSD1 | 6073.3 | 6575.1 | 2927.2 | 4456.4 | 3073.9 | 5342.7 | 6267.7 | 9376.2 |
| MFSD2 | 400.6 | 547.9 | 277.4 | 224 | 199.6 | 287.7 | 311.8 | 455.1 |
| MFSD3 | 2240.1 | 3415.3 | 1604.5 | 701.3 | 543.4 | 658.1 | 1752 | 1197.7 |
| MFSD4 | 80.5 | 104.7 | 85.5 | 82 | 78.6 | 87.5 | 91.6 | 100.1 |
| MFSD5 | 681.7 | 821.5 | 476 | 420.4 | 294.8 | 378.2 | 674 | 899.7 |
| MFSD7 | 124 | 131 | 104.9 | 96.1 | 90.2 | 101.5 | 105.8 | 114.9 |
| MFSD8 | 287.7 | 362.6 | 282.3 | 268.6 | 235.8 | 288.1 | 262.2 | 410.8 |
| MGA | 288.4 | 408.5 | 170.6 | 201.9 | 175.8 | 282.6 | 334.5 | 471.1 |
| MGAM | 110.7 | 144.5 | 90.3 | 100.3 | 83.8 | 102.4 | 96.8 | 128.1 |
| MGAM | 105.8 | 120.5 | 75.6 | 79.9 | 70.9 | 88 | 103.4 | 123.1 |
| MGAT1 | 922.6 | 1151.2 | 828.8 | 975.6 | 872.9 | 1527.7 | 945.4 | 2076.5 |
| MGAT2 | 2753.3 | 3112.2 | 1186.8 | 1103.1 | 926.4 | 1146.6 | 2295.8 | 3576.5 |
| MGAT2 | 162.7 | 192.5 | 97.4 | 99.5 | 81.9 | 86.7 | 156.7 | 196.2 |
| MGAT3 | 83.7 | 84.4 | 94.1 | 84.7 | 79.4 | 81.7 | 70.6 | 84.9 |
| MGAT4A | 386.6 | 474.7 | 262 | 356.6 | 266.1 | 372.7 | 343.9 | 553.5 |
| MGAT4B | 143.8 | 204.7 | 161 | 145.8 | 142 | 107.7 | 144.2 | 199.2 |
| MGAT4B | 84 | 104.2 | 86.8 | 80.3 | 83.5 | 79.1 | 85.4 | 95.4 |
| MGAT4B | 288.8 | 420.1 | 300.7 | 213.3 | 214.2 | 302.4 | 220.9 | 462.8 |
| MGAT4C | 84.7 | 88.4 | 90.9 | 87.6 | 83.4 | 83.2 | 82.4 | 83.1 |
| MGAT5 | 99 | 122 | 102.6 | 102.5 | 98.2 | 103 | 119.3 | 121.1 |
| MGAT5B | 142.5 | 173.7 | 109.4 | 100.7 | 99.9 | 98.4 | 138.4 | 165.7 |
| MGAT5B | 106.3 | 113.7 | 84.8 | 83.8 | 77.6 | 83.7 | 104.3 | 111 |
| MGC10334 | 154.6 | 190.7 | 163.6 | 147.6 | 118.1 | 168 | 143.5 | 215.7 |
| MGC10433 | 1073.2 | 1364.2 | 1013 | 704.9 | 486 | 964.3 | 1034.2 | 2322.4 |
| MGC10471 | 2507.7 | 2513.2 | 1915 | 1257.7 | 1379.8 | 1626.8 | 1976.2 | 2274 |
| MGC10911 | 406.6 | 553.9 | 252.6 | 222.7 | 212.2 | 279.9 | 317.1 | 376.2 |
| MGC10992 | 418.3 | 486.9 | 302.3 | 153.9 | 177.5 | 159.1 | 303.8 | 321.1 |
| MGC10993 | 925.9 | 1293 | 781.8 | 396.5 | 315.8 | 436.3 | 743.8 | 1051.4 |
| MGC10997 | 2316.1 | 3353.3 | 1568.2 | 1730.7 | 1502.4 | 1843.1 | 2120.6 | 2365 |
| MGC11102 | 146.7 | 152.4 | 100.1 | 86.7 | 89.3 | 99.3 | 130.1 | 176.8 |
| MGC11257 | 4376.6 | 5505.1 | 2919.6 | 2597.8 | 2178 | 2628.1 | 4015.2 | 4459.7 |
| MGC11271 | 91.5 | 100.8 | 99.5 | 86.4 | 87.9 | 90.1 | 95 | 104.8 |
| MGC11332 | 101.6 | 102.5 | 101.5 | 87.6 | 87.8 | 89.2 | 101.9 | 129.2 |
| MGC11335 | 329.4 | 429.1 | 188.9 | 130.3 | 134.8 | 138.3 | 329.1 | 274.4 |
| MGC11929 | 102.3 | 138.1 | 97 | 77.3 | 91.1 | 82.8 | 102.9 | 130.6 |
| MGC12965 | 106.6 | 95.1 | 95.6 | 90.7 | 88.7 | 99 | 100.4 | 125.7 |
| MGC12966 | 98.6 | 99.3 | 89.7 | 88.9 | 91 | 91.8 | 96.1 | 121.5 |
| MGC12966 | 1286.3 | 1675.8 | 980.6 | 972.3 | 774 | 1301.6 | 962.3 | 1691.8 |
| MGC12981 | 793.3 | 1145.1 | 569.1 | 510.2 | 354.7 | 659.4 | 702.9 | 1130.8 |

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| MGC13017 | 9431.8 | 9086 | 5601 | 7321.8 | 7626.3 | 4870.3 | 8292.7 | 13508.7 |
| MGC13024 | 100.8 | 123.9 | 113.4 | 114.8 | 120.9 | 124.1 | 99.1 | 134.3 |
| MGC13034 | 138.4 | 156.2 | 107.1 | 85.7 | 77.1 | 82.9 | 123.4 | 149.2 |
| MGC13057 | 86.8 | 84.7 | 86.2 | 92.9 | 79.2 | 87.2 | 84.2 | 87.8 |
| MGC13057 | 90.3 | 109.7 | 100.3 | 99.8 | 103.6 | 99.9 | 96.8 | 102.9 |
| MGC13096 | 445.5 | 606 | 359.4 | 208.9 | 169.8 | 230.1 | 289.9 | 347.8 |
| MGC13114 | 1150.4 | 1397.3 | 868 | 498.9 | 368.1 | 525.5 | 1005.2 | 1647.7 |
| MGC13114 | 237 | 312.5 | 140.8 | 112.5 | 112.3 | 103.3 | 233.8 | 229.8 |
| MGC13125 | 377.9 | 521.7 | 236 | 180.9 | 181.3 | 204.4 | 311 | 422 |
| MGC13138 | 125 | 137 | 104.1 | 95.8 | 91.9 | 104.3 | 115.3 | 152.8 |
| MGC13170 | 135.7 | 192.3 | 135.4 | 98.1 | 94.6 | 95.9 | 141.1 | 142.7 |
| MGC13170 | 2917.7 | 3794.8 | 1668.9 | 1059 | 911.8 | 1096.1 | 2567.9 | 3529.7 |
| MGC13379 | 1226.5 | 1644.2 | 700.3 | 471.2 | 377.3 | 494.5 | 1127.2 | 1164.2 |
| MGC14141 | 1006.3 | 1338.5 | 403.8 | 369 | 324.3 | 375.9 | 854.1 | 767.8 |
| MGC14327 | 2774.9 | 3446.9 | 2241.5 | 1864.9 | 1392.1 | 2293.9 | 1860.2 | 2709.3 |
| MGC14376 | 97.7 | 94.9 | 101.9 | 108.3 | 98.4 | 102.8 | 101.5 | 164.4 |
| MGC15416 | 747.8 | 1042.9 | 380.4 | 241.2 | 181.5 | 329.8 | 551.4 | 687.5 |
| MGC15476 | 140.4 | 158.8 | 135.2 | 144.1 | 144.4 | 137.7 | 124 | 156.7 |
| MGC15523 | 188.1 | 204.2 | 222.2 | 209.8 | 209.4 | 352 | 151.4 | 189.8 |
| MGC15523 | 92.9 | 99.7 | 95.6 | 93.3 | 91.9 | 83 | 96.9 | 113.9 |
| MGC15523 | 573.8 | 757.8 | 539.3 | 415.2 | 358.3 | 517.8 | 521.3 | 859 |
| MGC15619 | 220.8 | 318.3 | 161 | 149.3 | 161.9 | 185 | 190.4 | 218.6 |
| MGC15619 | 303.3 | 465.1 | 204.8 | 232.6 | 222.5 | 247.2 | 266.9 | 315.8 |
| MGC15763 | 312.4 | 492.9 | 214.6 | 198.9 | 179 | 282.7 | 221.9 | 308.3 |
| MGC15875 | 232.2 | 292.3 | 236.8 | 284 | 275.5 | 380 | 196.4 | 264.9 |
| MGC15875 | 139.7 | 165.1 | 106.1 | 97.3 | 99.1 | 108.6 | 116.4 | 156 |
| MGC15912 | 387.9 | 516.3 | 141.3 | 251.7 | 226 | 218.9 | 326.9 | 394.8 |
| MGC16028 | 291.8 | 337.2 | 184.4 | 191 | 167.6 | 223.4 | 244.4 | 303.6 |
| MGC16169 | 325.2 | 404.6 | 203.1 | 238.6 | 193.5 | 366.6 | 269.1 | 338.6 |
| MGC16186 | 108 | 123.2 | 105.3 | 104 | 103 | 95.2 | 105.2 | 101 |
| MGC16291 | 84.7 | 86.2 | 84.6 | 92.5 | 79.5 | 82.7 | 80 | 82 |
| MGC16372 | 80.2 | 95.1 | 90.9 | 85.5 | 77.2 | 78.5 | 78.6 | 85.8 |
| MGC16703 | 18933.2 | 19867.6 | 9667.6 | 12755.3 | 12637.7 | 10637.7 | 17910.6 | 20914.8 |
| MGC16824 | 139.3 | 186.4 | 105.3 | 117.1 | 109.5 | 130.9 | 131.6 | 228.8 |
| MGC16943 | 132.1 | 156.3 | 100 | 84.8 | 85.2 | 97 | 139.7 | 156 |
| MGC17330 | 123.9 | 158.6 | 127.4 | 107.1 | 118.1 | 114.3 | 144.9 | 146.6 |
| MGC17624 | 170.4 | 178 | 115.1 | 127.7 | 126.3 | 149.9 | 135.1 | 123.1 |
| MGC17839 | 321.1 | 393.1 | 236 | 131.1 | 103.4 | 126.9 | 282.2 | 368.9 |
| MGC18079 | 224.8 | 390.8 | 150.5 | 132.4 | 122.2 | 146.4 | 226.5 | 382.9 |
| MGC18216 | 101.4 | 128 | 86 | 81.4 | 76.4 | 83.4 | 101.5 | 106.8 |
| MGC19604 | 314.8 | 350.9 | 256.2 | 178.2 | 164.3 | 179.9 | 266.8 | 349.8 |
| MGC19764 | 88.7 | 101.4 | 101.7 | 84.6 | 88.6 | 97 | 89.7 | 108.5 |
| MGC20255 | 352.1 | 463.1 | 342.6 | 286.9 | 216.7 | 348.8 | 343.5 | 876.2 |
| MGC20470 | 84.2 | 100.4 | 91.6 | 81.9 | 79.7 | 86.9 | 84 | 82.1 |
| MGC20983 | 132.6 | 162.9 | 136.9 | 124.4 | 107.2 | 108.5 | 128.7 | 139 |
| MGC21644 | 81.8 | 96.6 | 93.1 | 87.6 | 84.3 | 88.8 | 93.6 | 92.7 |
| MGC21675 | 126.8 | 124.7 | 104.2 | 97.3 | 89.3 | 85.1 | 115.7 | 126.9 |
| MGC21830 | 171 | 180.1 | 148 | 142.1 | 149.3 | 175.9 | 149.1 | 186.8 |
| MGC22001 | 92.8 | 97.6 | 94.4 | 93.6 | 95.4 | 95.5 | 96.2 | 101.4 |
| MGC22793 | 1125.5 | 1367.6 | 724.4 | 721.4 | 522 | 813.4 | 920.3 | 1257.4 |

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| MGC23280 | 169.6 | 221.8 | 103.1 | 102.8 | 85.9 | 100 | 148.6 | 173.3 |
| MGC23909 | 828.6 | 1056.5 | 306.2 | 323.3 | 197.3 | 351 | 785.2 | 1502.8 |
| MGC23985 | 86 | 87.3 | 101.9 | 93.3 | 85.5 | 82 | 87 | 98.8 |
| MGC24039 | 125.7 | 137.1 | 110.8 | 109.1 | 114 | 115.7 | 109 | 191.2 |
| MGC2408 | 603.5 | 702.5 | 324.2 | 272.4 | 186.4 | 233.2 | 526.9 | 706.9 |
| MGC24381 | 224.7 | 232.3 | 133.8 | 116.2 | 105.9 | 140.9 | 207.1 | 323.7 |
| MGC2463 | 77.4 | 78 | 101.2 | 93 | 83.2 | 88.1 | 73.6 | 72.5 |
| MGC24665 | 1148.7 | 1709.1 | 659 | 458 | 442.2 | 540.9 | 807 | 994.2 |
| MGC2474 | 121.5 | 151.6 | 110.8 | 92.8 | 96.7 | 101.1 | 126.5 | 144.8 |
| MGC24975 | 130.6 | 146.3 | 115.4 | 111.1 | 107.6 | 121 | 117.5 | 141.7 |
| MGC2654 | 572.9 | 713.4 | 400.4 | 366.4 | 295.5 | 472.9 | 520.1 | 806.1 |
| MGC26647 | 89 | 103.6 | 92.2 | 88.7 | 86.2 | 83.9 | 93.6 | 107.8 |
| MGC26718 | 84 | 91.5 | 106.5 | 106.3 | 87.2 | 97.2 | 79.1 | 100.1 |
| MGC26733 | 98.2 | 119.5 | 112.5 | 107.5 | 98.1 | 98.6 | 98.6 | 101.7 |
| MGC26816 | 74.1 | 81.1 | 88.7 | 76.7 | 82.3 | 85.8 | 79 | 81.6 |
| MGC26856 | 103.6 | 103.8 | 108 | 100.6 | 93.4 | 92.8 | 96.5 | 104.6 |
| MGC26885 | 407.4 | 526.8 | 184.8 | 132.1 | 134.8 | 161 | 415.9 | 534.9 |
| MGC26963 | 89.7 | 94.7 | 91.2 | 86.2 | 80.8 | 84.3 | 92 | 90.6 |
| MGC27016 | 69.4 | 75.4 | 87.5 | 72.1 | 83.1 | 71.1 | 72.8 | 73.3 |
| MGC27121 | 81.9 | 89.2 | 111.9 | 102.8 | 102.9 | 109.5 | 91.4 | 91.2 |
| MGC2747 | 980.1 | 1386.9 | 502.3 | 338.9 | 299.8 | 348.8 | 860.8 | 1229.6 |
| MGC2749 | 1027.8 | 1062.9 | 512.8 | 277.1 | 229.2 | 283.9 | 957.9 | 1636.1 |
| MGC2752 | 166.3 | 221.3 | 140 | 106 | 107.4 | 119.2 | 147.3 | 226.9 |
| MGC2803 | 2118.8 | 3084.9 | 433.7 | 341.4 | 430.9 | 530.8 | 2031.9 | 3089.6 |
| MGC29506 | 98.3 | 100.2 | 89 | 98.4 | 85.6 | 89.6 | 93.8 | 95.6 |
| MGC29671 | 304.3 | 314.5 | 208.8 | 151.5 | 161.1 | 217.4 | 248.7 | 356.5 |
| MGC29891 | 10832.5 | 11365.3 | 3631.3 | 4786.2 | 5153.6 | 3960.4 | 9747.8 | 9834.4 |
| MGC3101 | 84.4 | 104 | 97.2 | 90.3 | 83.3 | 84.2 | 97.1 | 111 |
| MGC3121 | 2165.7 | 2475.3 | 1047.2 | 621.5 | 585.1 | 669.9 | 1736.2 | 1477.2 |
| MGC3123 | 161.9 | 188.3 | 107.3 | 105.3 | 96 | 102.6 | 134.3 | 165.3 |
| MGC3196 | 392.7 | 495.1 | 304.4 | 246.2 | 197.3 | 268.9 | 338.6 | 601.6 |
| MGC3196 | 207.6 | 271.6 | 174.7 | 150.3 | 128.2 | 155.8 | 191.4 | 324.1 |
| MGC31967 | 187.2 | 238.2 | 141.8 | 109.4 | 100.4 | 122.3 | 184.4 | 226.2 |
| MGC3207 | 899.3 | 1097 | 876.9 | 733.1 | 620.1 | 828.1 | 713.5 | 1341.5 |
| MGC3207 | 125.6 | 130.2 | 86.6 | 96.6 | 81.3 | 79.3 | 111.2 | 142.6 |
| MGC3207 | 295.5 | 329 | 229.6 | 174.3 | 143.4 | 157.6 | 215.6 | 282.8 |
| MGC3207 | 2040.2 | 2295 | 1237.6 | 1010.4 | 746 | 1070.3 | 1472.7 | 1897.7 |
| MGC3265 | 209.6 | 236.3 | 117.3 | 109.5 | 89.5 | 120.2 | 186 | 291.5 |
| MGC33212 | 359.2 | 457 | 305.8 | 213 | 195.5 | 226.7 | 382.2 | 483.6 |
| MGC33212 | 1374.3 | 1581.8 | 1168.2 | 943.9 | 728.3 | 873.4 | 1371 | 1938.6 |
| MGC33214 | 158.3 | 180 | 123 | 93 | 85.4 | 109.3 | 134.6 | 169.8 |
| MGC33407 | 99.7 | 100.4 | 89.2 | 91.9 | 83.1 | 85.1 | 102.1 | 119.3 |
| MGC33486 | 86.8 | 102.3 | 94.2 | 78.2 | 83.7 | 80.1 | 94.4 | 110.2 |
| MGC33530 | 84.7 | 88.3 | 103.1 | 102 | 95.5 | 93.9 | 97.8 | 92.2 |
| MGC33556 | 1978 | 2264.4 | 1251.5 | 413.7 | 396.5 | 677.1 | 1376.2 | 2527.1 |
| MGC33584 | 173.6 | 210.9 | 139.1 | 151.4 | 136.2 | 215.9 | 180.8 | 260.7 |
| MGC33600 | 85.7 | 96.2 | 78.7 | 90.1 | 83.9 | 76.2 | 77.9 | 93.1 |
| MGC33648 | 331.7 | 419.5 | 254.9 | 292.4 | 210.8 | 362.3 | 279.3 | 444.4 |
| MGC33657 | 94.3 | 121.1 | 99.5 | 95 | 96 | 92.3 | 101.5 | 91.7 |
| MGC33692 | 688.9 | 959.6 | 495.6 | 614.5 | 491.1 | 484.4 | 642.2 | 803 |

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| MGC33846 | 134.2 | 154.7 | 123.9 | 117 | 100.8 | 105.7 | 149.3 | 139.9 |
| MGC33887 | 130.4 | 169.3 | 113.1 | 103 | 93.7 | 107.5 | 125.1 | 157.8 |
| MGC33894 | 73.7 | 82.5 | 86.8 | 87.3 | 80.2 | 72.4 | 76.6 | 89.7 |
| MGC34646 | 87.6 | 89 | 97.6 | 80 | 87.2 | 80.6 | 82.5 | 88 |
| MGC34647 | 77.7 | 80.1 | 101.8 | 93.7 | 88.1 | 93.9 | 81.1 | 83.4 |
| MGC34725 | 95.4 | 101.1 | 81.4 | 95.3 | 80.7 | 83.8 | 85.4 | 103.3 |
| MGC34732 | 80.7 | 90.4 | 86.6 | 78.4 | 78.4 | 83.8 | 81.8 | 85.5 |
| MGC34761 | 155.7 | 162.1 | 95.5 | 88.8 | 86.8 | 86.5 | 138.2 | 161.9 |
| MGC34774 | 81.2 | 99.4 | 95.7 | 88.4 | 81.2 | 89.2 | 88.8 | 95.8 |
| MGC34821 | 88.2 | 98.5 | 97.5 | 90.6 | 90.5 | 97.2 | 88.6 | 89.5 |
| MGC34824 | 113.6 | 132.9 | 92.7 | 87.1 | 90.9 | 94.5 | 124.5 | 119.5 |
| MGC34830 | 81.3 | 87.9 | 102.7 | 87.6 | 93.5 | 96.1 | 79.3 | 82 |
| MGC35043 | 88 | 109.8 | 95.3 | 80.8 | 87 | 94 | 96.7 | 97.7 |
| MGC35154 | 82 | 92.4 | 106.2 | 94 | 93.9 | 88.7 | 87.7 | 88.2 |
| MGC35206 | 167.9 | 181.4 | 92.5 | 96.8 | 83.1 | 96.9 | 146 | 188.3 |
| MGC35212 | 3523.4 | 4240.6 | 2472.3 | 1594.6 | 1189 | 2207.1 | 2211 | 2760 |
| MGC35295 | 94.7 | 105.1 | 96.5 | 88.7 | 86.7 | 85.2 | 95.9 | 104 |
| MGC35308 | 120.6 | 155.2 | 115.9 | 100.1 | 100.5 | 100.9 | 113.7 | 124.5 |
| MGC35361 | 172.6 | 245.1 | 138.8 | 135.9 | 121.9 | 165.4 | 136.7 | 177 |
| MGC35402 | 88.9 | 90.4 | 99.4 | 102.6 | 103.5 | 91.9 | 83 | 88.3 |
| MGC35440 | 132.4 | 167.1 | 97.5 | 90.8 | 84.9 | 90.7 | 127.8 | 157 |
| MGC39497 | 90.2 | 118.1 | 92 | 91.7 | 85.5 | 96.5 | 88.7 | 114.7 |
| MGC39581 | 110.1 | 116.7 | 96 | 91.5 | 86.2 | 92.1 | 100.8 | 111.5 |
| MGC39606 | 94.5 | 95.9 | 89.7 | 85.4 | 71.1 | 89.2 | 89.7 | 95.8 |
| MGC39633 | 325.4 | 389.5 | 186.3 | 244.4 | 226.8 | 509.1 | 233.5 | 327.6 |
| MGC39662 | 81.2 | 82.5 | 92.4 | 95.1 | 86.8 | 78.6 | 81.6 | 85.1 |
| MGC39681 | 110 | 120.8 | 98.8 | 96.1 | 84.1 | 91.1 | 124.6 | 112.3 |
| MGC39715 | 102.1 | 101.4 | 101.2 | 97.5 | 87.7 | 94.3 | 100.5 | 104.7 |
| MGC39900 | 975.4 | 1127.9 | 497.3 | 347.4 | 291.8 | 350.4 | 698 | 732.3 |
| MGC39900 | 119.7 | 137.5 | 104.6 | 100 | 89.3 | 101.1 | 108.8 | 142.1 |
| MGC39900 | 900.5 | 1146.7 | 509.8 | 360.4 | 293.8 | 424.3 | 740.5 | 796.4 |
| MGC40069 | 99.2 | 95 | 97.4 | 87.5 | 86.5 | 95.4 | 86.4 | 95.6 |
| MGC40222 | 87.5 | 121.4 | 86.6 | 96.6 | 84.3 | 90.4 | 94.9 | 100.9 |
| MGC40405 | 1079.5 | 1080.2 | 288.7 | 354.5 | 368.5 | 469.3 | 969.1 | 1384 |
| MGC40405 | 579.4 | 727.2 | 376 | 367 | 351.8 | 517.3 | 455.4 | 736.7 |
| MGC40499 | 135.7 | 175.1 | 105.7 | 99.3 | 90.3 | 93.4 | 123.8 | 134.4 |
| MGC40499 | 318.7 | 364 | 146.7 | 125.5 | 116.8 | 141.9 | 235.1 | 363 |
| MGC40579 | 232.6 | 313.2 | 176.7 | 247.4 | 198.7 | 184.4 | 201.2 | 227.4 |
| MGC4093 | 352.3 | 434.9 | 193 | 156.2 | 157.3 | 160.9 | 306.6 | 336 |
| MGC4172 | 290 | 370.1 | 211.3 | 240 | 177.2 | 217.6 | 207.4 | 266.8 |
| MGC41945 | 119.9 | 136.7 | 110.3 | 96.6 | 87.6 | 92.4 | 99.1 | 125.4 |
| MGC41945 | 103 | 115.8 | 89.3 | 85.3 | 88.2 | 90 | 99.3 | 119.7 |
| MGC42090 | 81 | 85.2 | 97.2 | 93.8 | 96 | 88.7 | 83.1 | 84.8 |
| MGC42105 | 121.2 | 132.3 | 103.3 | 109.5 | 92 | 111.8 | 123.5 | 130.6 |
| MGC42174 | 168.7 | 209.5 | 214 | 192 | 177.3 | 219.6 | 143.4 | 170.9 |
| MGC42367 | 151 | 161.4 | 149.5 | 256.6 | 218.8 | 284.5 | 123.4 | 163 |
| MGC4266 | 95.7 | 105.2 | 89.6 | 78.1 | 81.4 | 84.6 | 80.8 | 100.3 |
| MGC4268 | 353.5 | 421.1 | 165.5 | 164.2 | 152.2 | 195.7 | 300.7 | 477.8 |
| MGC4399 | 88.8 | 100 | 96.1 | 92.9 | 82 | 96 | 96.1 | 110.5 |
| MGC44328 | 88.6 | 96 | 100.2 | 85.7 | 80.7 | 95.8 | 82.9 | 98.6 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| MGC44505 | 94.3 | 100.2 | 106.2 | 100.5 | 101 | 100.4 | 84.2 | 87 |
| MGC45438 | 125.6 | 136.9 | 96 | 95.6 | 87.9 | 92.5 | 120.3 | 137.6 |
| MGC45491 | 86 | 121 | 96.5 | 89.4 | 75.5 | 84.4 | 106.5 | 105.2 |
| MGC4562 | 1552.4 | 1813.5 | 997.7 | 811.2 | 610.2 | 768 | 1180.5 | 1452.8 |
| MGC45800 | 92.8 | 100.2 | 106.7 | 90.5 | 94.4 | 95.8 | 103.8 | 101.1 |
| MGC45840 | 298.7 | 308.4 | 224.5 | 344.8 | 393 | 499.4 | 241.2 | 283.3 |
| MGC4618 | 864.5 | 872.4 | 488.8 | 371.8 | 419.6 | 497.2 | 645.8 | 624.4 |
| MGC46496 | 84.7 | 95.9 | 103.9 | 100.5 | 98.6 | 96.7 | 95.1 | 90.8 |
| MGC4655 | 91.8 | 99.1 | 94.1 | 85.4 | 77 | 85.2 | 80.6 | 92.6 |
| MGC4677 | 83.2 | 89.5 | 81.6 | 78.9 | 77.2 | 84.3 | 79.7 | 92.5 |
| MGC4677 | 3153.5 | 3397.3 | 2719.9 | 2662.5 | 1974.8 | 2841.6 | 3777.8 | 3737.4 |
| MGC4728 | 409.4 | 592.4 | 298.2 | 246.9 | 219.3 | 234.4 | 440.9 | 647.6 |
| MGC4825 | 425.2 | 589 | 199.6 | 170.2 | 139.3 | 188 | 352.2 | 532.5 |
| MGC48595 | 82.1 | 96.4 | 86.2 | 86.3 | 80.1 | 81.8 | 87.9 | 99.1 |
| MGC48628 | 87.2 | 106 | 88 | 83.2 | 82.9 | 93.9 | 91.6 | 109.1 |
| MGC48915 | 79 | 83.5 | 85.3 | 79.1 | 87.7 | 78.5 | 81.3 | 71.2 |
| MGC50273 | 71.8 | 79.1 | 84.2 | 83.5 | 80.5 | 75.3 | 79 | 77 |
| MGC50372 | 85.1 | 89 | 93.8 | 91.5 | 82.1 | 83.5 | 81.9 | 88.2 |
| MGC50559 | 112.8 | 111.4 | 90.2 | 85.3 | 80.7 | 100.5 | 113.7 | 127.8 |
| MGC50721 | 103.4 | 113.2 | 83.1 | 85.6 | 84 | 86.6 | 106.2 | 103.7 |
| MGC50722 | 88 | 107.3 | 109.7 | 91.9 | 103.4 | 102.3 | 92.9 | 94 |
| MGC50811 | 99.3 | 104.9 | 84.3 | 92.5 | 79.3 | 94.2 | 92.5 | 94.6 |
| MGC51025 | 76.4 | 91.8 | 86.7 | 87.8 | 82.8 | 90 | 86.4 | 81.7 |
| MGC5139 | 186.7 | 206.7 | 107.9 | 98.2 | 90.4 | 97.3 | 147.6 | 177.2 |
| MGC52057 | 142.8 | 176.4 | 125.1 | 108.2 | 89.2 | 108.5 | 138.3 | 149.9 |
| MGC52110 | 746.2 | 843.8 | 355.2 | 478.3 | 454.5 | 661.1 | 470.7 | 669.8 |
| MGC5242 | 935.9 | 1139.2 | 350.5 | 312.6 | 283 | 390 | 715 | 1046.4 |
| MGC52498 | 114.6 | 112.7 | 110.4 | 110.8 | 95.3 | 108.4 | 85.6 | 99.8 |
| MGC5509 | 542.6 | 710.8 | 296.8 | 290.4 | 245 | 391.6 | 469.6 | 543.4 |
| MGC57359 | 93.8 | 101.3 | 110.7 | 101.8 | 90.4 | 100.7 | 87.3 | 79.1 |
| MGC57359 | 114.1 | 118.6 | 82.1 | 80.5 | 76.5 | 81 | 95.6 | 124.2 |
| MGC59937 | 110.1 | 131.4 | 110.5 | 100.3 | 84.3 | 91.8 | 107.5 | 114.7 |
| MGC61571 | 1182.5 | 1344 | 726.8 | 556.2 | 481.6 | 701.7 | 790.6 | 948.3 |
| MGC61598 | 87.4 | 83.9 | 87.1 | 84.6 | 90.2 | 90 | 74.8 | 93.8 |
| MGC62100 | 86.5 | 95.7 | 105 | 93 | 96 | 92.8 | 84.2 | 93.2 |
| MGC7036 | 2032 | 2847 | 1198.9 | 830.9 | 781.4 | 991.5 | 1809.3 | 2684.1 |
| MGC70857 | 314.8 | 386.5 | 294.7 | 271.8 | 244.2 | 298 | 352.4 | 646.2 |
| MGC70863 | 86.9 | 93.5 | 94.8 | 96 | 85.6 | 91.3 | 92.5 | 86.9 |
| MGC70863 | 154.9 | 202.1 | 130 | 131.2 | 120.1 | 132.2 | 126.9 | 131.4 |
| MGC70870 | 94.9 | 125.9 | 86.7 | 100.8 | 94 | 87 | 105.3 | 106.6 |
| MGC70924 | 137.8 | 168.7 | 110.5 | 94.8 | 89.3 | 92.2 | 116.5 | 143.8 |
| MGC71993 | 1699.2 | 2201.7 | 1251.8 | 760.5 | 620.1 | 660 | 1601.1 | 2371.7 |
| MGC72075 | 91.5 | 104.4 | 113.4 | 106 | 93.7 | 120 | 83.4 | 91.8 |
| MGC72080 | 258.5 | 362.3 | 135 | 127.3 | 114.8 | 143.5 | 248.4 | 312.3 |
| MGC75360 | 78.2 | 105.9 | 89.4 | 79.1 | 78.5 | 87.4 | 82 | 94.5 |
| MGC87631 | 131 | 139 | 114.4 | 100 | 94.9 | 100.2 | 104.4 | 109.2 |
| MGC88374 | 74.7 | 85 | 86.5 | 85.5 | 75.5 | 81.9 | 86.5 | 90.7 |
| MGC88387 | 162.8 | 175.7 | 119.7 | 101.9 | 99.3 | 100.9 | 160.6 | 157.8 |
| MGC9712 | 114.4 | 141.4 | 91.1 | 82.7 | 81 | 87.6 | 122.9 | 120.8 |
| MGC9850 | 857.1 | 1287.7 | 631.3 | 694.1 | 505.5 | 876.1 | 890 | 1550.5 |

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|----------|---------|---------|--------|--------|--------|--------|---------|--------|
| MGC99813 | 96.6 | 115 | 104.6 | 103.5 | 107.8 | 135 | 97.4 | 109.1 |
| MGEA5 | 1014.8 | 1387 | 759.9 | 919.9 | 987.7 | 1551.8 | 1032.7 | 1209.8 |
| MGLL | 96.5 | 101.4 | 91.2 | 124.5 | 115.4 | 124.6 | 81 | 99.8 |
| MGLL | 89.8 | 107.8 | 93.5 | 99 | 88.4 | 88.3 | 87.8 | 85.8 |
| MGLL | 100.5 | 98.1 | 112.1 | 139 | 120.3 | 147.2 | 89.9 | 101.3 |
| MGMT | 1146.7 | 1460.5 | 593.4 | 471.6 | 460.4 | 497.4 | 1245.7 | 1357 |
| MGP | 92.2 | 97 | 102.8 | 86.1 | 80.5 | 88.1 | 128.9 | 152.3 |
| MGRN1 | 186 | 271.8 | 329.5 | 199.4 | 167.1 | 290 | 173 | 348.1 |
| MGST1 | 76.9 | 88.8 | 83 | 80.8 | 80.7 | 74.1 | 80.3 | 90.2 |
| MGST1 | 454.9 | 546.7 | 288.6 | 350.7 | 223.6 | 388.8 | 588.6 | 598.3 |
| MGST1 | 287.1 | 366.3 | 159.8 | 235.2 | 175 | 291.2 | 296.7 | 351 |
| MGST1 | 1666.1 | 2491.4 | 1160.3 | 1332.3 | 945.2 | 1588.5 | 2308.3 | 3221.7 |
| MGST2 | 5455.9 | 6595 | 4146.6 | 3088.5 | 2190.6 | 3257.2 | 4475 | 6520.2 |
| MGST3 | 4825.1 | 6290.6 | 4221 | 3220.1 | 2364.1 | 3090.4 | 4436.9 | 6543.1 |
| MIA | 106 | 122.4 | 90.1 | 80.3 | 79.8 | 77.7 | 105.6 | 138.5 |
| MIA2 | 77.5 | 75.9 | 88.8 | 85.6 | 76 | 74.8 | 72.1 | 73.1 |
| MIA3 | 158.7 | 175 | 145 | 119.9 | 117.5 | 135.9 | 149.4 | 163.3 |
| MIB1 | 158.7 | 218.1 | 133.2 | 165.5 | 124.2 | 225.7 | 144.7 | 267.2 |
| MIB2 | 207.1 | 206 | 254.9 | 202 | 214.9 | 343.5 | 168.6 | 228 |
| MIB2 | 170.7 | 170.5 | 196.8 | 152.4 | 157.6 | 241.1 | 147 | 211.2 |
| MICA | 138.6 | 153.8 | 101.4 | 97.4 | 96.1 | 107.2 | 126.3 | 133.1 |
| MICAL1 | 824.5 | 961.2 | 1273.1 | 920.3 | 940.5 | 1673.8 | 748.5 | 1375.9 |
| MICAL2 | 124.6 | 160.7 | 93.7 | 103.6 | 87.9 | 89.4 | 125.7 | 137.8 |
| MICALCL | 80.5 | 90.7 | 98.5 | 132.9 | 112.1 | 133.9 | 82.5 | 104.7 |
| MICAL-L1 | 121 | 186.2 | 161.8 | 135.6 | 133.5 | 159.8 | 135.6 | 166.5 |
| MICAL-L2 | 93.4 | 99.5 | 106.5 | 108.3 | 110.3 | 102.2 | 88.7 | 98 |
| MICAL-L2 | 121.5 | 142.4 | 103.4 | 91.1 | 103.5 | 107.6 | 142 | 155.1 |
| MICB | 387.3 | 552.1 | 295.3 | 247.2 | 231.4 | 251.7 | 412.5 | 399 |
| MID1 | 243 | 297.7 | 182.1 | 176 | 152 | 200.2 | 196.8 | 226.6 |
| MID1 | 75.3 | 77.7 | 80.4 | 81.1 | 82.5 | 93.9 | 74.2 | 83.3 |
| MID1 | 92.6 | 88.3 | 94.4 | 84.5 | 85.8 | 93.9 | 87.6 | 97.8 |
| MID1IP1 | 690 | 858.4 | 389.7 | 494.6 | 462.9 | 737.9 | 516.6 | 819.5 |
| MID2 | 103.9 | 143 | 104.5 | 117.7 | 103.4 | 108.1 | 101.4 | 116.3 |
| MID2 | 86 | 99.8 | 116.2 | 109.1 | 109.8 | 101.9 | 90.9 | 86.1 |
| MID2 | 122 | 155.1 | 112.7 | 136.9 | 122 | 164.6 | 124.6 | 146 |
| MIDN | 387.7 | 423.1 | 360 | 321.8 | 317.8 | 255.2 | 397.5 | 663.7 |
| MIER1 | 78.8 | 92.8 | 96.3 | 95.1 | 88 | 81 | 93.2 | 87 |
| MIER1 | 770.8 | 1044.3 | 421.2 | 414.5 | 355.7 | 535 | 710.3 | 905.9 |
| MIF | 14456.4 | 17211.8 | 6968.5 | 5012 | 3817.1 | 6340.7 | 13956.7 | 17742 |
| MIF4GD | 796.7 | 974.4 | 233.3 | 278.9 | 241.2 | 245.7 | 530.4 | 538.7 |
| MIMITIN | 2078.3 | 2529.4 | 1452.4 | 1630.5 | 1272.4 | 2533.9 | 1992.1 | 2502.2 |
| MINA | 232.6 | 303.1 | 132.6 | 125 | 112.8 | 124.9 | 179 | 191.1 |
| MINA | 131.3 | 147.7 | 85.7 | 86.6 | 78.8 | 89.8 | 110.4 | 135.5 |
| MINK1 | 104.3 | 99.3 | 101.8 | 86.7 | 88.4 | 95.1 | 78 | 115.8 |
| MINK1 | 104.7 | 142.6 | 93 | 73.1 | 73.5 | 86 | 124.5 | 130.1 |
| MINPP1 | 214.4 | 267.7 | 130.9 | 136.1 | 104.7 | 144.2 | 225.9 | 355 |
| MIOX | 80 | 96.6 | 90.9 | 95.7 | 89.7 | 89.6 | 77.6 | 90 |
| MIP | 93.2 | 99.5 | 85.2 | 83.9 | 85.8 | 85.9 | 88.1 | 96.9 |
| MIPEP | 238.1 | 295.3 | 170.7 | 172 | 128 | 187.8 | 169.9 | 255 |
| MIPOL1 | 95.4 | 103.5 | 93.1 | 91.7 | 81.2 | 86.2 | 93 | 98.4 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| MIR16 | 484.6 | 606.5 | 499.3 | 366.7 | 292.3 | 354.6 | 414.1 | 1046.5 |
| MIS12 | 523.7 | 721.9 | 303.8 | 259.7 | 240.2 | 281.6 | 506.9 | 806.8 |
| MIST | 83.2 | 87 | 98.1 | 94.6 | 85.6 | 92.1 | 91.1 | 92.6 |
| MITF | 130 | 151.2 | 107.5 | 112.9 | 106.6 | 119.6 | 123 | 155.9 |
| MITF | 85.4 | 87.5 | 89.2 | 81.2 | 72.6 | 87 | 77.6 | 84.1 |
| MITF | 270.6 | 318.9 | 144.6 | 124.3 | 111.1 | 134.3 | 262 | 375 |
| MIXL1 | 78.9 | 79.1 | 89.4 | 74.3 | 76.7 | 77.7 | 82.8 | 85.4 |
| MIZF | 160.3 | 166.3 | 109.9 | 98.4 | 95.6 | 109.6 | 133.4 | 141.7 |
| MIZF | 376.6 | 472 | 336.2 | 286.4 | 231.8 | 332.6 | 371.8 | 556.7 |
| MIZF | 509.2 | 681.9 | 322.2 | 235.5 | 203.5 | 267.3 | 431.8 | 499.1 |
| MKI67 | 136.6 | 159 | 129.4 | 106.9 | 118.4 | 149.1 | 131.6 | 149.2 |
| MKI67IP | 3159.7 | 3701.2 | 1490.2 | 1375.5 | 968 | 1822 | 2226.6 | 3387 |
| MKKS | 287.9 | 332 | 168.6 | 184.9 | 159.3 | 224.3 | 223.8 | 270.8 |
| MKKS | 917.4 | 1059.8 | 480.6 | 466.8 | 405.5 | 504.9 | 742 | 870.9 |
| MKKS | 110.1 | 120.7 | 91.5 | 84.2 | 84.4 | 82.9 | 114.6 | 131.5 |
| MKL1 | 275.1 | 373 | 490.1 | 463.9 | 358.3 | 660.6 | 226.5 | 378.8 |
| MKL2 | 115.4 | 133.8 | 99.5 | 102.2 | 95.5 | 109.4 | 107.4 | 157.5 |
| MKLN1 | 801 | 1207.9 | 657.4 | 1048.3 | 908.7 | 1436.7 | 743.6 | 1116.2 |
| MKNK1 | 104.3 | 113.7 | 105.4 | 100.7 | 90 | 98 | 90.9 | 104.9 |
| MKNK1 | 583.5 | 746.1 | 537 | 530 | 513.5 | 947.4 | 472 | 1112.1 |
| MKNK2 | 1246.6 | 1328.4 | 727.1 | 631 | 600.4 | 532.6 | 1235.6 | 1726.2 |
| MKNK2 | 153.2 | 181.8 | 175.2 | 166.8 | 149.9 | 193.4 | 147.2 | 218.9 |
| MKRN1 | 2611.9 | 3248.7 | 2031 | 2644.6 | 2169 | 3159.8 | 2207.9 | 3337.6 |
| MKRN2 | 1062.4 | 1498 | 988.8 | 1055.7 | 866.4 | 1750.5 | 929.1 | 1365.8 |
| MKRN3 | 136.7 | 150.3 | 99.2 | 99.9 | 116.8 | 106.3 | 136.3 | 146.7 |
| MKS1 | 154.5 | 171.2 | 137.9 | 133.3 | 126.1 | 164.1 | 106.2 | 125 |
| MLANA | 72.4 | 73.4 | 78.4 | 77.4 | 71.9 | 79.4 | 79 | 77 |
| MLC1 | 268.6 | 274.7 | 153.2 | 152.3 | 141 | 105.4 | 213.7 | 275.3 |
| MLC1 | 354.7 | 513.3 | 253.9 | 150.3 | 143.4 | 199 | 236 | 407.9 |
| MLC1 | 432.6 | 523.5 | 235.5 | 259.2 | 221.5 | 132.8 | 303.1 | 436.9 |
| MLC1SA | 2014.5 | 2456.5 | 1380 | 1153.1 | 1052.3 | 1167.8 | 1941.3 | 1698.4 |
| MLCK | 92.5 | 105 | 89.5 | 83.7 | 83.8 | 81.3 | 93.5 | 101.9 |
| MLF1 | 109.3 | 146.8 | 98.1 | 95.3 | 89.1 | 101.9 | 126.9 | 165.3 |
| MLF1IP | 283.3 | 300.4 | 138.1 | 135.1 | 142.7 | 172.5 | 243.4 | 357.9 |
| MLF2 | 471.9 | 673.6 | 421.7 | 299.7 | 278 | 408.5 | 433.4 | 845.9 |
| MLH1 | 971.1 | 1240.2 | 455.7 | 525.1 | 411.1 | 612.1 | 702 | 1138.8 |
| MLH3 | 191.5 | 236.6 | 132.8 | 116.7 | 121.4 | 110.2 | 161.5 | 204.2 |
| MLH3 | 109.7 | 146.1 | 140.7 | 112.4 | 109.1 | 126.2 | 108.1 | 113.1 |
| MLKL | 1384.4 | 1848.6 | 446.4 | 267.8 | 231.5 | 340.6 | 928.2 | 1054.8 |
| MLKL | 322.8 | 386.5 | 187.1 | 132.8 | 125.4 | 144.1 | 229.9 | 291.2 |
| MLL | 116.6 | 139.2 | 122.8 | 118.9 | 110.4 | 147.3 | 111.3 | 126 |
| MLL2 | 181.5 | 187.2 | 100.2 | 103.2 | 80.1 | 87.5 | 159.3 | 170.8 |
| MLL3 | 144.2 | 215.5 | 96.5 | 122.9 | 108.6 | 121.5 | 132.2 | 176.3 |
| MLL3 | 134.3 | 186.1 | 95.9 | 125.6 | 110.5 | 115.3 | 141.6 | 178 |
| MLL3 | 102.9 | 121.6 | 109.3 | 88.8 | 98.9 | 100.8 | 93.4 | 117.5 |
| MLL3 | 267.2 | 368 | 186.1 | 228.7 | 195.7 | 236.9 | 249.4 | 329.9 |
| MLL4 | 243.6 | 285 | 224.8 | 181 | 189.6 | 258.1 | 203 | 334.1 |
| MLL5 | 117.4 | 147.8 | 113.9 | 145.7 | 149.5 | 263.3 | 120.6 | 137.7 |
| MLL5 | 123.6 | 142.5 | 109.8 | 114.4 | 114.9 | 163.4 | 134.7 | 125.7 |
| MLL5 | 365.4 | 563.7 | 154.4 | 282.6 | 327.4 | 259.8 | 377 | 407.4 |

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|--------|--------|--------|-------|-------|-------|-------|-------|--------|
| MLLT1 | 86.3 | 104.7 | 101.3 | 88.2 | 88.1 | 90.7 | 95.8 | 100.2 |
| MLLT10 | 114 | 134.3 | 89.1 | 82.8 | 78.7 | 80.3 | 101.9 | 105.2 |
| MLLT10 | 686.2 | 919.1 | 397.8 | 509.9 | 436.1 | 710.1 | 570.3 | 680.5 |
| MLLT11 | 118.5 | 134.1 | 105.2 | 105.5 | 100.6 | 136.5 | 151.1 | 229.3 |
| MLLT3 | 104.6 | 111.3 | 84.5 | 89.4 | 84.8 | 91.2 | 104.1 | 127.4 |
| MLLT6 | 534.3 | 564 | 520.5 | 375.8 | 419.7 | 418.3 | 365.2 | 474.4 |
| MLLT7 | 181.5 | 218.3 | 107.5 | 98.2 | 112.1 | 118.3 | 237.5 | 361.2 |
| MLN | 84.5 | 106.6 | 91.8 | 86.8 | 77.8 | 84.7 | 102.1 | 104.1 |
| MLN | 112.4 | 122.5 | 117.7 | 85.7 | 84.3 | 78.6 | 111.1 | 128.3 |
| MLNR | 90 | 103.8 | 93.7 | 99.3 | 85.4 | 97.8 | 89.7 | 95.4 |
| MLPH | 119.4 | 137.9 | 108.1 | 84.5 | 88.9 | 87.7 | 115 | 117.8 |
| MLSTD1 | 705 | 849.6 | 313 | 283.3 | 233.4 | 328.4 | 440.3 | 648.5 |
| MLSTD2 | 560.2 | 734.6 | 496.4 | 700.3 | 523.5 | 831.9 | 467.3 | 1044.9 |
| MLX | 118.2 | 125.7 | 105.9 | 103.6 | 97.4 | 106.3 | 96.2 | 116 |
| MLX | 534.6 | 660.1 | 255.2 | 215.7 | 177.5 | 256.3 | 380.7 | 517.2 |
| MLXIP | 87.5 | 94.7 | 105.4 | 98.8 | 100.8 | 92.1 | 91.8 | 90.7 |
| MLXIPL | 134.6 | 135.7 | 123.7 | 103.2 | 99.5 | 100.3 | 101.7 | 108.8 |
| MLYCD | 225.6 | 301.3 | 148.9 | 124.4 | 122 | 146.8 | 192.1 | 215.5 |
| MLZE | 98 | 101.9 | 96 | 84.9 | 84.1 | 85.4 | 95.7 | 99.9 |
| MMAA | 131.6 | 177.9 | 96.3 | 90 | 80 | 90.8 | 146.3 | 159.9 |
| MMAB | 134.9 | 179.9 | 153.8 | 191.7 | 195.5 | 201.4 | 156.8 | 166.6 |
| MMACHC | 874.1 | 1119.1 | 524.8 | 446.9 | 286.7 | 384.9 | 492.8 | 539 |
| MMD | 1026.9 | 1210.3 | 563 | 547.7 | 436 | 660.2 | 899.6 | 1813.7 |
| MMD2 | 68.9 | 78.9 | 82.4 | 81.7 | 83.7 | 80.7 | 74.1 | 78.3 |
| MME | 93.2 | 103.4 | 97.6 | 95.6 | 81.5 | 89.4 | 88 | 88.3 |
| MME | 91.8 | 112.3 | 85.5 | 84.8 | 87.3 | 77.3 | 91.7 | 101.1 |
| MME | 89.9 | 93.1 | 79.2 | 85.2 | 76.3 | 78.4 | 80.6 | 103.1 |
| MME | 82.2 | 85.1 | 89.4 | 74.2 | 75.1 | 82.4 | 80.3 | 91.7 |
| MMEL1 | 95.4 | 120.1 | 92.3 | 79.2 | 72.1 | 87 | 105.3 | 111.4 |
| MMP1 | 113.5 | 120.3 | 90 | 94.3 | 85 | 81.9 | 107.7 | 112.2 |
| MMP10 | 82.2 | 104.8 | 87.4 | 86.5 | 75.6 | 85.4 | 91.3 | 104.8 |
| MMP11 | 82.5 | 103 | 108.7 | 115.5 | 101.5 | 115.6 | 93.2 | 97.4 |
| MMP12 | 80.6 | 82.3 | 96.5 | 88.5 | 76.3 | 86.8 | 76.7 | 78.2 |
| MMP13 | 82 | 96.8 | 94.7 | 87.8 | 87.9 | 88.9 | 87.7 | 92.4 |
| MMP14 | 128 | 157.8 | 112.7 | 97.9 | 95.4 | 109.5 | 131.3 | 145.7 |
| MMP15 | 121.7 | 146.3 | 144.1 | 133.1 | 133.1 | 144 | 121.4 | 118.7 |
| MMP16 | 75 | 84.4 | 102.4 | 90.9 | 85.4 | 88.9 | 72.7 | 67.9 |
| MMP16 | 71.6 | 85.7 | 85.5 | 79.8 | 84.6 | 82.7 | 84 | 83.2 |
| MMP16 | 119.3 | 149.4 | 93 | 95.3 | 80.8 | 96.1 | 120.9 | 136.1 |
| MMP17 | 87.3 | 95 | 98.7 | 83 | 86.2 | 90.8 | 92.1 | 110.6 |
| MMP19 | 91.9 | 106.7 | 102.4 | 96.4 | 96.5 | 93.8 | 94.9 | 104.1 |
| MMP19 | 121.1 | 147.6 | 92.5 | 94.7 | 91.9 | 91.7 | 120.5 | 118 |
| MMP2 | 138.7 | 163 | 118.1 | 122.1 | 118.3 | 118.9 | 147.1 | 141.6 |
| MMP20 | 87.7 | 92.6 | 90.2 | 88.7 | 89.8 | 105.4 | 84.3 | 95.7 |
| MMP21 | 83.6 | 87.9 | 84.1 | 81.6 | 80.3 | 98.4 | 81.9 | 88.5 |
| MMP23A | 94.7 | 91.9 | 82.3 | 89.1 | 75.8 | 84.5 | 104.3 | 107.6 |
| MMP23B | 123.2 | 131.5 | 119.4 | 118.2 | 116.7 | 119.1 | 96.8 | 109.9 |
| MMP24 | 115.4 | 132.9 | 95 | 86.9 | 83 | 102.8 | 105 | 123.6 |
| MMP25 | 79.3 | 85.9 | 101.9 | 98.2 | 86.6 | 89.3 | 87.5 | 82 |
| MMP25 | 180.1 | 191.3 | 144.7 | 124.1 | 131.5 | 123.1 | 174.3 | 170.6 |

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|--------|--------|--------|-------|-------|-------|--------|--------|--------|
| MMP26 | 84.7 | 88.4 | 95.2 | 88.9 | 76.6 | 87.7 | 89.4 | 89.3 |
| MMP27 | 102.6 | 125.2 | 96.4 | 96.4 | 91 | 90.7 | 94.2 | 106.3 |
| MMP28 | 99.7 | 108.7 | 86.5 | 83.9 | 85.3 | 90.7 | 98.5 | 109.6 |
| MMP28 | 79.6 | 106.5 | 93.1 | 79.9 | 79.6 | 90.6 | 87.7 | 91.3 |
| MMP3 | 172 | 199.7 | 113.1 | 92.6 | 97.4 | 99.5 | 145.8 | 183.7 |
| MMP7 | 79.9 | 80.3 | 85.7 | 83.3 | 78.1 | 75.1 | 79.9 | 90.2 |
| MMP8 | 76.1 | 85.9 | 87 | 70.4 | 78.8 | 78.7 | 78.4 | 86.7 |
| MMP9 | 107.3 | 130.1 | 121.4 | 444.8 | 481.5 | 473.1 | 112.7 | 161.4 |
| MMRN1 | 93.6 | 105.6 | 85.9 | 91.7 | 84.7 | 85.6 | 98.9 | 114 |
| MMRN2 | 125.1 | 130.2 | 94.2 | 89.1 | 81.4 | 87.9 | 117.5 | 113.2 |
| MMS19L | 720.2 | 965.4 | 821.8 | 729 | 588.3 | 907.8 | 537 | 788 |
| MN1 | 97.2 | 110.7 | 102.8 | 93.4 | 93.4 | 89.6 | 100.5 | 116.9 |
| MNAB | 193.6 | 254.5 | 149.3 | 139.9 | 119.7 | 169.1 | 194 | 296.8 |
| MNAT1 | 437.5 | 505.1 | 147.9 | 132.9 | 106 | 178 | 291.6 | 634.2 |
| MND1 | 1207.9 | 1505.9 | 544.2 | 378.7 | 286.2 | 344.8 | 1043.5 | 1216.1 |
| MNDA | 1969.2 | 2683.2 | 834.8 | 808.7 | 608.5 | 1366.4 | 1249.3 | 1507.9 |
| MNS1 | 611.7 | 717.8 | 260.9 | 239.8 | 230.9 | 427.5 | 384.8 | 455.4 |
| MNT | 232.1 | 262.5 | 215.4 | 253.5 | 218.2 | 265.4 | 195.7 | 302.1 |
| MOAP1 | 329.3 | 391.6 | 246.7 | 279.4 | 241.9 | 419.5 | 330.7 | 703.9 |
| MOBK1B | 122.8 | 184.6 | 94.7 | 86.7 | 92.6 | 104.8 | 135.9 | 169.4 |
| MOBK1A | 152.1 | 163.4 | 82 | 89.2 | 85.5 | 88.5 | 158.9 | 204.9 |
| MOBK2A | 519.9 | 697.5 | 298.7 | 292.2 | 251.6 | 268.3 | 571.1 | 457.6 |
| MOBK2B | 77.9 | 83.2 | 88.8 | 84.2 | 74.2 | 87.2 | 86.6 | 85.6 |
| MOBK2C | 107.6 | 116.9 | 98.2 | 100.4 | 88.8 | 88.2 | 106 | 107.4 |
| MOBK2C | 327.3 | 426.3 | 233.2 | 291.2 | 303.3 | 333.6 | 326.5 | 329.4 |
| MOBK2C | 90.2 | 103 | 93.9 | 89.7 | 80 | 80.9 | 81.1 | 88.3 |
| MOBP | 74.9 | 84.2 | 87.7 | 79.7 | 75.2 | 80.4 | 83.3 | 85.3 |
| MOBP | 84.3 | 102.2 | 95.6 | 88 | 78.4 | 89.5 | 93.6 | 97.3 |
| MOBP | 83.4 | 103.3 | 98.1 | 87.1 | 89.3 | 87.5 | 91 | 111.9 |
| MOBP | 83.2 | 100.1 | 95.9 | 89.2 | 87.7 | 84 | 91 | 97.5 |
| MOCOS | 192.4 | 249 | 222.6 | 204 | 157.3 | 210.4 | 188.7 | 252.1 |
| MOCS1 | 291.1 | 295.5 | 162.6 | 180.4 | 142.8 | 180.9 | 253.1 | 248.8 |
| MOCS1 | 90.9 | 142.3 | 107.2 | 88.3 | 84.8 | 94.5 | 100.7 | 118.2 |
| MOCS1 | 423 | 529.5 | 207.4 | 116.6 | 101.9 | 119.5 | 375.9 | 521.8 |
| MOCS2 | 88.4 | 96 | 92.2 | 83.6 | 82.3 | 85.6 | 103.3 | 94.4 |
| MOCS2 | 142.8 | 165.6 | 97.6 | 106.9 | 91.9 | 100.1 | 145.2 | 161 |
| MOCS2 | 472.7 | 612.2 | 271.4 | 276.6 | 213.4 | 449 | 337.1 | 480.9 |
| MOCS3 | 126 | 164.2 | 117.4 | 130 | 110 | 143.8 | 114.6 | 121 |
| MOG | 81.8 | 91.1 | 88.1 | 84 | 88.3 | 85.7 | 82.9 | 88.4 |
| MOGAT1 | 87.7 | 103.6 | 107.8 | 89.6 | 89.5 | 94.3 | 86.3 | 88.7 |
| MOGAT2 | 99.6 | 107.1 | 103.2 | 91.6 | 86.6 | 90.2 | 102.6 | 106.6 |
| MOGAT3 | 85.9 | 88.5 | 96.9 | 92.7 | 90 | 87.4 | 85 | 89.1 |
| MON1A | 175.6 | 238.6 | 118 | 111.9 | 92.2 | 98.8 | 163.3 | 238.9 |
| MON1B | 223 | 286.2 | 254.5 | 222.4 | 192.6 | 251.2 | 195.8 | 307 |
| MON2 | 384.5 | 458.8 | 291.8 | 414.6 | 371 | 567.5 | 366 | 515.2 |
| MORC1 | 101.3 | 112.2 | 87.5 | 98.2 | 92 | 93.6 | 96.7 | 105.5 |
| MORC2 | 386.9 | 479.8 | 421.3 | 386.3 | 296.2 | 443.7 | 304.1 | 568.7 |
| MORC3 | 294.9 | 337.3 | 167.9 | 171.8 | 157.5 | 293.2 | 244.4 | 438.9 |
| MORC4 | 127.8 | 144.1 | 108.6 | 108.2 | 92.2 | 86.2 | 118 | 168.8 |
| MORF4 | 96.5 | 104.5 | 99.9 | 85.4 | 81.1 | 90.6 | 88.7 | 105.4 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| MORF4L1 | 4991.1 | 6260.4 | 1498.4 | 1514.7 | 1095.9 | 2087.6 | 3779.8 | 6805.7 |
| MORF4L1 | 98.4 | 113.9 | 91.4 | 87.4 | 87.6 | 90.2 | 101 | 111.1 |
| MORG1 | 323.9 | 395.5 | 196.5 | 169.8 | 156.6 | 176 | 311.8 | 270.2 |
| MORN1 | 94.9 | 115.6 | 86.5 | 85.1 | 84.4 | 89 | 94.2 | 122.3 |
| MORN3 | 111.7 | 131.3 | 91.1 | 91.2 | 82 | 92.5 | 108.7 | 113.3 |
| MOS | 96.7 | 118.5 | 85 | 82.1 | 76.7 | 76.5 | 94.2 | 108.7 |
| MOSC1 | 960 | 1182.8 | 715.1 | 1376.8 | 909.8 | 1819.6 | 532.5 | 697.5 |
| MOSC2 | 154.5 | 166.2 | 102.6 | 205.4 | 127.9 | 193.5 | 135.1 | 187 |
| MOSPD2 | 191.9 | 207.1 | 98.7 | 114.3 | 98.8 | 122 | 192.5 | 303.4 |
| MOSPD3 | 354.2 | 434.8 | 337.4 | 302.7 | 265.4 | 333.3 | 360.9 | 474.6 |
| MOSPD3 | 285.3 | 364.6 | 296.8 | 222.8 | 179.3 | 246.8 | 259.8 | 412.4 |
| MOV10 | 285.6 | 310.7 | 273.6 | 197.9 | 219.8 | 283 | 222.5 | 319.8 |
| MOV10L1 | 97.5 | 120.4 | 95.8 | 105.1 | 82.7 | 88.6 | 101.3 | 118.4 |
| MOXD1 | 182.1 | 224.4 | 163.7 | 189.4 | 177 | 229.1 | 162.7 | 248.3 |
| MOXD1 | 118.9 | 142.6 | 112.9 | 130.6 | 135.2 | 144.9 | 96.1 | 128 |
| MPDU1 | 372.8 | 463.4 | 196 | 165.7 | 133.3 | 145.2 | 320.7 | 418.9 |
| MPDZ | 89.7 | 112.7 | 92 | 94.8 | 72.1 | 88.1 | 89.1 | 115.1 |
| MPFL | 145.7 | 186.2 | 111.6 | 102.4 | 102.2 | 94.4 | 151.9 | 163.5 |
| MPG | 82.8 | 82.2 | 93.3 | 91.2 | 81.4 | 94.4 | 80.5 | 89.1 |
| MPG | 131.3 | 149.5 | 119.7 | 106.3 | 97.3 | 103.8 | 121.9 | 135.6 |
| MPG | 92.7 | 106.1 | 106.8 | 95.6 | 97.1 | 108.1 | 99.2 | 89.1 |
| MPHOSPH1 | 1699.4 | 2312.7 | 923.9 | 696.4 | 694.1 | 1407.1 | 1258.9 | 1740.9 |
| MPHOSPH1 | 98 | 129.9 | 92.3 | 84.2 | 86.1 | 94.6 | 109.5 | 161.9 |
| MPHOSPH1 | 549.7 | 685.3 | 167.2 | 145 | 127.1 | 171.4 | 403.8 | 704.2 |
| MPI | 174.5 | 219.6 | 144.9 | 158.5 | 139.4 | 169.9 | 127.7 | 144.2 |
| MPL | 100.3 | 94.8 | 97.6 | 90.5 | 85.9 | 92.7 | 89.3 | 104.1 |
| MPN2 | 86.7 | 84 | 109.6 | 94.4 | 83.4 | 92.2 | 83 | 84.7 |
| MPND | 165.2 | 171 | 143 | 133.9 | 113.2 | 139.8 | 121.6 | 156.3 |
| MPO | 142.4 | 170.9 | 179.8 | 252.3 | 211.2 | 257 | 129 | 167.4 |
| MPP1 | 650.4 | 928.2 | 397.9 | 418.7 | 334.1 | 534.2 | 582.9 | 831.7 |
| MPP2 | 129.5 | 152 | 131.7 | 103.3 | 91.5 | 109.1 | 115.1 | 128.8 |
| MPP3 | 122 | 120.9 | 130.3 | 129.4 | 127.6 | 146.7 | 108.8 | 136.6 |
| MPP4 | 74.4 | 75.7 | 81.7 | 82.6 | 83.2 | 77.4 | 73.8 | 78.2 |
| MPP5 | 229.8 | 285 | 207.7 | 239.2 | 170 | 318.5 | 197.7 | 325.4 |
| MPP6 | 416.8 | 587 | 344.7 | 203.5 | 165.3 | 242.9 | 339.3 | 521.3 |
| MPP7 | 98.9 | 110.1 | 82.9 | 86.4 | 84.7 | 82.9 | 98 | 95.7 |
| MPPE1 | 1583 | 1972.5 | 1039.9 | 945.4 | 771.2 | 1225.5 | 1298.6 | 1743.4 |
| MPPED1 | 113.5 | 115.8 | 108.1 | 91.3 | 83.7 | 85.9 | 114.1 | 115.3 |
| MPPED2 | 98.1 | 107.5 | 94.2 | 77.3 | 82.2 | 77.4 | 103.3 | 102.6 |
| MPST | 141.4 | 173.7 | 110.3 | 107.2 | 101.2 | 101.4 | 129.1 | 154.8 |
| MPST | 545.6 | 696.2 | 331.7 | 272.4 | 230.2 | 292.6 | 510.6 | 703.5 |
| MPST | 166.7 | 207.4 | 110.8 | 110.1 | 96.1 | 133.8 | 157.9 | 201.9 |
| MPV17 | 990.2 | 1286.6 | 768.4 | 499.7 | 413.1 | 593 | 833.5 | 958.6 |
| MPZ | 101.2 | 125 | 100.8 | 86 | 90.5 | 103.3 | 99.3 | 125.3 |
| MPZL1 | 85.1 | 111.6 | 92.3 | 81.7 | 86.7 | 83.8 | 89.1 | 102.3 |
| MPZL1 | 150.5 | 199.4 | 149.9 | 167.5 | 149.9 | 170.3 | 152 | 187 |
| MR1 | 768.7 | 1076.6 | 501.6 | 320 | 318.5 | 451.4 | 606.5 | 878.8 |
| MRAP | 93.4 | 101.3 | 79 | 83.6 | 72 | 81.4 | 83.1 | 98.9 |
| MRAP | 102.6 | 98.5 | 95.1 | 107.2 | 94.9 | 97.9 | 91.8 | 95.5 |
| MRAS | 170.2 | 216.9 | 199.9 | 134.2 | 98.4 | 124.8 | 159.1 | 227.3 |

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|----------|---------|---------|---------|---------|--------|---------|---------|---------|
| MRC1 | 79.3 | 86.1 | 84.1 | 82.6 | 75 | 85.1 | 74.9 | 74.6 |
| MRC1L1 | 81.2 | 93.1 | 82.1 | 75.8 | 84 | 89.3 | 95.7 | 101.1 |
| MRC2 | 141.9 | 162.9 | 142.4 | 182.9 | 145.4 | 159 | 119.5 | 146.6 |
| MRCL3 | 18385.5 | 18884.5 | 13379.2 | 17134.4 | 9383.9 | 15876.9 | 19818.5 | 26397.1 |
| MRE11A | 151.8 | 171.1 | 137.1 | 116.4 | 115.2 | 103.8 | 130.5 | 163 |
| MRE11A | 319.1 | 416.5 | 151.3 | 172.6 | 160.5 | 162.4 | 250 | 261.2 |
| MRE11A | 532.7 | 686.2 | 251.4 | 223.6 | 192.1 | 368.1 | 357.8 | 518.9 |
| MRFAP1 | 4446.8 | 6096.8 | 3077.3 | 2627.6 | 1995.8 | 3283.7 | 3749 | 5330.8 |
| MRFAP1L1 | 2489.4 | 3293.2 | 1519.7 | 1506.9 | 1330.3 | 2232.7 | 2273.2 | 2832.1 |
| MRFAP1L1 | 171.3 | 209.8 | 144.2 | 125.4 | 130.9 | 127.6 | 153.8 | 192.3 |
| MRFAP1L1 | 207.1 | 219.7 | 114.7 | 95 | 102.8 | 104.3 | 152.8 | 173.9 |
| MRGPRD | 93.6 | 109.9 | 99.1 | 93.5 | 90.6 | 96.3 | 100.8 | 91.8 |
| MRGPRE | 86.2 | 99.8 | 116.2 | 91.7 | 90.1 | 89 | 96.3 | 105.9 |
| MRGPRF | 77.7 | 100.6 | 112.1 | 104.3 | 95.3 | 92.5 | 83.3 | 84.7 |
| MRGPRX1 | 79.9 | 85.1 | 75.3 | 89.1 | 77.1 | 81.9 | 73.9 | 81 |
| MRGPRX2 | 91.9 | 104.1 | 97.1 | 89.3 | 84 | 86.9 | 93.8 | 103.6 |
| MRGPRX3 | 156.2 | 168 | 117.7 | 97.8 | 87.8 | 102.5 | 146 | 150.1 |
| MRGPRX4 | 87.8 | 101.9 | 97.8 | 84.3 | 80.8 | 94.4 | 88.1 | 94.2 |
| M-RIP | 103.1 | 127.5 | 113.2 | 98.3 | 92.5 | 102.5 | 105.3 | 109.1 |
| M-RIP | 317.2 | 398.8 | 336 | 420.1 | 336 | 509.8 | 293.8 | 461.2 |
| MRLC2 | 9336 | 12085.5 | 6621 | 5446.9 | 3766.3 | 6164.7 | 7780.8 | 10573.3 |
| MRM1 | 141 | 171.3 | 105.8 | 88.2 | 84.9 | 96.5 | 114 | 127.9 |
| MRO | 76.4 | 87.5 | 84.3 | 78.1 | 78.9 | 82.6 | 81.6 | 81.5 |
| MRP63 | 340.4 | 376.9 | 211.5 | 219.1 | 200.9 | 244.4 | 286.9 | 467.7 |
| MRPL1 | 990.1 | 1120.4 | 257.2 | 226 | 200.6 | 299.6 | 718.5 | 1322.6 |
| MRPL10 | 445.8 | 544.7 | 140.8 | 143 | 138.1 | 157.4 | 446.7 | 642.4 |
| MRPL10 | 98 | 129.9 | 105.4 | 106.5 | 94.3 | 103.4 | 91.7 | 117.9 |
| MRPL11 | 1852.5 | 2182.7 | 660.9 | 710 | 589 | 750.5 | 1831.8 | 1604.6 |
| MRPL11 | 157.4 | 190.8 | 105.4 | 103.4 | 91.8 | 104 | 145.8 | 168.5 |
| MRPL11 | 2237.2 | 2895.1 | 1963.1 | 1613.1 | 1506.7 | 2204.6 | 1805.2 | 2300.1 |
| MRPL12 | 1830.1 | 2119.4 | 1558.2 | 1171.4 | 943 | 1587.3 | 1294.2 | 1731.4 |
| MRPL13 | 2844.7 | 3266.4 | 1010.7 | 941.2 | 531 | 638.9 | 2832.5 | 3470.8 |
| MRPL14 | 2637.7 | 3141.6 | 2582.9 | 2297.9 | 1873.3 | 2446.4 | 2439.2 | 2518.4 |
| MRPL15 | 3645 | 4177.6 | 923 | 872.2 | 591.1 | 920.2 | 3207.2 | 4050.9 |
| MRPL16 | 732.2 | 1070 | 242.1 | 224.5 | 198.2 | 185.1 | 617.5 | 814.5 |
| MRPL17 | 2412.2 | 3107.6 | 1286.9 | 814 | 813.1 | 809.1 | 2054.5 | 1816.9 |
| MRPL18 | 8278.9 | 9268.4 | 2068 | 2491.3 | 1764.5 | 3633.5 | 8519 | 14156 |
| MRPL19 | 433.5 | 553.9 | 145.7 | 111.6 | 124.8 | 110.9 | 371 | 540 |
| MRPL2 | 520.9 | 692.5 | 582.6 | 394.8 | 301.1 | 506.2 | 503.8 | 834.1 |
| MRPL20 | 1489.9 | 1938.7 | 803.6 | 710.2 | 507.5 | 695.1 | 1122.2 | 1281.8 |
| MRPL21 | 2560.8 | 3282.6 | 1143.1 | 998.8 | 782.1 | 1530.8 | 1728.5 | 1722.7 |
| MRPL21 | 2550.2 | 2782.9 | 1533.4 | 1535.9 | 998.1 | 1878.3 | 1947.1 | 3106 |
| MRPL22 | 2486.6 | 3312.8 | 1278.7 | 943.6 | 835.9 | 1484.1 | 2245.6 | 2425.2 |
| MRPL22 | 4129.7 | 4968.9 | 2258.1 | 1793 | 1655.6 | 2196.7 | 3811.5 | 3962.5 |
| MRPL23 | 5260.3 | 6284 | 3772 | 2517.7 | 2024.2 | 2469.1 | 4232 | 5376.6 |
| MRPL24 | 997.3 | 1208.2 | 450.9 | 367.2 | 279.4 | 573 | 807.9 | 917 |
| MRPL24 | 4100.2 | 5152.4 | 2755.9 | 2430.7 | 1672.2 | 3523.2 | 3095.8 | 3638.2 |
| MRPL27 | 1459.5 | 1840.9 | 860.8 | 815.6 | 642.6 | 1003.2 | 1331.2 | 1509.8 |
| MRPL27 | 120.1 | 114.3 | 94.3 | 89.4 | 84.9 | 90.3 | 98.1 | 109.2 |
| MRPL27 | 219.2 | 235.3 | 123 | 118.4 | 123.5 | 127.1 | 177.7 | 250.5 |

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| MRPL28 | 428 | 496.7 | 271.7 | 179.9 | 167.3 | 168 | 360.7 | 430.2 |
| MRPL3 | 156.6 | 165.1 | 112.7 | 105.8 | 99.3 | 112 | 148.6 | 221.9 |
| MRPL30 | 250.5 | 325.2 | 111.8 | 101.3 | 104.9 | 116.5 | 202.6 | 298.5 |
| MRPL30 | 904.6 | 1197.5 | 363.8 | 256.4 | 244 | 299.5 | 805.3 | 1194.9 |
| MRPL32 | 1442 | 1839.7 | 507.6 | 520.9 | 394.9 | 560.6 | 1184.4 | 1654 |
| MRPL33 | 4247.5 | 4995.9 | 1951.3 | 2018.8 | 1156.6 | 2512.2 | 2714.3 | 4323.7 |
| MRPL33 | 8477.7 | 10029.8 | 7418.6 | 6313.4 | 5356.7 | 8723.7 | 5940.8 | 6270.8 |
| MRPL34 | 1323.3 | 1526.7 | 729.4 | 559.7 | 422.1 | 635.8 | 945.4 | 910 |
| MRPL35 | 3530.3 | 4368.1 | 2580.7 | 2061.3 | 1369.8 | 2440.4 | 2830 | 4106.9 |
| MRPL35 | 577.3 | 782 | 353.8 | 330.6 | 288 | 423 | 468.1 | 517.3 |
| MRPL35 | 514.2 | 590.3 | 239.4 | 236 | 175.2 | 325.7 | 393.1 | 599.1 |
| MRPL36 | 2807.6 | 3419.8 | 1971.8 | 1600.8 | 1231.5 | 1681.9 | 2318.8 | 2480.7 |
| MRPL37 | 7852.1 | 10363.5 | 5948.2 | 4861.1 | 4141.4 | 4692.8 | 7146.1 | 6719.7 |
| MRPL38 | 877.6 | 1022 | 263.8 | 215.9 | 191.7 | 285.8 | 796.4 | 1373.2 |
| MRPL39 | 88.5 | 98.5 | 108.1 | 102.9 | 98.2 | 104.3 | 89.1 | 102 |
| MRPL39 | 2286.6 | 2827.4 | 1136.5 | 1081.5 | 758.7 | 1327.8 | 1792.8 | 2488.4 |
| MRPL4 | 87.2 | 92.3 | 104.5 | 84.2 | 89.3 | 82.4 | 86.4 | 99.9 |
| MRPL4 | 371.4 | 468.9 | 240.2 | 120.2 | 119.9 | 183.1 | 307.2 | 430.3 |
| MRPL4 | 221.1 | 322.9 | 220.5 | 149.8 | 133.4 | 157.6 | 181.4 | 263.9 |
| MRPL40 | 1348.9 | 1854.7 | 791.7 | 855.8 | 612.3 | 1080.4 | 1157.1 | 1802.3 |
| MRPL41 | 2711 | 3157.7 | 2221 | 1368.9 | 1067 | 1596.9 | 1740.8 | 1829.8 |
| MRPL42 | 559.8 | 788.5 | 192.5 | 175.6 | 151.1 | 209.2 | 411.1 | 775.2 |
| MRPL42P5 | 95 | 115.3 | 101.3 | 98.3 | 96.1 | 89.1 | 92.5 | 128.5 |
| MRPL43 | 994.2 | 1379.3 | 849.3 | 600.6 | 449 | 755.5 | 749.2 | 1112 |
| MRPL43 | 118.7 | 140.2 | 124.4 | 103 | 93.1 | 101.3 | 98.3 | 101.9 |
| MRPL43 | 428.3 | 534.3 | 254.1 | 175.5 | 132 | 173.3 | 324.8 | 364.5 |
| MRPL44 | 97.6 | 104.5 | 97 | 87.5 | 85.5 | 84.5 | 105.7 | 114.2 |
| MRPL45 | 1880.4 | 2694.8 | 608 | 543.6 | 455.8 | 748.2 | 1778.7 | 2918.7 |
| MRPL45 | 1369.4 | 1986.3 | 520.7 | 443.5 | 333.8 | 511.1 | 1246.9 | 1754.4 |
| MRPL46 | 1393 | 1966.4 | 935.3 | 775.4 | 670.5 | 1151.8 | 1261.4 | 1868.3 |
| MRPL47 | 433.8 | 587.8 | 196.7 | 168.5 | 139.4 | 202.7 | 389.9 | 661.7 |
| MRPL47 | 584.5 | 684.4 | 279 | 258.1 | 232.4 | 319.2 | 523.1 | 673.3 |
| MRPL48 | 779.9 | 984.4 | 381.7 | 248 | 220.9 | 313.5 | 667.3 | 817.1 |
| MRPL49 | 338.3 | 458.4 | 331.1 | 210.6 | 195 | 230.1 | 343.5 | 532.8 |
| MRPL50 | 2859.6 | 3140.1 | 1140.9 | 589.5 | 358.1 | 675.6 | 2567.1 | 3913.9 |
| MRPL51 | 2664.5 | 3499.2 | 1758.5 | 1489.1 | 1178.6 | 1595.5 | 2608.7 | 3677.4 |
| MRPL52 | 1143.6 | 1285.5 | 688.1 | 450.1 | 337.4 | 407.5 | 909.5 | 1101.2 |
| MRPL52 | 760.1 | 887.6 | 421.6 | 295.8 | 201.9 | 280.5 | 681.3 | 839.7 |
| MRPL53 | 893.5 | 1025.3 | 459 | 389.1 | 296.3 | 438.4 | 821.1 | 1039.7 |
| MRPL54 | 1972.8 | 2501.8 | 1194.1 | 798.9 | 714.9 | 1012.2 | 1564.3 | 2106.7 |
| MRPL55 | 2391.6 | 2655.9 | 805 | 777.5 | 519.7 | 743.5 | 2243.8 | 2786.8 |
| MRPL55 | 913.6 | 1249.1 | 852.3 | 596.7 | 503.9 | 686.4 | 747.8 | 906 |
| MRPL55 | 1347.6 | 1626.2 | 1139.1 | 938.5 | 677.7 | 991.1 | 1082.3 | 2282.3 |
| MRPL9 | 757.5 | 1113.5 | 536.8 | 415.2 | 356.6 | 593.5 | 692.8 | 1167.4 |
| MRPS10 | 4600.1 | 5710.8 | 2753.5 | 2781.6 | 1925.5 | 2983.8 | 4160 | 5509.2 |
| MRPS11 | 1513.4 | 1790.6 | 1275.1 | 1402.4 | 1103.4 | 1667.4 | 1151.2 | 1503.9 |
| MRPS11 | 848.8 | 1039.5 | 635.8 | 674.5 | 519.4 | 796.6 | 701.6 | 661 |
| MRPS12 | 4444.4 | 5868.4 | 2134.3 | 1393.8 | 997.4 | 1158.8 | 4071 | 3778.7 |
| MRPS12 | 90.7 | 118.5 | 87.2 | 91.1 | 84.3 | 93.2 | 98.7 | 103.6 |
| MRPS12 | 958.9 | 1266.7 | 796.6 | 508.3 | 357.8 | 510.2 | 798.9 | 1154.3 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| MRPS12 | 243.2 | 342.3 | 196.9 | 115 | 127.8 | 125.6 | 186.6 | 251.3 |
| MRPS14 | 233.5 | 277.3 | 165.9 | 133.5 | 109.6 | 139.2 | 173.1 | 221.6 |
| MRPS15 | 1621.9 | 2043.7 | 1341.9 | 1452.6 | 1083.9 | 1982.2 | 1338.1 | 2527.6 |
| MRPS16 | 974.7 | 1254.1 | 521.7 | 430.4 | 367.5 | 526 | 787.7 | 937.7 |
| MRPS17 | 2390.2 | 2856.8 | 1048.2 | 963.2 | 593.3 | 758.2 | 1843.6 | 2316.7 |
| MRPS18A | 550.4 | 702.7 | 340.9 | 326.9 | 302.3 | 398.2 | 595.1 | 555.6 |
| MRPS18B | 1087.6 | 1328.7 | 521.2 | 546.6 | 383.4 | 449.1 | 985.1 | 1239.2 |
| MRPS18C | 113.4 | 118.7 | 97.6 | 85.6 | 92.6 | 84.9 | 104.1 | 119.4 |
| MRPS2 | 772 | 1060.8 | 725.9 | 389.6 | 315 | 462.1 | 646.9 | 1054.2 |
| MRPS21 | 6725.1 | 7999.9 | 2119.6 | 1804.6 | 1509.3 | 1907.2 | 5379.1 | 6884.9 |
| MRPS21 | 1420.9 | 1516.3 | 889.2 | 605 | 551 | 845 | 889.4 | 1117.4 |
| MRPS22 | 3267 | 4122.3 | 2472.9 | 2188.4 | 1940.1 | 2848.7 | 2940.1 | 3996.8 |
| MRPS23 | 1203.1 | 1467.3 | 389.1 | 419 | 291.1 | 491.7 | 947.2 | 1157.4 |
| MRPS24 | 3321.3 | 4423.6 | 2768.5 | 2121.4 | 1753.8 | 2727 | 3247.8 | 4151.5 |
| MRPS26 | 835.1 | 904.3 | 380.1 | 302 | 268.9 | 354.9 | 660.3 | 626 |
| MRPS27 | 1635.9 | 2187.2 | 984.8 | 776.1 | 607.1 | 1201.9 | 1376.8 | 2299.9 |
| MRPS28 | 1549.9 | 2010.8 | 634.6 | 548 | 406 | 673 | 1410.6 | 1943 |
| MRPS30 | 2608.4 | 3315.3 | 1946 | 1639.9 | 1198.9 | 2068.4 | 2027.2 | 3570.2 |
| MRPS31 | 1370 | 1712.8 | 846.4 | 860.9 | 744.5 | 1054.7 | 1098.1 | 1363.1 |
| MRPS33 | 2856.1 | 3484.8 | 1889.8 | 1984.1 | 1238.2 | 2298.7 | 2176.5 | 3073.4 |
| MRPS33 | 280.7 | 388.1 | 157 | 168.2 | 139.2 | 212.5 | 231.5 | 294.8 |
| MRPS34 | 674.2 | 951.3 | 331.4 | 225.1 | 179.5 | 188.5 | 515.2 | 600.4 |
| MRPS35 | 1313 | 2003.7 | 446.5 | 378.4 | 304.7 | 530.3 | 1065.6 | 1872.8 |
| MRPS36 | 171.8 | 227.8 | 144.9 | 183.3 | 146.5 | 182.1 | 171.7 | 237.2 |
| MRPS5 | 936.4 | 1128.4 | 606.4 | 613 | 606.8 | 958 | 732.3 | 1069.1 |
| MRPS6 | 5644.5 | 7833.2 | 3896.3 | 4478.5 | 3965.9 | 5344.1 | 5397.4 | 6795.8 |
| MRPS7 | 1763.2 | 2149.5 | 698.7 | 603.1 | 552.1 | 844.3 | 1403.5 | 1488.4 |
| MRPS9 | 1265.1 | 1900.4 | 1378.1 | 1091.8 | 830 | 1401.9 | 1099.9 | 2042.3 |
| MRRF | 775.3 | 936.2 | 626.4 | 383.9 | 329.6 | 479.9 | 611.2 | 729 |
| MRRF | 1598.5 | 2254 | 940 | 561.8 | 462.6 | 709.3 | 1347.9 | 1629.7 |
| MRRF | 196.4 | 217.1 | 126 | 111.7 | 91 | 103.5 | 168.1 | 178.4 |
| MRS2L | 342.6 | 435.8 | 174.5 | 175.5 | 134.3 | 211.2 | 278.8 | 433.4 |
| MRVI1 | 86 | 98.3 | 87.4 | 83.5 | 82.4 | 81 | 85.5 | 94.8 |
| MRVI1 | 92.4 | 102.9 | 114.1 | 116 | 107.3 | 104.2 | 84.3 | 86.9 |
| MS4A1 | 127.1 | 153.4 | 100.1 | 95 | 95.8 | 95.2 | 119.6 | 138.1 |
| MS4A1 | 89 | 90.3 | 88.1 | 78.7 | 74.3 | 84.7 | 88.5 | 91.1 |
| MS4A1 | 82.1 | 91 | 87.9 | 84.3 | 77.7 | 87.7 | 80.3 | 82.7 |
| MS4A10 | 67.2 | 81.5 | 76.8 | 74.5 | 81.6 | 82.6 | 72.1 | 80.2 |
| MS4A12 | 83.7 | 96.1 | 90.7 | 82.7 | 88.1 | 81.6 | 91.6 | 93.6 |
| MS4A13 | 114.9 | 131.2 | 99.3 | 86.5 | 87.9 | 85.7 | 115.4 | 118.9 |
| MS4A2 | 104.2 | 112.8 | 92.2 | 94.8 | 89.2 | 105.8 | 100.2 | 113.1 |
| MS4A3 | 1428.2 | 1853.6 | 786.6 | 3619.7 | 2311.1 | 4550.4 | 802.4 | 1070.6 |
| MS4A3 | 149.9 | 175.1 | 103.3 | 162.7 | 117.6 | 174.2 | 112.8 | 158.8 |
| MS4A3 | 2903.2 | 3378.4 | 2196.3 | 7444.2 | 5206.3 | 8646.9 | 2263.1 | 2997.1 |
| MS4A4A | 91 | 101.4 | 93 | 89.2 | 81.2 | 83.5 | 93.1 | 93.9 |
| MS4A4A | 77.6 | 97 | 83.5 | 76.9 | 80.2 | 83.2 | 76.4 | 86.3 |
| MS4A4A | 171.2 | 190.4 | 121.3 | 160.9 | 121.1 | 186.7 | 145.9 | 176.3 |
| MS4A5 | 85.4 | 88.1 | 78.8 | 85.3 | 86.3 | 95 | 87.2 | 104.4 |
| MS4A6A | 3196.4 | 4174.3 | 2215.2 | 6547.6 | 5116.6 | 8774.9 | 2137.7 | 2750 |
| MS4A6A | 2267.7 | 2830.6 | 794.1 | 2789.7 | 1830.9 | 3151.9 | 1423.4 | 1912.8 |

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|--------|---------|---------|--------|---------|---------|--------|---------|---------|
| MS4A6A | 978.9 | 1360.8 | 655.4 | 1880.5 | 1478.5 | 2465.8 | 576.3 | 621.8 |
| MS4A6E | 85.5 | 86.1 | 95 | 85.3 | 76.6 | 80.3 | 75 | 88.3 |
| MS4A7 | 3620.6 | 4191.9 | 2196.6 | 3945.6 | 2741.7 | 4695.6 | 2370.1 | 3443.9 |
| MS4A8B | 80.9 | 93.7 | 93.8 | 88.5 | 89.1 | 94.6 | 81.3 | 89 |
| MSC | 126.3 | 186.1 | 134.2 | 98.9 | 101.9 | 101.7 | 999.9 | 2067.8 |
| MSH2 | 130.8 | 144.8 | 103.9 | 96 | 95.7 | 99 | 113.6 | 164.2 |
| MSH3 | 19345.7 | 19094.5 | 9055.2 | 11214.8 | 11412.6 | 9928.4 | 19118.7 | 21375.5 |
| MSH4 | 88.4 | 114.1 | 94.8 | 96.9 | 87.7 | 89.5 | 90.8 | 94.2 |
| MSH5 | 251.2 | 245.8 | 137.7 | 133.9 | 119.8 | 106.9 | 165.7 | 205.6 |
| MSH5 | 398.7 | 495.3 | 284.5 | 183.6 | 226.5 | 329.7 | 346.4 | 425.9 |
| MSH5 | 344.1 | 374.8 | 292.9 | 212.8 | 260.5 | 319.4 | 262.9 | 345.2 |
| MSH5 | 163.3 | 189.2 | 122 | 113.8 | 109.5 | 114.6 | 144.8 | 163.6 |
| MSH5 | 263.1 | 332.6 | 267.2 | 193.3 | 203 | 272.3 | 226.4 | 243.4 |
| MSH6 | 3097.3 | 3851.1 | 2035.6 | 2549.1 | 1884.5 | 3155.6 | 2446.8 | 2825.5 |
| MSI1 | 86.1 | 95.7 | 106.6 | 103.1 | 105.2 | 96.9 | 85.4 | 91 |
| MSI2 | 105.5 | 128.8 | 95.4 | 88 | 85.2 | 82.4 | 113.1 | 120.6 |
| MSI2 | 182.9 | 244.9 | 146 | 112 | 123.2 | 122.5 | 177 | 214.6 |
| MSI2 | 192.8 | 245.1 | 180.9 | 176.1 | 169.3 | 203.7 | 173.6 | 203.9 |
| MSL2L1 | 131.3 | 150.6 | 97 | 93.3 | 81.2 | 98.8 | 121.9 | 151.8 |
| MSL3L1 | 529.6 | 471.6 | 201.5 | 436.8 | 321.6 | 210.8 | 381.1 | 672.6 |
| MSL3L1 | 79.2 | 91.5 | 79.8 | 73.3 | 74.6 | 86 | 83.6 | 85.1 |
| MSL3L1 | 192.8 | 276 | 133 | 159.7 | 186.1 | 242.5 | 162 | 198.5 |
| MSL3L1 | 208.2 | 256.6 | 167.9 | 213.2 | 201.1 | 237.2 | 178.5 | 187 |
| MSLN | 85.1 | 103.8 | 105.1 | 99.5 | 97 | 91.1 | 87.3 | 88.9 |
| MSMB | 99.3 | 114 | 86.1 | 90 | 72 | 84.1 | 93.5 | 104.3 |
| MSMB | 89.2 | 104.6 | 96 | 91.7 | 79.2 | 85.3 | 83.7 | 98.8 |
| MSMB | 74.5 | 84.7 | 79.4 | 84.8 | 83.8 | 85.9 | 83.5 | 76.9 |
| MSN | 3171.7 | 4824.9 | 3931.3 | 7622.3 | 6292.8 | 9344 | 2907.7 | 4692.4 |
| MSR1 | 91.1 | 107.3 | 93.4 | 81.2 | 84 | 84.1 | 78.3 | 101.9 |
| MSR1 | 133.5 | 141.6 | 92.2 | 87 | 89.1 | 82.7 | 131.8 | 152.5 |
| MSR1 | 118.1 | 138.4 | 103.1 | 89.7 | 81.7 | 82.9 | 119.4 | 110.6 |
| MSRA | 1616.4 | 1931.7 | 1294.9 | 789.3 | 603 | 716.3 | 1412.9 | 1803.1 |
| MSRB2 | 4173.7 | 5126.6 | 2686.4 | 1838.2 | 1595.4 | 1643.1 | 3477 | 3133.3 |
| MSRB3 | 86.7 | 94.9 | 102.6 | 122.7 | 110.3 | 142.6 | 86.9 | 97 |
| MSRB3 | 92 | 88.1 | 101.6 | 186.4 | 177 | 229.9 | 89.9 | 95 |
| MSRB3 | 83 | 90.8 | 95.6 | 86.8 | 88.2 | 88.8 | 79.4 | 82 |
| MST150 | 238.4 | 332.2 | 169.3 | 144.8 | 130.1 | 147 | 236.2 | 286.9 |
| MST1R | 78.2 | 94.1 | 98.4 | 77.2 | 76.1 | 82 | 91.9 | 95.1 |
| MST4 | 930.6 | 1163.1 | 419.5 | 559 | 378.9 | 814.6 | 671.7 | 1781.2 |
| MSTP9 | 133.9 | 149 | 90.5 | 102.1 | 86.2 | 94.5 | 121.8 | 139.3 |
| MSX1 | 708.5 | 810 | 495.1 | 254 | 222.1 | 320 | 741.7 | 1329.1 |
| MSX2 | 99.3 | 134.9 | 97 | 83 | 83.1 | 104.1 | 99.7 | 135.4 |
| MSX2P | 87.4 | 104.8 | 98.8 | 90 | 76.2 | 96 | 86.1 | 92.7 |
| MT | 559.9 | 805.5 | 464.3 | 342.4 | 250 | 278.5 | 377.8 | 466 |
| MT | 133.6 | 167.1 | 98.9 | 88.5 | 89.9 | 86 | 114.8 | 157.8 |
| MT1A | 4285.9 | 5364.6 | 3097.1 | 1248.6 | 966.2 | 1306.7 | 3271.8 | 3678.4 |
| MT1B | 98 | 104 | 101.2 | 107.4 | 90.4 | 102.5 | 102.5 | 106.8 |
| MT1E | 5929.1 | 6262.8 | 3187.9 | 992.2 | 1008.7 | 949.5 | 4229 | 4242.8 |
| MT1F | 7404.9 | 8649.2 | 5295.1 | 2586.9 | 2029.3 | 1949.7 | 6649 | 8414.7 |
| MT1G | 1662.1 | 2053.3 | 1278.7 | 250.1 | 184.5 | 204.9 | 1272.5 | 1707.2 |

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|---------|--------|---------|--------|--------|--------|--------|--------|---------|
| MT1H | 551 | 593 | 235.1 | 123.4 | 120.4 | 118.2 | 392.9 | 383.7 |
| MT1M | 98 | 120.5 | 97.2 | 85.8 | 79.6 | 79.5 | 116.6 | 146 |
| MT1P2 | 110.4 | 114 | 95.3 | 85.2 | 78.2 | 82.8 | 100.8 | 118.4 |
| MT1X | 3733.2 | 4685.8 | 3282.2 | 1182.3 | 753.2 | 1020.4 | 2391.8 | 2382.2 |
| MT2A | 919.5 | 997.5 | 818.3 | 494.6 | 415.1 | 422.8 | 781.6 | 1036.3 |
| MT3 | 92.4 | 104.9 | 113.9 | 103.8 | 102.2 | 94.3 | 91.3 | 94.5 |
| MT4 | 74.4 | 87.6 | 88.1 | 80.6 | 83.6 | 74.5 | 74.2 | 80.2 |
| MTA1 | 532.3 | 706.4 | 568.1 | 502 | 402.3 | 687.9 | 439 | 1029.4 |
| MTA2 | 1019.6 | 1162.8 | 833.5 | 497.2 | 459.6 | 377.6 | 752.3 | 1365.7 |
| MTA3 | 271.1 | 388.5 | 209.4 | 172.4 | 143.3 | 193.4 | 263.5 | 324.9 |
| MTAC2D1 | 69.2 | 81.6 | 82 | 78.2 | 73.9 | 89.1 | 73.5 | 73.3 |
| MTAP | 74.6 | 91 | 103.7 | 101.5 | 82.7 | 98.2 | 82.8 | 92.5 |
| MTBP | 272.1 | 343.4 | 222.4 | 176.8 | 149.1 | 252 | 242.2 | 419.1 |
| MTCH1 | 9024.9 | 10985.3 | 6859.9 | 7082.3 | 5371.9 | 7817.8 | 8476.3 | 11118.3 |
| MTCH2 | 165.7 | 178.7 | 113.1 | 100.6 | 101.9 | 117 | 136.9 | 169.7 |
| MTCP1 | 764 | 889.4 | 545.9 | 733.8 | 530.3 | 763.5 | 608.4 | 1209.5 |
| MTDH | 2466.1 | 2846.7 | 464.7 | 502.8 | 377.5 | 817.4 | 2144.9 | 5397.3 |
| MTE | 561.7 | 680.1 | 393.5 | 189.3 | 166.9 | 205 | 436.3 | 584.5 |
| MTERF | 151.4 | 157.6 | 93.2 | 88.5 | 88 | 82.7 | 148.2 | 148.8 |
| MTERFD1 | 2322.1 | 3079.3 | 1065.6 | 589.1 | 452 | 720.4 | 1951.5 | 2828.3 |
| MTERFD2 | 110.9 | 132.9 | 103.8 | 100.6 | 103.5 | 110.8 | 125.2 | 128.4 |
| MTERFD3 | 111.5 | 118.9 | 90.3 | 91.5 | 89 | 93.1 | 96.4 | 89.5 |
| MTERFD3 | 88.6 | 101.7 | 108.4 | 98 | 93.8 | 101.8 | 80.3 | 105.4 |
| MTF1 | 273.1 | 402.4 | 348.2 | 492 | 404.6 | 550.4 | 254.2 | 656.4 |
| MTF2 | 673.9 | 660.8 | 293.8 | 213.5 | 242.7 | 279.6 | 598 | 817.9 |
| MTFMT | 80.2 | 101.4 | 97.2 | 91.1 | 92.3 | 96.6 | 87.9 | 89.8 |
| MTFR1 | 721.5 | 897.5 | 551.9 | 554.4 | 378.9 | 702 | 701.4 | 1632.6 |
| MTG1 | 183.4 | 214.2 | 165 | 130.2 | 121.4 | 130.8 | 126.6 | 152.7 |
| MTHFD1 | 345.3 | 464.5 | 287.6 | 201.8 | 196.8 | 373.1 | 229.7 | 341.7 |
| MTHFD1L | 1029.5 | 1663.9 | 1018.8 | 771.3 | 536.6 | 1097.6 | 900.1 | 1747.4 |
| MTHFD2 | 2126.5 | 2880.8 | 780.7 | 534.1 | 423.3 | 501.9 | 2005.1 | 2872 |
| MTHFD2 | 81.3 | 97.7 | 90.6 | 81.4 | 75.4 | 83.4 | 86.8 | 91.1 |
| MTHFD2 | 3540.3 | 4899.8 | 2180.6 | 1804.4 | 1478.1 | 3097.1 | 3128.5 | 5289.2 |
| MTHFD2L | 297.9 | 337.1 | 196.7 | 206.8 | 175.5 | 239.9 | 284.3 | 479.3 |
| MTHFR | 136.4 | 148 | 134.5 | 164.7 | 170.3 | 185 | 133.9 | 151.7 |
| MTHFS | 516 | 622.4 | 418.3 | 474.7 | 350.6 | 514.8 | 516.9 | 972 |
| MTIF2 | 2400.9 | 2719.7 | 896.3 | 1076.9 | 870.6 | 1687 | 1560.3 | 2292.8 |
| MTIF2 | 96.3 | 102.7 | 91.6 | 77.7 | 86.5 | 83.9 | 88.4 | 99.2 |
| MTIF3 | 1143.8 | 1544.6 | 359.7 | 392.2 | 304.8 | 481 | 1017.7 | 1292.7 |
| MTL5 | 573.6 | 791.5 | 344 | 294.3 | 255.6 | 277 | 485.1 | 452.8 |
| MTL5 | 133.9 | 144.8 | 107.6 | 106.3 | 102.6 | 112.5 | 118.3 | 161.6 |
| MTM1 | 578.7 | 797.7 | 475.5 | 398.8 | 306.1 | 643.1 | 396.1 | 624.3 |
| MTMR1 | 76.9 | 83.5 | 94.9 | 89.1 | 84.8 | 88.4 | 81.2 | 83.6 |
| MTMR11 | 1114.7 | 1588.2 | 597.7 | 290.9 | 232.1 | 306.7 | 924.2 | 989.3 |
| MTMR12 | 189.7 | 253.6 | 175.8 | 191.2 | 154.9 | 303.4 | 174.3 | 194 |
| MTMR14 | 310.4 | 363 | 204.4 | 224.6 | 173.8 | 223.7 | 263 | 354.7 |
| MTMR15 | 267.8 | 301.2 | 249.3 | 215.3 | 207.2 | 280.4 | 221.5 | 379 |
| MTMR2 | 96.5 | 136.5 | 106.6 | 88.4 | 77.5 | 99.6 | 94.5 | 140.5 |
| MTMR2 | 218.3 | 287.2 | 182.4 | 197.5 | 151.8 | 193.5 | 208.8 | 193.8 |
| MTMR3 | 403.5 | 468.6 | 376.9 | 606.5 | 465.5 | 900.7 | 379.8 | 759.6 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MTMR3 | 86 | 97.4 | 87.4 | 91.6 | 89.1 | 87.4 | 92.5 | 88.5 |
| MTMR3 | 117.8 | 166.7 | 109.5 | 119.4 | 94.6 | 122.5 | 120.5 | 150.5 |
| MTMR4 | 470 | 554.8 | 315.6 | 341.9 | 274 | 506.4 | 444.3 | 782.6 |
| MTMR6 | 578.1 | 785 | 251.8 | 249.3 | 202.5 | 365.3 | 590.9 | 1080.5 |
| MTMR7 | 93.6 | 116.8 | 91.4 | 77.7 | 84.5 | 84.3 | 93.2 | 110 |
| MTMR8 | 113 | 128.2 | 101.6 | 92.4 | 89.4 | 94.3 | 108.5 | 109.7 |
| MTMR9 | 682.3 | 939.4 | 511.6 | 470.4 | 372.1 | 515.8 | 671.6 | 919.4 |
| MTNR1A | 80.6 | 88.2 | 95.9 | 95.1 | 85.7 | 80.1 | 79.5 | 85.8 |
| MTNR1B | 76.4 | 108 | 91.3 | 93.2 | 90.7 | 89.5 | 82.6 | 85.2 |
| MTO1 | 143.3 | 167.5 | 117.6 | 103.3 | 100.1 | 108.6 | 130.9 | 175.1 |
| MTO1 | 2570 | 3266.9 | 1836.5 | 1636.3 | 1251.7 | 2216.6 | 2110.2 | 3472.2 |
| MTP18 | 355.9 | 514.1 | 233.6 | 152.3 | 168.4 | 195.2 | 290.6 | 375.7 |
| MTP18 | 219.6 | 285.5 | 183.9 | 134.1 | 129.2 | 148.8 | 173.4 | 192.1 |
| MTP18 | 2000.3 | 2381.3 | 943.1 | 647.5 | 531.6 | 700 | 1635.6 | 1475.5 |
| MTPN | 6030.4 | 7145.5 | 3309.5 | 4123.1 | 2970.9 | 5012.8 | 5386.8 | 9830.4 |
| MTR | 670.4 | 814.9 | 192.5 | 279.1 | 140.1 | 289.3 | 559.8 | 837.5 |
| MTRF1 | 251.4 | 262.7 | 126.7 | 104.5 | 110.5 | 131.4 | 189.8 | 263.5 |
| MTRF1L | 1168.7 | 1765.6 | 519.5 | 530.2 | 415.1 | 671.9 | 1128.5 | 1436.5 |
| MTRR | 111.6 | 152.2 | 89.1 | 93.2 | 72 | 89.3 | 127.9 | 136.1 |
| MTRR | 307.8 | 360.4 | 133.5 | 128.9 | 116.7 | 157.7 | 199.3 | 252.7 |
| MTRR | 1838.2 | 2515.8 | 1077.4 | 1282.2 | 790.5 | 1427.8 | 1411.5 | 2024.1 |
| MTSS1 | 188.3 | 217.6 | 107.1 | 113.7 | 133.5 | 144.9 | 177.3 | 221.4 |
| MTTP | 77.4 | 87.5 | 91.2 | 89.1 | 87.4 | 81.3 | 81.3 | 93.3 |
| MTUS1 | 74 | 83.4 | 85.1 | 79.9 | 79.2 | 81.2 | 81.3 | 84.6 |
| MTUS1 | 128.5 | 141.9 | 82.6 | 69.4 | 82.3 | 84.6 | 126.1 | 134.4 |
| MTUS1 | 96 | 104.5 | 87.9 | 79.9 | 71.9 | 97.2 | 94.8 | 117.8 |
| MTUS1 | 74.9 | 76 | 91.8 | 76 | 69.3 | 78.6 | 78.9 | 76.1 |
| MTUS1 | 80.9 | 92.4 | 87 | 87.7 | 86.2 | 80.6 | 89.3 | 90.7 |
| MTX1 | 755.8 | 998.1 | 452.2 | 277.5 | 247.3 | 244 | 635.7 | 662.7 |
| MTX1 | 1031 | 1270.3 | 755.4 | 575.3 | 457.4 | 575.7 | 967.6 | 1134.1 |
| MTX2 | 1551.2 | 1962.5 | 834.5 | 912.1 | 636.3 | 987.9 | 1205.9 | 2216 |
| MTX2 | 82 | 96.4 | 91.8 | 95.4 | 83 | 89.2 | 81.3 | 88.1 |
| MTX3 | 453.2 | 565.5 | 367.3 | 438.6 | 358.8 | 628.3 | 366 | 660.2 |
| MUC1 | 95.2 | 107.8 | 111 | 94.8 | 95 | 101 | 97 | 109.2 |
| MUC1 | 128.1 | 161 | 138.3 | 150.1 | 167.5 | 179.8 | 129 | 145.1 |
| MUC1 | 320.2 | 341.4 | 198.6 | 224.8 | 220.7 | 224.9 | 231.6 | 237.9 |
| MUC13 | 104.8 | 140.8 | 85.2 | 78.4 | 67.7 | 79.2 | 106.7 | 121 |
| MUC15 | 92.6 | 108.2 | 87.5 | 87.5 | 80.6 | 83.5 | 99.7 | 101.3 |
| MUC16 | 136.7 | 166 | 101.6 | 87.8 | 82.4 | 90 | 124.9 | 152.4 |
| MUC17 | 95.8 | 107.9 | 93.5 | 92.2 | 87 | 99.1 | 94.1 | 101.9 |
| MUC2 | 115.3 | 127 | 99.8 | 91.6 | 96.1 | 100.4 | 92.8 | 110.8 |
| MUC20 | 78.6 | 83.3 | 86.7 | 86.2 | 88.1 | 88.6 | 81.2 | 74.7 |
| MUC4 | 115.1 | 137.7 | 91 | 78 | 79.1 | 85.5 | 115.5 | 129.1 |
| MUC4 | 107.7 | 113.8 | 107.7 | 102 | 95.2 | 105.8 | 100.8 | 101.7 |
| MUC4 | 72.8 | 82.2 | 82.1 | 93.1 | 78.9 | 82.6 | 69.3 | 78 |
| MUC4 | 129.5 | 179.9 | 94.4 | 92 | 80.9 | 91.2 | 122.6 | 151.9 |
| MUC7 | 83 | 87.2 | 85.1 | 82.3 | 78.8 | 88.2 | 79.4 | 89.4 |
| MUCDHL | 84.2 | 93.2 | 89.7 | 85.8 | 83.5 | 87.3 | 76.4 | 87 |
| MUCDHL | 103.4 | 111.8 | 106.5 | 84.8 | 92.9 | 92.6 | 92.1 | 116 |
| MULK | 649.6 | 850.4 | 432.1 | 466.3 | 369.3 | 651.8 | 517.8 | 736.5 |

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|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| MUM1 | 1198.3 | 1402.8 | 1299.9 | 1167.2 | 980.6 | 1374.8 | 878.6 | 1271.2 |
| MUM1L1 | 75.8 | 82.3 | 89.4 | 82.2 | 86.3 | 81.4 | 90.5 | 88.3 |
| MUS81 | 432.9 | 524.3 | 292.3 | 299.2 | 291.6 | 443.9 | 305.3 | 612.6 |
| MUSK | 223.2 | 291.5 | 146 | 136.2 | 134.9 | 164.2 | 222.7 | 292.3 |
| MUSTN1 | 93.6 | 126.7 | 103.9 | 102.5 | 91.9 | 104.3 | 98.5 | 105.5 |
| MUT | 86.8 | 89.6 | 95.5 | 97.7 | 90 | 89.6 | 89 | 93.1 |
| MUTED | 634 | 851.5 | 346.5 | 298.8 | 227.7 | 372.8 | 514.5 | 797.1 |
| MUTYH | 127 | 166.4 | 125.3 | 111.5 | 96.1 | 111.7 | 122.9 | 154.1 |
| MUTYH | 994.5 | 1088.6 | 671.6 | 390.3 | 364.8 | 483.5 | 700.7 | 718.6 |
| MUTYH | 137.8 | 148.6 | 102.4 | 101.5 | 90.4 | 99.9 | 130 | 158.7 |
| MVD | 188.1 | 280.2 | 183.4 | 145.3 | 164.6 | 215.7 | 228.3 | 346.7 |
| MVK | 136.9 | 157 | 116.2 | 130.9 | 120.5 | 126.7 | 125.1 | 150.6 |
| MVP | 150 | 219.7 | 158.5 | 131.2 | 109 | 190.2 | 166.8 | 241.2 |
| MVP | 296.4 | 380.7 | 335.5 | 255.7 | 251.8 | 380.4 | 272.2 | 427 |
| MX1 | 417.9 | 562.8 | 410.4 | 338.4 | 352.8 | 316.2 | 323.3 | 314.1 |
| MX2 | 246.3 | 329.4 | 334.4 | 529.4 | 396 | 609.5 | 239.9 | 279.7 |
| MXD1 | 169.6 | 210.6 | 164 | 221.5 | 221.3 | 281.5 | 225.6 | 366.8 |
| MXD3 | 328.7 | 391.8 | 222.9 | 235.3 | 210.4 | 283.7 | 253.8 | 265.3 |
| MXD4 | 997.6 | 1223.9 | 913.5 | 1117.8 | 1167.5 | 1024.5 | 1018.3 | 1059.7 |
| MXI1 | 105.4 | 133.4 | 92.2 | 84.9 | 83.2 | 82.6 | 105.3 | 100.8 |
| MXI1 | 77.6 | 83.1 | 92.9 | 74 | 84.8 | 80.7 | 76.8 | 79.5 |
| MXI1 | 130.6 | 193.4 | 112.3 | 109 | 97.5 | 127 | 129.6 | 132.7 |
| MXI1 | 157.7 | 203.3 | 114.7 | 112.5 | 109.3 | 113.5 | 139.7 | 140.9 |
| MXRA5 | 143.2 | 171.5 | 122.1 | 95.7 | 106.3 | 113.8 | 129.6 | 155.3 |
| MXRA7 | 160 | 181.8 | 107.9 | 94.2 | 86.1 | 97.2 | 147.7 | 181.2 |
| MXRA7 | 211.3 | 292.9 | 153.3 | 128.3 | 122.4 | 146.7 | 165.2 | 204.5 |
| MXRA7 | 108.8 | 122.2 | 101.4 | 96.1 | 81 | 95 | 101.1 | 131.7 |
| MXRA8 | 75.5 | 87.7 | 89.3 | 82.8 | 81.5 | 85 | 80.6 | 84.6 |
| MYADM | 81.6 | 88.7 | 102.7 | 86.8 | 86.9 | 93.3 | 79.2 | 78 |
| MYADM | 238.5 | 346.7 | 129.9 | 131.6 | 114.5 | 115.9 | 199.5 | 384.9 |
| MYADM | 2815.2 | 3756.9 | 2517 | 2293.2 | 1992.3 | 2524.7 | 1950.3 | 2730.8 |
| MYADML | 118.9 | 122.9 | 98.6 | 89.4 | 88.3 | 90.5 | 98.8 | 111.5 |
| MYB | 11286.9 | 13381.3 | 9184.3 | 7672.6 | 5933 | 9639.4 | 6697.5 | 7202.9 |
| MYBBP1A | 136.9 | 179.6 | 133.6 | 119.3 | 86.8 | 113.6 | 120.4 | 150.7 |
| MYBL2 | 114.6 | 140.8 | 102.5 | 88.2 | 82.6 | 92.6 | 109.2 | 133.7 |
| MYBPC1 | 81.7 | 89.4 | 80 | 74.4 | 65.1 | 82.1 | 78.9 | 92 |
| MYBPC1 | 96.6 | 107 | 89.7 | 87.2 | 90.2 | 94.9 | 94.5 | 132.1 |
| MYBPC1 | 116.1 | 120.7 | 98.7 | 89.1 | 96.6 | 99.4 | 102.9 | 108.8 |
| MYBPC1 | 88 | 102.6 | 93.1 | 84.9 | 88.1 | 97.5 | 92.1 | 102.8 |
| MYBPC2 | 81.2 | 91.1 | 100.6 | 89.9 | 78.7 | 90.4 | 83.4 | 82.2 |
| MYBPC3 | 104.7 | 108.4 | 123.4 | 116.9 | 130.9 | 134.4 | 97.4 | 103.8 |
| MYBPH | 895.4 | 1216.1 | 537.8 | 404.2 | 406.6 | 373.1 | 410.8 | 311 |
| MYBPHL | 77 | 98.9 | 83.6 | 109.4 | 116.2 | 110.1 | 88.8 | 96.8 |
| MYC | 2203.5 | 2887.4 | 630.4 | 773.7 | 487.8 | 725 | 1631.1 | 2355.4 |
| MYCBP | 190.5 | 238.2 | 132 | 130.5 | 106.7 | 159 | 156.2 | 176.1 |
| MYCBP2 | 556.5 | 917.7 | 544.1 | 1118.1 | 847.6 | 1344.7 | 637 | 1178.3 |
| MYCBPAP | 115.8 | 125.2 | 98.4 | 102.6 | 101.9 | 116.5 | 100.6 | 124.3 |
| MYCL1 | 96.6 | 120.9 | 82.2 | 77.7 | 90.5 | 98.5 | 94.1 | 103.9 |
| MYCL1 | 141.7 | 162.4 | 107.7 | 100.6 | 97.2 | 105.1 | 131.4 | 161.4 |
| MYCL1 | 108.7 | 135.3 | 97.8 | 86 | 80.1 | 82 | 116.7 | 138.2 |

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MYCN | 107 | 113.2 | 93 | 73.7 | 80.8 | 93 | 105.2 | 122.9 |
| MYCT1 | 120.7 | 123.5 | 86.2 | 93.3 | 95 | 93.6 | 113.9 | 119.4 |
| MYD88 | 391.5 | 534.9 | 365.4 | 370.9 | 280.9 | 484.7 | 298.1 | 541.4 |
| MYEF2 | 118.4 | 141.3 | 91.3 | 90.2 | 72.2 | 81.8 | 93.6 | 131 |
| MYEOV | 108.5 | 109.8 | 88.5 | 93.2 | 92.8 | 90.7 | 105.4 | 107.4 |
| MYEOV2 | 137.1 | 161.7 | 95.6 | 96.8 | 87.2 | 90.8 | 112 | 137.9 |
| MYF5 | 91.6 | 92.4 | 96.3 | 95.3 | 95.1 | 88.4 | 83.1 | 92.2 |
| MYF6 | 96.7 | 104.4 | 97.3 | 89.8 | 81 | 86.4 | 99.1 | 106.3 |
| MYH1 | 99.3 | 109.1 | 89.3 | 92.2 | 92.4 | 85.6 | 101.4 | 104.1 |
| MYH10 | 232.3 | 313.6 | 200 | 509.3 | 442.7 | 648.3 | 190.3 | 243.3 |
| MYH11 | 89 | 97.7 | 85.1 | 84.7 | 76 | 80.2 | 90.7 | 95.5 |
| MYH11 | 85.5 | 81.2 | 100.4 | 92.3 | 83.1 | 96.1 | 84.4 | 75.3 |
| MYH13 | 78.2 | 88.2 | 82.5 | 88.6 | 73.2 | 80.5 | 87.3 | 85 |
| MYH14 | 98.6 | 120.8 | 103.2 | 85.9 | 87.3 | 103.2 | 98 | 117 |
| MYH14 | 102 | 101.9 | 95.4 | 99.2 | 95.6 | 85.7 | 89.5 | 101.2 |
| MYH16 | 161.1 | 179.3 | 106.1 | 82.6 | 87.6 | 92.5 | 168.3 | 168.2 |
| MYH2 | 82.3 | 84.4 | 88.3 | 81.9 | 73 | 88 | 79 | 78.4 |
| MYH3 | 84.6 | 86.4 | 89.9 | 89 | 95.4 | 90.7 | 83.1 | 88.2 |
| MYH4 | 227.1 | 279 | 143.2 | 149.9 | 121.7 | 153 | 224.2 | 213.9 |
| MYH6 | 95.3 | 114.5 | 114.2 | 96.4 | 102.6 | 93.9 | 99.6 | 94.3 |
| MYH7 | 105.3 | 130.3 | 110.8 | 101.3 | 96.9 | 97.5 | 107.2 | 113.1 |
| MYH7B | 103.1 | 112.3 | 87.6 | 88.9 | 86.4 | 84.3 | 100.1 | 108.3 |
| MYH8 | 81.4 | 85.5 | 88.7 | 78.9 | 81.9 | 95.2 | 79.8 | 94.8 |
| MYH9 | 3329.5 | 4621.7 | 5077.8 | 8189.8 | 6160.5 | 10539.1 | 3155.4 | 6721.3 |
| MYL1 | 97.3 | 118.8 | 101.9 | 100.2 | 87.3 | 103.2 | 99.6 | 117.5 |
| MYL1 | 80.2 | 87.2 | 87.8 | 90.9 | 86 | 81.3 | 80.7 | 89.6 |
| MYL2 | 100.5 | 102.4 | 103.5 | 99.9 | 87.2 | 92.4 | 97.9 | 97.1 |
| MYL4 | 83.1 | 94.1 | 84.3 | 82 | 76.7 | 73.9 | 76.2 | 90 |
| MYL4 | 90.8 | 98.2 | 87.7 | 88.7 | 87.1 | 86.1 | 91.3 | 91.1 |
| MYL5 | 396.2 | 502.9 | 351.1 | 297.8 | 294.2 | 366.2 | 319.8 | 555.7 |
| MYL6 | 21063.2 | 22029.7 | 17678.2 | 24265.7 | 21386 | 27961.4 | 20469 | 21099.6 |
| MYL6 | 18703.4 | 19723.4 | 17854 | 24623.3 | 21415.4 | 30714 | 18813.5 | 21850.3 |
| MYL7 | 115.7 | 142 | 102 | 89.3 | 94.1 | 102.7 | 110.9 | 116.3 |
| MYL9 | 122.5 | 138.8 | 94.4 | 89.1 | 97.8 | 77.8 | 117.1 | 131.5 |
| MYL9 | 105.6 | 125.1 | 124.8 | 161.7 | 131.3 | 192.4 | 102.8 | 140.9 |
| MYLC2PL | 97.7 | 93.4 | 91.7 | 83.8 | 84.9 | 76.8 | 85.7 | 88.9 |
| MYLIP | 772.3 | 967.5 | 414.1 | 720.8 | 672.6 | 1169.8 | 542.3 | 747.3 |
| MYLK | 84.7 | 89.8 | 124.6 | 126.4 | 117.2 | 117.1 | 92 | 94.3 |
| MYLK | 93.3 | 118.5 | 89 | 87.9 | 84.3 | 91.8 | 83.7 | 110.6 |
| MYLK2 | 132 | 143.3 | 113.4 | 91.6 | 99.7 | 91.7 | 115.3 | 117.6 |
| MYLPF | 96.8 | 108.7 | 93.2 | 81.4 | 80.7 | 84.7 | 97.4 | 105.7 |
| MYNN | 92.7 | 89.7 | 90.8 | 90.5 | 90.4 | 88.5 | 83.3 | 94.3 |
| MYO10 | 171.7 | 219.3 | 132.9 | 136.4 | 135.8 | 196.7 | 171.9 | 196.5 |
| MYO15A | 106.2 | 111 | 85.9 | 85 | 78.3 | 79.2 | 100.3 | 118.6 |
| MYO18A | 187.9 | 208.2 | 157 | 172.8 | 191.2 | 205.2 | 164.2 | 194.5 |
| MYO18A | 112.8 | 144.5 | 94.3 | 94.2 | 88.4 | 99.4 | 130.2 | 151.2 |
| MYO18B | 75.6 | 85.7 | 86.8 | 84.1 | 75.8 | 89 | 79 | 82.7 |
| MYO1A | 108.5 | 123 | 113 | 117.4 | 109.8 | 103.2 | 116.1 | 113.5 |
| MYO1B | 105 | 131.9 | 95 | 90.9 | 102.7 | 108.1 | 104 | 125 |
| MYO1C | 104.7 | 111.1 | 136 | 110.7 | 103.3 | 101.4 | 104.4 | 154.4 |

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|----------|---------|---------|--------|--------|--------|--------|---------|---------|
| MYO1C | 70.9 | 78.1 | 81.3 | 85.2 | 80.4 | 78.2 | 75.8 | 87.6 |
| MYO1C | 104.2 | 132.2 | 130 | 120.9 | 123.3 | 151.4 | 106.2 | 125.5 |
| MYO1D | 78.7 | 90.3 | 83.7 | 92.5 | 76.1 | 90.4 | 76.9 | 86 |
| MYO1E | 136.1 | 163 | 103.4 | 93.3 | 84.9 | 94.3 | 135.3 | 136.9 |
| MYO1F | 386.1 | 477 | 484.4 | 368.4 | 288.3 | 708.1 | 308.8 | 509 |
| MYO1G | 725.1 | 871.3 | 757.8 | 834.7 | 773.3 | 1363.5 | 663.2 | 1169.7 |
| MYO3A | 81.6 | 93.1 | 87 | 89.3 | 86 | 82.8 | 81.6 | 88.4 |
| MYO3B | 168.7 | 172.6 | 152.6 | 158.8 | 165.8 | 151 | 167.9 | 260.2 |
| MYO5A | 258 | 328.9 | 159.1 | 212.8 | 166.8 | 211.1 | 296.6 | 403.5 |
| MYO5B | 83.1 | 100.3 | 100.6 | 87.3 | 87.3 | 95.1 | 89.5 | 94.8 |
| MYO5C | 108.6 | 118.9 | 104.9 | 169 | 125.8 | 227.8 | 111.3 | 104.4 |
| MYO6 | 265 | 342.6 | 164.8 | 210.8 | 187.3 | 222.2 | 262.5 | 299.8 |
| MYO7A | 89.4 | 99 | 99 | 130.3 | 109.4 | 152 | 89 | 97.5 |
| MYO7B | 87.1 | 99.4 | 94.1 | 85.5 | 90.7 | 90.6 | 94 | 95.9 |
| MYO9A | 188.3 | 247.7 | 225.9 | 409.3 | 381 | 631.6 | 199.4 | 220.2 |
| MYO9B | 225.3 | 246.1 | 265.7 | 235.6 | 243.4 | 258.2 | 242.7 | 449 |
| MYOC | 81 | 94.5 | 96.3 | 75.3 | 81.8 | 74.6 | 95.1 | 88.1 |
| MYOCD | 95.7 | 112 | 111.9 | 97.8 | 83 | 98.3 | 90.1 | 101.1 |
| MYOD1 | 80.6 | 89.9 | 109.2 | 98.4 | 88.7 | 98.5 | 91 | 88.6 |
| MYOG | 100.1 | 123.8 | 91.9 | 87.5 | 81.7 | 84.6 | 100.3 | 121.3 |
| MYOHD1 | 128.4 | 148.9 | 93.7 | 91 | 95.2 | 90.4 | 117 | 123.5 |
| MYOHD1 | 99.5 | 106.8 | 105.4 | 101 | 94.5 | 97.3 | 96.1 | 99.3 |
| MYOHD1 | 208 | 255.4 | 211.2 | 185.2 | 159.8 | 199.5 | 176.9 | 253.3 |
| MYOM1 | 83.2 | 85.6 | 101.3 | 97.3 | 88.7 | 94.8 | 81.7 | 85.6 |
| MYOM2 | 118.9 | 143.9 | 113.5 | 104.6 | 94.7 | 106.9 | 128.6 | 142 |
| MYOM3 | 86.9 | 106.3 | 101.6 | 99.6 | 89.7 | 85 | 94.7 | 92.9 |
| MYOT | 94.4 | 103.8 | 95.6 | 100.6 | 92.6 | 93.4 | 89.4 | 94.3 |
| MYOZ1 | 204.2 | 274.8 | 177.1 | 153.2 | 122.2 | 146.4 | 175.7 | 187.8 |
| MYOZ2 | 77.6 | 84.4 | 93.3 | 85.5 | 86.1 | 95.2 | 83.8 | 74.5 |
| MYOZ3 | 107.4 | 128 | 112.8 | 103.1 | 105 | 100.9 | 101.4 | 97.6 |
| MYPN | 79.5 | 81.8 | 98.8 | 84.2 | 88 | 90.3 | 89.2 | 85.5 |
| MYR8 | 99.2 | 98.8 | 88.5 | 84.8 | 77.5 | 85 | 92 | 98.7 |
| MYRIP | 78.7 | 88.7 | 91 | 80.3 | 73.3 | 72.9 | 80.3 | 82.7 |
| MYST1 | 651 | 874.9 | 431.2 | 324.3 | 279.8 | 388.1 | 582.8 | 552.9 |
| MYST2 | 131.6 | 163.9 | 110.9 | 105.2 | 95.2 | 120.2 | 122.4 | 177.7 |
| MYST3 | 556.6 | 881.2 | 671.8 | 949.3 | 686.1 | 1745.4 | 644.2 | 1627.2 |
| MYST4 | 91.8 | 100.1 | 100.2 | 108.7 | 95.9 | 115.3 | 89.5 | 103.9 |
| MYT1 | 88.8 | 102.3 | 92.8 | 80.7 | 80 | 82.4 | 98.2 | 89.9 |
| MYT1L | 76.2 | 92.6 | 90.3 | 77.8 | 76.8 | 94.1 | 87 | 96.8 |
| N4BP1 | 180.8 | 184.7 | 135.5 | 148.4 | 129.5 | 150.5 | 165.8 | 190.2 |
| N4BP2 | 929.1 | 1022.3 | 417.2 | 640.4 | 635.9 | 422.4 | 747.3 | 834.9 |
| N4BP3 | 78.7 | 89.8 | 88.2 | 78.5 | 84.8 | 86.1 | 86.1 | 90 |
| N6AMT1 | 144 | 167.9 | 149.1 | 169.7 | 151.7 | 208.8 | 121.6 | 134.8 |
| NAALAD2 | 129.9 | 130.2 | 93.5 | 90.5 | 75.1 | 88.1 | 117.2 | 159.2 |
| NAALADL1 | 85.2 | 84.1 | 90.9 | 88.1 | 83.9 | 92.5 | 88.2 | 95 |
| NAALADL2 | 125.6 | 146 | 82.3 | 92 | 83.1 | 83 | 116.2 | 147.7 |
| NAB1 | 384.8 | 410.2 | 246.9 | 280 | 233.1 | 420.9 | 310.2 | 646.9 |
| NAB2 | 144.6 | 144.3 | 109 | 98 | 105 | 100.8 | 129.1 | 235 |
| NACA | 17721.2 | 19124.9 | 5577.7 | 6626.7 | 5294.3 | 8353.4 | 15198.8 | 20216.2 |
| NACAL | 102 | 116.8 | 79.6 | 75.6 | 78.4 | 75.7 | 96.1 | 114.2 |

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|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| NACAP1 | 545.6 | 705.7 | 215.9 | 143.4 | 152 | 227.1 | 502.1 | 734.3 |
| NADSYN1 | 409.2 | 418.7 | 253.9 | 258.6 | 215.4 | 297.8 | 340.6 | 586.1 |
| NAG | 154.7 | 182 | 135.4 | 154.9 | 130.4 | 165.9 | 156.3 | 162.8 |
| NAG18 | 22709.4 | 23369.2 | 10716.8 | 15659.9 | 13054.3 | 10952.8 | 23618.5 | 23809.7 |
| NAG6 | 211.3 | 220.7 | 166.6 | 165.6 | 176.9 | 203.9 | 165.7 | 157.2 |
| NAG8 | 165.8 | 219.6 | 116.9 | 363.7 | 300.7 | 316.9 | 219.3 | 213.6 |
| NAGA | 305 | 375.6 | 278.1 | 314.7 | 244.3 | 386.8 | 213.3 | 327 |
| NAGK | 448.8 | 596.8 | 319 | 359.6 | 361.8 | 476.6 | 351.7 | 497.3 |
| NAGLU | 209 | 319.4 | 155.9 | 150.6 | 127.1 | 186.9 | 195.3 | 302.2 |
| NAGPA | 314.8 | 447.7 | 320.5 | 229.4 | 205.7 | 273 | 318.6 | 506.7 |
| NAGS | 125.8 | 157.6 | 98.1 | 87.2 | 87.4 | 96 | 119.6 | 146.2 |
| NAIP | 118.3 | 124.7 | 87.5 | 89.8 | 89 | 94.2 | 120.6 | 147.6 |
| NAIP | 126.7 | 165.8 | 102.7 | 162.7 | 166.4 | 122.8 | 118.8 | 131.1 |
| NALP1 | 99.2 | 119.4 | 96.7 | 92.2 | 86.7 | 96.1 | 108.1 | 116.2 |
| NALP10 | 161.4 | 182 | 111.8 | 107.8 | 107.7 | 108.9 | 142 | 148.2 |
| NALP11 | 87.2 | 105 | 84.8 | 86.5 | 81.5 | 82.7 | 89.5 | 104.5 |
| NALP12 | 121.5 | 134.1 | 101.6 | 87.7 | 83.6 | 93.4 | 102.5 | 128.4 |
| NALP12 | 240.9 | 242 | 246.3 | 172.6 | 120.8 | 217.6 | 324.3 | 697.3 |
| NALP12 | 95 | 120.2 | 114.7 | 96.6 | 86.6 | 96 | 111.4 | 116.5 |
| NALP13 | 84.6 | 88.6 | 92.1 | 90.9 | 96.5 | 87.4 | 88.7 | 88.4 |
| NALP14 | 83.1 | 80.4 | 90.1 | 87.4 | 76.9 | 89 | 76 | 78.8 |
| NALP2 | 90.3 | 129.1 | 92.2 | 176.3 | 166.4 | 202.3 | 93.3 | 96.7 |
| NALP4 | 101 | 109.6 | 86.2 | 74.9 | 78 | 86.7 | 85.2 | 92.6 |
| NALP5 | 95.3 | 119.9 | 94.1 | 95.5 | 90.7 | 94.5 | 103.4 | 98 |
| NALP6 | 87.1 | 97.1 | 87.8 | 81.6 | 81.4 | 79.4 | 86.5 | 95.5 |
| NALP7 | 116.7 | 142.4 | 89 | 104.6 | 92.4 | 95.7 | 129.7 | 148.5 |
| NALP7 | 89.7 | 97.2 | 83.4 | 82.4 | 82.8 | 94.9 | 92 | 108.3 |
| NALP7 | 90.1 | 88.9 | 91.9 | 98.5 | 85.2 | 85.3 | 88.4 | 101.7 |
| NALP9 | 87.4 | 95.7 | 83.3 | 83.8 | 72.7 | 75.2 | 91.7 | 96 |
| NANOG | 87 | 92.5 | 93.9 | 84.7 | 88.6 | 85.8 | 85.7 | 97.4 |
| NANOS1 | 118 | 150.7 | 111.4 | 108.8 | 98.5 | 102.6 | 116.1 | 135.6 |
| NANOS1 | 86.6 | 92.5 | 97.7 | 95 | 83.4 | 93.8 | 94.5 | 100.5 |
| NANOS1 | 97.1 | 107.4 | 87.2 | 85.9 | 80.8 | 84.1 | 94.8 | 100.1 |
| NANOS2 | 96.7 | 109.5 | 93.9 | 79.6 | 79.4 | 84.6 | 89.4 | 96.2 |
| NANP | 210.1 | 291.4 | 110.9 | 105 | 104.1 | 129.1 | 187.6 | 264.7 |
| NANS | 934.2 | 1169.3 | 299.3 | 163.7 | 139.8 | 203.9 | 800.9 | 1079.3 |
| NAP1L1 | 552.1 | 758.2 | 269.9 | 260.4 | 258.3 | 455.9 | 415.9 | 813.6 |
| NAP1L1 | 98.6 | 108.5 | 83.3 | 81.9 | 75.3 | 88.1 | 100.1 | 128.9 |
| NAP1L2 | 87 | 110.4 | 103.7 | 97.7 | 94.7 | 88.3 | 87.9 | 90 |
| NAP1L3 | 139.7 | 170.8 | 117.9 | 103.7 | 102.1 | 129.6 | 132.7 | 160.1 |
| NAP1L4 | 2889.2 | 4140.3 | 2442.1 | 2050.9 | 1757.5 | 3110.9 | 2451.4 | 3670.5 |
| NAP1L5 | 430.6 | 487.2 | 322.9 | 273.2 | 204.3 | 335.3 | 354.7 | 516.7 |
| NAP5 | 75.3 | 81.9 | 107.3 | 84.7 | 82.9 | 97.1 | 70.4 | 83 |
| NAP5 | 121.4 | 121.3 | 83.1 | 80.4 | 76.3 | 79.1 | 101.5 | 138.6 |
| NAP5 | 70.2 | 88.4 | 84 | 73.8 | 68.3 | 69.1 | 79.1 | 85.1 |
| NAPA | 159.5 | 198.1 | 142.8 | 107.9 | 108.6 | 106.8 | 152.9 | 234.8 |
| NAPB | 246.1 | 251.1 | 199.5 | 315.5 | 263 | 320.8 | 214 | 287.5 |
| NAPE-PLD | 178.4 | 244.1 | 126.2 | 83.5 | 97.9 | 112.4 | 170 | 216.9 |
| NAPG | 235.2 | 292.8 | 121.7 | 110.1 | 112.7 | 129.6 | 204.1 | 326.8 |
| NAPRT1 | 4263.1 | 5204.5 | 2276.6 | 1827.7 | 1708.9 | 1991.8 | 3361.6 | 3022.8 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| NAPSA | 240.5 | 299.7 | 202.4 | 157.6 | 162.3 | 202.7 | 208.5 | 228.3 |
| NAPSB | 1656.3 | 2090 | 1444 | 1260.8 | 1067.3 | 1582.5 | 1080.7 | 1644.7 |
| NARF | 508.3 | 683.4 | 436.4 | 505.2 | 524.6 | 668.7 | 638.9 | 848.1 |
| NARFL | 266.1 | 307.5 | 180.1 | 146.3 | 125.3 | 211.1 | 265.6 | 315.1 |
| NARG1 | 375.8 | 454 | 269.3 | 271.9 | 212 | 383.8 | 307.1 | 459.3 |
| NARG1L | 414.9 | 400.2 | 212.3 | 243.4 | 214.8 | 267.7 | 311.8 | 546.5 |
| NARG1L | 246.8 | 320.9 | 161.5 | 139.6 | 130.9 | 158.4 | 186.4 | 222.5 |
| NARG1L | 97.1 | 114.8 | 104.4 | 95 | 95.9 | 97 | 96.9 | 115 |
| NARG2 | 176.2 | 210.8 | 109.1 | 100.4 | 91.9 | 108 | 177.6 | 227.4 |
| NARG2 | 238.6 | 273.6 | 124.3 | 151.9 | 110.5 | 129.7 | 167.3 | 264.2 |
| NARG2 | 108.1 | 143.7 | 115.9 | 129.1 | 111.8 | 133.7 | 123.3 | 159.4 |
| NARS | 4799.3 | 6514.6 | 1738.7 | 2436.5 | 1478 | 3200.7 | 4278.2 | 5956.5 |
| NARS2 | 443.6 | 545.6 | 210.4 | 210.8 | 183.5 | 301 | 312.4 | 529.6 |
| NASP | 114.6 | 126.3 | 95.3 | 88.8 | 98.7 | 94.6 | 111 | 127.1 |
| NASP | 829.6 | 1105.6 | 518 | 638.5 | 620.1 | 839.5 | 648.3 | 751.4 |
| NAT1 | 200.1 | 213.2 | 119.1 | 95.8 | 88.3 | 113.5 | 142.3 | 186 |
| NAT1 | 763.5 | 1078.1 | 430.2 | 296.7 | 253.3 | 420.8 | 571.4 | 780.4 |
| NAT10 | 2109.5 | 2744.6 | 1668.5 | 1496.4 | 1162 | 1600.4 | 1729.1 | 1570.5 |
| NAT11 | 132.6 | 145.3 | 137.4 | 114 | 103.7 | 129.6 | 122.5 | 154.9 |
| NAT12 | 237.1 | 287.5 | 122.6 | 119 | 95.4 | 139.5 | 207.1 | 299.2 |
| NAT13 | 413.2 | 525.1 | 175.9 | 152.1 | 133.1 | 184.6 | 367.8 | 791.8 |
| NAT2 | 85.5 | 89.3 | 92.2 | 90.3 | 84.2 | 90.3 | 88.2 | 93.4 |
| NAT5 | 4799.4 | 6584.9 | 3754 | 4230.6 | 3124.9 | 4801.6 | 3968 | 4296 |
| NAT5 | 79.5 | 97.7 | 101.1 | 88 | 92.4 | 88.7 | 88.4 | 79.5 |
| NAT5 | 3022 | 4132.4 | 2139.2 | 2175.2 | 1547.9 | 2761.4 | 2300.2 | 2856.3 |
| NAT6 | 239.1 | 280 | 257.4 | 352.5 | 282.4 | 378.3 | 209.4 | 383.4 |
| NAT8 | 86.2 | 90.1 | 90.7 | 95 | 96 | 92.7 | 82 | 79.3 |
| NAT9 | 576.7 | 590.1 | 452.3 | 381.9 | 347.3 | 498.6 | 456 | 628.8 |
| NAV1 | 114.6 | 150.3 | 110.1 | 103.1 | 90 | 115.7 | 109.1 | 124.3 |
| NAV2 | 101.2 | 120.6 | 95.4 | 99.1 | 91.5 | 87 | 105.3 | 99.4 |
| NAV2 | 123.8 | 158.6 | 113.1 | 92.7 | 90.9 | 94.2 | 109.1 | 131.5 |
| NAV3 | 210.8 | 257.7 | 157.2 | 258.4 | 216.9 | 412.1 | 145.4 | 164.2 |
| NBEA | 80.6 | 68.4 | 113.7 | 93.3 | 67.7 | 76.8 | 92.7 | 93 |
| NBEAL1 | 83.6 | 85.3 | 86.8 | 91.8 | 78 | 92 | 74.7 | 89.5 |
| NBL1 | 362.1 | 455.3 | 542.1 | 318.7 | 236.4 | 331.8 | 409.5 | 710.5 |
| NBL1 | 214.6 | 304.5 | 197.6 | 145.7 | 135 | 183.9 | 230.8 | 381 |
| NBLA1038 | 86.6 | 107.9 | 88.3 | 102.8 | 101.5 | 116.6 | 99.5 | 123.3 |
| NBN | 96.3 | 120.1 | 88.9 | 83.3 | 82.8 | 85.6 | 92.2 | 88.3 |
| NBN | 163.9 | 226.8 | 126.8 | 113.1 | 96.6 | 139.8 | 149.2 | 188.2 |
| NBPF1 | 188.9 | 216.3 | 128.7 | 133.3 | 147.2 | 124.3 | 146.7 | 202.8 |
| NBPF1 | 120.8 | 143.1 | 108.6 | 89.5 | 88 | 97.7 | 113.2 | 138.7 |
| NBPF10 | 2090.9 | 4045.3 | 798.3 | 1590 | 1819.7 | 1646.3 | 2368.8 | 2981.7 |
| NBPF11 | 691.9 | 874.2 | 491.6 | 615 | 592.1 | 1100.8 | 534.7 | 973.7 |
| NBPF14 | 171.5 | 212.3 | 141.4 | 134.1 | 156.7 | 207.4 | 139.1 | 172.3 |
| NBPF15 | 79.8 | 99.1 | 83.7 | 84.5 | 73.6 | 77 | 87.1 | 84 |
| NBPF20 | 1809.4 | 4017.6 | 1066.4 | 2865.5 | 2979.9 | 2239.8 | 2229 | 2215.9 |
| NBPF3 | 257.7 | 324.7 | 212.3 | 236.3 | 234.6 | 353.3 | 201.1 | 396.4 |
| NBPF3 | 108.3 | 123.4 | 108.9 | 100.8 | 88.5 | 92.3 | 104.1 | 120.5 |
| NBPF7 | 89.5 | 105.7 | 94 | 93 | 83.6 | 87 | 98.1 | 95.4 |
| NBPF9 | 93 | 103.1 | 97.5 | 111.2 | 107.6 | 92.9 | 94.5 | 93 |

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|---------|--------|---------|--------|--------|--------|--------|--------|---------|
| NBR1 | 115.8 | 140.5 | 106.7 | 123.2 | 120.2 | 92.7 | 105.5 | 113.9 |
| NBR1 | 84 | 100.2 | 100.2 | 95.1 | 95 | 90.3 | 78.5 | 92.2 |
| NBR2 | 225.6 | 286 | 105.9 | 102 | 92.9 | 105.1 | 196.8 | 232.7 |
| NCALD | 492.7 | 630.2 | 412.6 | 655.9 | 558.3 | 773.3 | 328.3 | 351.2 |
| NCALD | 322.6 | 400.7 | 287.7 | 487.4 | 431.7 | 541.5 | 273.3 | 255.2 |
| NCALD | 83.5 | 79.9 | 88.3 | 94.4 | 83 | 91.7 | 82.2 | 82.9 |
| NCAM1 | 111.2 | 114.5 | 84.9 | 78.3 | 82.8 | 88.4 | 102.1 | 112.3 |
| NCAM1 | 139.1 | 171.5 | 103.2 | 101 | 95.7 | 101 | 141.2 | 140.9 |
| NCAM1 | 256.3 | 298.1 | 217.7 | 108.5 | 100.9 | 118.3 | 249.1 | 266.5 |
| NCAM2 | 599.2 | 800.4 | 403.5 | 1293.7 | 1154.3 | 2408 | 509.6 | 722.6 |
| NCAPG2 | 1233.1 | 2050.9 | 1221.7 | 1168.7 | 948.9 | 1744.9 | 1014.1 | 1368.8 |
| NCBP1 | 1367 | 1681 | 566.4 | 520.2 | 324.6 | 566.9 | 1087.7 | 1440.9 |
| NCBP2 | 1964.4 | 2451.5 | 753.3 | 779.4 | 459.5 | 1011.8 | 1395.1 | 2366.8 |
| NCBP2 | 142.9 | 167 | 120.9 | 126.3 | 104.7 | 111.9 | 118 | 162.6 |
| NCBP2 | 759.9 | 938.5 | 353.5 | 401 | 350.8 | 444.5 | 545.8 | 742.9 |
| NCDN | 109.6 | 140.3 | 96.7 | 99.2 | 73.8 | 94.5 | 107.7 | 145.1 |
| NCDN | 107.3 | 118.2 | 129.3 | 116.7 | 112.4 | 116.9 | 104.6 | 110 |
| NCDN | 117.5 | 131.9 | 160.4 | 132.6 | 120.4 | 164.4 | 116.4 | 130.9 |
| NCF1 | 909.6 | 1255.3 | 546.9 | 368.3 | 371.2 | 259.4 | 779.7 | 1031.2 |
| NCF1B | 105.3 | 109.7 | 100.7 | 94.5 | 94 | 92.3 | 97.8 | 107.3 |
| NCF1C | 412.3 | 583.4 | 258.3 | 200.6 | 219.7 | 224.5 | 385.7 | 513.8 |
| NCF2 | 159.3 | 205.9 | 95.4 | 101 | 89.5 | 105.5 | 159.2 | 209.7 |
| NCF4 | 934.9 | 1113.3 | 295.4 | 247.8 | 304.5 | 303.1 | 774 | 691.5 |
| NCF4 | 267.8 | 293.5 | 210.9 | 198.4 | 230.2 | 291.2 | 210.6 | 362.7 |
| NCF4 | 1762.6 | 2289.4 | 1444.6 | 1024.2 | 962.6 | 1342.3 | 1396.1 | 1575.2 |
| NCK1 | 989.4 | 1317.1 | 616.7 | 776.1 | 627.2 | 1212.2 | 724 | 1569.5 |
| NCK2 | 145.4 | 170.3 | 96.1 | 96.4 | 85 | 98.2 | 113.2 | 164 |
| NCKAP1 | 83.4 | 90.4 | 92.5 | 88.2 | 80.9 | 94.2 | 77.1 | 96.4 |
| NCKAP1 | 85.8 | 93.2 | 102.2 | 92.1 | 93.2 | 94.9 | 81.9 | 99.3 |
| NCKIPSD | 125.4 | 170.5 | 94.7 | 96.2 | 91.1 | 91.8 | 127.4 | 150.9 |
| NCKIPSD | 731.8 | 906.9 | 313.5 | 257.4 | 233.2 | 284.5 | 453.7 | 429.1 |
| NCL | 9705.7 | 11703.1 | 4192.6 | 4488 | 3152.8 | 6878.8 | 8741.1 | 11271.6 |
| NCOA1 | 524.8 | 694.9 | 282.1 | 398 | 358.7 | 475.7 | 465.7 | 465.6 |
| NCOA1 | 99.7 | 124.2 | 107 | 122.8 | 107.8 | 122.5 | 101 | 115.3 |
| NCOA1 | 103.3 | 105.7 | 102.3 | 96.5 | 95.1 | 98.3 | 105 | 123.7 |
| NCOA2 | 133.5 | 166.9 | 102.4 | 111.9 | 88.9 | 103.7 | 119.9 | 147.7 |
| NCOA3 | 104.3 | 121.8 | 101.6 | 109 | 97.2 | 106.8 | 103.5 | 120.9 |
| NCOA3 | 415.9 | 557.1 | 270.9 | 451.8 | 321.1 | 533.2 | 471.5 | 799 |
| NCOA4 | 5969.1 | 7457.8 | 4586.2 | 6284.3 | 5380.3 | 8045.9 | 4696.5 | 5558.3 |
| NCOA5 | 520.4 | 685.6 | 788.8 | 599.1 | 554.1 | 738.1 | 489.1 | 1103.4 |
| NCOA6 | 739.1 | 909.9 | 516.7 | 858.4 | 672.1 | 843.3 | 660.2 | 890.8 |
| NCOA6IP | 527.7 | 572.6 | 297.4 | 202.7 | 191.8 | 227.6 | 373.7 | 344.8 |
| NCOA7 | 529.4 | 713.8 | 413.4 | 553.3 | 430.7 | 724.8 | 663.2 | 964.1 |
| NCOR1 | 190.5 | 270.4 | 160.7 | 167.2 | 176 | 237.3 | 202.2 | 266.3 |
| NCOR2 | 365.1 | 521 | 363.9 | 421.5 | 319.8 | 694 | 367.7 | 617.5 |
| NCOR2 | 784.3 | 1058.8 | 1263.2 | 1276.5 | 912.9 | 1795.5 | 763.1 | 1593.6 |
| NCOR2 | 86.3 | 91.2 | 114.4 | 97.1 | 102 | 108 | 88.9 | 92.8 |
| NCR1 | 122.7 | 159.4 | 91.6 | 80.6 | 80.8 | 72.4 | 128 | 142 |
| NCR2 | 89.6 | 107.7 | 97.5 | 85.6 | 86 | 83.2 | 91.3 | 97.6 |
| NCR3 | 136.8 | 163.7 | 149.2 | 120.8 | 98.8 | 119.6 | 148.8 | 157.3 |

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| NCSTN | 4815.4 | 5731.4 | 4040.8 | 4703.8 | 3820.7 | 4111.5 | 4002 | 4699.8 |
| NDE1 | 486.1 | 641.8 | 246 | 171.2 | 196.1 | 181.7 | 505 | 598.1 |
| NDEL1 | 705.3 | 1013.2 | 665.5 | 748.1 | 584.9 | 867.1 | 890.6 | 1133.2 |
| NDEL1 | 107.6 | 132.3 | 122.1 | 127.4 | 101.2 | 129.6 | 117.4 | 147 |
| NDFIP1 | 254.4 | 314.4 | 170.3 | 214.9 | 168.8 | 262.2 | 207.7 | 322.2 |
| NDFIP2 | 1833 | 2279.3 | 1369 | 1845.4 | 1273.8 | 2346 | 1607.8 | 2421.2 |
| NDN | 77.8 | 86 | 94.7 | 86.4 | 85.4 | 91.2 | 81.1 | 83.6 |
| NDNL2 | 167.6 | 212 | 112.7 | 95.9 | 95.6 | 97.9 | 157.3 | 199.6 |
| NDOR1 | 110.1 | 121.5 | 84 | 81.5 | 77.3 | 83 | 116.6 | 136.6 |
| NDP | 120.8 | 134.3 | 96.7 | 88.2 | 92.1 | 105.8 | 120.7 | 128.3 |
| NDRG1 | 333.7 | 387.6 | 158.4 | 209.5 | 219.6 | 234.3 | 242.7 | 300.9 |
| NDRG2 | 147 | 169.5 | 106.3 | 85.3 | 86.5 | 88.5 | 126.7 | 181.2 |
| NDRG2 | 545.1 | 751.1 | 427.3 | 308.7 | 217.3 | 281.2 | 503.7 | 620.8 |
| NDRG3 | 342.9 | 437.2 | 183.2 | 226.2 | 178 | 248.3 | 290 | 472.2 |
| NDRG3 | 182.7 | 280.4 | 160 | 125.7 | 106.4 | 130.8 | 151.6 | 195.3 |
| NDRG4 | 100 | 127.3 | 91.1 | 83.2 | 80.3 | 84.8 | 99.1 | 139.7 |
| NDRG4 | 89.4 | 96.6 | 109.6 | 100.1 | 99.6 | 106.8 | 92.2 | 93.5 |
| NDRG4 | 102.2 | 105.7 | 111.1 | 92.3 | 96.7 | 101 | 94.2 | 98.5 |
| NDST1 | 129.2 | 177 | 152.6 | 124.4 | 109.1 | 183.6 | 144.2 | 175.8 |
| NDST2 | 316.9 | 356.9 | 325.3 | 229.4 | 217.7 | 232.2 | 234.6 | 244.5 |
| NDST3 | 89.8 | 89.7 | 92.9 | 93.1 | 91.6 | 86.2 | 92.6 | 90.8 |
| NDST4 | 84.1 | 72.8 | 102.6 | 97.6 | 99.5 | 107.8 | 73.9 | 75.2 |
| NDUFA1 | 17621.2 | 21291.1 | 15453.1 | 14270.6 | 12193.4 | 15645.6 | 14346.2 | 18259.6 |
| NDUFA10 | 750.9 | 928 | 326.7 | 183.1 | 193.1 | 214.8 | 528.8 | 642.6 |
| NDUFA11 | 4830.8 | 5363.1 | 4025.8 | 2437 | 2129.9 | 2919.6 | 3729.6 | 3619.3 |
| NDUFA12 | 4499.8 | 5149 | 3216.4 | 2679.6 | 2277.9 | 2963 | 3727.3 | 3991.6 |
| NDUFA13 | 3345.1 | 3793.1 | 2545.3 | 2216.5 | 1870.1 | 2479.4 | 3157.5 | 3695.9 |
| NDUFA3 | 6834.1 | 7236.6 | 6173.1 | 3987.5 | 2857.4 | 3258.7 | 5788 | 7186.5 |
| NDUFA4 | 14974.9 | 16206.7 | 7919.9 | 9984.9 | 6011.9 | 8765.2 | 16890 | 20907.9 |
| NDUFA5 | 96.6 | 103.6 | 98.9 | 84.8 | 81.2 | 99.7 | 96.1 | 116 |
| NDUFA7 | 1461.7 | 1793.4 | 1170.7 | 736.3 | 526.5 | 622.6 | 1449.4 | 1680.1 |
| NDUFA8 | 4823.4 | 6444.6 | 3815.3 | 2965.9 | 2244.7 | 2709.4 | 4174.7 | 4896.1 |
| NDUFA9 | 931.2 | 1399.7 | 575.4 | 469.2 | 373.8 | 508.6 | 808.8 | 1126.4 |
| NDUFAB1 | 7759.7 | 8362.7 | 3978 | 3318.3 | 1999.2 | 3027.8 | 7449.4 | 10240.7 |
| NDUFAB1 | 646.3 | 974.3 | 397.7 | 357.2 | 286.3 | 443.7 | 604.5 | 818.1 |
| NDUFB1 | 141 | 172.6 | 153.7 | 122.4 | 119.2 | 135.8 | 120.4 | 146.9 |
| NDUFB10 | 5210.8 | 5559.4 | 1114.4 | 946.4 | 939.7 | 888.6 | 5090.6 | 5628.7 |
| NDUFB11 | 5786.2 | 7591.4 | 4297.6 | 3653.8 | 2799.8 | 3637 | 5786.2 | 8339.3 |
| NDUFB2 | 6099 | 7422.9 | 4210.5 | 5093.5 | 4153 | 5336.7 | 5199.7 | 6032.7 |
| NDUFB3 | 7733.8 | 8643.9 | 4600.5 | 4537.1 | 3274.2 | 5557.2 | 7474.6 | 10581.8 |
| NDUFB4 | 75.3 | 84.2 | 84.7 | 83.5 | 77 | 84.9 | 81.5 | 83.9 |
| NDUFB5 | 7169.3 | 9398.9 | 7050.3 | 8801.3 | 6792.8 | 8957.7 | 7601.7 | 9136.9 |
| NDUFB6 | 2243.7 | 2571.6 | 1334 | 1242.1 | 945.9 | 1052.4 | 2216.8 | 2090.6 |
| NDUFB7 | 3573.8 | 4213.2 | 2663.6 | 2062.9 | 2044.7 | 2655.2 | 3265.7 | 3517 |
| NDUFB8 | 12029.3 | 15230.3 | 11548.2 | 8017.2 | 6944.1 | 9216.1 | 12017.3 | 13603.6 |
| NDUFC1 | 1876.5 | 2122 | 1273.6 | 832.4 | 656.1 | 799.3 | 2131.9 | 3797.1 |
| NDUFC2 | 111.9 | 119.9 | 109.7 | 108 | 109.2 | 92.5 | 106.1 | 102.4 |
| NDUFS1 | 223.3 | 261.7 | 154.2 | 196.4 | 163.6 | 162.9 | 187 | 259 |
| NDUFS2 | 324.9 | 385.2 | 156 | 145.1 | 154.8 | 136.9 | 300 | 315.9 |
| NDUFS3 | 6268.3 | 7106.8 | 2986.2 | 2617.7 | 2453.3 | 2295.8 | 5339.9 | 5238.4 |

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|--------|---------|---------|---------|---------|--------|---------|--------|---------|
| NDUFS4 | 5268.7 | 6178.6 | 2634.2 | 2728.1 | 1897.1 | 2539.5 | 4994.3 | 6294.2 |
| NDUFS5 | 9042.4 | 11335.7 | 6015.2 | 4908.3 | 3632.9 | 5104.1 | 8521.2 | 10673.8 |
| NDUFS6 | 97.5 | 105.7 | 89.9 | 92.9 | 81.1 | 81.1 | 99.4 | 104.2 |
| NDUFS7 | 3625.3 | 4764.2 | 3018.9 | 1975.7 | 1690.5 | 1721.3 | 3576.5 | 3232.8 |
| NDUFS8 | 6082.9 | 7865.3 | 3650.4 | 2788.1 | 2087.2 | 2676.8 | 6536.6 | 6792.4 |
| NDUFV1 | 2293.1 | 3025.4 | 1960.8 | 1862.6 | 1562.2 | 2536.3 | 2292.2 | 2757.4 |
| NDUFV2 | 4416.5 | 4845.5 | 3397.7 | 3862.9 | 2217.1 | 3292.1 | 4246.3 | 7609.9 |
| NDUFV3 | 136.5 | 183.7 | 118.6 | 108.8 | 99.3 | 108.8 | 148.2 | 133.7 |
| NDUFV3 | 514.6 | 610.7 | 256.4 | 192.1 | 146.3 | 222.5 | 379.9 | 561.6 |
| NEB | 119.1 | 153.3 | 98.7 | 92 | 88 | 100.1 | 111.1 | 138.8 |
| NEBL | 106.5 | 137.2 | 98.6 | 93.3 | 88.1 | 90.7 | 121.6 | 125.9 |
| NEBL | 81.2 | 87.9 | 81.2 | 74 | 75.3 | 78.6 | 89.2 | 93.9 |
| NEBL | 108.3 | 141.3 | 95.8 | 86.9 | 81.8 | 95 | 117.5 | 123.4 |
| NECAP1 | 344.3 | 395.9 | 256.2 | 254.5 | 240.8 | 352 | 290.8 | 432.6 |
| NECAP2 | 863 | 1191.1 | 802.1 | 702.8 | 719.8 | 881.7 | 770.3 | 1121.3 |
| NEDD1 | 94.6 | 113.5 | 99.4 | 98 | 93.3 | 98.2 | 94.4 | 125 |
| NEDD4 | 177.5 | 215.8 | 103.4 | 116 | 100.5 | 109.4 | 180.2 | 190 |
| NEDD4 | 81.5 | 93 | 90.1 | 83.1 | 84.3 | 85.5 | 77.8 | 93.6 |
| NEDD4 | 214.1 | 307.7 | 194.9 | 212.2 | 184.8 | 273.7 | 203.4 | 216.7 |
| NEDD4L | 115 | 149.9 | 138.3 | 126.6 | 126 | 145.1 | 118.1 | 152.4 |
| NEDD8 | 14633.3 | 18714.6 | 13038.3 | 10139.6 | 8543 | 10700.5 | 15604 | 17933.4 |
| NEDD9 | 105.2 | 123.3 | 84.5 | 89.8 | 96.6 | 88.5 | 101.4 | 91.5 |
| NEDD9 | 144.8 | 186.5 | 106.7 | 114.1 | 96.9 | 125.4 | 142.4 | 189 |
| NEDD9 | 122 | 158 | 86.5 | 72.5 | 90.5 | 87.6 | 136 | 152.8 |
| NEFH | 726.7 | 1112 | 531.8 | 261.3 | 214.1 | 302.2 | 581 | 655.7 |
| NEFL | 108.1 | 111.7 | 97.7 | 83.3 | 89.7 | 75.8 | 109.3 | 131.7 |
| NEFM | 110.2 | 111.4 | 104.5 | 89.3 | 96.2 | 93.1 | 96.4 | 102 |
| NEGR1 | 81.2 | 87.1 | 91.5 | 97 | 82.1 | 85.5 | 90.9 | 91.3 |
| NEIL1 | 157.9 | 178.1 | 108.8 | 110.8 | 105.9 | 106.8 | 142 | 142.5 |
| NEIL2 | 286.3 | 379.1 | 189 | 133 | 119.6 | 139.4 | 244.3 | 392.5 |
| NEIL3 | 87.7 | 104.8 | 86.4 | 76.4 | 76.8 | 74.9 | 82.5 | 104.2 |
| NEK1 | 173.9 | 213.5 | 178.5 | 225.5 | 197.4 | 339.4 | 167.7 | 229 |
| NEK10 | 101.5 | 113.5 | 105.9 | 98.3 | 106.4 | 109.3 | 84.7 | 93.9 |
| NEK10 | 123.6 | 138.7 | 96.6 | 84.1 | 79.5 | 90.2 | 112.5 | 131.5 |
| NEK11 | 95 | 118.9 | 97.8 | 93.9 | 85.1 | 98.5 | 98.8 | 102.2 |
| NEK11 | 147.8 | 144.2 | 102.9 | 94.9 | 84.5 | 106.1 | 121.6 | 129.4 |
| NEK2 | 946 | 1171.7 | 525.2 | 412.8 | 356.8 | 494.3 | 757.8 | 1339 |
| NEK3 | 97.8 | 107.7 | 94 | 87.9 | 78.7 | 77 | 101 | 112.6 |
| NEK3 | 403.9 | 518 | 180.1 | 174.2 | 158.3 | 209.7 | 343.3 | 499 |
| NEK3 | 97.5 | 105.5 | 89.8 | 94.1 | 89.5 | 87.5 | 101.9 | 109.2 |
| NEK4 | 131.9 | 170.2 | 104.6 | 109.9 | 110 | 123 | 122.3 | 124.4 |
| NEK5 | 78.8 | 96 | 84.2 | 78.6 | 75.2 | 81.7 | 85.7 | 89.3 |
| NEK6 | 497.8 | 655.5 | 432.2 | 360.5 | 291.3 | 395.3 | 502.2 | 714.4 |
| NEK7 | 237.7 | 311.5 | 109.5 | 92.4 | 92.5 | 98.5 | 168.4 | 216.5 |
| NEK8 | 174.4 | 188.1 | 146.3 | 193.4 | 198.9 | 179 | 130.3 | 143.5 |
| NEK9 | 102.5 | 112.9 | 104.3 | 96.7 | 87.3 | 98.6 | 100.9 | 104.3 |
| NELF | 1517.3 | 1600.5 | 539.1 | 478.8 | 376.6 | 556.8 | 1151.4 | 878.9 |
| NELL1 | 196.6 | 207.9 | 120.1 | 124.6 | 108.3 | 124 | 174.6 | 200.3 |
| NELL2 | 127.4 | 148.8 | 126.1 | 130.4 | 102.7 | 138.5 | 101.3 | 127 |
| NENF | 4663.7 | 5974.8 | 2902.3 | 3510.3 | 2842.8 | 2886.8 | 4484.8 | 3881 |

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|----------|--------|--------|-------|--------|-------|--------|--------|--------|
| NEO1 | 200.3 | 243.3 | 125.6 | 152.6 | 156.7 | 161.6 | 192.4 | 229.9 |
| NES | 102.5 | 120.6 | 98.2 | 91.8 | 87.9 | 99.2 | 111.7 | 121.2 |
| NET1 | 1195.7 | 1553.3 | 792.4 | 561.6 | 411.2 | 725.7 | 1306.2 | 2466.3 |
| NET1 | 134.5 | 150.8 | 90.5 | 86.9 | 89.2 | 94 | 126.1 | 129.5 |
| NET1 | 377.8 | 491.3 | 218.7 | 142.1 | 163.5 | 170 | 316.5 | 355.9 |
| NETO1 | 79.2 | 94.4 | 94.1 | 91.1 | 90.4 | 84.7 | 82.2 | 85.7 |
| NETO1 | 74.8 | 85.2 | 104 | 98.2 | 87.4 | 94.5 | 81 | 87.2 |
| NETO1 | 83 | 88.8 | 90.2 | 77.5 | 80.6 | 81.3 | 84.4 | 91.5 |
| NETO1 | 75.1 | 71.1 | 90.9 | 83.7 | 84.9 | 92.3 | 77.8 | 66.4 |
| NETO2 | 775.1 | 902 | 552.4 | 344.8 | 290.9 | 505.9 | 594.5 | 999.8 |
| NEU1 | 764.1 | 1043.3 | 608.7 | 785.8 | 695.4 | 1057.2 | 823.8 | 1158.6 |
| NEU2 | 80.5 | 92.4 | 95.1 | 94.1 | 92 | 89 | 76.6 | 88.5 |
| NEU3 | 131.2 | 140.4 | 111.3 | 103.9 | 95 | 92.3 | 113.8 | 131.1 |
| NEU4 | 111.9 | 142.7 | 92.5 | 86.4 | 82.2 | 85.7 | 103.6 | 125.4 |
| NEURL | 104.3 | 120.9 | 108.5 | 104.8 | 90.3 | 99.6 | 101.7 | 109.7 |
| NEURL2 | 126.1 | 127 | 119.6 | 94.3 | 104.5 | 107.8 | 106.7 | 116.1 |
| NEUROD1 | 94.5 | 112.9 | 101.8 | 87.9 | 90.8 | 98.2 | 100.2 | 99.9 |
| NEUROD2 | 90 | 100 | 95.3 | 93.2 | 98.1 | 94.1 | 95.5 | 86.6 |
| NEUROD4 | 95 | 124.9 | 91.9 | 89.7 | 83.1 | 86.4 | 104.4 | 114.1 |
| NEUROD6 | 99 | 119.3 | 98.3 | 101.8 | 87.1 | 89.9 | 109.1 | 114.5 |
| NEUROG1 | 95.1 | 112 | 98.4 | 98.5 | 102.2 | 96 | 102.9 | 114.3 |
| NEUROG2 | 130.9 | 134.2 | 96.6 | 94.1 | 90.1 | 104.3 | 129.1 | 136.9 |
| NEUROG3 | 125.6 | 141.8 | 94.9 | 95.4 | 92.4 | 94.8 | 111.7 | 133.4 |
| NEXN | 287.6 | 373.2 | 148.5 | 105.5 | 95.6 | 117.6 | 160.9 | 207.9 |
| NF1 | 111.9 | 148.2 | 101.1 | 113.3 | 108.4 | 137.3 | 118.8 | 129.1 |
| NF2 | 127.7 | 187.6 | 110.3 | 129.3 | 114.2 | 102.5 | 122.1 | 150.8 |
| NF2 | 105.3 | 137 | 92.4 | 96 | 95.3 | 83.6 | 105.3 | 104.6 |
| NF2 | 112.5 | 131.2 | 111.2 | 101.8 | 103.2 | 108.5 | 109.9 | 111.6 |
| NFAM1 | 126.9 | 143.6 | 93 | 95.4 | 86 | 91.2 | 114.8 | 175.9 |
| NFASC | 112.3 | 126.4 | 90.8 | 85.7 | 80.9 | 88.4 | 106.3 | 131.9 |
| NFAT5 | 123.8 | 144.8 | 96.5 | 104.7 | 101.6 | 93.7 | 122 | 129.1 |
| NFAT5 | 129.5 | 153 | 96.4 | 104.8 | 109.8 | 91.8 | 124.9 | 141.8 |
| NFAT5 | 77.5 | 106.1 | 89.6 | 89.3 | 81 | 87.2 | 81.9 | 86 |
| NFATC1 | 354.9 | 493.5 | 154.2 | 142.3 | 128 | 148.6 | 306 | 367.8 |
| NFATC1 | 117.1 | 127.2 | 85.9 | 81.5 | 75.1 | 90.3 | 104.6 | 150.2 |
| NFATC1 | 81.6 | 94.2 | 93.6 | 83 | 78.6 | 92.2 | 75.8 | 87.4 |
| NFATC1 | 118.3 | 152.4 | 109.3 | 79.7 | 70.4 | 81.3 | 106.9 | 155 |
| NFATC2 | 74.9 | 80.8 | 79.4 | 86.8 | 79 | 72.8 | 73.2 | 74.1 |
| NFATC2 | 84.3 | 93.7 | 95.9 | 92.7 | 88.9 | 86.9 | 82.8 | 90.4 |
| NFATC2IP | 308.5 | 325.7 | 148.8 | 150.7 | 157.2 | 150.3 | 256.7 | 356.3 |
| NFATC2IP | 145.9 | 169.1 | 108.8 | 88 | 93.2 | 95.9 | 122.5 | 162.3 |
| NFATC3 | 243.5 | 346 | 199.7 | 227.9 | 207.1 | 246.3 | 216.9 | 271.3 |
| NFATC3 | 75 | 89.1 | 94.3 | 91 | 88.5 | 95 | 83 | 85.6 |
| NFATC3 | 198.8 | 282.3 | 157.9 | 159.5 | 172.2 | 203.5 | 183 | 197 |
| NFATC3 | 134.7 | 184.8 | 141.2 | 156.1 | 131.1 | 179.2 | 141.9 | 162.9 |
| NFATC3 | 99 | 121.7 | 112 | 112.6 | 97.9 | 109.8 | 99.9 | 109 |
| NFATC4 | 79 | 102.1 | 90.7 | 85.9 | 70.6 | 86.1 | 82 | 86.1 |
| NFE2 | 494.2 | 682.3 | 297 | 586.4 | 597.5 | 570.2 | 338.2 | 287 |
| NFE2L1 | 333.9 | 449.9 | 365.8 | 393.2 | 364.7 | 642.4 | 375.8 | 544.6 |
| NFE2L2 | 1567.4 | 2051 | 935.5 | 1035.4 | 809.8 | 1437.1 | 1516.5 | 4306.2 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| NFE2L3 | 307.3 | 411 | 183.2 | 197.1 | 238.4 | 240.7 | 240 | 286.6 |
| NFIA | 92.7 | 96.1 | 90.9 | 91.5 | 74.7 | 84.4 | 96.6 | 107.2 |
| NFIB | 161.2 | 145.8 | 91 | 92 | 84.4 | 87.9 | 110.6 | 115.5 |
| NFIC | 114.1 | 117.8 | 102.4 | 90.4 | 80.4 | 96.1 | 110.1 | 139.6 |
| NFIC | 93.5 | 93.7 | 104.4 | 100.5 | 94.6 | 98.2 | 93.3 | 106.8 |
| NFIC | 105.4 | 116.2 | 105.5 | 100.1 | 91.4 | 103.5 | 103.2 | 116.9 |
| NFIL3 | 321.5 | 383.9 | 134.9 | 139.3 | 104.3 | 141.6 | 325.7 | 522.9 |
| NFIX | 361.4 | 415.9 | 358.5 | 222.1 | 146.3 | 203.2 | 338.6 | 975.7 |
| NFKB1 | 2961.2 | 3825.7 | 2449.9 | 1879.7 | 1640.8 | 1815.7 | 2336.8 | 3114.3 |
| NFKB2 | 115.9 | 138.9 | 113.3 | 96.9 | 97.3 | 105.4 | 116.1 | 129 |
| NFKB2 | 99.3 | 124.2 | 114.9 | 107.3 | 103.3 | 106.2 | 116.7 | 120.5 |
| NFKB2 | 92.5 | 100 | 90.4 | 86.3 | 78 | 81.7 | 79.1 | 92.6 |
| NFKBIB | 226.4 | 278.3 | 146.2 | 116.3 | 102.2 | 113.7 | 221.3 | 290.5 |
| NFKBIB | 142.1 | 183.6 | 102 | 92.5 | 91.5 | 84.3 | 147.9 | 193.9 |
| NFKBIB | 183.9 | 240.6 | 172.9 | 137.8 | 127.7 | 137.9 | 198.5 | 286.1 |
| NFKBIE | 659.7 | 780.3 | 299.4 | 230.5 | 245.3 | 246.4 | 511.6 | 686.5 |
| NFKBIL1 | 158.4 | 185.9 | 101 | 109.8 | 89.8 | 104.2 | 143 | 195.5 |
| NFKBIL2 | 150.7 | 152 | 176.2 | 124.1 | 122.3 | 138.1 | 111.7 | 141.8 |
| NFKBIZ | 130.7 | 163.5 | 110.6 | 111.1 | 108.5 | 108.3 | 122.6 | 136.3 |
| NFKBIZ | 391.1 | 396 | 301.6 | 450.3 | 518.9 | 525.7 | 317.6 | 481.4 |
| NFRKB | 156.2 | 185.4 | 174.2 | 111.5 | 126.5 | 148 | 141 | 208.3 |
| NFS1 | 200.4 | 234.6 | 118.7 | 104.9 | 101.4 | 107.1 | 175.5 | 190.6 |
| NFS1 | 1594.4 | 1962.8 | 576.6 | 382.5 | 341.6 | 298.8 | 1277.4 | 1037.8 |
| NFU1 | 1635.4 | 1793.4 | 1211.2 | 1084.7 | 834.4 | 1602.9 | 1395.5 | 2408.5 |
| NFX1 | 355.7 | 477.8 | 174.1 | 160.6 | 163.9 | 158.8 | 296.6 | 288.1 |
| NFX1 | 636.8 | 950 | 325.8 | 236.7 | 211.8 | 275.6 | 431.8 | 590.9 |
| NFX1 | 157.9 | 138.8 | 131.9 | 122.6 | 131.2 | 115.9 | 131.5 | 180.2 |
| NFX1 | 2503.2 | 2359.3 | 726.6 | 735.7 | 558.2 | 818.1 | 2014.6 | 2994.5 |
| NFXL1 | 374 | 414.7 | 216.2 | 244.9 | 224.9 | 374.8 | 370.4 | 560.3 |
| NFYA | 457.1 | 678.3 | 310.8 | 260.4 | 199.9 | 399.6 | 278.3 | 320.4 |
| NFYA | 89.9 | 113.9 | 100.8 | 100.2 | 89.7 | 91.5 | 89.8 | 112.5 |
| NFYB | 140.9 | 151.3 | 116.1 | 129.6 | 121.7 | 133.2 | 114.3 | 125 |
| NFYC | 2893.3 | 4112.4 | 2369.4 | 1972.9 | 1456 | 2679.8 | 2068.8 | 3487.1 |
| NGB | 165.6 | 193.9 | 115.5 | 110.5 | 113.1 | 124.4 | 156.5 | 172.2 |
| NGDN | 140.8 | 166.1 | 111.4 | 130.2 | 122.7 | 133.4 | 141.4 | 166.8 |
| NGDN | 2128.6 | 2700 | 897.6 | 818.2 | 555.2 | 1020 | 1831.7 | 2700.2 |
| NGEF | 91.8 | 105 | 97.4 | 81.5 | 76.3 | 88 | 97.6 | 97.8 |
| NGFB | 131.3 | 147.3 | 122.3 | 112.4 | 116 | 119.7 | 118.6 | 115.8 |
| NGFR | 117.6 | 124.8 | 87.6 | 76.6 | 78.9 | 96.5 | 108.9 | 154.4 |
| NGFRAP1 | 270.7 | 235.9 | 163.1 | 124.5 | 118.7 | 128.3 | 163.6 | 215 |
| NGFRAP1 | 1174.7 | 1737.2 | 555.3 | 329.6 | 264.4 | 360.4 | 1042.1 | 1404.6 |
| NGFRAP1 | 6623.4 | 7943.8 | 3659.4 | 2092.2 | 1558.3 | 1758.4 | 6312 | 7958.5 |
| NGFRAP1L: | 333.9 | 457.2 | 232.5 | 91.8 | 85.6 | 95.5 | 295.4 | 426.2 |
| NGLY1 | 836.6 | 924.4 | 316.5 | 381.4 | 333.2 | 457.2 | 632.9 | 1105.4 |
| NGRN | 3797.3 | 5289.4 | 2836.7 | 2661 | 1859.1 | 3261.8 | 3590.7 | 4412.1 |
| NGRN | 717.8 | 975.9 | 422.9 | 247.6 | 210.5 | 213.4 | 520 | 639.1 |
| NHLH1 | 78.8 | 91.1 | 96 | 87.2 | 89.4 | 86.5 | 83.3 | 93.9 |
| NHLH2 | 95.1 | 110.1 | 90.5 | 89.2 | 83.5 | 89.2 | 101.5 | 113.1 |
| NHLRC1 | 85.4 | 89.2 | 94.1 | 84.1 | 79 | 82.8 | 76.7 | 91.2 |
| NHLRC2 | 230.5 | 317 | 203.9 | 150.9 | 159.1 | 202.2 | 208.4 | 239.1 |

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|-----------|--------|---------|--------|--------|--------|--------|--------|---------|
| NHN1 | 234.3 | 249.1 | 194.2 | 149.5 | 157.9 | 178.1 | 200.1 | 281.3 |
| NHP2L1 | 3999.1 | 4938.3 | 2018.2 | 1748.3 | 1320.6 | 1562 | 3206.4 | 3246.1 |
| NHP2L1 | 1463.5 | 2136.8 | 1113.2 | 819 | 621.6 | 732.7 | 1248.7 | 1508.7 |
| NHP2L1 | 1074.7 | 1508.9 | 569.5 | 401.1 | 270.1 | 447.1 | 852.5 | 932.9 |
| NHS | 88.5 | 93.8 | 94.7 | 82.5 | 77.4 | 83.7 | 82.5 | 98 |
| NIBP | 121.8 | 142.8 | 170.2 | 127.4 | 113.4 | 178.4 | 119.1 | 196.2 |
| NICN1 | 933.4 | 1061.4 | 649.6 | 639.1 | 539.4 | 600.6 | 609.6 | 652.5 |
| NID1 | 177.4 | 226.1 | 157.3 | 138.7 | 139.8 | 161.8 | 153.4 | 189.1 |
| NID2 | 83.7 | 94.6 | 107.4 | 99 | 89.6 | 81 | 85.3 | 88.6 |
| NIF3L1 | 2691.6 | 3465.6 | 1861.1 | 1692 | 1196.5 | 1941.9 | 2409.3 | 2881.3 |
| NIF3L1BP1 | 9770.9 | 11232.2 | 6060.9 | 5643.2 | 4460.7 | 6129.9 | 8335.6 | 10336.6 |
| NIFIE14 | 3394.8 | 4158.6 | 2779.9 | 1612.1 | 1258.3 | 2005.6 | 3020.9 | 4527.5 |
| NIFUN | 373.5 | 525.1 | 228.1 | 177.6 | 162.8 | 194.9 | 401.4 | 459.4 |
| NIN | 308.8 | 490.1 | 228 | 191.8 | 222.8 | 288.7 | 318.2 | 375.1 |
| NIN | 216.1 | 325.8 | 215.8 | 226 | 242.3 | 377.1 | 234.7 | 295.4 |
| NIN | 72 | 75.7 | 91.4 | 85.4 | 80 | 88.5 | 72.3 | 79.1 |
| NIN | 562.1 | 790.4 | 476.7 | 902.4 | 789.2 | 1475.2 | 572 | 761.6 |
| NINJ1 | 1215.6 | 1475.2 | 856.8 | 701.6 | 502.7 | 541.8 | 2132.9 | 3136.8 |
| NINJ2 | 1664.9 | 1950 | 1063.1 | 1271.3 | 946.3 | 1021.4 | 1559.4 | 1268 |
| NIP | 85.2 | 86 | 85.2 | 78.1 | 81.8 | 87.5 | 94.2 | 92.7 |
| NIP30 | 351 | 480.3 | 338.4 | 354.9 | 304.7 | 482.4 | 281.9 | 438 |
| NIP7 | 3180.3 | 3622.7 | 1622.8 | 1183.9 | 709.9 | 1243.5 | 2254.7 | 2782.3 |
| NIPA1 | 179.4 | 233.1 | 130.9 | 146.8 | 138.3 | 152.2 | 200.4 | 291.7 |
| NIPA2 | 237.8 | 269.3 | 101.8 | 97.9 | 91.5 | 97.7 | 172.3 | 202.7 |
| NIPA2 | 4410.6 | 5720.8 | 3494.9 | 2595.8 | 1800.3 | 2645.8 | 3448.6 | 4987.1 |
| NIPBL | 77.1 | 76.4 | 91.2 | 75.3 | 76.1 | 84.3 | 72.4 | 70.9 |
| NIPBL | 208.7 | 302.5 | 147.9 | 175.3 | 166.8 | 243.5 | 226 | 270.6 |
| NIPBL | 434 | 615.6 | 369.9 | 721.9 | 681.6 | 1221.6 | 433.7 | 528.6 |
| NIPSNAP1 | 712.4 | 897.1 | 383.7 | 347.1 | 278.6 | 395.7 | 681 | 1069.2 |
| NIPSNAP3A | 77.6 | 86.6 | 93.3 | 88.5 | 89.1 | 89.4 | 80 | 84.9 |
| NIPSNAP3E | 114.6 | 126.7 | 82.1 | 90.8 | 93.9 | 93.2 | 90.6 | 137.1 |
| NISCH | 531.2 | 623.2 | 493.4 | 587 | 490.4 | 788.8 | 483.4 | 619.6 |
| NIT1 | 137.6 | 162.4 | 108.4 | 105.9 | 100.1 | 114.2 | 119.3 | 139.4 |
| NIT2 | 1401.6 | 1779.5 | 679.6 | 662.7 | 529.1 | 699.3 | 1143.5 | 1313.9 |
| NKAP | 181.9 | 227.4 | 116.9 | 108.2 | 91.7 | 146.6 | 148.8 | 238.2 |
| NKD1 | 101 | 111.8 | 125.7 | 117.5 | 101.4 | 130.6 | 110.9 | 120.2 |
| NKD2 | 1200.9 | 1390.4 | 855.8 | 593.8 | 651.9 | 620.6 | 1342.7 | 1662.3 |
| NKG7 | 1092.9 | 1484.9 | 1075.3 | 638.8 | 503.2 | 621.5 | 1120.6 | 1483.1 |
| NKIRAS1 | 268.5 | 340.3 | 174.9 | 190.6 | 174.6 | 224.8 | 228.2 | 335.6 |
| NKIRAS2 | 120.8 | 125.4 | 98.8 | 100.8 | 98.7 | 90.6 | 112.8 | 123.5 |
| NKIRAS2 | 85.7 | 100.9 | 90.1 | 88.2 | 90.2 | 86.8 | 93.8 | 111.5 |
| NKIRAS2 | 292.9 | 329.3 | 187.3 | 201.7 | 152.2 | 172.1 | 297.1 | 605.1 |
| NKPD1 | 96.6 | 95.1 | 89 | 90.3 | 78.5 | 89.3 | 82.9 | 106.4 |
| NKRF | 732.9 | 849.7 | 428.8 | 455.3 | 328.4 | 507.8 | 516.5 | 771.2 |
| NKTR | 231.8 | 306.8 | 164.2 | 206.9 | 221.3 | 294.5 | 205.1 | 246.5 |
| NKTR | 1039.5 | 1168.3 | 731.5 | 1491.9 | 1447.2 | 2378.8 | 725.8 | 930.4 |
| NKX2-2 | 115.1 | 151.8 | 125.6 | 194.6 | 186.3 | 195.7 | 111.8 | 138.6 |
| NKX2-3 | 89.5 | 102 | 101.2 | 90.9 | 90.6 | 81.9 | 92 | 86.6 |
| NKX2-5 | 73.3 | 78.3 | 94.5 | 80.7 | 84 | 87.7 | 79.1 | 82.2 |
| NKX2-8 | 122.1 | 142.6 | 101.1 | 102.4 | 83.1 | 97.8 | 118.4 | 141.3 |

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|----------|---------|---------|---------|--------|--------|---------|---------|---------|
| NKX3-1 | 138.2 | 158.6 | 110.4 | 95.1 | 91.6 | 97.2 | 136.4 | 212 |
| NKX6-1 | 112.5 | 103.9 | 90.9 | 80 | 83.7 | 83.4 | 111.1 | 108.6 |
| NKX6-2 | 92.5 | 106.5 | 95.1 | 85.2 | 82.4 | 87.5 | 87.5 | 99.1 |
| NKX6-3 | 139.1 | 180.3 | 116.8 | 102.7 | 93.1 | 112 | 149.5 | 160.5 |
| NLE1 | 137.9 | 166.4 | 117.2 | 100.4 | 91.6 | 104.6 | 129.9 | 170.8 |
| NLE1 | 107.7 | 145.3 | 129.1 | 112.4 | 110.4 | 109.8 | 113.9 | 126.2 |
| NLF1 | 77.6 | 84.3 | 87.4 | 79.9 | 80.8 | 78.6 | 77.6 | 76 |
| NLF2 | 91.3 | 102 | 83.8 | 83.9 | 78.8 | 80.9 | 87.9 | 91.5 |
| NLF2 | 96.9 | 113 | 100.6 | 84 | 83.4 | 92.2 | 79.2 | 94.1 |
| NLGN1 | 97.9 | 108.4 | 95.7 | 97 | 94.4 | 107.4 | 99.4 | 98.2 |
| NLGN2 | 111.4 | 129.9 | 120 | 107.7 | 110.3 | 98.4 | 109.1 | 136.8 |
| NLGN3 | 79.9 | 90.7 | 85.7 | 81.6 | 79.1 | 87.2 | 86.9 | 92.2 |
| NLGN4X | 78.2 | 75 | 85.4 | 92.7 | 82.7 | 93 | 80.7 | 74.3 |
| NLGN4X | 85.7 | 95.8 | 101.9 | 88.2 | 86.9 | 91.8 | 85.4 | 87.2 |
| NLGN4Y | 197.9 | 261.9 | 151.2 | 146.5 | 121.5 | 152.9 | 182.9 | 260.2 |
| NLK | 220 | 244.7 | 137.2 | 143.9 | 117.1 | 165.4 | 203.6 | 300.9 |
| NLN | 319.9 | 448.6 | 254.1 | 160.2 | 130.6 | 225.5 | 360.7 | 471.7 |
| NLRP1 | 78.4 | 86.6 | 81.2 | 82.5 | 87.3 | 74 | 81.2 | 91.8 |
| NLRP3 | 981.2 | 1289.6 | 871.6 | 777 | 679.6 | 984.1 | 879.6 | 1205.2 |
| NLRP8 | 2301 | 2284.6 | 1059.3 | 2194.4 | 2102.3 | 1368.8 | 2358.8 | 3055.5 |
| NMB | 640.8 | 816.2 | 539.9 | 250.3 | 210.3 | 273.4 | 532.3 | 894.7 |
| NMBR | 85.1 | 93.9 | 93.2 | 83.3 | 83.1 | 85.6 | 82 | 90.6 |
| NMD3 | 1401.9 | 1836.5 | 484.3 | 349.5 | 338.9 | 763.2 | 957.4 | 1724.2 |
| NME1 | 18991.4 | 22163.1 | 11396.7 | 9470.2 | 6925.4 | 12190.8 | 15403.2 | 17875.2 |
| NME1 | 403.2 | 494.5 | 234.7 | 184.6 | 159.2 | 194.2 | 326.1 | 354.7 |
| NME1 | 878.6 | 1174.7 | 503.4 | 415.4 | 386.4 | 468.1 | 728.2 | 818.9 |
| NME1-NMI | 416.2 | 507.8 | 264.7 | 154.9 | 163.3 | 169.7 | 369.1 | 402.3 |
| NME2 | 85.3 | 86 | 89.7 | 80.5 | 94.2 | 80.6 | 86.7 | 88 |
| NME2 | 411.5 | 510 | 315.7 | 212.2 | 180.1 | 221.5 | 319.5 | 329.5 |
| NME2 | 110 | 129 | 102.8 | 101 | 78.3 | 95.9 | 130 | 208.6 |
| NME2 | 442.9 | 491.7 | 190.6 | 174.5 | 159.3 | 180.9 | 403.3 | 349.1 |
| NME2P1 | 95.8 | 103 | 104.2 | 96.2 | 90.5 | 101.1 | 102.5 | 98.9 |
| NME3 | 1400.1 | 1588.4 | 1080.6 | 886.8 | 820.1 | 1172.2 | 1071.1 | 1534.3 |
| NME4 | 3366.3 | 4400.7 | 3262.9 | 2410.3 | 1809.1 | 2552.1 | 3013 | 5438.7 |
| NME5 | 75.4 | 91.6 | 80 | 76.7 | 75.4 | 77.9 | 85.2 | 85.1 |
| NME6 | 444.3 | 569.5 | 322.7 | 264.4 | 217 | 269 | 455 | 507.1 |
| NME7 | 221.5 | 292.7 | 131.3 | 103 | 105.1 | 95.2 | 189.5 | 304.8 |
| NME7 | 638.9 | 767.7 | 303.2 | 205.2 | 173.4 | 223.5 | 466.9 | 648.5 |
| NMI | 2846.9 | 3305 | 862 | 698.3 | 598.1 | 993.2 | 2413.1 | 4256.5 |
| NMNAT1 | 231 | 312.4 | 153 | 154.8 | 146 | 136.1 | 210.2 | 275.1 |
| NMNAT2 | 97.2 | 123.6 | 99.1 | 96.5 | 97.8 | 92.9 | 99 | 121.6 |
| NMNAT2 | 105.2 | 111.8 | 92.4 | 82.8 | 81.8 | 83.8 | 100.1 | 103.4 |
| NMNAT2 | 75.8 | 90.4 | 88.6 | 93.4 | 85.3 | 99.3 | 80.7 | 86.9 |
| NMNAT3 | 638.3 | 859.3 | 320.5 | 261.6 | 257 | 311.1 | 362.4 | 337.7 |
| NMS | 95.6 | 105.8 | 85 | 82.7 | 91.6 | 88 | 97.1 | 101.2 |
| NMT1 | 260 | 292.4 | 218.2 | 225.4 | 233.4 | 244.7 | 228.1 | 212.3 |
| NMT2 | 109.2 | 127.3 | 105.5 | 117.8 | 87.2 | 114.8 | 111.2 | 169 |
| NMU | 81.4 | 102.8 | 96.7 | 81.9 | 82 | 76.9 | 82.5 | 99 |
| NMUR1 | 83.3 | 89.4 | 114.3 | 105.9 | 102.2 | 108.4 | 88.7 | 90.2 |
| NMUR2 | 85.1 | 90.4 | 93.4 | 76.9 | 86.4 | 87.6 | 82.9 | 94.1 |

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|----------|---------|---------|--------|--------|--------|--------|---------|---------|
| NNAT | 88.2 | 85.1 | 80.6 | 87.6 | 88.5 | 86.9 | 79.9 | 85.3 |
| NNAT | 102.3 | 111 | 111.3 | 94.6 | 103.9 | 94.5 | 95.3 | 108.2 |
| NNMT | 218.3 | 256.4 | 143 | 132.6 | 121.2 | 135.2 | 242.7 | 310.8 |
| NNT | 85.3 | 102.1 | 86.4 | 86.8 | 91.6 | 86.9 | 76.7 | 86.6 |
| NNT | 975.1 | 1402.6 | 558.2 | 760.2 | 415 | 1031.9 | 904.6 | 1757.6 |
| NNT | 696.2 | 854.5 | 344.8 | 367.1 | 296.8 | 556.7 | 661.4 | 929.1 |
| NOB1P | 414.1 | 481.4 | 235.9 | 154 | 151.1 | 222.6 | 332.6 | 512.3 |
| NOBOX | 86 | 94.1 | 92.7 | 83.4 | 85.7 | 84.1 | 86.6 | 96.2 |
| NOBOX | 100.4 | 118.2 | 95.4 | 93 | 104.3 | 82.7 | 108.6 | 115.4 |
| NOC2L | 166.5 | 204 | 139.7 | 134.1 | 97.6 | 171.7 | 130.5 | 171.7 |
| NOC3L | 1185.5 | 1375.8 | 765.7 | 685 | 480.1 | 1057.8 | 689.8 | 1113.2 |
| NOC4L | 278.7 | 397.9 | 210.5 | 130.6 | 109.5 | 106.5 | 208.4 | 329.7 |
| NOC4L | 294.8 | 375.3 | 247.5 | 194.5 | 159.2 | 246.6 | 237.5 | 275.7 |
| NOD1 | 151 | 183.2 | 215.4 | 197.9 | 181.8 | 265.7 | 154.6 | 167.2 |
| NOD27 | 174.2 | 188.7 | 158.1 | 117.6 | 118.3 | 124.7 | 126.7 | 142.9 |
| NOD3 | 94.2 | 100.6 | 105.7 | 107.9 | 103.8 | 102 | 95.7 | 96.4 |
| NOD9 | 1352.2 | 1775.2 | 917 | 528.7 | 425.7 | 528.5 | 987.5 | 936.3 |
| NOD9 | 182.1 | 207.8 | 197.2 | 137.7 | 126.5 | 140.5 | 165.2 | 271.4 |
| NODAL | 143.3 | 155.5 | 106.6 | 103.5 | 97.4 | 104.5 | 130.6 | 137.1 |
| NOG | 90.3 | 93.5 | 97.4 | 108.6 | 94.3 | 93.5 | 82.2 | 97.4 |
| NOL1 | 1781.9 | 2191.2 | 1127.1 | 808.9 | 626.3 | 1017.1 | 1190.7 | 1317.7 |
| NOL1 | 117.8 | 134.9 | 92.6 | 82.3 | 86 | 78.9 | 111.6 | 119.2 |
| NOL1 | 273.6 | 293 | 110 | 111.5 | 84.9 | 136.6 | 190.5 | 280.5 |
| NOL10 | 177.7 | 206.9 | 130.2 | 144.8 | 148.1 | 167.3 | 140.1 | 165.1 |
| NOL11 | 2773.3 | 3674.2 | 1082.4 | 932.7 | 663.4 | 1246 | 1942.8 | 2667.8 |
| NOL12 | 633.7 | 604 | 380.9 | 341.3 | 334.1 | 427.3 | 421 | 470.2 |
| NOL3 | 115.6 | 122.7 | 106.1 | 100.1 | 107.9 | 118.5 | 107.1 | 124.9 |
| NOL4 | 105.6 | 106.1 | 116.1 | 101.5 | 95.3 | 92.9 | 94.4 | 100.4 |
| NOL5A | 4017.6 | 4508.9 | 1039.5 | 700.4 | 625.2 | 1177.5 | 3050.4 | 3243.9 |
| NOL6 | 2553 | 2944.4 | 1844 | 1288.9 | 905.2 | 1347.5 | 1519 | 1802.6 |
| NOL6 | 142.4 | 168.9 | 162.1 | 143.4 | 123.8 | 114.5 | 107.5 | 136 |
| NOL7 | 5764.8 | 7564.5 | 3183.2 | 2844.6 | 2398.9 | 3232.7 | 4895.8 | 6373.2 |
| NOL8 | 400 | 429.2 | 276 | 273.7 | 236.3 | 452.9 | 317 | 744.7 |
| NOL9 | 135.2 | 167.9 | 132.6 | 127.6 | 111.6 | 99.8 | 126.9 | 140.7 |
| NOLA1 | 679.1 | 1033.9 | 358.1 | 274.4 | 242.8 | 189.2 | 563.8 | 639.8 |
| NOLA1 | 4987.1 | 5544.8 | 4144.3 | 3035.4 | 2076.2 | 3308.7 | 3817 | 4891.3 |
| NOLA1 | 887.6 | 1230.2 | 619.9 | 427.2 | 326.9 | 513.5 | 724.2 | 803.7 |
| NOLA2 | 2575.9 | 3518.1 | 980.6 | 893.2 | 752 | 1242.2 | 2569.9 | 3158.9 |
| NOLA2 | 2077.1 | 2591.3 | 828.1 | 665.5 | 518 | 737.2 | 1861.8 | 2605.7 |
| NOLA3 | 11806.7 | 14210.8 | 8874 | 8256.1 | 5611 | 7515 | 11500.1 | 13221.6 |
| NOLC1 | 694 | 1019.8 | 587.7 | 307.9 | 262.4 | 421.9 | 507.9 | 797.3 |
| NOM1 | 86.2 | 95.1 | 103.5 | 90.9 | 91.6 | 95.4 | 85.4 | 88.7 |
| NOMO1 | 408.5 | 485.5 | 277.6 | 253 | 222.3 | 355.7 | 337.6 | 476.6 |
| NOMO2 | 84.3 | 99.4 | 91.7 | 85.6 | 83.7 | 97.3 | 85.4 | 93.3 |
| NOMO3 | 373.5 | 424.3 | 180.9 | 165.8 | 162.2 | 106.9 | 181 | 284.5 |
| NONO | 9610.8 | 10330.4 | 5253.2 | 5741 | 5332.4 | 6927 | 8063.6 | 10187.7 |
| NOP5/NOP | 2555.3 | 2699.3 | 350.9 | 278.9 | 248.1 | 412.5 | 2030.8 | 3077.9 |
| NOPE | 135.8 | 165.7 | 97 | 98.2 | 104.4 | 101.1 | 135.6 | 144 |
| NOS1 | 87.4 | 75.4 | 88.9 | 82.1 | 85.1 | 86.5 | 80.2 | 83.1 |
| NOS1AP | 82 | 96.6 | 97.6 | 85.8 | 90.3 | 91.8 | 87.8 | 98.1 |

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|----------|--------|---------|--------|--------|--------|--------|--------|---------|
| NOS2A | 91.2 | 99.1 | 95.8 | 93.4 | 85.2 | 92.7 | 85.9 | 101.6 |
| NOS2A | 86.9 | 99.4 | 86.7 | 88.7 | 77.6 | 84.7 | 87.7 | 100 |
| NOS3 | 289.1 | 348.9 | 205.2 | 170.8 | 129.6 | 142.5 | 220.6 | 168.3 |
| NOSIP | 2226.8 | 3157.7 | 1200 | 673.8 | 610.5 | 946.7 | 2114.7 | 2904.7 |
| NOSTRIN | 77.1 | 86.4 | 91.9 | 91.5 | 96.6 | 88.4 | 87.9 | 91.2 |
| NOTCH1 | 959.1 | 1344.1 | 750.6 | 1039.3 | 848.5 | 932.5 | 919.4 | 752.5 |
| NOTCH2 | 169.6 | 222.4 | 160.6 | 211.9 | 179.3 | 206.3 | 164.5 | 198.9 |
| NOTCH2NL | 124.8 | 127.9 | 97.7 | 89.9 | 83 | 94.1 | 123.9 | 118.2 |
| NOTCH3 | 83.7 | 88.1 | 99.1 | 97.5 | 94.9 | 98.5 | 90.3 | 82.6 |
| NOTCH4 | 99.2 | 108.4 | 104.1 | 97 | 97 | 90.2 | 92.8 | 101.2 |
| NOTUM | 117.5 | 136.3 | 113.6 | 106.4 | 87.1 | 100.8 | 101.4 | 112.5 |
| NOV | 86.5 | 91.6 | 114 | 95.3 | 88.4 | 93.5 | 92.1 | 102.4 |
| NOVA1 | 97.7 | 104.1 | 108.8 | 93.1 | 87.8 | 91.5 | 109.6 | 102.9 |
| NOVA1 | 87.3 | 104.3 | 86.4 | 75.9 | 74.5 | 77 | 87.1 | 102.1 |
| NOVA2 | 147.5 | 181.5 | 98 | 99.3 | 89.4 | 98.9 | 153 | 150.3 |
| NOX1 | 85.3 | 88.5 | 94.5 | 83.5 | 77.5 | 84.2 | 92.6 | 92.7 |
| NOX1 | 102.9 | 101.6 | 92 | 86.5 | 88.6 | 93.7 | 90.9 | 99.2 |
| NOX1 | 98.7 | 106.8 | 101.2 | 93.9 | 96.4 | 93.4 | 98 | 107.3 |
| NOX3 | 77.5 | 83.7 | 102.6 | 86.7 | 90.2 | 88.4 | 90.8 | 75.9 |
| NOX4 | 107.8 | 108.3 | 101.1 | 95.9 | 92.6 | 99.5 | 99.2 | 111.6 |
| NOX5 | 105.7 | 129.5 | 90.6 | 82.8 | 77.1 | 93.8 | 95 | 107.2 |
| NOXA1 | 195.1 | 255.6 | 248.3 | 207.7 | 267.4 | 350.4 | 178.7 | 256.2 |
| NOXO1 | 114.8 | 134.5 | 89.1 | 83.4 | 83.7 | 80.9 | 103.1 | 139.9 |
| NOXO1 | 78.1 | 90.2 | 85.5 | 83.5 | 76.6 | 85.3 | 84.5 | 90 |
| NOXO1 | 109.4 | 130 | 110.7 | 103.7 | 98 | 96.4 | 102.3 | 117.3 |
| NP | 3024.9 | 4533.8 | 2728 | 1446.8 | 1055.5 | 1754.6 | 2635.7 | 2996.9 |
| N-PAC | 668.9 | 840 | 477.2 | 415.6 | 346.6 | 554.4 | 652 | 1436.5 |
| NPAL1 | 86.7 | 97.6 | 88 | 86.6 | 79.1 | 77.5 | 86.3 | 84.7 |
| NPAL2 | 111.7 | 121.3 | 102.6 | 95.6 | 93.1 | 104.3 | 92.1 | 120 |
| NPAL3 | 304.2 | 380.9 | 289.7 | 360.4 | 281.2 | 336.3 | 266.7 | 437.2 |
| NPAS1 | 133.6 | 165.6 | 126 | 115.2 | 116.7 | 111.2 | 116.6 | 131.8 |
| NPAS2 | 125.3 | 140.5 | 112.5 | 100.8 | 101.7 | 103.4 | 117.1 | 136.3 |
| NPAS3 | 110.9 | 130.8 | 84.2 | 84.6 | 83.8 | 84.2 | 130.9 | 138.5 |
| NPAS3 | 83.6 | 98.7 | 84.5 | 85.3 | 85.6 | 85 | 87.2 | 90.7 |
| NPAS3 | 74.6 | 88.4 | 90.2 | 83.3 | 83.5 | 81.2 | 83.3 | 85 |
| NPAS4 | 82.3 | 96 | 119.3 | 96.1 | 97.4 | 102 | 89.9 | 88.2 |
| NPAT | 152.6 | 202.2 | 124 | 131 | 123 | 133.9 | 135 | 179.8 |
| NPB | 97.4 | 122.6 | 98.1 | 80 | 76.5 | 83.3 | 90.9 | 105.1 |
| NPBWR1 | 78 | 85.9 | 85.6 | 80.6 | 78.9 | 79.4 | 76 | 83.2 |
| NPBWR2 | 99.6 | 109.4 | 121.9 | 97 | 107.4 | 103.3 | 101.7 | 102.6 |
| NPC1 | 346.8 | 465.3 | 389.2 | 448.3 | 392.3 | 650.6 | 504.1 | 866 |
| NPC1L1 | 107.9 | 134.2 | 94.1 | 97.8 | 87.2 | 93.4 | 117.4 | 122.8 |
| NPC2 | 8401.7 | 10901.4 | 7477.5 | 7686 | 6213 | 7056.2 | 8461.2 | 10614.2 |
| NPDC1 | 198.6 | 228.2 | 183.6 | 160.9 | 130.5 | 172.1 | 153.7 | 245.7 |
| NPEPL1 | 450.9 | 536.8 | 323.2 | 405.3 | 387.6 | 419.5 | 325.7 | 319.2 |
| NPEPPS | 572 | 778.9 | 387.5 | 554.2 | 431.8 | 803.4 | 567.4 | 1351.1 |
| NPFF | 115.5 | 114.4 | 92.3 | 91.7 | 83.8 | 97.4 | 110.3 | 133.8 |
| NPFFR1 | 106 | 113.4 | 92.3 | 80.3 | 79.9 | 84.9 | 104.2 | 110.6 |
| NPFFR2 | 88.3 | 105 | 93.8 | 90.7 | 83.3 | 89.2 | 88.3 | 108.1 |
| NPFFR2 | 92.4 | 107 | 109.7 | 90.5 | 99 | 107.8 | 98.3 | 116.8 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| NPHP1 | 92.4 | 98.9 | 90.4 | 84.1 | 83.5 | 94.9 | 102.2 | 88.4 |
| NPHP1 | 107 | 121.8 | 107.6 | 85.6 | 85.1 | 98.5 | 110.5 | 124.8 |
| NPHP1 | 87.5 | 102.5 | 83.3 | 79.7 | 78.5 | 85.5 | 91.8 | 101.9 |
| NPHP3 | 175.9 | 204.4 | 186.3 | 252.1 | 225.4 | 340.7 | 155.1 | 231.5 |
| NPHP4 | 173.8 | 191.2 | 175.4 | 176.5 | 145.2 | 213.1 | 137.2 | 211.2 |
| NPHS1 | 88.1 | 90.5 | 87.2 | 89.4 | 82.6 | 98.2 | 84.2 | 87.7 |
| NPHS2 | 115.8 | 149.4 | 88 | 80.1 | 82.7 | 88.1 | 117.1 | 123.8 |
| NPIP | 249.9 | 298.1 | 228 | 206.5 | 192.3 | 315.1 | 259.6 | 494.9 |
| NPL | 273.9 | 332.8 | 195.4 | 172 | 148.4 | 207.9 | 241.2 | 391.5 |
| NPLOC4 | 253.7 | 314.6 | 301.7 | 224.6 | 232.5 | 372.8 | 264.9 | 450.5 |
| NPM1 | 106.3 | 120.7 | 105.3 | 95.2 | 91.9 | 81.8 | 97.2 | 103.2 |
| NPM2 | 156.2 | 204.4 | 119.3 | 131.8 | 123.7 | 169.2 | 141.4 | 153.3 |
| NPM3 | 1616.1 | 1879.2 | 1515.7 | 748 | 475.8 | 799 | 1350.5 | 1628.8 |
| NPNT | 102.8 | 110.9 | 92.6 | 89.9 | 79.4 | 89 | 90.4 | 110 |
| NPPA | 84.3 | 89.7 | 96.5 | 84.5 | 92.9 | 94.9 | 86.7 | 89.1 |
| NPPB | 90.6 | 111.7 | 86.3 | 89.2 | 83.7 | 84.8 | 89.5 | 95 |
| NPPC | 99.2 | 121.7 | 100.2 | 85.7 | 91.7 | 93.1 | 93.3 | 109 |
| NPR1 | 159.6 | 193.9 | 94.6 | 106.7 | 93.6 | 93.8 | 152 | 168.6 |
| NPR2 | 124.8 | 126.2 | 107.7 | 107.7 | 97.3 | 118.4 | 104.8 | 136.4 |
| NPR3 | 117 | 125.2 | 91.9 | 89.9 | 80.8 | 87.2 | 120.5 | 127.4 |
| NPTN | 3086.6 | 3986.5 | 2582.9 | 3208.7 | 2332.3 | 3835.8 | 2889.4 | 5453.6 |
| NPTX1 | 83 | 87.4 | 83.9 | 84.2 | 84.8 | 92.3 | 83.7 | 96.7 |
| NPTX1 | 165.1 | 170.1 | 146.8 | 286.4 | 120.4 | 267.9 | 197.7 | 376.4 |
| NPTX2 | 573.9 | 736.9 | 623.4 | 249 | 183.1 | 305.9 | 363.6 | 822.7 |
| NPTXR | 106 | 114.7 | 97.7 | 98.9 | 93.3 | 96.9 | 94.3 | 112.2 |
| NPY | 201.5 | 249.1 | 165.8 | 95.1 | 89.2 | 94.3 | 213.2 | 280.8 |
| NPY2R | 85.7 | 90 | 93.2 | 88.9 | 86.1 | 89 | 84.3 | 92.1 |
| NPY5R | 105.1 | 107.4 | 101.3 | 77.4 | 82.7 | 79.4 | 91.5 | 111.1 |
| NPY6R | 117.5 | 137.1 | 103.3 | 96.1 | 94.1 | 98.8 | 124.8 | 112.9 |
| NQO1 | 92.6 | 110.6 | 99.5 | 92.5 | 85.3 | 93 | 133.7 | 202.2 |
| NQO1 | 1318.1 | 1978.7 | 886.5 | 590.9 | 445 | 628.8 | 4420.4 | 6381.8 |
| NQO2 | 253.1 | 314.5 | 117.7 | 135.7 | 93.4 | 136.4 | 407.8 | 721.5 |
| NR0B1 | 95.4 | 110.1 | 94.6 | 94 | 79.5 | 89.5 | 95.4 | 98.7 |
| NR0B2 | 81.3 | 91.5 | 88.9 | 88.8 | 83.1 | 90.8 | 91.2 | 82.2 |
| NR1D1 | 94 | 108.4 | 98.6 | 85.4 | 88.1 | 86.6 | 104.4 | 101.6 |
| NR1D2 | 123.3 | 134.9 | 109.9 | 108.3 | 103.3 | 114.9 | 127.3 | 145.7 |
| NR1H2 | 205.9 | 235.1 | 224.9 | 183.9 | 170.6 | 216.4 | 261.1 | 295.1 |
| NR1H3 | 655.2 | 785.7 | 243.8 | 247.6 | 209.2 | 252.9 | 486.1 | 410.9 |
| NR1H4 | 95.8 | 122.4 | 96.1 | 86.4 | 95 | 97.1 | 108.2 | 108.9 |
| NR1I2 | 98.9 | 123.7 | 91 | 93.1 | 84.2 | 91.8 | 93.9 | 101.7 |
| NR1I2 | 119.9 | 142.1 | 96.5 | 96.7 | 89.1 | 94.7 | 119 | 126.8 |
| NR1I3 | 85.3 | 106.7 | 97.8 | 99.1 | 99.4 | 92.8 | 94.8 | 91.1 |
| NR1I3 | 79.3 | 84.9 | 99.8 | 75.8 | 76.7 | 85.8 | 82.9 | 89.4 |
| NR2C1 | 245.7 | 269 | 122.2 | 149 | 128.1 | 188.1 | 196.5 | 289.7 |
| NR2C1 | 148.6 | 176.3 | 115.3 | 133.8 | 107.8 | 141 | 144.6 | 164.5 |
| NR2C1 | 295.8 | 383.3 | 192.6 | 226.4 | 217.1 | 290.6 | 205 | 260.1 |
| NR2C2 | 198.8 | 252.6 | 160.3 | 168.7 | 160.4 | 178.2 | 187.7 | 236.5 |
| NR2E1 | 86.9 | 99 | 98.9 | 93.9 | 86.8 | 100.1 | 82.6 | 86.1 |
| NR2E3 | 96.7 | 99.4 | 93.2 | 87 | 81.8 | 87.4 | 94.6 | 106.7 |
| NR2E3 | 75.8 | 94.1 | 92.9 | 78.9 | 76 | 81.6 | 76.9 | 85.1 |

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|-------|--------|--------|--------|--------|-------|--------|--------|--------|
| NR2E3 | 80.8 | 90.8 | 95.6 | 88.2 | 97.8 | 88.8 | 93.6 | 89.1 |
| NR2F1 | 109.6 | 117.4 | 107.7 | 103.8 | 98.6 | 101.1 | 101.7 | 122.8 |
| NR2F2 | 159.6 | 173.6 | 113.9 | 93.7 | 76.5 | 98.5 | 147.8 | 226.9 |
| NR2F6 | 383.4 | 418 | 360.2 | 304.8 | 252.2 | 340.3 | 380.7 | 412.8 |
| NR3C1 | 166.7 | 208.9 | 123.8 | 156.1 | 139.3 | 180.2 | 148.5 | 169.1 |
| NR3C1 | 96.1 | 101.2 | 104.3 | 105.2 | 95.9 | 85.4 | 96.5 | 96.5 |
| NR3C1 | 115.6 | 140.1 | 92 | 100.1 | 83.5 | 83.2 | 123.6 | 139.9 |
| NR3C2 | 103.1 | 136.2 | 105.2 | 94.5 | 84 | 96.6 | 105.1 | 112.1 |
| NR4A1 | 118.5 | 128.4 | 75.7 | 85.6 | 82.7 | 88.4 | 105.2 | 122 |
| NR4A1 | 89.4 | 89.8 | 93.6 | 88.3 | 82.4 | 85.6 | 84.6 | 91.2 |
| NR4A1 | 114.8 | 110 | 87.5 | 89.8 | 72.2 | 87.7 | 104.6 | 106.5 |
| NR4A2 | 91.3 | 95.9 | 90.5 | 87.3 | 83.4 | 85.8 | 94.8 | 106.2 |
| NR4A3 | 94.1 | 100.1 | 104.7 | 93.3 | 94.1 | 90.9 | 85 | 94.8 |
| NR4A3 | 88.1 | 100.3 | 79.8 | 84 | 74.9 | 84.2 | 91 | 103.8 |
| NR4A3 | 78.6 | 93.7 | 86.9 | 87.9 | 78 | 81.1 | 84.2 | 97.5 |
| NR4A3 | 97.1 | 101.3 | 107.7 | 82.5 | 86.7 | 100.2 | 87.8 | 100.3 |
| NR4A3 | 81.7 | 89.8 | 96 | 91.1 | 91.1 | 90.5 | 88.7 | 89.3 |
| NR5A1 | 83.5 | 88.9 | 97.4 | 83.2 | 91 | 85.3 | 88.1 | 86.3 |
| NR5A2 | 99.9 | 107.2 | 91.8 | 88.8 | 89.4 | 84.5 | 91.5 | 109.2 |
| NR5A2 | 91.3 | 100.7 | 87.2 | 87.5 | 86.8 | 86.5 | 91.5 | 101.9 |
| NR5A2 | 96.5 | 112.1 | 86.1 | 81.2 | 92.1 | 75 | 93.7 | 116.3 |
| NR6A1 | 83.2 | 121.7 | 97.9 | 104.4 | 106.5 | 108.8 | 91.6 | 99.8 |
| NR6A1 | 124.9 | 118.7 | 92.5 | 89.9 | 85.9 | 85.5 | 114.8 | 119.7 |
| NRAP | 72.4 | 83.2 | 99.7 | 90.1 | 89 | 94.4 | 78 | 80.7 |
| NRAP | 69.3 | 82.3 | 91.4 | 79.9 | 84.6 | 86.1 | 80.9 | 76.2 |
| NRAS | 1186.3 | 1337.7 | 665 | 479.7 | 323.4 | 567.1 | 874.6 | 1444.2 |
| NRBP1 | 184.6 | 226.8 | 124 | 119.2 | 102.8 | 142.7 | 156.1 | 211.9 |
| NRBP2 | 487.4 | 418.4 | 384.1 | 484.4 | 439.9 | 587.6 | 280.3 | 362.8 |
| NRCAM | 106.5 | 107.7 | 94.3 | 91 | 85.3 | 92.4 | 108 | 117.4 |
| NRCAM | 117.4 | 108.2 | 85.6 | 72.9 | 75.6 | 88.2 | 128.9 | 135.7 |
| NRD1 | 2695.6 | 3911.1 | 2901.4 | 3282.9 | 2399 | 5581.3 | 2334 | 4190.4 |
| NRF1 | 93.7 | 116.5 | 96.4 | 101.1 | 97.3 | 86.6 | 91.7 | 110.3 |
| NRF1 | 107.9 | 120 | 104 | 103.4 | 90.5 | 97.7 | 90.7 | 111.3 |
| NRF1 | 99.3 | 106.6 | 105.1 | 95.5 | 83.5 | 89.7 | 89.2 | 99.3 |
| NRG1 | 82 | 91.3 | 92.7 | 84.1 | 78.3 | 82.7 | 91.1 | 88.2 |
| NRG1 | 79.1 | 97.3 | 91.2 | 94 | 92.8 | 89.3 | 90.7 | 88.5 |
| NRG1 | 103.9 | 111.7 | 92.3 | 99.9 | 90.9 | 98 | 99.7 | 116.9 |
| NRG1 | 105.5 | 104.4 | 99 | 92.1 | 75.4 | 91.6 | 89.4 | 115.8 |
| NRG2 | 100.4 | 125.2 | 98.4 | 96 | 76.2 | 98.2 | 97.6 | 127.7 |
| NRG2 | 83.1 | 84.3 | 95.8 | 100.8 | 85.6 | 94.2 | 81.8 | 85.5 |
| NRG3 | 97.8 | 100.3 | 99.1 | 86.6 | 90.5 | 86.9 | 90.1 | 105.6 |
| NRG4 | 253.2 | 295.4 | 186.1 | 121.4 | 110.9 | 119.5 | 137.4 | 150.9 |
| NRGN | 329.2 | 467 | 275.7 | 183.1 | 160.7 | 191 | 243.4 | 538.9 |
| NRIP1 | 383.1 | 476.7 | 379.9 | 386.1 | 327.9 | 620.9 | 329.9 | 641.5 |
| NRIP2 | 121.7 | 154.1 | 97.7 | 96.5 | 101.5 | 99.4 | 121.7 | 137.5 |
| NRIP3 | 1120.7 | 1824.9 | 598.2 | 367.3 | 284.1 | 207.2 | 1385.9 | 1804.3 |
| NRK | 120.6 | 143 | 118.6 | 121.1 | 103.5 | 114.6 | 108 | 125.7 |
| NRL | 80 | 89 | 108 | 87.9 | 87.1 | 89 | 82.5 | 88.9 |
| NRM | 220.7 | 251.9 | 175.4 | 178.2 | 135.8 | 140.5 | 216.9 | 353.8 |
| NRN1 | 167.7 | 263.5 | 105.1 | 97.7 | 84.6 | 87.9 | 147.9 | 162.6 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| NRP1 | 122 | 143 | 96.7 | 88.4 | 82.7 | 93.7 | 117.5 | 138.1 |
| NRP1 | 184.3 | 287.6 | 166.1 | 139.4 | 128 | 177 | 175.8 | 281.5 |
| NRP2 | 98.4 | 115.2 | 99.5 | 86.5 | 76.5 | 86.5 | 107.2 | 108.9 |
| NRP2 | 161.8 | 194.4 | 91.6 | 98.1 | 86.9 | 92.9 | 142.5 | 159.6 |
| NRP2 | 87.3 | 101.9 | 90.7 | 81.7 | 80.4 | 84.3 | 96.1 | 104.2 |
| NRTN | 91.6 | 103.5 | 107.8 | 86.5 | 89.4 | 94.2 | 91.6 | 113 |
| NRXN1 | 87.6 | 106.8 | 84.3 | 75.7 | 71.7 | 68.3 | 87.6 | 107.6 |
| NRXN1 | 101 | 113 | 84.8 | 71.5 | 73.3 | 88.2 | 107.9 | 108 |
| NRXN1 | 87.9 | 104.5 | 87.4 | 84.8 | 81.1 | 78.8 | 96.6 | 96.6 |
| NRXN2 | 87.7 | 95.3 | 100.7 | 91.5 | 89.8 | 89.8 | 89.2 | 91.4 |
| NRXN2 | 97.3 | 114.3 | 113.5 | 106.9 | 97.4 | 106.8 | 89.8 | 103.7 |
| NRXN3 | 84.2 | 90.9 | 92 | 82.1 | 77.9 | 83.3 | 90.3 | 85.4 |
| NRXN3 | 72.9 | 77.4 | 100.3 | 92.2 | 89.8 | 92.4 | 78.5 | 83.5 |
| NRXN3 | 107.1 | 124.4 | 90.1 | 88.9 | 81.5 | 83 | 116.2 | 130.5 |
| NS4ATP2 | 1071 | 1283 | 313.3 | 257.3 | 203 | 364.6 | 1074.9 | 1339 |
| NSBP1 | 68.8 | 75.7 | 95.2 | 83 | 78.7 | 83.1 | 72.6 | 71.2 |
| NSD1 | 121.8 | 159.6 | 100.1 | 105.3 | 100.3 | 109 | 123.2 | 147.2 |
| NSD1 | 133.6 | 162.1 | 118.8 | 139.6 | 135.3 | 118.3 | 129.1 | 142.1 |
| NSDHL | 882.1 | 1239.8 | 562.7 | 624.5 | 543.8 | 764.1 | 790.7 | 850.9 |
| NSF | 299.2 | 402.9 | 129.7 | 176.7 | 146.6 | 120.4 | 186.7 | 279.1 |
| NSF | 735.1 | 1099.9 | 515.2 | 581.4 | 443.3 | 930.4 | 595.6 | 968.5 |
| NSF | 4924.3 | 6624.8 | 3778 | 5060.4 | 3771.4 | 6079.4 | 4056.4 | 5554.1 |
| NSFL1C | 327.9 | 382.3 | 313.8 | 301.7 | 248.8 | 346.6 | 327.4 | 610.5 |
| NSFL1C | 396.1 | 500.6 | 334.3 | 355.6 | 276 | 356.5 | 386.6 | 471.6 |
| NSL1 | 162.9 | 196.6 | 100.2 | 95.6 | 88.8 | 98.1 | 143.8 | 178.6 |
| NSL1 | 124.7 | 145.9 | 98.9 | 94.1 | 88.8 | 81.1 | 127.4 | 136.6 |
| NSMAF | 4008.4 | 4722.2 | 3093.1 | 2424.1 | 1828.9 | 3059.5 | 3295.6 | 4640.8 |
| NSMCE1 | 1211.6 | 1501.1 | 615.2 | 492.4 | 407 | 493.5 | 1375.4 | 1403.8 |
| NSUN2 | 2724.1 | 3731.4 | 1252.5 | 1599.3 | 1162.9 | 2028.1 | 2419.8 | 3644.4 |
| NSUN3 | 244.8 | 308.3 | 176.8 | 137 | 118.1 | 156.1 | 237.9 | 336.4 |
| NSUN4 | 884.1 | 1122.6 | 643.4 | 814 | 537 | 832.1 | 770.1 | 978.4 |
| NSUN5 | 593.4 | 620.4 | 298.7 | 232 | 238.7 | 324.8 | 449.3 | 607 |
| NSUN5 | 156.1 | 134.4 | 141.2 | 117.6 | 127.4 | 145.8 | 140.5 | 153.2 |
| NSUN5 | 366.1 | 496.7 | 317.9 | 179.4 | 167.4 | 214.9 | 299.9 | 417.7 |
| NSUN5B | 685 | 861.7 | 411.3 | 285.7 | 264.6 | 334 | 483.1 | 623.2 |
| NSUN5C | 127.5 | 142.5 | 95.1 | 91.2 | 77.6 | 79.7 | 108 | 157.9 |
| NSUN5C | 161.1 | 201.5 | 117 | 111.9 | 101.5 | 103.8 | 173.3 | 207.7 |
| NSUN6 | 159.7 | 184.1 | 97.6 | 89.5 | 85 | 102.6 | 138.7 | 157.4 |
| NSUN7 | 113.5 | 131 | 97 | 90.1 | 76.8 | 89 | 108.6 | 116.2 |
| NT5C | 2723.9 | 3113.3 | 1347.8 | 975.6 | 829.7 | 979.6 | 1986.2 | 1737.4 |
| NT5C1A | 83.4 | 97.1 | 103.4 | 93.5 | 83.8 | 92.9 | 85.4 | 95.4 |
| NT5C1B | 77.4 | 80.5 | 102 | 91.2 | 90.3 | 90.5 | 84 | 82.6 |
| NT5C1B | 76.6 | 91.4 | 87.3 | 85.4 | 84.3 | 90 | 77.2 | 86.2 |
| NT5C2 | 999.6 | 1298.6 | 392.4 | 431.5 | 252.1 | 503.2 | 1042.9 | 1371.2 |
| NT5C3 | 2030.7 | 2630.4 | 1201 | 1039 | 716.5 | 1207.1 | 1821.3 | 3522.9 |
| NT5C3L | 674.2 | 904.8 | 439 | 320.8 | 277.8 | 348.1 | 637.5 | 700.4 |
| NT5DC1 | 127.7 | 121.8 | 102.5 | 102.5 | 100.1 | 108.5 | 112.3 | 142.6 |
| NT5DC2 | 430.6 | 526.2 | 458.3 | 244.6 | 188.8 | 263.2 | 357.4 | 628.1 |
| NT5DC3 | 91 | 105.6 | 98.5 | 107.1 | 112.4 | 99.2 | 91.4 | 100.5 |
| NT5DC3 | 812.8 | 980.9 | 522.8 | 687.4 | 578.5 | 818.9 | 577.7 | 785.2 |

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|----------|--------|--------|--------|--------|--------|--------|--------|---------|
| NT5E | 159.4 | 204.1 | 117.9 | 116.8 | 113.8 | 130.4 | 136.2 | 192.9 |
| NT5M | 95.2 | 120.8 | 102.4 | 99.1 | 102.7 | 103.3 | 89.9 | 104.3 |
| NTAN1 | 961.2 | 1150.1 | 564.9 | 465.9 | 367.3 | 579.1 | 883.4 | 1618.4 |
| NTE | 506.8 | 662.8 | 609.7 | 407.7 | 317.6 | 533 | 403.1 | 737.6 |
| NTF3 | 85.4 | 109.9 | 101.3 | 88.5 | 90.8 | 92.9 | 102.7 | 95.4 |
| NTF5 | 94.2 | 107.6 | 92.4 | 80.5 | 93.2 | 94.3 | 100.7 | 98.2 |
| NTHL1 | 671.7 | 739.3 | 460 | 268.8 | 225.6 | 339.2 | 451.9 | 564 |
| NTN1 | 90.8 | 111.1 | 102.6 | 84.4 | 90.5 | 85.3 | 88.4 | 93.8 |
| NTN2L | 85.7 | 95.4 | 89 | 81 | 71.6 | 77.6 | 84.6 | 91.9 |
| NTN4 | 76.1 | 87.7 | 89.1 | 87 | 80.7 | 85.7 | 86.6 | 91.7 |
| NTNG1 | 72.2 | 74.5 | 85.4 | 79.6 | 70.6 | 79.8 | 78.6 | 84 |
| NTNG2 | 112.9 | 124 | 93.4 | 87.4 | 87.3 | 87 | 100.1 | 107.4 |
| NTRK1 | 125.3 | 140.6 | 96.8 | 88 | 88.8 | 89.8 | 117.6 | 129.6 |
| NTRK1 | 92.5 | 115.5 | 104.4 | 103.6 | 95.6 | 102 | 91.3 | 94.4 |
| NTRK1 | 91 | 92.8 | 89.4 | 87.8 | 85.5 | 82.6 | 94.1 | 96.4 |
| NTRK2 | 91.5 | 97.2 | 88.4 | 93.1 | 86.6 | 85 | 94 | 105.9 |
| NTRK2 | 100.1 | 107.3 | 95.4 | 89.2 | 91.3 | 89.2 | 94.8 | 95.4 |
| NTRK2 | 88.5 | 92 | 88.8 | 81.8 | 77.4 | 86.2 | 87 | 87.7 |
| NTRK3 | 96.1 | 97.3 | 103.1 | 92.5 | 88.2 | 101.2 | 89.7 | 101.4 |
| NTRK3 | 89.8 | 114.7 | 93.1 | 84.5 | 80.4 | 87.7 | 87.7 | 105.1 |
| NTS | 74.9 | 85.5 | 80.8 | 82.3 | 77.5 | 84.9 | 71.1 | 81.6 |
| NTSR1 | 271.6 | 325.2 | 190 | 158.3 | 138.5 | 155 | 209.7 | 223.8 |
| NTSR2 | 94.1 | 99.7 | 90.8 | 96.3 | 83.7 | 84 | 85 | 95.9 |
| NTSR2 | 96.7 | 117.2 | 103.9 | 101.5 | 85 | 93 | 98.8 | 110.1 |
| NUAK1 | 170.5 | 179.5 | 123.9 | 109.8 | 98.5 | 103.5 | 148.3 | 198.7 |
| NUAK2 | 82.1 | 94.3 | 89.5 | 83.7 | 83.4 | 84.5 | 96.2 | 85.2 |
| NUB1 | 89.3 | 101.5 | 101.2 | 79 | 89.6 | 102.2 | 88.3 | 87.3 |
| NUBP1 | 382.5 | 467.6 | 350.9 | 279.8 | 270.8 | 337.4 | 345.1 | 440.2 |
| NUBP2 | 310.1 | 383.2 | 245.2 | 161.5 | 137.1 | 191.5 | 272.1 | 345.8 |
| NUBPL | 696 | 799.7 | 478.6 | 829.5 | 825.1 | 612.4 | 602.4 | 695 |
| NUCB1 | 6281.4 | 8418.7 | 6733.7 | 6980.3 | 5767.3 | 7560.7 | 6772.2 | 10082.4 |
| NUCB2 | 5053.3 | 5943.5 | 2407.3 | 1770.9 | 1394.8 | 2456.4 | 4868.5 | 10249.2 |
| NUCKS1 | 704.8 | 750.5 | 169 | 199.2 | 178.3 | 197.8 | 536.9 | 739 |
| NUDC | 4803.1 | 6141.8 | 4141.6 | 3935.3 | 2793.5 | 3863.2 | 4198.4 | 4390.4 |
| NUDCD1 | 179.3 | 223.1 | 135.3 | 114 | 110.3 | 141 | 152.4 | 214.7 |
| NUDCD2 | 350.4 | 380.2 | 153.6 | 147.7 | 112.7 | 171.3 | 324.6 | 458.6 |
| NUDCD3 | 279.6 | 383.3 | 350.6 | 281.5 | 249.7 | 351 | 235.5 | 356.7 |
| NUDT1 | 384.3 | 473.8 | 172.2 | 141.9 | 129.4 | 139.7 | 375.9 | 359.2 |
| NUDT1 | 3719.1 | 4228.5 | 3118.4 | 2400.4 | 2066 | 2356.2 | 3179.3 | 3084.4 |
| NUDT10 | 93.7 | 100.4 | 71.6 | 73 | 67.9 | 79.6 | 97 | 110.5 |
| NUDT11 | 165.3 | 186.3 | 140.9 | 105.7 | 96.1 | 127.1 | 131.8 | 203 |
| NUDT12 | 75.6 | 104.4 | 91.5 | 78.3 | 78.2 | 81.5 | 84 | 106 |
| NUDT13 | 145.7 | 181.4 | 114.1 | 100.4 | 104.1 | 122.2 | 151.2 | 162.4 |
| NUDT14 | 1965.1 | 2286.7 | 1928.9 | 1587.1 | 1194.3 | 1646.1 | 1916 | 3068.5 |
| NUDT15 | 327.2 | 353.4 | 140.1 | 170 | 126.2 | 136.7 | 271.3 | 412.3 |
| NUDT16 | 231 | 318.9 | 185.5 | 167.7 | 157.8 | 238.5 | 179.3 | 212.8 |
| NUDT16L1 | 896.3 | 1204.5 | 753.4 | 336.4 | 326.9 | 370.9 | 793 | 1193.4 |
| NUDT17 | 109.4 | 135.7 | 96.3 | 83.1 | 89.6 | 90.8 | 95 | 109.3 |
| NUDT18 | 1025.7 | 1343.9 | 799.3 | 519.3 | 382.9 | 643.8 | 740.6 | 956 |
| NUDT2 | 685.7 | 826.2 | 417.9 | 441.8 | 360.5 | 545.6 | 599.1 | 680.2 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| NUDT2 | 1429.1 | 1748.3 | 975 | 1020.3 | 807.9 | 1396.2 | 1233.2 | 1774.6 |
| NUDT21 | 102.1 | 115.9 | 102.7 | 101 | 92.8 | 106.6 | 106.7 | 117.5 |
| NUDT22 | 442.1 | 504.4 | 278.9 | 197.9 | 167 | 216.2 | 352.1 | 579.3 |
| NUDT3 | 2674.6 | 3615.2 | 1935.5 | 1522.9 | 1352 | 2303.3 | 2280.6 | 2616.5 |
| NUDT4 | 83 | 95.5 | 85.5 | 84.6 | 87.8 | 73.2 | 80.7 | 85.7 |
| NUDT4P1 | 117.3 | 132.9 | 83.9 | 77.4 | 74.4 | 83.7 | 103.6 | 112.6 |
| NUDT5 | 2802.1 | 3682.3 | 1221.2 | 564.3 | 399.8 | 520.4 | 2645.9 | 3530.9 |
| NUDT6 | 174.4 | 218.6 | 113.1 | 92.1 | 88.7 | 114.9 | 143.1 | 123.1 |
| NUDT6 | 314.9 | 379.2 | 203.7 | 150.1 | 145.1 | 215.5 | 215.6 | 257.5 |
| NUDT6 | 190.5 | 210.3 | 138.6 | 110.9 | 105.8 | 115.7 | 137.6 | 149.1 |
| NUDT8 | 92.8 | 120.9 | 100 | 100.4 | 94.8 | 97.1 | 94 | 93.1 |
| NUDT9 | 209.7 | 285.7 | 115.2 | 100.4 | 103.7 | 103.7 | 214.1 | 210.2 |
| NUDT9 | 1036.7 | 1368 | 640.7 | 497.6 | 438.1 | 558.4 | 957 | 1445.4 |
| NUDT9 | 137.9 | 154.8 | 111.8 | 97.6 | 86.8 | 98.8 | 132.5 | 131 |
| NUDT9P1 | 78.2 | 88.2 | 87.9 | 84.6 | 79.8 | 92.1 | 70.8 | 86.7 |
| NUF2 | 190.9 | 237.1 | 130.3 | 124.4 | 106.7 | 135.8 | 171.3 | 350.8 |
| NUF2 | 87.5 | 91.8 | 104.5 | 109.1 | 90.4 | 106.6 | 87.4 | 93.5 |
| NUFIP1 | 132.9 | 153.3 | 111.1 | 97.6 | 88.2 | 95.4 | 119.6 | 151 |
| NUFIP2 | 1137.4 | 1347.2 | 382.6 | 488.8 | 373.1 | 564.9 | 1001.7 | 1396.5 |
| NULP1 | 2442.5 | 3271.7 | 1264.6 | 1151.4 | 1064.7 | 1346.1 | 2140.6 | 1953.4 |
| NUMA1 | 202.1 | 278.5 | 252.2 | 305 | 254.7 | 408.2 | 228.5 | 366.8 |
| NUMB | 1499.9 | 1777.4 | 995.1 | 993.1 | 754 | 1019 | 1329.6 | 1873.3 |
| NUMBL | 130.6 | 141.9 | 100 | 86.6 | 87.4 | 89.8 | 122.8 | 170 |
| NUP107 | 1585.1 | 1805.8 | 514.7 | 531.6 | 571.8 | 913.9 | 1081.8 | 1356.2 |
| NUP133 | 1331.2 | 1677.3 | 1298.8 | 837.8 | 644.4 | 1171.2 | 979.5 | 1829 |
| NUP153 | 349.6 | 461.5 | 287.5 | 388.2 | 303.9 | 684.4 | 380.6 | 632.7 |
| NUP155 | 159 | 203.5 | 109.2 | 130 | 112 | 87.1 | 122.8 | 126.3 |
| NUP155 | 1305.6 | 1647.5 | 1411.7 | 1538.8 | 1066 | 2036.1 | 948.8 | 1693.1 |
| NUP160 | 1351.1 | 1751.5 | 1638.5 | 1968.2 | 1268 | 2851.5 | 1326.9 | 2320.6 |
| NUP188 | 275 | 320.5 | 403.3 | 377.8 | 289 | 412 | 254.4 | 534.7 |
| NUP205 | 1841.3 | 2472.8 | 1701 | 1950 | 1421.6 | 2362.7 | 1811.1 | 2704.2 |
| NUP210 | 425.3 | 642.4 | 418.8 | 432.2 | 379 | 576 | 364.5 | 567 |
| NUP210L | 79.5 | 80.2 | 108.3 | 94.9 | 92.7 | 93.4 | 79.7 | 90.1 |
| NUP214 | 1290 | 1714.7 | 1001 | 1033.8 | 822.1 | 1392.9 | 1282.1 | 1828.5 |
| NUP35 | 969.1 | 1244.2 | 337.7 | 228.9 | 186.8 | 298.3 | 721.4 | 991.5 |
| NUP35 | 680.7 | 892.1 | 182.7 | 129.7 | 104.5 | 172 | 497.4 | 732.7 |
| NUP37 | 4404.1 | 6093.9 | 3107.4 | 2443.2 | 1790.4 | 2546.3 | 3509.4 | 4129.1 |
| NUP43 | 230.3 | 281.2 | 140.7 | 174.6 | 137.5 | 117.6 | 207.6 | 333.5 |
| NUP50 | 1602.9 | 1944.9 | 819.6 | 703.1 | 651.1 | 919.1 | 1313.2 | 1686.7 |
| NUP50 | 139.2 | 165.5 | 92.1 | 94.4 | 92.6 | 89.2 | 120.2 | 124.2 |
| NUP50 | 162.3 | 218.5 | 137.1 | 125.2 | 140.7 | 122.2 | 137.4 | 150.7 |
| NUP54 | 1719.3 | 2202.8 | 1095.9 | 1040.9 | 814.8 | 1442.3 | 1441.8 | 2913.6 |
| NUP62 | 623.2 | 793 | 208.4 | 156 | 148 | 167.2 | 476.9 | 995.6 |
| NUP62 | 8521 | 9788.5 | 5794.6 | 4216.3 | 3665.3 | 3642.6 | 5717.9 | 6631.3 |
| NUP85 | 2941.5 | 3966.3 | 2172.1 | 1588.9 | 1336.1 | 2225.7 | 2218.5 | 3122.2 |
| NUP88 | 2618.9 | 3124.4 | 1257.2 | 1265.8 | 988 | 1739.1 | 2242.9 | 2716.8 |
| NUP93 | 1469.9 | 2130.9 | 1470.9 | 1188.6 | 828.8 | 1598.2 | 1044.2 | 1563.8 |
| NUP98 | 190.7 | 229.1 | 123.5 | 105.1 | 108.2 | 114.2 | 148.7 | 153.4 |
| NUP98 | 221 | 263.4 | 197.7 | 146 | 133.6 | 158.2 | 173.5 | 251.5 |
| NUP98 | 143.6 | 158.9 | 92.4 | 94.8 | 99.7 | 104.5 | 135.6 | 162.1 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| NUPL1 | 84.1 | 97.3 | 90.1 | 82.8 | 84.3 | 97.4 | 79 | 84.6 |
| NUPL1 | 223.5 | 242.1 | 112.9 | 109.1 | 102.6 | 98.4 | 172.9 | 240.7 |
| NUPL1 | 278.6 | 387.1 | 157.8 | 127.9 | 147.2 | 134.9 | 234.4 | 297 |
| NUPL2 | 1296.1 | 1684.1 | 711.5 | 870.1 | 724.8 | 1131.5 | 868.1 | 1210 |
| NUPR1 | 189.7 | 240.3 | 146.7 | 173.5 | 196.1 | 318.7 | 270.5 | 312.2 |
| NUS1 | 169.9 | 199.8 | 111.2 | 129.6 | 120.1 | 132.9 | 156.3 | 226.4 |
| NUSAP1 | 7527.3 | 7922.3 | 4558.7 | 3771.1 | 3087 | 4765.4 | 5945.2 | 7203.2 |
| NUSAP1 | 2456.8 | 2955.8 | 812 | 515.4 | 417.2 | 863.3 | 1807.4 | 2494 |
| NUT | 90.8 | 112 | 97.4 | 109.2 | 95 | 104.4 | 103.7 | 103.4 |
| NUTF2 | 428.8 | 539.4 | 156.2 | 118.3 | 110.9 | 116.5 | 348.3 | 434.8 |
| NVL | 105.2 | 101 | 97.1 | 87.8 | 89.4 | 82.4 | 90.3 | 105.2 |
| NVL | 684.4 | 925.7 | 427.5 | 390.1 | 383.2 | 615.6 | 494 | 547.4 |
| NXF1 | 1036.9 | 1288.5 | 987.4 | 623 | 641.4 | 878.4 | 925.6 | 1952.2 |
| NXF1 | 895.2 | 1057 | 853.9 | 669.4 | 613.2 | 716.1 | 787.3 | 1261 |
| NXF2 | 106.9 | 108.9 | 99.8 | 94.1 | 93.3 | 89.6 | 96.6 | 102.3 |
| NXF2 | 73.8 | 78.2 | 90.9 | 95.4 | 84.9 | 80.3 | 77.2 | 83.6 |
| NXF3 | 500.4 | 533.9 | 231.8 | 228.5 | 268.9 | 291.6 | 392.9 | 391.8 |
| NXF4 | 114.4 | 133.5 | 100.5 | 91.8 | 82.9 | 99.5 | 106 | 115.4 |
| NXF5 | 92.8 | 103.9 | 93.8 | 91.4 | 83.6 | 88.1 | 99 | 100.7 |
| NXN | 242.1 | 281.5 | 199.7 | 303.5 | 265 | 325.6 | 226.1 | 270.9 |
| NXPH1 | 92.6 | 102.9 | 105.4 | 100.1 | 93.3 | 97.7 | 87.5 | 104.2 |
| NXPH2 | 91.1 | 92.3 | 82.3 | 79.1 | 85.1 | 78.8 | 95.3 | 90.2 |
| NXPH3 | 101.8 | 115.6 | 104 | 93 | 89 | 93.3 | 104.1 | 111.7 |
| NXPH4 | 86.6 | 102.1 | 109.4 | 89.2 | 83.5 | 82.2 | 85.4 | 107 |
| NXPH4 | 99.7 | 93.7 | 101.5 | 101.5 | 86 | 97.4 | 91.6 | 103.2 |
| NXT1 | 2915.3 | 3899.8 | 2161.5 | 1504.7 | 1101.8 | 1627.1 | 2548.1 | 2728 |
| NXT2 | 1054.9 | 1145.9 | 341.2 | 252.7 | 230 | 302.4 | 711 | 1403.4 |
| NYD-SP14 | 78.2 | 97.3 | 107.7 | 105.2 | 89.4 | 99.3 | 93.4 | 95.4 |
| NYD-SP18 | 96.1 | 103.4 | 90.4 | 80.5 | 77.3 | 75 | 89.4 | 88.8 |
| NYD-SP21 | 368.8 | 390.7 | 197.4 | 171.2 | 164.9 | 271.3 | 269.9 | 467 |
| NYD-SP21 | 250.1 | 304.3 | 151.7 | 137.5 | 138.8 | 152.4 | 201.4 | 295.2 |
| NYD-SP26 | 91.5 | 100.8 | 97 | 93 | 87.8 | 93.5 | 93.9 | 92.5 |
| NY-REN-7 | 91.1 | 94.3 | 95.6 | 88.9 | 93.2 | 106.4 | 97.2 | 96 |
| NY-SAR-48 | 272.3 | 350.2 | 139.8 | 118.4 | 105.3 | 131.4 | 271.8 | 314.2 |
| NY-SAR-48 | 341.2 | 432.1 | 254 | 173.7 | 163.9 | 204.4 | 346.7 | 471.1 |
| NYX | 94.4 | 115.1 | 90.8 | 80.1 | 79.9 | 87.3 | 104 | 123.1 |
| OACT2 | 133.3 | 179.2 | 103.8 | 99.7 | 88.5 | 103.8 | 142.2 | 148.9 |
| OACT5 | 363 | 493.5 | 231.4 | 232.8 | 172.7 | 273.5 | 326.6 | 465.8 |
| OAF | 1566.5 | 1905.8 | 1961.6 | 720.7 | 520.8 | 872.8 | 1132 | 2761.3 |
| OAS1 | 76.5 | 83.8 | 97.1 | 78.8 | 76.3 | 77.7 | 73.7 | 87.3 |
| OAS1 | 172.6 | 220.3 | 126 | 104.9 | 112.5 | 122.8 | 174.1 | 160.5 |
| OAS1 | 182.6 | 229.3 | 140.5 | 112.4 | 128.1 | 126.9 | 173.4 | 168.8 |
| OAS1 | 171 | 193.6 | 106.8 | 88.1 | 93 | 90.2 | 158.6 | 183 |
| OAS2 | 100.9 | 126.9 | 113.9 | 96.3 | 92.7 | 105.8 | 102.2 | 102.5 |
| OAS2 | 101.2 | 103.8 | 101.3 | 90.8 | 88.8 | 94.3 | 95.6 | 115.9 |
| OAS2 | 104 | 108.6 | 83.7 | 84.4 | 75.4 | 79.9 | 97.3 | 104.4 |
| OAS2 | 324.1 | 437.3 | 306.7 | 275.7 | 275.8 | 247 | 263.2 | 271.4 |
| OAS3 | 86.7 | 98.7 | 87.4 | 77.4 | 87.9 | 87.4 | 80.7 | 98.3 |
| OASL | 81.5 | 87.2 | 91.1 | 81.7 | 79.7 | 85.6 | 85.2 | 83.1 |
| OASL | 130.5 | 164.5 | 104.3 | 79.3 | 71.6 | 88.3 | 127.7 | 178.1 |

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|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| OAT | 1468.8 | 2240.2 | 1201.4 | 1024.5 | 858.2 | 1489.2 | 998.4 | 1431.6 |
| OATL1 | 114.8 | 132.1 | 103.5 | 106.3 | 103.9 | 93.2 | 103.1 | 109.7 |
| OATL1 | 87.5 | 108.2 | 97.5 | 104.8 | 95.5 | 109.5 | 99.2 | 113.1 |
| OAZ1 | 33343.2 | 31823.3 | 48060.3 | 35773.8 | 32694.3 | 36220.9 | 32546.9 | 35268.7 |
| OAZ3 | 163.5 | 175.4 | 102.2 | 115.5 | 109.3 | 122.7 | 150.8 | 171.3 |
| OBFC1 | 373.5 | 466.8 | 301.6 | 279 | 253 | 390.7 | 340.8 | 403.6 |
| OBFC2A | 404.2 | 463.7 | 239.7 | 271.8 | 253.2 | 338.3 | 330.8 | 465.3 |
| OBFC2B | 402.2 | 515.5 | 520.9 | 426.6 | 334 | 528.3 | 349.3 | 647.8 |
| OBP2A | 85.4 | 98.3 | 102.2 | 92 | 90.7 | 88 | 90.6 | 112 |
| OBSCN | 103.2 | 106 | 98 | 88.5 | 93.2 | 102.1 | 101.3 | 119.4 |
| OC90 | 86.5 | 98.1 | 94.5 | 88.2 | 91.1 | 81.5 | 85 | 101.4 |
| OCA2 | 84.2 | 91.7 | 105.2 | 89.5 | 80.8 | 84.7 | 82.3 | 98 |
| OCIAD1 | 2983.8 | 3061.2 | 1250.4 | 2530.4 | 2637.4 | 1658.3 | 2860.3 | 3625.8 |
| OCIAD1 | 3897.5 | 4775.1 | 2375.2 | 2275.9 | 1509.4 | 3109.8 | 3000.6 | 6290.8 |
| OCIAD2 | 711.1 | 921.9 | 438.6 | 265.9 | 233.9 | 265.3 | 701.4 | 872 |
| OCIAD2 | 2041.3 | 2531.6 | 1825 | 1443.1 | 1155.6 | 1372.4 | 2300.1 | 2854.9 |
| OCLM | 117.6 | 128.8 | 94.9 | 90.4 | 89.5 | 85.2 | 111.4 | 126.2 |
| OCLN | 81.3 | 89.8 | 100.6 | 86.9 | 87.7 | 77.6 | 77.1 | 85.1 |
| OCLN | 82.9 | 95.5 | 108 | 106.5 | 84.9 | 84.8 | 82.7 | 84.5 |
| OCM | 79.2 | 71.8 | 90.2 | 87.1 | 86.4 | 89.7 | 72.2 | 83.2 |
| OCRL | 320.5 | 451.9 | 314.9 | 472 | 397.4 | 717.4 | 251.3 | 452.3 |
| OCRL | 223.6 | 299.4 | 168.6 | 221.6 | 156.7 | 287 | 180.9 | 232.9 |
| ODC1 | 4203.9 | 5386.7 | 3250.5 | 2275.3 | 1701.6 | 3566.5 | 2885.7 | 5256.4 |
| ODF1 | 82.8 | 98.9 | 87.2 | 92.4 | 85.1 | 90.4 | 85.7 | 94.2 |
| ODF2 | 342.8 | 459.3 | 270.8 | 247.9 | 182.1 | 243.9 | 323.8 | 457.5 |
| ODF2 | 164.5 | 208.5 | 141.2 | 122.5 | 101.8 | 117.7 | 153.6 | 175.9 |
| ODF2 | 855.4 | 1187.6 | 810 | 655.3 | 545.4 | 1063.1 | 732.7 | 1427 |
| ODF2L | 96.3 | 110.5 | 101.6 | 102.1 | 97.5 | 99.7 | 117.4 | 97.8 |
| ODF2L | 106.3 | 107.9 | 90.8 | 79.5 | 93.6 | 85.2 | 95.7 | 97 |
| ODF3L1 | 109 | 110.1 | 110.6 | 90.4 | 88.6 | 100.5 | 103.1 | 102.9 |
| ODF4 | 112.1 | 130.7 | 94 | 92.6 | 84.9 | 84.7 | 117.8 | 112.3 |
| ODZ1 | 79.7 | 79.7 | 89.1 | 86.9 | 83 | 80 | 74.7 | 73.6 |
| ODZ2 | 104 | 109.9 | 106.3 | 101 | 101.4 | 104.8 | 104.4 | 101.7 |
| ODZ3 | 116.8 | 160.7 | 134.9 | 95.5 | 93.8 | 108.7 | 145.1 | 146.4 |
| OFCC1 | 81.1 | 96.5 | 86.8 | 79.3 | 84.7 | 82.8 | 81 | 95.3 |
| OFD1 | 299 | 311.8 | 164.9 | 205.6 | 180.8 | 292 | 239.9 | 408.5 |
| OGDH | 112.6 | 130.3 | 111.5 | 107.6 | 101.3 | 105.3 | 102 | 105.1 |
| OGDH | 89.7 | 96.1 | 84.7 | 93.2 | 88 | 90.1 | 84.7 | 101.8 |
| OGDH | 196.3 | 247.8 | 234.1 | 301.6 | 231.4 | 461.5 | 152.8 | 215.7 |
| OGDHL | 116.9 | 121.1 | 129.8 | 93.9 | 85.4 | 92.7 | 89.2 | 114.4 |
| OGFOD1 | 171.2 | 219.4 | 99.7 | 87.5 | 74.4 | 88.8 | 135.4 | 183.9 |
| OGFOD1 | 756.9 | 904.4 | 499.6 | 334.7 | 256.8 | 513 | 674.4 | 1109 |
| OGFOD1 | 1434.7 | 1747.6 | 1043.1 | 719 | 507.8 | 683.6 | 1107.8 | 1563.2 |
| OGFOD2 | 115.3 | 120.9 | 107.6 | 106.5 | 92.1 | 94.6 | 109.5 | 119.8 |
| OGFR | 402.5 | 505.9 | 642 | 409.1 | 369.4 | 467.1 | 365.4 | 637.3 |
| OGFRL1 | 903.1 | 1214.8 | 314.4 | 290.8 | 216 | 368.9 | 801.4 | 1391.8 |
| OGG1 | 222 | 294.7 | 120 | 121.7 | 131.9 | 116 | 163 | 185.6 |
| OGG1 | 455.6 | 567.4 | 269.8 | 242.3 | 202 | 208.7 | 267.8 | 320.3 |
| OGN | 107.5 | 109.4 | 94.1 | 87 | 90.9 | 82.3 | 106.9 | 109.7 |
| OGN | 77.9 | 84.4 | 93.1 | 99 | 91.9 | 85 | 79.2 | 80.5 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| OGN | 74.1 | 82.9 | 91.1 | 83.2 | 83.3 | 81.1 | 70.3 | 80.7 |
| OGT | 1588.6 | 2197.5 | 1271.2 | 1649.2 | 1397.7 | 2116 | 1121 | 1213.6 |
| OGT | 631.1 | 919.8 | 422.3 | 457.2 | 391.8 | 458.5 | 437.4 | 498.7 |
| OIP5 | 2518.3 | 2886.5 | 1898.8 | 1463.7 | 1123.3 | 1312.7 | 2251.2 | 3330.6 |
| OIT3 | 112.1 | 132.3 | 83.4 | 86.5 | 77.8 | 94.6 | 105.4 | 133 |
| OLFM1 | 107.5 | 119 | 91.9 | 87.8 | 83.9 | 85.8 | 117.2 | 121.8 |
| OLFM1 | 78.6 | 94.1 | 93 | 81.6 | 82.8 | 78.4 | 77.8 | 85.2 |
| OLFM1 | 123.1 | 149.8 | 101.3 | 93.8 | 83.2 | 101.3 | 116.9 | 155 |
| OLFM2 | 94.3 | 107.9 | 86.7 | 69.7 | 96.9 | 79.7 | 92 | 105.3 |
| OLFM3 | 81.7 | 78.1 | 84.5 | 84.1 | 70.5 | 73.3 | 82.4 | 82.3 |
| OLFM4 | 89.2 | 89.3 | 89.1 | 84.2 | 85 | 81.9 | 82.7 | 89.3 |
| OLFML1 | 78.9 | 90.2 | 103.9 | 93.3 | 86.2 | 86.8 | 84.4 | 92.5 |
| OLFML2A | 81.8 | 93.4 | 86.9 | 80.9 | 84 | 91.4 | 86.8 | 94.6 |
| OLFML2B | 100.8 | 98.7 | 96.1 | 89.5 | 86.2 | 95.6 | 96.8 | 98.6 |
| OLFML3 | 211.7 | 275.7 | 181.3 | 237 | 190.5 | 361.1 | 203.1 | 293.3 |
| OLIG2 | 415.5 | 603.7 | 423.3 | 397.7 | 396.5 | 459.5 | 388.8 | 481.3 |
| OLIG3 | 104.7 | 104.2 | 90.4 | 101.8 | 93.6 | 99.3 | 94.8 | 107.2 |
| OLR1 | 86.2 | 106.2 | 85.4 | 88.3 | 90.9 | 101.3 | 84.6 | 95.1 |
| OMA1 | 149.5 | 161.7 | 97.7 | 101.5 | 82.8 | 105.6 | 142.8 | 173.2 |
| OMD | 113.5 | 139.4 | 97 | 99.5 | 86.7 | 94.1 | 118.8 | 129 |
| OMG | 98.4 | 103.3 | 85.4 | 81.3 | 87.8 | 82.8 | 87.4 | 104 |
| OMP | 82.9 | 80 | 87.9 | 89.8 | 78 | 81.1 | 76.4 | 85 |
| ONECUT1 | 116 | 119.3 | 97.2 | 78.5 | 76.3 | 86.9 | 110.5 | 125.5 |
| ONECUT2 | 125.6 | 140.8 | 113.7 | 147.9 | 131.9 | 114.6 | 100.5 | 115.1 |
| ONECUT3 | 72.6 | 86.2 | 99.3 | 88.1 | 82 | 92.5 | 73 | 81.8 |
| OPA1 | 682 | 888.9 | 495.5 | 708.5 | 451 | 866.9 | 562.9 | 1067.3 |
| OPA1 | 94.1 | 91.2 | 95.8 | 91.1 | 81.8 | 90 | 88.8 | 100.1 |
| OPA3 | 136.4 | 160.1 | 94.6 | 96.3 | 94.8 | 86.6 | 133.3 | 143.8 |
| OPA3 | 595.9 | 741.2 | 269.6 | 397.3 | 295.3 | 221 | 523.4 | 492.5 |
| OPCML | 90.4 | 99.1 | 87.5 | 78.2 | 76.9 | 82.2 | 86.2 | 93.7 |
| OPCML | 119.5 | 130.8 | 101.9 | 112.9 | 97.6 | 111.2 | 113.5 | 122.9 |
| OPHN1 | 83.3 | 99.4 | 98.1 | 88.5 | 88.3 | 88.1 | 92.4 | 98.2 |
| OPLAH | 137.2 | 158.6 | 116.9 | 118.2 | 100.3 | 114.6 | 122.4 | 158.8 |
| OPLAH | 563.8 | 648 | 501.7 | 576.5 | 480.7 | 622.9 | 426.9 | 575.5 |
| OPN1LW | 99.3 | 101.2 | 89.9 | 84.6 | 80.9 | 83.6 | 106.9 | 105.4 |
| OPN1MW | 77.6 | 80.8 | 91.7 | 87.7 | 77.1 | 87.9 | 78.2 | 83.3 |
| OPN1SW | 99.3 | 113.5 | 110.2 | 104.9 | 103.8 | 92.5 | 103.7 | 103.7 |
| OPN3 | 535.3 | 796.7 | 387 | 294.5 | 237.8 | 353.2 | 426.2 | 644.5 |
| OPN3 | 179 | 226.5 | 134.3 | 98.9 | 98.8 | 122.1 | 144.5 | 170.9 |
| OPN3 | 242.4 | 307.5 | 152.2 | 119.7 | 106.2 | 121.6 | 186.4 | 236.7 |
| OPN4 | 83.7 | 98 | 88.1 | 78.3 | 86.4 | 86.9 | 84.6 | 95.2 |
| OPN4 | 83.9 | 97.4 | 93.9 | 82.9 | 84.8 | 94.1 | 88.8 | 98.7 |
| OPN5 | 87.7 | 98.1 | 98.5 | 93.1 | 92.8 | 90.5 | 87.4 | 92.1 |
| OPN5 | 117.1 | 127.6 | 104.7 | 93.3 | 90 | 94 | 116 | 124.9 |
| OPRD1 | 141.6 | 176.9 | 107.4 | 90.2 | 91.7 | 102 | 143.7 | 140.1 |
| OPRK1 | 131.1 | 149.6 | 99.2 | 103.6 | 98.4 | 93.8 | 127.5 | 124.1 |
| OPRL1 | 345.9 | 366.7 | 263.4 | 312.7 | 264.4 | 351.3 | 251.5 | 273.4 |
| OPRL1 | 105.3 | 141.4 | 89 | 89.3 | 92.4 | 88.8 | 123.2 | 139.6 |
| OPRL1 | 81.8 | 94.6 | 81.9 | 75.5 | 79 | 74.5 | 87.2 | 94.5 |
| OPRM1 | 166.5 | 194 | 115.5 | 115.6 | 99.2 | 115.2 | 144.8 | 166.1 |

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|---------|--------|-------|-------|-------|-------|-------|-------|--------|
| OPRM1 | 66.1 | 79 | 86.5 | 81.5 | 87.3 | 84.1 | 78.8 | 74 |
| OPRM1 | 155.2 | 159 | 118.4 | 101.5 | 103.1 | 112.6 | 148.4 | 158.8 |
| OPRM1 | 78.5 | 91 | 85.6 | 79.9 | 80.6 | 81.8 | 83.1 | 85.5 |
| OPRM1 | 71.9 | 78.6 | 79.1 | 79 | 72.7 | 78.8 | 75.9 | 76.8 |
| OPRM1 | 78.3 | 96.4 | 89.7 | 89 | 84.6 | 93.4 | 89 | 97.7 |
| OPRS1 | 233.5 | 345.3 | 217.3 | 198.8 | 185.6 | 300.5 | 212.2 | 564.1 |
| OPRS1 | 1213.8 | 1457 | 686.9 | 443.2 | 345 | 650.9 | 936 | 1884.6 |
| OPTC | 93.7 | 102.9 | 98.9 | 96.5 | 94.2 | 96.2 | 101.8 | 96 |
| OPTN | 140.3 | 156.5 | 147.2 | 165.6 | 202.4 | 180.6 | 130.8 | 165.9 |
| OR10A2 | 83.2 | 96.9 | 88 | 83.7 | 83.3 | 87.3 | 92 | 96.4 |
| OR10A3 | 82.6 | 90.4 | 94.1 | 80.8 | 78.6 | 84.3 | 84.7 | 88 |
| OR10A4 | 79.9 | 87.5 | 86.4 | 87.5 | 81.9 | 76.9 | 87.3 | 88.2 |
| OR10A5 | 73.2 | 83.2 | 83 | 74.8 | 73.6 | 74.8 | 71.7 | 73.6 |
| OR10A6 | 97.4 | 119.5 | 90.3 | 88.7 | 93.1 | 89.9 | 100.5 | 95 |
| OR10A7 | 101.3 | 110 | 96.1 | 93 | 97.1 | 92.1 | 94.1 | 116.8 |
| OR10AD1 | 97.5 | 101 | 105.6 | 99.5 | 93 | 98.2 | 101.8 | 111.2 |
| OR10AG1 | 102.9 | 114.1 | 81.9 | 79.9 | 80.2 | 87.1 | 103.5 | 95.8 |
| OR10C1 | 75 | 77 | 94.4 | 91.5 | 87.1 | 90.8 | 81.1 | 77.8 |
| OR10G2 | 90.4 | 116.6 | 95.3 | 86.5 | 83.1 | 81.6 | 97 | 97.9 |
| OR10G3 | 81.2 | 98.7 | 98.1 | 94.1 | 91.8 | 97.6 | 82.4 | 94 |
| OR10G4 | 83.7 | 99.2 | 92.2 | 83.7 | 89.5 | 91.4 | 91.9 | 97.9 |
| OR10G7 | 100.3 | 111 | 97.2 | 94.6 | 86.1 | 89 | 97.9 | 101.3 |
| OR10G8 | 79.8 | 93.5 | 103.7 | 89.3 | 82.5 | 90.7 | 82.9 | 87.3 |
| OR10G9 | 77.9 | 81.8 | 93.7 | 82.6 | 81.3 | 77.7 | 78.9 | 84.3 |
| OR10H1 | 70.9 | 84 | 83.4 | 76.9 | 76.9 | 79 | 73.8 | 82.1 |
| OR10H2 | 88.5 | 95 | 87.3 | 79.5 | 79 | 83.9 | 88.2 | 93 |
| OR10H3 | 82 | 89.4 | 95.9 | 90.1 | 88.4 | 94.5 | 90.6 | 87.7 |
| OR10H4 | 77.5 | 73.8 | 93.9 | 84.2 | 76.3 | 81.8 | 77.3 | 77.9 |
| OR10H5 | 96.3 | 95.8 | 90.4 | 85.4 | 87.4 | 78.7 | 84.3 | 103 |
| OR10J1 | 117.5 | 128.1 | 116.6 | 111.4 | 96.1 | 101.8 | 124.3 | 120.3 |
| OR10J3 | 75.6 | 89 | 97.5 | 88.5 | 79.8 | 86.5 | 78.8 | 80 |
| OR10J5 | 74.3 | 88.2 | 99.9 | 95.6 | 83.5 | 88.7 | 86.6 | 88.4 |
| OR10K1 | 82.1 | 90 | 99.5 | 93.6 | 87.9 | 85.3 | 82.7 | 78.2 |
| OR10K2 | 72.9 | 80.7 | 98.6 | 82.4 | 88.1 | 87.8 | 80.4 | 93.3 |
| OR10P1 | 79 | 87.7 | 98.9 | 84.7 | 84.3 | 88.5 | 87.7 | 80.3 |
| OR10Q1 | 68.6 | 81.6 | 91.8 | 82.2 | 76.5 | 83.5 | 72.6 | 81.5 |
| OR10R2 | 93.7 | 90.7 | 104.8 | 88.5 | 87.9 | 96.2 | 87.1 | 89.6 |
| OR10S1 | 86.7 | 98.2 | 107.2 | 97.8 | 97.7 | 100.5 | 83.3 | 95.6 |
| OR10T2 | 81.1 | 95.5 | 89.6 | 83.8 | 86.3 | 84.5 | 94.6 | 101.8 |
| OR10V1 | 82.8 | 103.5 | 79.4 | 91.9 | 79.6 | 91.4 | 85.2 | 108.9 |
| OR10W1 | 89.9 | 93.1 | 94.4 | 96.2 | 87.8 | 103.4 | 83 | 87.9 |
| OR10X1 | 82.7 | 96.2 | 94.8 | 82.6 | 80.7 | 80.4 | 86.6 | 99.1 |
| OR10Z1 | 81.7 | 92.5 | 86.6 | 86.3 | 74 | 86.8 | 92.6 | 95.4 |
| OR11A1 | 89 | 105 | 93.1 | 89.2 | 79.6 | 74 | 85.4 | 88.5 |
| OR11G2 | 104.2 | 124.7 | 89.7 | 80.8 | 89.6 | 78.6 | 98.4 | 100.7 |
| OR11H1 | 89.6 | 109.9 | 90.5 | 83.7 | 76.4 | 77.4 | 89 | 106 |
| OR11H12 | 92.8 | 108.3 | 98.2 | 96.8 | 88.3 | 90.3 | 89.8 | 95.3 |
| OR11H12 | 141.2 | 156 | 102.5 | 95.5 | 89.5 | 93.3 | 140.8 | 146.1 |
| OR11H4 | 104.2 | 106.1 | 107.2 | 87.5 | 96.5 | 103.9 | 97.4 | 107.3 |
| OR11H6 | 85.2 | 82.4 | 86.7 | 81.5 | 79.2 | 88.7 | 89.5 | 86.6 |

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|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| OR11L1 | 176.1 | 201.5 | 137.1 | 114.3 | 92.4 | 116.6 | 143.3 | 179.6 |
| OR12D2 | 100.1 | 113.8 | 104.9 | 98.2 | 89.2 | 97.9 | 101.2 | 102.9 |
| OR12D3 | 78.4 | 93.8 | 85.3 | 82.4 | 80.4 | 87.4 | 91.7 | 95.3 |
| OR13A1 | 94.3 | 103.2 | 108.5 | 107.8 | 80.7 | 97.2 | 99.1 | 112.8 |
| OR13C2 | 97.8 | 90.8 | 104.4 | 86.7 | 88.4 | 92.6 | 91.4 | 94.7 |
| OR13C3 | 96.4 | 93.4 | 92 | 87.3 | 85.4 | 76 | 81 | 87 |
| OR13C4 | 74.8 | 98.4 | 82.1 | 84.5 | 88.5 | 81.6 | 78.8 | 97.6 |
| OR13C5 | 78.4 | 82.9 | 86.7 | 84.1 | 87.3 | 81.9 | 87.9 | 82.4 |
| OR13C8 | 82.1 | 87.7 | 96.7 | 94.3 | 77.8 | 85 | 89.7 | 86.9 |
| OR13C9 | 98.6 | 122.3 | 103.9 | 88.5 | 89.6 | 93.9 | 101.1 | 98.9 |
| OR13D1 | 76 | 92.4 | 101.9 | 80.1 | 87.6 | 94.4 | 78.3 | 84.2 |
| OR13F1 | 84 | 88.9 | 91.7 | 77.9 | 77.8 | 85 | 79.6 | 80.5 |
| OR13G1 | 82.4 | 92.2 | 101.6 | 98 | 88.5 | 97.3 | 85.4 | 85.8 |
| OR13H1 | 98.6 | 111.6 | 88.7 | 88.4 | 77.6 | 93 | 100.1 | 109.2 |
| OR13J1 | 81.3 | 99.9 | 92.8 | 94.8 | 89.5 | 89.6 | 84 | 70.8 |
| OR1A1 | 81.7 | 99.4 | 95.1 | 91.6 | 80.7 | 89.8 | 86.9 | 102.3 |
| OR1A2 | 91 | 111.4 | 107.2 | 93.1 | 93.5 | 91.1 | 93.4 | 112.7 |
| OR1B1 | 85.9 | 93.7 | 93.2 | 89.6 | 93 | 86.9 | 91 | 101.6 |
| OR1C1 | 92.1 | 101.8 | 93.4 | 90.4 | 84 | 96.3 | 95 | 94.3 |
| OR1D2 | 135 | 176.6 | 100.7 | 93.7 | 92.3 | 88.8 | 145.6 | 159.9 |
| OR1D4 | 102.3 | 115.3 | 103.1 | 96.6 | 89.6 | 89.2 | 112.2 | 102.7 |
| OR1E1 | 93.9 | 123.4 | 91.4 | 88 | 88.6 | 88.7 | 106.1 | 113.7 |
| OR1E2 | 77.5 | 85 | 82.6 | 78.1 | 75 | 78.8 | 79.9 | 79.5 |
| OR1F1 | 84.8 | 97.4 | 90.7 | 90.5 | 83.8 | 81.1 | 92.2 | 90.9 |
| OR1F2 | 81.6 | 80.2 | 90.8 | 97.3 | 88.3 | 84.1 | 89.3 | 91.7 |
| OR1G1 | 109 | 141.3 | 94.6 | 92.6 | 89.2 | 89.3 | 110.1 | 102 |
| OR1I1 | 95.9 | 121.1 | 93.1 | 86.4 | 79.4 | 86.3 | 91.8 | 114.9 |
| OR1J1 | 92.5 | 98.8 | 99.1 | 98.4 | 92.6 | 93.2 | 94 | 106.8 |
| OR1J2 | 103.2 | 127.4 | 102.9 | 91.3 | 88 | 105.2 | 100.2 | 106.1 |
| OR1J4 | 99.4 | 108.9 | 99.4 | 95.8 | 84.4 | 89.6 | 92.6 | 107.2 |
| OR1K1 | 100.6 | 130.4 | 78.4 | 91.7 | 83.5 | 78.8 | 93.4 | 119 |
| OR1L1 | 81.4 | 93.3 | 100.4 | 98.4 | 87.3 | 87.9 | 91.9 | 101.2 |
| OR1L3 | 71 | 80.5 | 92.5 | 78.5 | 76.2 | 72.9 | 76.4 | 83.7 |
| OR1L4 | 88.7 | 94.2 | 98.6 | 94.4 | 84.1 | 87.3 | 93.3 | 106.4 |
| OR1L6 | 106.9 | 127.6 | 84.5 | 92.4 | 78.9 | 93.6 | 99.4 | 118.2 |
| OR1L8 | 108.5 | 127.6 | 93.5 | 89.8 | 82.3 | 92.3 | 111.5 | 112.5 |
| OR1M1 | 81.2 | 88 | 86.8 | 90.1 | 83.5 | 89.1 | 86.7 | 78.3 |
| OR1N1 | 97.9 | 110.6 | 99.8 | 102 | 96.2 | 90.2 | 95.4 | 96 |
| OR1N2 | 110.9 | 113.1 | 98.5 | 93.8 | 86.4 | 96.5 | 112.2 | 114.5 |
| OR1Q1 | 85.7 | 85.1 | 82 | 77.2 | 77.5 | 78.9 | 80.2 | 83.1 |
| OR1S1 | 80.7 | 83.9 | 87.4 | 85.1 | 79.8 | 79.5 | 80.8 | 77.3 |
| OR1S2 | 68 | 83.7 | 90.4 | 83.3 | 85.6 | 83.8 | 74.5 | 85.4 |
| OR2A1 | 128.4 | 172.5 | 124.4 | 118.6 | 114.9 | 112.4 | 130.4 | 145.9 |
| OR2A12 | 87.5 | 93.5 | 91.3 | 85.7 | 75.9 | 87.5 | 86.9 | 88.2 |
| OR2A14 | 106.4 | 128.4 | 95.3 | 87.3 | 85.3 | 78.2 | 110.4 | 130.7 |
| OR2A2 | 103.2 | 114.3 | 88.3 | 93.1 | 79.5 | 88.8 | 100 | 110 |
| OR2A20P | 115.2 | 150.3 | 98.7 | 86.4 | 77.8 | 88.2 | 112.8 | 153.7 |
| OR2A25 | 93.5 | 116.2 | 94.8 | 79.9 | 83.7 | 95.3 | 96.9 | 112.3 |
| OR2A42 | 100.1 | 101.5 | 82 | 80.8 | 76.8 | 80 | 100.1 | 133.8 |
| OR2A5 | 140.3 | 167.5 | 103.3 | 105.5 | 94.4 | 107.8 | 136 | 156.1 |

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|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| OR2A7 | 85.5 | 107.2 | 98.6 | 89.6 | 74.6 | 86.2 | 86 | 96.4 |
| OR2A9P | 226.8 | 338.3 | 220.1 | 194.5 | 170.6 | 208.1 | 230.4 | 388.1 |
| OR2AE1 | 81.4 | 92.9 | 87.8 | 81.2 | 79.8 | 86 | 80 | 88.8 |
| OR2AG1 | 88.2 | 101.2 | 107.9 | 99.5 | 109.5 | 110 | 85.1 | 97.1 |
| OR2AG2 | 88.6 | 109.1 | 99.3 | 82.5 | 95 | 90.4 | 98.6 | 98.9 |
| OR2AK2 | 130.5 | 135.2 | 91.5 | 93.2 | 79.8 | 93.7 | 130.9 | 135.6 |
| OR2AT4 | 88.9 | 97.2 | 77.6 | 80.1 | 73.7 | 77.7 | 99.9 | 91.3 |
| OR2B11 | 87.6 | 99.4 | 92.2 | 91 | 93.3 | 92.3 | 88.5 | 89.4 |
| OR2B2 | 96.6 | 131.4 | 99.5 | 92 | 92.3 | 93.2 | 99.2 | 116.7 |
| OR2B3 | 85.6 | 99.7 | 83.8 | 91.3 | 81 | 78.4 | 95.7 | 108 |
| OR2B6 | 85.1 | 85.9 | 102.7 | 97.7 | 98.8 | 89.8 | 90.1 | 87.8 |
| OR2C1 | 107.4 | 113.3 | 93.6 | 86.3 | 81.4 | 92.5 | 88.2 | 112 |
| OR2C3 | 95.2 | 107.7 | 86.1 | 97.9 | 84.6 | 92.3 | 89.8 | 104.1 |
| OR2D2 | 91.6 | 93.4 | 86.2 | 88.3 | 85.2 | 84 | 84.6 | 94.7 |
| OR2D3 | 87.6 | 106.8 | 98.8 | 85.8 | 90.4 | 79.9 | 87.9 | 83.1 |
| OR2F1 | 82.1 | 99.7 | 84.8 | 78 | 82.9 | 85.7 | 82.4 | 91.7 |
| OR2F2 | 88.6 | 109.7 | 92.9 | 88.2 | 84.8 | 83.5 | 92.8 | 96.7 |
| OR2G2 | 90 | 100.8 | 90.2 | 89.9 | 83.3 | 92 | 93.5 | 99.8 |
| OR2G3 | 99.9 | 102.8 | 102 | 94.9 | 103.4 | 98.5 | 98.1 | 87.8 |
| OR2G6 | 82.4 | 91.5 | 80.7 | 86.1 | 81.6 | 82.7 | 78.8 | 92 |
| OR2H1 | 79.3 | 81.1 | 101.1 | 87.5 | 80 | 82.1 | 75 | 82.5 |
| OR2H2 | 179.2 | 226.3 | 118.4 | 106.2 | 88.6 | 106.6 | 170.1 | 195.2 |
| OR2J2 | 79.2 | 79.5 | 89.2 | 83.5 | 87.6 | 82.6 | 79.6 | 83.7 |
| OR2J3 | 95.5 | 90.2 | 101.4 | 87.6 | 85.6 | 82.1 | 93.2 | 99 |
| OR2K2 | 73.1 | 80.7 | 84.4 | 83.5 | 74.7 | 76.6 | 71.8 | 74 |
| OR2L13 | 83.7 | 102.7 | 93.8 | 87.2 | 86.1 | 86.8 | 86.5 | 89.2 |
| OR2L1P | 75.7 | 82.3 | 97.2 | 95.5 | 75.7 | 82.5 | 76.6 | 82.1 |
| OR2L2 | 81.1 | 82.6 | 92.6 | 83.9 | 76.6 | 83.6 | 73.6 | 76.9 |
| OR2L3 | 135.2 | 146.1 | 105.8 | 102.2 | 89.3 | 94.9 | 117.6 | 158.4 |
| OR2L8 | 94.5 | 101.1 | 90.3 | 84.6 | 72.9 | 87 | 99.7 | 100.5 |
| OR2M1P | 87.5 | 100.7 | 80.4 | 78.7 | 87.9 | 90.6 | 80.5 | 95.3 |
| OR2M2 | 109.6 | 110.5 | 95.5 | 78.7 | 80.6 | 87.2 | 110.7 | 107.3 |
| OR2M3 | 78.2 | 94.4 | 93.5 | 84.7 | 81.9 | 91.8 | 84 | 89 |
| OR2M4 | 90.2 | 88.5 | 89.8 | 88.3 | 88.2 | 95.9 | 79.9 | 88.1 |
| OR2M5 | 88.4 | 112.4 | 97.9 | 88.2 | 84.4 | 89.4 | 103 | 110.6 |
| OR2M7 | 81.6 | 91.3 | 99.1 | 83.4 | 84.9 | 91.7 | 85.7 | 89 |
| OR2S2 | 83.5 | 91.3 | 101.2 | 89.5 | 86.9 | 86 | 84.2 | 97.3 |
| OR2T1 | 116 | 139.1 | 90.3 | 82.2 | 83.3 | 92.4 | 113.4 | 137.9 |
| OR2T10 | 80.3 | 95.7 | 86.9 | 88.4 | 90.8 | 69.9 | 72.9 | 80.2 |
| OR2T11 | 112.4 | 125.5 | 95.5 | 92.3 | 94.2 | 106.3 | 109 | 123.3 |
| OR2T12 | 76.6 | 85.2 | 87.9 | 68.1 | 82 | 79 | 79.3 | 78.9 |
| OR2T27 | 71.9 | 94.8 | 87.1 | 81.7 | 83.9 | 79.6 | 81.2 | 82.6 |
| OR2T3 | 84.7 | 79.9 | 86.7 | 82.8 | 87.8 | 74.6 | 75.3 | 78.7 |
| OR2T33 | 106.6 | 120.1 | 94.4 | 98.3 | 97.4 | 89.8 | 116.7 | 101.4 |
| OR2T35 | 95.2 | 109.6 | 94.2 | 82.6 | 78.5 | 92.1 | 106.4 | 102.1 |
| OR2T4 | 82.5 | 90.9 | 86.1 | 80.3 | 77.5 | 78.7 | 78.6 | 95.5 |
| OR2T5 | 85.5 | 85.7 | 89.3 | 84.2 | 91.3 | 87.5 | 82.9 | 85.7 |
| OR2T6 | 88.4 | 104.1 | 104.2 | 97.8 | 90.5 | 98.6 | 95.1 | 108.9 |
| OR2T8 | 105.8 | 134.4 | 90.7 | 78.1 | 72.7 | 79.1 | 114.8 | 125.2 |
| OR2V2 | 89.9 | 96.7 | 99.5 | 96.6 | 94.5 | 90.8 | 96.5 | 101.8 |

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|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| OR2W1 | 81.4 | 100 | 78.2 | 70.9 | 70 | 78.4 | 85 | 95.1 |
| OR2W3 | 129.9 | 153 | 97.1 | 107.7 | 114.2 | 94.9 | 126.4 | 116.7 |
| OR2W5 | 102.3 | 121.9 | 125.2 | 112.3 | 98.2 | 122.3 | 89.4 | 103.3 |
| OR2Y1 | 75.8 | 81.6 | 99.3 | 96.8 | 86.8 | 94.5 | 68.7 | 86.2 |
| OR2Z1 | 87.3 | 103.9 | 86.3 | 93.3 | 92 | 82.2 | 89.8 | 98.9 |
| OR3A1 | 111.8 | 132.1 | 93.6 | 88.4 | 86.6 | 88.1 | 101.3 | 140 |
| OR3A2 | 104.1 | 107.4 | 102.7 | 101.1 | 89.8 | 99.6 | 100.1 | 107 |
| OR3A3 | 76.4 | 93.2 | 92.7 | 78.7 | 79.4 | 79.3 | 81.2 | 88.1 |
| OR3A4 | 199.9 | 290.3 | 146.2 | 180 | 152.6 | 191.9 | 203.9 | 252.7 |
| OR4A15 | 148.4 | 160.7 | 106 | 85.2 | 77.1 | 91.1 | 148.7 | 165.6 |
| OR4A16 | 98.9 | 104.4 | 85.9 | 88.6 | 75 | 82.2 | 88 | 110.7 |
| OR4A47 | 80.2 | 97.2 | 96.1 | 79.6 | 82.4 | 81.5 | 75.9 | 94.4 |
| OR4A5 | 67 | 84.7 | 93 | 87 | 81.5 | 90.7 | 76.8 | 87.1 |
| OR4B1 | 87.2 | 101.3 | 105.6 | 89 | 93.8 | 87.7 | 89 | 89.2 |
| OR4C11 | 105.4 | 114.1 | 99.7 | 91.6 | 91.6 | 98.2 | 100.5 | 109.5 |
| OR4C12 | 81.9 | 96.4 | 83.7 | 80 | 88.4 | 86.6 | 78.4 | 85.4 |
| OR4C13 | 100.4 | 113.4 | 78.5 | 88.2 | 84 | 93.3 | 98.5 | 116.7 |
| OR4C15 | 115.8 | 142.6 | 92.1 | 89.8 | 95.8 | 92.7 | 119.2 | 117.7 |
| OR4C16 | 153.6 | 176.2 | 92.3 | 92.8 | 87.8 | 96.4 | 153.6 | 183.7 |
| OR4C3 | 79.6 | 81.8 | 92.9 | 83.5 | 87.7 | 94.6 | 79.1 | 84.1 |
| OR4C45 | 101.2 | 115.6 | 101 | 99.8 | 100.8 | 99.9 | 96.8 | 88.9 |
| OR4C46 | 134 | 158.5 | 90.1 | 88.8 | 77.9 | 94.1 | 120.4 | 135.3 |
| OR4C6 | 91.3 | 109.6 | 87.6 | 91.4 | 83.7 | 85.5 | 86.2 | 96 |
| OR4D1 | 179.7 | 218.5 | 120.7 | 95.8 | 89.8 | 101.7 | 160.8 | 204.7 |
| OR4D10 | 81.7 | 111.2 | 90.6 | 81.1 | 85.4 | 86.4 | 102.5 | 89.7 |
| OR4D11 | 103.8 | 118.5 | 108.3 | 100.4 | 92.7 | 103.9 | 98.9 | 117.5 |
| OR4D2 | 127.2 | 147.8 | 88.6 | 79.4 | 74.8 | 84.1 | 106.3 | 119.9 |
| OR4D5 | 103.7 | 115.5 | 88.9 | 84 | 83.1 | 85.9 | 107.3 | 107.8 |
| OR4D6 | 91.6 | 118.2 | 104.3 | 98 | 89.4 | 98.5 | 104.5 | 99.1 |
| OR4D9 | 75.4 | 84.7 | 93.1 | 89.6 | 80.4 | 78.5 | 86.1 | 91 |
| OR4E2 | 90.8 | 92.6 | 97.8 | 89.1 | 89.7 | 87.3 | 93.8 | 98.6 |
| OR4F15 | 81.9 | 92.5 | 85.2 | 89.4 | 76.9 | 87.6 | 85.2 | 91.6 |
| OR4F21 | 98.8 | 113.4 | 99.2 | 97.2 | 86.8 | 102 | 96.4 | 105.5 |
| OR4F3 | 84.4 | 99.3 | 102.7 | 90.4 | 93 | 88.8 | 90.5 | 84.3 |
| OR4F4 | 104 | 126.9 | 107.4 | 103.8 | 91.6 | 102.6 | 101.5 | 111.7 |
| OR4F5 | 86.4 | 96.8 | 101.5 | 98.1 | 99.3 | 98.5 | 87.4 | 93.8 |
| OR4F6 | 82.8 | 85.1 | 101.9 | 85.1 | 90.3 | 83.6 | 85 | 88.3 |
| OR4K1 | 102.6 | 105.2 | 85.5 | 84.2 | 79.3 | 87.5 | 99 | 95.3 |
| OR4K13 | 97.3 | 114.1 | 99.4 | 92.2 | 93.9 | 85.6 | 92.9 | 100.1 |
| OR4K14 | 94.1 | 106.1 | 107.5 | 94.1 | 88.1 | 88.2 | 89.4 | 102.3 |
| OR4K15 | 76.9 | 81.3 | 92.6 | 82.9 | 79.7 | 91.6 | 79 | 80.8 |
| OR4K17 | 77.4 | 89.1 | 94.9 | 89.7 | 82 | 85.3 | 90.3 | 100.4 |
| OR4K2 | 76.3 | 82.4 | 89.4 | 97.8 | 97.5 | 93.8 | 78 | 83.5 |
| OR4K5 | 83.6 | 91.5 | 85.9 | 89.6 | 90.2 | 89 | 78.7 | 86.2 |
| OR4L1 | 121.1 | 135.9 | 101.9 | 77.5 | 83.6 | 85 | 112.5 | 126.9 |
| OR4M1 | 88 | 90.3 | 83.1 | 86.4 | 81.5 | 85.8 | 85.7 | 86.9 |
| OR4M2 | 89 | 95.5 | 90.3 | 74.4 | 78.8 | 86 | 84.4 | 102.8 |
| OR4N2 | 103.9 | 104.2 | 94.8 | 86.6 | 81 | 83.9 | 90.2 | 103.9 |
| OR4N4 | 74.4 | 81.2 | 94.6 | 81.7 | 79.5 | 88 | 84.1 | 78.9 |
| OR4N5 | 83.6 | 84.2 | 101.3 | 89.4 | 86.3 | 91.7 | 87.3 | 81.1 |

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|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| OR4P4 | 119.5 | 167.2 | 102.6 | 101.9 | 91.3 | 110.5 | 120.1 | 132.1 |
| OR4Q3 | 68.3 | 75.1 | 96.9 | 83.9 | 88.1 | 94.9 | 73.1 | 83.7 |
| OR4S1 | 115.4 | 160.5 | 88.6 | 88.3 | 88 | 91.6 | 116 | 133.6 |
| OR4S2 | 82.2 | 89 | 87.1 | 88.6 | 94 | 92.3 | 85.1 | 89.8 |
| OR4X1 | 89.8 | 109.7 | 99.7 | 89.2 | 94.4 | 81.1 | 99.8 | 98.1 |
| OR4X2 | 83.9 | 85.2 | 94.3 | 74.8 | 80 | 87.2 | 83.1 | 91.1 |
| OR51A2 | 85.4 | 90.1 | 94.3 | 79.2 | 78 | 83.8 | 80.3 | 92 |
| OR51A4 | 71.6 | 79.9 | 87.8 | 84.9 | 78.6 | 76.8 | 76.7 | 73.8 |
| OR51A7 | 96.3 | 103 | 95.2 | 96.6 | 88.4 | 95.5 | 100.6 | 99.5 |
| OR51B2 | 96.2 | 115.1 | 94.1 | 87.7 | 76.8 | 91.1 | 89.7 | 103.4 |
| OR51B4 | 85.5 | 100.4 | 88.2 | 79.4 | 75.9 | 87.1 | 86.1 | 95.1 |
| OR51B5 | 79.8 | 107 | 96.3 | 81.4 | 76 | 81.8 | 82.2 | 83.9 |
| OR51B6 | 89.8 | 117.5 | 91.1 | 82 | 77.8 | 82.4 | 87.3 | 95.7 |
| OR51D1 | 86.7 | 93.4 | 106.9 | 97.1 | 93.8 | 99.4 | 81.3 | 86 |
| OR51E1 | 73.2 | 80.7 | 93.3 | 85.8 | 91.5 | 83.8 | 79.8 | 88.5 |
| OR51E2 | 83.8 | 90.8 | 99.6 | 102.3 | 98.9 | 86.3 | 82.2 | 86.3 |
| OR51F1 | 81.5 | 86.7 | 96.7 | 84.9 | 85.8 | 81.4 | 75 | 83.8 |
| OR51F2 | 73.7 | 80.9 | 90.9 | 82.4 | 83.2 | 75.1 | 75.5 | 74.6 |
| OR51G1 | 89.2 | 90.9 | 90.8 | 80.8 | 80.6 | 76.3 | 85.9 | 83.4 |
| OR51G2 | 93.1 | 101.8 | 105.6 | 91.6 | 85.9 | 92 | 82.5 | 109.5 |
| OR51I1 | 85 | 100.2 | 102.6 | 97.1 | 103.2 | 103.2 | 86 | 92.1 |
| OR51I2 | 90.4 | 101.7 | 92.1 | 82.5 | 85.1 | 82.5 | 89.5 | 96.2 |
| OR51L1 | 82.9 | 94.3 | 89 | 85.5 | 79.1 | 81 | 87.2 | 83 |
| OR51M1 | 93.5 | 107.3 | 96.8 | 95.9 | 97.8 | 95.9 | 95.3 | 104.9 |
| OR51Q1 | 122 | 131.2 | 96.6 | 97.5 | 95.6 | 90.7 | 122.3 | 134.7 |
| OR51S1 | 83.1 | 94.3 | 93.2 | 89.6 | 85.4 | 78.9 | 81.5 | 89.4 |
| OR51T1 | 262.6 | 287.9 | 111.2 | 124.8 | 101.2 | 123.1 | 271.4 | 332.5 |
| OR51V1 | 71.4 | 86.9 | 87.6 | 81 | 75.1 | 84 | 74.8 | 80.9 |
| OR52A1 | 73.5 | 85.5 | 86.9 | 76.3 | 78.2 | 83.6 | 95.7 | 97.6 |
| OR52A4 | 76 | 89.2 | 86.1 | 91.7 | 86.6 | 88.1 | 81.6 | 86.7 |
| OR52A5 | 142.7 | 174.2 | 123.3 | 119.5 | 103 | 115.9 | 133.6 | 149.7 |
| OR52B2 | 94 | 106.9 | 90.2 | 80.8 | 87.8 | 89.8 | 93.7 | 103.5 |
| OR52B4 | 82.4 | 86.3 | 83.8 | 85.7 | 76.6 | 78.6 | 78.3 | 83.6 |
| OR52B6 | 118.9 | 130.4 | 108.9 | 92.5 | 89.9 | 99.4 | 125.2 | 118.5 |
| OR52D1 | 133.7 | 159.8 | 100.5 | 97.2 | 95 | 83.9 | 148.1 | 158.6 |
| OR52E2 | 96.6 | 89.4 | 87.1 | 85.8 | 79.5 | 87.1 | 90.4 | 93.2 |
| OR52E4 | 77.8 | 76.9 | 102.9 | 104 | 94.1 | 91.7 | 83.7 | 87.5 |
| OR52E6 | 86.5 | 106.5 | 111 | 92.7 | 94.3 | 93.8 | 93.3 | 97.8 |
| OR52E8 | 79 | 82 | 94.3 | 82.8 | 80.2 | 81.4 | 74.8 | 84.8 |
| OR52H1 | 87.4 | 92.5 | 99.7 | 93.2 | 93.6 | 91 | 91.7 | 85.7 |
| OR52I1 | 89.9 | 87.5 | 88 | 87.3 | 89.7 | 97.7 | 82.4 | 87.7 |
| OR52I2 | 82.2 | 84.9 | 91 | 84.1 | 79.4 | 79.3 | 77.1 | 87.2 |
| OR52J3 | 88.3 | 88.5 | 95.9 | 87.7 | 82 | 82.4 | 84.3 | 80.9 |
| OR52K1 | 115.5 | 136.6 | 118.1 | 96.4 | 104 | 108.2 | 124.3 | 119.2 |
| OR52K2 | 106 | 100.6 | 96.4 | 85.8 | 76.2 | 95.5 | 95.9 | 96.6 |
| OR52L1 | 80.6 | 90.5 | 100.2 | 94.7 | 92.9 | 92.9 | 84.8 | 87.7 |
| OR52M1 | 86.8 | 93.8 | 94 | 97.2 | 90 | 83.9 | 82.4 | 90 |
| OR52N1 | 102.8 | 106.9 | 99.4 | 79.2 | 83.1 | 105.7 | 99.3 | 105.6 |
| OR52N2 | 132.8 | 159.1 | 114.7 | 100.4 | 105.5 | 103.5 | 116.2 | 135.3 |
| OR52N4 | 76.9 | 88.6 | 105.7 | 80.9 | 84.3 | 81.9 | 84.4 | 89.9 |

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|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| OR52N5 | 101.8 | 119.5 | 102 | 97.6 | 88.8 | 100.6 | 107.9 | 126.1 |
| OR52R1 | 95.9 | 113.2 | 93.5 | 88.6 | 82 | 78.6 | 95.8 | 117.1 |
| OR52W1 | 113.7 | 119.5 | 89.7 | 84.4 | 81.1 | 78.3 | 113.8 | 120.6 |
| OR56A1 | 82.7 | 86.5 | 113 | 103.9 | 101.8 | 101.3 | 88.9 | 81.2 |
| OR56A3 | 74.2 | 84.1 | 79.6 | 84.2 | 86.3 | 88.1 | 80.7 | 79.7 |
| OR56A4 | 102 | 109.2 | 96.7 | 84.5 | 86.8 | 93.1 | 102 | 99.9 |
| OR56B1 | 116.7 | 137.2 | 86.2 | 88.9 | 89.4 | 90.4 | 121.6 | 136.3 |
| OR56B4 | 101.7 | 121.2 | 99.1 | 100.2 | 97 | 103.6 | 102.4 | 113.4 |
| OR5A1 | 91.3 | 94 | 80 | 82.4 | 82.6 | 78.4 | 84.1 | 99 |
| OR5A2 | 91.6 | 99.5 | 84.1 | 78.9 | 68 | 78.5 | 79.8 | 88 |
| OR5AC2 | 84.5 | 101.3 | 106.5 | 92 | 87.5 | 86.2 | 83.5 | 88.2 |
| OR5AK2 | 82.9 | 89.5 | 81.2 | 73.7 | 79.6 | 86.8 | 82.2 | 87.2 |
| OR5AN1 | 100.7 | 102 | 99.5 | 91.6 | 88 | 92 | 92.3 | 101.2 |
| OR5AP2 | 98.8 | 103.1 | 91.4 | 77.2 | 79.5 | 82.4 | 94.2 | 101.5 |
| OR5AR1 | 89.1 | 100.8 | 98.2 | 85 | 85 | 87 | 94.3 | 108.6 |
| OR5AS1 | 93.1 | 107.3 | 83.5 | 87.5 | 82.9 | 85 | 93 | 105.5 |
| OR5AT1 | 81.9 | 104.9 | 91.8 | 85.2 | 92.2 | 94.5 | 80 | 94.9 |
| OR5AU1 | 94.2 | 96.2 | 89.5 | 92.8 | 85.3 | 84.4 | 88.9 | 107.4 |
| OR5AY1 | 87.6 | 109 | 91.4 | 86.1 | 88.7 | 89.8 | 87.6 | 103.5 |
| OR5B12 | 119.9 | 138.3 | 100.5 | 103.3 | 89.6 | 89.1 | 110.5 | 114.8 |
| OR5B17 | 83.1 | 85.2 | 87.5 | 83.9 | 87.9 | 92.6 | 82.2 | 87.3 |
| OR5B2 | 108.3 | 116.6 | 94.3 | 91.5 | 86.1 | 94.4 | 105.9 | 109.2 |
| OR5B21 | 88 | 108.1 | 93.6 | 85.7 | 87.3 | 93.4 | 90.8 | 102.3 |
| OR5B3 | 86 | 89.9 | 103.3 | 91.9 | 88.6 | 84.3 | 90.3 | 98.9 |
| OR5BF1 | 93.3 | 95.4 | 85.7 | 90.2 | 88.7 | 88.7 | 94.8 | 88.8 |
| OR5BU1 | 80.6 | 112.1 | 91.7 | 80.5 | 87.7 | 81.3 | 85.5 | 81.7 |
| OR5C1 | 91.8 | 113.2 | 90.1 | 100.7 | 84 | 93 | 90.7 | 102.2 |
| OR5D13 | 81.9 | 93.5 | 97.5 | 95.8 | 79.6 | 93.5 | 89.2 | 102.2 |
| OR5D14 | 98.6 | 101.8 | 99.6 | 88.1 | 82.3 | 93.8 | 90.6 | 106.9 |
| OR5D16 | 90.5 | 104.8 | 105.3 | 94 | 95.8 | 107.3 | 91.9 | 97.7 |
| OR5D18 | 74.5 | 81 | 87.9 | 73.6 | 71.2 | 73.6 | 76.4 | 78 |
| OR5F1 | 87.3 | 98.6 | 97.7 | 89.6 | 87.9 | 75.6 | 92.2 | 87.5 |
| OR5H1 | 88.5 | 88.7 | 95.1 | 87.7 | 85.2 | 90.2 | 89.6 | 92.1 |
| OR5H14 | 75.7 | 80.7 | 83.4 | 65.3 | 71.9 | 80.3 | 78.1 | 81.8 |
| OR5H15 | 82.3 | 83.9 | 88 | 83.5 | 79.6 | 84.2 | 84.7 | 82.8 |
| OR5H2 | 88 | 86.3 | 90.2 | 81.7 | 81.8 | 83.9 | 84 | 94.3 |
| OR5H6 | 82 | 88.5 | 94.9 | 83.5 | 83.4 | 84.6 | 82.8 | 87.2 |
| OR5I1 | 74.7 | 88.3 | 92.3 | 84.7 | 90.1 | 89.1 | 78.1 | 86.4 |
| OR5J2 | 85.9 | 94.4 | 82.3 | 83.7 | 70.9 | 73.5 | 81.6 | 96.4 |
| OR5K1 | 76.6 | 93.3 | 94.8 | 87.1 | 76.4 | 86.2 | 83.6 | 73.3 |
| OR5K2 | 81.7 | 103.6 | 105.2 | 89.7 | 86.2 | 106.6 | 89.8 | 112.9 |
| OR5K3 | 87.2 | 91.3 | 82.6 | 83.6 | 79 | 88 | 83.6 | 93.7 |
| OR5K4 | 84.6 | 95 | 97.2 | 82.8 | 78.7 | 92.4 | 85 | 90.4 |
| OR5L1 | 106.3 | 121.9 | 93.2 | 88.9 | 83.8 | 93.3 | 102.8 | 107.4 |
| OR5L2 | 77.1 | 80.1 | 84.3 | 86.7 | 73.7 | 89.6 | 72.3 | 81.6 |
| OR5M10 | 94.2 | 97.9 | 94.8 | 91.3 | 83.9 | 92 | 93.6 | 98.3 |
| OR5M11 | 76.6 | 87.1 | 90 | 86.9 | 88 | 82.7 | 78.4 | 81.3 |
| OR5M3 | 124 | 164.8 | 104.7 | 97.9 | 92.5 | 84.5 | 122.2 | 145.4 |
| OR5M8 | 96.7 | 114.8 | 99.9 | 91.2 | 83.9 | 92.7 | 92.3 | 101.6 |
| OR5M9 | 116.8 | 145.2 | 94.3 | 84.1 | 80.9 | 98.6 | 107.8 | 135.2 |

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| OR5P2 | 76.8 | 80.6 | 92.8 | 80.9 | 67.1 | 79.4 | 74.7 | 80.3 |
| OR5P3 | 93 | 117.7 | 105 | 95.6 | 97.3 | 92.8 | 94.3 | 96.3 |
| OR5R1 | 91.3 | 119.8 | 95.2 | 80.9 | 77.4 | 112.1 | 93.8 | 108 |
| OR5T1 | 85 | 91.9 | 82.6 | 73.1 | 75.2 | 78.8 | 85.7 | 85.1 |
| OR5T2 | 78.1 | 85.1 | 80.7 | 92.2 | 83.3 | 91.9 | 83.2 | 80.6 |
| OR5T3 | 94.2 | 106.1 | 92.4 | 95.1 | 87.6 | 93.1 | 95.5 | 102 |
| OR5U1 | 83.7 | 98.9 | 105.4 | 95 | 87.6 | 89.7 | 91.2 | 99.3 |
| OR5V1 | 85.1 | 96 | 107.4 | 92.5 | 94.5 | 96.5 | 85.3 | 100.2 |
| OR5W2 | 94.4 | 110.9 | 85.7 | 78.1 | 75.4 | 86.9 | 89.4 | 106.3 |
| OR6A2 | 92.4 | 95 | 95.8 | 92.6 | 83 | 98.6 | 87.6 | 99 |
| OR6B1 | 98 | 108 | 94.3 | 84.5 | 80.1 | 73.1 | 99.1 | 97.6 |
| OR6B2 | 94 | 108.9 | 89.6 | 91.4 | 89.1 | 91.5 | 84.7 | 96.8 |
| OR6B3 | 83.7 | 105.5 | 98.7 | 93.5 | 82.4 | 81 | 88.5 | 100.2 |
| OR6C1 | 98.2 | 105.2 | 86.2 | 75.1 | 80.6 | 88.6 | 89 | 96.2 |
| OR6C2 | 80.4 | 85.5 | 87.1 | 95.3 | 89.3 | 82 | 85.2 | 87.1 |
| OR6C3 | 134.2 | 139.3 | 96.3 | 87.4 | 81.7 | 87.7 | 119.8 | 121 |
| OR6C4 | 98.7 | 111.2 | 89.7 | 85.6 | 87 | 85.8 | 92.9 | 113.3 |
| OR6C6 | 84.9 | 92.2 | 92.7 | 84.7 | 82.8 | 85.6 | 85 | 89.4 |
| OR6C65 | 92.7 | 103.3 | 101.6 | 89 | 83.8 | 98.9 | 89.9 | 89.4 |
| OR6C68 | 87.6 | 91.7 | 85.5 | 73.3 | 75.5 | 77.1 | 82.1 | 90.2 |
| OR6C70 | 82 | 78.2 | 91.7 | 92.4 | 83.7 | 94.9 | 77.2 | 75.6 |
| OR6C74 | 75.1 | 90.2 | 95.9 | 93.8 | 89.3 | 74.6 | 86.6 | 89.3 |
| OR6C75 | 88.9 | 90.5 | 91.9 | 83.3 | 87 | 78.4 | 88.1 | 98.6 |
| OR6C76 | 91.9 | 109.5 | 86.8 | 83.3 | 77.8 | 86.6 | 79 | 110 |
| OR6F1 | 96 | 108.1 | 97.2 | 86.4 | 78.3 | 89.3 | 110.5 | 106.4 |
| OR6K2 | 91 | 91.9 | 93.4 | 88.4 | 89.1 | 96.6 | 80 | 82.3 |
| OR6K3 | 93.1 | 96.5 | 88.7 | 83.7 | 84.6 | 82.8 | 85.6 | 101.6 |
| OR6K6 | 81.3 | 80.2 | 94.2 | 79.8 | 85 | 81.3 | 83.2 | 92.1 |
| OR6M1 | 84.9 | 104.3 | 87.5 | 88.4 | 91.5 | 75.4 | 87.2 | 105.6 |
| OR6N1 | 90.1 | 94 | 88.7 | 91.7 | 87 | 86.7 | 95.7 | 100.3 |
| OR6N2 | 94.3 | 118.7 | 94.6 | 94 | 87.2 | 78 | 95.4 | 100.8 |
| OR6Q1 | 85.6 | 99 | 95.5 | 82 | 88.9 | 96 | 88.5 | 86.2 |
| OR6S1 | 104.7 | 113 | 93.3 | 85.4 | 76.4 | 80 | 105.7 | 117.4 |
| OR6T1 | 72.5 | 82.8 | 87.3 | 86.6 | 82.7 | 79.7 | 78.9 | 78.5 |
| OR6V1 | 137.8 | 151.1 | 92.9 | 94.3 | 100.2 | 107.4 | 131.3 | 138 |
| OR6W1P | 88.9 | 89.1 | 101.1 | 81.6 | 85 | 93.8 | 91.5 | 91.2 |
| OR6X1 | 73.6 | 77 | 86.2 | 90.6 | 87.8 | 102.6 | 82.6 | 83 |
| OR6Y1 | 81.6 | 94 | 99.7 | 89.7 | 91.6 | 98.1 | 89.3 | 86.9 |
| OR7A10 | 87.7 | 96.7 | 90.1 | 91 | 81.9 | 92 | 90.8 | 96.9 |
| OR7A17 | 117 | 129.2 | 105.6 | 85.8 | 86.9 | 84.3 | 110.2 | 132.9 |
| OR7A5 | 80 | 80.9 | 88.4 | 84.3 | 81.8 | 89.3 | 84 | 83.9 |
| OR7C1 | 72.1 | 82.5 | 96.9 | 84.6 | 85.6 | 84.4 | 75.1 | 89.7 |
| OR7C2 | 111.1 | 119.7 | 99.6 | 95.1 | 82.3 | 96.1 | 104 | 117.3 |
| OR7D2 | 84.1 | 96 | 88.6 | 82.8 | 78.5 | 83 | 86.9 | 92.9 |
| OR7D4 | 80.6 | 101.2 | 106.8 | 85.3 | 81.9 | 87.3 | 88.4 | 94.5 |
| OR7E156P | 134.8 | 169.7 | 121 | 119.8 | 103.8 | 121.4 | 152.6 | 149.8 |
| OR7E24 | 139.2 | 164 | 96.1 | 100.8 | 90.1 | 95 | 124.2 | 130 |
| OR7E37P | 79.9 | 90.3 | 85.8 | 80.2 | 77.6 | 78.5 | 81.9 | 92.2 |
| OR7E91P | 86 | 90.5 | 85.6 | 85 | 78.6 | 80.8 | 80.5 | 86.2 |
| OR7G1 | 115.6 | 120 | 90.2 | 88.3 | 81.1 | 80.4 | 93 | 110 |

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|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| OR7G2 | 119.2 | 119.3 | 87.1 | 75.9 | 82.3 | 78.1 | 113.3 | 122.4 |
| OR7G3 | 101 | 121.4 | 102.6 | 96.1 | 92.1 | 109.2 | 109.6 | 113.2 |
| OR8A1 | 95.7 | 97.1 | 101 | 85.9 | 91.5 | 81.2 | 89.9 | 95 |
| OR8B12 | 132.4 | 160.1 | 91.9 | 95.2 | 96.5 | 94.4 | 133.6 | 136.8 |
| OR8B2 | 84.5 | 94.9 | 96.5 | 82.7 | 87.3 | 96.5 | 83.3 | 91.7 |
| OR8B3 | 85.1 | 79.6 | 80 | 79 | 82 | 86.3 | 80.7 | 84.4 |
| OR8B4 | 90.9 | 102.9 | 92.6 | 85.3 | 79.3 | 88.3 | 97.6 | 99.3 |
| OR8B8 | 80.5 | 85.4 | 80.7 | 77.8 | 80.5 | 80.4 | 80.6 | 91.6 |
| OR8D1 | 80.5 | 109.8 | 97.1 | 89.5 | 75.3 | 90.2 | 87.6 | 101.1 |
| OR8D2 | 99.4 | 95.6 | 112.7 | 98.2 | 89.5 | 94.2 | 101.8 | 87.1 |
| OR8D4 | 83.3 | 91.2 | 103.2 | 95.1 | 84.3 | 83.9 | 87.4 | 93.4 |
| OR8G1 | 96.3 | 114.2 | 94.9 | 88.9 | 89.7 | 91.2 | 93.4 | 97 |
| OR8G2 | 99.4 | 119.2 | 98.8 | 96.5 | 86.9 | 99.8 | 105.1 | 114.7 |
| OR8G5 | 89.8 | 86.3 | 87.3 | 92.5 | 83.6 | 88.3 | 89.8 | 92.1 |
| OR8H1 | 103.5 | 102.4 | 97 | 96.7 | 85.9 | 85.6 | 95.6 | 113 |
| OR8H2 | 77.4 | 82.8 | 95.4 | 80.4 | 81.4 | 88.5 | 82.4 | 82.1 |
| OR8H3 | 165.3 | 189.6 | 109.2 | 105.7 | 92.1 | 99.5 | 154.7 | 189.6 |
| OR8I2 | 83.5 | 102.2 | 77.4 | 84.2 | 63.1 | 76 | 94.4 | 89.7 |
| OR8J1 | 84.6 | 76.4 | 94.5 | 84.5 | 81.8 | 87.9 | 80.1 | 77.7 |
| OR8J3 | 90.9 | 101.2 | 101.8 | 83.8 | 91.1 | 88.5 | 94.9 | 94.2 |
| OR8K1 | 77.2 | 91.7 | 97.4 | 93.7 | 83.8 | 85.1 | 77.5 | 81.6 |
| OR8K3 | 83.8 | 94.3 | 90.7 | 93.2 | 91.2 | 82.2 | 96.3 | 103.2 |
| OR8K5 | 101.2 | 130.4 | 94 | 84.6 | 83.9 | 93.1 | 117.8 | 132.8 |
| OR8S1 | 95.4 | 98.5 | 86.8 | 82.6 | 89 | 82.9 | 88.3 | 102.4 |
| OR8U1 | 106.5 | 114.5 | 93.5 | 91.2 | 80.1 | 96.4 | 105.1 | 106.4 |
| OR8U8 | 86 | 73.5 | 85.7 | 85 | 80.2 | 76.1 | 69.8 | 74.4 |
| OR8U9 | 78.6 | 81.6 | 85.5 | 85.8 | 79.3 | 76.7 | 72.5 | 79.8 |
| OR9A2 | 105.2 | 110.4 | 100.4 | 93.3 | 87.9 | 102.1 | 103.3 | 108.4 |
| OR9A4 | 127.5 | 140.2 | 80.6 | 84.6 | 75.9 | 69.1 | 106.3 | 130.3 |
| OR9G1 | 90.6 | 98 | 86.4 | 93.8 | 82.9 | 79.6 | 88.8 | 94 |
| OR9G4 | 79.8 | 80.3 | 88.5 | 87.4 | 82 | 87.6 | 83.5 | 87.9 |
| OR9G9 | 87 | 91.2 | 102.9 | 94.2 | 94.4 | 96.3 | 89.4 | 92 |
| OR9I1 | 95.8 | 92.8 | 117.8 | 96.5 | 107.8 | 107.4 | 86.1 | 90.1 |
| OR9K2 | 85 | 90.2 | 89.6 | 82.1 | 81.3 | 80.9 | 86.2 | 90.3 |
| OR9Q1 | 92.6 | 82.9 | 82.9 | 75.9 | 69.5 | 67.3 | 81 | 87.3 |
| OR9Q2 | 83.9 | 88.2 | 92.3 | 83.9 | 82.5 | 86.4 | 83.6 | 95.6 |
| ORAQV1 | 423.2 | 492.1 | 322.9 | 279 | 277.9 | 321.4 | 365.4 | 321.7 |
| ORC1L | 400.2 | 581.2 | 457.3 | 293 | 241.1 | 264.5 | 287.3 | 477.2 |
| ORC2L | 744.4 | 835 | 515.9 | 516.2 | 337 | 706.1 | 570.6 | 926.4 |
| ORC3L | 1268.4 | 1588.7 | 523.8 | 674.3 | 455.3 | 1075.5 | 1019 | 2239.1 |
| ORC4L | 118.4 | 133.2 | 106.8 | 113.2 | 104.7 | 117.2 | 106.9 | 140.2 |
| ORC5L | 1284.9 | 1759.7 | 969.4 | 1056.6 | 771.3 | 1110.2 | 1178.8 | 1900 |
| ORC5L | 209.8 | 290.4 | 108.2 | 93.7 | 87.1 | 117.1 | 192.9 | 283.4 |
| ORC5L | 79.1 | 85.8 | 97.7 | 86.9 | 86.8 | 95.7 | 75 | 81.2 |
| ORC6L | 21583.6 | 23486.3 | 11879.2 | 15510.4 | 14600.1 | 11623.6 | 20971.6 | 22980.4 |
| ORF1-FL49 | 316.9 | 339.8 | 213.4 | 175.6 | 150.7 | 166.9 | 238.5 | 341.3 |
| ORM1 | 527.9 | 671.8 | 366.7 | 416.8 | 366.3 | 573.2 | 460.6 | 693.6 |
| ORM2 | 96.7 | 114.8 | 101.3 | 117.7 | 116.3 | 124.7 | 94.7 | 89.4 |
| ORMDL1 | 251.9 | 283.9 | 140.4 | 132.2 | 131.2 | 156.8 | 191.7 | 264.5 |
| ORMDL2 | 125.8 | 144.6 | 104.3 | 91.9 | 102.4 | 93.5 | 110.1 | 137.3 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| ORMDL3 | 137.5 | 155.6 | 110.5 | 100.2 | 107 | 102.1 | 121.3 | 188.4 |
| OS9 | 198.9 | 246.1 | 154.8 | 160 | 140.9 | 192.9 | 177.8 | 290.5 |
| OSAP | 88.9 | 97 | 100.8 | 90.3 | 86.2 | 86.3 | 81.4 | 115.6 |
| OSBP | 1500.8 | 2144.2 | 1076.7 | 1255.4 | 1056.5 | 1708.2 | 1659.9 | 1910.1 |
| OSBP2 | 97.4 | 104.9 | 99.5 | 90.6 | 85.6 | 101.3 | 89.9 | 108 |
| OSBPL10 | 91.4 | 99.5 | 92.8 | 85.8 | 87.9 | 87.9 | 84.8 | 108.1 |
| OSBPL11 | 131.7 | 150 | 112.1 | 117.9 | 106.9 | 125.8 | 148.3 | 208.7 |
| OSBPL1A | 357.6 | 447.4 | 147.7 | 199.6 | 170.6 | 218.8 | 279.2 | 338.7 |
| OSBPL1A | 91.3 | 111.7 | 101.6 | 102.6 | 93.8 | 92.6 | 88.7 | 85.2 |
| OSBPL1A | 1112.7 | 1286.9 | 443 | 788.5 | 628.8 | 967.4 | 778.2 | 780.2 |
| OSBPL2 | 108.3 | 134.7 | 93.3 | 105.6 | 92.9 | 120.8 | 108.3 | 153.1 |
| OSBPL2 | 344.1 | 440.2 | 157.7 | 178.7 | 162.7 | 220.1 | 313.5 | 412.8 |
| OSBPL3 | 113.9 | 160.4 | 109.9 | 97.2 | 85.8 | 104.6 | 132.5 | 138.3 |
| OSBPL3 | 134.5 | 167 | 139.6 | 165.5 | 122.3 | 195.9 | 119 | 171.2 |
| OSBPL5 | 430.1 | 524.7 | 540.4 | 597.8 | 624 | 716.3 | 387.9 | 596.3 |
| OSBPL5 | 457.3 | 586.2 | 447.1 | 529.1 | 538 | 595.1 | 426.6 | 425.1 |
| OSBPL6 | 246.3 | 246.1 | 144.5 | 137.9 | 126.6 | 117 | 240.9 | 236.4 |
| OSBPL6 | 107.5 | 111.7 | 104.5 | 89.1 | 85.1 | 88.1 | 124 | 141.4 |
| OSBPL7 | 357.1 | 351.8 | 295.5 | 273.9 | 281.1 | 343.7 | 264.2 | 415.4 |
| OSBPL7 | 122.8 | 142.9 | 124.7 | 102 | 97.5 | 110.7 | 117.7 | 147 |
| OSBPL8 | 379 | 491.8 | 195.2 | 199 | 172.7 | 218.3 | 312.6 | 399.6 |
| OSBPL8 | 439.1 | 487.8 | 192.5 | 237.9 | 197.4 | 400.1 | 414.4 | 805 |
| OSBPL9 | 88.3 | 97.1 | 91.4 | 86.2 | 90.5 | 90.7 | 82.3 | 96.2 |
| OSBPL9 | 1644.8 | 2217 | 1227.6 | 1875.6 | 1626.6 | 2778.4 | 1445.5 | 1973.4 |
| OSCAR | 102.8 | 117.5 | 118 | 122.5 | 118.5 | 132.3 | 91.7 | 104.8 |
| OSCAR | 248.6 | 280.6 | 159.5 | 231.9 | 160 | 193.3 | 197.9 | 231.5 |
| OSGEP | 870.5 | 1096.5 | 405.7 | 360.7 | 320.4 | 454.8 | 604.8 | 657.9 |
| OSGEPL1 | 412.1 | 506 | 253.2 | 258.7 | 208.9 | 315.6 | 304 | 578.5 |
| OSGIN1 | 144.4 | 178.1 | 118.1 | 108.2 | 92.5 | 92.5 | 237.4 | 530.5 |
| OSGIN1 | 81.7 | 81.5 | 94.9 | 82.8 | 85.5 | 87.4 | 81.1 | 79.4 |
| OSM | 126.1 | 140.5 | 110.5 | 96 | 96 | 102.1 | 118.8 | 126.5 |
| OSMR | 76.4 | 84 | 98.6 | 96.2 | 100 | 82.9 | 82.8 | 79.1 |
| OSR1 | 81.1 | 88 | 77.7 | 77.9 | 80.9 | 82 | 78.8 | 86.1 |
| OSR2 | 125.3 | 139.8 | 107.9 | 93.3 | 94.8 | 89.9 | 114.9 | 131.6 |
| OSR2 | 192 | 233.7 | 151.4 | 152.1 | 133.7 | 168.5 | 154.2 | 255 |
| OSRF | 180.2 | 185.7 | 123.4 | 119.3 | 112.3 | 154.5 | 138.8 | 254.4 |
| OSTALPHA | 154.8 | 167 | 103.6 | 127.4 | 130.8 | 151.3 | 129.8 | 143.7 |
| OSTBETA | 75.9 | 83.2 | 90.5 | 79.6 | 85 | 87.2 | 79.9 | 88.5 |
| OSTF1 | 3771.4 | 4769.3 | 2855.8 | 2603.3 | 2146.6 | 3413.3 | 2965.7 | 4491.2 |
| OSTM1 | 298 | 334 | 219.9 | 329.9 | 264.2 | 498.7 | 254.9 | 532.3 |
| OSTN | 81.1 | 82.1 | 97.9 | 90.5 | 83 | 91.5 | 89.2 | 83.4 |
| OTC | 79.8 | 89 | 94.1 | 90.8 | 76.6 | 85.7 | 95.7 | 86.9 |
| OTEX | 87.9 | 94.1 | 93.9 | 89.1 | 81.8 | 90.1 | 89.4 | 93.5 |
| OTOA | 71.3 | 88 | 85.5 | 87.4 | 82.6 | 78.6 | 80 | 82.3 |
| OTOA | 77.6 | 92.5 | 107.7 | 109.1 | 95.5 | 103.3 | 83.7 | 91.4 |
| OTOA | 96.3 | 113.3 | 106.5 | 98.8 | 97 | 99 | 82.9 | 92.1 |
| OTOF | 84.4 | 85.7 | 90.9 | 94.7 | 74.9 | 78.2 | 79.3 | 83.3 |
| OTOF | 89.8 | 83.1 | 93.9 | 88.9 | 100.9 | 92.5 | 86.3 | 95.5 |
| OTOF | 101.5 | 105.2 | 87.4 | 86.8 | 79.9 | 77.8 | 90.3 | 109 |
| OTOP1 | 114.1 | 133.7 | 99.7 | 97.3 | 90.5 | 93.3 | 126.2 | 140 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| OTOP2 | 86.7 | 108.4 | 91.9 | 84.5 | 82.3 | 85.2 | 88.3 | 104.6 |
| OTOP3 | 101 | 109.8 | 98.5 | 88.7 | 81.8 | 77.2 | 93.5 | 99.2 |
| OTOR | 74.7 | 79.5 | 83.5 | 75.3 | 67.7 | 80.2 | 81.4 | 83.4 |
| OTOS | 79.5 | 79.7 | 85.4 | 79.8 | 79.7 | 84.4 | 83.1 | 78.7 |
| OTP | 190.3 | 235.5 | 127.8 | 104.2 | 107.3 | 99 | 169.9 | 176.4 |
| OTUB1 | 90 | 93.6 | 96.2 | 101.3 | 86.6 | 90.1 | 95.6 | 96.9 |
| OTUB1 | 187.3 | 220 | 157.2 | 112.6 | 114.3 | 182.4 | 199.4 | 295.2 |
| OTUB1 | 280.8 | 341.6 | 190.7 | 170.2 | 150.8 | 168.8 | 244.3 | 284.7 |
| OTUB2 | 151.3 | 184 | 142.8 | 119.4 | 112 | 136.1 | 150.8 | 139.4 |
| OTUD4 | 384.5 | 547.9 | 382.4 | 320.4 | 257.7 | 508.1 | 332.1 | 418.8 |
| OTUD4 | 88.8 | 97.7 | 105.1 | 95 | 87.7 | 87 | 98.5 | 106.4 |
| OTUD4 | 96.3 | 100.3 | 108.5 | 100.1 | 98.3 | 93.4 | 82.1 | 98.7 |
| OTUD5 | 134.1 | 168.4 | 100.4 | 82.5 | 91.9 | 94 | 126 | 138.4 |
| OTUD6A | 97.9 | 108.5 | 107.9 | 101.9 | 96.9 | 104.1 | 97.7 | 102.3 |
| OTUD6B | 508.9 | 625.2 | 274.9 | 255.3 | 185.3 | 282.7 | 328.8 | 605.3 |
| OTUD7 | 80.5 | 86.7 | 91.8 | 85.4 | 73.1 | 85.8 | 78.6 | 80.9 |
| OTUD7A | 108 | 102.7 | 102.4 | 91.9 | 82.2 | 90.2 | 107.6 | 105.6 |
| OTX1 | 1382.7 | 1600.2 | 412.3 | 498.4 | 336.7 | 288.6 | 867.3 | 1298.3 |
| OTX2 | 90.7 | 91.6 | 95.6 | 89.2 | 82 | 82.9 | 86.2 | 88.3 |
| OTX2 | 98.3 | 109.7 | 112.8 | 99.3 | 88.1 | 101.4 | 100.6 | 97.5 |
| OTX2 | 112.1 | 134.5 | 100 | 91.6 | 98.9 | 95.1 | 116.3 | 128.6 |
| OVCA2 | 138.3 | 163.3 | 100.9 | 81.4 | 102.1 | 101.1 | 120 | 142.2 |
| OVCH1 | 102.6 | 115.2 | 86.9 | 72.8 | 74.7 | 82.1 | 102.8 | 108 |
| OVCH2 | 84.7 | 100.1 | 83.4 | 75.3 | 86.3 | 77.7 | 95.5 | 94.2 |
| OVGP1 | 317.7 | 397.8 | 177.8 | 194.9 | 181.5 | 261.8 | 293.3 | 410.9 |
| OVOL1 | 84.9 | 99.2 | 88 | 86.8 | 75.2 | 76.4 | 85.7 | 96.8 |
| OVOL2 | 565.9 | 734.3 | 499.1 | 314.7 | 268.3 | 305.6 | 454.2 | 549 |
| OVOS2 | 76.6 | 75.2 | 81.8 | 84.4 | 80.4 | 74 | 85.6 | 78 |
| OVOS2 | 144 | 154.5 | 118.6 | 103.9 | 114.4 | 110.3 | 135.7 | 149.8 |
| OXA1L | 2003.7 | 2804.8 | 1139.8 | 692.2 | 598.5 | 1039.8 | 1792.5 | 2406.4 |
| OXCT1 | 335.3 | 464.3 | 169.7 | 161.9 | 159.3 | 228.6 | 216.3 | 341.8 |
| OXCT2 | 585.5 | 658.7 | 508.7 | 382.9 | 356.1 | 438.7 | 304.8 | 282 |
| OXER1 | 109.3 | 124.1 | 97.8 | 90.2 | 92.9 | 102.7 | 105.7 | 124.6 |
| OXGR1 | 82.6 | 88 | 84.8 | 79.9 | 79.1 | 81.3 | 87.8 | 89.1 |
| OXR1 | 1388.1 | 1733.7 | 1529.7 | 1573.8 | 1229.5 | 2247.4 | 1355.8 | 2710.9 |
| OXSM | 250.6 | 346.6 | 134.5 | 141.2 | 122 | 178.2 | 252.9 | 326.7 |
| OXSR1 | 910.7 | 1179.3 | 851.6 | 1092.5 | 944.8 | 1741 | 913.8 | 1334 |
| OXT | 89.8 | 106.7 | 94.5 | 79.4 | 80.1 | 84.1 | 87.4 | 100.6 |
| OXTR | 125.1 | 145 | 97 | 89 | 86 | 82.1 | 128.3 | 147.6 |
| P11 | 94.6 | 103.1 | 113.5 | 109.2 | 101.1 | 96.2 | 96.7 | 103.8 |
| P15RS | 2145.2 | 2827.5 | 1749.6 | 2501.6 | 1715.7 | 2931.5 | 1745.2 | 2431.8 |
| P18SRP | 265.7 | 366.3 | 168.8 | 170.1 | 147 | 195 | 189.1 | 264.7 |
| P2RX1 | 227.4 | 238.6 | 182.6 | 219.2 | 236.7 | 283.2 | 169.7 | 233.5 |
| P2RX2 | 78.7 | 89.3 | 98.1 | 86.1 | 84.8 | 97.5 | 86.6 | 90.1 |
| P2RX2 | 80.3 | 86.7 | 91.2 | 96.2 | 82.4 | 88.3 | 85.8 | 81.2 |
| P2RX2 | 95 | 98.9 | 102.1 | 103.5 | 89.5 | 95.4 | 93.3 | 103.9 |
| P2RX2 | 104 | 116.5 | 105.7 | 97 | 97.7 | 102 | 101.7 | 128.4 |
| P2RX3 | 130.9 | 140.4 | 90.2 | 84.3 | 92.5 | 89.4 | 124.6 | 130.2 |
| P2RX3 | 83.5 | 96.3 | 85.1 | 82.2 | 74.1 | 89.4 | 78.9 | 84.8 |
| P2RX4 | 375.7 | 484 | 426.2 | 306.2 | 282.3 | 326.9 | 314.1 | 520.6 |

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| P2RX5 | 89.9 | 98.3 | 104.6 | 92.7 | 86.8 | 88.3 | 90.5 | 86.2 |
| P2RX5 | 118.1 | 141.5 | 85 | 90.9 | 88.6 | 86.7 | 110.6 | 123.1 |
| P2RX7 | 253 | 268.8 | 178.4 | 331 | 424.7 | 467.5 | 209.3 | 314.6 |
| P2RXL1 | 92.8 | 110.4 | 94.9 | 79.5 | 74.9 | 81.6 | 101.6 | 105 |
| P2RY1 | 104.8 | 125.2 | 99.2 | 92.8 | 84.5 | 97.3 | 104 | 123.6 |
| P2RY10 | 89.7 | 102.3 | 92.7 | 78.5 | 65 | 82.8 | 97 | 99.2 |
| P2RY10 | 153.7 | 191.8 | 90.5 | 87 | 79.3 | 95.4 | 153.7 | 185.4 |
| P2RY11 | 529.2 | 587.6 | 436 | 259.8 | 267.4 | 242.4 | 431.3 | 394.9 |
| P2RY13 | 107.7 | 102.7 | 95.8 | 93 | 81.5 | 97.2 | 95.5 | 108 |
| P2RY13 | 92.6 | 110.4 | 109.4 | 101.1 | 92.6 | 98.4 | 92.2 | 94.8 |
| P2RY13 | 73.1 | 74.3 | 82.2 | 79 | 82.3 | 75.8 | 78.7 | 76.3 |
| P2RY14 | 77 | 87 | 95.9 | 78.7 | 81.6 | 82.5 | 87.9 | 81.9 |
| P2RY14 | 91.9 | 91.8 | 85.4 | 85.2 | 86 | 87.4 | 85.3 | 101.5 |
| P2RY14 | 86 | 102.2 | 81.7 | 78.7 | 73.6 | 84.1 | 83.7 | 81.8 |
| P2RY2 | 82 | 98.9 | 99.7 | 97.9 | 84.5 | 96.6 | 83.9 | 100.5 |
| P2RY2 | 380.5 | 470.6 | 307.9 | 397.8 | 294.5 | 597.4 | 292.5 | 371.2 |
| P2RY2 | 1385.6 | 1871.8 | 674.2 | 893.6 | 755.2 | 1200.3 | 964.3 | 879.8 |
| P2RY2 | 152.5 | 191.1 | 116.6 | 128.2 | 111.2 | 100.8 | 125.2 | 150.7 |
| P2RY4 | 137.9 | 131 | 93.1 | 94.7 | 87.1 | 96.9 | 113.9 | 135.8 |
| P2RY5 | 176.3 | 190.1 | 129.3 | 350.2 | 265.9 | 561 | 134.3 | 190.5 |
| P2RY6 | 115.1 | 145.2 | 109.3 | 101 | 94.8 | 104.9 | 94.5 | 126.3 |
| P2RY6 | 320.8 | 380.2 | 196.1 | 136.8 | 129.7 | 154 | 347.7 | 541.3 |
| P2RY6 | 152.1 | 144.2 | 106.4 | 84 | 85.5 | 89 | 130.3 | 164.5 |
| P2RY8 | 1716.5 | 2293.1 | 2375.3 | 2620.6 | 2152.8 | 3158 | 1353.4 | 2483.7 |
| P4HA1 | 127.7 | 158.3 | 110.8 | 100.5 | 99.1 | 109.7 | 124.1 | 173.8 |
| P4HA1 | 483.3 | 663.7 | 193.4 | 166.7 | 174.5 | 316.9 | 395.6 | 723.9 |
| P4HA2 | 207.4 | 256.5 | 155 | 157.1 | 128.5 | 169.6 | 208.4 | 286.7 |
| P4HA2 | 148.5 | 169.9 | 93.8 | 86.2 | 87.5 | 86 | 138.8 | 147 |
| P4HA3 | 93.6 | 103.5 | 86.7 | 82.8 | 91.4 | 91.8 | 92.4 | 102.8 |
| P518 | 99.5 | 100.6 | 95.9 | 81.4 | 80 | 86.6 | 90.4 | 113.5 |
| P53AIP1 | 87.3 | 95.9 | 93.3 | 74.2 | 79.3 | 84.6 | 85.2 | 89 |
| P8 | 198.1 | 222 | 112.5 | 119.2 | 141.2 | 223.9 | 234.7 | 282.1 |
| PA2G4 | 1984.4 | 2496.3 | 1187.9 | 984.6 | 826.4 | 1701.3 | 1648 | 3485.6 |
| PA2G4P4 | 113.6 | 153.9 | 96 | 81.1 | 81.9 | 92.2 | 116.4 | 150.6 |
| PABPC1 | 5624.3 | 5121.1 | 1407.5 | 1164.8 | 650.2 | 1161.7 | 5797.4 | 13281.6 |
| PABPC3 | 72.8 | 78.8 | 89.6 | 79.6 | 71.6 | 74 | 68.3 | 78.1 |
| PABPC4 | 5790.3 | 6729 | 8405.6 | 9871 | 7984.5 | 11670.3 | 4792.3 | 7629.6 |
| PABPC5 | 87.6 | 88.4 | 80.1 | 84.1 | 77.3 | 75.9 | 84 | 89.4 |
| PABPC5 | 93.9 | 91.9 | 83.2 | 88.1 | 86.3 | 80.2 | 89 | 102.3 |
| PABPC5 | 81.4 | 86.4 | 96 | 89.2 | 87 | 95.8 | 79.4 | 90.3 |
| PABPN1 | 1812.1 | 2316.8 | 1520.6 | 1699.1 | 1469.2 | 2309 | 1299.7 | 1678.1 |
| PACRG | 96.7 | 100.7 | 88.8 | 83.7 | 79.2 | 80.3 | 96.3 | 104.9 |
| PACRG | 114 | 137.8 | 104.7 | 93.6 | 86 | 77.9 | 111 | 138.3 |
| PACRG | 105.5 | 124.2 | 80.9 | 81.7 | 66.2 | 85.5 | 105.1 | 114.7 |
| PACRG | 86.1 | 90.9 | 106.1 | 111.8 | 104 | 104.1 | 77.4 | 86.3 |
| PACS1 | 96.3 | 110.2 | 137.8 | 153.9 | 125 | 159.5 | 105.1 | 111.4 |
| PACS2 | 183.4 | 196.3 | 155.9 | 132.7 | 129.4 | 160 | 145.4 | 188.6 |
| PACSIN1 | 94.7 | 99.6 | 107.9 | 126.8 | 121.2 | 129.5 | 92.7 | 88.9 |
| PACSIN2 | 2618.4 | 3262.9 | 1968.8 | 2399.6 | 1935 | 2607.1 | 3409.8 | 3281.4 |
| PACSIN3 | 212.4 | 212.9 | 120.1 | 134.3 | 102.7 | 134.5 | 176.2 | 210.8 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| PADI1 | 95.6 | 120.9 | 109.9 | 89.7 | 90.9 | 97.4 | 94.7 | 111.1 |
| PADI2 | 105.5 | 147.3 | 90.4 | 84.4 | 77.2 | 94.7 | 106.5 | 161.3 |
| PADI3 | 101.2 | 125.6 | 89.9 | 91.5 | 81.3 | 93.2 | 103.8 | 111.4 |
| PADI4 | 88.7 | 100.1 | 94 | 92.3 | 85.9 | 88.4 | 94.1 | 102.8 |
| PADI6 | 152.9 | 167 | 100 | 98.3 | 88.9 | 98.4 | 151.1 | 173.2 |
| PAEP | 82.3 | 83.2 | 88.4 | 94.2 | 81.6 | 83.4 | 80.7 | 81.8 |
| PAEP | 92.6 | 123.7 | 88 | 83.2 | 77.3 | 77.9 | 103.8 | 114.9 |
| PAF1 | 902.3 | 1000.2 | 438.7 | 340.4 | 286.9 | 409.3 | 675.6 | 741.1 |
| PAFAH1B1 | 461.1 | 596.7 | 310.5 | 315.1 | 311.2 | 334.3 | 455.5 | 559.2 |
| PAFAH1B2 | 181.3 | 252.8 | 121.9 | 106.8 | 104.5 | 103.8 | 166.5 | 221.6 |
| PAFAH1B3 | 3060.5 | 3823.8 | 2260.1 | 652.7 | 659.6 | 1125.2 | 2427.5 | 2408.8 |
| PAFAH2 | 251.8 | 356.4 | 208.1 | 197.2 | 152 | 257.9 | 231.7 | 379.5 |
| PAG1 | 718.1 | 972.7 | 288.9 | 361.1 | 278.3 | 385.9 | 606 | 891.9 |
| PAGE1 | 81.5 | 84.2 | 98.9 | 97 | 87.4 | 95.2 | 78.6 | 94.7 |
| PAGE2 | 82.9 | 84.4 | 86.8 | 86.4 | 80.7 | 84.4 | 86.1 | 90.5 |
| PAGE2B | 78.6 | 107.3 | 87.7 | 84.5 | 83.9 | 86.3 | 103.6 | 93.7 |
| PAGE3 | 93.5 | 106.7 | 96.3 | 90.2 | 86.4 | 88.7 | 100 | 102 |
| PAGE4 | 95.2 | 119.5 | 91.8 | 83.1 | 79.7 | 81.4 | 101.3 | 113.2 |
| PAGE5 | 80.6 | 90.4 | 96.6 | 89.1 | 86.1 | 84.5 | 95 | 94.1 |
| PAGE5 | 83.1 | 88.7 | 84.9 | 79.7 | 86.6 | 75.8 | 87.8 | 94 |
| PAH | 79.1 | 95.1 | 91.2 | 88.3 | 81.7 | 82.2 | 83.4 | 88.5 |
| PAICS | 5469.6 | 7753 | 3776.3 | 3040.7 | 2211.4 | 3697.2 | 4455.7 | 7395.4 |
| PAICS | 205.1 | 217.7 | 125.1 | 113.3 | 101.7 | 105.1 | 131.7 | 158.5 |
| PAICS | 6156.1 | 8438.9 | 4779.5 | 4002.3 | 2816.9 | 4446.4 | 4746 | 7446.2 |
| PAIP1 | 149.1 | 183.7 | 124.2 | 134.5 | 118.5 | 122.1 | 114.1 | 168.5 |
| PAIP1 | 125.2 | 141.1 | 101.1 | 93.8 | 88.6 | 92.7 | 107.3 | 135.9 |
| PAIP2 | 4703.9 | 5786.4 | 3132.9 | 3413.6 | 2694 | 4132.8 | 4077.5 | 7981.1 |
| PAIP2 | 92.4 | 105.8 | 82.1 | 90.5 | 87.7 | 90.1 | 90.6 | 91.5 |
| PAIP2 | 177.4 | 218.9 | 107.7 | 106 | 103.6 | 99.4 | 186.7 | 225.2 |
| PAK1 | 569.3 | 669.8 | 355.7 | 396.3 | 318.4 | 465.1 | 454.3 | 732.6 |
| PAK1IP1 | 246.9 | 267.6 | 108 | 116.4 | 106.4 | 127.9 | 195.8 | 274.3 |
| PAK2 | 1050.7 | 1591.9 | 566.4 | 1088.6 | 684.3 | 1195.1 | 932.5 | 1691.2 |
| PAK2 | 330.2 | 648.8 | 206.4 | 328 | 231.5 | 176.6 | 484.4 | 426.5 |
| PAK3 | 80.4 | 86.3 | 108.5 | 102.6 | 99.6 | 94.6 | 81.6 | 79.3 |
| PAK4 | 84.7 | 96.6 | 92.9 | 89.7 | 82.8 | 99.9 | 83.7 | 109.4 |
| PAK4 | 108.1 | 115 | 94.6 | 89.5 | 85.4 | 100 | 91 | 120.1 |
| PAK4 | 289.9 | 313.1 | 198.6 | 183.2 | 168.6 | 181.2 | 247.5 | 347.5 |
| PAK6 | 103.2 | 110.3 | 94.6 | 85.7 | 82.8 | 89.3 | 96.9 | 102.5 |
| PAK7 | 94.5 | 102.5 | 98.6 | 92.3 | 92 | 93.3 | 91.8 | 106.4 |
| PAK7 | 123.2 | 145.7 | 102.5 | 95.5 | 90.9 | 107.5 | 112 | 127.3 |
| PALLD | 108.3 | 120.6 | 81.9 | 88.4 | 88.4 | 86.4 | 120.2 | 134.9 |
| PALM | 110.6 | 141.1 | 92.8 | 96.3 | 82.3 | 83.5 | 115.7 | 131.2 |
| PALM | 100.3 | 126.5 | 134.2 | 116.4 | 109.8 | 146.7 | 118 | 149.4 |
| PALM | 465.2 | 619.3 | 376.9 | 254.2 | 271.2 | 218.5 | 394.3 | 453.9 |
| PALM2 | 84.1 | 105.7 | 89.2 | 75.7 | 73.5 | 83.4 | 83.2 | 97.2 |
| PALM2 | 80.3 | 92 | 93.6 | 81.4 | 79.2 | 81.8 | 89.5 | 105.9 |
| PALM2-AK/ | 81 | 78.7 | 93.1 | 90.7 | 101.6 | 88.6 | 85.4 | 89.9 |
| PALM2-AK/ | 84.6 | 91.7 | 96.6 | 86.5 | 84.3 | 85.7 | 81.7 | 78.8 |
| PALMD | 119 | 119.4 | 100.4 | 100.7 | 91.7 | 97.4 | 108.7 | 110 |
| PAM | 976.9 | 1320.9 | 790 | 724.3 | 624.6 | 996.1 | 801.2 | 1054.7 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PAMCI | 87.7 | 93 | 94.2 | 91 | 84.4 | 98.9 | 90.6 | 99.2 |
| PAN3 | 1133.9 | 1305.8 | 790.9 | 1052 | 894.7 | 1530.5 | 996.2 | 2029.1 |
| PANK1 | 90.9 | 101.8 | 107.5 | 98.6 | 88.8 | 86.8 | 85.8 | 88.6 |
| PANK1 | 374.2 | 530.2 | 245.1 | 194.9 | 159.5 | 237 | 324.1 | 443 |
| PANK2 | 850.5 | 1037.1 | 607.7 | 737.6 | 557.6 | 868.3 | 723.7 | 1183.2 |
| PANK2 | 545.2 | 744.9 | 319 | 347.4 | 269.9 | 441.1 | 452.7 | 824.9 |
| PANK2 | 86.5 | 81.4 | 91.4 | 80.4 | 84.2 | 83.6 | 79 | 77.2 |
| PANK3 | 159.3 | 202.6 | 132.7 | 134.6 | 125 | 154.1 | 145.9 | 162.6 |
| PANK4 | 145 | 170.5 | 151.2 | 149.4 | 133.5 | 191.4 | 133.2 | 173.9 |
| PANX1 | 156.7 | 232.1 | 142.9 | 133.7 | 106.9 | 140.2 | 165.4 | 260 |
| PANX2 | 185 | 221.4 | 120.5 | 143 | 152 | 149.2 | 538.1 | 812.3 |
| PANX3 | 103.9 | 127.5 | 112.9 | 116 | 110.5 | 102.8 | 96.7 | 103 |
| PAOX | 122.5 | 141 | 117.9 | 106.5 | 106.6 | 119.8 | 108.8 | 135.5 |
| PAOX | 358.6 | 469.7 | 203 | 171.7 | 166 | 184.4 | 259.6 | 258.1 |
| PAOX | 109.7 | 150.7 | 88.7 | 78.1 | 71.5 | 88 | 109.2 | 133.7 |
| PAP2 | 89.3 | 93.5 | 99.3 | 95.3 | 90 | 89.2 | 101 | 102 |
| PAP2D | 83.3 | 83.3 | 97 | 76.8 | 97.3 | 78 | 79.2 | 85.6 |
| PAPD1 | 1104 | 1409.1 | 693.3 | 547.3 | 376.2 | 497 | 853.7 | 1233.5 |
| PAPD4 | 1527.9 | 1888.9 | 950.2 | 1158.8 | 1010.9 | 1784.6 | 1241.4 | 2785 |
| PAPD5 | 464.5 | 635.8 | 174.7 | 188.2 | 147.9 | 135.8 | 406.3 | 496.9 |
| PAPLN | 183.2 | 204.9 | 119.7 | 180.7 | 172.1 | 202.4 | 137.9 | 184.5 |
| PAPOLA | 3204.9 | 3915.6 | 1682.1 | 1807.6 | 1223.5 | 2721.7 | 2329.1 | 3705.1 |
| PAPOLB | 84.3 | 92.8 | 94.9 | 77 | 72.8 | 83.6 | 86.4 | 91.2 |
| PAPOLG | 123.9 | 138.3 | 121.9 | 115 | 113.6 | 111.3 | 119.2 | 120.6 |
| PAPPA | 78.4 | 78.5 | 88.3 | 80.2 | 85 | 87.9 | 79.6 | 79.5 |
| PAPPA2 | 71 | 78.9 | 94.4 | 89.5 | 91 | 78.1 | 84.6 | 80.6 |
| PAPPA2 | 84.1 | 105.4 | 94.5 | 92.9 | 88.3 | 85.6 | 88.8 | 80.8 |
| PAPSS1 | 122.6 | 129.3 | 120 | 130.5 | 120.1 | 160 | 109.2 | 145 |
| PAPSS2 | 207.5 | 268.1 | 178.2 | 228.8 | 201.9 | 212.9 | 171.9 | 241.2 |
| PAQR3 | 475.8 | 578.9 | 294.9 | 285.3 | 200.9 | 373.5 | 387.3 | 731.7 |
| PAQR4 | 2358.8 | 3145.9 | 1521.2 | 865.6 | 708.4 | 819.7 | 1648.9 | 1637.9 |
| PAQR5 | 80.6 | 84.6 | 86.8 | 103.3 | 84.1 | 78.8 | 77.1 | 81.2 |
| PAQR6 | 122.8 | 136.1 | 91.4 | 93.1 | 83.9 | 90 | 109.9 | 145.8 |
| PAQR6 | 110.3 | 109.4 | 109.3 | 105.9 | 100.4 | 118.6 | 104.1 | 95.5 |
| PAQR6 | 100.4 | 106.2 | 111.1 | 106.6 | 107.9 | 146.4 | 84 | 103.4 |
| PAQR7 | 156.3 | 207.4 | 130.5 | 94.8 | 101.2 | 117.5 | 157.1 | 186.1 |
| PAQR8 | 2372.6 | 3226.3 | 1032.2 | 1999.9 | 922.8 | 2142.7 | 1245.6 | 1340.5 |
| PAQR9 | 88.8 | 113.1 | 97.9 | 96.7 | 92.7 | 94.5 | 91.9 | 112.4 |
| PARC | 180.1 | 184.2 | 130.2 | 123.1 | 120.7 | 144.2 | 129.9 | 201.9 |
| PARD3 | 114.3 | 129.7 | 93.3 | 98.3 | 90.6 | 85.8 | 113.4 | 119.5 |
| PARD3B | 102.5 | 108.2 | 97.8 | 85.1 | 88.8 | 90.5 | 94.3 | 101.8 |
| PARD6A | 153.3 | 164.8 | 109.8 | 95.4 | 86.4 | 96.8 | 132.4 | 157.5 |
| PARD6A | 112.9 | 126.7 | 100.3 | 101.3 | 87.4 | 88.4 | 117.8 | 138.5 |
| PARD6B | 120.8 | 119.7 | 92.5 | 100.5 | 87.2 | 94 | 118 | 124.7 |
| PARD6G | 130.8 | 168.2 | 103.2 | 110.7 | 100.5 | 114.8 | 120.7 | 163.5 |
| PARD6G | 100.1 | 128.3 | 106.5 | 101.6 | 93.2 | 103.5 | 107.3 | 119.7 |
| PARG | 133 | 169 | 114.3 | 91.2 | 90.5 | 104.5 | 115.1 | 168 |
| PARK2 | 89.8 | 91.5 | 86.4 | 90.1 | 95 | 90.5 | 87.3 | 92 |
| PARK2 | 85.8 | 97.7 | 96.4 | 84.3 | 90.8 | 94.9 | 88.3 | 92 |
| PARK7 | 7728.3 | 9210.9 | 4400.1 | 4230 | 3403.1 | 4098.4 | 7242.1 | 8483.4 |

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|--------|--------|---------|--------|--------|--------|--------|--------|---------|
| PARL | 4275.9 | 5251.9 | 3489 | 4068.9 | 3531.3 | 5139.6 | 3675.7 | 5016.9 |
| PARL | 2215.4 | 3759.8 | 924.3 | 1149.5 | 1008.5 | 1462.3 | 2219.1 | 2689.2 |
| PARN | 790.5 | 1090.1 | 310.7 | 244.3 | 216.8 | 288.3 | 765.7 | 706 |
| PARP1 | 9381.7 | 10265.8 | 6258.2 | 5547.2 | 4443.6 | 7475.8 | 7598.7 | 10102.7 |
| PARP10 | 152.4 | 169.3 | 112.2 | 115.1 | 91.2 | 130.2 | 129.8 | 152.8 |
| PARP10 | 361.8 | 383.7 | 200.3 | 166 | 176.1 | 192.9 | 204.8 | 224.8 |
| PARP11 | 107 | 139.3 | 106.9 | 132.2 | 120.7 | 162.2 | 107.9 | 137.6 |
| PARP12 | 186.2 | 211.1 | 179.8 | 151.5 | 157.2 | 174.6 | 152.7 | 221.1 |
| PARP14 | 282.1 | 369.1 | 183.1 | 139.4 | 143 | 164.4 | 274.2 | 292.3 |
| PARP15 | 121.2 | 136.7 | 97.1 | 90.5 | 84.2 | 85.2 | 105.1 | 135.1 |
| PARP16 | 145.9 | 173.6 | 133.3 | 176.1 | 125.2 | 174.3 | 129.9 | 186.3 |
| PARP2 | 833.8 | 1042.1 | 458 | 370.3 | 290.7 | 475 | 721.3 | 1398.6 |
| PARP2 | 426.1 | 543.4 | 275.3 | 166.2 | 171.5 | 214 | 307.2 | 466.7 |
| PARP3 | 131.6 | 139.4 | 93.6 | 101.3 | 91.8 | 90.8 | 111.9 | 127.4 |
| PARP3 | 576 | 640.1 | 393.3 | 386 | 326.7 | 459.5 | 417.4 | 528 |
| PARP3 | 157.5 | 175.1 | 148.5 | 157 | 147.7 | 181.6 | 112.9 | 175.2 |
| PARP4 | 1515.5 | 1954.5 | 1493.8 | 1960.3 | 1667.5 | 2205.8 | 1559.2 | 1472.7 |
| PARP6 | 134.7 | 168.4 | 115.4 | 124.9 | 125.3 | 105.5 | 120.6 | 152.4 |
| PARP6 | 232.6 | 274.5 | 138.1 | 146.8 | 130.9 | 188.3 | 191.8 | 297.1 |
| PARP6 | 105.4 | 106.5 | 106.2 | 104.8 | 97.4 | 106.5 | 82.6 | 95.3 |
| PARP8 | 1772.1 | 2019.7 | 605.9 | 659.2 | 516.4 | 608.4 | 1150.5 | 1318.9 |
| PARP9 | 140 | 162.1 | 106.8 | 87.4 | 96.2 | 103.8 | 135.2 | 175.8 |
| PARS2 | 117 | 166.3 | 106.2 | 88.4 | 97.2 | 98.5 | 119.6 | 151.5 |
| PART1 | 81.7 | 97.8 | 89.8 | 88.7 | 92.2 | 94 | 94.7 | 99.5 |
| PARVA | 125.3 | 142.9 | 130.2 | 127 | 109.3 | 130.8 | 124.9 | 161.5 |
| PARVB | 689.6 | 872.9 | 856.3 | 865.1 | 634 | 1354.7 | 660.7 | 1792 |
| PARVB | 105.3 | 145.3 | 101.6 | 118.4 | 109.5 | 117.7 | 108.3 | 129.3 |
| PARVB | 183.9 | 185.6 | 116.2 | 114.9 | 105.2 | 88.3 | 144.1 | 174.2 |
| PARVG | 3121.2 | 4272.8 | 3715.6 | 2950.8 | 2702.9 | 4558.1 | 2809.2 | 4371.1 |
| PASD1 | 82.4 | 87.9 | 87.5 | 92.8 | 82.3 | 86.2 | 78 | 78.9 |
| PASK | 194.2 | 215.5 | 192.5 | 142.7 | 145.7 | 178.8 | 161.1 | 186.9 |
| PATE | 116.3 | 136.2 | 107.1 | 98.8 | 96.6 | 99 | 108.8 | 114 |
| PATZ1 | 135.2 | 165 | 98.9 | 88.7 | 83.5 | 82.1 | 107.7 | 145.1 |
| PAX1 | 100.5 | 110.3 | 98.2 | 88.7 | 87.3 | 92.3 | 102.9 | 102.4 |
| PAX2 | 97.5 | 101.3 | 121.7 | 97.3 | 110.3 | 97.2 | 91.7 | 90.7 |
| PAX2 | 80.1 | 86.8 | 86.1 | 83.1 | 82.1 | 89.3 | 82.8 | 88.3 |
| PAX2 | 103.4 | 126.8 | 97.9 | 103.8 | 94 | 95.6 | 107.3 | 117.6 |
| PAX3 | 89.7 | 116.3 | 90.6 | 94.1 | 84.5 | 90.8 | 104.2 | 98.3 |
| PAX3 | 132.3 | 153.5 | 88.6 | 82.8 | 75.7 | 83.6 | 118 | 153 |
| PAX3 | 91.9 | 100.3 | 84.8 | 78.9 | 73.6 | 101.2 | 100.2 | 103.9 |
| PAX3 | 110.6 | 97.8 | 93.6 | 92.2 | 92.6 | 92.4 | 100.1 | 112.3 |
| PAX4 | 100.6 | 123.5 | 116.4 | 90.8 | 98.6 | 90.8 | 107.6 | 122.1 |
| PAX5 | 82.9 | 90.6 | 89.2 | 74.6 | 74.6 | 80.4 | 80 | 97.4 |
| PAX6 | 78.6 | 79.6 | 93.4 | 77.7 | 76 | 86.9 | 79.1 | 82.3 |
| PAX6 | 124.5 | 163.7 | 94.7 | 73.5 | 77.7 | 78.3 | 113.5 | 152.5 |
| PAX7 | 457.8 | 484.9 | 268.2 | 243.3 | 203.8 | 266.3 | 394.8 | 497 |
| PAX8 | 136.1 | 159.2 | 98.4 | 96.8 | 86.7 | 101.8 | 138.4 | 172.5 |
| PAX8 | 98 | 102.2 | 111.5 | 86.9 | 89 | 91.8 | 93.9 | 95.2 |
| PAX8 | 83.3 | 87.1 | 95.6 | 88.5 | 74.9 | 80.1 | 76.4 | 88.3 |
| PAX9 | 106.6 | 155 | 107 | 84.4 | 83.8 | 92.8 | 121.8 | 127 |

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|---------|---------|---------|--------|--------|--------|--------|--------|---------|
| PAXIP1 | 1018.8 | 1321.3 | 791.5 | 837.6 | 729.2 | 889.3 | 710.4 | 734.5 |
| PB1 | 87.7 | 111.8 | 118.7 | 102.6 | 100.2 | 116.8 | 92.9 | 102 |
| PB1 | 231.1 | 300.2 | 183.6 | 205.7 | 175 | 203.9 | 199.5 | 210.9 |
| PB1 | 199.2 | 198.8 | 157.8 | 159.2 | 157.6 | 207.9 | 165.8 | 321.6 |
| PBEF1 | 340.4 | 481.2 | 135.4 | 97 | 102.6 | 144.8 | 363.8 | 532.8 |
| PBEF1 | 255.6 | 327.8 | 143.8 | 118.2 | 115.6 | 138.2 | 219.2 | 289.5 |
| PBK | 2200.2 | 2952.8 | 1003.3 | 549 | 532.8 | 645.8 | 1441.3 | 1925.2 |
| PBOV1 | 90 | 115.2 | 93 | 85.2 | 83 | 98.2 | 93.4 | 108.7 |
| PBX1 | 89.7 | 102.8 | 95 | 95.3 | 77.7 | 89.5 | 98.6 | 90.4 |
| PBX2 | 483.1 | 576.8 | 276.3 | 432 | 434.1 | 432.9 | 433.3 | 385.8 |
| PBX3 | 8971.6 | 10367.6 | 6778 | 6249.7 | 5030.2 | 6213.2 | 7991.1 | 8750.5 |
| PBX4 | 115.6 | 126.3 | 123.3 | 112.7 | 99.1 | 112.7 | 113.8 | 155.8 |
| PBXIP1 | 105 | 138.2 | 111.4 | 96.6 | 108.1 | 111.5 | 101.2 | 125.7 |
| PC | 87.4 | 98.3 | 91.3 | 84.5 | 81.3 | 87.3 | 81.4 | 95.9 |
| PC | 78.3 | 99.1 | 100.2 | 85.5 | 92.8 | 89.2 | 90.2 | 106.2 |
| PC | 81.9 | 100.6 | 135.1 | 109.1 | 104.1 | 125.5 | 85.3 | 102.7 |
| PC-3 | 96.8 | 102.6 | 89.7 | 83.9 | 87 | 85.6 | 101 | 107.4 |
| PCAF | 98.7 | 107.6 | 90.7 | 94.5 | 91.5 | 103.2 | 107.7 | 116.2 |
| PCBD1 | 529.6 | 694.8 | 359.8 | 271.1 | 232.5 | 303.4 | 452.6 | 655.7 |
| PCBD1 | 527.6 | 665.4 | 432.8 | 310 | 277.3 | 318.2 | 496.9 | 583.6 |
| PCBD2 | 231.3 | 272.6 | 156.7 | 175.1 | 170.5 | 190 | 204.8 | 252.1 |
| PCBP1 | 10573.4 | 13058.9 | 5369 | 5207.7 | 3403.7 | 5251.5 | 8631.6 | 10444 |
| PCBP2 | 8839.5 | 11180.2 | 5106 | 5712.6 | 4830.2 | 6922.9 | 7816.5 | 13307.8 |
| PCBP2 | 3105.4 | 4449.7 | 2405.7 | 2971.9 | 2554.6 | 3716.4 | 2855.8 | 4165.8 |
| PCBP3 | 90.7 | 94.5 | 93.9 | 95.6 | 90.8 | 84.3 | 78.8 | 105.1 |
| PCBP4 | 677.2 | 945.9 | 212.6 | 203.6 | 184.5 | 288.8 | 581.6 | 772.9 |
| PCBP4 | 104.9 | 123.8 | 103.1 | 101.9 | 92.4 | 84.7 | 101.8 | 107.8 |
| PCBP4 | 105.9 | 134.8 | 95.4 | 102.7 | 84.9 | 92.8 | 110.4 | 138.9 |
| PCBP4 | 422.7 | 551.1 | 252.1 | 233.9 | 225.5 | 349.2 | 433.7 | 495.4 |
| PCCA | 1104.8 | 1346.9 | 525.6 | 515.4 | 452.1 | 657.6 | 932.2 | 1588.4 |
| PCCB | 4605.6 | 5757.8 | 3606.4 | 2778.3 | 2241.2 | 3311.3 | 3808.6 | 4894.7 |
| PCDH1 | 87 | 99 | 91.3 | 87.9 | 76.9 | 83.5 | 87.4 | 96.5 |
| PCDH1 | 95.4 | 112.5 | 101.7 | 94.4 | 92.4 | 80.2 | 106.4 | 111.6 |
| PCDH10 | 80.9 | 97.7 | 80.7 | 79.6 | 80.8 | 83.5 | 90.8 | 91.6 |
| PCDH10 | 126.9 | 158 | 91.7 | 91.7 | 80.2 | 85.3 | 110.2 | 132.1 |
| PCDH10 | 85.9 | 97.7 | 90.8 | 92.9 | 85.9 | 90.7 | 113.2 | 90.6 |
| PCDH11X | 98.4 | 115.1 | 99.8 | 90.2 | 100.7 | 104.9 | 113.2 | 106.3 |
| PCDH11X | 87.2 | 91.5 | 97.8 | 87.6 | 96.9 | 84.7 | 94 | 89.2 |
| PCDH11X | 78 | 90.8 | 100.5 | 92.4 | 94.6 | 97.8 | 83.9 | 89.2 |
| PCDH11Y | 68.6 | 80.6 | 90.2 | 81.5 | 84.5 | 88.2 | 71.2 | 84.5 |
| PCDH11Y | 87.1 | 78.5 | 88.4 | 78.6 | 83 | 89.7 | 78.7 | 83 |
| PCDH11Y | 87.8 | 110.3 | 89.5 | 93.1 | 84.7 | 88.9 | 101.9 | 102.5 |
| PCDH12 | 134.8 | 165.7 | 93.7 | 93.8 | 85 | 88 | 149.1 | 160.4 |
| PCDH15 | 79.4 | 94.3 | 98.2 | 98.8 | 89 | 91.7 | 87.1 | 92.2 |
| PCDH17 | 91.6 | 99 | 110 | 93.3 | 87.3 | 88.8 | 85.4 | 92.6 |
| PCDH18 | 95.3 | 113.3 | 114.3 | 106.6 | 86.5 | 93.5 | 99.6 | 104.1 |
| PCDH19 | 89.4 | 92.2 | 101.4 | 99.7 | 92 | 95 | 82 | 84 |
| PCDH20 | 227.3 | 218.5 | 157.9 | 160.6 | 133.3 | 164.1 | 200.5 | 288.2 |
| PCDH21 | 132.2 | 170.9 | 92.6 | 85.7 | 77.8 | 97.7 | 144.8 | 172.7 |
| PCDH7 | 86.2 | 109.8 | 92.2 | 119.5 | 101.3 | 109.3 | 93.2 | 92.8 |

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|---------|--------|--------|-------|-------|-------|-------|-------|--------|
| PCDH7 | 87.2 | 95.2 | 84.9 | 77.7 | 81.3 | 83.4 | 85.7 | 91 |
| PCDH7 | 91.6 | 88.5 | 96.8 | 96 | 90 | 103.5 | 82.5 | 102.8 |
| PCDH7 | 84.4 | 87.6 | 88.3 | 90.2 | 92.4 | 93.1 | 81.1 | 92.5 |
| PCDH8 | 90.4 | 102.4 | 114.6 | 91.1 | 97.1 | 95.3 | 91.1 | 101.9 |
| PCDH8 | 106.5 | 108.6 | 95.1 | 81.1 | 80.4 | 86.9 | 92.8 | 117.6 |
| PCDH9 | 82.3 | 96 | 87.1 | 87.7 | 82.9 | 88.7 | 79.8 | 88.5 |
| PCDH9 | 87.1 | 93.4 | 90.6 | 95.8 | 85.9 | 78.7 | 82.3 | 92.8 |
| PCDH9 | 127.8 | 156.8 | 93.7 | 91.6 | 76.9 | 106.8 | 119.8 | 164.8 |
| PCDHA1 | 94.8 | 103.6 | 97.9 | 83.1 | 85.2 | 92.3 | 90.3 | 96 |
| PCDHA1 | 75.4 | 84.2 | 93 | 77.9 | 86.5 | 101.6 | 84.3 | 80 |
| PCDHA1 | 76.3 | 77 | 105.6 | 93.9 | 88.7 | 101.8 | 77 | 81.9 |
| PCDHA10 | 92.8 | 89.5 | 99.8 | 85.5 | 82.2 | 91.7 | 81.9 | 97.4 |
| PCDHA10 | 75.5 | 91.7 | 90.3 | 77.9 | 79.8 | 86.2 | 81.2 | 85.8 |
| PCDHA11 | 141.4 | 160.2 | 106.4 | 105.1 | 91.2 | 96.7 | 133.4 | 140.6 |
| PCDHA12 | 98.2 | 107.5 | 87.7 | 80.5 | 75 | 95.1 | 90.6 | 108.2 |
| PCDHA12 | 81.3 | 83.4 | 92.6 | 98.8 | 89.6 | 95.1 | 87.1 | 84 |
| PCDHA13 | 90.4 | 99.4 | 84.2 | 81.8 | 83.4 | 81.5 | 93.4 | 102.9 |
| PCDHA2 | 77.2 | 86.5 | 88.5 | 71.8 | 74.1 | 84.3 | 88.8 | 88.1 |
| PCDHA3 | 97.7 | 122.9 | 85.8 | 80.5 | 80 | 87.5 | 93.3 | 109.8 |
| PCDHA3 | 80.7 | 97.4 | 88.3 | 84.7 | 81.4 | 86.6 | 82.8 | 83.9 |
| PCDHA3 | 89.4 | 98.7 | 95.9 | 88.3 | 82.3 | 89.2 | 87.4 | 88.5 |
| PCDHA4 | 93.3 | 98.7 | 102.4 | 106.2 | 83.7 | 117.4 | 91.9 | 100.9 |
| PCDHA5 | 144 | 193 | 115.9 | 101.8 | 103.9 | 112.3 | 144.7 | 187.1 |
| PCDHA6 | 77.2 | 80.5 | 98.8 | 90.5 | 90 | 91.6 | 79.4 | 85.8 |
| PCDHA6 | 108 | 139 | 95.2 | 91.1 | 87.5 | 90.9 | 113.2 | 127 |
| PCDHA7 | 89.7 | 92.5 | 96.2 | 80.6 | 86.5 | 90.1 | 82.5 | 92.7 |
| PCDHA7 | 123.2 | 141.3 | 122.8 | 111.2 | 107.1 | 106.4 | 116.3 | 121.9 |
| PCDHA7 | 79.1 | 86.8 | 90 | 83.5 | 82.5 | 85.6 | 73.5 | 85.8 |
| PCDHA8 | 99 | 118.7 | 95.7 | 87.2 | 82.8 | 82.4 | 93.5 | 118.5 |
| PCDHA9 | 85.5 | 89.4 | 101.8 | 93.8 | 94.4 | 84.3 | 84.1 | 100.6 |
| PCDHA9 | 78 | 86.8 | 86 | 81.2 | 81.6 | 87.6 | 79.7 | 83.5 |
| PCDHAC1 | 90 | 95 | 95.3 | 87.2 | 82.3 | 82.2 | 85.6 | 84.3 |
| PCDHAC1 | 75.3 | 82.6 | 83.6 | 83.9 | 84.9 | 87.3 | 72.7 | 76.1 |
| PCDHAC2 | 117.2 | 134.5 | 86.8 | 79.8 | 90.4 | 108.8 | 111.4 | 137.6 |
| PCDHAC2 | 89.2 | 97 | 93.6 | 90.9 | 78.2 | 87.7 | 90.8 | 105 |
| PCDHAC2 | 105.4 | 136.3 | 99.4 | 121.5 | 101.1 | 118 | 110.5 | 127.6 |
| PCDHB1 | 77.8 | 73.9 | 95.9 | 79.5 | 79.4 | 78.5 | 72.8 | 78.5 |
| PCDHB10 | 93.9 | 89.2 | 103.3 | 103 | 89.6 | 102.4 | 88.1 | 115.4 |
| PCDHB11 | 71.2 | 78 | 93.7 | 83.5 | 72.6 | 74.6 | 70.3 | 83 |
| PCDHB12 | 108.1 | 118.4 | 98.9 | 83.8 | 89.6 | 97.3 | 101.1 | 110.6 |
| PCDHB13 | 92.8 | 100.8 | 90 | 96.3 | 90.8 | 93.8 | 98 | 105.8 |
| PCDHB14 | 105.3 | 124.5 | 107.5 | 100 | 96.9 | 104.3 | 98.4 | 113.7 |
| PCDHB15 | 73.6 | 83.3 | 91 | 79.8 | 74.2 | 85.7 | 71.6 | 80.1 |
| PCDHB16 | 91.7 | 100.6 | 92 | 95.7 | 81.5 | 91.2 | 87.8 | 98.2 |
| PCDHB17 | 209.7 | 249.6 | 171.5 | 131 | 126.5 | 147.9 | 192.7 | 287.5 |
| PCDHB18 | 88.3 | 96.7 | 94.3 | 83.4 | 85.4 | 82.3 | 86.5 | 97.5 |
| PCDHB2 | 1133.7 | 1396.4 | 841.8 | 563.2 | 420 | 579.8 | 992.7 | 1284.7 |
| PCDHB3 | 94.8 | 108.2 | 94.5 | 80.6 | 81.2 | 86.1 | 109.4 | 97.4 |
| PCDHB4 | 97.8 | 104 | 92 | 93.1 | 95.9 | 102 | 89.5 | 119.7 |
| PCDHB5 | 303 | 384.9 | 239 | 201.6 | 165.7 | 221.8 | 255 | 421.7 |

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|----------|-------|--------|--------|--------|--------|--------|--------|--------|
| PCDHB6 | 71.2 | 82.4 | 85.2 | 79.5 | 77.6 | 79.8 | 65.9 | 77.1 |
| PCDHB7 | 71.5 | 88 | 88.6 | 86.9 | 79.1 | 84.2 | 71.8 | 77.8 |
| PCDHB8 | 89.7 | 104.4 | 97.2 | 94.4 | 81.2 | 85.1 | 85.9 | 103.2 |
| PCDHB9 | 248.9 | 303.1 | 152.5 | 213.8 | 228.8 | 160.7 | 252.1 | 255.1 |
| PCDHGA1 | 109.3 | 134.5 | 94.3 | 90.2 | 83.1 | 93.7 | 104.3 | 120.2 |
| PCDHGA1 | 96 | 104.8 | 95.7 | 95.5 | 90.9 | 95.8 | 94.5 | 100.2 |
| PCDHGA1 | 80.8 | 83.8 | 90.2 | 93.8 | 86.8 | 83.5 | 76.5 | 87.6 |
| PCDHGA10 | 97.9 | 123.5 | 98.8 | 88.2 | 100.1 | 88.2 | 103.4 | 105.4 |
| PCDHGA11 | 84.8 | 106.2 | 92.9 | 84.9 | 83.7 | 84 | 100 | 103.9 |
| PCDHGA11 | 81.7 | 88.5 | 90.9 | 82.4 | 82.9 | 84 | 84.2 | 84.3 |
| PCDHGA12 | 85.5 | 94.3 | 89.4 | 84.9 | 93.8 | 88.4 | 83.2 | 94.5 |
| PCDHGA2 | 81.2 | 85.7 | 90.6 | 84.8 | 78 | 90.4 | 84.2 | 79.4 |
| PCDHGA3 | 82.9 | 90 | 88 | 97.6 | 80.3 | 80.7 | 83.7 | 97.2 |
| PCDHGA3 | 84.3 | 90.2 | 87.1 | 90.3 | 90.6 | 99.4 | 89 | 86 |
| PCDHGA4 | 72.1 | 85.6 | 78.4 | 75.3 | 74 | 70.3 | 74.7 | 74.6 |
| PCDHGA4 | 90.8 | 94.5 | 76.6 | 72.4 | 76.6 | 73.5 | 76.9 | 86.8 |
| PCDHGA5 | 93.2 | 110.5 | 95.5 | 93 | 87 | 102 | 93.1 | 107.7 |
| PCDHGA5 | 87.5 | 100.2 | 88.5 | 102.5 | 74.7 | 84.3 | 89.5 | 110.4 |
| PCDHGA6 | 85.7 | 86.1 | 105.7 | 98.7 | 92.5 | 106.2 | 80.8 | 74.8 |
| PCDHGA7 | 79.8 | 86.6 | 93.8 | 89.7 | 85.6 | 87.3 | 79.7 | 86 |
| PCDHGA7 | 72.1 | 74.4 | 84.8 | 76.5 | 72.8 | 76.8 | 70.4 | 76.2 |
| PCDHGA8 | 82.9 | 91.7 | 93.7 | 81.1 | 82.1 | 79.7 | 81.6 | 97.5 |
| PCDHGA9 | 134.6 | 158.3 | 91.8 | 77.2 | 76.5 | 82.6 | 123.1 | 165 |
| PCDHGA9 | 139.3 | 180.4 | 96.7 | 88 | 98.7 | 97 | 141.7 | 155.2 |
| PCDHGB1 | 106.4 | 122 | 99.3 | 90.7 | 94.5 | 90.7 | 107.1 | 112.4 |
| PCDHGB2 | 89.7 | 99.2 | 100.6 | 86.2 | 91.3 | 102.9 | 86.6 | 94.8 |
| PCDHGB3 | 84.8 | 99.2 | 101.1 | 95.9 | 94.8 | 92.1 | 92.3 | 102.6 |
| PCDHGB4 | 140.7 | 168.3 | 106 | 96.8 | 96.3 | 95.7 | 116.2 | 143.3 |
| PCDHGB5 | 79.5 | 85.4 | 96.3 | 98.9 | 92.6 | 94.8 | 82.5 | 81.3 |
| PCDHGB6 | 87.4 | 91.5 | 91.4 | 96.7 | 93.6 | 87.4 | 85.1 | 95.1 |
| PCDHGB6 | 192.2 | 204.6 | 122.8 | 110.1 | 112.2 | 122.9 | 176.7 | 212.8 |
| PCDHGB7 | 79.3 | 100.6 | 95.3 | 85.9 | 89.6 | 93.5 | 86.4 | 93.7 |
| PCDHGB7 | 73.3 | 78 | 90 | 88.8 | 87.3 | 78.9 | 69.6 | 88.4 |
| PCDHGC3 | 97.3 | 120 | 95.3 | 86.4 | 92.7 | 88.4 | 96.2 | 115.5 |
| PCDHGC3 | 104.9 | 110 | 109 | 101.2 | 104.6 | 102.5 | 100.3 | 101 |
| PCDHGC3 | 146.9 | 169.7 | 106.1 | 110.6 | 105.2 | 105.2 | 133.7 | 150.5 |
| PCDHGC4 | 108.3 | 110.9 | 105.1 | 94.5 | 84.4 | 89.9 | 98.3 | 114.6 |
| PCDHGC4 | 82.5 | 81.2 | 78.2 | 78.6 | 77.2 | 75 | 70.4 | 85.4 |
| PCDHGC5 | 77.6 | 88 | 85.7 | 89.3 | 90.8 | 91.8 | 77.8 | 92.1 |
| PCDHGC5 | 76.4 | 84.8 | 101.5 | 90.8 | 95.4 | 109.4 | 84 | 82.4 |
| PCF11 | 378.9 | 439.6 | 262.1 | 288.1 | 231.9 | 360.6 | 300.3 | 681.3 |
| PCGF1 | 391.7 | 485.6 | 334.1 | 307.8 | 240.9 | 476.6 | 361.6 | 596.1 |
| PCGF2 | 166.1 | 215.6 | 172.4 | 110.5 | 89.8 | 105.1 | 166.2 | 232.8 |
| PCGF3 | 109 | 129.4 | 110.1 | 90.1 | 90.3 | 98.4 | 110.5 | 114.7 |
| PCGF4 | 5136 | 5831.1 | 2398.5 | 1823.5 | 1333.5 | 2257.5 | 3935.7 | 5733.3 |
| PCGF5 | 127.1 | 132.8 | 113.5 | 103.6 | 80.4 | 104.2 | 129.4 | 211.5 |
| PCGF6 | 383.9 | 475 | 201.8 | 164.7 | 154.8 | 172.5 | 358.7 | 629.4 |
| PCGF6 | 427.6 | 554.4 | 223.3 | 180.4 | 144.1 | 175.7 | 301.9 | 471.5 |
| PCID1 | 2464 | 3383.9 | 898.4 | 687.6 | 543.4 | 762.4 | 2456 | 4263.9 |
| PCK1 | 75.5 | 81.3 | 80.3 | 87.8 | 80.4 | 90.9 | 79.5 | 78.5 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| PCK2 | 190.6 | 276.3 | 182.3 | 113.8 | 116.2 | 112.3 | 167 | 247.9 |
| PCK2 | 1180.6 | 1415 | 973.1 | 499.2 | 426.9 | 634.1 | 1037.9 | 1769.7 |
| PCK2 | 146.9 | 174.5 | 114.7 | 89.2 | 85.7 | 87.3 | 133.1 | 203.9 |
| PCLKC | 176.6 | 199.8 | 135.8 | 111.8 | 114 | 113.8 | 154.7 | 158.6 |
| PCM1 | 2468.7 | 2926.9 | 1085.8 | 1447.3 | 1134.6 | 1982.4 | 2057.3 | 3082.8 |
| PCMT1 | 5402 | 6485.7 | 3689.2 | 3872.6 | 3132.5 | 4468 | 5028.7 | 6625.8 |
| PCMTD1 | 406.7 | 524.9 | 173.4 | 204 | 167.3 | 255.5 | 434.9 | 770.5 |
| PCMTD2 | 427.1 | 515.5 | 399.7 | 519.1 | 499.4 | 883.8 | 359.1 | 604.4 |
| PCNA | 150.5 | 172.8 | 107.5 | 97.5 | 90.4 | 98.7 | 131.3 | 158.8 |
| PCNA | 172.6 | 226.6 | 129.2 | 132.5 | 125.5 | 133.6 | 149 | 167.5 |
| PCNA | 3786.3 | 4737.8 | 1280.7 | 1098.2 | 741.7 | 1118.8 | 2853.6 | 5640.9 |
| PCNP | 4006.6 | 4469.6 | 3051.4 | 3750.9 | 2866.8 | 4574.4 | 3714.8 | 6016.3 |
| PCNT2 | 504.7 | 658.4 | 506.5 | 850.6 | 902.3 | 1271.3 | 447.2 | 500.4 |
| PCNX | 402.9 | 531.6 | 324.2 | 355 | 348.6 | 468.8 | 411 | 347.9 |
| PCNXL2 | 123.6 | 133.5 | 103.3 | 103.3 | 90.2 | 116.2 | 119.9 | 131.8 |
| PCNXL2 | 102.1 | 119.9 | 110.3 | 117.7 | 103.8 | 117.3 | 98.8 | 107.3 |
| PCNXL2 | 97.1 | 101.1 | 117.2 | 118.8 | 120.1 | 120.9 | 93.6 | 90.6 |
| PCOLCE | 108.1 | 125.8 | 113.2 | 97.5 | 98.2 | 114.5 | 100.7 | 145.6 |
| PCOLCE2 | 186.8 | 211.2 | 120.5 | 239.5 | 146.5 | 244.6 | 157.6 | 195 |
| PCOLN3 | 396.9 | 551.2 | 401.5 | 297.3 | 236.1 | 402 | 383.4 | 837 |
| PCP2 | 111.4 | 124.8 | 116.3 | 96.8 | 96.2 | 101 | 105.6 | 124.5 |
| PCP4 | 79.2 | 77.6 | 101.6 | 92 | 80.6 | 88.3 | 86.9 | 82.4 |
| PCQAP | 115.8 | 148 | 136.3 | 150.6 | 126.3 | 184.8 | 116.6 | 164.7 |
| PCQAP | 119 | 125.6 | 142.3 | 126.4 | 122.1 | 127 | 98.9 | 110.9 |
| PCSK1 | 85.7 | 107.4 | 84.6 | 75.9 | 76.4 | 86.6 | 96.1 | 104 |
| PCSK1N | 108.6 | 134.8 | 92.6 | 75.3 | 75.7 | 79.5 | 95.6 | 125.8 |
| PCSK2 | 79.3 | 90 | 84.5 | 81.5 | 80.7 | 85.2 | 93.6 | 79.9 |
| PCSK4 | 120.3 | 129.1 | 101.8 | 94.4 | 98.8 | 98.7 | 113.1 | 111.6 |
| PCSK6 | 105.9 | 113.1 | 85.3 | 89.3 | 81.1 | 88.7 | 95 | 103.6 |
| PCSK6 | 93.2 | 113.1 | 90.9 | 92.4 | 78.9 | 91.4 | 93.5 | 103 |
| PCSK6 | 123 | 166.9 | 115.3 | 108.4 | 104.3 | 106.5 | 127.2 | 133.5 |
| PCSK6 | 86.4 | 99.3 | 104.7 | 106 | 91.7 | 97.5 | 90.3 | 94.1 |
| PCSK6 | 92 | 117.7 | 86.2 | 97.8 | 94.3 | 92.6 | 96.7 | 107.1 |
| PCSK7 | 341.6 | 382.1 | 292.8 | 292.8 | 236.1 | 340 | 292.6 | 414.2 |
| PCSK9 | 107.1 | 113.2 | 103.1 | 91.6 | 82.9 | 101.2 | 108.6 | 119 |
| PCTK1 | 107.4 | 126.9 | 115.3 | 100.9 | 91.3 | 83.6 | 91.5 | 113 |
| PCTK1 | 72.5 | 85.4 | 91.3 | 83.2 | 85 | 83.2 | 76.1 | 77.6 |
| PCTK2 | 132.9 | 147.7 | 102.9 | 98 | 78.6 | 95.5 | 130.6 | 155.4 |
| PCTK3 | 113.8 | 136 | 117.4 | 113.6 | 120 | 123.7 | 108.9 | 135.2 |
| PCTK3 | 124 | 135.7 | 79.7 | 86.1 | 78.3 | 86.4 | 115.9 | 121.8 |
| PCTK3 | 132.3 | 120.3 | 93.6 | 95.2 | 77.9 | 90.2 | 112 | 127.3 |
| PCTK3 | 81.5 | 87 | 87.7 | 78.2 | 82.6 | 92 | 79.1 | 86.2 |
| PCTP | 375.8 | 484 | 167.3 | 154.3 | 115.8 | 188.7 | 318.7 | 520.1 |
| PCYOX1 | 425.6 | 491.4 | 307 | 541.1 | 506.7 | 465 | 366.9 | 611.9 |
| PCYT1A | 108.2 | 129 | 98.3 | 91.7 | 97.4 | 84.1 | 112.4 | 120.8 |
| PCYT1B | 96.2 | 99.4 | 96.3 | 100 | 79 | 91.7 | 93.4 | 91.7 |
| PCYT2 | 166 | 193.3 | 93.6 | 96.5 | 96.3 | 107.2 | 153.9 | 178 |
| PDAP1 | 131.3 | 174.1 | 80.9 | 79.7 | 70.6 | 84.1 | 110.3 | 148.4 |
| PDC | 88.6 | 87.4 | 101.5 | 99.8 | 85.6 | 103.4 | 85.4 | 89.9 |
| PDC | 79.2 | 86.7 | 93 | 79.2 | 82.9 | 86.2 | 84.6 | 90.1 |

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|----------|---------|---------|--------|--------|--------|--------|---------|---------|
| PDCD1 | 75.9 | 92.2 | 99.1 | 89.8 | 83.9 | 81.5 | 86.7 | 80.1 |
| PDCD10 | 362.7 | 448.7 | 141.6 | 168.6 | 140.5 | 213.4 | 269.4 | 357.4 |
| PDCD10 | 190.4 | 233.2 | 108 | 102.2 | 104.5 | 105.6 | 189.5 | 162.4 |
| PDCD10 | 2308.9 | 2724.9 | 889.4 | 960.6 | 749.8 | 1357.3 | 2028.2 | 3070.2 |
| PDCD10 | 212.6 | 237.6 | 132.1 | 117.5 | 103.8 | 159.4 | 196.9 | 334.8 |
| PDCD1LG2 | 65.1 | 84.7 | 81.7 | 72.9 | 75.4 | 73.3 | 74.7 | 79.4 |
| PDCD2 | 1222.6 | 1584.1 | 1163.3 | 1073.7 | 870.6 | 1281.4 | 810.4 | 1489.8 |
| PDCD2 | 2669.8 | 3282.2 | 2175.6 | 2397.5 | 1946.8 | 2838.7 | 1787.1 | 2612.6 |
| PDCD4 | 1338.4 | 1690.2 | 946.5 | 1627.5 | 1596.9 | 1682.8 | 1345.6 | 1739.9 |
| PDCD5 | 2135.7 | 2483.7 | 1189.5 | 1069.2 | 802.7 | 1065.8 | 1816.6 | 2851.9 |
| PDCD6 | 5777.5 | 7168.1 | 3347.6 | 4023.9 | 3191 | 4813.6 | 4379 | 6444.1 |
| PDCD6IP | 79.2 | 84.8 | 92.1 | 86.7 | 80.4 | 81 | 76 | 83.5 |
| PDCD7 | 13614.1 | 14439.6 | 4694.7 | 6330.3 | 6700.1 | 5043.3 | 12793.3 | 14632.8 |
| PDCD8 | 483.2 | 667.3 | 205.5 | 134.6 | 133.1 | 141.1 | 439.9 | 558.4 |
| PDCD8 | 530.6 | 799.3 | 334.4 | 284.7 | 249.8 | 375.2 | 473.2 | 588.3 |
| PDCD8 | 99.3 | 134 | 97.4 | 91.4 | 79.1 | 78.8 | 100.7 | 128 |
| PDCL | 335.2 | 446.3 | 161.8 | 137.3 | 112.8 | 125.2 | 302.1 | 390.1 |
| PDCL2 | 82.7 | 102.9 | 94.5 | 84.8 | 89.1 | 83.9 | 91.2 | 95.6 |
| PDCL3 | 1286.8 | 1855.1 | 559.4 | 596.5 | 424.5 | 662.1 | 1069.3 | 1149.9 |
| PDDC1 | 145.4 | 183 | 144.5 | 130.3 | 114.5 | 120 | 126.6 | 154 |
| PDDC1 | 411.3 | 379.6 | 276.5 | 230.8 | 209.2 | 263.1 | 222.7 | 325.2 |
| PDE10A | 79.3 | 83.2 | 98.3 | 79.9 | 78.1 | 85 | 84.4 | 95.4 |
| PDE11A | 78.6 | 89.9 | 88.8 | 86.2 | 76.7 | 80.7 | 85.1 | 85.5 |
| PDE11A | 79.6 | 92.9 | 103.2 | 102.6 | 93.4 | 104.1 | 83.5 | 77.8 |
| PDE11A | 88.9 | 97.6 | 114.1 | 101 | 98.6 | 98 | 85.4 | 93.3 |
| PDE1A | 89 | 92.3 | 97.3 | 93 | 86.1 | 90.9 | 90.8 | 88 |
| PDE1A | 80.4 | 83.1 | 100.6 | 94.5 | 96 | 93.4 | 79.5 | 88.6 |
| PDE1A | 97.7 | 102.2 | 99.5 | 87.8 | 97.4 | 103.6 | 87.6 | 105.3 |
| PDE1B | 124.6 | 134.2 | 125.2 | 160.9 | 150.3 | 224.4 | 112.3 | 164.5 |
| PDE1C | 82.2 | 88.6 | 91.4 | 91.3 | 84.3 | 88.1 | 84.4 | 91 |
| PDE2A | 84.7 | 101.2 | 88.7 | 97 | 84.5 | 92.9 | 90.3 | 85.6 |
| PDE3A | 105.5 | 120.6 | 89.2 | 84.3 | 90 | 85 | 108.2 | 111.7 |
| PDE3B | 466 | 597 | 385.1 | 542.9 | 440.4 | 896.9 | 522.2 | 808 |
| PDE4A | 127.3 | 145.4 | 86.4 | 92 | 85.3 | 90.9 | 120.7 | 160.1 |
| PDE4B | 106.7 | 113.9 | 114.9 | 216.6 | 134.6 | 281.2 | 97.2 | 110 |
| PDE4B | 84 | 98.2 | 86.9 | 90.7 | 91.8 | 104.6 | 89.5 | 87.6 |
| PDE4B | 77.4 | 94.3 | 92.6 | 93.2 | 86.9 | 88.9 | 77.4 | 93.8 |
| PDE4B | 93.5 | 137.7 | 86.9 | 83.3 | 80.8 | 89.5 | 93 | 101.4 |
| PDE4C | 79.6 | 89.1 | 93.6 | 87.5 | 87.1 | 96.8 | 83.5 | 97.2 |
| PDE4D | 151.5 | 196.4 | 130.8 | 129.2 | 109.3 | 177.4 | 159.3 | 215.3 |
| PDE4DIP | 92.5 | 94.9 | 104.8 | 95.9 | 94.6 | 87.9 | 79.2 | 97.4 |
| PDE4DIP | 160 | 169.3 | 78.7 | 85.4 | 83.6 | 83.4 | 150.4 | 159.2 |
| PDE4DIP | 79.1 | 85.8 | 86.7 | 82.6 | 81.1 | 79.2 | 76.8 | 82.6 |
| PDE5A | 85.8 | 84.7 | 103.8 | 87.8 | 93.9 | 88.7 | 80.3 | 90.3 |
| PDE5A | 91.1 | 122.6 | 107.3 | 99.8 | 91.8 | 93.3 | 97 | 106.1 |
| PDE5A | 80.9 | 102.6 | 84.7 | 90.1 | 94.4 | 81.9 | 87.3 | 93 |
| PDE5A | 72.3 | 83 | 87.8 | 76.8 | 75.8 | 78.7 | 82.2 | 91.1 |
| PDE5A | 77.4 | 93.2 | 96.1 | 90 | 82.7 | 82.8 | 84.7 | 85.5 |
| PDE6A | 107.4 | 127.2 | 99.6 | 86 | 77.8 | 83.9 | 111.3 | 118.8 |
| PDE6B | 86.4 | 85.6 | 81.6 | 92.5 | 70.4 | 78.1 | 86.4 | 89.3 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PDE6C | 84.5 | 99.4 | 91.6 | 82.5 | 67.6 | 78.5 | 86.6 | 105.5 |
| PDE6D | 613.1 | 968 | 267.4 | 198.6 | 173.2 | 227.7 | 627.1 | 766.6 |
| PDE6G | 124.2 | 141.9 | 108.6 | 106.7 | 98.4 | 105.7 | 117.5 | 125.6 |
| PDE6H | 174.1 | 183.2 | 104 | 100.7 | 92.9 | 90.9 | 171.5 | 174.9 |
| PDE7A | 622.9 | 884.5 | 310.3 | 253.8 | 246 | 384.9 | 486.6 | 683.9 |
| PDE7A | 425.4 | 497.7 | 287.2 | 590.7 | 700.8 | 706.8 | 363.9 | 439.9 |
| PDE7A | 100.5 | 109 | 108.2 | 104.5 | 89 | 104.9 | 95.5 | 117.6 |
| PDE7B | 409.4 | 588.4 | 267.5 | 207.7 | 172.4 | 177.8 | 301 | 249.8 |
| PDE8A | 306 | 372.8 | 167.6 | 153.8 | 135 | 163.4 | 312 | 380.7 |
| PDE8A | 107.6 | 116.3 | 102.4 | 95.2 | 95.3 | 108.3 | 101.8 | 110.8 |
| PDE8A | 97.9 | 112.4 | 91.3 | 90.2 | 83.7 | 92.7 | 100.6 | 106.8 |
| PDE8B | 120.5 | 133.1 | 110.5 | 95 | 91.9 | 103.6 | 101.5 | 113.5 |
| PDE8B | 82.5 | 92.6 | 93.9 | 92.5 | 92.3 | 78.6 | 78.4 | 82.1 |
| PDE9A | 91 | 98 | 107 | 99.2 | 95.5 | 91.5 | 91.9 | 105.8 |
| PDE9A | 135.1 | 164.3 | 115.2 | 116.1 | 131.1 | 120.1 | 122.7 | 138.3 |
| PDE9A | 128.2 | 148.3 | 90 | 105.7 | 85.6 | 92.3 | 113.8 | 134.2 |
| PDE9A | 91.1 | 105.7 | 89 | 91.8 | 88 | 87.9 | 84.4 | 101.1 |
| PDF | 82.4 | 83.4 | 99.8 | 94.6 | 93.4 | 86.4 | 87.9 | 101.1 |
| PDGFA | 155.8 | 142.4 | 90.5 | 78.6 | 80.3 | 81.9 | 120 | 137.2 |
| PDGFA | 112 | 106.4 | 93.9 | 91.9 | 82.9 | 90.5 | 109 | 114.8 |
| PDGFB | 99.6 | 115.9 | 94.3 | 89 | 87.3 | 87.9 | 94.3 | 106.7 |
| PDGFB | 95.9 | 103.7 | 93.5 | 94 | 89.2 | 90.5 | 97.6 | 109.2 |
| PDGFB | 117.4 | 128 | 101.8 | 108.9 | 102.2 | 107 | 108.6 | 119.5 |
| PDGFC | 183.3 | 237.1 | 117.5 | 114.3 | 90.9 | 125.3 | 164.8 | 236.6 |
| PDGFD | 130.9 | 158.6 | 106.8 | 134.9 | 121.5 | 189.2 | 111.3 | 129.5 |
| PDGFD | 166.5 | 210.9 | 125.2 | 138.5 | 111.1 | 164.5 | 120.9 | 163.3 |
| PDGFRA | 235.2 | 286.9 | 160.9 | 161.7 | 151.5 | 159.9 | 245.4 | 289.3 |
| PDGFRB | 120.8 | 147.2 | 103.4 | 115.7 | 111 | 137.2 | 113.2 | 129.3 |
| PDGFRL | 132.4 | 159.6 | 127.9 | 108.6 | 113.6 | 108.3 | 144 | 133.8 |
| PDHA1 | 1284.2 | 1700.8 | 465.7 | 516.1 | 435.6 | 514 | 1145.1 | 1390.8 |
| PDHA2 | 81.9 | 82.5 | 88.6 | 83.3 | 81 | 87 | 90 | 88.3 |
| PDHB | 5371.5 | 6648.3 | 3850.7 | 4134.1 | 3308.4 | 4984.4 | 4283.9 | 5095.8 |
| PDHX | 991.9 | 1141.6 | 454.6 | 549.2 | 358.1 | 656.8 | 888.1 | 1746.6 |
| PDIA2 | 100.3 | 104.1 | 90.5 | 90.9 | 87.9 | 90.5 | 93 | 98.1 |
| PDIA3 | 112.8 | 129.5 | 99.7 | 85.8 | 85.8 | 90.3 | 101.8 | 126.1 |
| PDIA3P | 632.9 | 818.2 | 226.6 | 211 | 215.3 | 260.9 | 565.6 | 998.1 |
| PDIA4 | 188.2 | 204.7 | 127.2 | 132.9 | 108.4 | 158.6 | 161.8 | 282.5 |
| PDIA5 | 571.6 | 757.3 | 434 | 626 | 530.7 | 873.7 | 503.3 | 735.1 |
| PDIA6 | 2029.2 | 2857 | 1049.5 | 933.4 | 775.9 | 943.6 | 1940.2 | 2387.9 |
| PDIK1L | 242.8 | 301.5 | 201.1 | 204.2 | 158.1 | 265.7 | 228.7 | 371.1 |
| PDILT | 78.4 | 88.5 | 92 | 90.5 | 82.1 | 82.9 | 85.4 | 86.5 |
| PDK1 | 114.9 | 138 | 109.1 | 97.2 | 95.7 | 102 | 107.9 | 137.6 |
| PDK2 | 121.7 | 153.7 | 115.5 | 100.1 | 102.4 | 95.5 | 124.7 | 136.7 |
| PDK3 | 311.2 | 458.4 | 194 | 140.4 | 127.4 | 176 | 285.4 | 351.5 |
| PDK4 | 99 | 120.2 | 101.6 | 101.3 | 104.5 | 125.7 | 107 | 160 |
| PDLIM1 | 807.3 | 1215.3 | 685.1 | 266.2 | 212.3 | 248.4 | 829.4 | 1201 |
| PDLIM2 | 93.2 | 97.9 | 94.9 | 90.9 | 80.3 | 85 | 95.7 | 100.7 |
| PDLIM2 | 80.5 | 104.2 | 80 | 70.6 | 79 | 72.8 | 83.9 | 94.3 |
| PDLIM3 | 102 | 116.3 | 90.2 | 89.2 | 98.1 | 92.7 | 98 | 115.6 |
| PDLIM4 | 73.7 | 81.4 | 95.4 | 88 | 87.2 | 79.7 | 81.6 | 80 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| PDLIM5 | 194.8 | 237.2 | 133.5 | 110.5 | 113.1 | 113.5 | 142.6 | 172 |
| PDLIM5 | 128.2 | 150 | 110.3 | 88.4 | 94 | 97.5 | 98.1 | 131.9 |
| PDLIM5 | 149.9 | 182.1 | 103.5 | 94.1 | 87.6 | 88.1 | 121.8 | 139.8 |
| PDLIM7 | 151.9 | 201.5 | 159.2 | 130.7 | 113.8 | 136.6 | 123.5 | 163.7 |
| PDLIM7 | 517.3 | 576.3 | 253.5 | 245.5 | 208 | 230.4 | 447 | 584.9 |
| PDLIM7 | 313.4 | 405.1 | 265.1 | 190.2 | 151 | 166.2 | 321.2 | 411 |
| PDP2 | 152.9 | 157.7 | 128.6 | 107.4 | 105.6 | 95.4 | 160.3 | 200.8 |
| PDPK1 | 91.6 | 110.7 | 95.6 | 106 | 98.1 | 89.1 | 97.7 | 110.9 |
| PDPK1 | 694.4 | 853.8 | 275.6 | 293.6 | 301.9 | 234.5 | 536.8 | 961.9 |
| PDPK1 | 698.8 | 879.8 | 659.6 | 939.2 | 716.1 | 1219.5 | 772.9 | 1553.4 |
| PDPN | 160.2 | 205.7 | 154.2 | 89.7 | 94.9 | 98 | 140.3 | 146 |
| PDPN | 108.9 | 94.2 | 89.4 | 95 | 83.4 | 93.2 | 105.5 | 103.8 |
| PDPR | 219.2 | 315.6 | 189 | 221.4 | 222 | 247.8 | 213.4 | 285 |
| PDPR | 365.3 | 504.8 | 335.7 | 409.2 | 377.2 | 412.2 | 385.7 | 488 |
| PDPR | 121.9 | 152 | 98.5 | 86.5 | 82.3 | 86.2 | 108.6 | 124.6 |
| PDRG1 | 603.9 | 834.3 | 475 | 360.8 | 303 | 494.8 | 574.2 | 755.2 |
| PDSS1 | 1078 | 1411.9 | 533.9 | 400.4 | 297.2 | 454.5 | 763.6 | 1301.3 |
| PDSS2 | 1593.6 | 1872.5 | 723 | 875 | 824.4 | 935.6 | 1418.5 | 1622.5 |
| PDXK | 1171.5 | 1584.1 | 1328 | 2061.3 | 1665.8 | 2184 | 1207.5 | 1138.6 |
| PDXP | 2433.8 | 3370.3 | 1470.4 | 1164.2 | 980.7 | 1183.6 | 2194 | 1879.9 |
| PDYN | 151.5 | 172.6 | 98.7 | 95.7 | 86.9 | 85.2 | 155.1 | 160.9 |
| PDZD11 | 93.5 | 111.1 | 83.5 | 89 | 82.2 | 96.2 | 94 | 97 |
| PDZD3 | 115.4 | 140.8 | 87.2 | 84.1 | 84.8 | 89.9 | 107.1 | 124.4 |
| PDZD4 | 111.4 | 126.1 | 100.3 | 105.5 | 93.3 | 98.3 | 108.6 | 122.7 |
| PDZD7 | 129.5 | 146.3 | 163.3 | 112.6 | 109 | 125.5 | 126.3 | 179.2 |
| PDZD8 | 219.2 | 295.4 | 143 | 132.6 | 132.1 | 165.4 | 209.2 | 279 |
| PDZK1 | 90.3 | 99 | 98.3 | 86.1 | 90.5 | 80.4 | 89.1 | 92.5 |
| PDZK1IP1 | 81.7 | 99.1 | 84.2 | 81.8 | 81.6 | 81.8 | 84.4 | 90.2 |
| PDZK3 | 80.9 | 85.6 | 101.5 | 92.2 | 82.9 | 89.8 | 82.2 | 94.4 |
| PDZK3 | 90.5 | 92.3 | 85.4 | 83.3 | 80.9 | 88.1 | 92 | 96.1 |
| PDZK5B | 91.7 | 100.6 | 90.6 | 87.5 | 95.2 | 92.1 | 97.4 | 96.6 |
| PDZK5B | 105.2 | 119.5 | 89.8 | 87.5 | 87 | 84.6 | 94.6 | 106.2 |
| PDZK5B | 77.2 | 80.7 | 87.7 | 79.1 | 84.1 | 75.6 | 79.8 | 84.5 |
| PDZRN3 | 91.6 | 106.1 | 86.1 | 91 | 85.8 | 88.6 | 93 | 105.3 |
| PDZRN3 | 79 | 86.5 | 92.7 | 83.8 | 91.6 | 86.8 | 80.7 | 84.9 |
| PDZRN3 | 90.1 | 94.7 | 82.1 | 81.5 | 75.7 | 82.6 | 83.1 | 92.8 |
| PDZRN4 | 109.6 | 107.2 | 92.9 | 93.6 | 91.5 | 88.5 | 99.7 | 103.9 |
| PEA15 | 2717.1 | 3571.3 | 1983.8 | 1346.7 | 1195.6 | 1668.4 | 2553.2 | 2888.5 |
| PEAR1 | 95.4 | 105.8 | 108.5 | 102.3 | 88.5 | 103.4 | 93.2 | 104.8 |
| PEBP1 | 1902.9 | 2065.5 | 674.4 | 612.5 | 441.6 | 723.7 | 1733 | 4309.7 |
| PEBP4 | 114.5 | 120.9 | 90.4 | 86.8 | 82.6 | 91.5 | 110.2 | 116.9 |
| PECAM1 | 1074.8 | 1552.7 | 688.9 | 710.8 | 569.2 | 1223.5 | 754.8 | 1165.2 |
| PECI | 553.1 | 762.2 | 179.6 | 237.5 | 154.8 | 234.5 | 535.3 | 790.2 |
| PECI | 376.1 | 495.1 | 223.4 | 223.7 | 174.7 | 242.4 | 349.3 | 502.9 |
| PECR | 415.1 | 550.5 | 359.7 | 289.2 | 243.8 | 334.3 | 392.2 | 413.2 |
| PEF1 | 369.5 | 511.8 | 270.4 | 302.9 | 220.6 | 346.5 | 353.9 | 475.4 |
| PEG10 | 114.9 | 123 | 94.1 | 83 | 79.5 | 75 | 108.2 | 122.7 |
| PEG3 | 103.1 | 90 | 88.3 | 88.4 | 86.6 | 90.1 | 95.9 | 92.8 |
| PELI1 | 187.8 | 221.4 | 144.2 | 151.2 | 140.3 | 181.6 | 192 | 276.9 |
| PELI2 | 403.6 | 525.9 | 313.9 | 361.2 | 280.4 | 560 | 497.1 | 934.2 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| PELI3 | 98.1 | 105.9 | 99.2 | 111.9 | 98.9 | 126.1 | 105.1 | 117.2 |
| PELO | 1286.7 | 1641.2 | 980.8 | 777.3 | 633.3 | 936.1 | 1470.2 | 2243.9 |
| PELP1 | 307.3 | 344.9 | 256.1 | 179.4 | 157.1 | 219.7 | 276.8 | 474.2 |
| PEMT | 394.2 | 503.9 | 342.2 | 272.7 | 218.1 | 234.9 | 393 | 591.9 |
| PEMT | 100.9 | 112.4 | 90.1 | 85.4 | 89.3 | 84.6 | 115 | 108.4 |
| PEMT | 87 | 102.9 | 93.8 | 88.3 | 79.9 | 86.4 | 98.4 | 85.3 |
| PEMT | 165.9 | 180.2 | 110.4 | 98.5 | 97.3 | 88.5 | 137.2 | 157.2 |
| PENK | 1348.7 | 2101.1 | 786.1 | 436.1 | 393.2 | 490.7 | 1236.2 | 1153.4 |
| PEO1 | 263.8 | 343.6 | 235.5 | 181.7 | 133 | 197.1 | 206.5 | 293.9 |
| PEPD | 984.4 | 1332.3 | 718.5 | 653.9 | 493.6 | 857.8 | 867.4 | 1333.8 |
| PER1 | 107.5 | 133.1 | 86.4 | 75.4 | 81 | 89.3 | 97.6 | 113.9 |
| PER2 | 87.8 | 87.8 | 90.1 | 67.9 | 80 | 80.3 | 79 | 87.6 |
| PER2 | 1581.9 | 1937.2 | 1077.4 | 1136.4 | 740.4 | 956.3 | 1312.8 | 1682.5 |
| PERF15 | 87.4 | 88.8 | 101.4 | 91.4 | 96.8 | 93.3 | 86.6 | 93 |
| PERLD1 | 559.2 | 620.4 | 404.7 | 428.6 | 341.6 | 435.7 | 457.2 | 403 |
| PERP | 276.4 | 286.1 | 136.7 | 122.2 | 93.6 | 123.1 | 183.4 | 483.9 |
| PERQ1 | 108.2 | 136.1 | 128.2 | 132.8 | 125 | 118.2 | 111.3 | 131 |
| PES1 | 279.8 | 355.2 | 145.7 | 134.6 | 110.4 | 143.8 | 242.4 | 207.9 |
| PET112L | 531.2 | 700.6 | 285 | 194.6 | 212.7 | 249.9 | 450.3 | 425.2 |
| PEX1 | 162 | 210 | 145 | 156.1 | 125.1 | 221.6 | 127.2 | 210.4 |
| PEX10 | 114.1 | 152.4 | 90.1 | 78.8 | 81.8 | 87 | 102.2 | 140.7 |
| PEX10 | 86.2 | 101 | 88.4 | 90.3 | 97.4 | 82.8 | 85.5 | 87.6 |
| PEX11A | 188.2 | 248.6 | 104.5 | 96.4 | 95.8 | 95.2 | 173.7 | 232.3 |
| PEX11B | 1498.7 | 1905.9 | 975.5 | 635.6 | 646.3 | 884.9 | 1206.8 | 1705 |
| PEX11G | 143.6 | 173 | 106.9 | 78.8 | 87.5 | 99.9 | 123.5 | 134.2 |
| PEX12 | 101.5 | 122.7 | 98.4 | 84.6 | 79 | 87.8 | 102 | 114.1 |
| PEX13 | 90.2 | 96.1 | 90.5 | 79.5 | 73.7 | 83.6 | 91.4 | 100.7 |
| PEX14 | 179.1 | 202.6 | 181.9 | 167.4 | 128.9 | 181.6 | 201.7 | 468.4 |
| PEX16 | 1042.3 | 1409.7 | 511.4 | 496.3 | 434.7 | 491.8 | 998.4 | 976.4 |
| PEX16 | 146.3 | 156 | 125.1 | 109.4 | 99.5 | 115.7 | 135.7 | 174.9 |
| PEX16 | 884.1 | 1324.8 | 851.7 | 600.4 | 455.5 | 551.5 | 904 | 1207.7 |
| PEX19 | 680.8 | 873.4 | 498.9 | 646.9 | 475.8 | 758.8 | 625.1 | 881.8 |
| PEX26 | 110.6 | 126.2 | 100.8 | 107.8 | 102.5 | 110.7 | 106.2 | 120.1 |
| PEX3 | 87 | 97.4 | 94.5 | 103.2 | 92 | 113.6 | 90.4 | 105.2 |
| PEX5 | 670.6 | 890.8 | 493.7 | 589.8 | 459.1 | 636.5 | 560.3 | 717.9 |
| PEX5L | 88.5 | 120.4 | 93.2 | 92.9 | 92.3 | 86.9 | 92.1 | 121.8 |
| PEX6 | 192.8 | 257.8 | 160.2 | 144.6 | 141.4 | 202.6 | 197.7 | 244.1 |
| PEX7 | 547.5 | 768.3 | 353 | 425.4 | 317.9 | 424.8 | 519.5 | 767.7 |
| PF4 | 84 | 95.3 | 103.3 | 92.3 | 89.1 | 91.7 | 80.7 | 86.7 |
| PF4V1 | 104.3 | 122.3 | 99.8 | 99 | 89.1 | 96.7 | 109.1 | 110.1 |
| PFAAP5 | 345.3 | 435.5 | 260.6 | 294.4 | 289.5 | 374 | 265 | 303.2 |
| PFAS | 733.2 | 844.3 | 411.9 | 420.5 | 337.9 | 502.3 | 533.5 | 682.6 |
| PFC | 166.3 | 236.9 | 168.4 | 282.7 | 204.7 | 263.7 | 139.5 | 210.4 |
| PFDN1 | 1868.4 | 2470.1 | 1612.7 | 1352.6 | 1056.8 | 1666.4 | 1698.5 | 1908.3 |
| PFDN2 | 135.3 | 170.7 | 116.3 | 88.8 | 92.9 | 89.5 | 138.8 | 167.8 |
| PFDN4 | 131.6 | 162.9 | 114.3 | 112.2 | 111.6 | 130.1 | 142.8 | 170.1 |
| PFDN5 | 9171.6 | 10502 | 3185.3 | 3882.8 | 3578.9 | 4540 | 7785.4 | 10287 |
| PFDN5 | 7943 | 8933.9 | 2057.9 | 2509.2 | 1785.3 | 3395.3 | 6636.1 | 9266 |
| PFDN6 | 1204.1 | 1480 | 508 | 529.4 | 505.7 | 657.4 | 1372.1 | 1055.2 |
| PFKFB1 | 98.3 | 104.8 | 98 | 89.4 | 86.8 | 95.4 | 88.3 | 108.6 |

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|---------|---------|---------|--------|---------|---------|---------|---------|--------|
| PFKFB2 | 99.6 | 121.6 | 91.2 | 97.7 | 94.5 | 94.6 | 101.5 | 113.4 |
| PFKFB2 | 83.4 | 93.8 | 103.4 | 89.9 | 94.3 | 101 | 98.4 | 105.1 |
| PFKFB2 | 99.5 | 107.9 | 102.8 | 92 | 98.5 | 102.9 | 90.5 | 102.4 |
| PFKFB3 | 695.8 | 883.3 | 701 | 505.4 | 475.1 | 722.8 | 716.5 | 1213.2 |
| PFKFB4 | 399.5 | 472.8 | 437.3 | 586.2 | 689 | 696.4 | 321.7 | 349.3 |
| PFKL | 103.6 | 127.3 | 94.4 | 85 | 86.2 | 98.1 | 95.8 | 111.5 |
| PFKL | 535.3 | 749.4 | 622.4 | 700 | 623.6 | 846.7 | 483.5 | 1148.1 |
| PFKM | 154.8 | 174.1 | 109.2 | 126.4 | 128.5 | 140.3 | 139 | 138.8 |
| PFKP | 1379.5 | 1595.7 | 1198.8 | 518.4 | 420.2 | 766.9 | 1226.8 | 2062.5 |
| PFN1 | 24770.6 | 26397.8 | 21373 | 20190.1 | 15690.6 | 20187.2 | 23437.6 | 25363 |
| PFN2 | 82.6 | 85.9 | 95.9 | 92.8 | 85.1 | 99 | 87.9 | 87.4 |
| PFN2 | 102.8 | 118.3 | 100.7 | 105.2 | 93.8 | 105.2 | 91.2 | 121.3 |
| PFN3 | 122.6 | 137.3 | 82.3 | 73.2 | 86.3 | 93.7 | 119.2 | 137.3 |
| PFN4 | 144 | 148.2 | 115.4 | 121.3 | 117.9 | 113.1 | 124.1 | 147.3 |
| PFS2 | 3764.1 | 5473.1 | 1958.6 | 1100.5 | 929.5 | 1132 | 2815.4 | 2580.5 |
| PFTK1 | 141.9 | 177.1 | 151.2 | 160.1 | 124.9 | 198.1 | 132.6 | 203.7 |
| PGA3 | 82.8 | 90.5 | 93.5 | 99 | 93.1 | 92.6 | 89 | 98.6 |
| PGA4 | 91.5 | 105.1 | 88.8 | 94.1 | 87.7 | 92.5 | 113.1 | 103.6 |
| PGA5 | 111.5 | 124.3 | 105.7 | 125.9 | 109.3 | 116.6 | 107.7 | 114.3 |
| PGAM1 | 4333.4 | 6005.8 | 2738.2 | 1359.5 | 1122.5 | 1381.7 | 3380.3 | 4274.8 |
| PGAM2 | 100.8 | 119.5 | 102.8 | 92.3 | 81.3 | 88.9 | 93.5 | 116 |
| PGAM4 | 107.4 | 132 | 99.4 | 89.2 | 78.2 | 87.8 | 96.9 | 132.5 |
| PGAM5 | 82 | 94.1 | 102 | 94.4 | 96.5 | 84.4 | 77.2 | 93 |
| PGAP1 | 101.2 | 107.9 | 100.5 | 82.9 | 86.4 | 103.4 | 123.5 | 117.9 |
| PGBD1 | 148.4 | 180.2 | 130.3 | 117 | 120.5 | 137.3 | 147.3 | 167.6 |
| PGBD2 | 265.3 | 299 | 191.1 | 186.9 | 191.9 | 225.7 | 195 | 311.3 |
| PGBD2 | 142.6 | 149.3 | 101.5 | 103.2 | 106.6 | 102.4 | 109.8 | 133.9 |
| PGBD3 | 128.8 | 157 | 102.9 | 100 | 82.2 | 111 | 121 | 143.4 |
| PGBD4 | 144.5 | 166.1 | 100.9 | 108.8 | 100.1 | 124.1 | 119.5 | 125.5 |
| PGBD5 | 183.8 | 200.3 | 209.5 | 180.6 | 160.9 | 251.7 | 185.5 | 359.3 |
| PGC | 81.3 | 78.1 | 93.7 | 100.6 | 85.5 | 81.1 | 79.4 | 84.3 |
| PGCP | 1148.5 | 1539 | 713.1 | 629.1 | 488.9 | 867.7 | 1175.6 | 1408.2 |
| PGD | 2543.2 | 3597.7 | 1717.3 | 1405.7 | 1178.3 | 1800.2 | 4915 | 7517.4 |
| PGDS | 90.6 | 94.1 | 84.9 | 94.9 | 81.3 | 91.1 | 84 | 94.1 |
| PGEA1 | 395.7 | 568 | 329 | 303.2 | 263.9 | 358.8 | 359.4 | 450.8 |
| PGEA1 | 113.1 | 139.6 | 101.3 | 98.1 | 102.7 | 103.4 | 107.5 | 114.5 |
| PGF | 98.5 | 99.8 | 78.2 | 74.2 | 70.8 | 80.2 | 106.5 | 112 |
| PGGT1B | 396.2 | 455.3 | 250.5 | 260.6 | 240.5 | 297.7 | 293.6 | 394.5 |
| PGK1 | 2512.2 | 3513.8 | 1304.9 | 1483.3 | 972.8 | 1819.4 | 2238.5 | 3488.8 |
| PGK2 | 87.3 | 91.5 | 77.5 | 77.1 | 73.9 | 75.6 | 81.1 | 96.7 |
| PGLS | 2147.5 | 2710.8 | 1818.4 | 1354.6 | 1073.8 | 1536 | 1567.6 | 2873.1 |
| PGLYRP1 | 102.3 | 116.5 | 107.1 | 89.7 | 97 | 92.4 | 107.7 | 111.7 |
| PGLYRP2 | 93.9 | 100.7 | 89.9 | 88.9 | 82 | 88.4 | 91.5 | 99.6 |
| PGLYRP3 | 85 | 94.9 | 91.7 | 91.7 | 87.3 | 86.8 | 87.6 | 85.4 |
| PGLYRP4 | 137.9 | 166.6 | 106.3 | 107.3 | 99.5 | 116.8 | 133.1 | 151.2 |
| PGM1 | 1165.4 | 1595.7 | 1091.6 | 1362.6 | 1019.7 | 1584.8 | 888.9 | 1288.7 |
| PGM2 | 944.2 | 1035.2 | 620.6 | 498.9 | 384.7 | 696.9 | 655.6 | 962.4 |
| PGM2L1 | 101.6 | 114.8 | 97.5 | 98.4 | 91.6 | 111.1 | 115.2 | 137.2 |
| PGM3 | 305.3 | 386.6 | 193.5 | 179.4 | 135.8 | 201.5 | 251.7 | 398.7 |
| PGM5 | 74.1 | 73.9 | 99.2 | 94.3 | 82.2 | 89.7 | 76.4 | 83.5 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| PGM5 | 90.9 | 104.3 | 115.4 | 97.9 | 93.3 | 94.7 | 86.4 | 103 |
| PGM5 | 84.6 | 89.6 | 106.1 | 96.9 | 89.4 | 102.5 | 85.1 | 96 |
| PGM5P2 | 84.4 | 86.5 | 91.7 | 79.7 | 82.9 | 83.5 | 82.5 | 77.6 |
| PGM5P2 | 137.7 | 151.1 | 87.8 | 83.8 | 80 | 83.6 | 121.7 | 147.1 |
| PGPEP1 | 107.4 | 131.9 | 102.8 | 95.8 | 91.5 | 106.3 | 131.2 | 128.9 |
| PGR | 79.9 | 94.6 | 92.5 | 90.1 | 89.5 | 95.1 | 78.2 | 93.4 |
| PGRMC1 | 3714 | 4630.2 | 2177.5 | 1881.9 | 1392.7 | 2268.2 | 3171.1 | 4182.5 |
| PGRMC2 | 2744 | 3965.2 | 1855 | 1515.7 | 1205.3 | 1640.2 | 2483.2 | 3103.1 |
| PGS1 | 501.3 | 577.5 | 416.5 | 434.6 | 396.9 | 548.8 | 439.3 | 831.3 |
| PH-4 | 113.8 | 124.2 | 105.8 | 100.4 | 102.9 | 95.8 | 97 | 124 |
| PH-4 | 202.5 | 231.3 | 144.8 | 128.2 | 112.4 | 134.2 | 187.6 | 237.5 |
| PH-4 | 465 | 648.6 | 426 | 316.7 | 326.5 | 370.5 | 404.7 | 325.1 |
| PHACS | 225.9 | 227.8 | 234.4 | 254.8 | 273 | 379.5 | 162.8 | 170.3 |
| PHACTR1 | 209.7 | 282.1 | 147 | 258.9 | 257.4 | 248.4 | 187.8 | 195.6 |
| PHACTR2 | 760.1 | 1034.9 | 514.7 | 884.5 | 654.5 | 718.9 | 716 | 1051.5 |
| PHACTR3 | 94 | 100.4 | 78.6 | 83.7 | 84 | 79.6 | 91.3 | 96.5 |
| PHACTR3 | 4160.3 | 5194.8 | 2621.1 | 2513.5 | 1976 | 2902.1 | 3014.4 | 3271.9 |
| PHACTR3 | 879.8 | 1392.3 | 377.2 | 334.8 | 244.9 | 479.2 | 583.3 | 698.1 |
| PHACTR4 | 1348.8 | 1862.3 | 979.3 | 1189.3 | 1155.7 | 1396.6 | 1291.2 | 1522.3 |
| PHACTR4 | 103.5 | 125.4 | 90.1 | 79.2 | 86.8 | 94.7 | 118.2 | 117.9 |
| PHACTR4 | 74.4 | 95.6 | 83.2 | 88 | 85.2 | 84.3 | 76.1 | 94.2 |
| PHB | 1027.9 | 1471.8 | 675.9 | 735.1 | 512.5 | 861.4 | 800.2 | 838 |
| PHB2 | 1314.4 | 1595.5 | 472.4 | 326 | 307.8 | 438.4 | 1058.8 | 1636.3 |
| PHC1 | 110.5 | 132.8 | 123 | 107.7 | 108.8 | 125.7 | 117.8 | 118.4 |
| PHC2 | 88.8 | 114.1 | 86.8 | 87.1 | 87.8 | 88.9 | 100.6 | 113.1 |
| PHC2 | 149.9 | 195.9 | 142.7 | 140.4 | 128.8 | 132.9 | 143 | 176.6 |
| PHC2 | 77.1 | 94 | 93.5 | 105.5 | 88.4 | 101 | 77.3 | 91.2 |
| PHC3 | 187.8 | 235.4 | 133.6 | 163 | 149.4 | 198.5 | 162.7 | 230.9 |
| PHCA | 383.2 | 560 | 302.5 | 316.9 | 281.6 | 276.6 | 438.7 | 497.4 |
| PHEX | 106.3 | 122.3 | 102.9 | 91.5 | 82.8 | 75.8 | 108.8 | 111.9 |
| PHF1 | 97.3 | 118.2 | 96.8 | 91.5 | 85.1 | 120.7 | 102.3 | 125.3 |
| PHF1 | 134 | 168.8 | 130.4 | 128.2 | 134.7 | 159.7 | 137 | 227.7 |
| PHF1 | 192.6 | 248.6 | 199.2 | 170.6 | 171.4 | 276.3 | 231.1 | 378.2 |
| PHF10 | 2269.6 | 2802.7 | 1156.5 | 826.6 | 741.1 | 1115 | 1501.5 | 2711.6 |
| PHF11 | 1564.5 | 1984.1 | 866.9 | 647.3 | 498 | 769.9 | 1429 | 1643.7 |
| PHF11 | 1920.7 | 2484.6 | 1387.9 | 1011.1 | 886.2 | 1229.6 | 1807.8 | 2070.5 |
| PHF11 | 131.8 | 165.9 | 98.9 | 87.6 | 84.9 | 85.9 | 130.5 | 134.3 |
| PHF12 | 81.2 | 101.1 | 103.6 | 103.8 | 104.9 | 109.1 | 92.7 | 93.7 |
| PHF12 | 163.8 | 202.9 | 179.6 | 192.7 | 178.8 | 253.7 | 164.6 | 260.8 |
| PHF12 | 81.3 | 89.9 | 91.6 | 77 | 79.1 | 80.8 | 78.4 | 96.3 |
| PHF13 | 503.7 | 698.7 | 433 | 360.2 | 286.8 | 346.9 | 545.9 | 847 |
| PHF14 | 96.9 | 127.3 | 92.6 | 85.2 | 91.8 | 92.4 | 106.2 | 113.9 |
| PHF14 | 169.4 | 191 | 141.7 | 130.4 | 121 | 160.9 | 145.3 | 167.1 |
| PHF14 | 816.6 | 1096.3 | 295.8 | 257.3 | 223.6 | 435.4 | 595.8 | 862.5 |
| PHF15 | 318.7 | 418.5 | 468.4 | 347.8 | 354.7 | 373.9 | 345.6 | 377.9 |
| PHF16 | 371.1 | 492.2 | 262 | 298.8 | 258.1 | 390.1 | 362.7 | 463.4 |
| PHF16 | 108 | 123.1 | 93.2 | 80.8 | 80.7 | 89.9 | 106.1 | 140.3 |
| PHF17 | 130.3 | 192.6 | 126.8 | 121.7 | 106.2 | 125.9 | 127.9 | 148.5 |
| PHF17 | 508.5 | 667.9 | 526.1 | 374.6 | 307.7 | 447.8 | 433 | 479.2 |
| PHF17 | 232.8 | 263.3 | 140.4 | 126.6 | 113.3 | 140.1 | 181.1 | 238.5 |

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|----------|---------|---------|---------|--------|--------|--------|---------|---------|
| PHF19 | 520 | 560.9 | 327.3 | 233.1 | 226.8 | 313 | 389.5 | 465.4 |
| PHF19 | 380.3 | 421.9 | 293.6 | 223.8 | 198.5 | 209.5 | 385.6 | 347.4 |
| PHF19 | 302.2 | 405.8 | 265.5 | 171.6 | 147.4 | 164.8 | 288 | 522.2 |
| PHF2 | 109.5 | 133.8 | 97.4 | 84.7 | 91.1 | 83.6 | 104.1 | 128.3 |
| PHF2 | 318.1 | 446.1 | 328.7 | 299.3 | 259 | 441.1 | 322.5 | 501.4 |
| PHF20 | 220.2 | 327.8 | 170.8 | 195.8 | 214.2 | 294.3 | 220.2 | 348.2 |
| PHF20L1 | 341.1 | 472.6 | 127.4 | 117.2 | 120.3 | 168.6 | 301.4 | 463.4 |
| PHF20L1 | 869 | 1169.6 | 769.3 | 808.6 | 688.5 | 1678.1 | 693.7 | 1485.3 |
| PHF20L1 | 119.8 | 129.5 | 108.2 | 120 | 98.3 | 107.3 | 100 | 128.3 |
| PHF20L1 | 99.5 | 117.1 | 94.8 | 103.9 | 91.7 | 104.2 | 108.4 | 120.4 |
| PHF20L1 | 344.9 | 494.3 | 206.6 | 217.2 | 185.1 | 245.3 | 346.4 | 495.7 |
| PHF21A | 1095.8 | 1563.3 | 856 | 1013.4 | 962.4 | 1216.8 | 990.6 | 1192.4 |
| PHF21B | 106.5 | 119.4 | 92.8 | 93.4 | 102.3 | 92.1 | 100 | 105.7 |
| PHF22 | 1410.3 | 1643 | 977 | 816.1 | 684.1 | 1134.5 | 1105.7 | 1619.3 |
| PHF23 | 276.1 | 343.7 | 133.3 | 155.9 | 111.1 | 131.3 | 250.8 | 330.1 |
| PHF3 | 153.3 | 206.6 | 117.6 | 116.7 | 117.1 | 160.2 | 159.6 | 208.8 |
| PHF5A | 3654.2 | 4859.2 | 2174.2 | 1516.1 | 1244.7 | 1590.2 | 3250 | 3597.2 |
| PHF6 | 124.2 | 136 | 107.1 | 87.2 | 87.5 | 91.5 | 112.6 | 119.9 |
| PHF6 | 66.5 | 86 | 93.6 | 82.6 | 83.5 | 80.7 | 68.6 | 79.3 |
| PHF7 | 193 | 217.2 | 137.3 | 141.1 | 173.4 | 240.5 | 144 | 149.8 |
| PHF7 | 83.2 | 85.2 | 98.6 | 94.4 | 91.6 | 108.9 | 83.7 | 89 |
| PHF7 | 113.2 | 126.7 | 113.6 | 110.1 | 104.6 | 115.6 | 102.9 | 109.9 |
| PHF8 | 102.1 | 101.9 | 94.8 | 80.7 | 79.8 | 91.1 | 94.2 | 97.9 |
| PHGDH | 12489.7 | 17242.2 | 11269.3 | 3597 | 2950.8 | 3439.4 | 14014.2 | 13524.2 |
| PHGDHL1 | 1366.3 | 1836.5 | 538.2 | 625.9 | 568.8 | 568.2 | 1309.7 | 1216.7 |
| PHIP | 2384.6 | 3039.5 | 883.3 | 1169.5 | 1080.1 | 2522 | 2011.8 | 2548.5 |
| PHKA1 | 140.5 | 169.1 | 145.4 | 150.1 | 129.2 | 155.8 | 124.4 | 126.8 |
| PHKA2 | 324.3 | 359.2 | 339.5 | 470.6 | 521.5 | 585.8 | 237.4 | 359.6 |
| PHKB | 247.4 | 315 | 230.7 | 264 | 207.2 | 331 | 272.6 | 485.4 |
| PHKB | 169.2 | 236.3 | 102.7 | 92 | 91.8 | 107.1 | 142.4 | 184.1 |
| PHKB | 663.4 | 885.2 | 585.4 | 623.9 | 472.7 | 889.1 | 626.9 | 910.4 |
| PHKG1 | 99 | 115.9 | 106.9 | 109.5 | 93.3 | 111.1 | 99.4 | 122.7 |
| PHKG2 | 270.4 | 349.7 | 144.5 | 117.2 | 123.3 | 142.2 | 220.6 | 265.5 |
| PHLDA1 | 102.4 | 117.5 | 128.1 | 105.3 | 96.3 | 114.9 | 128.3 | 179.2 |
| PHLDA2 | 133.2 | 159.3 | 112 | 94.1 | 95.8 | 98.3 | 136.1 | 154.8 |
| PHLDA3 | 107.5 | 133.4 | 91.2 | 92.5 | 84 | 85.7 | 124.2 | 144.1 |
| PHLDB1 | 311.4 | 385.9 | 300.7 | 191.2 | 209 | 195.4 | 311.6 | 288 |
| PHLDB2 | 80.5 | 98.8 | 90.8 | 76.4 | 78.5 | 86.1 | 84.3 | 90.8 |
| PHLDB3 | 113.7 | 129.8 | 85.7 | 87.8 | 80.5 | 82.3 | 111.1 | 142.6 |
| PHLPP | 206.4 | 290.8 | 188.1 | 229.8 | 197.6 | 327.8 | 185.4 | 240.8 |
| PHLPPL | 114.8 | 138.5 | 124.8 | 108.9 | 98.2 | 119.4 | 115.6 | 193.1 |
| PHOSPHO1 | 86.7 | 100.1 | 92 | 85.7 | 81.8 | 89.8 | 85.1 | 83.6 |
| PHOSPHO2 | 74.5 | 73.5 | 88.2 | 84.1 | 76.7 | 85.6 | 71.7 | 79.1 |
| PHOX2A | 77.2 | 84.7 | 90.1 | 95.7 | 91.5 | 92.2 | 87.2 | 89.2 |
| PHOX2B | 97.6 | 114.7 | 93.3 | 80.8 | 73.7 | 82.6 | 99.3 | 103 |
| PHPT1 | 4194.8 | 4963 | 1911.6 | 1747.2 | 1420.3 | 1928.7 | 3819.7 | 4828.6 |
| PHTF1 | 665.9 | 787.7 | 427 | 292 | 233.1 | 402.9 | 753.2 | 1595.4 |
| PHTF2 | 141.8 | 131.1 | 103.2 | 96 | 90.6 | 102.5 | 120 | 142.7 |
| PHYH | 194.2 | 279.9 | 143.7 | 118.8 | 128.1 | 155.6 | 194.3 | 231.4 |
| PHYH | 709.6 | 1007.1 | 381.1 | 261.2 | 278.1 | 315.1 | 611.3 | 688.2 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| PHYH | 1736 | 2404.7 | 743.9 | 605 | 481.5 | 650.6 | 1416.5 | 2045.4 |
| PHYH2 | 1734.6 | 2238.4 | 1055.4 | 1362.4 | 1005.9 | 1438 | 1463 | 1674 |
| PHYHD1 | 82.5 | 84.2 | 84.8 | 80 | 77.6 | 84.1 | 77.8 | 97.2 |
| PHYHIP | 123.4 | 150.1 | 119.2 | 121.3 | 96.7 | 109.2 | 106.7 | 120.9 |
| PHYHIPL | 89.5 | 104.6 | 97.9 | 82.8 | 73.6 | 83.8 | 95.2 | 92.3 |
| PI15 | 227.1 | 235.8 | 136.9 | 117.3 | 91.5 | 143.6 | 201.4 | 224.1 |
| PI16 | 95.8 | 110.2 | 99.5 | 95.6 | 80.6 | 89.1 | 89 | 94.2 |
| PI3 | 94.6 | 112.9 | 94.4 | 85.5 | 86.1 | 86.8 | 99 | 94.4 |
| PI4K2B | 123.7 | 118.3 | 121.7 | 112.1 | 98.1 | 119.6 | 114.4 | 185.7 |
| PI4KII | 140.9 | 154.7 | 130.2 | 111.6 | 99.8 | 128.9 | 125.1 | 152.9 |
| PIAS1 | 1169.6 | 1643.5 | 540 | 693.7 | 557.2 | 913.8 | 938.4 | 1351.7 |
| PIAS2 | 77.1 | 74.1 | 80.3 | 79.8 | 76.3 | 77.7 | 75.9 | 80.3 |
| PIAS2 | 572.6 | 776.2 | 372.2 | 317.4 | 239.8 | 359.3 | 468.3 | 752.8 |
| PIAS2 | 206.2 | 252.1 | 144.6 | 106.8 | 104.7 | 116.1 | 168.8 | 273.2 |
| PIAS3 | 138.2 | 161.4 | 129 | 115.2 | 125.4 | 122.7 | 123.5 | 211 |
| PIAS4 | 1017.9 | 1368.4 | 685.5 | 661.1 | 615.6 | 637.7 | 1106.6 | 965.4 |
| PIB5PA | 193.4 | 181.3 | 133.7 | 96.3 | 97.2 | 99.8 | 173.9 | 171.8 |
| PIB5PA | 114.6 | 152.2 | 90.1 | 79.5 | 78.8 | 82.2 | 105.4 | 114.1 |
| PICALM | 144.3 | 154.6 | 93.6 | 96.2 | 81.3 | 91 | 117.6 | 168 |
| PICALM | 833 | 1110.4 | 366.6 | 375.9 | 318.6 | 671.9 | 712.7 | 1223.5 |
| PICK1 | 230.2 | 257.6 | 159.3 | 156.3 | 158.9 | 178.3 | 211.6 | 249.6 |
| PIF1 | 185.4 | 185.8 | 145.9 | 122.2 | 134.9 | 148.7 | 142.8 | 162 |
| PIG38 | 122.6 | 147.5 | 89.1 | 74.1 | 74.7 | 82.7 | 116.6 | 126.2 |
| PIGA | 867.9 | 1036.7 | 546.4 | 751.5 | 536.4 | 890.6 | 798.9 | 1321.1 |
| PIGA | 122.3 | 159.9 | 87.3 | 86.3 | 77.2 | 84.4 | 112.4 | 153.2 |
| PIGA | 197.2 | 226.4 | 125.7 | 113 | 113.1 | 130.7 | 161.5 | 221.6 |
| PIGB | 1333.9 | 1802.8 | 746.4 | 852.2 | 641.4 | 1131.8 | 900.7 | 1380.9 |
| PIGC | 1332.5 | 1789.9 | 948.3 | 808.7 | 657.9 | 1061.3 | 964.2 | 1625.7 |
| PIGC | 459.1 | 650.4 | 293.7 | 231.7 | 206.9 | 282.2 | 360 | 410.1 |
| PIGF | 1045.8 | 1473.5 | 649.3 | 690.5 | 471.3 | 711.5 | 812.3 | 1529.6 |
| PIGF | 158.7 | 192.9 | 101.5 | 115.7 | 100.7 | 137.4 | 139.6 | 173.1 |
| PIGG | 281.3 | 390.2 | 194.2 | 141.7 | 132.3 | 197.4 | 256.8 | 352.8 |
| PIGH | 385.2 | 507.4 | 188 | 154.9 | 133.6 | 207.1 | 396.9 | 641.6 |
| PIGK | 832.8 | 1166.4 | 392.9 | 372.2 | 270.8 | 445.8 | 675.9 | 1130.7 |
| PIGL | 114.5 | 127.3 | 109.2 | 99.3 | 94 | 95.1 | 111.9 | 126.1 |
| PIGM | 639.3 | 839.3 | 196.7 | 206 | 204.6 | 304.4 | 447.3 | 652.4 |
| PIGN | 139.1 | 139 | 92.7 | 93 | 85 | 77.5 | 106.7 | 119.3 |
| PIGN | 490.5 | 690.7 | 397.5 | 446.3 | 378 | 570.4 | 438.1 | 490.6 |
| PIGN | 478.2 | 707.7 | 485.7 | 700.2 | 539.3 | 980.5 | 422.4 | 644 |
| PIGO | 182.8 | 221 | 142.9 | 108.3 | 93.9 | 113.3 | 158 | 253.1 |
| PIGO | 287 | 350.9 | 249.3 | 183.1 | 163.5 | 200.9 | 252 | 369.9 |
| PIGO | 98.7 | 115.9 | 127.5 | 112 | 98.4 | 106.5 | 103.3 | 111.8 |
| PIGQ | 637.1 | 740.4 | 369 | 239.9 | 215.3 | 268.5 | 372.3 | 274.2 |
| PIGR | 82 | 89.8 | 99.1 | 96.3 | 88.2 | 89 | 77.1 | 82.3 |
| PIGS | 610.3 | 801.4 | 526 | 714 | 572.4 | 818.8 | 619.6 | 1068 |
| PIGT | 1247.4 | 1718.4 | 886.4 | 801.9 | 688.6 | 866.8 | 1038.1 | 2363.5 |
| PIGV | 382.2 | 464.4 | 199.1 | 255.1 | 207.4 | 276.7 | 263.9 | 412.6 |
| PIGW | 106.7 | 105.3 | 81.9 | 90.5 | 81.2 | 85.2 | 106.7 | 107.6 |
| PIGX | 225.6 | 271.2 | 109.8 | 128.8 | 109.8 | 117.5 | 212.3 | 285 |
| PIGY | 4806.1 | 6246.5 | 2675.1 | 2518.6 | 1511.4 | 2693 | 3839.5 | 6604.5 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| PIGZ | 132.6 | 148.1 | 135.3 | 189.9 | 183 | 236.4 | 119.2 | 149.1 |
| PIK3AP1 | 362.8 | 412.9 | 157.2 | 130.5 | 146.3 | 152.6 | 427.5 | 648.7 |
| PIK3C2A | 158 | 214 | 116.1 | 137.9 | 118.2 | 158 | 145.9 | 201.9 |
| PIK3C2B | 110.5 | 150 | 106.6 | 103.5 | 100.2 | 114 | 124.7 | 131.2 |
| PIK3C2G | 75.7 | 89.1 | 85.6 | 89.5 | 85.9 | 91.5 | 84.6 | 69.9 |
| PIK3C3 | 254.8 | 275.3 | 122.9 | 110.1 | 102.2 | 142.6 | 229 | 324.5 |
| PIK3CA | 146.6 | 160.8 | 103.8 | 104.3 | 92.7 | 111.8 | 127.6 | 199.7 |
| PIK3CB | 527.2 | 685.1 | 242.8 | 201.5 | 178.2 | 367.2 | 423 | 609.3 |
| PIK3CD | 492.6 | 689 | 488.5 | 404.8 | 394.1 | 523.4 | 355.8 | 443 |
| PIK3CG | 496.4 | 629.8 | 263.2 | 328.4 | 236.1 | 322.5 | 377.3 | 606.9 |
| PIK3R1 | 846.4 | 1063.6 | 348.8 | 670.4 | 558.3 | 674.4 | 694.8 | 1090 |
| PIK3R1 | 73 | 82.8 | 83.1 | 81.5 | 78.4 | 74.2 | 75.5 | 76 |
| PIK3R1 | 129.2 | 150.8 | 97 | 91.4 | 83.9 | 95.6 | 119.3 | 158.9 |
| PIK3R1 | 101.7 | 112.1 | 103 | 83.9 | 93.4 | 92.2 | 106.5 | 116.9 |
| PIK3R1 | 114.9 | 147.3 | 111.6 | 102.1 | 109.5 | 126.4 | 116.4 | 161.8 |
| PIK3R2 | 1640.3 | 2114.6 | 1306.6 | 1625.3 | 1273.8 | 1372.5 | 1080.2 | 923.9 |
| PIK3R3 | 124.1 | 146.4 | 94.1 | 89.6 | 91.2 | 98.4 | 126.6 | 145.2 |
| PIK3R4 | 201.5 | 254.2 | 144.6 | 187.5 | 153.8 | 270.4 | 200.9 | 255.6 |
| PIK3R5 | 116.2 | 133.7 | 103.3 | 99.6 | 87.2 | 94.8 | 118.1 | 137.2 |
| PIK4CA | 1872.7 | 2113.6 | 1151.5 | 1541.9 | 1327.9 | 1640.8 | 1427.5 | 1560.6 |
| PIK4CB | 477.2 | 550.7 | 613.8 | 477 | 391.9 | 498.5 | 396.2 | 619 |
| PILRA | 143.9 | 152.9 | 121.6 | 168.4 | 156.1 | 153.6 | 153.4 | 203.3 |
| PILRA | 123.9 | 152.7 | 101.5 | 98.7 | 84.6 | 95 | 115.5 | 128.8 |
| PILRA | 115.7 | 118.1 | 122.4 | 119.6 | 114.7 | 129.7 | 114.3 | 115.8 |
| PILRB | 107.1 | 93.8 | 107.5 | 104.6 | 103.2 | 98 | 92.3 | 105.1 |
| PILRB | 434.7 | 391.5 | 403.5 | 462.8 | 437.7 | 609.2 | 313.5 | 541.3 |
| PILRB | 82.7 | 97.7 | 84.5 | 79.6 | 81.5 | 80 | 86.7 | 94.5 |
| PILRB | 105 | 117.3 | 95 | 122 | 128.7 | 91.4 | 102.2 | 118.2 |
| PIM1 | 213.7 | 289.7 | 202 | 197.8 | 188 | 190.6 | 286.1 | 633.4 |
| PIM2 | 624.2 | 936.4 | 506.2 | 490.2 | 371.4 | 402.1 | 492.5 | 677 |
| PIM3 | 199.6 | 271 | 198.1 | 167.1 | 150.4 | 187.3 | 212.1 | 429.6 |
| PIM3 | 117.6 | 115.1 | 93.7 | 92.2 | 87 | 84.3 | 105.9 | 132.8 |
| PIN1 | 3934.5 | 4614.2 | 2559.3 | 1993.4 | 1623.5 | 2218 | 3401.4 | 3590.8 |
| PINK1 | 233.9 | 295.5 | 144.4 | 106.1 | 114.6 | 126.4 | 245.6 | 357.3 |
| PINX1 | 272.7 | 352.7 | 224.9 | 183.2 | 146.9 | 193.4 | 252.7 | 319.7 |
| PIP | 82.9 | 98.1 | 90 | 101.6 | 88.8 | 78.6 | 86.2 | 89.7 |
| PIP3-E | 471.4 | 671.5 | 247.5 | 275.4 | 211.7 | 311.6 | 601.2 | 821.3 |
| PIP5K1A | 135.7 | 176.6 | 110 | 100.9 | 97.8 | 93.9 | 133 | 151.9 |
| PIP5K1B | 110.6 | 110.9 | 92.2 | 95.6 | 87.1 | 95.6 | 101.9 | 96.6 |
| PIP5K1C | 265.3 | 369.9 | 428 | 350.3 | 298 | 439.1 | 286.3 | 581.7 |
| PIP5K2A | 139.4 | 163.1 | 140.1 | 132.6 | 117.2 | 133.1 | 135.5 | 218.1 |
| PIP5K2B | 204.4 | 252.3 | 166.5 | 285 | 245.6 | 148.8 | 167.6 | 221.6 |
| PIP5K2B | 172.8 | 244.5 | 112.4 | 96.6 | 96.8 | 101.3 | 160.2 | 207.3 |
| PIP5K2C | 177.1 | 225.7 | 120.9 | 113.1 | 99 | 117.9 | 169 | 212.5 |
| PIP5K3 | 91.7 | 101.7 | 103.8 | 102.5 | 106.1 | 97.2 | 105.1 | 100.8 |
| PIP5K3 | 81.6 | 107.6 | 95.6 | 91.7 | 87.9 | 102.2 | 82.4 | 98.5 |
| PIP5K3 | 103.8 | 112.7 | 97.5 | 110.9 | 99.4 | 95.7 | 110.8 | 104.4 |
| PIP5KL1 | 101.4 | 114.8 | 128.9 | 121.2 | 118.1 | 124.1 | 104.1 | 109.9 |
| PIPOX | 145.1 | 185.5 | 130.7 | 121.9 | 112.8 | 126.8 | 139.8 | 196.1 |
| PIR | 350.9 | 493.5 | 161.6 | 153.6 | 142.9 | 251.8 | 748.6 | 976.6 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| PIR | 473.7 | 536.2 | 201.8 | 187.2 | 152 | 266.7 | 1019 | 1881.8 |
| PISD | 489.3 | 640.6 | 351.2 | 340.9 | 299.5 | 519 | 363.2 | 621.7 |
| PITPNA | 201.6 | 260.5 | 136.6 | 126.9 | 125.9 | 148.9 | 223.1 | 230.8 |
| PITPNB | 451.7 | 639.7 | 412.7 | 357.1 | 313.1 | 515 | 401.9 | 651.3 |
| PITPNC1 | 203.9 | 282.5 | 216.7 | 198.5 | 152.2 | 267.1 | 225.8 | 383.9 |
| PITPNC1 | 118.3 | 140.8 | 87.8 | 88.9 | 75.2 | 91.4 | 115.1 | 146.6 |
| PITPNM1 | 285.7 | 346.7 | 561.7 | 524.8 | 440.2 | 835.6 | 258.3 | 481.9 |
| PITPNM2 | 163 | 211.6 | 155.6 | 140.6 | 138.9 | 148.5 | 129.6 | 147.4 |
| PITPNM3 | 79.8 | 79.4 | 85.1 | 81.5 | 79.6 | 82.5 | 77.5 | 84.4 |
| PITRM1 | 327 | 415.7 | 262.1 | 243.3 | 201 | 355.3 | 266.9 | 352.9 |
| PITX1 | 1539.7 | 1965.3 | 1290 | 543.2 | 419.1 | 467.2 | 1188.8 | 1496.1 |
| PITX2 | 109.1 | 112.2 | 105.1 | 106.5 | 92.9 | 100.4 | 106.4 | 116.6 |
| PITX2 | 171.7 | 229.4 | 125.4 | 97 | 94.9 | 115.5 | 172.9 | 187.9 |
| PITX2 | 71.3 | 84 | 97.2 | 96.2 | 88 | 91.2 | 86.4 | 86.3 |
| PITX3 | 96.1 | 117.2 | 87.5 | 86.7 | 76.8 | 81.9 | 99.3 | 102.5 |
| PIWIL1 | 96.6 | 109.3 | 102.9 | 86.7 | 92.6 | 82.6 | 88 | 107.3 |
| PIWIL2 | 74.5 | 89.4 | 94.1 | 85 | 81.1 | 81.4 | 83.1 | 96.9 |
| PIWIL2 | 86 | 89 | 109.1 | 96.4 | 91.8 | 85.9 | 83.2 | 83.4 |
| PIWIL3 | 96.3 | 108.3 | 85.3 | 89.3 | 87.2 | 81 | 109 | 111.2 |
| PIWIL4 | 499.9 | 604.1 | 240.8 | 214.7 | 194.2 | 257.1 | 368.9 | 556.9 |
| PJA1 | 92.7 | 124.8 | 106.6 | 98.8 | 102.7 | 98 | 91.8 | 112.2 |
| PJA1 | 242.1 | 406.9 | 216.9 | 217.2 | 188.6 | 266 | 209.4 | 295.1 |
| PJA1 | 95.4 | 111.5 | 93.2 | 82.7 | 73.8 | 84.8 | 105.6 | 107.8 |
| PJA2 | 2511.5 | 3204.9 | 1216.3 | 2008.8 | 1519.7 | 3224 | 2420.9 | 3877.3 |
| PJCG6 | 97.1 | 110.8 | 110.1 | 108.3 | 96 | 98.5 | 89.5 | 98.5 |
| PKD1 | 111.9 | 147.1 | 157.4 | 173.8 | 201.8 | 307.4 | 130.2 | 164.1 |
| PKD1 | 105.7 | 121.5 | 135.1 | 138.2 | 114.6 | 176.8 | 116.1 | 131.6 |
| PKD1L1 | 107.1 | 126.5 | 97.2 | 92 | 92.9 | 99.9 | 103.7 | 116.7 |
| PKD1L2 | 80.7 | 76.3 | 89.7 | 83.9 | 85.1 | 84.7 | 75.7 | 81.9 |
| PKD1L2 | 81.7 | 94.6 | 85.7 | 79.8 | 84.2 | 96 | 75.4 | 88.7 |
| PKD1L2 | 92.9 | 97.6 | 97.3 | 92.3 | 82.1 | 92.1 | 83.9 | 87 |
| PKD1L2 | 78.5 | 87.8 | 95.9 | 95.9 | 96.9 | 91.4 | 78.2 | 84.4 |
| PKD1L3 | 127.7 | 134.8 | 74.6 | 88.5 | 80.6 | 84.9 | 116.2 | 128.2 |
| PKD2 | 275.7 | 330.1 | 170.6 | 204.6 | 169.2 | 300.9 | 278.8 | 639.3 |
| PKD2L1 | 81.8 | 91.9 | 96.6 | 82.8 | 86.5 | 91.8 | 88.7 | 108.4 |
| PKD2L2 | 95.6 | 102.6 | 98 | 96.1 | 88.1 | 101 | 96.2 | 90.6 |
| PKDREJ | 104 | 104.3 | 94.1 | 86.4 | 81.4 | 86.2 | 100.5 | 132.7 |
| PKHD1 | 87.8 | 98.3 | 84 | 93.5 | 91.2 | 87.6 | 87.5 | 96.2 |
| PKHD1 | 79.1 | 91.4 | 95.6 | 71.7 | 78.1 | 88.4 | 94.2 | 94.3 |
| PKHD1 | 136.3 | 129.8 | 103.2 | 93.8 | 95.9 | 103.4 | 109.8 | 142.2 |
| PKHD1L1 | 126.5 | 147.7 | 95.9 | 90.4 | 89 | 90.2 | 119.2 | 143.7 |
| PKIA | 156.6 | 194.7 | 150.8 | 111.8 | 93.8 | 92 | 159.2 | 176.3 |
| PKIA | 87.3 | 95.9 | 86.9 | 88.4 | 87.6 | 84.6 | 83.7 | 99 |
| PKIA | 112.9 | 118.4 | 105 | 92.3 | 105 | 100.6 | 116.1 | 133.7 |
| PKIB | 128.2 | 142.4 | 90.6 | 115.6 | 101.1 | 116.1 | 101 | 125.2 |
| PKIB | 2591.7 | 3223.6 | 1403.3 | 1527.1 | 1100.5 | 1726.8 | 1403.5 | 1443.1 |
| PKIG | 106.2 | 118.2 | 93.5 | 96.6 | 88.7 | 94.1 | 96.4 | 125.6 |
| PKIG | 145.6 | 181.2 | 95.2 | 88.1 | 86.8 | 96.7 | 142.9 | 163.4 |
| PKIG | 123.2 | 135 | 93.9 | 100 | 85.3 | 84.4 | 123.9 | 143.1 |
| PKLR | 78.4 | 85.3 | 99.8 | 87.8 | 84.2 | 91 | 77.4 | 80.7 |

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|----------|-------|--------|--------|--------|--------|--------|--------|--------|
| PKLR | 91.3 | 98.1 | 98.1 | 83.5 | 79.6 | 76.6 | 88.5 | 85.9 |
| PKLR | 147.8 | 174.1 | 118.2 | 94.2 | 94.4 | 105.6 | 153.3 | 144.7 |
| PKLR | 93.1 | 102.4 | 84.2 | 93.5 | 92.7 | 92.9 | 94.9 | 105.4 |
| PKM2 | 937.3 | 1203.2 | 1475.7 | 1422.4 | 1167.6 | 2158.4 | 1044.5 | 2384.5 |
| PKM2 | 395.1 | 488.4 | 417.6 | 328.2 | 352 | 580.4 | 373.2 | 865.4 |
| PKM2 | 290.3 | 416 | 434 | 448.9 | 391 | 345.3 | 282.9 | 591.6 |
| PKMYT1 | 197.8 | 220.2 | 201.5 | 110.7 | 107.4 | 142 | 187.4 | 271.7 |
| PKN1 | 81.4 | 95.6 | 92.8 | 86.3 | 74.6 | 72.3 | 88.2 | 89.9 |
| PKN1 | 157.4 | 187.2 | 127.8 | 106.4 | 102 | 139.2 | 154.1 | 192.5 |
| PKN1 | 162.3 | 238.3 | 150.9 | 118.4 | 104.9 | 154 | 142.8 | 252 |
| PKN1 | 131.4 | 152.3 | 98.7 | 79.6 | 84.3 | 98.8 | 128.7 | 189 |
| PKN2 | 137.9 | 159 | 109 | 111 | 111.8 | 99.2 | 131.9 | 186.1 |
| PKN3 | 228.5 | 269.9 | 272.3 | 138.3 | 144 | 200.5 | 181.3 | 369.8 |
| PKNOX1 | 227.4 | 280.2 | 138.4 | 160.2 | 124.3 | 144.5 | 185.9 | 226.4 |
| PKNOX1 | 115.5 | 148.1 | 108.3 | 107.9 | 97.3 | 98.9 | 120.8 | 122.7 |
| PKNOX2 | 108.7 | 119.3 | 103.3 | 82.8 | 92 | 90.4 | 89.3 | 110.9 |
| PKP1 | 101.7 | 122.2 | 112.2 | 91.2 | 92.6 | 102 | 110.2 | 104.4 |
| PKP1 | 105.3 | 121.3 | 85.1 | 84.2 | 81.5 | 94.2 | 99.8 | 116.6 |
| PKP2 | 92.5 | 96.1 | 107.3 | 112.3 | 105.4 | 122 | 85.3 | 86.6 |
| PKP3 | 115.8 | 160.7 | 86.2 | 84.7 | 87.4 | 84.9 | 114.4 | 139.2 |
| PKP4 | 165.3 | 197.6 | 141.6 | 133.7 | 131.1 | 181.2 | 133.8 | 132 |
| PKP4 | 1676 | 1917.8 | 1151.4 | 871 | 691.2 | 1169 | 1165.8 | 1312.3 |
| PLA1A | 81.5 | 90.3 | 95.5 | 104 | 84.4 | 105.5 | 85.1 | 91.1 |
| PLA2G10 | 99.4 | 97 | 96.3 | 99.3 | 82.8 | 92.8 | 85.2 | 107.3 |
| PLA2G12A | 110.1 | 118.6 | 97.5 | 91 | 85.9 | 94.3 | 97.2 | 113 |
| PLA2G12B | 114.8 | 141.8 | 108.2 | 94.8 | 87.8 | 95.4 | 118.2 | 122.9 |
| PLA2G1B | 82.7 | 88.4 | 86.4 | 81.3 | 80.1 | 84 | 82 | 88.4 |
| PLA2G2A | 98.1 | 108.4 | 102.5 | 87.2 | 86.9 | 91.7 | 88.7 | 105.6 |
| PLA2G2D | 277.2 | 314.4 | 160 | 234.5 | 222.7 | 175 | 240.3 | 223.3 |
| PLA2G2E | 90.7 | 94.6 | 99.4 | 95.2 | 88.6 | 86.3 | 97.8 | 103 |
| PLA2G2F | 108.2 | 108 | 81.8 | 90.9 | 76.9 | 79.9 | 98.9 | 107.4 |
| PLA2G3 | 74.3 | 92.2 | 96.9 | 91.6 | 88.6 | 83.9 | 82.9 | 88.6 |
| PLA2G4A | 141.3 | 142 | 137.8 | 130.8 | 123.3 | 166.7 | 133.8 | 183.4 |
| PLA2G4B | 437.3 | 462.3 | 481.3 | 391 | 439 | 499.2 | 341.5 | 419.2 |
| PLA2G4C | 240.7 | 295.9 | 174.2 | 126.8 | 131.9 | 138.9 | 197.5 | 215.8 |
| PLA2G4D | 94.8 | 106.1 | 85.2 | 92.7 | 90.5 | 90.3 | 102.5 | 100.8 |
| PLA2G4E | 83 | 96 | 88 | 85.2 | 93.4 | 88.8 | 80.3 | 87.9 |
| PLA2G4F | 82.2 | 95 | 85.1 | 85.5 | 80.5 | 81.8 | 78.3 | 88.9 |
| PLA2G5 | 92.2 | 94.6 | 87.4 | 84.6 | 78.4 | 90.3 | 88.7 | 89.6 |
| PLA2G6 | 102.8 | 125.4 | 104.8 | 94.1 | 98.8 | 91.7 | 98.7 | 111.8 |
| PLA2G6 | 102.4 | 117 | 107.2 | 88.8 | 86.6 | 86.6 | 112.4 | 113.8 |
| PLA2G7 | 87.4 | 95.7 | 96.9 | 515.7 | 402 | 873.9 | 94.1 | 102.7 |
| PLA2R1 | 90.8 | 92.6 | 99.8 | 86.7 | 83.1 | 94.4 | 83 | 96.7 |
| PLA2R1 | 78.2 | 88.3 | 95.7 | 80.4 | 80.9 | 96.1 | 76.4 | 82.5 |
| PLAA | 91.1 | 110.6 | 116.8 | 103.8 | 105.7 | 111.9 | 101.5 | 103.1 |
| PLAA | 177.4 | 226.7 | 113.4 | 89.8 | 93.2 | 98.6 | 165.1 | 173.2 |
| PLAA | 242.2 | 277.4 | 112.3 | 107.7 | 110.6 | 104 | 256 | 278 |
| PLAC1 | 94.6 | 105.8 | 92.6 | 96.5 | 92.4 | 88.7 | 97.8 | 108.5 |
| PLAC2 | 147.4 | 188.1 | 107.5 | 111.6 | 80.8 | 120.4 | 152 | 185.1 |
| PLAC4 | 126.4 | 143.1 | 96.5 | 93.8 | 83.7 | 91.2 | 111.5 | 124.6 |

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|---------|---------|---------|--------|--------|--------|--------|--------|---------|
| PLAC8 | 13095.5 | 15767.6 | 6839.7 | 8871.5 | 4869.6 | 8051.6 | 9709.7 | 13594.6 |
| PLAC8L1 | 104.5 | 124.3 | 114.6 | 100.6 | 94.1 | 102.1 | 102.1 | 137.2 |
| PLAC9 | 91.1 | 112.7 | 108.9 | 92.6 | 89.4 | 82.9 | 96.2 | 102.8 |
| PLAG1 | 101.5 | 111.2 | 91.5 | 89.4 | 75.3 | 85.3 | 101.6 | 107 |
| PLAG1 | 105.2 | 109.8 | 95 | 92.5 | 90.7 | 94.2 | 101.2 | 121.8 |
| PLAGL1 | 212.3 | 252.8 | 206.8 | 320.5 | 265.1 | 445 | 166.4 | 286.5 |
| PLAGL1 | 167.7 | 164 | 130.6 | 132.3 | 121.6 | 141.3 | 161.4 | 220.1 |
| PLAGL2 | 551.1 | 678.6 | 633 | 596.4 | 512.6 | 649.9 | 499.2 | 747.9 |
| PLAT | 85 | 97.8 | 84 | 81.4 | 79.2 | 81.5 | 92.9 | 87.2 |
| PLAU | 716.5 | 902.7 | 479 | 287.4 | 259.7 | 453.2 | 727.5 | 1052 |
| PLAUR | 471.8 | 660.7 | 250.6 | 222.6 | 167 | 225.6 | 509.1 | 495.9 |
| PLAUR | 238.2 | 313.8 | 160.2 | 135.8 | 130.4 | 132.3 | 283.7 | 353.6 |
| PLAUR | 563.6 | 776.2 | 429.8 | 375.5 | 310.8 | 410.5 | 648.8 | 795.9 |
| PLB1 | 227.1 | 276.5 | 135.2 | 123.7 | 114.3 | 150.7 | 166.5 | 190.3 |
| PLCB1 | 130.3 | 143.2 | 96.5 | 101.4 | 88.4 | 122 | 128.1 | 159.3 |
| PLCB1 | 105.7 | 108.1 | 98.3 | 99.3 | 84 | 86.3 | 97.5 | 110.1 |
| PLCB2 | 323.4 | 303.4 | 372.2 | 344.5 | 319.4 | 401.5 | 194.9 | 325.5 |
| PLCB3 | 146.3 | 165.6 | 96.5 | 98.3 | 89.9 | 104.5 | 140.4 | 145.2 |
| PLCB4 | 97.3 | 114.2 | 107.3 | 96.2 | 100.9 | 105.4 | 88.5 | 104 |
| PLCB4 | 83.2 | 87 | 87.1 | 75.9 | 77.6 | 73.9 | 83.7 | 84.5 |
| PLCD1 | 112.8 | 133.5 | 106.1 | 94.2 | 92.4 | 115.6 | 114.8 | 118.6 |
| PLCD3 | 103 | 111.8 | 98.9 | 79 | 88.2 | 71.3 | 99.3 | 119.1 |
| PLCD4 | 91.1 | 118.7 | 101.2 | 83.9 | 81 | 86.9 | 99.7 | 96.3 |
| PLCE1 | 102 | 105.5 | 78.7 | 82.7 | 84.5 | 93.1 | 86 | 101.2 |
| PLCG1 | 152.3 | 121.8 | 117.3 | 105.5 | 103.8 | 116.2 | 119.3 | 220.7 |
| PLCG1 | 323.3 | 324 | 167.7 | 170 | 160.8 | 195.6 | 206.3 | 396.5 |
| PLCG2 | 2953.9 | 3430.3 | 2100.8 | 2595.7 | 2186.5 | 3034.3 | 2234.6 | 2678.8 |
| PLCH1 | 77.6 | 80.1 | 95.4 | 90.3 | 85.3 | 87.4 | 75 | 81.8 |
| PLCH2 | 146.2 | 167.3 | 111.4 | 100.6 | 97.8 | 98.8 | 134.8 | 153.5 |
| PLCL1 | 149.4 | 187.7 | 102.2 | 84.8 | 74.8 | 93.8 | 123.3 | 175.4 |
| PLCL2 | 396.6 | 549.6 | 275.6 | 341.2 | 236.4 | 338 | 353.5 | 452 |
| PLCXD1 | 837.1 | 783.1 | 637 | 826 | 686 | 960.4 | 611.9 | 1246.9 |
| PLCXD2 | 115.7 | 120.3 | 79.3 | 76.8 | 75.4 | 79.8 | 104.2 | 119.9 |
| PLCXD3 | 83 | 85.2 | 102.5 | 81.8 | 90.7 | 88.6 | 79.1 | 90.9 |
| PLCZ1 | 92.8 | 117 | 97.2 | 85.4 | 80.1 | 89 | 91.5 | 98.7 |
| PLD1 | 190.7 | 208.9 | 132.8 | 142.3 | 134.9 | 181.8 | 163.1 | 170.5 |
| PLD2 | 93.6 | 107 | 100.5 | 97.6 | 97.8 | 103.1 | 99.2 | 110.3 |
| PLD3 | 112.9 | 136.9 | 94.7 | 81.8 | 84.5 | 78.2 | 115.6 | 133.3 |
| PLD3 | 1261.5 | 1555.1 | 763.9 | 2765.8 | 2408.1 | 1800.9 | 1180.9 | 1395.8 |
| PLD3 | 100 | 141.2 | 113.4 | 101.4 | 92.9 | 103.4 | 100.1 | 116.2 |
| PLD4 | 145.8 | 173 | 141.1 | 133.5 | 134.8 | 133.4 | 129.3 | 170.1 |
| PLD5 | 76.1 | 78.8 | 82.4 | 81.3 | 85.7 | 78.8 | 73.4 | 74.5 |
| PLDN | 1279 | 1504.7 | 728.5 | 788.9 | 718.7 | 918 | 1227.7 | 2588.1 |
| PLEC1 | 126.4 | 168 | 195 | 194.3 | 146.6 | 243 | 137.5 | 185.9 |
| PLEC1 | 81.1 | 99.2 | 86.1 | 89.2 | 83.5 | 87.1 | 96.2 | 94.8 |
| PLEC1 | 109.3 | 110.9 | 106.1 | 92.6 | 84.6 | 89.7 | 110 | 120.7 |
| PLEC1 | 95 | 98.3 | 101.1 | 94.5 | 85.4 | 94.6 | 92.1 | 96.1 |
| PLEC1 | 87.5 | 99.8 | 94.6 | 89.1 | 88 | 94.1 | 87.7 | 94.9 |
| PLEC1 | 82.4 | 105.6 | 94.7 | 94.1 | 86.5 | 87.3 | 85.3 | 100.8 |
| PLEC1 | 93.9 | 100.5 | 88 | 90.6 | 85.1 | 86.4 | 90.3 | 107.4 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| PLEC1 | 108.7 | 115.1 | 99.6 | 95.5 | 98.5 | 91.5 | 98.6 | 106.7 |
| PLEK | 3105.1 | 4045.1 | 2340 | 2855.7 | 3330.6 | 3521.2 | 2648.4 | 2519.5 |
| PLEK2 | 102.4 | 123.2 | 95.3 | 85.2 | 88 | 91.7 | 92.7 | 125.7 |
| PLEKHA1 | 81.1 | 96.5 | 101 | 88.2 | 82.9 | 94 | 93.6 | 118.3 |
| PLEKHA1 | 82.1 | 103.5 | 99.3 | 89.1 | 83.6 | 87.4 | 88.9 | 115.2 |
| PLEKHA3 | 287.4 | 405.3 | 187.9 | 186.6 | 163.1 | 249.8 | 265.6 | 343.8 |
| PLEKHA4 | 123.7 | 154.5 | 117.1 | 103.8 | 103.3 | 100.5 | 118.4 | 170 |
| PLEKHA5 | 120.1 | 146.6 | 108.7 | 112.5 | 101.1 | 97.1 | 113.6 | 139.1 |
| PLEKHA6 | 91.3 | 104 | 105.6 | 94.8 | 88.9 | 95.8 | 94.3 | 100.2 |
| PLEKHA7 | 96.1 | 114.1 | 106.9 | 109.2 | 98 | 112.9 | 101.8 | 96.7 |
| PLEKHA8 | 119.7 | 129.5 | 106.1 | 85.4 | 92.1 | 96.2 | 101.4 | 108.3 |
| PLEKHA9 | 597.3 | 837.6 | 362.9 | 402.8 | 324.1 | 437.9 | 450.7 | 524.1 |
| PLEKHB1 | 118.7 | 119 | 115.2 | 95.3 | 105.2 | 119 | 103.2 | 116.3 |
| PLEKHB2 | 689.3 | 827.7 | 351.6 | 366.6 | 282.7 | 263.2 | 651.6 | 1041.5 |
| PLEKHB2 | 1995.6 | 2521.5 | 865.9 | 671 | 546.9 | 395.9 | 1659.5 | 2166.2 |
| PLEKHB2 | 96.1 | 97.6 | 81.7 | 91.5 | 91.7 | 95.2 | 85.6 | 93.6 |
| PLEKHC1 | 111.3 | 126.6 | 101.6 | 89 | 88.8 | 95.7 | 119.1 | 155.7 |
| PLEKHF1 | 307.1 | 399.6 | 244.9 | 138.4 | 131.1 | 136.7 | 389.8 | 322.1 |
| PLEKHF2 | 437.2 | 584.4 | 178.2 | 125.5 | 116.3 | 166.6 | 322.5 | 360.3 |
| PLEKHG1 | 80.6 | 80.7 | 97.3 | 84.2 | 89.3 | 79.9 | 84.7 | 82.6 |
| PLEKHG2 | 131.4 | 146.3 | 132.3 | 105 | 98.2 | 148.3 | 128.1 | 193.5 |
| PLEKHG3 | 257.7 | 309.9 | 268.3 | 249.6 | 231.3 | 280.2 | 222.6 | 268.5 |
| PLEKHG4 | 182.2 | 202.8 | 212.6 | 153.2 | 141.2 | 174.9 | 134.6 | 153.2 |
| PLEKHG5 | 75.4 | 89.8 | 100.2 | 88.3 | 88.9 | 93.1 | 74.3 | 77.2 |
| PLEKHG5 | 123.6 | 135.8 | 95 | 92.3 | 84.4 | 84.7 | 102.6 | 129.6 |
| PLEKHG5 | 126.2 | 145.2 | 82 | 77.6 | 80.7 | 88.4 | 132.3 | 125.8 |
| PLEKHG5 | 92.5 | 90.6 | 102.5 | 84.3 | 96 | 81.6 | 89.5 | 98.5 |
| PLEKHG5 | 107.5 | 107.9 | 101.9 | 93.6 | 88.2 | 86.8 | 101.3 | 101.6 |
| PLEKHG6 | 87.5 | 90.7 | 90.2 | 85 | 85.8 | 87.7 | 92.4 | 104.3 |
| PLEKHH1 | 117.9 | 143.5 | 104.9 | 116.9 | 109.1 | 142.6 | 104 | 144 |
| PLEKHH2 | 78.4 | 92.9 | 87.5 | 86.5 | 95.2 | 86.6 | 86.5 | 88.5 |
| PLEKHH3 | 225.6 | 261.9 | 136 | 121.8 | 125 | 126 | 233.4 | 273.1 |
| PLEKHJ1 | 233 | 303.6 | 180 | 163.4 | 147.4 | 184 | 197.2 | 220.7 |
| PLEKHM1 | 165.8 | 196.2 | 181.7 | 160.7 | 144.9 | 172.3 | 170.8 | 285.6 |
| PLEKHN1 | 185.3 | 220.2 | 125.2 | 121.6 | 105.7 | 122.4 | 180.9 | 209 |
| PLEKHO1 | 221.2 | 265.6 | 131.9 | 143.1 | 198.3 | 157.1 | 265 | 317.7 |
| PLEKHQ1 | 146.2 | 175 | 126.9 | 120.3 | 121.1 | 157.5 | 162.4 | 356.7 |
| PLG | 92 | 96.4 | 89.1 | 92.7 | 77.5 | 86.9 | 87.1 | 103.6 |
| PLGLB1 | 118.1 | 151.4 | 125.5 | 126.9 | 132.9 | 138.9 | 117 | 153 |
| PLIN | 85.2 | 88.2 | 89.6 | 76.9 | 82.5 | 75.8 | 88.1 | 84 |
| PLK1 | 583 | 636.7 | 496.1 | 262 | 233.6 | 275.6 | 513.7 | 939 |
| PLK2 | 102.5 | 117.8 | 93.4 | 88.3 | 79.6 | 87.8 | 97.5 | 120.7 |
| PLK3 | 120.5 | 133.1 | 100 | 79.9 | 78.1 | 89.9 | 125.4 | 155.7 |
| PLK4 | 1552.9 | 1906.9 | 1225.3 | 864.2 | 781.9 | 1588.4 | 1032.6 | 1848.1 |
| PLN | 119 | 123 | 96.9 | 87.9 | 87.3 | 86.5 | 112.4 | 109.7 |
| PLOD1 | 1249.9 | 1568 | 875.1 | 1081.1 | 905.4 | 1087.1 | 1028.8 | 1044.1 |
| PLOD2 | 129.3 | 144.7 | 90.1 | 87.2 | 81.4 | 97.7 | 111.5 | 140.1 |
| PLOD2 | 134.6 | 131.5 | 98.1 | 104.4 | 84.6 | 92.7 | 121.1 | 147.3 |
| PLOD2 | 389.4 | 485.6 | 352.5 | 249 | 225.9 | 339.9 | 310.9 | 612.5 |
| PLOD3 | 2676.9 | 2965.5 | 2906.8 | 2303.1 | 1636.3 | 2119.9 | 2402.7 | 4049.2 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| PLP1 | 117.3 | 119.9 | 101.1 | 94.8 | 86.5 | 100.1 | 112.8 | 128.5 |
| PLP1 | 96.8 | 114.5 | 85.4 | 76.4 | 80.5 | 97.2 | 100.6 | 105.4 |
| PLP1 | 116.9 | 141.2 | 93.3 | 82.4 | 85.1 | 88.8 | 109.8 | 129.5 |
| PLP2 | 268.7 | 383.7 | 170 | 135.3 | 140.9 | 164.4 | 264.5 | 334.6 |
| PLRG1 | 2090.5 | 2718.2 | 960.9 | 793.4 | 579.4 | 1166.8 | 1730.1 | 2439.7 |
| PLS1 | 113.9 | 129.7 | 122 | 96.5 | 98.5 | 112.6 | 108.6 | 145.9 |
| PLS3 | 826.6 | 1033 | 377.8 | 297.5 | 255.3 | 368.5 | 950 | 1732.1 |
| PLSCR1 | 292.8 | 355.6 | 141.1 | 149.9 | 125.1 | 146.7 | 228.1 | 264.8 |
| PLSCR2 | 89.7 | 109.4 | 100.8 | 98.4 | 98.6 | 97.4 | 93.4 | 95.5 |
| PLSCR3 | 928.2 | 1120.6 | 630.7 | 560.1 | 472.1 | 445.8 | 780.4 | 846.7 |
| PLSCR4 | 130.5 | 174.5 | 105.5 | 101.2 | 100.8 | 119.4 | 130.5 | 167.4 |
| PLTP | 238.1 | 341.8 | 178.2 | 150.5 | 142.6 | 118.9 | 204.1 | 287.3 |
| PLTP | 829.2 | 907.6 | 502.1 | 590.8 | 457.7 | 837.6 | 622.8 | 938 |
| PLUNC | 84.9 | 88.5 | 97.6 | 85.1 | 78.4 | 87.7 | 84.9 | 85.1 |
| PLVAP | 95.4 | 95.6 | 95.6 | 96.4 | 86.3 | 84.6 | 98.6 | 93 |
| PLXDC1 | 124.4 | 141.6 | 112.7 | 101 | 104.8 | 103.7 | 117.7 | 125 |
| PLXDC2 | 228 | 276 | 130.8 | 128.3 | 111.1 | 145.5 | 168.8 | 241.1 |
| PLXNA1 | 157.9 | 168.3 | 176.4 | 134.4 | 123 | 135.1 | 137.8 | 180.5 |
| PLXNA2 | 133.4 | 185.7 | 95.8 | 87.1 | 81.8 | 94.8 | 123.5 | 135.4 |
| PLXNA3 | 110.7 | 115.2 | 136.2 | 139.4 | 124 | 181.7 | 104.2 | 148 |
| PLXNA4B | 88.3 | 99.7 | 82.6 | 86.3 | 77.6 | 76.2 | 88.7 | 93.7 |
| PLXNB1 | 111.6 | 125.6 | 135.4 | 116.4 | 107.3 | 127 | 110.8 | 130.2 |
| PLXNB3 | 87.2 | 92 | 86.5 | 88.1 | 84.3 | 87.6 | 88.1 | 91.9 |
| PLXNC1 | 79.5 | 91.1 | 106.4 | 115.3 | 100.6 | 110.2 | 86.1 | 85.2 |
| PLXND1 | 110.7 | 134.6 | 84.4 | 80.5 | 97.3 | 88.5 | 94.9 | 151 |
| PMAIP1 | 395.7 | 451.4 | 188.9 | 160.6 | 136.6 | 191.2 | 499.9 | 1060.7 |
| PMCH | 74.3 | 78.1 | 94 | 95.3 | 92.8 | 87.4 | 83.2 | 82.8 |
| PMCHL1 | 99.1 | 110.3 | 104 | 90.9 | 93.2 | 93.5 | 107.2 | 117.2 |
| PMFBP1 | 117.3 | 141.2 | 95.2 | 101.1 | 85.1 | 95.7 | 114.3 | 123.2 |
| PML | 85.7 | 147 | 97.4 | 90.9 | 97.3 | 86.4 | 111.4 | 131 |
| PML | 91.7 | 96.1 | 105.8 | 90.3 | 93.2 | 99.3 | 87 | 99.7 |
| PML | 156.4 | 181.8 | 120.1 | 117.6 | 97.4 | 106.3 | 149 | 172.6 |
| PML | 104.7 | 164.7 | 106.9 | 104.3 | 87.1 | 86.9 | 124.3 | 143.5 |
| PML | 108.2 | 125.1 | 102.7 | 104.5 | 92.9 | 105.1 | 106 | 104.7 |
| PMM1 | 1463.4 | 1932.5 | 1055.5 | 1003.4 | 823.3 | 1098 | 1356.9 | 1647.2 |
| PMM2 | 586.6 | 689 | 418.7 | 317.7 | 223.1 | 336.8 | 588.4 | 595.4 |
| PMP2 | 76 | 91.6 | 85.6 | 88.2 | 73.5 | 86 | 81.9 | 84.8 |
| PMP22 | 84.2 | 82.1 | 100.8 | 92.1 | 88.8 | 88.1 | 85.8 | 90.2 |
| PMP22 | 100.4 | 112.2 | 91.2 | 80 | 92.3 | 93.8 | 97 | 115.9 |
| PMP22 | 160.9 | 206.1 | 120.9 | 127.7 | 123.8 | 126.7 | 172.7 | 178.9 |
| PMP22CD | 96.1 | 104.4 | 102 | 95.7 | 87.2 | 90.7 | 91.9 | 113.6 |
| PMPCA | 1440.7 | 1715.8 | 1211.1 | 1049.9 | 835.1 | 1287.7 | 1256.1 | 1388.6 |
| PMPCB | 2438 | 3278.1 | 1394.7 | 1398.6 | 1130.7 | 1753.6 | 2055.6 | 2518.1 |
| PMS1 | 182.6 | 192.1 | 126.6 | 143.7 | 106.2 | 179 | 141.3 | 243.8 |
| PMS2 | 486 | 600.9 | 221.2 | 181.8 | 158 | 208.5 | 352 | 401 |
| PMS2 | 174.2 | 232.4 | 135.4 | 113.5 | 120 | 101.3 | 148.4 | 151.3 |
| PMS2CL | 171.4 | 206.5 | 134.2 | 125.5 | 130.9 | 130.4 | 124.1 | 118.2 |
| PMS2CL | 99.2 | 104.9 | 75.2 | 90.3 | 80.8 | 92.2 | 93.9 | 105.1 |
| PMS2L2 | 112.6 | 144.9 | 103.2 | 101.9 | 86 | 94.3 | 121.8 | 132.2 |
| PMS2L3 | 291.6 | 348.5 | 171.1 | 169 | 176.3 | 189.6 | 242.2 | 314.5 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| PMS2L5 | 458.6 | 623.5 | 205.3 | 167.5 | 147.2 | 178.8 | 393.5 | 601.9 |
| PMVK | 434.8 | 653.9 | 204.3 | 181 | 170.8 | 205.3 | 457.6 | 442 |
| PNCK | 130.7 | 140.4 | 110.9 | 234.4 | 302.3 | 455.7 | 114.3 | 132.1 |
| PNKD | 231.3 | 256.3 | 344.5 | 303.7 | 326.8 | 406 | 192.8 | 342.3 |
| PNKD | 144 | 180.4 | 97.2 | 94.6 | 104.2 | 111.2 | 151.4 | 162.2 |
| PNKD | 302.3 | 338.6 | 196 | 171.1 | 173.2 | 249.5 | 244.3 | 240.1 |
| PNKP | 847.6 | 998.1 | 694.9 | 493.2 | 420.5 | 586.2 | 725.2 | 1173.8 |
| PNLDC1 | 86.9 | 105.1 | 86.8 | 80.3 | 80.2 | 80.2 | 85.8 | 103.5 |
| PNLIP | 106.3 | 121.6 | 91.5 | 93.7 | 89.1 | 90.6 | 117.8 | 123.1 |
| PNLIPRP1 | 87.1 | 107.5 | 95.2 | 84.7 | 89.5 | 85.5 | 87.8 | 94.4 |
| PNLIPRP2 | 80.8 | 82.6 | 81.5 | 79.2 | 74.8 | 84 | 73.2 | 86.4 |
| PNLIPRP3 | 75.1 | 80.2 | 86.8 | 77.9 | 87.6 | 84.2 | 81.6 | 84.6 |
| PNMA1 | 222.3 | 263.8 | 161.2 | 154 | 131.1 | 160.2 | 160.2 | 271.7 |
| PNMA2 | 141.3 | 163 | 135.8 | 437.3 | 419 | 524.9 | 132.6 | 120.7 |
| PNMA3 | 407.9 | 483.5 | 253.1 | 144.2 | 131.6 | 143.5 | 230.9 | 247.1 |
| PNMA5 | 83.9 | 104.6 | 82.5 | 77.5 | 83.3 | 84.9 | 74.6 | 84.2 |
| PNMA6A | 147.6 | 183.9 | 110.4 | 89.7 | 99 | 99.8 | 121.9 | 175.6 |
| PNMT | 78.9 | 95.1 | 90.2 | 92.3 | 97.7 | 99 | 83.9 | 81.9 |
| PNN | 2655.6 | 2638.7 | 1140.8 | 1134.3 | 1032.3 | 1974.2 | 2063.2 | 3944.3 |
| PNOC | 159.6 | 175.3 | 129.7 | 87.1 | 86.7 | 93.3 | 144 | 178.2 |
| PNPLA1 | 162.4 | 178.8 | 123.2 | 101.2 | 92 | 110.9 | 188.3 | 217.6 |
| PNPLA1 | 116.7 | 131.5 | 102 | 91.5 | 87.9 | 106.8 | 127.5 | 182.9 |
| PNPLA2 | 190.8 | 252.4 | 167.4 | 153.1 | 151.1 | 212.9 | 178.2 | 318.5 |
| PNPLA4 | 95.7 | 114.9 | 103.8 | 92.8 | 93.3 | 105.5 | 88.6 | 113.2 |
| PNPLA5 | 90.6 | 106 | 91.9 | 81.4 | 80.2 | 79.4 | 84.4 | 90.2 |
| PNPLA8 | 108.5 | 137 | 92.5 | 102.3 | 92.1 | 116 | 113.5 | 164.7 |
| PNPO | 2445.6 | 3107.9 | 1180.3 | 1073 | 812.8 | 1237.6 | 1885.4 | 2031 |
| PNPT1 | 8251.1 | 8696.1 | 3214.2 | 6019.3 | 5554.3 | 4159.3 | 6632.6 | 7613.5 |
| PNRC1 | 111.4 | 113.8 | 106.4 | 99.9 | 97 | 100.6 | 96.9 | 121.6 |
| PNRC2 | 3659.5 | 4463.8 | 1423.4 | 1802.1 | 1376.5 | 2096.4 | 2724.2 | 3901.1 |
| PODN | 89.2 | 97.4 | 99.7 | 98.1 | 99 | 88.9 | 88.7 | 109.7 |
| PODXL | 175.5 | 217.8 | 173.7 | 162.7 | 132 | 179.4 | 158.1 | 187.6 |
| PODXL | 77.2 | 86.8 | 100.8 | 94.2 | 91.1 | 87.2 | 81 | 83.2 |
| PODXL | 119.8 | 124.2 | 100.9 | 95.4 | 92.8 | 107.6 | 114.2 | 131.6 |
| PODXL2 | 290.2 | 320.7 | 373.7 | 382.3 | 303.3 | 488.7 | 220.1 | 343.1 |
| POF1B | 129.5 | 139.5 | 93.6 | 79.8 | 87.7 | 97.2 | 103.3 | 147.7 |
| POFUT1 | 2066 | 2369.7 | 935.6 | 1560.7 | 1631.5 | 1280.6 | 2379 | 3775.7 |
| POFUT1 | 104.8 | 136.1 | 105 | 109.2 | 94.2 | 93.9 | 108.7 | 121.8 |
| POFUT1 | 99.7 | 122 | 92.3 | 96.6 | 95 | 85.6 | 89.1 | 106.7 |
| POFUT2 | 300.5 | 323.9 | 284.8 | 308.2 | 282.5 | 368.2 | 267.6 | 461.7 |
| POFUT2 | 221.5 | 284.7 | 144.8 | 139.1 | 108.5 | 143.3 | 194.1 | 272.9 |
| POFUT2 | 262 | 266.5 | 274 | 306.3 | 249.6 | 396.3 | 251.6 | 467 |
| POGK | 2266.1 | 3422.6 | 2445 | 1476.2 | 1125.2 | 1973.8 | 1880.5 | 2609 |
| POGZ | 228 | 297.3 | 179.2 | 207.4 | 222.1 | 190.1 | 218 | 223.1 |
| POGZ | 146.5 | 174.7 | 126.1 | 108.6 | 109.8 | 105.7 | 119.3 | 162.3 |
| POGZ | 115.4 | 149.3 | 114.2 | 123.4 | 108.8 | 109.7 | 110.6 | 120.7 |
| POL3S | 125.4 | 120.2 | 114.8 | 110 | 111.5 | 125.3 | 98.3 | 120.9 |
| POLA1 | 490.7 | 671.4 | 305.2 | 327.7 | 270.6 | 367 | 408 | 458 |
| POLA2 | 1765.9 | 2368.4 | 1245.7 | 1183 | 854.8 | 1104.1 | 1226.7 | 1311.4 |
| POLB | 1038.5 | 1363 | 637 | 588.2 | 495.2 | 670.3 | 1007.1 | 1133.1 |

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|---------|--------|---------|--------|--------|--------|--------|--------|--------|
| POLD1 | 416.1 | 498 | 460.5 | 360.1 | 316.9 | 513.8 | 304.6 | 569.8 |
| POLD3 | 93.3 | 115.8 | 101.8 | 96.2 | 102.6 | 107.5 | 110.9 | 97.5 |
| POLD4 | 286.7 | 327.7 | 157.4 | 175.6 | 158.6 | 211.2 | 199.6 | 286.7 |
| POLDIP2 | 379.1 | 500.3 | 344.8 | 304.7 | 242.5 | 379.4 | 328.5 | 456 |
| POLDIP3 | 935.3 | 1117.3 | 816.9 | 646.3 | 494.5 | 714.2 | 863.7 | 1591.5 |
| POLDIP3 | 174.1 | 250.3 | 153.9 | 232 | 197.1 | 111.2 | 156.3 | 189.7 |
| POLE | 260.5 | 343 | 419.1 | 328.3 | 328.7 | 592.5 | 229.6 | 356.4 |
| POLE2 | 1783.6 | 2296.3 | 908.8 | 500.5 | 396.2 | 550.2 | 1443.4 | 1700.8 |
| POLE3 | 8712.9 | 11767.1 | 6097.8 | 4629.2 | 3333.3 | 4481.2 | 7052.8 | 8474.2 |
| POLE4 | 5693 | 7235.5 | 5125.9 | 4903.5 | 4166 | 5511.5 | 5309.6 | 7514.2 |
| POLG | 420.8 | 535.5 | 432.6 | 371.4 | 331.3 | 459.9 | 360.2 | 573.5 |
| POLG2 | 380.1 | 371 | 139.8 | 130.8 | 101.2 | 143.1 | 285.7 | 365.7 |
| POLH | 98.7 | 118.7 | 104 | 104.5 | 86.9 | 83.3 | 101.3 | 131.4 |
| POLI | 88.2 | 90.8 | 95.2 | 95.7 | 78.7 | 81.7 | 91.1 | 97.4 |
| POLK | 77.9 | 87.1 | 85.1 | 83.5 | 85.7 | 81.1 | 77.6 | 90.6 |
| POLL | 128.4 | 137.6 | 104.9 | 100.3 | 88 | 104.6 | 107.9 | 146 |
| POLM | 253.6 | 304.3 | 281.1 | 230.8 | 183 | 266.3 | 215.9 | 438.1 |
| POLN | 113.4 | 108.3 | 102.5 | 92.7 | 79.2 | 88 | 97.8 | 115.1 |
| POLQ | 1270.3 | 1887.1 | 988.4 | 1220.5 | 1096.1 | 1751.7 | 1011.8 | 1233.3 |
| POLR1A | 126.8 | 144.1 | 103.5 | 106.2 | 83 | 88.5 | 127.7 | 128.3 |
| POLR1B | 135 | 150.8 | 111.3 | 106.2 | 98.5 | 110.1 | 113.4 | 144.8 |
| POLR1C | 2601.7 | 3161.6 | 1398.4 | 1055.7 | 802.2 | 1297 | 2094.7 | 2313.3 |
| POLR1C | 1241.8 | 1662.9 | 854.9 | 668.9 | 460.4 | 858.5 | 1204.8 | 1643.1 |
| POLR1D | 5628.6 | 6473.8 | 4020.4 | 4094.6 | 3194.7 | 4053.6 | 4781.9 | 6627.1 |
| POLR1E | 3136.5 | 3802.2 | 1146.8 | 826.4 | 775.4 | 1020.2 | 2655 | 3226.2 |
| POLR2A | 778.7 | 930.6 | 953.6 | 1347 | 1076.8 | 1517.7 | 808.5 | 1276.7 |
| POLR2B | 1256.3 | 1766.8 | 562.9 | 558.6 | 354.4 | 731.3 | 904.8 | 1506 |
| POLR2C | 346.3 | 506.7 | 178.7 | 138.3 | 129.5 | 163.1 | 317 | 430.2 |
| POLR2C | 1809.2 | 2432.9 | 1407 | 955.3 | 727.6 | 1411.8 | 1476.8 | 2260.1 |
| POLR2D | 1477.9 | 2218.3 | 1238.5 | 822.1 | 656.2 | 1076.6 | 1121 | 2179.4 |
| POLR2F | 5343.1 | 6444.6 | 4668.9 | 4166.8 | 3346.1 | 5329 | 4962.5 | 6085.1 |
| POLR2G | 3032 | 3634.6 | 1497.1 | 1199.7 | 905.3 | 1242.7 | 2900.3 | 3829.6 |
| POLR2H | 2975.6 | 3499.7 | 1329.7 | 997.8 | 806.8 | 1123.4 | 2244.3 | 2847.2 |
| POLR2I | 2230.1 | 2712.9 | 1098.5 | 673.1 | 520.3 | 709.4 | 1594.2 | 2254.5 |
| POLR2J | 322 | 443.3 | 224.5 | 194.9 | 171.3 | 212.3 | 301 | 460.9 |
| POLR2J2 | 95.8 | 109 | 103.1 | 101.2 | 93.5 | 85.3 | 93.8 | 97.8 |
| POLR2J2 | 125.1 | 125.9 | 102 | 96.4 | 99.3 | 101.7 | 119.3 | 135.2 |
| POLR2J3 | 2467.1 | 3148.1 | 523.2 | 418.5 | 374.7 | 480.2 | 2283.8 | 2899.8 |
| POLR2K | 236.8 | 265.4 | 147.3 | 120.2 | 116.3 | 130 | 237.2 | 369.3 |
| POLR2L | 217.9 | 256.4 | 198.3 | 167.4 | 136.6 | 147.9 | 219.1 | 292.9 |
| POLR3A | 278.4 | 349.3 | 353.3 | 300 | 259.2 | 354.6 | 263.7 | 463.1 |
| POLR3B | 433.1 | 578.6 | 342.1 | 370.4 | 250.1 | 436.1 | 309.5 | 476.9 |
| POLR3C | 2388.1 | 2954.7 | 1677.6 | 1444.7 | 987.7 | 1734.4 | 2167.1 | 2736.3 |
| POLR3D | 178.3 | 242.6 | 184 | 124 | 112.2 | 132.3 | 166.4 | 229.3 |
| POLR3F | 191.1 | 223.1 | 112.8 | 101.7 | 100.4 | 119.9 | 165.3 | 186.8 |
| POLR3G | 161.6 | 193.2 | 132 | 100.1 | 86.3 | 96.5 | 144.1 | 127.2 |
| POLR3GL | 2686.3 | 3096.5 | 1325.7 | 1343.1 | 964.3 | 1554.6 | 2181.8 | 3121.6 |
| POLR3H | 701 | 943.9 | 641.8 | 408.6 | 363 | 401 | 601.2 | 567.5 |
| POLR3H | 114.9 | 117.6 | 108.5 | 86.4 | 78.3 | 88.3 | 100.3 | 117 |
| POLR3H | 109.5 | 144.9 | 98.5 | 90.6 | 96.2 | 92.9 | 103.6 | 128.1 |

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|----------|---------|---------|--------|--------|--------|--------|---------|---------|
| POLR3K | 1551.7 | 1686.6 | 713.6 | 486.7 | 365.3 | 486.8 | 1346.8 | 1503.6 |
| POLRMT | 397.4 | 441 | 568.9 | 346.1 | 277 | 427.8 | 296.7 | 525.9 |
| POLS | 427 | 503.8 | 278.4 | 302.3 | 299.2 | 355.4 | 443.9 | 586 |
| POM121 | 92.4 | 97.9 | 97.8 | 173.5 | 133.7 | 97.9 | 91.6 | 99.6 |
| POMC | 118.7 | 152.8 | 115.6 | 114.5 | 98.1 | 127.7 | 119.1 | 123.1 |
| POMC | 102 | 124.7 | 93.6 | 90.4 | 89.8 | 96.6 | 111.4 | 117.3 |
| POMGNT1 | 684.3 | 829 | 312.8 | 334.3 | 295.4 | 361.9 | 501.8 | 527.9 |
| POMP | 83.1 | 84 | 91.5 | 88.6 | 81.8 | 84.6 | 73.2 | 86.4 |
| POMT1 | 110.4 | 134.7 | 96.6 | 92.1 | 97.2 | 89.2 | 105.6 | 135.3 |
| POMT1 | 338.9 | 411.8 | 266.2 | 212.7 | 211.3 | 300.2 | 270.1 | 482.9 |
| POMT2 | 142.3 | 156.4 | 132.8 | 143.6 | 123.7 | 181.1 | 138.9 | 201.3 |
| POMZP3 | 98.9 | 107.6 | 112 | 95.9 | 100.2 | 103.8 | 95 | 149.1 |
| PON1 | 93.8 | 108 | 82.6 | 79.1 | 78.9 | 81.2 | 97.6 | 120.5 |
| PON2 | 1273.5 | 1392.4 | 584.4 | 767.2 | 480.8 | 679.5 | 1022.1 | 1660.8 |
| PON3 | 123.2 | 112.5 | 101.3 | 92.3 | 91.5 | 95.7 | 93.4 | 108.3 |
| POP1 | 541.8 | 742.2 | 392.9 | 234.8 | 202.6 | 285.5 | 470 | 773.1 |
| POP4 | 513.5 | 642.1 | 157.9 | 138.5 | 146.4 | 163.8 | 466.2 | 733.2 |
| POP5 | 878.4 | 977.3 | 495 | 569.7 | 481.2 | 654.4 | 569.7 | 674.4 |
| POP7 | 705.7 | 838.4 | 571.9 | 328.8 | 328.1 | 390.8 | 622.7 | 642.6 |
| POPDC2 | 100.8 | 125.2 | 99.1 | 95.7 | 87.6 | 92 | 110.6 | 112.2 |
| POPDC3 | 96.2 | 110.8 | 90.1 | 92.5 | 90.3 | 96.7 | 100.7 | 126.3 |
| POR | 249.3 | 346.5 | 229.9 | 226.5 | 176.2 | 288 | 242.7 | 325.1 |
| PORCN | 87.9 | 111.3 | 89.1 | 86.8 | 86.7 | 106.6 | 84.8 | 101.7 |
| PORCN | 146.6 | 171.4 | 91.3 | 97.6 | 87.1 | 91.4 | 153.6 | 165.1 |
| POSTN | 91 | 94 | 93.8 | 84.9 | 81.7 | 91 | 94.1 | 100 |
| POT1 | 100.8 | 114 | 93.3 | 87.8 | 89.8 | 95.8 | 107.2 | 135.8 |
| POT1 | 342 | 460 | 178.6 | 157.8 | 126.1 | 243.2 | 234 | 319.7 |
| POT1 | 87.3 | 87 | 90.4 | 95.9 | 90.7 | 93.7 | 80.9 | 95 |
| POTE15 | 106 | 119.3 | 92.6 | 95.1 | 85.6 | 93.6 | 104.3 | 131.4 |
| POTE2 | 82.5 | 96.2 | 88.3 | 81.3 | 85.2 | 75.7 | 78.1 | 94.2 |
| POTE8 | 88.1 | 101.3 | 104.4 | 92.8 | 89.7 | 95.4 | 97.5 | 121.1 |
| POU1F1 | 77.3 | 83.5 | 92.5 | 85.2 | 79.9 | 81.7 | 74 | 80.1 |
| POU2AF1 | 109.8 | 139.3 | 89.6 | 81.2 | 86 | 92.9 | 103.1 | 117.4 |
| POU2F1 | 161.9 | 232.1 | 122.7 | 143.7 | 147.2 | 168.2 | 158.5 | 195 |
| POU2F2 | 90.7 | 101.5 | 86.9 | 79 | 84.4 | 89 | 92.9 | 99.1 |
| POU2F3 | 91.1 | 114.7 | 100.4 | 92.3 | 89.5 | 98.2 | 100.9 | 100.8 |
| POU3F1 | 77.9 | 87.9 | 92.4 | 80.3 | 82.8 | 89.7 | 87.3 | 93.3 |
| POU3F2 | 132.4 | 142.4 | 91 | 87 | 82.5 | 96.9 | 126.8 | 122 |
| POU3F3 | 89.8 | 86.1 | 84 | 82.9 | 73.2 | 81.5 | 94.3 | 98.6 |
| POU3F4 | 98.4 | 96.8 | 93 | 92.6 | 99.4 | 85.5 | 94.7 | 93.2 |
| POU4F1 | 130.9 | 154.8 | 140.9 | 112.1 | 104.8 | 113.4 | 105.3 | 139.1 |
| POU4F2 | 113.3 | 141.9 | 122.1 | 341.6 | 249 | 354.5 | 91.5 | 91.2 |
| POU4F3 | 90.9 | 93.8 | 109.6 | 98.1 | 82.2 | 95.3 | 84.7 | 88.6 |
| POU5F1 | 81.5 | 87.5 | 94.3 | 84.1 | 91.6 | 82.5 | 70.2 | 85.5 |
| POU5F1P1 | 85.4 | 110.9 | 84.3 | 88.2 | 84.3 | 84.6 | 89.4 | 96.2 |
| POU6F1 | 107.9 | 135.5 | 103.2 | 100.9 | 100.7 | 100.5 | 106.7 | 120.8 |
| POU6F2 | 72.4 | 87.7 | 85.4 | 80.1 | 84.4 | 77.4 | 74.7 | 77.8 |
| PP2447 | 5864 | 6158.3 | 4072.2 | 3651.8 | 3734.1 | 4445.5 | 3558.2 | 3412.7 |
| PP8961 | 83 | 110.5 | 84.8 | 89.7 | 89.2 | 88.2 | 82.2 | 84.4 |
| PPA1 | 11244.7 | 13186.7 | 7360.3 | 6769.2 | 5151.3 | 7985.4 | 10213.8 | 12810.7 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| PPA2 | 5172 | 6306.4 | 1880.6 | 1275.1 | 892.5 | 1612.8 | 4546.8 | 5703.7 |
| PPA2 | 2471.1 | 2625.5 | 1353.6 | 2723.3 | 2898.3 | 1725 | 2119 | 2437.8 |
| PPA2 | 76.9 | 97.2 | 88.5 | 84.1 | 80.6 | 78.1 | 83.2 | 93.7 |
| PPAN | 456.8 | 636.8 | 406.6 | 276.8 | 238.2 | 332.4 | 397.8 | 458.3 |
| PPAN-P2RY | 164.9 | 180.6 | 114.9 | 100.8 | 104.2 | 98.7 | 144.9 | 169.4 |
| PPAP2A | 84.5 | 98.5 | 90.9 | 84.5 | 85 | 86.9 | 82.1 | 94.1 |
| PPAP2A | 105.1 | 124.2 | 114.8 | 106.2 | 101.8 | 94.4 | 104.9 | 100.9 |
| PPAP2A | 101 | 101.9 | 108.2 | 109.5 | 100.1 | 109.1 | 101.1 | 128.1 |
| PPAP2B | 114.3 | 119.5 | 105.3 | 91.5 | 93.1 | 92.1 | 107.5 | 137.8 |
| PPAP2B | 77.5 | 90.6 | 104.2 | 85.8 | 81 | 84.8 | 76.5 | 83.1 |
| PPAP2C | 132.2 | 137 | 91.1 | 90.7 | 93.9 | 76.2 | 107.8 | 146.7 |
| PPAP2C | 100.3 | 138.5 | 101.5 | 88.4 | 91.5 | 98.2 | 107.1 | 126.1 |
| PPAP2C | 81.2 | 94.2 | 105.6 | 103 | 90.9 | 96.8 | 82.9 | 83.8 |
| PPAPDC1A | 108.6 | 131.4 | 81 | 73.5 | 82.8 | 93.6 | 106.8 | 118.4 |
| PPAPDC1B | 470.5 | 554.2 | 176.2 | 121.5 | 127 | 139.9 | 370.5 | 530.8 |
| PPAPDC2 | 447.9 | 590.3 | 292.2 | 290.8 | 230.1 | 369.3 | 344.9 | 661.1 |
| PPAPDC3 | 187 | 220.2 | 169.6 | 126.3 | 107.4 | 130.2 | 199 | 267.7 |
| PPARA | 111.3 | 139.5 | 105.5 | 99.1 | 105.5 | 110.4 | 132.7 | 138 |
| PPARA | 120.7 | 134.7 | 92.3 | 95 | 84.5 | 88.7 | 125 | 142.9 |
| PPARBP | 581.9 | 753.4 | 158.8 | 238.5 | 186.3 | 228.1 | 632.1 | 956.7 |
| PPARD | 101.6 | 109.5 | 98.4 | 94.2 | 96.9 | 105.8 | 91 | 115.7 |
| PPARD | 107.3 | 139.2 | 151.6 | 163.9 | 147.8 | 223.7 | 124.5 | 149.2 |
| PPARG | 100.9 | 105.3 | 100.7 | 91.8 | 93 | 91.9 | 89.7 | 99.5 |
| PPARG | 886.6 | 1123 | 561.8 | 1062.7 | 706.1 | 1299.6 | 706 | 829.6 |
| PPARG | 192.9 | 226.5 | 105.8 | 124.8 | 115.6 | 144.8 | 174.9 | 263 |
| PPARG | 111.6 | 133.5 | 90.3 | 82.5 | 76.9 | 86.9 | 106.2 | 137.7 |
| PPARGC1A | 79.2 | 91.8 | 96.8 | 95.5 | 85.1 | 96.8 | 84.2 | 92.6 |
| PPARGC1B | 182.2 | 206.6 | 142.6 | 169.1 | 125.3 | 131.9 | 152 | 261.5 |
| PPAT | 688.7 | 891.3 | 423.7 | 335.1 | 229.5 | 361.6 | 534.4 | 1018.8 |
| PPBP | 91.7 | 99.1 | 91 | 91.6 | 82.6 | 106 | 102 | 116.5 |
| PPCDC | 96.7 | 116.9 | 104.1 | 94.7 | 83.6 | 98.3 | 104 | 118.9 |
| PPCS | 2913.1 | 3079.4 | 1307.5 | 1906.2 | 1415.7 | 2505.3 | 2119.7 | 4636.5 |
| PPCS | 5477.4 | 5805.8 | 2878.7 | 4668.5 | 3135.4 | 5323.7 | 4389.3 | 6425.9 |
| PPEF1 | 92.5 | 103 | 84.7 | 89.8 | 83.9 | 87.3 | 97.5 | 111.2 |
| PPEF1 | 89.1 | 100.1 | 85.9 | 97.6 | 87.2 | 97.7 | 87.3 | 99.5 |
| PPEF2 | 87.2 | 96.9 | 87.3 | 87.5 | 76.8 | 82.7 | 87.6 | 89.9 |
| PPFIA1 | 1016 | 1289.3 | 594.9 | 651.1 | 597 | 1026 | 981.5 | 1383.7 |
| PPFIA1 | 197.4 | 224.4 | 165.2 | 146.3 | 141 | 162.7 | 168.4 | 182.6 |
| PPFIA1 | 290.3 | 377.6 | 181.8 | 157.4 | 135.2 | 209.2 | 257.5 | 335.4 |
| PPFIA2 | 85.7 | 100.5 | 90.1 | 88.4 | 84.5 | 103.4 | 92 | 97.9 |
| PPFIA3 | 121.2 | 118.2 | 92.3 | 97.4 | 87.2 | 95.3 | 103.3 | 121.8 |
| PPFIA4 | 137.6 | 145.6 | 155.3 | 129.3 | 146.2 | 166.9 | 110.6 | 116.6 |
| PPFIBP1 | 92.6 | 105.7 | 93.2 | 96.1 | 87.7 | 84.5 | 88.9 | 91.7 |
| PPFIBP1 | 147.6 | 158.5 | 104.2 | 103.8 | 99 | 88.1 | 120.2 | 145.4 |
| PPFIBP1 | 93.6 | 101.7 | 94.2 | 79.7 | 85.3 | 85.3 | 103.2 | 92.4 |
| PPFIBP2 | 459.7 | 568.1 | 327.4 | 363.5 | 402.3 | 471.3 | 347.5 | 350.3 |
| PPGB | 557.1 | 669.4 | 414.7 | 424.1 | 329.8 | 479.8 | 516 | 792 |
| PPHLN1 | 1682.5 | 2159.5 | 870 | 753.7 | 609.3 | 811.7 | 1664.9 | 2320.4 |
| PPHLN1 | 107.3 | 121.7 | 113.3 | 110.8 | 108.9 | 113.4 | 101.7 | 114.1 |
| PPHLN1 | 124.8 | 136 | 119.7 | 101 | 121.4 | 124.7 | 105.7 | 121.1 |

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|---------|--------|---------|--------|--------|--------|--------|--------|--------|
| PPHLN1 | 1748.1 | 2564.2 | 1280 | 1099.7 | 812.2 | 1105.4 | 1674.5 | 2084.7 |
| PPIA | 471.2 | 718.7 | 152.1 | 132.9 | 99.2 | 143.5 | 354.3 | 481 |
| PPIB | 197.6 | 229.9 | 119.9 | 116.2 | 123 | 142.5 | 199.1 | 266.3 |
| PPIC | 2134.6 | 2683.5 | 1254 | 1923.1 | 1416 | 2461.2 | 1927 | 3105.4 |
| PPID | 91 | 106.6 | 89.4 | 78 | 86.7 | 87 | 104.3 | 97.7 |
| PPIE | 3208.7 | 4259.8 | 1705.4 | 1367.3 | 1155.4 | 1977.2 | 2640.1 | 3506.2 |
| PPIE | 129.9 | 133 | 121.3 | 102.5 | 100.9 | 106.5 | 117.3 | 136.5 |
| PPIF | 176.3 | 227.4 | 145.5 | 146.9 | 112.3 | 126.4 | 206.6 | 294.7 |
| PPIG | 104.8 | 115.1 | 102 | 86.3 | 89.2 | 105.4 | 95.5 | 149.9 |
| PPIH | 8457.8 | 10157.2 | 4553.1 | 2630 | 2256.2 | 3344.2 | 7410 | 9776.5 |
| PPIL1 | 1579 | 2074.8 | 1050.4 | 844.6 | 479.7 | 1049.6 | 1174.4 | 2752.3 |
| PPIL2 | 95.3 | 111.4 | 91.7 | 86.9 | 81.6 | 88.2 | 86.2 | 95.8 |
| PPIL2 | 89.2 | 110.7 | 107.5 | 101.1 | 107.6 | 96.9 | 88.8 | 98.6 |
| PPIL2 | 81.6 | 98.1 | 88.6 | 96.5 | 79.7 | 80.2 | 95.9 | 100.6 |
| PPIL3 | 148 | 162.9 | 104.8 | 91.3 | 88.8 | 85.6 | 124.2 | 145.1 |
| PPIL3 | 94.4 | 126.9 | 93.3 | 78.9 | 77.1 | 84.5 | 104.7 | 108.9 |
| PPIL3 | 3542.3 | 4686.8 | 2174.8 | 1904.8 | 1500.6 | 2216.2 | 3184 | 3879.6 |
| PPIL3 | 149.9 | 190.9 | 117.6 | 116 | 113.6 | 122.4 | 157.8 | 195.2 |
| PPIL4 | 82.9 | 98.9 | 92.9 | 90 | 83.7 | 92.8 | 87.3 | 95.7 |
| PPIL5 | 2928.3 | 3679 | 1799.4 | 1085.4 | 802.2 | 1183.7 | 2332.5 | 3858.4 |
| PPIL5 | 94.9 | 107.2 | 89.9 | 92.3 | 90.2 | 78.8 | 91.3 | 88.9 |
| PPIL5 | 175.5 | 214.3 | 108.9 | 92.9 | 95.3 | 101.8 | 136.6 | 242.7 |
| PPIL6 | 111.2 | 130.2 | 106.3 | 86.5 | 85.5 | 85.1 | 112 | 135.9 |
| PPL | 96.6 | 120.2 | 96.8 | 84.2 | 77.8 | 82.8 | 103 | 105.6 |
| PPM1A | 113.8 | 103.6 | 90.9 | 90 | 84.3 | 85.6 | 96.2 | 124.4 |
| PPM1A | 316.3 | 480.2 | 172.8 | 189.9 | 178.7 | 181.1 | 271.1 | 341.6 |
| PPM1A | 138.7 | 165.3 | 118 | 96.8 | 86.8 | 113.5 | 122.2 | 150 |
| PPM1A | 214.1 | 231 | 127.2 | 124.6 | 115.2 | 115.9 | 152.5 | 206.3 |
| PPM1B | 149.5 | 197.9 | 91.7 | 98.4 | 82.7 | 73.3 | 138.7 | 162.3 |
| PPM1B | 1083.2 | 1378.7 | 690.2 | 929.6 | 795.7 | 1236.8 | 1005.3 | 1550.6 |
| PPM1B | 121.7 | 123 | 99 | 156.5 | 162.1 | 103.7 | 122.6 | 115.4 |
| PPM1B | 150.6 | 164.3 | 104.8 | 109.1 | 110.6 | 108.5 | 130 | 223 |
| PPM1B | 80.5 | 81.9 | 84.1 | 81.5 | 85.3 | 90.4 | 75.7 | 80.3 |
| PPM1D | 475.8 | 651 | 233 | 214.8 | 193.3 | 275.7 | 462 | 648.4 |
| PPM1E | 166 | 235.3 | 161.8 | 143.9 | 134.7 | 170.2 | 152.6 | 184.3 |
| PPM1F | 1090.6 | 1390.7 | 1153.8 | 940.8 | 805.6 | 867.1 | 1029.5 | 636.6 |
| PPM1G | 257.9 | 376.2 | 154.2 | 102.4 | 103.3 | 96.4 | 165.1 | 211.7 |
| PPM1G | 8312.5 | 10434.2 | 5645.2 | 4643.8 | 4141.8 | 4748 | 6387.6 | 6497.1 |
| PPM1J | 90.3 | 98.9 | 102.6 | 89.2 | 79.4 | 81.4 | 85.4 | 94.8 |
| PPM1K | 222.3 | 250.4 | 150.9 | 203.1 | 212.6 | 185 | 249.3 | 327.4 |
| PPM1L | 92.8 | 107.5 | 84.7 | 89.4 | 98.3 | 85 | 95.6 | 100.9 |
| PPM1M | 261.8 | 287.1 | 251.2 | 190.8 | 171.6 | 214.4 | 208.2 | 261.4 |
| PPM2C | 99.7 | 127.6 | 105.8 | 97.5 | 86.4 | 106.3 | 109.4 | 150.1 |
| PPME1 | 352.7 | 425.7 | 275.3 | 244 | 197.9 | 301.6 | 336.3 | 535.3 |
| PPOX | 415.6 | 450.7 | 310.4 | 217.9 | 218.4 | 278 | 277.2 | 287.1 |
| PPP1CA | 451.7 | 718.6 | 374.3 | 270.9 | 231.8 | 305.4 | 480.8 | 663.6 |
| PPP1CB | 1126.5 | 1355.6 | 581.8 | 728.8 | 544.5 | 862 | 784.4 | 1608.2 |
| PPP1CC | 7764.5 | 9916.2 | 3559.7 | 3817.4 | 3553 | 5714.6 | 6152.5 | 6938 |
| PPP1R10 | 246.2 | 323.6 | 182.7 | 198.6 | 184.3 | 257.5 | 205.5 | 365.4 |
| PPP1R11 | 1449.9 | 1714.6 | 874.6 | 773.3 | 583 | 775.2 | 1306.7 | 1422.1 |

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| PPP1R12A | 244.5 | 262.6 | 130.6 | 134.7 | 145.1 | 192.4 | 191.9 | 364.7 |
| PPP1R12B | 288 | 358.1 | 196.8 | 185.7 | 162.7 | 176.4 | 265.7 | 329.7 |
| PPP1R12C | 193.7 | 214.9 | 121.5 | 109.4 | 131 | 154.4 | 174.4 | 213.9 |
| PPP1R13B | 182.4 | 219.7 | 166.1 | 145.1 | 152.1 | 164.7 | 180.7 | 194.5 |
| PPP1R13L | 122.2 | 133.9 | 108.2 | 94.1 | 99.9 | 106.5 | 120.3 | 138.4 |
| PPP1R14A | 167 | 183.8 | 147.2 | 114.9 | 122 | 107.7 | 146 | 170.1 |
| PPP1R14B | 2852.9 | 3311.1 | 3294.1 | 2403.7 | 1983 | 2589 | 2202.7 | 3579.3 |
| PPP1R14C | 159.8 | 209.1 | 146.9 | 136.8 | 124.1 | 157.4 | 200.2 | 321.5 |
| PPP1R14D | 150.2 | 182.1 | 110.2 | 115.9 | 101.8 | 104.8 | 138.7 | 162.9 |
| PPP1R15A | 870.4 | 1060.3 | 539.2 | 452.9 | 489.5 | 577.8 | 1189 | 1717.6 |
| PPP1R15B | 114.8 | 115.6 | 115.3 | 91.4 | 84.6 | 100 | 110.5 | 159.1 |
| PPP1R16A | 496.5 | 610.2 | 231.1 | 152.5 | 116 | 146.8 | 364.8 | 360.1 |
| PPP1R16B | 108 | 119.7 | 129.5 | 115.2 | 105.7 | 136.1 | 109.7 | 137.5 |
| PPP1R1A | 95.6 | 96.1 | 97.6 | 94.4 | 84.6 | 88.7 | 88.4 | 96 |
| PPP1R1B | 100.4 | 103.7 | 90.6 | 84.1 | 88.1 | 85.9 | 98 | 112.2 |
| PPP1R1B | 79 | 91.4 | 92.6 | 100.8 | 96.5 | 104.9 | 92.1 | 88.1 |
| PPP1R1B | 127.4 | 149.4 | 113.9 | 117.9 | 87.7 | 103.1 | 134.6 | 150.9 |
| PPP1R1C | 96.4 | 109.9 | 88.2 | 94 | 78 | 90.1 | 98.6 | 104.9 |
| PPP1R2 | 305.3 | 393.3 | 262.5 | 245.7 | 197.2 | 277 | 268 | 422.8 |
| PPP1R2P3 | 82.4 | 97.9 | 100.4 | 95.1 | 80.7 | 91.1 | 89.4 | 102.3 |
| PPP1R2P9 | 86.8 | 96.8 | 95.3 | 88.7 | 77.5 | 86.4 | 92.8 | 105.8 |
| PPP1R3A | 87.4 | 87.8 | 94.8 | 86.5 | 94.5 | 91.1 | 85.4 | 92 |
| PPP1R3B | 82.2 | 97.4 | 95 | 82.6 | 77.9 | 79.5 | 92.2 | 93.1 |
| PPP1R3C | 120.8 | 144.2 | 116.1 | 108.8 | 95.8 | 129.5 | 117.2 | 132.9 |
| PPP1R3D | 257.7 | 326.3 | 194.6 | 201.8 | 147.8 | 211.7 | 212.5 | 355.9 |
| PPP1R3F | 119.2 | 139.8 | 102.9 | 106.4 | 95.5 | 107.5 | 118.4 | 148.4 |
| PPP1R7 | 1038 | 1317.3 | 558.8 | 549.7 | 460 | 674.9 | 963.4 | 1256.4 |
| PPP1R8 | 540.2 | 686.4 | 304.5 | 250.9 | 217.5 | 288.1 | 450.5 | 565.4 |
| PPP1R8 | 179.8 | 236.6 | 114.7 | 108 | 89.8 | 123.6 | 162.9 | 218.6 |
| PPP1R8 | 88.3 | 95.6 | 104.2 | 81.6 | 82 | 89.1 | 97.3 | 105.9 |
| PPP1R9A | 96.6 | 90.6 | 112.4 | 102.6 | 100.6 | 99.3 | 85.9 | 84 |
| PPP1R9B | 106.6 | 120 | 104.8 | 115.2 | 98.5 | 111.2 | 107.6 | 133.4 |
| PPP2CA | 2293.9 | 3145.3 | 1578.2 | 1980.6 | 1412.5 | 2156.6 | 1847.1 | 2868.5 |
| PPP2CB | 228.2 | 234.2 | 136.5 | 114.5 | 129.6 | 103.5 | 199.6 | 286.6 |
| PPP2CB | 288.4 | 353.8 | 173 | 148.2 | 123.9 | 213.8 | 329.8 | 720.9 |
| PPP2R1A | 2951.7 | 3807.3 | 2491.3 | 1915.4 | 1419.5 | 3031.3 | 2329.1 | 3669.7 |
| PPP2R1B | 117 | 148.8 | 113.7 | 104.9 | 104.7 | 103.1 | 112.2 | 132.1 |
| PPP2R1B | 197.8 | 266.3 | 113.1 | 104.4 | 95.9 | 105.9 | 162.2 | 225.4 |
| PPP2R1B | 488.7 | 660.4 | 209.8 | 177 | 142.7 | 223 | 408.9 | 536.5 |
| PPP2R2A | 1841.8 | 2362.8 | 1797.6 | 1209.9 | 885.8 | 1415 | 1854.9 | 2814.3 |
| PPP2R2B | 422.2 | 484.6 | 208.4 | 214 | 204.1 | 224 | 406.6 | 443.9 |
| PPP2R2B | 81.4 | 88.7 | 85 | 85.8 | 81.4 | 76.8 | 73.8 | 82.2 |
| PPP2R2B | 99.2 | 110.5 | 93.5 | 85.5 | 91.2 | 85 | 99.3 | 106.4 |
| PPP2R2B | 117.3 | 130.6 | 98.5 | 111.1 | 92.1 | 89.3 | 133.4 | 130.1 |
| PPP2R2B | 120.6 | 149.7 | 122.7 | 129.3 | 106.1 | 127.2 | 129.2 | 149.3 |
| PPP2R2B | 78.2 | 87.7 | 95.6 | 82.5 | 77.7 | 82.6 | 87 | 106 |
| PPP2R2C | 87.9 | 103.1 | 92.5 | 93.6 | 80.5 | 83.4 | 108.7 | 101.5 |
| PPP2R2C | 88.7 | 98.4 | 110.7 | 91.8 | 90.3 | 98.4 | 87.6 | 94.3 |
| PPP2R2C | 102.9 | 112 | 80.8 | 91 | 71.1 | 78.4 | 102.6 | 116.8 |
| PPP2R2C | 96.2 | 111.1 | 90.8 | 94.6 | 85.4 | 91.2 | 101.6 | 106 |

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|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| PPP2R2D | 304.1 | 394.1 | 149.2 | 100.5 | 105.1 | 112 | 247.2 | 334.1 |
| PPP2R2D | 94.9 | 113.4 | 108.9 | 94.6 | 89.8 | 95.6 | 91.3 | 104.1 |
| PPP2R2D | 588 | 774.3 | 394.5 | 277.3 | 256.4 | 325.9 | 531.2 | 797.2 |
| PPP2R3A | 89.7 | 100.6 | 95.9 | 93.1 | 94.2 | 97.7 | 89.4 | 97.3 |
| PPP2R3A | 97 | 111.1 | 107.9 | 94.9 | 79.6 | 84.9 | 101.2 | 109.4 |
| PPP2R3A | 103.4 | 124 | 114.7 | 105.2 | 112.6 | 109.2 | 89.4 | 142.9 |
| PPP2R3B | 132.3 | 166.8 | 122.4 | 112.3 | 110.2 | 120 | 125.6 | 175 |
| PPP2R3B | 120.6 | 135.1 | 127.1 | 125.4 | 119.4 | 162.1 | 118.4 | 133 |
| PPP2R3B | 86.9 | 91 | 108.2 | 101.9 | 114.3 | 183.4 | 83.8 | 99.1 |
| PPP2R3C | 2057.5 | 2408.3 | 817.8 | 628.1 | 455.9 | 708.3 | 1801.5 | 2515.7 |
| PPP2R4 | 96.3 | 101.5 | 107.1 | 102.2 | 86.7 | 90.1 | 90.4 | 105.6 |
| PPP2R4 | 110.7 | 141.6 | 93.4 | 85.9 | 86 | 80.4 | 104.1 | 134.2 |
| PPP2R4 | 124.4 | 134.9 | 107.1 | 107.2 | 95.4 | 112.9 | 124.4 | 130.3 |
| PPP2R4 | 1167.5 | 1344.4 | 852.2 | 505.3 | 403.6 | 449.3 | 1024 | 1401.9 |
| PPP2R5A | 710.4 | 1037.5 | 687.3 | 506.7 | 423.5 | 725.8 | 678.5 | 1021.3 |
| PPP2R5B | 105.8 | 129 | 109.5 | 115.9 | 100.7 | 121.8 | 104.5 | 144.5 |
| PPP2R5C | 2086.6 | 2921.1 | 1460.3 | 967.7 | 797.3 | 1364.8 | 1815.6 | 2353.1 |
| PPP2R5C | 193.5 | 217.9 | 116.3 | 123.5 | 100.5 | 100.7 | 148.3 | 186.8 |
| PPP2R5C | 128.8 | 131.7 | 119.8 | 105.7 | 95.6 | 99.8 | 118.5 | 173.8 |
| PPP2R5D | 248 | 341.2 | 131.9 | 110 | 115.3 | 93.7 | 218 | 285.5 |
| PPP2R5D | 166 | 230 | 195.7 | 193.8 | 159.6 | 221.8 | 172.4 | 294.3 |
| PPP2R5D | 533.4 | 659.6 | 436.5 | 291 | 236.9 | 398.8 | 521.4 | 1184.2 |
| PPP2R5E | 1915.7 | 2552.7 | 1304.1 | 1300.9 | 935 | 1409.9 | 1517.3 | 2064.9 |
| PPP3CA | 353.3 | 441.5 | 156.7 | 151 | 128.7 | 169.6 | 367.9 | 559.5 |
| PPP3CB | 903.6 | 1089.6 | 965.5 | 822.9 | 597 | 919.2 | 773.3 | 1246 |
| PPP3CC | 465.4 | 593.5 | 285.3 | 188.4 | 203.3 | 262.8 | 420.5 | 651.8 |
| PPP3R1 | 1243.4 | 2196.6 | 1156.4 | 1081.5 | 731.4 | 1061 | 1280.7 | 1766.3 |
| PPP3R2 | 96.2 | 111.7 | 101.5 | 92.3 | 86.9 | 94.5 | 90.8 | 85.7 |
| PPP4R1 | 768 | 940.6 | 414.7 | 449.7 | 359.1 | 600.1 | 715.6 | 1380.6 |
| PPP4R1 | 415.6 | 539.3 | 315.7 | 268.5 | 265.6 | 436.3 | 369.2 | 721.2 |
| PPP4R1L | 100.1 | 115.8 | 94 | 90.6 | 80.8 | 83.6 | 109.7 | 133.8 |
| PPP4R2 | 126.6 | 127.3 | 95.1 | 91.6 | 88.8 | 103.3 | 103.4 | 148.3 |
| PPP5C | 121.3 | 133.7 | 93.2 | 88.6 | 87.1 | 89.5 | 104.2 | 154 |
| PPP6C | 4557.3 | 5990.4 | 2286.4 | 2111.5 | 1460.5 | 2646 | 4606.5 | 6489.3 |
| PPRC1 | 675.1 | 793.7 | 616.8 | 437.8 | 308.2 | 465.8 | 529.6 | 569.7 |
| PPT1 | 24887.1 | 26364.9 | 14382.4 | 14403.6 | 11392.9 | 13626 | 24558.4 | 27677.1 |
| PPT2 | 86.1 | 98.6 | 90.2 | 91.5 | 85.1 | 83.9 | 86.2 | 91.2 |
| PPT2 | 90.9 | 105.7 | 95.5 | 95.9 | 101.9 | 113.1 | 90.7 | 98.3 |
| PPWD1 | 849 | 1015.3 | 484.1 | 452.4 | 404.4 | 783.3 | 563 | 881.8 |
| PPY | 93.8 | 104.5 | 97.3 | 88.8 | 81.1 | 84.3 | 91.8 | 98.8 |
| PPY2 | 99.1 | 129.3 | 85.3 | 81 | 72.7 | 90 | 107.5 | 137.1 |
| PPYR1 | 83.3 | 90.4 | 91 | 85.7 | 86.8 | 80.2 | 79.6 | 90.6 |
| PQBP1 | 361.1 | 497.8 | 148.3 | 143.5 | 123.6 | 180.6 | 425.6 | 446.6 |
| PQBP1 | 1248 | 1458.8 | 716.9 | 586.9 | 517 | 726.1 | 1219.5 | 1449 |
| PQBP1 | 139.3 | 159.4 | 107.7 | 104.7 | 104.6 | 101 | 113.1 | 135.5 |
| PQLC1 | 2828.5 | 3576.8 | 2431.3 | 2478.4 | 2060.9 | 2561.7 | 2448.7 | 3271.5 |
| PQLC2 | 156.9 | 172.6 | 116.9 | 106.1 | 101.6 | 101.4 | 139.1 | 172.7 |
| PQLC2 | 100.9 | 118 | 92.2 | 86.5 | 75.5 | 83 | 100.7 | 123.4 |
| PQLC3 | 1326.7 | 1877.8 | 826.2 | 1212.1 | 844.3 | 1674.4 | 1035.6 | 1896.2 |
| PRAC | 97.2 | 110 | 98.4 | 89.5 | 85.5 | 85.1 | 93.8 | 103.1 |

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| PRAF2 | 98.1 | 110 | 95.7 | 78.9 | 86.8 | 84.3 | 107.4 | 112.9 |
| PRAM1 | 219.7 | 236.4 | 258.9 | 259.5 | 193.5 | 255.4 | 127.6 | 183.1 |
| PRAME | 136.9 | 145.3 | 108.2 | 89.6 | 88.6 | 90.4 | 101.1 | 131.1 |
| PRAME | 594.3 | 760.1 | 477.9 | 310.4 | 286.3 | 368 | 452.9 | 533.8 |
| PRAME | 735.7 | 1026.3 | 574.6 | 440.3 | 409 | 697.4 | 609.8 | 905.3 |
| PRAMEF1 | 72 | 78.3 | 104.6 | 98.6 | 87.4 | 91.8 | 74 | 77 |
| PRAMEF10 | 124 | 136.3 | 112.2 | 102.7 | 101.8 | 101.4 | 115.5 | 135.3 |
| PRAMEF10 | 86.7 | 87.8 | 82.6 | 77.4 | 78.4 | 75.9 | 80.9 | 88 |
| PRAMEF10 | 84.9 | 83.2 | 86.5 | 79.4 | 76.7 | 83.4 | 86.2 | 79.4 |
| PRAMEF16 | 79.1 | 88 | 104 | 86.7 | 85.4 | 92.3 | 83.4 | 78.1 |
| PRAMEF4 | 110.5 | 127.5 | 89.8 | 83.3 | 79.9 | 86.6 | 103.6 | 124.9 |
| PRAMEF5 | 188.1 | 204.3 | 145.1 | 124.1 | 130.3 | 135.4 | 184.7 | 199.9 |
| PRAMEF6 | 81.6 | 83.3 | 104.9 | 93.6 | 91.8 | 90.5 | 85.6 | 81.9 |
| PRAMEF7 | 89.5 | 92.4 | 94 | 92.8 | 89.5 | 92.3 | 87.7 | 101.6 |
| PRAMEF8 | 92.3 | 99 | 102 | 96.4 | 93.7 | 93.9 | 97 | 103.5 |
| PRAMEF9 | 115.3 | 140.1 | 84.2 | 84.6 | 80.5 | 83.9 | 100.3 | 128.3 |
| PRAP1 | 88.8 | 90.7 | 87.8 | 93.6 | 87.7 | 99.2 | 96.8 | 97.7 |
| PRB1 | 113.1 | 130.3 | 95.6 | 87.3 | 94.7 | 90.3 | 116.2 | 127.9 |
| PRB1 | 117 | 113.9 | 122.3 | 103.6 | 104.8 | 104.5 | 101.3 | 113.6 |
| PRB2 | 109.2 | 121.8 | 105.7 | 94 | 99.9 | 92.8 | 115.8 | 121.6 |
| PRB3 | 105.5 | 125.7 | 104.9 | 107.3 | 98.2 | 98.9 | 99.5 | 97.8 |
| PRB4 | 90.6 | 103.2 | 91.2 | 86.2 | 79.4 | 92.3 | 94.1 | 94.4 |
| PRC1 | 3032.2 | 3566.9 | 2805.2 | 3026.9 | 2403.5 | 4065.3 | 2610.7 | 4848.5 |
| PRCC | 227 | 241.2 | 167.6 | 138.6 | 129.7 | 184 | 174.5 | 294.3 |
| PRCC | 431.7 | 477.2 | 374.8 | 339.7 | 273.3 | 348.1 | 360.3 | 478.2 |
| PRCP | 2447.4 | 3231.2 | 1556.4 | 2237.3 | 1600.1 | 2026.3 | 2414.8 | 3262.5 |
| PRCP | 724.7 | 1020 | 406.7 | 543.8 | 385.6 | 607.4 | 691.5 | 1145.6 |
| PRDM1 | 167.1 | 203.3 | 98.5 | 90.8 | 93 | 94.3 | 149.2 | 164.7 |
| PRDM1 | 87.2 | 93.5 | 86 | 92.4 | 87.1 | 97.9 | 91.5 | 112.6 |
| PRDM1 | 120 | 117.7 | 91.5 | 103.1 | 107.2 | 84.9 | 101.4 | 122.4 |
| PRDM1 | 249.3 | 281.7 | 162.2 | 478.1 | 419.1 | 642.6 | 336.6 | 516.3 |
| PRDM10 | 353.6 | 512.6 | 286.9 | 372.6 | 295.8 | 489.8 | 393.1 | 518.5 |
| PRDM11 | 88.2 | 88.7 | 96.3 | 81.8 | 81.9 | 88.8 | 87.4 | 84.2 |
| PRDM12 | 87.5 | 105.2 | 79.6 | 78.2 | 81.5 | 82.9 | 90.4 | 99.8 |
| PRDM13 | 111 | 137.5 | 92.5 | 91.1 | 90.3 | 79.3 | 101.7 | 124.5 |
| PRDM14 | 82.5 | 93.3 | 82.5 | 81.1 | 92 | 90.3 | 78.6 | 87.9 |
| PRDM15 | 90.4 | 102.2 | 100.5 | 89.8 | 88.6 | 90.4 | 92 | 97.1 |
| PRDM16 | 84.7 | 99.7 | 98.1 | 88.3 | 84.7 | 76.8 | 97 | 98.1 |
| PRDM16 | 75.7 | 85.4 | 84.3 | 87.5 | 84.4 | 86.6 | 72.7 | 71.9 |
| PRDM16 | 87.6 | 85.4 | 95.7 | 90.5 | 86.3 | 85.3 | 80.2 | 92.3 |
| PRDM2 | 106.3 | 123.6 | 119.2 | 120.1 | 103.2 | 105.7 | 106.1 | 122.1 |
| PRDM2 | 81.3 | 91.5 | 87.6 | 90.7 | 79.4 | 79.1 | 82.6 | 87.9 |
| PRDM4 | 383.9 | 493.4 | 195.5 | 218.2 | 181.9 | 242.1 | 300.4 | 370 |
| PRDM5 | 86.2 | 100.6 | 96.6 | 87.9 | 94.2 | 94.6 | 88.9 | 100.4 |
| PRDM7 | 88.7 | 100.2 | 95.2 | 98.2 | 94.7 | 88.3 | 85.3 | 86.8 |
| PRDM8 | 227.7 | 296.6 | 190.3 | 187.5 | 151 | 237.1 | 215.3 | 304.2 |
| PRDM9 | 127.6 | 133.6 | 131 | 104.6 | 97.9 | 121.4 | 110.3 | 129.3 |
| PRDX1 | 9957.1 | 12541.5 | 8034.1 | 7651.4 | 5982 | 7064.6 | 11176.8 | 14699.2 |
| PRDX1 | 6400.8 | 8554.7 | 2857.6 | 2824.1 | 2034.7 | 3085.8 | 6424.4 | 9552.7 |
| PRDX2 | 82 | 89.3 | 85.5 | 89.9 | 91.6 | 89.5 | 87.4 | 83.9 |

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|----------|--------|---------|--------|--------|--------|--------|--------|--------|
| PRDX2 | 3122.1 | 3943.4 | 1518.8 | 694.2 | 732.9 | 707.8 | 2869.2 | 2952.3 |
| PRDX3 | 7860.7 | 10730.3 | 5060.5 | 3418.1 | 2542.2 | 4190.8 | 6102.4 | 7820.1 |
| PRDX4 | 6718.9 | 9069.3 | 3248.8 | 2488.3 | 2169.9 | 2720.8 | 5899.3 | 7778.8 |
| PRDX5 | 2789.9 | 3578.2 | 2060.9 | 2179.5 | 2231.8 | 3084.8 | 2981.1 | 3036.2 |
| PRDX5 | 7014.7 | 8389.8 | 5583.9 | 5828.2 | 4788.4 | 9281.6 | 7139.6 | 9157 |
| PRDX5 | 6595.1 | 7985.2 | 5540 | 5967.5 | 5285.3 | 7507.8 | 7114.7 | 9294.6 |
| PRDX6 | 6739.8 | 8712.9 | 4680.4 | 4788.6 | 3373.7 | 4915.5 | 7039.8 | 8120.6 |
| PREB | 671.7 | 788.2 | 460.3 | 459.5 | 354.1 | 473.6 | 539.8 | 1147.3 |
| PRED57 | 109.7 | 140.4 | 98.1 | 96.1 | 84.7 | 94.8 | 116.1 | 140 |
| PREI3 | 790.4 | 1102.5 | 552.3 | 507.2 | 435.1 | 628.7 | 689.2 | 1075.6 |
| PREI3 | 339.1 | 434.7 | 156.4 | 166.4 | 186.3 | 220.1 | 300.7 | 353.4 |
| PREI3 | 75.9 | 84.8 | 91.2 | 80.2 | 78.8 | 77.6 | 83.2 | 79.6 |
| PRELID1 | 1921.3 | 2695.3 | 2083 | 1974.2 | 1595.4 | 2156.8 | 1836.9 | 2656 |
| PRELID2 | 140.4 | 150.5 | 104.7 | 99.6 | 91.4 | 91.5 | 126.9 | 168.7 |
| PRELP | 92.2 | 112.9 | 92.8 | 96.8 | 86.1 | 97.6 | 92.3 | 108.1 |
| PREP | 1198 | 1753 | 610.6 | 534.2 | 400.4 | 573.7 | 811 | 1127.5 |
| PREPL | 306.3 | 409.5 | 267.1 | 324.2 | 267 | 575 | 212 | 327.8 |
| PREX1 | 167 | 247.3 | 152 | 240 | 231.8 | 350.1 | 181.3 | 221.6 |
| PRF1 | 81.6 | 92.7 | 109.2 | 101 | 98.4 | 90.2 | 90.1 | 97.1 |
| PRG2 | 621.4 | 871.6 | 929.5 | 683.6 | 509.3 | 592.1 | 524.4 | 811.3 |
| PRG2 | 297.6 | 385.2 | 214.9 | 158.4 | 131.5 | 152.5 | 253.4 | 272.2 |
| PRG3 | 82.5 | 92.1 | 95.6 | 96.1 | 84.4 | 88.5 | 84.9 | 95 |
| PRG-3 | 117.5 | 132.1 | 122.2 | 112 | 105.6 | 121.7 | 131.6 | 143.3 |
| PRG-3 | 79.3 | 92 | 84.2 | 78 | 82 | 89 | 74.1 | 93.2 |
| PRG-3 | 111.7 | 116.7 | 88.2 | 84.8 | 83.9 | 88.1 | 99.7 | 107 |
| PRH1 | 98.9 | 122.5 | 103.3 | 78.9 | 85.8 | 92.5 | 98.7 | 123.4 |
| PRH2 | 106.4 | 119 | 90 | 97.6 | 84 | 85.8 | 111.2 | 109.6 |
| PRIC285 | 638.1 | 801.2 | 438.3 | 397.7 | 386.3 | 369.5 | 624.8 | 760.2 |
| PRICKLE1 | 952.1 | 1150.5 | 755.6 | 706.1 | 594.3 | 521.2 | 565.8 | 464.4 |
| PRICKLE2 | 90.2 | 96.5 | 105.1 | 104.7 | 88.3 | 92 | 90.8 | 102.2 |
| PRIM1 | 2546.8 | 3626.9 | 1457.4 | 1142.4 | 896.4 | 1173.8 | 1778.5 | 2681.1 |
| PRIM2A | 142.1 | 203.5 | 130.9 | 107.7 | 100.2 | 136.9 | 126.9 | 118.2 |
| PRIMA1 | 96 | 110.4 | 97.9 | 85.9 | 84.9 | 85 | 88.4 | 112.5 |
| PRKAA1 | 192.5 | 214.3 | 160.8 | 238.8 | 191.8 | 286.8 | 173.5 | 219 |
| PRKAA1 | 617.4 | 736.3 | 256 | 374.1 | 351.4 | 542.2 | 454.3 | 743.9 |
| PRKAA2 | 80.6 | 85.6 | 96.6 | 83 | 77.2 | 84.2 | 82.4 | 87.8 |
| PRKAB1 | 259.7 | 379.9 | 202.4 | 191.8 | 180.2 | 230.8 | 242.7 | 359.3 |
| PRKAB2 | 177.8 | 211.7 | 156.2 | 149.7 | 148.5 | 213.2 | 179 | 302 |
| PRKACA | 108.1 | 142.1 | 98.5 | 90.4 | 87.1 | 98 | 110.6 | 112.4 |
| PRKACA | 109.6 | 143.9 | 103.9 | 92 | 87.1 | 95.1 | 104.4 | 143.3 |
| PRKACB | 103 | 108 | 92.1 | 89.2 | 82.3 | 90.1 | 109.4 | 120.9 |
| PRKACB | 223.1 | 267.8 | 135.5 | 139.5 | 115.7 | 143.8 | 167.3 | 201.1 |
| PRKACB | 103.3 | 132.2 | 79.4 | 83.8 | 74.1 | 75 | 104.3 | 131 |
| PRKACB | 83.8 | 101 | 103.3 | 91.3 | 95.5 | 102.5 | 88.9 | 102.2 |
| PRKACG | 93.3 | 104 | 108.3 | 99.9 | 89.8 | 96.2 | 91.7 | 94.1 |
| PRKAG1 | 373.9 | 480.8 | 191.2 | 169.6 | 155.9 | 215.4 | 317.3 | 394.8 |
| PRKAG1 | 302 | 441.8 | 307.8 | 322.9 | 268.4 | 460.9 | 289.1 | 381.3 |
| PRKAG2 | 378 | 505.4 | 266.4 | 321.5 | 275.5 | 380.7 | 376.9 | 592.5 |
| PRKAG2 | 240.6 | 296 | 126.6 | 136.6 | 121.2 | 162.8 | 227.9 | 318 |
| PRKAG2 | 113.7 | 134.7 | 105.8 | 94 | 93.4 | 92.5 | 111.8 | 150.9 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| PRKAG3 | 75.2 | 92.7 | 105.6 | 95.9 | 85.1 | 98 | 82.4 | 89.2 |
| PRKAR1A | 113 | 127.4 | 96.2 | 102.5 | 85.3 | 93.4 | 100.1 | 112 |
| PRKAR1A | 1325.6 | 1661.8 | 578.1 | 479.7 | 436.1 | 548.7 | 1323.3 | 2113 |
| PRKAR1B | 252.8 | 312.4 | 202.9 | 246.6 | 222 | 254.3 | 192.5 | 244.6 |
| PRKAR2A | 254.5 | 386.6 | 210.2 | 305.5 | 259.9 | 167.9 | 237.4 | 274.1 |
| PRKAR2B | 95.9 | 108.6 | 99.4 | 100.6 | 85.7 | 92.5 | 96.2 | 98.7 |
| PRKCA | 322.1 | 475.1 | 292.5 | 769.6 | 521.2 | 1001 | 306.7 | 593.9 |
| PRKCABP | 112.6 | 128.2 | 117.1 | 100.4 | 103.1 | 117 | 111.9 | 130.1 |
| PRKCB1 | 341.1 | 363.1 | 116.5 | 173 | 102.4 | 150.8 | 275.2 | 447.7 |
| PRKCB1 | 370.6 | 560.2 | 195.2 | 322.6 | 195.1 | 411.9 | 341.7 | 494.3 |
| PRKCB1 | 3457.2 | 4102.9 | 2240.7 | 2356.1 | 2318.7 | 2628.4 | 3121.8 | 4060.6 |
| PRKCBP1 | 287.1 | 392.4 | 203.4 | 213 | 185.6 | 273.4 | 193.6 | 267.1 |
| PRKCBP1 | 99.9 | 108.2 | 90.9 | 98.8 | 84.4 | 97.4 | 95.5 | 101.4 |
| PRKCD | 3297.8 | 4357 | 2943.2 | 2967.5 | 2924.6 | 3285.8 | 3166.5 | 4259.9 |
| PRKCD | 117.5 | 161.5 | 101.9 | 100.7 | 99.3 | 93.9 | 107.6 | 144.1 |
| PRKCDBP | 193 | 253.4 | 156.6 | 284.9 | 216.9 | 282.4 | 183.9 | 163.9 |
| PRKCE | 111.7 | 145 | 107.7 | 100.6 | 95.7 | 109.2 | 100.3 | 116.7 |
| PRKCG | 80.7 | 102.4 | 100.4 | 96.1 | 84.9 | 92.6 | 89.5 | 104.1 |
| PRKCH | 281.3 | 386.5 | 229.6 | 143.1 | 121.2 | 170.2 | 245.1 | 333.7 |
| PRKCI | 191.3 | 206.8 | 112.5 | 110.9 | 100.6 | 140.1 | 181.2 | 313.3 |
| PRKCQ | 1065.7 | 1363.3 | 493.1 | 405.1 | 327.3 | 553.9 | 871.6 | 1503.8 |
| PRKCSH | 1412.8 | 1888.6 | 884.1 | 700.6 | 566 | 592.6 | 1196.3 | 1756.3 |
| PRKCSH | 202.8 | 282.9 | 133.1 | 116.3 | 126.5 | 121.7 | 207.7 | 337.7 |
| PRKCZ | 196.9 | 253.2 | 111.1 | 92.2 | 93.7 | 103 | 197.5 | 209.9 |
| PRKCZ | 89 | 96.3 | 108.7 | 93.5 | 89.5 | 93.4 | 100.3 | 97.6 |
| PRKCZ | 314.3 | 406.2 | 171.4 | 209.2 | 179.4 | 199.8 | 284.7 | 284.9 |
| PRKCZ | 87.8 | 101.2 | 97.4 | 90.5 | 95.5 | 91.2 | 86.8 | 91.6 |
| PRKD1 | 68.7 | 89.9 | 77.2 | 76.5 | 76.8 | 66.7 | 78.3 | 79.6 |
| PRKD2 | 148.1 | 185.4 | 129.2 | 111 | 115.6 | 111.7 | 162.2 | 233.8 |
| PRKD2 | 118.6 | 121.4 | 120.5 | 92.9 | 91.4 | 104.7 | 107.5 | 122.7 |
| PRKD3 | 123.4 | 168 | 94.1 | 90.9 | 92.6 | 93.6 | 123.1 | 143.4 |
| PRKDC | 1262 | 2412.1 | 1052.1 | 1538.7 | 1311.6 | 1644.6 | 1043 | 784.2 |
| PRKDC | 188.5 | 286.6 | 131.2 | 161 | 132.5 | 255.6 | 187.1 | 247.5 |
| PRKDC | 236.8 | 434.7 | 132.8 | 151.2 | 150.6 | 170.3 | 221.1 | 256.1 |
| PRKG1 | 72.2 | 77.9 | 90.2 | 79 | 81.2 | 76.2 | 77.8 | 78 |
| PRKG2 | 83.7 | 100.7 | 90.9 | 79.8 | 81.6 | 77.5 | 86.4 | 80.4 |
| PRKRIP1 | 481.6 | 537.6 | 332.1 | 369.8 | 344.7 | 413.7 | 364.9 | 388 |
| PRKRIR | 2796.3 | 3196.2 | 1786.4 | 1903.4 | 1346.8 | 2432.8 | 2011.4 | 3228.2 |
| PRKX | 177.1 | 248.9 | 175.9 | 177.8 | 151.6 | 195.2 | 160.6 | 211.3 |
| PRKY | 125.6 | 134.6 | 78.7 | 82.2 | 91.5 | 109.3 | 113.8 | 126.6 |
| PRL | 74.4 | 84.5 | 89 | 92.3 | 85 | 88.6 | 88.2 | 88.1 |
| PRLH | 78.5 | 85.1 | 96.4 | 91.7 | 87.1 | 84.4 | 80.4 | 84.9 |
| PRLHR | 93.8 | 90.1 | 95.4 | 87.1 | 94 | 85.8 | 107.1 | 101.2 |
| PRLR | 98.9 | 131.2 | 88.9 | 82.7 | 82.5 | 83.7 | 99.2 | 101.7 |
| PRM1 | 104.6 | 117.2 | 97 | 86.8 | 84.3 | 87.9 | 99 | 100.4 |
| PRM2 | 84.5 | 91.4 | 89.3 | 78 | 78.6 | 82.7 | 87.1 | 83.4 |
| PRM3 | 90.4 | 110.2 | 97 | 90.1 | 79.3 | 79.2 | 87 | 85.9 |
| PRM3 | 97.3 | 127.3 | 98.3 | 97.1 | 95 | 93.6 | 105.2 | 111.4 |
| PRMT1 | 178.6 | 227.6 | 114.8 | 100.5 | 99.9 | 92.9 | 169.1 | 161.2 |
| PRMT1 | 2591.6 | 3978.9 | 1801.2 | 1070.6 | 961.2 | 1260.4 | 2310.5 | 2675.9 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| PRMT1 | 5874.4 | 7433.6 | 4141.9 | 2457.7 | 2213.1 | 3266.6 | 5670.6 | 7002.4 |
| PRMT2 | 340.8 | 378.2 | 211.9 | 233.6 | 226.5 | 303.5 | 315.9 | 413.6 |
| PRMT2 | 163 | 185.3 | 102.7 | 112.7 | 113.5 | 106.9 | 119.6 | 160.9 |
| PRMT2 | 338.6 | 400.2 | 255 | 280.9 | 294.4 | 394.7 | 263.6 | 469.1 |
| PRMT5 | 1452.6 | 1918.6 | 606.4 | 386.8 | 316.3 | 635.3 | 966.8 | 1366.8 |
| PRMT5 | 1321 | 1606 | 685.2 | 525.3 | 366.3 | 585.1 | 897.2 | 1366.2 |
| PRMT6 | 3151.2 | 4020.1 | 1654.5 | 721.2 | 611.7 | 1121.1 | 2516.3 | 3964.4 |
| PRMT7 | 355.8 | 453.9 | 210.2 | 158.3 | 130.9 | 161.7 | 281.8 | 300.1 |
| PRMT8 | 84.1 | 97.4 | 97.6 | 92.4 | 86.8 | 83.1 | 90.3 | 86.1 |
| PRND | 78 | 80.1 | 94.3 | 90.6 | 92.2 | 89.9 | 76 | 91.3 |
| PRNP | 560.4 | 813.8 | 322 | 396 | 294.9 | 607 | 525.7 | 841.8 |
| PRNP | 1743.4 | 2058.7 | 1132 | 1504.1 | 1094.3 | 1832.1 | 1634.4 | 3143.7 |
| PRNPIP | 124 | 205.4 | 97.1 | 93.1 | 76.4 | 89.2 | 124 | 153.2 |
| PRNT | 89.9 | 87.7 | 83 | 83.9 | 83.3 | 91.2 | 84 | 93.2 |
| PRO0149 | 479.7 | 650.6 | 369.5 | 335.8 | 283.6 | 376.5 | 505.4 | 879.7 |
| PRO0611 | 92.1 | 113.8 | 85.9 | 81.5 | 78.1 | 88.3 | 95.2 | 112.7 |
| PRO0628 | 114.4 | 138.8 | 120.6 | 154.4 | 152.3 | 117.7 | 123.5 | 148.2 |
| PRO1853 | 203.2 | 251 | 116.4 | 122.5 | 108.8 | 114.7 | 197.3 | 278.1 |
| PRO1853 | 190.2 | 193.7 | 123.9 | 118.7 | 117.9 | 139.2 | 143.9 | 196.3 |
| PROC | 77.5 | 81 | 90.1 | 98 | 94.8 | 108.2 | 78.4 | 99.9 |
| PROCA1 | 125 | 132.2 | 95.4 | 93.7 | 86.4 | 95.6 | 109.6 | 121.1 |
| PROCR | 292.5 | 387.9 | 189.2 | 141.8 | 134.8 | 164.2 | 251.7 | 347.3 |
| PRODH | 77.4 | 88.4 | 84.1 | 84 | 79.5 | 85.9 | 82.1 | 89.5 |
| PRODH2 | 98.6 | 112.6 | 93.4 | 81 | 79.2 | 72.5 | 85.1 | 125.8 |
| PROK1 | 106 | 135.2 | 95.5 | 79.9 | 82.2 | 80.7 | 107.3 | 127.4 |
| PROK2 | 128.3 | 160.6 | 117.2 | 105.2 | 95.7 | 114.2 | 144 | 214.6 |
| PROKR1 | 77.9 | 80.9 | 84.4 | 82.4 | 83 | 75.8 | 74.1 | 74.3 |
| PROKR2 | 86.8 | 98 | 101.1 | 94.8 | 88.9 | 90 | 88.3 | 96.7 |
| PROL1 | 89.7 | 100.8 | 87.2 | 86.2 | 87 | 88.6 | 95.5 | 95.8 |
| PROM1 | 77.7 | 78.7 | 80.4 | 76.4 | 79.1 | 77.7 | 77.9 | 79.4 |
| PROM2 | 91.1 | 112.5 | 82.1 | 93.4 | 72.1 | 83.3 | 95.7 | 112.2 |
| PROP1 | 124.5 | 151.1 | 89.2 | 84 | 91.2 | 100.6 | 132.8 | 147.6 |
| PROS1 | 1706.5 | 2168.5 | 1229.9 | 1621.2 | 1254.4 | 2105.8 | 1472.2 | 2014.6 |
| PROSAPIP1 | 76.7 | 80 | 91.5 | 88 | 93.4 | 84.8 | 79.2 | 94.3 |
| PROSC | 2701.5 | 3720.5 | 2807.1 | 2168.4 | 1651.8 | 2894.7 | 2420.2 | 5133.2 |
| PROX1 | 77.8 | 84 | 85.1 | 82.7 | 81.8 | 80.7 | 83.9 | 84.3 |
| PROZ | 78.4 | 75.4 | 87.1 | 76 | 71 | 88.2 | 78.9 | 79.9 |
| PRP2 | 86.1 | 102.1 | 91.9 | 85.7 | 84.9 | 87.6 | 91.2 | 99 |
| PRPF18 | 436.3 | 524.5 | 229.7 | 204.4 | 148.5 | 221 | 394.4 | 648.7 |
| PRPF19 | 992.5 | 1335.7 | 446.4 | 470.4 | 300.9 | 545.8 | 867.4 | 1394.6 |
| PRPF3 | 2393.5 | 2727.7 | 1370.9 | 948.8 | 912.3 | 1582.3 | 1736.6 | 3069.8 |
| PRPF31 | 1514.7 | 1905.7 | 862.4 | 688.3 | 523.4 | 806.1 | 1252.5 | 1991.5 |
| PRPF38A | 908.6 | 1095.2 | 471.9 | 514.9 | 415.3 | 715.7 | 707.7 | 1059.4 |
| PRPF38A | 385.4 | 525.5 | 141.8 | 160.6 | 118.1 | 179.1 | 335.8 | 472.8 |
| PRPF38B | 437.3 | 545.5 | 310.4 | 229.3 | 177.9 | 352 | 363.7 | 765.9 |
| PRPF39 | 132 | 136.3 | 107.7 | 101.2 | 88 | 102.2 | 119.3 | 152 |
| PRPF4 | 2792.8 | 3260.5 | 2488.7 | 1730.1 | 1183.5 | 1784.5 | 2521.3 | 4368.6 |
| PRPF40B | 85.5 | 102.1 | 99.4 | 91 | 92.8 | 93.4 | 94.1 | 92.2 |
| PRPF40B | 74.4 | 73.9 | 95 | 86 | 84.6 | 83 | 69.2 | 80.7 |
| PRPF4B | 124.3 | 120.5 | 106.1 | 114.6 | 87.4 | 119.9 | 106.3 | 141.5 |

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|---------|---------|---------|---------|---------|--------|---------|---------|--------|
| PRPF4B | 68.2 | 79.9 | 86 | 83.3 | 73.8 | 74.5 | 73.6 | 84.3 |
| PRPF4B | 183.6 | 189.2 | 172.6 | 205.8 | 200 | 366.4 | 141.8 | 235.5 |
| PRPF8 | 1405 | 1852.3 | 1498.2 | 1465.4 | 1151.7 | 1916.8 | 1535.3 | 2073 |
| PRPH | 152.2 | 185.2 | 128.8 | 110.9 | 107.6 | 117.1 | 135.2 | 172.2 |
| PRPS1 | 1758.3 | 2525.2 | 1022.7 | 776.5 | 566.6 | 1124.2 | 1573.1 | 2207.7 |
| PRPS1L1 | 101.7 | 133.1 | 90.6 | 92.4 | 86.1 | 86.9 | 98.6 | 117.8 |
| PRPS2 | 899.8 | 1318.5 | 252.7 | 287.6 | 304.7 | 370.9 | 706.3 | 849.9 |
| PRPS2 | 1696.4 | 2016.1 | 685.8 | 738.9 | 524.5 | 791.3 | 1299.6 | 1536.7 |
| PRPSAP1 | 1384.6 | 1748.4 | 933.8 | 994.4 | 889.7 | 1143.6 | 1286.7 | 1960.6 |
| PRPSAP2 | 470.9 | 661.5 | 336.5 | 343.1 | 295 | 390.4 | 468.7 | 666.9 |
| PRR11 | 724.6 | 1011.4 | 358.6 | 339.4 | 333.5 | 258.8 | 680.1 | 855.2 |
| PRR13 | 17848.9 | 22696.1 | 13332.5 | 13730.6 | 9639 | 13586.8 | 16414.6 | 17569 |
| PRR15 | 132.5 | 147.4 | 85.2 | 89.4 | 84 | 88.1 | 123.4 | 166.3 |
| PRR3 | 210.8 | 261.3 | 117.1 | 88.8 | 91.7 | 99.2 | 197 | 173.3 |
| PRR3 | 180.4 | 293.1 | 103.9 | 110.8 | 87.2 | 105.6 | 179.2 | 168.8 |
| PRR4 | 115.7 | 119.2 | 120.4 | 105.9 | 94.8 | 118 | 111.4 | 170.3 |
| PRR5 | 100 | 114.8 | 94.8 | 100.9 | 86.3 | 85.5 | 93.4 | 95.9 |
| PRR5 | 343.8 | 466.9 | 353.1 | 239.9 | 242.1 | 334.1 | 229.6 | 429.4 |
| PRR5 | 177.9 | 201.1 | 171.1 | 147.6 | 121.9 | 167.4 | 164.2 | 213 |
| PRR6 | 1567.7 | 1946.6 | 1294.9 | 1004.8 | 897.6 | 1018.9 | 1622.4 | 1084.9 |
| PRR7 | 123.8 | 162.5 | 110.2 | 101.3 | 85.3 | 99.3 | 111.8 | 169 |
| PRR8 | 124.6 | 138.9 | 82.6 | 96.2 | 93.1 | 104.2 | 116.6 | 151.4 |
| PRRG1 | 316.9 | 391.3 | 271.3 | 252.6 | 224.9 | 320.2 | 303.6 | 435.6 |
| PRRG2 | 109.8 | 112.9 | 96.8 | 87.7 | 86.1 | 85.8 | 105.8 | 99.7 |
| PRRG3 | 84.5 | 101.9 | 88.7 | 87.8 | 86.2 | 85.3 | 88.2 | 101 |
| PRRG4 | 205.9 | 184.2 | 135.2 | 142.8 | 128.1 | 110.9 | 195.1 | 307.2 |
| PRRT1 | 128.6 | 136.6 | 105.2 | 101.8 | 95.3 | 102.8 | 126.7 | 155.6 |
| PRRT2 | 107.5 | 128.3 | 95.6 | 81.1 | 87 | 86.7 | 103 | 126 |
| PRRT3 | 172.9 | 188.4 | 117.8 | 100.3 | 96.9 | 105.1 | 209 | 298.5 |
| PRRX1 | 80 | 89.7 | 106 | 86.1 | 87.3 | 93.1 | 92 | 83.9 |
| PRRX1 | 98.4 | 112.9 | 101.9 | 95.9 | 80.6 | 84.9 | 92.1 | 107.5 |
| PRRX2 | 123.5 | 137.5 | 89.3 | 82.6 | 87.8 | 85 | 109.4 | 130.9 |
| PRSS1 | 102 | 116.7 | 99 | 86.6 | 80 | 80.8 | 87.6 | 110.4 |
| PRSS12 | 247.4 | 328.2 | 217.6 | 210.9 | 178.8 | 267.2 | 189.9 | 237.6 |
| PRSS15 | 1339.4 | 1588 | 1436.9 | 1119.3 | 958.4 | 1911.2 | 1184.9 | 2695 |
| PRSS16 | 101.1 | 126.8 | 101.3 | 93.7 | 94.3 | 101.6 | 96.9 | 116 |
| PRSS2 | 104.3 | 123.4 | 92 | 87.5 | 73 | 74.7 | 107.7 | 117.9 |
| PRSS21 | 129.5 | 156.3 | 91.5 | 92.3 | 87 | 93.2 | 117.3 | 148.1 |
| PRSS21 | 92.9 | 88.6 | 85.9 | 82.5 | 82.1 | 81.9 | 84.9 | 90.1 |
| PRSS22 | 98.5 | 118.6 | 97.8 | 94.2 | 81.1 | 87.1 | 105.4 | 120 |
| PRSS23 | 90.6 | 104.6 | 95.3 | 82 | 93.4 | 85.8 | 110.5 | 131.8 |
| PRSS27 | 92.4 | 117.3 | 105.4 | 108.2 | 106.8 | 115.7 | 100 | 104.4 |
| PRSS3 | 88.7 | 103.3 | 103.2 | 102.3 | 95.6 | 98.3 | 93.2 | 105.5 |
| PRSS33 | 78.4 | 92.1 | 89.3 | 90.2 | 77.5 | 81.9 | 86.4 | 84 |
| PRSS35 | 109.5 | 133.3 | 83.7 | 91.2 | 79.3 | 95.7 | 125.5 | 136.1 |
| PRSS7 | 179.7 | 217.3 | 136.8 | 110.6 | 113.6 | 122.9 | 151.8 | 191.6 |
| PRSS8 | 102.4 | 121.5 | 79.6 | 80.9 | 80.8 | 82.3 | 113.9 | 130.3 |
| PRSSL1 | 126.4 | 153.7 | 110.7 | 95.4 | 101.2 | 100.3 | 121.7 | 152.1 |
| PRTFDC1 | 121.4 | 151.6 | 99.8 | 72.7 | 82.9 | 79.3 | 120.6 | 145.5 |
| PRTG | 84.9 | 113.6 | 95 | 95.1 | 78.6 | 85.9 | 87.8 | 108.8 |

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|-----------|---------|---------|--------|--------|--------|--------|--------|---------|
| PRTG | 76.3 | 80.1 | 101.9 | 86 | 84.7 | 80 | 71 | 83.9 |
| PRTN3 | 10640.9 | 14488.1 | 8668.7 | 7386.6 | 5570.3 | 8987.4 | 7950.2 | 13062.6 |
| PRUNE | 297.3 | 409.4 | 216.2 | 230.3 | 200.4 | 294.2 | 287.6 | 471.4 |
| PRUNE2 | 107.2 | 110.2 | 99 | 95 | 83.6 | 83.4 | 105.8 | 114.6 |
| PRX | 106.2 | 96 | 101.9 | 90.1 | 89.4 | 95.9 | 93.4 | 105.9 |
| PRX | 120.2 | 122.6 | 109.3 | 97.3 | 87.5 | 90 | 115.8 | 118.1 |
| PRX | 93.2 | 104.6 | 108.2 | 100.7 | 107.6 | 108.4 | 89.2 | 99.2 |
| PRY | 96.8 | 102.9 | 87 | 83.8 | 85.4 | 78.1 | 96.8 | 105.1 |
| PSAP | 3654.8 | 4925.7 | 1774.5 | 3618.9 | 3107 | 3769.3 | 3365.5 | 3154.1 |
| PSAP | 3446.1 | 4377.7 | 1770.4 | 3412 | 3135.3 | 3794.9 | 3095.6 | 3149.3 |
| PSARL | 4334.4 | 5867.3 | 3564.8 | 4504.1 | 3720.8 | 5724.7 | 4345.9 | 5256 |
| PSAT1 | 3253 | 3763.6 | 2614 | 969.9 | 680.5 | 1062.6 | 3856.2 | 5798.4 |
| PSAT1 | 78.7 | 82.8 | 88.9 | 86.4 | 80.7 | 76.5 | 78.2 | 77.1 |
| PSCA | 116.7 | 130 | 98.8 | 96.3 | 92.9 | 90.5 | 122 | 113.6 |
| PSCD1 | 170.2 | 200.9 | 127.8 | 112 | 124.8 | 147.9 | 165.4 | 248.9 |
| PSCD1 | 551.9 | 757.5 | 734.4 | 844.7 | 850.4 | 1224.5 | 499.8 | 907.4 |
| PSCD2 | 204.2 | 279.5 | 136.4 | 121.9 | 117.3 | 130.2 | 228 | 289.1 |
| PSCD2 | 129.5 | 141 | 117.7 | 105.5 | 87.1 | 107.8 | 134.1 | 151.4 |
| PSCD3 | 125.1 | 149.7 | 140.8 | 133.1 | 138.2 | 173.5 | 136.6 | 196.7 |
| PSCD4 | 886 | 1002.3 | 892.5 | 1027.1 | 1021.2 | 1065.3 | 765.5 | 615.2 |
| PSCDBP | 71.1 | 86 | 78.3 | 78.3 | 71.7 | 78.9 | 86.1 | 88.2 |
| PSD | 93.8 | 102.4 | 94.3 | 84.9 | 83.6 | 88.3 | 99.4 | 101.8 |
| PSD2 | 87.8 | 102.5 | 89.2 | 94.3 | 85.1 | 81 | 87.5 | 89.3 |
| PSD3 | 120.2 | 133.5 | 106 | 104.5 | 94.6 | 98.9 | 106.1 | 117.2 |
| PSD3 | 177.3 | 189.8 | 108.1 | 97.3 | 92.5 | 111 | 159.7 | 172.6 |
| PSD3 | 160 | 220.4 | 162 | 167.8 | 148.2 | 231.6 | 132.7 | 155.9 |
| PSD4 | 340.6 | 367.4 | 499.1 | 442.1 | 352.5 | 502.7 | 301.8 | 346.6 |
| PSEN1 | 233.3 | 252.9 | 132.3 | 140 | 131.5 | 110.8 | 206.7 | 239.9 |
| PSEN1 | 254.3 | 338.9 | 108.7 | 97.1 | 95.3 | 105.9 | 236.8 | 327.9 |
| PSEN2 | 330.7 | 451.8 | 265.6 | 241.1 | 167.5 | 258.5 | 297.2 | 346.3 |
| PSEN2 | 489 | 588.8 | 361.3 | 313.4 | 240.7 | 331.9 | 433.9 | 549.1 |
| PSENEEN | 315.5 | 389.6 | 189 | 142.6 | 117.8 | 122.9 | 271.4 | 400.8 |
| PSF1 | 118.6 | 162.4 | 96 | 84.3 | 79 | 94.9 | 102.2 | 133.6 |
| PSG1 | 87.3 | 93.5 | 87.5 | 79.6 | 77.9 | 78.6 | 86.3 | 94.9 |
| PSG11 | 83.8 | 82.1 | 94.3 | 79.6 | 79.5 | 87.4 | 88.1 | 89.1 |
| PSG2 | 75.5 | 76.7 | 96.1 | 96.8 | 92.7 | 95.8 | 85.8 | 84.3 |
| PSG3 | 81.6 | 99.4 | 81.6 | 75.6 | 68.5 | 74.1 | 93.3 | 103.9 |
| PSG4 | 82.5 | 82.3 | 96.4 | 86.3 | 91.8 | 92.6 | 82.9 | 85.8 |
| PSG4 | 107.2 | 138.6 | 100.1 | 83.2 | 81.4 | 90.9 | 114.7 | 108.5 |
| PSG4 | 67.3 | 87.1 | 95.8 | 80.8 | 83.3 | 89.4 | 76.4 | 78.2 |
| PSG5 | 71.1 | 81.5 | 96.4 | 90.8 | 80.9 | 87.6 | 74.8 | 79.7 |
| PSG6 | 81 | 82.9 | 101.4 | 76.8 | 78.8 | 87 | 81.7 | 86.2 |
| PSG6 | 83.6 | 97.6 | 100.5 | 98.5 | 98.8 | 102.7 | 81 | 97.7 |
| PSG6 | 84.2 | 89.2 | 92.8 | 91 | 84.4 | 84.5 | 81.7 | 89.5 |
| PSG7 | 99.1 | 106.2 | 91.6 | 85 | 79.7 | 91.4 | 89.8 | 98.3 |
| PSG8 | 80.6 | 82 | 100.7 | 93.3 | 90.3 | 87.7 | 79.2 | 79.3 |
| PSG9 | 82.2 | 105.4 | 81.2 | 89.5 | 77.5 | 83.5 | 88.8 | 92.3 |
| PSIP1 | 101.5 | 114.9 | 93.3 | 91.5 | 87.9 | 81.4 | 95.2 | 105.3 |
| PSIP1 | 1068.8 | 1225.7 | 557.3 | 555.3 | 554.8 | 912.8 | 653.5 | 1223.5 |
| PSITPTE22 | 85.5 | 91.7 | 83.5 | 87.4 | 72.6 | 81.1 | 87.1 | 92.8 |

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|---------|---------|---------|--------|---------|--------|---------|---------|---------|
| PSKH1 | 92 | 107.7 | 89.2 | 92 | 86.8 | 82.3 | 92.1 | 113.3 |
| PSKH2 | 82.7 | 87.9 | 76.2 | 69.7 | 70.9 | 76.9 | 82.2 | 100.9 |
| PSMA1 | 145.8 | 165.7 | 95.1 | 98.5 | 84.4 | 89.6 | 125.6 | 146.1 |
| PSMA1 | 986 | 1249.5 | 447.6 | 371.2 | 236.8 | 334.5 | 933.6 | 1049.2 |
| PSMA1 | 8527.7 | 9706.9 | 4720.9 | 3416 | 2471.1 | 4005.9 | 8172 | 12064 |
| PSMA2 | 709.5 | 864.9 | 408.5 | 410.3 | 307.8 | 416.1 | 657.9 | 1152.7 |
| PSMA3 | 4583 | 5719.8 | 1407.9 | 881 | 783.2 | 1171.9 | 4763.3 | 6641.9 |
| PSMA3 | 1880.5 | 2739.3 | 427.5 | 280.2 | 241 | 383.7 | 2248.7 | 3566.4 |
| PSMA4 | 6191.2 | 6741.6 | 1755.7 | 1295.1 | 1200.3 | 1807 | 5261.2 | 6957.8 |
| PSMA5 | 12532.4 | 15627.2 | 8517.7 | 4276.8 | 3105.5 | 4305.7 | 12127.5 | 17370.5 |
| PSMA6 | 14777.5 | 15794.6 | 12192 | 11068.8 | 8695.9 | 12823.5 | 13468.6 | 17822.2 |
| PSMA8 | 80.1 | 89.8 | 94.2 | 91.6 | 82.9 | 79.9 | 75.2 | 78 |
| PSMAL | 87.7 | 100.3 | 87.9 | 95.2 | 83.9 | 81.5 | 85 | 93.2 |
| PSMB1 | 17851.5 | 21391.3 | 9520 | 8541.3 | 7328 | 9771.9 | 18266.6 | 21205.2 |
| PSMB10 | 12459.4 | 14881.1 | 6535.7 | 4996.3 | 4643.7 | 5411.8 | 12011.5 | 11142.8 |
| PSMB2 | 3361.8 | 4835.2 | 2521.9 | 1998.6 | 1568.8 | 1964.4 | 3042.1 | 3413.8 |
| PSMB3 | 9383.6 | 10799 | 8467.9 | 7044.8 | 5296.5 | 7643.6 | 8265 | 10998.1 |
| PSMB4 | 4929.5 | 5820.4 | 4165.9 | 3141.1 | 2423.5 | 3427.2 | 5139.8 | 8149.7 |
| PSMB5 | 3188 | 4529.7 | 1525.6 | 1023.6 | 807.2 | 1242.6 | 2880.8 | 3605.8 |
| PSMB6 | 5573.5 | 6664.3 | 3812.5 | 3208.3 | 2737.4 | 2788 | 5896.7 | 4851.1 |
| PSMB7 | 6176.8 | 9526.8 | 5013.5 | 4008.4 | 3381.6 | 4886.6 | 7500.1 | 8388.3 |
| PSMB8 | 3016.7 | 4200.2 | 968.5 | 998 | 861.4 | 1293.4 | 2176.9 | 2294.3 |
| PSMB8 | 1205.6 | 1526 | 252.6 | 308 | 239.9 | 388.1 | 944.7 | 1084.8 |
| PSMB8 | 95.6 | 113.3 | 106.7 | 94 | 86.2 | 94.7 | 100 | 105.3 |
| PSMB8 | 4146 | 5782.8 | 3392.6 | 3212.2 | 2812.5 | 3942.5 | 3267 | 3569.2 |
| PSMB9 | 1049.3 | 1321 | 678.4 | 525.6 | 450 | 598.2 | 794.3 | 770.9 |
| PSMB9 | 158.2 | 193.8 | 100.6 | 91.8 | 89.9 | 102.5 | 147.3 | 152 |
| PSMC1 | 9804.3 | 12863.8 | 7770.7 | 6874.2 | 5706.9 | 9065.5 | 9912.6 | 12409.6 |
| PSMC2 | 4723.5 | 6466.4 | 2840.8 | 3292.9 | 2602.6 | 4080.3 | 4830.1 | 7781.6 |
| PSMC3 | 3424.3 | 4501.1 | 1650.5 | 1627.9 | 1215.4 | 1583.5 | 3596.9 | 3717.1 |
| PSMC3IP | 356.3 | 407.9 | 162.9 | 109.4 | 105.3 | 109.6 | 288 | 375.6 |
| PSMC3IP | 365.8 | 482.1 | 283 | 234 | 203.7 | 219.2 | 277.8 | 396.1 |
| PSMC4 | 1435.5 | 1822.5 | 674.6 | 351.2 | 310.7 | 314.1 | 1086.9 | 1352.1 |
| PSMC4 | 1200.9 | 1568.3 | 488.7 | 274.5 | 258.1 | 278.4 | 1015.4 | 1061.7 |
| PSMC5 | 3972.1 | 5126.7 | 976.6 | 818.1 | 786.3 | 1288.9 | 3759 | 4848.4 |
| PSMC6 | 124.5 | 129.7 | 104.4 | 104.2 | 86.1 | 109.2 | 111.4 | 220.4 |
| PSMD1 | 1401.5 | 1565.4 | 1341.5 | 1666.4 | 1243.1 | 2204.8 | 1629.7 | 3186.7 |
| PSMD10 | 1997.2 | 2772.2 | 1234.8 | 1373.3 | 920.8 | 1889.8 | 1645 | 2541 |
| PSMD10 | 268.7 | 348.3 | 106 | 102 | 97.7 | 126.5 | 231.9 | 317.6 |
| PSMD10 | 790.2 | 1034.3 | 333.9 | 424.8 | 328.7 | 565.9 | 643.1 | 831.3 |
| PSMD11 | 244.2 | 306.1 | 152.9 | 141.8 | 102.7 | 146.5 | 252.7 | 385.6 |
| PSMD12 | 2082.8 | 2354.3 | 1299.4 | 1533.8 | 898.8 | 1760.9 | 1917.3 | 3495.7 |
| PSMD13 | 188.6 | 257.5 | 120 | 113.9 | 95.1 | 104.2 | 204.2 | 200.4 |
| PSMD13 | 273.1 | 348.2 | 174.7 | 165.5 | 150 | 193.3 | 226.8 | 285.4 |
| PSMD14 | 3086.3 | 3887.6 | 1214.5 | 995.9 | 580.8 | 1348.6 | 3174.8 | 5566.6 |
| PSMD2 | 1365.1 | 1608.9 | 991.2 | 953.2 | 859.6 | 1194.3 | 1206 | 1636.8 |
| PSMD3 | 234.8 | 336.2 | 179.7 | 172.4 | 168.6 | 201.2 | 263.9 | 366.1 |
| PSMD4 | 163.9 | 192 | 179.4 | 146.9 | 150.6 | 125.7 | 160.4 | 276.3 |
| PSMD4 | 2999.9 | 4410.1 | 1851.2 | 1520.2 | 1166.4 | 2060.8 | 3248.8 | 3109.2 |
| PSMD4 | 4166.1 | 5420 | 3413.6 | 2729.7 | 2234.5 | 3514.5 | 4306.3 | 4233.3 |

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|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| PSMD5 | 390.6 | 467.9 | 251.6 | 141.9 | 132 | 166.5 | 319.7 | 346.8 |
| PSMD6 | 4831.1 | 6108.3 | 2371.8 | 2125.8 | 1593.8 | 3040.7 | 4468.9 | 8132.1 |
| PSMD7 | 2780.7 | 3611.6 | 2393.6 | 1787.1 | 1493.6 | 2506.3 | 2632.9 | 5467.8 |
| PSMD8 | 1502 | 1963.4 | 779.7 | 513 | 482.4 | 576.3 | 1636.6 | 1428.4 |
| PSMD9 | 204 | 250.8 | 175.6 | 180.1 | 139.5 | 180.5 | 188.1 | 262.6 |
| PSME1 | 7223.4 | 9185.7 | 4726.4 | 3057.8 | 2266.4 | 3178.6 | 5918.6 | 9385.8 |
| PSME1 | 143.9 | 163.5 | 98 | 98.6 | 98.2 | 91.4 | 132 | 182.5 |
| PSME2 | 5620.2 | 6928.6 | 1988.4 | 1382.1 | 1128.2 | 1574.2 | 5198.9 | 5434.6 |
| PSME3 | 1207.6 | 1454.3 | 639.7 | 886.9 | 546.8 | 783.9 | 850.7 | 1004.1 |
| PSME3 | 851.9 | 1034.3 | 699.4 | 928.3 | 603.5 | 1029.3 | 664.7 | 1202.6 |
| PSME4 | 1488 | 2033.2 | 889.2 | 1072.1 | 756.5 | 1340.9 | 1639.3 | 1872.1 |
| PSMF1 | 115.5 | 126.7 | 90.9 | 87.4 | 86.3 | 88.3 | 117.8 | 144.1 |
| PSMF1 | 1497.8 | 2004.3 | 1000.6 | 1164.6 | 896 | 1187.5 | 1188.7 | 1308.5 |
| PSORS1C1 | 209.9 | 266 | 121.5 | 154.4 | 118 | 143 | 177.8 | 201 |
| PSORS1C2 | 97.7 | 106.6 | 113.2 | 94.7 | 95.8 | 101.3 | 100.7 | 104.6 |
| PSPC1 | 964.9 | 1116.5 | 303.8 | 224.8 | 170 | 290.8 | 728.7 | 1146.7 |
| PSPH | 219.1 | 337.6 | 148.3 | 122.7 | 104.8 | 135.3 | 234.5 | 188.9 |
| PSPN | 77.1 | 100.1 | 87.9 | 75.5 | 75.6 | 78.6 | 90.1 | 111.6 |
| PSRC1 | 1757.8 | 1914.5 | 1071.3 | 359.8 | 346.6 | 431.9 | 1281 | 1339.1 |
| PSRC1 | 239.7 | 357.1 | 122.9 | 83.1 | 96.7 | 116.5 | 228.8 | 329.2 |
| PSRC1 | 111 | 116.9 | 118.4 | 104.4 | 101.9 | 104.6 | 94.8 | 110.2 |
| PSRC2 | 148.7 | 165.6 | 124.6 | 131.3 | 120.8 | 172.5 | 114 | 145 |
| PSTPIP1 | 324.6 | 340.5 | 242.4 | 247.4 | 223.6 | 277.1 | 243.5 | 285.7 |
| PSTPIP2 | 357 | 427.1 | 154.7 | 161.5 | 159.6 | 230.3 | 248.3 | 312 |
| PTAFR | 131.2 | 141.7 | 80 | 87.8 | 89.6 | 99.4 | 130.4 | 143.2 |
| PTBP1 | 10043.9 | 12257.8 | 7389.3 | 6925.4 | 4647.6 | 6384.2 | 9195.2 | 10049.9 |
| PTBP1 | 15256.4 | 18095.3 | 14117.1 | 12594.3 | 10041.7 | 13843.1 | 13175.1 | 14724.3 |
| PTBP2 | 317.3 | 349 | 187.4 | 217.8 | 217.9 | 307.7 | 240.7 | 460.4 |
| PTCD1 | 1104.9 | 1382.9 | 783 | 513.5 | 400.5 | 545.4 | 871.2 | 848.6 |
| PTCD2 | 547.4 | 758.3 | 372.4 | 315.6 | 263.2 | 375.3 | 442.5 | 622.9 |
| PTCH | 110 | 119 | 124.1 | 112.8 | 110.2 | 116.9 | 113.3 | 121.8 |
| PTCH2 | 114.8 | 143.2 | 96.8 | 95 | 89.8 | 90.2 | 123.5 | 139.5 |
| PTCHD1 | 81.1 | 89.7 | 86 | 83.7 | 80.6 | 80.9 | 80.5 | 83 |
| PTCHD3 | 103.8 | 114.7 | 103.4 | 102.2 | 103.6 | 102.3 | 102.4 | 110.6 |
| PTCRA | 112.8 | 128 | 103.9 | 102.5 | 91.5 | 91 | 118.4 | 117.1 |
| PTD004 | 87.7 | 95.2 | 93.6 | 93.7 | 84.6 | 87.7 | 101.3 | 93.7 |
| PTD004 | 107.4 | 121.4 | 97 | 110.3 | 113.1 | 138 | 93.3 | 132.7 |
| PTD008 | 3196.5 | 3775.3 | 1713.9 | 1269.4 | 953.4 | 1033.1 | 3413.5 | 3669.4 |
| PTD015 | 737.8 | 949.1 | 337.7 | 319.9 | 277.6 | 289.6 | 690.6 | 719.8 |
| PTDSR | 97.9 | 123.2 | 96.7 | 91.1 | 88 | 78.6 | 99 | 103.7 |
| PTDSR | 230.3 | 246.4 | 151.2 | 122.2 | 121 | 187 | 234.7 | 304.2 |
| PTDSS1 | 4877 | 6329.2 | 4779 | 2705.8 | 1771.1 | 3324.3 | 3713.5 | 6226.6 |
| PTDSS2 | 160.2 | 182.2 | 152.4 | 113.8 | 99.1 | 148.7 | 177.1 | 219.3 |
| PTEN | 82.6 | 85.5 | 97.7 | 170.7 | 149.1 | 190.2 | 85.4 | 91.6 |
| PTER | 76.5 | 83.6 | 81.5 | 82.5 | 78.4 | 78.7 | 85.9 | 91 |
| PTER | 93.7 | 98.1 | 99.3 | 89.2 | 95.3 | 91 | 100.9 | 113.5 |
| PTER | 124.1 | 159.4 | 108.6 | 109.7 | 97.3 | 105.8 | 114.5 | 123.5 |
| PTF1A | 102.1 | 108.5 | 93.2 | 103.9 | 81.3 | 84.9 | 94.4 | 109.7 |
| PTGDR | 70.2 | 82.4 | 96 | 91.3 | 93.6 | 95.1 | 75.4 | 87.3 |
| PTGDS | 93.2 | 105.2 | 87.4 | 202.9 | 171.1 | 174.6 | 93.3 | 108.1 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| PTGER1 | 148.4 | 178.2 | 115.2 | 111.7 | 96 | 101.2 | 152.2 | 146.9 |
| PTGER2 | 97.7 | 102.2 | 105.2 | 103.9 | 101.5 | 103.6 | 84.7 | 93.5 |
| PTGER3 | 108.9 | 124.3 | 94 | 88 | 89.3 | 86.8 | 89.7 | 96.6 |
| PTGER3 | 96.6 | 105.5 | 92 | 87.1 | 81.5 | 91.1 | 95.2 | 95.5 |
| PTGER3 | 92.1 | 95.6 | 112.3 | 101 | 90.4 | 99.3 | 87.2 | 93.7 |
| PTGER3 | 77.1 | 73.3 | 90.9 | 75.3 | 82.9 | 75.2 | 73.3 | 80.4 |
| PTGER3 | 88.1 | 98 | 82.9 | 88.9 | 74.9 | 82.1 | 93.8 | 109.4 |
| PTGER3 | 90.5 | 93.4 | 89.5 | 91.2 | 86 | 90.6 | 79.6 | 96.1 |
| PTGER4 | 1386.2 | 1844.7 | 528.8 | 968.9 | 864.5 | 1104 | 992.4 | 1309.7 |
| PTGES | 77.8 | 85.1 | 85.7 | 83.7 | 80 | 93.5 | 77.1 | 84.6 |
| PTGES2 | 746.6 | 1078.5 | 648.5 | 316.5 | 268.4 | 381.1 | 652.3 | 830.4 |
| PTGES2 | 1483.8 | 2118.4 | 993.6 | 538 | 430.6 | 582.9 | 1276.1 | 1134.3 |
| PTGES3 | 2506.7 | 2577.7 | 1642.3 | 1418.8 | 943.6 | 1723.7 | 2174.2 | 4366.7 |
| PTGFR | 100.7 | 131.1 | 88.4 | 80.7 | 80.6 | 82.1 | 110.5 | 121.4 |
| PTGFR | 103.1 | 125.5 | 95.4 | 87.6 | 85.5 | 84.3 | 106.6 | 123.4 |
| PTGFRN | 139.8 | 179.7 | 92.3 | 85.4 | 78.7 | 93.2 | 146.7 | 253 |
| PTGIR | 96.2 | 105.8 | 104.2 | 97.7 | 100.9 | 115.4 | 85.9 | 99.7 |
| PTGIS | 76.5 | 89.2 | 90.5 | 80.9 | 74.6 | 78.4 | 77.2 | 77.7 |
| PTGS1 | 303.6 | 317 | 202.7 | 224.5 | 180.2 | 246.9 | 247 | 318.8 |
| PTGS1 | 136.9 | 184.4 | 119.3 | 94.2 | 93.2 | 93.2 | 126.1 | 158.2 |
| PTGS2 | 188.3 | 210.3 | 160.1 | 154.3 | 135.1 | 152.6 | 196.9 | 292.9 |
| PTH | 95.2 | 95.4 | 76.3 | 74.7 | 66.7 | 76 | 93.2 | 102.2 |
| PTHLH | 95.9 | 102.8 | 76.3 | 93.6 | 88.5 | 82.2 | 100.3 | 118.3 |
| PTHLH | 95.7 | 107.6 | 95.1 | 87.2 | 82.1 | 92.1 | 90.9 | 99.3 |
| PTHR1 | 113.1 | 128.1 | 112.1 | 109.9 | 112.6 | 98.7 | 97.5 | 111.6 |
| PTHR2 | 93.7 | 88.6 | 93.7 | 82.4 | 83.2 | 87.8 | 88.6 | 99.2 |
| PTK2 | 1167.7 | 1575.6 | 917.9 | 219.1 | 157.2 | 253.8 | 1076.1 | 1311.7 |
| PTK2 | 94.3 | 107 | 89.4 | 88.1 | 78.1 | 83.2 | 95.5 | 95.2 |
| PTK2B | 174.8 | 222 | 116.2 | 104.2 | 102.3 | 114.3 | 156.6 | 179.8 |
| PTK2B | 307.3 | 346.1 | 182.1 | 168.7 | 148.5 | 212.9 | 234.2 | 362.5 |
| PTK2B | 97.8 | 111.8 | 101.1 | 85.6 | 94.2 | 104.4 | 98.5 | 98.5 |
| PTK6 | 143.1 | 142 | 145.8 | 135 | 138 | 135.4 | 112.2 | 124.5 |
| PTK7 | 92.4 | 108.7 | 115.7 | 107.3 | 105.3 | 103.5 | 85 | 98.3 |
| PTK7 | 141.6 | 153.4 | 106.4 | 107.9 | 80.2 | 102.9 | 132.1 | 166.3 |
| PTK9 | 111.9 | 130.6 | 97 | 88.4 | 91 | 103.9 | 108.2 | 127.9 |
| PTK9 | 194.5 | 233.2 | 114.8 | 103.8 | 92.1 | 104.4 | 160.9 | 223.3 |
| PTK9L | 830.8 | 1144.1 | 949.3 | 639.7 | 553 | 785.6 | 903.4 | 1273.2 |
| PTMA | 1889.9 | 2581.8 | 907.4 | 776.3 | 696.4 | 1231.8 | 2437 | 5538.4 |
| PTMS | 149.4 | 182.5 | 182.4 | 182.7 | 141.8 | 193.8 | 155.3 | 302.1 |
| PTN | 520.9 | 752.1 | 226.9 | 232.6 | 191 | 261.1 | 503.3 | 598.4 |
| PTOV1 | 1809.9 | 2012.7 | 1655.1 | 1197.3 | 933.4 | 1205.5 | 1813.4 | 4222.1 |
| PTP4A1 | 134.9 | 151.7 | 86.5 | 93.1 | 93.2 | 100.8 | 127.7 | 169.4 |
| PTP4A2 | 4278.6 | 5363.8 | 2785.4 | 4196.2 | 3175.8 | 4095.6 | 4156.8 | 5142.4 |
| PTP4A3 | 221.3 | 288.7 | 169.3 | 133.9 | 123 | 139.6 | 191 | 239 |
| PTP4A3 | 218.1 | 296.4 | 178.3 | 163.9 | 144.2 | 122.5 | 181.6 | 229.8 |
| PTPDC1 | 89.8 | 95.7 | 98 | 89.5 | 84.6 | 82.4 | 87.3 | 87.9 |
| PTPDC1 | 143.6 | 174.1 | 149 | 153.3 | 126.2 | 200.3 | 148 | 201.3 |
| PTPDC1 | 85.2 | 78.9 | 84.8 | 81.9 | 90.8 | 81.5 | 80.6 | 89.5 |
| PTPLA | 627.6 | 815.3 | 576.8 | 384.4 | 282.9 | 442.6 | 591.6 | 1139 |
| PTPLAD1 | 1982.3 | 2316.7 | 1241.4 | 1192.6 | 886.8 | 1017.1 | 1396.9 | 2743.3 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| PTPLAD2 | 560.3 | 609.6 | 277.4 | 366.3 | 399.5 | 334.9 | 520.1 | 608.3 |
| PTPLB | 1264.5 | 1484.5 | 811.4 | 973.6 | 666.2 | 1046.6 | 1091.5 | 1778.7 |
| PTPN1 | 836.4 | 1094.5 | 741.2 | 1204.3 | 973.9 | 1311 | 747.4 | 1066.3 |
| PTPN11 | 2224.2 | 2743.4 | 1044.9 | 1560.3 | 1009.7 | 1989.6 | 2109.3 | 2947.5 |
| PTPN12 | 1647 | 2115.6 | 737.6 | 1166.7 | 958.7 | 1918.8 | 1474.6 | 1964.4 |
| PTPN13 | 71 | 80.4 | 87.9 | 93 | 83.5 | 97.5 | 74.2 | 80.6 |
| PTPN14 | 82.5 | 88.4 | 101.2 | 97.5 | 89.5 | 99.7 | 80.9 | 92.5 |
| PTPN18 | 155 | 192.6 | 107 | 98.3 | 93.1 | 100 | 151.2 | 190.3 |
| PTPN2 | 95.2 | 90.7 | 83.5 | 73.8 | 74.5 | 85.2 | 82.2 | 98 |
| PTPN2 | 802 | 979.3 | 429.2 | 448.1 | 408.6 | 621.1 | 429.3 | 589.3 |
| PTPN20A | 70.7 | 75.5 | 74.2 | 79.4 | 77.5 | 71.2 | 70.8 | 73.2 |
| PTPN20B | 73.1 | 76.8 | 85.7 | 82.5 | 82.7 | 82.9 | 74.6 | 75.3 |
| PTPN21 | 83.7 | 87.6 | 88.4 | 81.1 | 78 | 82.3 | 79.2 | 92.3 |
| PTPN22 | 181.3 | 216.7 | 139.5 | 113.6 | 105.1 | 127 | 102.8 | 113.6 |
| PTPN22 | 80.7 | 93.8 | 85.4 | 79.4 | 77.4 | 86.7 | 90.4 | 90.2 |
| PTPN22 | 291.4 | 338 | 172.4 | 154.4 | 124.5 | 200.3 | 164.7 | 205.7 |
| PTPN23 | 104 | 128.6 | 146 | 146 | 134.8 | 166.3 | 103.4 | 126 |
| PTPN3 | 157 | 191 | 111.4 | 113.7 | 105.8 | 116.2 | 138.3 | 170.4 |
| PTPN4 | 192.5 | 191.8 | 146.6 | 179.3 | 133.9 | 196.6 | 157.6 | 215.6 |
| PTPN5 | 119.2 | 158.5 | 98.5 | 94.2 | 82.4 | 84.2 | 131.7 | 150.1 |
| PTPN5 | 114.2 | 143.2 | 99.4 | 91.5 | 91.7 | 82.2 | 119.2 | 152.3 |
| PTPN6 | 108.6 | 126.8 | 78.5 | 90.7 | 83 | 83.4 | 108.4 | 136.4 |
| PTPN6 | 1284.1 | 1671.2 | 1446.6 | 865.1 | 708.3 | 1607.2 | 1147.1 | 1786.6 |
| PTPN7 | 122.3 | 133.1 | 117.1 | 117.1 | 106.4 | 122.1 | 127.7 | 135.1 |
| PTPN7 | 1224.7 | 1438.9 | 1330.6 | 722 | 572.2 | 937.1 | 1051.9 | 2105.1 |
| PTPN9 | 137.1 | 176 | 178.7 | 150.7 | 145.1 | 185.7 | 144.6 | 259.9 |
| PTPN9 | 121.3 | 141.4 | 104.3 | 93.5 | 97.7 | 95.6 | 103.1 | 121.7 |
| PTPNS1 | 1635.6 | 1975.4 | 735.5 | 857.4 | 897.3 | 969.2 | 1433.8 | 1995.8 |
| PTPNS1 | 165.6 | 248.3 | 193.6 | 241.2 | 201.5 | 337.9 | 161.4 | 237 |
| PTPRA | 92.3 | 106.6 | 104.4 | 91.4 | 87.4 | 93.6 | 88.7 | 110.3 |
| PTPRA | 289.7 | 384.7 | 211.7 | 251.4 | 228.2 | 314.9 | 260.8 | 317.9 |
| PTPRA | 276.4 | 321.6 | 159.1 | 184.6 | 157.4 | 217.9 | 235.8 | 431.4 |
| PTPRA | 182.1 | 204.8 | 124.6 | 109.7 | 109.9 | 119.5 | 168.4 | 176.2 |
| PTPRB | 98.1 | 116.7 | 98 | 96 | 86.9 | 101.6 | 95.8 | 94.2 |
| PTPRC | 75.6 | 82.9 | 90.3 | 75.7 | 79.3 | 75.8 | 80.9 | 74.9 |
| PTPRC | 294.9 | 392.2 | 119.9 | 115.1 | 106.8 | 93.6 | 226.5 | 255.7 |
| PTPRC | 377.4 | 517.3 | 109.7 | 119.6 | 113.7 | 85.6 | 268.9 | 347.9 |
| PTPRC | 147.2 | 174.6 | 111.7 | 93 | 89.3 | 80.6 | 136.9 | 149.5 |
| PTPRCAP | 118.5 | 138.9 | 112.7 | 102.7 | 96.3 | 106 | 119.4 | 138.1 |
| PTPRD | 91.7 | 96.9 | 97.3 | 84.4 | 90.3 | 91.1 | 99.4 | 109.6 |
| PTPRD | 83.1 | 79.8 | 101.9 | 87.9 | 91 | 86.9 | 77.7 | 85.3 |
| PTPRE | 437.6 | 558 | 499.1 | 771.1 | 595.7 | 907.9 | 546.5 | 1219.1 |
| PTPRE | 129.7 | 131.6 | 99.7 | 107.5 | 97.8 | 93.8 | 123 | 144.7 |
| PTPRE | 147.3 | 148 | 112.9 | 97.6 | 85.5 | 97.2 | 128.6 | 159.2 |
| PTPRF | 2120 | 3050.2 | 839.8 | 1054.3 | 1079.6 | 1261.6 | 1943.7 | 1887.2 |
| PTPRF | 448.5 | 624.5 | 620 | 983.1 | 812.5 | 1120.1 | 434.7 | 793.9 |
| PTPRG | 155.2 | 160 | 104.2 | 93.3 | 96.3 | 104.8 | 136.2 | 169.3 |
| PTPRH | 133.5 | 151 | 101.3 | 90 | 90.4 | 98.2 | 124.7 | 138.8 |
| PTPRK | 303.5 | 330.1 | 277.4 | 316.1 | 232.1 | 408.1 | 257.2 | 357.9 |
| PTPRM | 75.1 | 83.9 | 93.6 | 80.1 | 77.8 | 87.2 | 72.3 | 82.6 |

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|---------|--------|---------|--------|--------|--------|--------|--------|--------|
| PTPRN | 78.4 | 87.6 | 95.8 | 81.8 | 82.5 | 88.7 | 81.1 | 94 |
| PTPRN2 | 319.7 | 387.4 | 208.1 | 210.8 | 161.5 | 269.8 | 266.4 | 385.4 |
| PTPRO | 162.2 | 208.7 | 146.1 | 156.5 | 120.9 | 154.7 | 166.6 | 268.7 |
| PTPRO | 204 | 250.6 | 168.4 | 179.9 | 131 | 243.9 | 200.3 | 316.4 |
| PTPRR | 87.6 | 102.4 | 100.3 | 84.6 | 92.9 | 85.1 | 94.3 | 107.3 |
| PTPRR | 118.1 | 138.8 | 125.4 | 115 | 117.9 | 121.1 | 119.7 | 116 |
| PTPRS | 99 | 109.6 | 91.4 | 85.4 | 83 | 97.6 | 111.1 | 113.8 |
| PTPRS | 76.4 | 96 | 92.1 | 86.7 | 97.2 | 91.3 | 87.1 | 107.1 |
| PTPRT | 91.4 | 102.7 | 87.1 | 89.2 | 77.9 | 80.5 | 103.8 | 106.9 |
| PTPRT | 143.3 | 176.3 | 89.1 | 90.7 | 90 | 86.4 | 128.1 | 155.1 |
| PTPRT | 90.1 | 97.5 | 71.8 | 83.6 | 84.6 | 81.2 | 82.2 | 93.1 |
| PTPRU | 123.1 | 122.2 | 103.5 | 100.9 | 79.4 | 101.8 | 95.6 | 120.8 |
| PTPRU | 86.3 | 134.5 | 84.1 | 90 | 79.9 | 76.4 | 103.3 | 114.5 |
| PTPRZ1 | 127.8 | 137 | 87.8 | 90.8 | 95.1 | 89.6 | 122.4 | 127.5 |
| PTRF | 117.6 | 147.1 | 80.8 | 81.8 | 75.8 | 87.6 | 153.6 | 187.2 |
| PTRH1 | 380.2 | 492.9 | 265 | 186.9 | 173.2 | 182.6 | 310.7 | 304.5 |
| PTRH2 | 1818.6 | 2104.8 | 1284.5 | 1326.1 | 911.8 | 1376.6 | 1546.7 | 2213.3 |
| PTRH2 | 220.2 | 269.3 | 168.5 | 139.2 | 133.1 | 171.5 | 177.4 | 233.3 |
| PTS | 1151 | 1361.8 | 531.8 | 534.2 | 421.6 | 649.7 | 1241.1 | 2035.9 |
| PTTG1 | 7755.5 | 10025.4 | 5527.5 | 2401.2 | 1668.8 | 1808.9 | 6876.2 | 7355.2 |
| PTTG1IP | 3952.1 | 5116.5 | 1986.2 | 3123.8 | 2442.4 | 3329.7 | 3544.9 | 5063.1 |
| PTTG2 | 380.2 | 465 | 209 | 199.6 | 171.4 | 186.6 | 321.6 | 381.8 |
| PTTG3 | 3691.9 | 4790.8 | 1818 | 649.3 | 543.4 | 648.7 | 3604.2 | 4870.8 |
| PTX3 | 95.4 | 101.9 | 93.6 | 90.8 | 76.3 | 81.4 | 84.6 | 95.4 |
| PUM1 | 1423.8 | 1903.1 | 1389.5 | 2247.5 | 1634.4 | 2412.6 | 1277.2 | 1682.1 |
| PUM1 | 2145 | 2551.1 | 1442.7 | 1810.8 | 1339.4 | 1632.3 | 2136.5 | 2946.1 |
| PUM2 | 1087.8 | 1542 | 1085.5 | 1230.1 | 896.9 | 1865 | 1038.4 | 2072.9 |
| PUNC | 76 | 86.9 | 83.6 | 81.4 | 73.8 | 82.5 | 77.7 | 97.3 |
| PURA | 495.3 | 636.5 | 372.9 | 423.4 | 288 | 669.3 | 454.5 | 1062.1 |
| PURB | 1429 | 1889.6 | 1124.4 | 2282.4 | 1777.7 | 2468.3 | 1212.9 | 2388.1 |
| PURG | 109.6 | 115.6 | 155.9 | 152 | 140 | 154.3 | 107.1 | 126.5 |
| PURG | 105.3 | 107.2 | 78.7 | 81.5 | 79.8 | 89.5 | 88.4 | 115.6 |
| PUS1 | 3772 | 4490.1 | 2569.9 | 1355 | 1194.5 | 1457.7 | 2795 | 2670.6 |
| PUS1 | 124.6 | 163.4 | 109.6 | 95.7 | 91.2 | 101.6 | 130.8 | 137.6 |
| PUS1 | 569.3 | 661.6 | 405.9 | 204.2 | 203.9 | 209.5 | 473.7 | 697.9 |
| PUS3 | 407.4 | 500.6 | 162.1 | 121.9 | 113.4 | 172.7 | 382.4 | 710.6 |
| PUS7 | 1187 | 1604.8 | 684.7 | 676.6 | 453.2 | 968.5 | 920.8 | 1096.5 |
| PUS7L | 283.9 | 316.5 | 275.9 | 241.5 | 156.7 | 299.7 | 231.4 | 397.9 |
| PUSL1 | 300.9 | 383.1 | 274.9 | 227.2 | 183.3 | 240.3 | 283.2 | 483.9 |
| PVALB | 77.3 | 80.1 | 80.8 | 80.2 | 82.2 | 90.9 | 74.2 | 78.9 |
| PVR | 241.3 | 280.6 | 149.4 | 137.9 | 116.8 | 164.3 | 228.9 | 282.9 |
| PVRL1 | 105.2 | 148.3 | 97.8 | 106.6 | 90.2 | 99.1 | 96.9 | 118.3 |
| PVRL1 | 132.6 | 154.8 | 106.8 | 95 | 94.5 | 102.4 | 130.5 | 205.8 |
| PVRL1 | 94.6 | 93.7 | 103.6 | 79.4 | 77.9 | 92.3 | 108.1 | 103 |
| PVRL1 | 79.4 | 78.5 | 81.3 | 87.6 | 82.9 | 78.3 | 79.2 | 87 |
| PVRL2 | 314 | 402 | 241.6 | 122.9 | 127.3 | 113.6 | 342.8 | 530 |
| PVRL2 | 344.5 | 483.4 | 387.2 | 171.7 | 169 | 210.6 | 383.2 | 624 |
| PVRL2 | 120.1 | 145.1 | 121.8 | 95.1 | 97.8 | 99.4 | 112.4 | 151.9 |
| PVRL3 | 144.2 | 133.6 | 101.7 | 97 | 83.4 | 95.9 | 123.7 | 163.3 |
| PVRL4 | 102.2 | 119.1 | 90.5 | 77.3 | 85.9 | 96 | 97 | 104.3 |

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|---------|---------|---------|---------|--------|--------|---------|---------|---------|
| PWP1 | 2065.9 | 2473.8 | 1210.1 | 1319.4 | 859.1 | 1618.8 | 1589.7 | 2565.5 |
| PWP2H | 139 | 155.2 | 104.7 | 91.4 | 88.9 | 94.6 | 148.4 | 150.2 |
| PWWP2 | 208.4 | 285.5 | 270.4 | 189.9 | 201.9 | 262.7 | 224.8 | 416.5 |
| PWWP2 | 109.7 | 142.4 | 117.6 | 89.1 | 93.6 | 103.2 | 116.8 | 165.1 |
| PXDN | 113.4 | 136.9 | 83.6 | 88.8 | 83.8 | 84.9 | 108.5 | 155.7 |
| PXDNL | 83.5 | 96.5 | 93.4 | 82.6 | 87.9 | 89.3 | 84.5 | 85.3 |
| PXK | 335.1 | 497.9 | 228.1 | 287.5 | 294.3 | 448.8 | 485.5 | 648.3 |
| PXMP2 | 1853.1 | 2437.1 | 1653.3 | 1461.8 | 1142.3 | 1554.5 | 1408.1 | 2078.2 |
| PXMP2 | 794.1 | 987.6 | 550.1 | 467.6 | 389 | 484.4 | 584.6 | 668.2 |
| PXMP3 | 1494.6 | 1872.1 | 877.3 | 683.9 | 477.8 | 1013.2 | 1223.2 | 1890.2 |
| PXMP4 | 222.9 | 263.6 | 158.7 | 150.4 | 130.7 | 129.7 | 177.3 | 222 |
| PXMP4 | 158.1 | 170.8 | 144.9 | 168.4 | 132.8 | 118.8 | 154.6 | 183.7 |
| PXN | 98.1 | 105.4 | 109.9 | 106.2 | 100.7 | 107.4 | 100 | 110.8 |
| PXT1 | 76.2 | 84.4 | 89.4 | 84.7 | 75.9 | 78.8 | 75.2 | 77.1 |
| PYCARD | 852 | 1006.4 | 444.5 | 336.2 | 311 | 361.1 | 674.7 | 670.1 |
| PYCARD | 8221.2 | 9958.5 | 7944.8 | 6685.1 | 5248 | 7214.8 | 6498.5 | 7475.6 |
| PYCR1 | 89.9 | 114.4 | 99.2 | 84 | 77 | 87.2 | 97.8 | 110.3 |
| PYCR2 | 2209.1 | 2762.1 | 1336 | 1004.5 | 819.2 | 1130.7 | 1700.7 | 2678.3 |
| PYCR1 | 143.9 | 173.8 | 98.8 | 103.4 | 81.2 | 94.3 | 121.2 | 188.6 |
| PYDC1 | 88.6 | 94.2 | 96.5 | 87.1 | 87.8 | 85.3 | 96.5 | 100 |
| PYGB | 372.9 | 486.8 | 394.6 | 245.6 | 204.7 | 358.6 | 344.7 | 592.1 |
| PYGL | 2096.6 | 2504.2 | 594.1 | 434.4 | 380.9 | 693.4 | 1563.9 | 2857.1 |
| PYGM | 111.4 | 133.8 | 96.9 | 90.2 | 92 | 98.9 | 109.4 | 128.5 |
| PYGO1 | 93.9 | 107.8 | 109.2 | 104 | 107.4 | 101 | 96 | 104.7 |
| PYGO2 | 121.4 | 162.1 | 146 | 129.4 | 112.3 | 134.4 | 124.9 | 178.7 |
| PYHIN1 | 111.5 | 127 | 103.3 | 95.2 | 92.8 | 104.1 | 118.5 | 119 |
| PYHIN1 | 105.4 | 124.2 | 101.8 | 110.1 | 105.6 | 123.2 | 107 | 104 |
| PYHIN1 | 120.6 | 163.7 | 131.3 | 132.4 | 130.1 | 157.4 | 116.1 | 121.7 |
| PYY | 81 | 91.5 | 87.6 | 88.4 | 88 | 84 | 86.6 | 94.6 |
| PYY2 | 67.7 | 80.1 | 70.4 | 76.7 | 72 | 80.8 | 80.6 | 73.6 |
| PZP | 103.7 | 122.1 | 92.9 | 91 | 90.9 | 91.3 | 97.1 | 107.2 |
| QARS | 8919.2 | 11544.4 | 5075.3 | 5000.4 | 3673.4 | 5575.7 | 7576.9 | 7489.8 |
| QDPR | 2124.1 | 2841.3 | 1391.6 | 998.9 | 747.2 | 1059.3 | 1839.5 | 2397.9 |
| QIL1 | 3544.5 | 4453.4 | 2147.1 | 1542.7 | 1220.9 | 1960.6 | 2822.5 | 3279.2 |
| QKI | 290.2 | 409.9 | 96.6 | 103.8 | 90.1 | 93.3 | 245.7 | 318 |
| QKI | 297.5 | 435 | 144.7 | 136.2 | 144.6 | 171.9 | 217.2 | 263.1 |
| QKI | 291.7 | 414.1 | 141.3 | 162.3 | 148.5 | 169 | 223.2 | 262.8 |
| QP-C | 13735.8 | 15677.8 | 11830.8 | 10985 | 8794.4 | 12597.4 | 11023.8 | 14170.4 |
| QPCT | 263.8 | 304.4 | 165.1 | 156.9 | 127 | 234.6 | 229.4 | 370.9 |
| QPCTL | 151.7 | 178 | 144.9 | 147.5 | 134.5 | 99.4 | 138.8 | 179.3 |
| QPRT | 4186.9 | 4905.7 | 2835.7 | 2805.9 | 2696 | 2996 | 3678.1 | 3623 |
| QRICH1 | 124 | 152.2 | 106.8 | 88.6 | 84.6 | 98.9 | 109 | 156.5 |
| QRICH1 | 71.8 | 90.6 | 93.5 | 88.7 | 82.8 | 81.4 | 82.6 | 86.7 |
| QRICH1 | 1652.3 | 2381.1 | 1807.1 | 2147.5 | 1855.8 | 2587.8 | 1382.8 | 1710 |
| QRICH2 | 75.9 | 84.5 | 94.5 | 84.5 | 78.3 | 77.8 | 76.5 | 90.1 |
| QRSL1 | 214.1 | 231.2 | 136.6 | 155.1 | 122.3 | 157.5 | 164.7 | 242.5 |
| QSCN6 | 1348.4 | 1449.9 | 711.5 | 542.7 | 405 | 710.9 | 1263.8 | 1786 |
| QSCN6 | 219 | 305.7 | 242.2 | 221.9 | 170.2 | 346.6 | 184 | 301.5 |
| QSCN6L1 | 407.7 | 480.6 | 350.8 | 265.6 | 254.2 | 320.3 | 294.6 | 347 |
| QSER1 | 224.6 | 275 | 115.9 | 117.5 | 91.3 | 107.4 | 217.2 | 268.5 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| QTRT1 | 347.5 | 398.8 | 163.2 | 119.7 | 121.4 | 159.2 | 277.9 | 337.2 |
| QTRTD1 | 520.4 | 642.2 | 193 | 178 | 143.2 | 279.9 | 419.1 | 580.9 |
| R3HDM1 | 191 | 234.8 | 133.3 | 124.3 | 114 | 156.6 | 184.2 | 276.3 |
| R3HDM2 | 134.3 | 170.8 | 122.3 | 126.9 | 118.7 | 127.4 | 139.2 | 152.3 |
| R3HDML | 89.4 | 93.3 | 88.9 | 91.7 | 82.4 | 78.4 | 91.6 | 109.8 |
| RAB10 | 4399.5 | 5465.6 | 2718.5 | 3722.1 | 2395.5 | 4200.5 | 4050.4 | 5490.1 |
| RAB11A | 3555.9 | 5122.9 | 2879.5 | 3004.3 | 2102.3 | 3198.5 | 3041.9 | 3978.5 |
| RAB11B | 116.5 | 155.1 | 116.7 | 93.1 | 107.1 | 85.9 | 111 | 150.8 |
| RAB11FIP1 | 100.4 | 113.3 | 100.9 | 81.3 | 86.6 | 85.3 | 99.1 | 125.1 |
| RAB11FIP1 | 144.2 | 198 | 115.1 | 119.5 | 104 | 107.9 | 147.6 | 284.8 |
| RAB11FIP1 | 2327 | 2846.1 | 1455.7 | 2342.5 | 1792.6 | 2599.5 | 2174.3 | 2847 |
| RAB11FIP2 | 460.7 | 536.4 | 299.3 | 295.8 | 250.7 | 376.8 | 329.1 | 633.1 |
| RAB11FIP3 | 420.8 | 515.8 | 399.6 | 349.4 | 358 | 468.9 | 346.4 | 386.7 |
| RAB11FIP4 | 82.6 | 93.8 | 89 | 80.9 | 90.9 | 87.6 | 84.9 | 97.3 |
| RAB11FIP5 | 373 | 426.2 | 338.2 | 242.7 | 241.9 | 251.6 | 371.2 | 385.5 |
| RAB12 | 109.5 | 130 | 101.6 | 85.2 | 87.8 | 92.7 | 104.8 | 128 |
| RAB13 | 329.4 | 390.5 | 159.3 | 131.7 | 124.7 | 116.8 | 357 | 360 |
| RAB14 | 110.2 | 120.3 | 115.8 | 106 | 89.4 | 100.3 | 110.9 | 134.1 |
| RAB15 | 140 | 198.4 | 104.1 | 97 | 92.7 | 95.8 | 147 | 204.4 |
| RAB17 | 292.2 | 358 | 260.8 | 184.8 | 178.6 | 221.9 | 237.3 | 174.9 |
| RAB18 | 155 | 168.2 | 121.4 | 113.1 | 103.1 | 151.4 | 137.3 | 294.5 |
| RAB19B | 83.4 | 97 | 87.7 | 86.4 | 84.7 | 88.5 | 89.1 | 96.8 |
| RAB1A | 428.1 | 588.9 | 268.9 | 375.2 | 259 | 383.8 | 392.6 | 552.1 |
| RAB1B | 246.5 | 322.3 | 203.4 | 187.7 | 190.4 | 161.3 | 245.1 | 430.2 |
| RAB2 | 870.5 | 1217.9 | 462.4 | 428.1 | 301.9 | 403.5 | 796 | 1280.7 |
| RAB20 | 132.6 | 169.3 | 116.7 | 118.1 | 114.7 | 118.8 | 139.7 | 161.3 |
| RAB21 | 782.7 | 1003.9 | 327.8 | 365.8 | 267.8 | 463.2 | 730.2 | 1223.2 |
| RAB22A | 605.9 | 942 | 423.1 | 996.2 | 705.8 | 1034 | 559.1 | 644.4 |
| RAB23 | 84.2 | 84.3 | 87.7 | 81.6 | 81.7 | 85.9 | 83 | 86.5 |
| RAB23 | 101.9 | 125.5 | 88.5 | 86.2 | 80.9 | 87.4 | 108.1 | 125.3 |
| RAB23 | 1119.4 | 1471.2 | 784.5 | 698.6 | 548.7 | 818 | 922.8 | 1457.5 |
| RAB24 | 246 | 268.8 | 175.1 | 181.1 | 177.7 | 218.6 | 189 | 191.8 |
| RAB24 | 820.4 | 1009.7 | 669.9 | 728.8 | 707.5 | 1221 | 644.2 | 857.2 |
| RAB24 | 596.3 | 661.7 | 240 | 346.1 | 331.9 | 444.7 | 497.7 | 604.5 |
| RAB24 | 171.7 | 242.5 | 113.9 | 120.4 | 110.5 | 113.6 | 170.1 | 178.5 |
| RAB25 | 134.1 | 122.7 | 89.1 | 93.9 | 94 | 91 | 107.6 | 121.2 |
| RAB26 | 149.1 | 168 | 114.8 | 110.5 | 96.7 | 105 | 130.5 | 133.8 |
| RAB27A | 335.7 | 317.3 | 282.2 | 301.3 | 223.5 | 327.9 | 342.6 | 429.2 |
| RAB27A | 143.7 | 182.4 | 116.4 | 110.5 | 105 | 117.5 | 141 | 128.2 |
| RAB27A | 122.4 | 156.1 | 94.4 | 109.4 | 91.6 | 109.4 | 93.9 | 114 |
| RAB27B | 106 | 120.3 | 90.1 | 90.7 | 87.3 | 93.6 | 108.6 | 116 |
| RAB28 | 393.4 | 636.2 | 251.2 | 190.4 | 162.2 | 236.2 | 349.7 | 505.5 |
| RAB28 | 341.2 | 461.5 | 275.8 | 232.4 | 193.7 | 269.1 | 263.2 | 349.6 |
| RAB2B | 1217.7 | 1524.8 | 820.3 | 647.6 | 640.6 | 789.4 | 1248 | 1853.5 |
| RAB30 | 80.7 | 111.2 | 90.8 | 75.8 | 86.5 | 86.3 | 85.7 | 99.8 |
| RAB31 | 4002.5 | 4722.9 | 3484.8 | 6705 | 4221.8 | 7524.6 | 3625.2 | 5231.1 |
| RAB32 | 2558.1 | 3298.5 | 2561.3 | 2301.9 | 1935.5 | 3077.5 | 1854.1 | 3262.8 |
| RAB33A | 401.9 | 543.3 | 319.3 | 258.1 | 246.8 | 352.7 | 348.7 | 370.4 |
| RAB33B | 146.3 | 148.5 | 102.5 | 109.3 | 101.8 | 118.5 | 139.5 | 192.5 |
| RAB34 | 79.2 | 87.9 | 83.4 | 85.8 | 80.3 | 84.3 | 82.2 | 88.3 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| RAB35 | 852.8 | 1089.1 | 436.1 | 402.1 | 363.9 | 425 | 820.5 | 680.1 |
| RAB36 | 84.9 | 99.5 | 80.5 | 85 | 75.2 | 82.6 | 84.9 | 104.8 |
| RAB37 | 130 | 111 | 118.9 | 208 | 219.4 | 271.3 | 116.5 | 144 |
| RAB37 | 103.6 | 107.9 | 105.6 | 151.5 | 157.9 | 155.5 | 100.5 | 110.8 |
| RAB37 | 117.4 | 132.7 | 96.5 | 97.2 | 88 | 85.7 | 117 | 139 |
| RAB38 | 150.6 | 201.1 | 126.5 | 126.2 | 110.6 | 131.8 | 167 | 232.3 |
| RAB39 | 92.1 | 117.3 | 101.3 | 88.8 | 85.2 | 92.6 | 95.2 | 104.1 |
| RAB39B | 74.9 | 79 | 85.1 | 77.6 | 73.2 | 80.4 | 71.5 | 77.5 |
| RAB3A | 105.6 | 111 | 92.6 | 74 | 81.1 | 83.8 | 103.5 | 123.9 |
| RAB3B | 102.9 | 132.7 | 106.6 | 97.7 | 94.5 | 87.2 | 103.3 | 109.7 |
| RAB3C | 123.6 | 155.4 | 113.5 | 256.8 | 223.3 | 367.2 | 130.7 | 128.8 |
| RAB3D | 110.7 | 137.4 | 102.5 | 115.3 | 86.2 | 105.1 | 123.1 | 115.9 |
| RAB3GAP1 | 1078.7 | 1521.9 | 1018 | 1714.9 | 1358.6 | 1809.6 | 962.2 | 1581.8 |
| RAB3IL1 | 834.6 | 1152.3 | 667.3 | 393 | 311.5 | 430.2 | 752.7 | 836.7 |
| RAB3IP | 236.2 | 268.8 | 162.1 | 216.3 | 224.3 | 232.5 | 185.3 | 196.7 |
| RAB3IP | 244.5 | 324.9 | 235.9 | 267.8 | 217.6 | 252.8 | 242.4 | 331.5 |
| RAB40A | 68.2 | 79.8 | 94.1 | 99.2 | 91.6 | 91 | 81.4 | 82.1 |
| RAB40B | 552.8 | 676.4 | 345.3 | 532.7 | 453.4 | 598.7 | 508 | 622.8 |
| RAB40C | 2632.5 | 3392.6 | 2010.4 | 1508.2 | 1450.4 | 1593.7 | 2046.5 | 2074.5 |
| RAB41 | 100.7 | 117.9 | 101.3 | 86.5 | 86.3 | 89 | 103.5 | 116.3 |
| RAB42 | 100.6 | 110.9 | 116.4 | 111.4 | 102 | 101.4 | 92.7 | 92.6 |
| RAB43 | 153.4 | 173.4 | 138.6 | 168.1 | 159.1 | 207.2 | 146.5 | 208.1 |
| RAB4A | 912.6 | 1257.8 | 623.4 | 523.8 | 398.6 | 633.8 | 666.4 | 1253.1 |
| RAB4B | 229.6 | 281.3 | 202 | 165.5 | 171.7 | 185.9 | 219 | 286.1 |
| RAB5A | 772.6 | 1029 | 380.1 | 387.6 | 290.3 | 537.8 | 687.8 | 1180.5 |
| RAB5B | 1027.6 | 1418.1 | 1021.2 | 1259.8 | 1240 | 1329.7 | 890.4 | 1266.3 |
| RAB5C | 1089 | 1428.3 | 547.3 | 556.6 | 492.5 | 893.5 | 859.9 | 1868 |
| RAB5C | 804.1 | 1180.5 | 430 | 379 | 339.3 | 521 | 749.4 | 1170.8 |
| RAB6A | 132.9 | 162.5 | 89.2 | 91.4 | 90.3 | 108.3 | 128.7 | 217.2 |
| RAB6B | 173.3 | 203.2 | 115.3 | 121.5 | 121.7 | 128.7 | 154.2 | 186 |
| RAB6C | 83.3 | 86.3 | 86.3 | 87.3 | 81.6 | 82.7 | 84 | 92.6 |
| RAB6IP1 | 432.6 | 555.6 | 520.8 | 542 | 539 | 839.9 | 621.9 | 1350.2 |
| RAB6IP2 | 96.3 | 110 | 78.7 | 81.3 | 77.3 | 80.6 | 94.9 | 104 |
| RAB7 | 5158.6 | 6251.2 | 3032.6 | 4258.5 | 3239.1 | 5765.5 | 4539.5 | 5286 |
| RAB7B | 503.6 | 589.3 | 385.9 | 469.2 | 485.1 | 517.5 | 560.8 | 781.5 |
| RAB7L1 | 592.9 | 847.3 | 591.5 | 393.3 | 325.1 | 563.7 | 471.1 | 892 |
| RAB8A | 2359.2 | 3260.6 | 1693.1 | 1480 | 1086.9 | 1604.8 | 2153.3 | 3018.7 |
| RAB8B | 1008.7 | 1367.3 | 346.2 | 577.4 | 581.9 | 884.2 | 1048.3 | 1748.3 |
| RAB9A | 1109.7 | 1345.3 | 650.7 | 946.3 | 729.9 | 1114.4 | 924.5 | 1508.7 |
| RAB9B | 193.6 | 257.8 | 142.9 | 169.8 | 149.7 | 151.9 | 173.2 | 185.5 |
| RABAC1 | 414.4 | 529.6 | 336.3 | 307.3 | 237.8 | 303.5 | 430.7 | 588.5 |
| RABEP1 | 368.9 | 543.9 | 437.4 | 512.4 | 379.8 | 946.9 | 277 | 505.1 |
| RABEP2 | 93.6 | 115.5 | 91.1 | 79 | 87.7 | 83.9 | 93.5 | 113.7 |
| RABEP2 | 103.9 | 125 | 89.4 | 92.1 | 84.8 | 85.8 | 107.6 | 130.2 |
| RABEPK | 1507 | 2016 | 644.7 | 542.8 | 338.7 | 550.4 | 1199.1 | 1500.4 |
| RABGAP1 | 324.5 | 420.2 | 362.7 | 468.5 | 468.6 | 507.5 | 376.2 | 516 |
| RABGEF1 | 124.7 | 131.6 | 100 | 102.1 | 94.7 | 98.6 | 122.3 | 165.7 |
| RABGGTA | 123.6 | 132.7 | 118.8 | 98.2 | 103.3 | 112.6 | 115.4 | 115 |
| RABGGTA | 138.8 | 188.6 | 134.9 | 111.1 | 100.7 | 124 | 140.1 | 171.6 |
| RABGGTB | 613.8 | 759.6 | 295.2 | 242 | 210.9 | 336.8 | 477.3 | 781.3 |

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|----------|---------|---------|--------|--------|--------|--------|---------|---------|
| RABIF | 129.6 | 148.5 | 102.9 | 92.5 | 93.8 | 115.6 | 116.4 | 153.6 |
| RABL2A | 117.7 | 137.5 | 115.4 | 113.7 | 104.6 | 105.5 | 120.3 | 147.8 |
| RABL2A | 158 | 195.4 | 122.3 | 126.9 | 102.4 | 130.3 | 129.4 | 148.8 |
| RABL2B | 585.1 | 674.5 | 318.8 | 295.6 | 275.8 | 352.9 | 346.8 | 372.6 |
| RABL3 | 912.4 | 1189.6 | 417 | 381.6 | 313.9 | 543.1 | 694 | 925.2 |
| RABL4 | 369.3 | 495 | 256.4 | 240.1 | 188.3 | 260.5 | 349.7 | 487.4 |
| RABL5 | 98 | 117.2 | 92.6 | 79.7 | 82.4 | 79 | 98.5 | 112.9 |
| RAC1 | 8535.4 | 10709.4 | 6588 | 5254.6 | 4030.6 | 5255.8 | 7570.3 | 12274 |
| RAC1 | 121.1 | 137.4 | 88.9 | 96.7 | 85.7 | 91.4 | 109.1 | 142.5 |
| RAC1 | 75.2 | 84.5 | 85.8 | 82.2 | 77.4 | 82.3 | 77.7 | 76.2 |
| RAC2 | 10545.6 | 12764.2 | 6463 | 4591.2 | 4553.6 | 4828.8 | 10480.6 | 12373.2 |
| RAC3 | 251.1 | 282.2 | 256.3 | 201.9 | 208.9 | 293.1 | 203.9 | 307.6 |
| RACGAP1 | 866.9 | 1051.7 | 638 | 636.1 | 498.5 | 725.8 | 739 | 1130.7 |
| RAD1 | 270.1 | 320 | 170.5 | 161.4 | 148.1 | 146.9 | 226 | 334.8 |
| RAD1 | 76.8 | 105.1 | 92.2 | 87.5 | 80.6 | 82.7 | 86.7 | 91.2 |
| RAD17 | 90.4 | 102.1 | 92.8 | 89 | 77.6 | 86.7 | 89.5 | 104.1 |
| RAD17 | 201.9 | 251.3 | 181.9 | 175 | 157.7 | 209.4 | 174.7 | 244.4 |
| RAD17 | 112.2 | 130.2 | 95 | 94.1 | 89.9 | 76.5 | 102.3 | 134.7 |
| RAD18 | 99.6 | 108.5 | 111.8 | 111.7 | 90 | 105.9 | 96 | 108.9 |
| RAD21 | 3109.2 | 3293.6 | 978.7 | 892.9 | 539.5 | 1136.5 | 2613.8 | 4527.1 |
| RAD23A | 1468.5 | 1993.1 | 1116.6 | 671.9 | 533.7 | 865.6 | 1473.5 | 3123.3 |
| RAD23B | 730.5 | 909.8 | 675.6 | 827.9 | 489.4 | 902 | 776.7 | 1560.7 |
| RAD50 | 267.6 | 413.8 | 249.1 | 367.5 | 328.7 | 589.3 | 246.5 | 314.4 |
| RAD50 | 94.9 | 92 | 93.7 | 87.1 | 78.5 | 90.9 | 94.9 | 99.3 |
| RAD51 | 448.9 | 602.7 | 295.7 | 302.9 | 236.5 | 335.3 | 378.8 | 485.3 |
| RAD51 | 310.6 | 374 | 188.3 | 125.7 | 143.7 | 154.4 | 245.4 | 348.5 |
| RAD51 | 600.1 | 783.9 | 210.2 | 150.2 | 152.1 | 178.5 | 393.9 | 476.9 |
| RAD51AP1 | 1302.7 | 1490.2 | 692 | 793.7 | 673 | 1043.2 | 1085.7 | 1651.3 |
| RAD51C | 1815.2 | 2253.6 | 1094.7 | 791 | 626.5 | 843.1 | 1536 | 2618.9 |
| RAD51C | 77.6 | 77.9 | 96.9 | 89.8 | 78.2 | 90.2 | 74.8 | 85.9 |
| RAD51C | 2478.7 | 3072.6 | 1273.2 | 864.7 | 766.9 | 1013 | 1979.2 | 2421.3 |
| RAD51L1 | 105.7 | 121.1 | 91 | 83.8 | 80.4 | 88.2 | 101 | 101.5 |
| RAD51L1 | 132.5 | 171.7 | 97.1 | 81.2 | 85.5 | 90.5 | 127 | 150.4 |
| RAD51L1 | 103.7 | 145.9 | 96.1 | 85.4 | 78.3 | 97.5 | 129.8 | 137.2 |
| RAD51L3 | 217.5 | 266.5 | 185 | 138.8 | 127.6 | 140.4 | 188.3 | 189 |
| RAD51L3 | 106.5 | 120 | 98.3 | 94.7 | 86.1 | 83.9 | 97.4 | 96.9 |
| RAD51L3 | 187.8 | 239.5 | 145.8 | 122.5 | 118 | 127.1 | 160.5 | 162.9 |
| RAD52 | 97.9 | 105.7 | 99.1 | 94.2 | 84.5 | 98.3 | 98.9 | 113.8 |
| RAD52B | 108.4 | 130.9 | 84.6 | 88.4 | 83.5 | 82.7 | 114.9 | 130.4 |
| RAD54B | 80.2 | 82.3 | 85.8 | 86.2 | 77 | 79.8 | 79.5 | 86.1 |
| RAD54B | 537 | 696.9 | 334 | 287.3 | 214.5 | 425.4 | 332.6 | 534 |
| RAD54L | 485.5 | 520.9 | 230.9 | 189.1 | 158.2 | 233.7 | 342 | 494.3 |
| RAD9A | 321.2 | 334.1 | 306.3 | 235.9 | 209.4 | 231.2 | 310.5 | 670.4 |
| RAD9B | 94.6 | 108.5 | 93.1 | 89.3 | 89.3 | 98 | 89.4 | 96.9 |
| RAE1 | 358.6 | 409.7 | 180.7 | 120.6 | 114.5 | 94 | 303.9 | 315.8 |
| RAE1 | 76.4 | 76.4 | 78.3 | 79.9 | 83.6 | 72.5 | 77.7 | 75.8 |
| RAE1 | 1441.5 | 2174.6 | 1632.9 | 1111.5 | 916.3 | 1201.2 | 1285.9 | 2267.2 |
| RAET1E | 100.4 | 119.3 | 110.3 | 85.4 | 80.8 | 95 | 104.9 | 96 |
| RAET1G | 90.3 | 95 | 96.6 | 93.8 | 76.5 | 88.7 | 85.7 | 99.5 |
| RAET1L | 79.4 | 86.1 | 86.3 | 82.4 | 91 | 94.6 | 89.3 | 95.2 |

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| RAF1 | 692.5 | 877.6 | 556.5 | 666.5 | 577.6 | 930.1 | 599.4 | 1069.6 |
| RAFTLIN | 799.9 | 1092.8 | 303.2 | 338.3 | 231.7 | 421.1 | 682.4 | 759 |
| RAG1 | 88.9 | 96.6 | 83.7 | 90.7 | 78.2 | 81.3 | 91.8 | 101.4 |
| RAG1AP1 | 208.8 | 250.7 | 116.2 | 107.8 | 112.5 | 118.4 | 194.1 | 268.4 |
| RAG2 | 80.1 | 94 | 87 | 82.1 | 80.5 | 74.9 | 76.4 | 83.5 |
| RAGE | 163.4 | 197.6 | 142.4 | 112.5 | 110.4 | 131.9 | 142.1 | 172.6 |
| RAI1 | 241 | 310.2 | 255.6 | 283.2 | 227.8 | 294 | 228.6 | 350.4 |
| RAI14 | 580.7 | 624 | 494 | 356.5 | 276.1 | 398 | 381.8 | 519.9 |
| RAI16 | 196.3 | 207.3 | 116.3 | 106.6 | 98.6 | 114.9 | 178.9 | 237 |
| RAI17 | 824.4 | 1178.1 | 518.3 | 541 | 461.5 | 613.2 | 910.7 | 1265.7 |
| RALA | 2196.8 | 2637.4 | 1343.5 | 1892.1 | 1558.9 | 2399.2 | 1921.9 | 2376.4 |
| RALB | 2647 | 3568.2 | 2124.9 | 1661.3 | 1232.8 | 1784.9 | 2056.4 | 2969.8 |
| RALBP1 | 470.8 | 604.5 | 239.8 | 374.8 | 315.4 | 481.1 | 447.3 | 617.7 |
| RALGDS | 77.1 | 83.9 | 86.3 | 78.5 | 88.1 | 90.1 | 85.3 | 78.1 |
| RALGDS | 1926.2 | 2302.7 | 1346.8 | 939.8 | 892.3 | 1164.4 | 1553.1 | 1485.2 |
| RALGPS1 | 96.8 | 101.1 | 98.8 | 107.1 | 104.3 | 114.7 | 87.9 | 101.6 |
| RALGPS2 | 103.7 | 111.9 | 106.9 | 107.6 | 94 | 103 | 95.2 | 111 |
| RALGPS2 | 90.7 | 89.3 | 98 | 96.3 | 80.3 | 86.3 | 87.5 | 97.1 |
| RALGPS2 | 72 | 88 | 88.4 | 83.8 | 80.3 | 97.9 | 87.2 | 87.8 |
| RALY | 1015.5 | 1383 | 870.5 | 944.4 | 835.2 | 1007.8 | 820.4 | 1235.9 |
| RALY | 1425.6 | 1831 | 1662.6 | 1974 | 1584.4 | 2507.2 | 1462 | 2405.9 |
| RAMP1 | 76.3 | 94.4 | 98.4 | 95 | 78.5 | 93.3 | 83.6 | 90 |
| RAMP2 | 114 | 133.1 | 132.5 | 111 | 101 | 113.7 | 113.8 | 123.2 |
| RAMP3 | 83.5 | 101.9 | 103.2 | 89.3 | 86.4 | 92.9 | 84.9 | 103.4 |
| RAN | 1576.3 | 1931.4 | 662.7 | 723.6 | 490.7 | 743.3 | 1045.5 | 1583.8 |
| RANBP1 | 8156.7 | 9198 | 2906.4 | 2357.5 | 1464.6 | 2103.6 | 7159.4 | 9077.4 |
| RANBP10 | 211.8 | 255.2 | 210.4 | 235.3 | 202.4 | 376.1 | 195.2 | 346 |
| RANBP17 | 88.7 | 93.7 | 88.9 | 85.3 | 91.7 | 102.9 | 84.7 | 95.1 |
| RANBP2 | 115.1 | 131.3 | 89.9 | 108.2 | 99.6 | 97 | 115.2 | 146.9 |
| RANBP3 | 717.8 | 984.3 | 482.4 | 409.9 | 342.2 | 438.9 | 662.9 | 973.3 |
| RANBP3 | 229.6 | 276.9 | 226.1 | 165.5 | 124.1 | 178.3 | 274.7 | 403.3 |
| RANBP3L | 85.9 | 96.4 | 91.1 | 90.2 | 84.8 | 94.5 | 87.4 | 90.4 |
| RANBP5 | 294.8 | 429.8 | 239.5 | 205.1 | 156.7 | 289.6 | 233.2 | 287.3 |
| RANBP6 | 134.9 | 146 | 105.5 | 104.6 | 102 | 96.2 | 122 | 167.4 |
| RANBP9 | 175.5 | 196.5 | 110.7 | 111.6 | 105.1 | 95.8 | 156 | 176 |
| RANGAP1 | 3217.4 | 3839.6 | 2356.3 | 1321.4 | 1165.6 | 1487.5 | 2710.4 | 1899.9 |
| RANGNRF | 103.3 | 102.7 | 96.5 | 91.2 | 76.4 | 83.3 | 92.3 | 115.4 |
| RAP1A | 249.8 | 290.1 | 169 | 138.9 | 111.1 | 160.1 | 187.8 | 287.4 |
| RAP1A | 419.1 | 610.3 | 170.5 | 172.5 | 137.9 | 155.2 | 280.1 | 420.4 |
| RAP1B | 100.5 | 113.1 | 81.7 | 92.5 | 85.7 | 104.9 | 106.1 | 131.7 |
| RAP1B | 447.3 | 492.3 | 255.1 | 245.7 | 186.9 | 289.4 | 374 | 749.2 |
| RAP1GA1 | 223 | 250.6 | 214.3 | 203.3 | 190.8 | 230.2 | 161.6 | 186.4 |
| RAP1GDS1 | 530.9 | 692.3 | 323.4 | 270.3 | 189.7 | 316.5 | 437.8 | 880.1 |
| RAP2A | 255.1 | 323.1 | 250.7 | 86.5 | 92 | 95.2 | 248.2 | 450.3 |
| RAP2B | 90.7 | 107.5 | 84.6 | 92.2 | 90.7 | 112.1 | 88.2 | 113.7 |
| RAP2C | 419.4 | 495.1 | 192.8 | 216.3 | 156.8 | 242.6 | 371.6 | 732.9 |
| RAP80 | 2077.7 | 2612.7 | 1248.6 | 1468.7 | 1475.6 | 1923 | 1623.2 | 1508.2 |
| RAPGEF1 | 94.7 | 99 | 107.7 | 101.4 | 96.5 | 99.5 | 96.8 | 99.6 |
| RAPGEF1 | 783.8 | 1002.5 | 756 | 817.7 | 771.5 | 811.4 | 1091.3 | 1023.5 |
| RAPGEF1 | 76.3 | 87.2 | 78 | 106.3 | 109.8 | 87.4 | 83.6 | 82.2 |

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| RAPGEF3 | 115.5 | 120.6 | 95.7 | 88.1 | 94 | 92.2 | 97.1 | 122.8 |
| RAPGEF4 | 138.1 | 186.5 | 95.5 | 87.2 | 85.3 | 88.3 | 130.6 | 155.5 |
| RAPGEF6 | 302 | 391.7 | 296.6 | 513.7 | 380.9 | 790.8 | 283.6 | 481 |
| RAPGEFL1 | 148.6 | 155.8 | 126.2 | 122 | 130.9 | 123.5 | 134.2 | 158.5 |
| RAPH1 | 89 | 100.5 | 93.4 | 82 | 75 | 86.4 | 87.4 | 93.6 |
| RAPH1 | 97.5 | 104.3 | 95.6 | 92.2 | 89.3 | 97 | 94.5 | 85.6 |
| RAPH1 | 80.2 | 90.1 | 96.4 | 86.2 | 89.3 | 84.5 | 88.6 | 89.3 |
| RAPH1 | 84.4 | 81.9 | 87.7 | 95.2 | 89.8 | 96.8 | 81.6 | 85.9 |
| RAPSN | 155.9 | 219.5 | 107.2 | 113 | 113.9 | 110.4 | 144.1 | 172.4 |
| RAPSN | 101.8 | 122.4 | 99 | 96.1 | 84.7 | 93.6 | 109.3 | 115.7 |
| RAPTOR | 93.4 | 99.8 | 102.3 | 109.7 | 87 | 94.2 | 102.5 | 93.1 |
| RARA | 104.7 | 119.4 | 125.1 | 114.1 | 101.1 | 110.7 | 107.7 | 111.9 |
| RARA | 759.8 | 844.7 | 663.6 | 987 | 766.2 | 778.6 | 756.7 | 1525.6 |
| RARA | 85.1 | 104 | 95.3 | 93.1 | 79.1 | 88.5 | 89.4 | 99.2 |
| RARB | 106.9 | 126.4 | 111.6 | 109.4 | 104.2 | 101.2 | 94.1 | 105.6 |
| RARB | 77.8 | 96.2 | 84 | 69.9 | 84.4 | 84.7 | 83.5 | 91.4 |
| RARB | 81.1 | 96.8 | 98.6 | 91.6 | 88.9 | 86.3 | 85.6 | 85.3 |
| RARG | 106.4 | 106.3 | 100.8 | 101.9 | 93.2 | 93.7 | 97 | 98.8 |
| RARRES1 | 119.4 | 156.9 | 90.9 | 81.6 | 75.6 | 92.4 | 103.3 | 106.8 |
| RARRES1 | 126.9 | 140.8 | 116.5 | 104.7 | 100.4 | 118.2 | 111.2 | 118.7 |
| RARRES1 | 83.2 | 102.4 | 102.5 | 91.3 | 96.5 | 104.9 | 86.1 | 88.2 |
| RARRES2 | 86.5 | 97.2 | 96 | 101.1 | 89.4 | 99.2 | 82.4 | 87.2 |
| RARRES3 | 138 | 176.7 | 148.4 | 145.4 | 146.2 | 177.2 | 137 | 168.1 |
| RARS | 3625.5 | 4435.6 | 2146.2 | 2218.9 | 1443.8 | 2638.5 | 2919.6 | 4179.8 |
| RARSL | 1281.7 | 1656.6 | 976.1 | 1110.9 | 1020.2 | 1578.1 | 1094 | 1583.9 |
| RASA1 | 87.6 | 111.2 | 89.3 | 77 | 85.6 | 83.9 | 93.1 | 101.4 |
| RASA1 | 659.9 | 980.3 | 501.3 | 781.7 | 700.1 | 1090.7 | 527.1 | 710.7 |
| RASA1 | 102.7 | 124.1 | 89.6 | 86 | 93.9 | 94.2 | 110.5 | 114.8 |
| RASA2 | 175.5 | 216.6 | 129.5 | 105.4 | 105.2 | 106.5 | 146.8 | 175.6 |
| RASA3 | 172.9 | 211 | 154 | 149.8 | 134.8 | 210.3 | 178.7 | 228.8 |
| RASA4 | 73.3 | 91 | 92.2 | 102.8 | 103 | 95.5 | 84.3 | 89.1 |
| RASAL1 | 100.8 | 109.7 | 104.5 | 93 | 94.6 | 100.7 | 94.6 | 104.6 |
| RASAL2 | 237 | 322.8 | 137.7 | 157 | 148 | 131.6 | 202.9 | 244.6 |
| RASAL2 | 107.8 | 133 | 86.4 | 90.8 | 99.9 | 104.8 | 98.7 | 108.5 |
| RASAL2 | 79.1 | 91 | 82.7 | 78.9 | 79.7 | 75.5 | 81.6 | 84.5 |
| RASD1 | 103.7 | 119.8 | 103.6 | 92.6 | 84.2 | 99.1 | 108 | 120.3 |
| RASD2 | 160.4 | 181.2 | 131.3 | 112.3 | 102.3 | 117.5 | 149.8 | 171.6 |
| RASEF | 85 | 100.2 | 97.6 | 86.9 | 87.2 | 86.7 | 82 | 98.2 |
| RASGEF1A | 91.8 | 101.8 | 86.7 | 86.9 | 80.6 | 90.8 | 80.3 | 80.2 |
| RASGEF1B | 91.7 | 119.2 | 91.2 | 83.3 | 84.4 | 84.8 | 104.7 | 117.5 |
| RASGEF1C | 103.2 | 103.6 | 95.6 | 101.4 | 85.6 | 94.8 | 90.6 | 100.4 |
| RASGEF1C | 73.2 | 83.3 | 90.1 | 89 | 82.3 | 81.9 | 81.8 | 81.3 |
| RASGEF1C | 99 | 106 | 97.1 | 94.2 | 87.4 | 95.5 | 104 | 97.1 |
| RASGRF1 | 99.5 | 112.9 | 105.7 | 101.3 | 101.4 | 102.6 | 103.1 | 109.4 |
| RASGRF1 | 104.2 | 117.4 | 89.6 | 91 | 81.4 | 92.2 | 89.2 | 101.6 |
| RASGRF2 | 87.5 | 90.5 | 91.7 | 90.7 | 76.1 | 86.6 | 86.4 | 86.7 |
| RASGRP1 | 135.6 | 143.6 | 97.8 | 94.5 | 88.4 | 91 | 126.6 | 140.3 |
| RASGRP2 | 1041.8 | 1107.2 | 868.1 | 660.9 | 685.7 | 953.8 | 690.2 | 1105.3 |
| RASGRP2 | 1169.7 | 1402.4 | 521.7 | 455.9 | 386.8 | 563.4 | 761.3 | 998.4 |
| RASGRP2 | 276.4 | 354 | 181.5 | 119.1 | 114.8 | 100.5 | 226.5 | 242.4 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| RASGRP3 | 88.1 | 96.3 | 91.9 | 89 | 97.4 | 100.2 | 91.6 | 91.9 |
| RASGRP4 | 112.5 | 109.1 | 102.6 | 98.2 | 91.2 | 103.6 | 99.7 | 106.7 |
| RASGRP4 | 102.9 | 130.2 | 111.6 | 95.1 | 93 | 111.3 | 98.6 | 116.8 |
| RASGRP4 | 73.8 | 97.7 | 80.7 | 84.7 | 75.8 | 77 | 80.1 | 95.6 |
| RASIP1 | 102.7 | 109.4 | 110.8 | 100.8 | 90.6 | 102.3 | 99.9 | 112.5 |
| RASL10B | 84.2 | 89.8 | 87.5 | 93.4 | 75.6 | 88 | 81.5 | 78.9 |
| RASL11A | 134.9 | 141.3 | 124.2 | 103 | 97 | 104.4 | 113.2 | 125.3 |
| RASL11B | 195.2 | 233.5 | 202.5 | 111.3 | 98.8 | 117.5 | 154.7 | 181.8 |
| RASL12 | 107.3 | 101.8 | 92.1 | 92.7 | 86.8 | 89.6 | 101.5 | 112.7 |
| RASSF1 | 500.1 | 647.4 | 490.6 | 322.4 | 315.5 | 405.3 | 471 | 677.5 |
| RASSF1 | 862.8 | 996.4 | 655.4 | 433.9 | 398.1 | 552.9 | 658.2 | 1156.3 |
| RASSF1 | 88.6 | 90.3 | 85 | 86.9 | 75.5 | 81.5 | 87.6 | 85.5 |
| RASSF1 | 290 | 329.4 | 179.5 | 151.8 | 145.5 | 134.9 | 278.1 | 334.9 |
| RASSF2 | 413.1 | 532 | 387.2 | 662.5 | 489 | 947.3 | 491.1 | 1256.3 |
| RASSF2 | 138.2 | 158.4 | 90.3 | 102.7 | 95.6 | 94.6 | 132.6 | 148.4 |
| RASSF2 | 1326.8 | 1583.9 | 885.3 | 1847.1 | 1356.8 | 2045 | 1557.8 | 2210 |
| RASSF3 | 118.2 | 139.4 | 83.4 | 96 | 82.8 | 93.6 | 114.9 | 124.7 |
| RASSF4 | 497.9 | 647.1 | 255.7 | 179.8 | 188.2 | 224.4 | 345.6 | 314.7 |
| RASSF4 | 179.5 | 239 | 108.5 | 94.7 | 94.8 | 95.4 | 156.5 | 181.3 |
| RASSF5 | 171.9 | 255.6 | 98.9 | 100.4 | 99.4 | 83.5 | 143.3 | 181.2 |
| RASSF5 | 175.5 | 216 | 91.1 | 103.4 | 94.9 | 79.7 | 151.4 | 174.6 |
| RASSF5 | 1086.5 | 1459.3 | 968.5 | 832.1 | 534.2 | 990.5 | 965.8 | 2410.1 |
| RASSF6 | 229.7 | 257.9 | 133.5 | 129 | 151 | 141.2 | 204.9 | 273.2 |
| RASSF6 | 101 | 95.5 | 82 | 85.6 | 85.4 | 81.3 | 93.7 | 99.2 |
| RASSF6 | 86.2 | 97.6 | 87.9 | 90.1 | 79.5 | 82.2 | 91.3 | 100 |
| RASSF7 | 1329.8 | 1441.5 | 997.2 | 910.9 | 939.3 | 1187.2 | 1154.4 | 1355.1 |
| RASSF8 | 129.2 | 163.8 | 105.8 | 98.5 | 86.1 | 91.6 | 128.2 | 144.5 |
| RAVER1 | 318.2 | 460.7 | 583 | 457.1 | 365.9 | 644.3 | 372.8 | 719.9 |
| RAVER2 | 172 | 193.3 | 157.9 | 146.7 | 131.2 | 192.4 | 151.4 | 165.4 |
| RAX | 90.5 | 108.9 | 101 | 93.4 | 82.9 | 95.3 | 84.3 | 90.9 |
| RAXL1 | 348.7 | 495.4 | 195.1 | 380.3 | 349 | 265.9 | 457.8 | 364 |
| RAXLX | 93.1 | 81.1 | 85.4 | 94.3 | 89.1 | 91.8 | 80.5 | 89.3 |
| RB1 | 456.3 | 592.5 | 263.5 | 277.1 | 227.9 | 494.1 | 337.7 | 477.9 |
| RB1CC1 | 851.2 | 1004.1 | 442.8 | 597.8 | 520.6 | 929.3 | 840.4 | 1590.2 |
| RBAF600 | 1108.3 | 1529.3 | 800.8 | 752.6 | 606.3 | 805.8 | 1021.1 | 1247.8 |
| RBAK | 143.5 | 168.7 | 115.4 | 117.2 | 100.5 | 129.2 | 119.8 | 135.3 |
| RBBP4 | 175.3 | 204.3 | 139.6 | 136.6 | 123.7 | 178.2 | 147.1 | 215 |
| RBBP5 | 793 | 926.5 | 461.7 | 459.2 | 311.4 | 445.6 | 645.6 | 999.6 |
| RBBP6 | 73.9 | 85.3 | 87.8 | 82.2 | 80.2 | 79.2 | 77.3 | 81.8 |
| RBBP6 | 103.1 | 107.7 | 96 | 86.7 | 83.4 | 83.5 | 97.5 | 121.8 |
| RBBP6 | 79.9 | 92.1 | 93.7 | 89.9 | 89.9 | 88.1 | 81.6 | 95.5 |
| RBBP7 | 2156.7 | 2211.6 | 429.9 | 409.9 | 401.4 | 613.3 | 1730.3 | 3655.6 |
| RBBP8 | 142.1 | 164.5 | 109.2 | 94.6 | 93.8 | 97.2 | 118.4 | 151 |
| RBBP8 | 100.6 | 111.2 | 76.2 | 87.5 | 78.9 | 84.7 | 102.2 | 94.3 |
| RBBP8 | 1650.9 | 1896 | 1059.3 | 1129.5 | 890.2 | 1669.1 | 1219.5 | 2071.4 |
| RBBP9 | 147 | 205.4 | 100.2 | 102.3 | 87.8 | 91.8 | 135.9 | 194.1 |
| RBBP9 | 264.1 | 281.8 | 160.8 | 198.8 | 163.4 | 196.4 | 182.8 | 215.9 |
| RBCK1 | 741.6 | 880.7 | 426 | 275 | 258.9 | 310.9 | 601.9 | 765.7 |
| RBCK1 | 338.6 | 380.2 | 336.4 | 258.4 | 221.8 | 373.4 | 301 | 553.9 |
| RBED1 | 126.3 | 135.4 | 125.7 | 113.7 | 111.2 | 146.4 | 130.1 | 208.8 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| RBJ | 221.7 | 277.3 | 165.1 | 167.1 | 132.2 | 182.9 | 196.1 | 235.1 |
| RBKS | 459.6 | 527.4 | 227 | 271.3 | 253.4 | 335.4 | 355.7 | 421.2 |
| RBL1 | 98.8 | 107.8 | 105.7 | 98.6 | 99.6 | 96.5 | 100.8 | 105.9 |
| RBL1 | 403.4 | 635.3 | 309.4 | 248.1 | 225.4 | 373.6 | 336.2 | 361.4 |
| RBL2 | 866.9 | 1233.1 | 769 | 906 | 881.4 | 1634.5 | 700.6 | 773.9 |
| RBM10 | 253.6 | 327.4 | 235.2 | 216.4 | 203.2 | 284.2 | 243.7 | 387.4 |
| RBM10 | 3005 | 3348.1 | 2317.1 | 2481 | 1998.5 | 2566 | 2357 | 3232 |
| RBM10 | 99.2 | 95.9 | 89.4 | 98.2 | 95.3 | 87.6 | 90.7 | 96.3 |
| RBM11 | 104.1 | 126.7 | 96.1 | 98.8 | 84.7 | 90.6 | 102.3 | 118 |
| RBM12 | 384.9 | 550.7 | 212.6 | 272.8 | 191.8 | 319.4 | 278.6 | 314.7 |
| RBM12 | 946.4 | 1090.6 | 765.8 | 701.2 | 461.3 | 841.5 | 655.7 | 1051.3 |
| RBM12B | 564.1 | 617.8 | 219.5 | 233.9 | 195.5 | 203.1 | 414.1 | 705.2 |
| RBM13 | 1873.9 | 2270.7 | 813.9 | 536.4 | 344.6 | 706.5 | 1271.8 | 1890.2 |
| RBM14 | 3761.1 | 4599 | 3408.3 | 2385.5 | 1701.8 | 2284 | 2317.7 | 2174.9 |
| RBM15 | 1499 | 2043.5 | 786.6 | 826.9 | 643.6 | 1027.6 | 1397.9 | 1926.4 |
| RBM15B | 153.3 | 198.6 | 135.6 | 121 | 91.5 | 119.2 | 148.6 | 196.3 |
| RBM17 | 712 | 913.3 | 626.3 | 527.3 | 444.1 | 687.8 | 642.9 | 1331 |
| RBM18 | 436.4 | 522 | 293.3 | 256.8 | 204.9 | 290.9 | 342.8 | 598 |
| RBM19 | 111.1 | 137 | 109 | 98.2 | 93.4 | 99.9 | 131.3 | 127.1 |
| RBM21 | 249.1 | 276.3 | 226.2 | 178.6 | 159.8 | 205.2 | 258.4 | 408.7 |
| RBM22 | 5299.7 | 6979 | 4263.5 | 3673.2 | 2866.2 | 4575.7 | 4572 | 5830.1 |
| RBM23 | 1522.8 | 1935 | 813.7 | 681.7 | 463.1 | 682.7 | 1340.6 | 1974 |
| RBM23 | 1895.3 | 2596.7 | 1568.4 | 1152.5 | 922.8 | 1600.5 | 1536.1 | 2647.1 |
| RBM24 | 95.7 | 111.9 | 98 | 76.9 | 80.7 | 78.3 | 104.9 | 99.4 |
| RBM25 | 1942.8 | 2307.5 | 523.7 | 580.8 | 716.2 | 1102.1 | 1438.8 | 2187.6 |
| RBM28 | 396 | 475.7 | 362.7 | 313 | 332.6 | 556.5 | 281.5 | 463.7 |
| RBM3 | 180.2 | 163 | 107.1 | 95.2 | 77.4 | 93.8 | 119.9 | 152.4 |
| RBM3 | 203.8 | 223.6 | 114.1 | 114.5 | 102.4 | 87.3 | 167.9 | 222 |
| RBM33 | 543.3 | 670.7 | 402.1 | 660.4 | 740.9 | 826.3 | 395.5 | 514.7 |
| RBM34 | 1739.3 | 2069.8 | 363 | 388.2 | 299.8 | 655.3 | 1642.8 | 2752 |
| RBM35B | 87.2 | 104.4 | 97.3 | 95.3 | 87.8 | 86.1 | 88.2 | 89 |
| RBM38 | 280.6 | 364 | 297.1 | 245.2 | 173.5 | 318.6 | 311.4 | 679.9 |
| RBM39 | 1199.6 | 1498.6 | 747.5 | 1016.7 | 951.4 | 738 | 1044.6 | 1603.5 |
| RBM4 | 989.3 | 1228.8 | 366.7 | 347 | 299.9 | 346.5 | 809.5 | 943.3 |
| RBM4 | 2218.8 | 3149 | 1044.9 | 911.2 | 761.3 | 957.3 | 1792.8 | 2441.9 |
| RBM4 | 551.8 | 706.5 | 287.3 | 174.1 | 185 | 201 | 417 | 434.8 |
| RBM41 | 100.2 | 106.2 | 93.3 | 91.4 | 77.5 | 93.3 | 94.1 | 118.1 |
| RBM4B | 949.8 | 1267.8 | 638.1 | 481.4 | 469.4 | 566.9 | 790 | 1085.2 |
| RBM5 | 1941.4 | 2004.1 | 1341.9 | 1366.7 | 1460.3 | 1863.3 | 1420.5 | 2128.7 |
| RBM6 | 510.6 | 618.5 | 320.1 | 409.6 | 355.1 | 738.4 | 370.8 | 594.8 |
| RBM7 | 417.1 | 501.2 | 182.1 | 198.9 | 138.2 | 177.6 | 376.1 | 680 |
| RBM8A | 125 | 152.2 | 104.7 | 94.4 | 97.4 | 98.2 | 122.8 | 138.7 |
| RBM9 | 358.7 | 456 | 279.3 | 260.7 | 233.4 | 228.9 | 325.4 | 493.4 |
| RBM9 | 132 | 149.9 | 91.7 | 91.7 | 92.5 | 91.9 | 123.1 | 138.4 |
| RBMS1 | 911.3 | 1252.1 | 542.4 | 640.6 | 487.9 | 542.1 | 837.4 | 1094.6 |
| RBMS1 | 85.9 | 94.3 | 95.3 | 87.6 | 83.5 | 88.4 | 84.3 | 74.4 |
| RBMS2 | 116.4 | 158.7 | 105.5 | 89.5 | 87.7 | 100.6 | 126.9 | 128.2 |
| RBMS3 | 85.5 | 84.8 | 92.5 | 94.4 | 78.8 | 89 | 86.6 | 86.2 |
| RBMS3 | 91.7 | 105.7 | 89.1 | 88.1 | 88.4 | 89.7 | 91.9 | 103.7 |
| RBMS3 | 86.8 | 93.4 | 89.6 | 73.6 | 75.8 | 88.7 | 90.2 | 106.9 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| RBMX | 3649.7 | 4989.1 | 2051.4 | 1344.4 | 991.7 | 1961.6 | 2368.1 | 3442.2 |
| RBMX2 | 488.5 | 653.4 | 211.4 | 208.2 | 164.5 | 284.6 | 419.1 | 934.5 |
| RBMXL1 | 75.8 | 107.6 | 91.4 | 89.7 | 80.2 | 101.9 | 91.4 | 106.2 |
| RBMY1A1 | 73.9 | 87 | 78.9 | 70.7 | 77.9 | 81.2 | 76.6 | 80.7 |
| RBMY1A1 | 76.2 | 78.5 | 87.1 | 94.2 | 86.4 | 86.1 | 73.6 | 77.3 |
| RBMY1A3P | 84.3 | 88.3 | 104.3 | 90.1 | 79.6 | 92.9 | 85 | 98.7 |
| RBMY1B | 79.2 | 86.8 | 99.8 | 85.1 | 74.9 | 83.5 | 78.4 | 89 |
| RBMY1E | 78.5 | 88.8 | 89.5 | 94.6 | 82.6 | 85.9 | 82.9 | 86.9 |
| RBMY1F | 79.7 | 87 | 101.9 | 83 | 87.6 | 90.5 | 81.1 | 71.7 |
| RBMY1J | 80.1 | 90.1 | 95.7 | 89.8 | 86.6 | 96.8 | 87.6 | 93.9 |
| RBMY2EP | 79.5 | 88.3 | 87.1 | 95 | 87.4 | 95.1 | 82.4 | 84.5 |
| RBMY2FP | 89.8 | 85.5 | 88.3 | 91.2 | 97.3 | 87.4 | 86 | 89.1 |
| RBP1 | 103.1 | 113 | 92.7 | 87.7 | 86.8 | 91 | 103.1 | 95.3 |
| RBP2 | 99.5 | 117.9 | 107.1 | 94.2 | 93.4 | 94.8 | 93.4 | 92.5 |
| RBP3 | 82 | 99 | 81.6 | 71.4 | 85 | 84.1 | 101 | 96.1 |
| RBP4 | 94.9 | 111.8 | 99.7 | 88.9 | 83.6 | 89 | 101.5 | 104.1 |
| RBP5 | 172.6 | 205.9 | 109.1 | 104.5 | 90.7 | 96.5 | 160.8 | 171.5 |
| RBP7 | 120.9 | 148.8 | 104.4 | 111.4 | 90.4 | 126.9 | 119.8 | 163.2 |
| RBPJ | 144.1 | 167.6 | 96.2 | 87.8 | 87.1 | 98.8 | 115.4 | 130.7 |
| RBPMS | 104.6 | 111.7 | 102.2 | 88.8 | 86.5 | 96.3 | 103.1 | 104.9 |
| RBPMS | 110 | 110.3 | 96.7 | 92.4 | 89 | 87.1 | 98.4 | 116.7 |
| RBPMS | 76.7 | 93.6 | 94 | 88.2 | 83.8 | 89.9 | 72.6 | 78.2 |
| RBPMS2 | 221.8 | 307.3 | 168.9 | 181 | 163.4 | 198.8 | 209.7 | 214 |
| RBPSUH | 157.5 | 210.2 | 98.5 | 96.5 | 89.5 | 92.1 | 127 | 168.1 |
| RBPSUH | 1965.4 | 2355.7 | 837.5 | 795.5 | 611.9 | 468.6 | 1394 | 2064.3 |
| RBPSUHL | 109.8 | 103.3 | 132.6 | 113.4 | 108.2 | 119.8 | 93.6 | 121.3 |
| RBX1 | 5360.3 | 6200.2 | 2003.9 | 1775.8 | 1438.8 | 2279.4 | 5326.3 | 6787.3 |
| RC3H1 | 104.8 | 123 | 92.3 | 65.8 | 82.7 | 87 | 86.5 | 129 |
| RC74 | 1506 | 1957.7 | 1074.5 | 807 | 563.2 | 712.7 | 1353.1 | 1598.9 |
| RCBTB1 | 167.9 | 190 | 129 | 123.3 | 111.8 | 145.6 | 159.3 | 219.9 |
| RCBTB2 | 406.2 | 449.2 | 275.1 | 476.3 | 343.1 | 749.4 | 322.1 | 705.8 |
| RCC1 | 374.4 | 426.8 | 229.4 | 184.9 | 165 | 145.9 | 241.5 | 272.3 |
| RCC2 | 5643.7 | 6516.7 | 4311.5 | 5306.1 | 3919 | 4990.6 | 4141.8 | 3904.8 |
| RCCD1 | 143.8 | 188.8 | 118.8 | 112.6 | 100.8 | 118.5 | 122 | 137.1 |
| RCCD1 | 101.5 | 113.4 | 106.5 | 86.5 | 89.7 | 86.3 | 94.5 | 105.8 |
| RCCD1 | 513.9 | 453.1 | 291 | 292.2 | 273.2 | 371.7 | 270.4 | 348.8 |
| RCD-8 | 1129.1 | 1488.8 | 1476 | 1177 | 1004.7 | 1132.9 | 886.6 | 997.7 |
| RCE1 | 508.8 | 614.5 | 463 | 316.3 | 247.2 | 362.1 | 512.7 | 893.7 |
| RCE1 | 158.6 | 196.2 | 183.6 | 139.1 | 128.4 | 155.5 | 154.2 | 224.3 |
| RCHY1 | 244.9 | 288.4 | 195.2 | 145.4 | 133.8 | 193.4 | 149.9 | 223.6 |
| RCHY1 | 122.7 | 139.2 | 92.8 | 85.2 | 80.8 | 92.2 | 121.3 | 152.9 |
| RCL1 | 598 | 841 | 445.5 | 394 | 299.5 | 472.5 | 412.6 | 655.7 |
| RCN1 | 80.9 | 84.8 | 120.2 | 100.8 | 104.7 | 116.8 | 79.7 | 92.6 |
| RCN2 | 83.6 | 90.3 | 95.8 | 89.6 | 79.4 | 90.7 | 88 | 94.8 |
| RCN3 | 123.6 | 133.9 | 123.6 | 143.1 | 147 | 167.9 | 124.1 | 126.7 |
| RCOR1 | 82.9 | 101.5 | 98.9 | 110.4 | 103.1 | 94.4 | 91.3 | 91.6 |
| RCOR2 | 198.9 | 223.2 | 196.5 | 147.2 | 127.8 | 139.6 | 151.1 | 122.9 |
| RCOR3 | 533.9 | 708.6 | 481.1 | 617.6 | 572.4 | 1006.6 | 486.4 | 838.3 |
| RCP9 | 1579.4 | 1636.7 | 590.6 | 682.7 | 861.4 | 519.6 | 1458.9 | 1671.5 |
| RCP9 | 148.1 | 160.6 | 105.7 | 101 | 93.4 | 85.7 | 109 | 127.3 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| RCP9 | 77.3 | 76.2 | 83.5 | 78.3 | 74.6 | 74.5 | 84.9 | 95.1 |
| RCSD1 | 695 | 946.5 | 409.7 | 319.4 | 280.4 | 473.6 | 516 | 585.5 |
| RCV1 | 92.4 | 94.8 | 97.9 | 91.9 | 89.6 | 79.3 | 85.4 | 89.3 |
| RDBP | 580.7 | 730.2 | 366.6 | 329.7 | 310.6 | 325.7 | 493.8 | 392.6 |
| RDH10 | 522.8 | 576.6 | 435.9 | 344.1 | 241.2 | 422.4 | 432.9 | 902.7 |
| RDH11 | 571.6 | 622.7 | 240.9 | 194.3 | 190.8 | 216.9 | 571.1 | 920.7 |
| RDH12 | 93 | 93.8 | 94.2 | 85.1 | 81 | 84.8 | 90.3 | 88.9 |
| RDH13 | 365.7 | 447.1 | 332.9 | 261.6 | 199.7 | 247.3 | 360.3 | 472.2 |
| RDH14 | 2159.5 | 2434 | 1621.5 | 1407.8 | 1172.5 | 1609.7 | 1804.2 | 3038 |
| RDH16 | 86.2 | 91.2 | 88 | 79.8 | 78.8 | 84.4 | 89.3 | 89.1 |
| RDH5 | 219.5 | 247.6 | 182.9 | 168 | 187.4 | 159.7 | 179.8 | 179 |
| RDH8 | 125 | 164.5 | 88.5 | 91.2 | 88.4 | 86 | 130.1 | 134.9 |
| RDHE2 | 113 | 138 | 97.3 | 93.7 | 85 | 87.6 | 96.4 | 108.5 |
| RDM1 | 101.2 | 111 | 119.3 | 119.9 | 98.9 | 123.9 | 103.5 | 94.2 |
| RDS | 91.6 | 108.9 | 115.2 | 101.6 | 90.3 | 106.4 | 93.5 | 96.8 |
| REC8L1 | 240.9 | 234.1 | 214 | 157.3 | 186.3 | 208.3 | 241.1 | 332.9 |
| REC8L1 | 113.8 | 119.1 | 109.3 | 98.2 | 114.4 | 107.3 | 103.4 | 123.7 |
| RECK | 260.5 | 329.9 | 184.3 | 194.9 | 132.4 | 208.6 | 244.2 | 381.2 |
| RECQL | 352.1 | 453.7 | 250.1 | 233.6 | 203.9 | 300.9 | 274.3 | 375.9 |
| RECQL | 722 | 832.3 | 278.2 | 309.7 | 233.5 | 350.8 | 545 | 898.8 |
| RECQL4 | 349.3 | 393 | 445.1 | 299.5 | 294.3 | 561.6 | 280.4 | 419.2 |
| RECQL5 | 118.8 | 134.7 | 118.6 | 104.4 | 94.8 | 105.6 | 112.5 | 117 |
| RECQL5 | 155.6 | 177.7 | 125.3 | 152.8 | 139 | 165.8 | 126.5 | 158.6 |
| RECQL5 | 110.6 | 132.6 | 116.2 | 97.9 | 94.3 | 104.8 | 104.4 | 113.9 |
| REEP1 | 107.1 | 116.4 | 110.4 | 102.2 | 86.6 | 96.6 | 91.7 | 130.2 |
| REEP2 | 96.2 | 107.5 | 86.4 | 83.5 | 74.2 | 82.9 | 93.3 | 103.5 |
| REEP3 | 176.7 | 219.2 | 126.4 | 99.4 | 106.3 | 108.6 | 134 | 186.5 |
| REEP4 | 298.4 | 405.5 | 294.5 | 163.8 | 157.7 | 205 | 264.9 | 426.8 |
| REEP5 | 1456.9 | 1779.6 | 635.6 | 674.8 | 564.9 | 812.4 | 1253.3 | 1679.6 |
| REEP6 | 503.7 | 616 | 375.4 | 469.7 | 345.1 | 351.4 | 468.6 | 410.5 |
| REG1A | 89.3 | 97 | 90.1 | 93.9 | 85.1 | 87.5 | 91.1 | 104.4 |
| REG1B | 87.4 | 97.9 | 96.7 | 85.3 | 86 | 84.2 | 86.4 | 96.1 |
| REG3A | 111.7 | 121.6 | 95.1 | 91.5 | 90.3 | 80 | 105.8 | 134 |
| REG3A | 88.8 | 94.6 | 101.5 | 93.7 | 83.4 | 86.2 | 85.3 | 102.1 |
| REG3G | 79.3 | 83.8 | 97.1 | 93.1 | 86.8 | 95.6 | 81.9 | 86.1 |
| REG3G | 91.9 | 96.4 | 105.5 | 91.5 | 85.9 | 91.4 | 92.7 | 92.1 |
| REG4 | 98 | 122.1 | 95.1 | 97.3 | 84.7 | 95.8 | 106.9 | 115.8 |
| REL | 145.6 | 186.2 | 116.7 | 101.7 | 97.8 | 121.5 | 146.5 | 208.9 |
| RELA | 151.3 | 228.1 | 171.8 | 150.5 | 114.9 | 134.2 | 160.8 | 246.4 |
| RELB | 119.1 | 161.2 | 145.5 | 128.2 | 156.9 | 147.6 | 130.1 | 176.3 |
| RELN | 96.8 | 110.9 | 90.9 | 78.6 | 71.7 | 81.9 | 102.6 | 111.3 |
| RELN | 140.4 | 131.8 | 99.9 | 98 | 97.9 | 105.2 | 132.4 | 144.2 |
| REM1 | 88.2 | 99.3 | 80.8 | 88.3 | 83.6 | 86.1 | 89.5 | 104 |
| REN | 108.2 | 120.6 | 99.8 | 90.3 | 81.3 | 90.7 | 102.3 | 131 |
| RENBP | 366.5 | 500 | 379.2 | 557.9 | 487.3 | 730.4 | 373 | 520.6 |
| RENT1 | 256.2 | 300.5 | 317.8 | 195.9 | 176.3 | 296.7 | 240.1 | 430.2 |
| REP15 | 80.6 | 103.7 | 96.1 | 95.1 | 88.2 | 98.7 | 85.4 | 96 |
| REPIN1 | 171.8 | 217.8 | 106.7 | 94.6 | 86.2 | 96.7 | 158.4 | 192.7 |
| REPIN1 | 101.1 | 136.5 | 109.3 | 114 | 116.4 | 108.3 | 105 | 107.5 |
| REPIN1 | 2284.4 | 2846.2 | 1445.1 | 1739.8 | 1726.9 | 2258.7 | 1317.4 | 1091.5 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| REPS1 | 156.6 | 175.5 | 169 | 161.7 | 145.2 | 202.3 | 140.6 | 194.2 |
| REPS2 | 90 | 98.4 | 110.8 | 108.1 | 103.9 | 97.2 | 104 | 94.5 |
| REPS2 | 89.1 | 101.9 | 106.6 | 107.9 | 99.8 | 105.9 | 93.2 | 103.6 |
| REPS2 | 84.8 | 104.5 | 99.7 | 93.8 | 90.4 | 94.9 | 90.8 | 96 |
| REPS2 | 91 | 110.4 | 98.5 | 131.9 | 139.7 | 144.8 | 98.3 | 104.6 |
| REPS2 | 98.1 | 110.8 | 101.9 | 86 | 76.7 | 91.7 | 87.8 | 94.7 |
| RER1 | 261.6 | 325.8 | 130.9 | 109.4 | 106 | 131.7 | 223.3 | 254 |
| RERE | 168.2 | 236.2 | 182.7 | 300.6 | 275.2 | 354.5 | 164.3 | 243.4 |
| RERE | 100.4 | 110.2 | 94.1 | 86.3 | 79.6 | 80.7 | 95.5 | 105.8 |
| RERE | 100.7 | 136.6 | 112.6 | 132.6 | 133.9 | 145.9 | 114.6 | 131.7 |
| REGG | 78.9 | 91.3 | 87.2 | 84.7 | 73.6 | 87.7 | 91.1 | 84.5 |
| RESP18 | 93.3 | 87.2 | 92.1 | 81.4 | 84 | 92.2 | 89.2 | 96.7 |
| REST | 128.1 | 147.4 | 108.3 | 114.9 | 98.6 | 100.2 | 121.5 | 160.3 |
| RET | 1794.5 | 2549.4 | 1403.6 | 877.3 | 746.3 | 770.3 | 1480.1 | 1335.4 |
| RET | 306.5 | 468.6 | 233.3 | 234.1 | 196.2 | 290.5 | 214.7 | 217.9 |
| RET | 803.7 | 1142.5 | 857.6 | 397.9 | 350.8 | 613.1 | 638.4 | 1221.8 |
| RETN | 81 | 83.3 | 96.3 | 81.9 | 78 | 83.1 | 86 | 83.3 |
| RETNLB | 101.9 | 108.9 | 100.7 | 93.5 | 97.3 | 93 | 95.8 | 102.5 |
| RETSAT | 176 | 250.9 | 123 | 123.9 | 114.3 | 144.4 | 164.8 | 195.8 |
| REV1 | 686.9 | 756 | 301.2 | 359.1 | 265.2 | 352.9 | 536.7 | 823.2 |
| REV1L | 738.4 | 810.3 | 353.2 | 411.8 | 376 | 625.1 | 601.1 | 891.8 |
| REV3L | 140.2 | 203.7 | 156.8 | 170.7 | 154.3 | 226.4 | 128.2 | 151.4 |
| REXO1 | 229.3 | 241.7 | 228.8 | 177.6 | 183.7 | 166.4 | 237.1 | 308.8 |
| REXO1L1 | 87.5 | 116.7 | 81.2 | 78.7 | 72.9 | 77.7 | 96.8 | 110 |
| REXO2 | 1707.6 | 1965 | 1070.3 | 964.1 | 648.9 | 1036.9 | 1421.6 | 2212.7 |
| REXO4 | 1003.3 | 1364 | 443.7 | 367 | 286 | 341 | 854.2 | 631 |
| RFC1 | 911.4 | 1251.6 | 511.2 | 620.5 | 460.4 | 1039.9 | 809.3 | 975.1 |
| RFC2 | 255.8 | 333.7 | 173.7 | 163.5 | 151.3 | 153.7 | 239.7 | 267.7 |
| RFC2 | 1051.4 | 1214.7 | 349.3 | 241.9 | 189.8 | 297 | 817.9 | 1133.2 |
| RFC3 | 1597.1 | 2173.7 | 593.5 | 462.4 | 311.4 | 483 | 904.1 | 1501.8 |
| RFC3 | 778.6 | 1042.3 | 465.8 | 368 | 285.7 | 376.2 | 475.3 | 672.5 |
| RFC3 | 323.9 | 429.8 | 217.2 | 154.6 | 146.4 | 169.5 | 297.6 | 457.6 |
| RFC4 | 3333.9 | 3940.3 | 1096.7 | 1044.7 | 854.1 | 1072.9 | 2496.9 | 3645.7 |
| RFC4 | 3506.2 | 4682.6 | 2161.1 | 1786.9 | 1556.9 | 2934.1 | 2613.9 | 3766.6 |
| RFC5 | 2182.8 | 3040.9 | 1176.2 | 1080.9 | 851.4 | 1191.2 | 1749.9 | 2223 |
| RFC5 | 98.7 | 101 | 102.5 | 94 | 84.5 | 91.7 | 102.8 | 100.2 |
| RFESD | 245.8 | 317.3 | 191.9 | 184.5 | 147 | 205.6 | 214.3 | 252.7 |
| RFFL | 103.9 | 123.2 | 78.2 | 86.5 | 74 | 85.5 | 99.6 | 121.1 |
| RFFL | 94.4 | 105.2 | 81.1 | 84.6 | 75.7 | 85.9 | 83.4 | 98.7 |
| RFK | 143.4 | 157.5 | 99.3 | 88.1 | 80.3 | 94 | 120.8 | 181.1 |
| RFNG | 117.9 | 133.5 | 128.8 | 105.9 | 100.7 | 105.8 | 114.8 | 136.2 |
| RFNG | 503.4 | 610.9 | 552.2 | 439.8 | 417.1 | 538.8 | 405.5 | 885.7 |
| RFNG | 98.4 | 115.3 | 88.3 | 84.1 | 82.6 | 93.2 | 95.9 | 113.1 |
| RFP | 238.9 | 334.7 | 186.9 | 181.5 | 154.9 | 211.9 | 180.4 | 289.5 |
| RFP2 | 124.3 | 135.8 | 101.6 | 89.1 | 103.4 | 97.3 | 94.8 | 109.7 |
| RFPL1S | 101.1 | 136.9 | 112.6 | 106.9 | 102.1 | 97.7 | 113.5 | 129.9 |
| RFPL3S | 116.4 | 105.6 | 93.8 | 82 | 80.2 | 91.3 | 105.2 | 126.3 |
| RFPL3S | 91.5 | 103.8 | 91.3 | 88.7 | 79.8 | 96.7 | 93.7 | 99.3 |
| RFPL4B | 79.2 | 90.3 | 87.8 | 85.4 | 83.7 | 84.4 | 83.1 | 97.9 |
| RFT1 | 122.6 | 132.9 | 98.9 | 91.1 | 87 | 88.7 | 116 | 132 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| RFWD2 | 3198.9 | 3909.8 | 2051.9 | 1952.8 | 1642.8 | 2611 | 2688.9 | 3537.8 |
| RFWD2 | 94.9 | 99.3 | 93.2 | 86 | 92.9 | 92.6 | 93.3 | 89.1 |
| RFWD2 | 2670 | 3592.7 | 1562.8 | 1434.7 | 1084.3 | 2056.1 | 2439.6 | 2967.4 |
| RFWD3 | 1993.5 | 2758.8 | 1206.6 | 696.7 | 603.1 | 766.4 | 1544.6 | 1711.2 |
| RFX1 | 239.7 | 270.4 | 232.2 | 138.2 | 149.5 | 169.4 | 204.8 | 302.6 |
| RFX2 | 112.8 | 130.9 | 149.5 | 114.8 | 120.4 | 148.8 | 98.2 | 121.7 |
| RFX2 | 107.2 | 112.5 | 129.7 | 115.3 | 118.3 | 141.4 | 93.4 | 112.2 |
| RFX3 | 79.3 | 96.1 | 92.3 | 92.9 | 89 | 83.8 | 87.9 | 96.9 |
| RFX3 | 102.8 | 114.2 | 119.4 | 96.1 | 93.9 | 110.5 | 121.5 | 119.1 |
| RFX3 | 89.2 | 120.7 | 105 | 90.7 | 90 | 102 | 90.9 | 110.2 |
| RFX4 | 75.8 | 80.3 | 95.6 | 87.8 | 78.5 | 95 | 82.9 | 80.8 |
| RFX4 | 97.8 | 140.4 | 89.6 | 85.7 | 78.5 | 78.4 | 106.2 | 135.9 |
| RFX4 | 110.2 | 105.4 | 85.9 | 90.4 | 86.5 | 98.9 | 108.2 | 117.3 |
| RFX4 | 81.5 | 92.8 | 106.5 | 83.4 | 85 | 80.9 | 96.1 | 101.8 |
| RFX5 | 90.6 | 116.6 | 82.8 | 73.9 | 83.2 | 83.3 | 96.1 | 115.9 |
| RFX5 | 1983.9 | 2222.9 | 1905.4 | 1850 | 1678.1 | 2574.8 | 1351.5 | 2312.2 |
| RFXANK | 996.6 | 1258.5 | 509.8 | 334.8 | 284.7 | 365.3 | 903.6 | 958.4 |
| RFXANK | 431.9 | 521.5 | 213.6 | 146.3 | 136.6 | 164.3 | 334.7 | 365.4 |
| RFXANK | 1975.9 | 2885.4 | 1749.8 | 1356.7 | 1061.7 | 1463.1 | 2374.5 | 2798.3 |
| RFXAP | 158.1 | 188.6 | 95.8 | 87 | 97.5 | 91.8 | 136.4 | 171 |
| RFXDC1 | 100 | 112.1 | 113.2 | 89.5 | 101.8 | 98.7 | 98.3 | 100.1 |
| RFXDC2 | 113.9 | 121.2 | 103.9 | 116.3 | 96.2 | 114.2 | 116.2 | 136.3 |
| RG9MTD1 | 602 | 691 | 277.5 | 247.6 | 220.7 | 313.9 | 540.2 | 1075.5 |
| RG9MTD2 | 221.4 | 272.7 | 123 | 130.7 | 124.7 | 147 | 175.1 | 271 |
| RG9MTD3 | 216.7 | 243 | 178.9 | 157.9 | 157.2 | 145.2 | 188.8 | 250.4 |
| RGAG1 | 106.3 | 115.2 | 94.5 | 80 | 78.1 | 85.4 | 104.1 | 104.5 |
| RGAG4 | 89.3 | 108.5 | 105.4 | 102.7 | 84.7 | 101.6 | 92.5 | 100.9 |
| RGAG4 | 224.6 | 260.8 | 125.9 | 93.2 | 91.2 | 106.3 | 199.2 | 232.8 |
| RGC32 | 537 | 676.1 | 452.3 | 359.8 | 288.8 | 417.9 | 482.7 | 737.7 |
| RGL1 | 123.3 | 151.5 | 117.4 | 173.6 | 199.1 | 211.1 | 153 | 186.9 |
| RGL2 | 233.3 | 265 | 180.2 | 159.9 | 192.8 | 241.4 | 201.5 | 421.1 |
| RGL3 | 133.2 | 143.4 | 89.4 | 81.4 | 82.6 | 80.7 | 123.2 | 154.6 |
| RGMA | 192.1 | 207.3 | 189.3 | 190.9 | 180.2 | 195.4 | 130.2 | 147.9 |
| RGMB | 98.3 | 105.3 | 104.3 | 91.9 | 90.8 | 92.3 | 91.9 | 100.5 |
| RGMB | 82.2 | 88.7 | 85.6 | 81.9 | 86 | 93.6 | 83.2 | 90.4 |
| RGMB | 101.4 | 121.3 | 100 | 95 | 100.2 | 84.6 | 113 | 124.8 |
| RGN | 106.5 | 119 | 116.8 | 92.6 | 97 | 101.3 | 113 | 129.2 |
| RGN | 120.3 | 120.2 | 90.3 | 88.9 | 77.1 | 84.3 | 108 | 134.7 |
| RGNEF | 107.8 | 128.5 | 97.5 | 84.1 | 83.8 | 87.2 | 104.8 | 131.4 |
| RGNEF | 75 | 85.1 | 95.1 | 89.1 | 84.1 | 87.3 | 70.5 | 78.5 |
| RGPD1 | 179.4 | 227 | 175.6 | 240.6 | 273.8 | 296.3 | 148.9 | 165.3 |
| RGPD2 | 182.5 | 225.1 | 114.1 | 112 | 104.4 | 119.1 | 157.6 | 190.9 |
| RGPD5 | 88.6 | 92.2 | 97.4 | 86.8 | 79.6 | 82.5 | 92.5 | 86.9 |
| RGPD5 | 104 | 130.8 | 105.4 | 103.1 | 92 | 102.1 | 114.3 | 124.5 |
| RGPD5 | 80.1 | 89.9 | 87.5 | 92.4 | 86.3 | 80.1 | 79.5 | 89.4 |
| RGPD7 | 100.1 | 115.9 | 99.7 | 88.3 | 98 | 86.2 | 97.7 | 118.9 |
| RGR | 79 | 88.1 | 91.9 | 87.1 | 80.6 | 86.9 | 84.1 | 88.9 |
| RGR | 130.9 | 146.9 | 117.9 | 108.4 | 113.4 | 113 | 126 | 135.2 |
| RGR | 115.7 | 121.4 | 114.2 | 103.1 | 111.1 | 100.1 | 116.3 | 121.7 |
| RGS1 | 97 | 101.3 | 85.1 | 77.7 | 83.2 | 89.1 | 90.9 | 104.9 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| RGS10 | 771.9 | 1014.4 | 529.6 | 293 | 208 | 329.7 | 478.5 | 504.6 |
| RGS10 | 3111.5 | 3955.1 | 1026 | 753 | 542.9 | 772.1 | 2891.1 | 3450.8 |
| RGS10 | 117.7 | 131.8 | 97.3 | 73 | 77.2 | 82.8 | 108.1 | 121 |
| RGS11 | 106.4 | 121.5 | 94.2 | 95.8 | 86.7 | 94.8 | 96.1 | 119.4 |
| RGS11 | 115.9 | 133 | 100.2 | 85.4 | 84.9 | 89.6 | 112.5 | 124.5 |
| RGS12 | 101.9 | 114.6 | 106.1 | 94.4 | 87.2 | 88.5 | 103.5 | 101.1 |
| RGS12 | 339 | 427.3 | 365 | 329 | 352.1 | 393 | 299.9 | 439.5 |
| RGS12 | 117.1 | 130 | 81.7 | 89.7 | 85.2 | 81.2 | 110.7 | 109.3 |
| RGS13 | 88.7 | 93.2 | 94.6 | 85.4 | 92.2 | 94.5 | 93.4 | 94 |
| RGS14 | 147.6 | 176.9 | 136.1 | 142.5 | 131.5 | 186.6 | 127.3 | 164.2 |
| RGS16 | 120.5 | 126.2 | 144.1 | 128 | 142.8 | 164 | 112.8 | 150.5 |
| RGS17 | 96.9 | 112.3 | 123.1 | 108.8 | 109.4 | 110.8 | 101.4 | 109.4 |
| RGS18 | 1438.6 | 1754.2 | 826.4 | 684.2 | 469.4 | 990.9 | 700 | 1251.5 |
| RGS19 | 1476.3 | 1857.1 | 1285.4 | 1380.2 | 1086.8 | 1833.3 | 1211 | 2470 |
| RGS2 | 220.2 | 274.8 | 181.4 | 170.7 | 174.4 | 214 | 265 | 489.9 |
| RGS20 | 72.7 | 88.5 | 90.6 | 84.7 | 85.2 | 85.9 | 82.2 | 83.1 |
| RGS20 | 101.4 | 103.5 | 90.1 | 115.5 | 117.6 | 122.1 | 107.8 | 137.2 |
| RGS22 | 77.6 | 90.3 | 92.6 | 80.1 | 80.5 | 84.4 | 88.7 | 86.7 |
| RGS3 | 92.5 | 106.2 | 96.3 | 89.6 | 83.5 | 90.7 | 85.5 | 88 |
| RGS3 | 124.5 | 136.2 | 93.5 | 91.5 | 88.8 | 91.2 | 105.7 | 130.7 |
| RGS3 | 106.6 | 109.8 | 93.4 | 84.9 | 81 | 81.5 | 96.5 | 101.2 |
| RGS3 | 72.3 | 85.7 | 80.9 | 77.9 | 80.1 | 75.8 | 79.5 | 80.6 |
| RGS3 | 90.4 | 104.7 | 85.2 | 87.1 | 74.6 | 85.9 | 98.8 | 115.9 |
| RGS3 | 105.4 | 106.2 | 109.7 | 103.5 | 114.4 | 106.7 | 103 | 112.6 |
| RGS4 | 103.6 | 113.6 | 94 | 88.9 | 91.4 | 97 | 109.1 | 113.4 |
| RGS5 | 91.7 | 93 | 101.4 | 104.5 | 88.8 | 99.5 | 90.2 | 103.7 |
| RGS6 | 112.5 | 123.4 | 111.9 | 93.1 | 101.9 | 107.2 | 118.6 | 127 |
| RGS7 | 87.7 | 103.5 | 87 | 84.1 | 77.5 | 80.4 | 90.3 | 90.3 |
| RGS8 | 91.2 | 124.8 | 87.2 | 84.9 | 81.1 | 81.6 | 96.3 | 104.6 |
| RGS9 | 89.7 | 98.9 | 88.8 | 77.1 | 87 | 78.3 | 84.2 | 103.3 |
| RGS9 | 79.7 | 89.5 | 86.9 | 77.2 | 79.4 | 83 | 88 | 84.9 |
| RGS9BP | 91.4 | 100.9 | 111.5 | 93.3 | 95.4 | 87.6 | 94.3 | 99.3 |
| RHAG | 81.1 | 87.7 | 96.6 | 88.5 | 83.1 | 89.4 | 82.2 | 89.3 |
| RHBDD1 | 300.4 | 385.2 | 226.8 | 253.7 | 217.2 | 278.3 | 296 | 338.7 |
| RHBDD2 | 743.5 | 923.6 | 983.3 | 494 | 349.9 | 446.7 | 829.3 | 1609.7 |
| RHBDD2 | 865 | 1074.1 | 1074.8 | 632.3 | 435.7 | 506.9 | 906.4 | 1874.2 |
| RHBDD3 | 231.6 | 317.7 | 200.6 | 157.1 | 145 | 208.3 | 214.1 | 408.7 |
| RHBDF1 | 685.9 | 758.7 | 447.1 | 521.9 | 515.9 | 536 | 449.4 | 494.3 |
| RHBDF2 | 311.6 | 367.3 | 342 | 392.5 | 369.9 | 373 | 194.7 | 200.3 |
| RHBDF2 | 110.2 | 131 | 96.6 | 90.7 | 90.8 | 97 | 111 | 131.8 |
| RHBDF2 | 363.2 | 440 | 281.9 | 319.1 | 247.4 | 301.4 | 253.5 | 292.2 |
| RHBDF2 | 77.4 | 85.2 | 93.4 | 82 | 80.6 | 79.5 | 80.6 | 82.1 |
| RHBDL1 | 206.4 | 240.1 | 188.6 | 172.1 | 187.5 | 193.1 | 147 | 238.2 |
| RHBDL2 | 162.7 | 172.5 | 104.1 | 99.8 | 93.3 | 103.8 | 162.5 | 195.9 |
| RHBDL3 | 121.6 | 130.1 | 115.7 | 105.3 | 98.6 | 113.9 | 117.1 | 123.3 |
| RHBG | 70.1 | 84 | 87.2 | 82.5 | 70.5 | 81.4 | 76.2 | 85.6 |
| RHCE | 139.8 | 163.9 | 101 | 94.7 | 86.8 | 94.7 | 127.2 | 146.6 |
| RHCE | 81.4 | 97.1 | 91.1 | 89.7 | 84.9 | 83.5 | 85.1 | 84.6 |
| RHCG | 82 | 116.6 | 79.4 | 77.6 | 69.3 | 82.8 | 103.4 | 108.7 |
| RHD | 81.6 | 96.3 | 84.7 | 97.3 | 77.8 | 85.9 | 76.3 | 104.7 |

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|---------|---------|---------|--------|--------|--------|--------|---------|---------|
| RHEB | 5090.2 | 6662.8 | 2516.8 | 2437.1 | 1603.4 | 2917.8 | 4617.2 | 6867.1 |
| RHEBL1 | 126.9 | 143.8 | 102.2 | 88.1 | 94.5 | 89.1 | 104.4 | 118 |
| RHO | 75.5 | 89.9 | 87.4 | 94.5 | 80 | 89.1 | 93.8 | 89.1 |
| RHOA | 12931.6 | 14487.6 | 4475.3 | 5408.2 | 2906.5 | 3674.1 | 13494.4 | 18977.1 |
| RHOB | 116.4 | 132.2 | 94.6 | 96.2 | 94 | 90.7 | 125.9 | 189.3 |
| RHOBTB1 | 106.9 | 94.2 | 100.4 | 89.9 | 85.7 | 91.6 | 84.1 | 141 |
| RHOBTB1 | 92.4 | 91.5 | 93.9 | 92.3 | 91 | 88.4 | 85.3 | 77.6 |
| RHOBTB1 | 98 | 113.9 | 94 | 81.7 | 80.8 | 83.2 | 95.7 | 109.9 |
| RHOBTB1 | 103.4 | 116.2 | 106.2 | 87.9 | 83.1 | 89.2 | 95 | 106.8 |
| RHOBTB2 | 152.6 | 177.2 | 137.8 | 153.9 | 136.5 | 157.9 | 143.2 | 247.9 |
| RHOBTB3 | 195.2 | 232.1 | 207.6 | 294 | 244.2 | 362.9 | 239.6 | 314.9 |
| RHOC | 2423.3 | 3051.7 | 1008.5 | 592.4 | 425.5 | 736.6 | 2792.7 | 4319.9 |
| RHOC | 1060.7 | 1303.8 | 357.3 | 223.4 | 212.1 | 214.8 | 1181.7 | 959 |
| RHOD | 78.7 | 82 | 95.4 | 85.1 | 82.7 | 88.3 | 82.2 | 81.5 |
| RHOF | 97 | 111.8 | 105.6 | 84.4 | 94 | 99.4 | 103 | 126.1 |
| RHOG | 2266.1 | 3166.8 | 2265.2 | 1613.6 | 1128.9 | 1485.4 | 2569.8 | 4315 |
| RHOH | 96.8 | 116.8 | 90.6 | 94 | 76.2 | 72.9 | 99.2 | 117.1 |
| RHOJ | 79.7 | 85.8 | 101.1 | 82.2 | 93.6 | 81 | 89.2 | 90.9 |
| RHOQ | 1479.6 | 2004.4 | 946.6 | 1256.6 | 985.8 | 1019.4 | 1746.6 | 2015.2 |
| RHOT1 | 694.4 | 928.3 | 389.8 | 608.6 | 447 | 982 | 475.9 | 696.8 |
| RHOT1 | 1402.8 | 1887.3 | 734 | 1103.9 | 946.9 | 1543.8 | 1145.8 | 1670.8 |
| RHOT1 | 201.4 | 269.1 | 113 | 102.7 | 108.6 | 141.2 | 172.9 | 235.8 |
| RHOT2 | 580.2 | 635.7 | 634.2 | 468 | 431.3 | 743.9 | 387.4 | 794.2 |
| RHOV | 100.8 | 117.5 | 84.4 | 80.1 | 77.1 | 80.6 | 97.5 | 123.8 |
| RHPN1 | 143 | 172.8 | 128.7 | 96.1 | 93.4 | 118.5 | 143.7 | 172.5 |
| RHPN2 | 101.6 | 120.3 | 107.1 | 104.9 | 100.1 | 107.6 | 99.3 | 116.8 |
| RIBC1 | 149.8 | 159.1 | 111.3 | 89.9 | 88 | 99.7 | 118 | 152.7 |
| RIBC1 | 101.3 | 125.4 | 82 | 85.1 | 80.2 | 82.3 | 99.8 | 103.8 |
| RIBC2 | 86.7 | 97.5 | 96.1 | 91.1 | 81.6 | 88 | 86.5 | 94.3 |
| RIC3 | 80.4 | 92.3 | 86.2 | 80.7 | 86.9 | 82.8 | 80.2 | 85.9 |
| RIC8A | 867 | 1116.4 | 815.8 | 679.6 | 570 | 837.2 | 816.2 | 1495.6 |
| RIC8B | 169.1 | 203.4 | 99.9 | 99.1 | 85.1 | 97.3 | 162.2 | 221.9 |
| RICS | 192.1 | 297.9 | 236.8 | 289 | 260.9 | 444.8 | 189.8 | 345.7 |
| RICTOR | 126.3 | 142.6 | 100.3 | 91.2 | 88.9 | 93.4 | 112 | 134.2 |
| RIF1 | 399.5 | 592.6 | 253.8 | 296.3 | 246.5 | 520.6 | 371.8 | 506.2 |
| RILP | 287.3 | 321.5 | 155.4 | 180.2 | 135.8 | 189.1 | 241.4 | 354.3 |
| RIMBP2 | 96 | 99.9 | 106.4 | 99.9 | 97.9 | 88.8 | 95.7 | 96.2 |
| RIMS1 | 83.3 | 85.2 | 94 | 91.1 | 89.2 | 88.1 | 86.7 | 88.3 |
| RIMS2 | 132.7 | 138.1 | 86.2 | 77.5 | 79.1 | 82.2 | 126.2 | 134.5 |
| RIMS3 | 1462.5 | 1679.5 | 1694 | 2126.8 | 2084.6 | 1993.2 | 1360.6 | 1339.9 |
| RIMS4 | 135.7 | 155.4 | 100.4 | 89.9 | 81.3 | 92.1 | 136.8 | 156.3 |
| RIN1 | 209.5 | 271.6 | 145.7 | 107.8 | 92.4 | 135 | 196.8 | 259.3 |
| RIN2 | 76.6 | 85.7 | 99.8 | 94.8 | 84.2 | 90.6 | 75.3 | 90.2 |
| RIN3 | 109.2 | 119 | 107.4 | 100.6 | 85.4 | 98 | 93.1 | 124.7 |
| RING1 | 5437.3 | 6929.7 | 3270.5 | 2759.9 | 2371.7 | 3395.8 | 4545.1 | 5999.3 |
| RINT-1 | 262 | 343.2 | 223.4 | 223.8 | 214 | 267.8 | 215.1 | 355 |
| RIOK1 | 479.4 | 635.3 | 321.8 | 301.9 | 228.9 | 373 | 384.5 | 494.5 |
| RIOK1 | 88.8 | 87.9 | 89.9 | 77.3 | 80.2 | 83.4 | 87.6 | 98.2 |
| RIOK1 | 331.4 | 457 | 152.8 | 119.1 | 108.6 | 121.7 | 264 | 374.5 |
| RIOK2 | 1462.7 | 1972.5 | 816.2 | 645.3 | 469.4 | 1140.6 | 1050.3 | 1679.4 |

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|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| RIOK3 | 923 | 1073.1 | 451.9 | 492.4 | 428.5 | 491.5 | 679 | 926 |
| RIOK3 | 1637.4 | 1851 | 958.5 | 1562.8 | 1271 | 2041.2 | 1478 | 2604.7 |
| RIOK3 | 78.1 | 95.5 | 100.6 | 90.3 | 81.3 | 88.5 | 82.7 | 94.5 |
| RIP | 970.7 | 1285.9 | 827.7 | 913.2 | 801.8 | 1231 | 751.7 | 892.7 |
| RIPK1 | 137.4 | 159.7 | 205.4 | 210.3 | 213.8 | 245.2 | 160.4 | 197.5 |
| RIPK2 | 992.6 | 1337.3 | 687.5 | 457.1 | 339.2 | 549.4 | 794.8 | 1321.4 |
| RIPK3 | 344.5 | 431.8 | 215.8 | 180.6 | 166.3 | 187.4 | 285.1 | 317.4 |
| RIPK4 | 150.4 | 166.4 | 124.1 | 110.5 | 115 | 115.6 | 150.1 | 149 |
| RIPK5 | 135.1 | 166.4 | 134.7 | 123.3 | 122.2 | 146 | 128.6 | 149 |
| RIPK5 | 569.3 | 751.6 | 381.3 | 418.7 | 294.3 | 401.6 | 562.9 | 736.3 |
| RIS1 | 2018.1 | 2611.9 | 1310.9 | 1083.9 | 707.7 | 1033.9 | 1580.7 | 2227.9 |
| RIT1 | 287 | 376.8 | 159.1 | 128.6 | 134.5 | 172.8 | 823.7 | 1486.4 |
| RIT2 | 80.2 | 91.3 | 86.7 | 83.2 | 73.9 | 78.1 | 80.1 | 91.1 |
| RKHD1 | 89.2 | 95.4 | 85.6 | 81.8 | 78.4 | 80 | 90.6 | 100.3 |
| RKHD2 | 537.5 | 664.9 | 276.7 | 352.6 | 260.3 | 369.6 | 506.7 | 934.6 |
| RKHD3 | 98.1 | 93.6 | 94.7 | 80.6 | 83.7 | 93 | 97.7 | 126.4 |
| RLBP1 | 87.7 | 90.1 | 101 | 97.4 | 88.2 | 89 | 95.2 | 91 |
| RLF | 758.2 | 1027.9 | 276.7 | 478.2 | 363.3 | 767.4 | 856.8 | 1322.9 |
| RLN1 | 87 | 92.4 | 100.8 | 86.2 | 83.4 | 81.8 | 88.3 | 90.8 |
| RLN2 | 81.7 | 93.9 | 83.5 | 80.9 | 79.7 | 75.9 | 88.1 | 97.5 |
| RLN2 | 95.6 | 102.7 | 92 | 90 | 90.1 | 89.6 | 93.8 | 101.1 |
| RLN3 | 85.2 | 98.9 | 86.5 | 85.5 | 86.5 | 85.6 | 97.2 | 99.2 |
| RLN3R1 | 111.5 | 124.7 | 100.6 | 95.1 | 88.5 | 97.5 | 108 | 112.5 |
| RLN3R2 | 124.4 | 136.7 | 90.7 | 83.3 | 86.8 | 82.4 | 117.6 | 118.1 |
| RLTPR | 87.1 | 102.2 | 94.4 | 84.4 | 80.7 | 79 | 89.1 | 100.4 |
| RMI1 | 1941.6 | 2336.6 | 977.3 | 936.5 | 581 | 1038.1 | 1502.1 | 2347.7 |
| RN7SK | 645.4 | 736.2 | 407.1 | 1005.4 | 899.5 | 369.5 | 740.6 | 766.7 |
| RN7SL1 | 26300.9 | 25051.8 | 12468 | 18143.7 | 18257.6 | 14028.5 | 24924.1 | 26195.5 |
| RNASE1 | 131.8 | 145 | 106.3 | 101.6 | 99.7 | 107.5 | 114.5 | 134.1 |
| RNASE1 | 109.2 | 110.9 | 91 | 105 | 101.1 | 105.8 | 110.5 | 108.4 |
| RNASE10 | 116.8 | 137.4 | 117 | 111.2 | 100.2 | 113.5 | 106.8 | 117.4 |
| RNASE11 | 87.6 | 113.3 | 93.3 | 83.9 | 85.4 | 91.9 | 101 | 107 |
| RNASE12 | 72.3 | 87.3 | 96.8 | 86.3 | 80.6 | 80.9 | 78 | 80.1 |
| RNASE13 | 90.2 | 98.3 | 98 | 86.4 | 84.6 | 85.3 | 93 | 92.7 |
| RNASE2 | 26554.4 | 27065.9 | 14332.3 | 11237.8 | 8614 | 12275.8 | 24729.7 | 32036.4 |
| RNASE3 | 1368 | 1771.8 | 1058.6 | 1125.4 | 909.1 | 1240 | 1149.3 | 2012.6 |
| RNASE4 | 76.7 | 86.7 | 96.3 | 96.3 | 89.5 | 91.7 | 79.5 | 87.2 |
| RNASE4 | 90.3 | 110.8 | 94.5 | 107.1 | 102 | 96.3 | 94.3 | 100.4 |
| RNASE4 | 99.9 | 113.1 | 122.6 | 129.7 | 112.2 | 127.5 | 101.6 | 132.1 |
| RNASE4 | 138.1 | 144.4 | 105.1 | 92.2 | 97.3 | 105 | 143.8 | 148.8 |
| RNASE6 | 259.2 | 390 | 245 | 209.3 | 213.2 | 254.6 | 212.2 | 254.1 |
| RNASE7 | 85 | 93.5 | 73.5 | 76.6 | 80.3 | 88.2 | 84.9 | 94.3 |
| RNASE8 | 83.8 | 84.3 | 83.7 | 73.7 | 78.2 | 87.1 | 88 | 85.3 |
| RNASE9 | 74.7 | 81 | 88.7 | 80.8 | 74.8 | 76.6 | 75.4 | 80.3 |
| RNASEH1 | 1609.9 | 1911.4 | 1238.5 | 1339.9 | 990.3 | 1036.4 | 1289.9 | 2272.5 |
| RNASEH2A | 1019.8 | 1304.4 | 667.4 | 390.4 | 332.4 | 401.6 | 875.2 | 1030 |
| RNASEL | 721.6 | 845.4 | 335 | 393 | 312.2 | 527.3 | 661.3 | 1069.6 |
| RNASEN | 114.5 | 126.7 | 91.4 | 84 | 89.8 | 98.6 | 112.7 | 120.5 |
| RNASET2 | 21168.6 | 26141.3 | 14469.3 | 15846.3 | 13014.4 | 15950.5 | 19279.1 | 19466 |
| RND1 | 92.5 | 92.7 | 90.9 | 92.3 | 86.4 | 104 | 90.4 | 94.5 |

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|----------|--------|--------|-------|-------|-------|-------|--------|--------|
| RND2 | 115 | 124.6 | 120.2 | 106.8 | 96.3 | 105.2 | 106.4 | 124.8 |
| RND3 | 108 | 127.5 | 90.4 | 92 | 86.4 | 98.5 | 106.3 | 137.5 |
| RNF10 | 200.7 | 263 | 197.9 | 200.3 | 154 | 227.2 | 200.6 | 342.8 |
| RNF11 | 84.2 | 101 | 103.1 | 95.4 | 103.5 | 95.8 | 89.2 | 90.1 |
| RNF111 | 112.1 | 125.7 | 98.4 | 89.5 | 83.6 | 94.8 | 109.2 | 141.4 |
| RNF113A | 765.3 | 961.6 | 373.6 | 386.9 | 336.5 | 440.2 | 684.9 | 693.3 |
| RNF113B | 127.3 | 155.9 | 103.5 | 91.7 | 98.7 | 97.1 | 119.3 | 128.8 |
| RNF12 | 73.8 | 81.1 | 86.6 | 97.9 | 80.7 | 81.6 | 79.3 | 97.6 |
| RNF12 | 86.7 | 91.9 | 89.9 | 88.7 | 83.8 | 87.7 | 99.4 | 100.7 |
| RNF12 | 104.2 | 114.3 | 106.1 | 107.9 | 93.9 | 107.5 | 92.1 | 111.7 |
| RNF121 | 157.9 | 198.8 | 132 | 138.7 | 114 | 137.3 | 158.5 | 185.3 |
| RNF121 | 457.8 | 635.3 | 335.5 | 355.2 | 294.9 | 311.3 | 462.9 | 621.4 |
| RNF122 | 129.6 | 153.1 | 103.3 | 85.6 | 88.2 | 92.7 | 122.6 | 151.2 |
| RNF123 | 238.5 | 272.3 | 223 | 196.1 | 165.3 | 200.1 | 205.5 | 292.8 |
| RNF125 | 157.5 | 203.2 | 127.6 | 115.2 | 105.3 | 100.4 | 145.8 | 172.7 |
| RNF126 | 1042.7 | 1297.9 | 441.9 | 393.4 | 333.4 | 366.6 | 971.5 | 779.2 |
| RNF126 | 308.4 | 449.6 | 301 | 225.4 | 188.4 | 296.3 | 307.3 | 466.9 |
| RNF126P1 | 158.2 | 171.4 | 119.9 | 115.2 | 113.8 | 116.1 | 135.3 | 166.2 |
| RNF126P1 | 108 | 128.1 | 95.7 | 86.2 | 84.5 | 96.9 | 106.6 | 108.4 |
| RNF128 | 111.9 | 132.3 | 97.3 | 87.1 | 94.4 | 90.8 | 112.8 | 126.5 |
| RNF128 | 89.1 | 116.1 | 110.2 | 109 | 103 | 105.8 | 107.8 | 97.4 |
| RNF128 | 123.3 | 164.3 | 119.1 | 108.8 | 104.7 | 105.3 | 123 | 131.1 |
| RNF13 | 498.6 | 669.2 | 282.6 | 423.9 | 338.4 | 613.9 | 515.9 | 1625.9 |
| RNF13 | 110.3 | 124.3 | 90.1 | 105.8 | 100.1 | 93.7 | 103.6 | 106.4 |
| RNF130 | 1146.6 | 1603.9 | 475.3 | 696 | 580.9 | 940.7 | 1137.9 | 2167.9 |
| RNF133 | 98 | 93.4 | 107.6 | 99.5 | 92.2 | 100.7 | 91.1 | 94.4 |
| RNF135 | 472.8 | 643.5 | 333.6 | 336.4 | 224.1 | 411.4 | 521.2 | 1327.8 |
| RNF135 | 231.3 | 331 | 191.5 | 180.9 | 166 | 151.4 | 213.5 | 275.4 |
| RNF135 | 124.3 | 153.3 | 109.7 | 100.3 | 90.1 | 97.1 | 144.9 | 190.8 |
| RNF138 | 436.4 | 513.8 | 255.3 | 323.8 | 233.2 | 408.2 | 350.5 | 586.9 |
| RNF139 | 97.3 | 130.5 | 91.6 | 88.9 | 86.4 | 80.8 | 103.1 | 120.8 |
| RNF14 | 120.6 | 120.5 | 93.4 | 96.9 | 87.6 | 95.7 | 109.4 | 110.2 |
| RNF14 | 1021.2 | 1334.2 | 590.4 | 516.8 | 363.1 | 848.2 | 1013.2 | 1826.2 |
| RNF14 | 571.2 | 808.1 | 368.2 | 327.3 | 249.7 | 496.6 | 517.6 | 828.5 |
| RNF141 | 205 | 220.3 | 114 | 116.7 | 112.3 | 118.6 | 177.1 | 226.8 |
| RNF144 | 454.3 | 625.3 | 357.1 | 357.5 | 305 | 429.7 | 353.9 | 326.6 |
| RNF146 | 785.5 | 1253.5 | 441.8 | 432.6 | 384.1 | 633.2 | 699.3 | 838.9 |
| RNF148 | 125.6 | 136.4 | 129.2 | 109.6 | 106.4 | 116.7 | 117 | 130.7 |
| RNF149 | 129.1 | 165.6 | 100.7 | 115.1 | 108.7 | 99.6 | 133.8 | 184 |
| RNF150 | 104.3 | 120.2 | 108.8 | 114.6 | 102.8 | 140.2 | 99.8 | 105.3 |
| RNF151 | 85.6 | 84.5 | 101.6 | 93.4 | 82.2 | 86.7 | 93.1 | 96.6 |
| RNF151 | 82.5 | 96.7 | 89.6 | 84.1 | 76 | 84.5 | 79.8 | 89.2 |
| RNF152 | 84.9 | 86.8 | 102.8 | 97.8 | 92.2 | 88.2 | 91.7 | 97.9 |
| RNF157 | 113.5 | 141.6 | 107.3 | 99.2 | 89.6 | 99.9 | 122.3 | 136.8 |
| RNF165 | 152.8 | 191.1 | 166.3 | 121.1 | 120 | 125.1 | 112.6 | 144.5 |
| RNF166 | 178.4 | 195.6 | 149.4 | 118.4 | 116.2 | 141.4 | 159.8 | 281.2 |
| RNF167 | 580.3 | 765.1 | 223.6 | 211 | 177.1 | 212.2 | 461 | 688.3 |
| RNF168 | 127.4 | 128.3 | 93 | 96.2 | 92 | 88.9 | 123.7 | 131.8 |
| RNF17 | 75.6 | 78.9 | 90.5 | 82.4 | 82 | 81.4 | 79.9 | 91.3 |
| RNF17 | 91.3 | 98.3 | 92 | 79.3 | 86.8 | 89.9 | 91.5 | 93.8 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| RNF170 | 336.9 | 468.5 | 212.6 | 186.1 | 157.4 | 219 | 333.8 | 560.2 |
| RNF175 | 854.7 | 1013.6 | 263.4 | 217.4 | 206.4 | 215.3 | 676.8 | 860.9 |
| RNF180 | 106 | 112.2 | 96.3 | 85.1 | 81.1 | 95.2 | 101 | 101.6 |
| RNF183 | 120 | 166.4 | 101 | 101.5 | 84.3 | 93.8 | 129.8 | 141.6 |
| RNF185 | 106.1 | 117 | 127.2 | 125.4 | 101.8 | 146.5 | 119.7 | 123.7 |
| RNF186 | 99.9 | 123.8 | 93.6 | 86.5 | 78.7 | 91.9 | 101.6 | 137.4 |
| RNF19 | 176.7 | 183.2 | 131 | 143.4 | 140 | 109.4 | 146.1 | 203 |
| RNF19 | 98.1 | 109.7 | 96.6 | 93.5 | 80.6 | 82.9 | 105.9 | 119.9 |
| RNF19 | 654.6 | 860 | 464.5 | 444.9 | 347.5 | 821.1 | 471.5 | 709.3 |
| RNF190 | 75.8 | 86.1 | 90.9 | 79.1 | 83.4 | 91 | 85.9 | 86.9 |
| RNF2 | 116.6 | 111.8 | 94.7 | 89.3 | 93.1 | 89.7 | 94.2 | 113.4 |
| RNF20 | 1014.9 | 1303.8 | 569.7 | 543.4 | 456.9 | 759.5 | 829.3 | 1349.9 |
| RNF24 | 421.5 | 514.4 | 406.7 | 838.5 | 603.1 | 1089.8 | 418.9 | 794.6 |
| RNF25 | 164.3 | 165.2 | 138.4 | 110.9 | 126.2 | 126.9 | 130.8 | 165.6 |
| RNF26 | 549.2 | 728.4 | 379.1 | 285.9 | 214.2 | 267.8 | 507.2 | 994.5 |
| RNF31 | 268.4 | 283.7 | 282.9 | 219.2 | 179.7 | 268.9 | 242 | 386.6 |
| RNF32 | 127.6 | 166.1 | 102.8 | 103.9 | 97.7 | 102.9 | 121.6 | 155.1 |
| RNF34 | 2340.6 | 3297.4 | 1674.3 | 1578.2 | 1351.2 | 1900.2 | 2170.3 | 3092.9 |
| RNF34 | 151.8 | 199.4 | 124.6 | 87.6 | 103.1 | 99.1 | 142.3 | 140.1 |
| RNF34 | 92.4 | 96.4 | 81.9 | 94.6 | 77.1 | 85 | 91.3 | 109.6 |
| RNF36 | 81.8 | 86.5 | 81.3 | 81.9 | 73.7 | 80.3 | 86.7 | 93.6 |
| RNF36 | 125.8 | 154.9 | 101.4 | 95.6 | 96.8 | 92.8 | 112.7 | 130.1 |
| RNF38 | 121 | 152.2 | 85.6 | 85 | 73.6 | 92.7 | 116.3 | 168.4 |
| RNF38 | 211.5 | 332.7 | 172.5 | 156.4 | 135.1 | 145.7 | 205.3 | 221.8 |
| RNF38 | 579.7 | 886.9 | 666.3 | 829.6 | 749.8 | 997.5 | 720.2 | 1068.6 |
| RNF39 | 89.5 | 102.9 | 87.1 | 85.2 | 78.8 | 89.2 | 87.6 | 101.4 |
| RNF39 | 112.6 | 104.8 | 92.1 | 89.5 | 83.9 | 94.5 | 95.7 | 106.9 |
| RNF4 | 361.5 | 484.2 | 275.8 | 223.7 | 196.1 | 322.7 | 285.5 | 544.1 |
| RNF40 | 281.5 | 405.9 | 405.9 | 331.8 | 277.1 | 562.2 | 292.4 | 537 |
| RNF41 | 210.5 | 282.5 | 153.6 | 135.3 | 152.3 | 192 | 225.2 | 260.5 |
| RNF41 | 104.1 | 113 | 101.1 | 104 | 95.8 | 101 | 86.5 | 104.6 |
| RNF43 | 95.9 | 99.7 | 107 | 101.6 | 93.4 | 93.6 | 101.3 | 118.9 |
| RNF44 | 245.4 | 245.5 | 215.4 | 256.8 | 258.5 | 433 | 168.6 | 239.3 |
| RNF5 | 705.3 | 885.8 | 423.7 | 371.4 | 342.3 | 475.3 | 660.1 | 756.6 |
| RNF5P1 | 2336.5 | 3100.3 | 1329.8 | 1278.1 | 1098.1 | 1613.5 | 2203.6 | 2536.1 |
| RNF5P1 | 658.3 | 828.7 | 359.1 | 319.6 | 293.6 | 374.7 | 603.7 | 771.5 |
| RNF6 | 115.2 | 129.2 | 95.1 | 91.7 | 94 | 97.8 | 107.6 | 117.7 |
| RNF6 | 103.2 | 115.3 | 98.5 | 85.8 | 94.4 | 96.2 | 90.3 | 104.1 |
| RNF6 | 262.7 | 285.9 | 119.6 | 126.5 | 107.1 | 111.3 | 160.2 | 241.7 |
| RNF7 | 111.5 | 129.8 | 109.5 | 99.6 | 95.4 | 102.6 | 115.3 | 122.9 |
| RNF8 | 116 | 138.7 | 111.2 | 98.2 | 93.3 | 90.7 | 105.8 | 146.7 |
| RNF8 | 725.2 | 1001.4 | 344.1 | 290.6 | 252.4 | 406.3 | 574.9 | 780.6 |
| RNGTT | 1406.4 | 1780.8 | 825.1 | 1269.3 | 915.1 | 1291.1 | 1232.8 | 1737.2 |
| RNH1 | 2201.9 | 3035.6 | 2304.3 | 1376.3 | 1191.8 | 1602.9 | 1849.9 | 2567.1 |
| RNH1 | 736 | 944.5 | 379.9 | 300.7 | 259.1 | 427 | 768.4 | 1677.5 |
| RNMT | 530.1 | 640.6 | 536.2 | 841.3 | 707.7 | 949.8 | 497.6 | 683.7 |
| RNMTL1 | 920.7 | 1308.8 | 504.8 | 401.7 | 378.3 | 433.3 | 817.4 | 893.6 |
| RNPC1 | 178.4 | 234.6 | 202 | 174.5 | 148.5 | 200.7 | 174 | 277.7 |
| RNPC2 | 100.1 | 112.1 | 93.4 | 84.3 | 85 | 95.1 | 101.2 | 112.8 |
| RNPC3 | 386 | 424 | 185.5 | 149.7 | 136.3 | 160.6 | 261.7 | 426.2 |

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|------------|---------|---------|--------|---------|---------|---------|---------|---------|
| RNPEP | 1556.3 | 1952.1 | 631.2 | 545.5 | 519.2 | 559.8 | 1251.8 | 950.1 |
| RNPEPL1 | 125.7 | 163.8 | 109.6 | 116.4 | 89.9 | 113.5 | 114.4 | 191.8 |
| RNPS1 | 2621.5 | 3815.6 | 2192 | 1055.8 | 905.6 | 1345.4 | 2193.7 | 3488 |
| RNPS1 | 247 | 380.7 | 208.9 | 126.3 | 116.4 | 128.1 | 227.8 | 333.8 |
| RNU2 | 156.3 | 134.8 | 102.9 | 100.9 | 101.8 | 97.1 | 100.8 | 123.7 |
| RNU3IP2 | 356.8 | 420 | 170.8 | 107.8 | 106.2 | 127.3 | 250.7 | 333.7 |
| RNUT1 | 1241.6 | 1682.6 | 1027.9 | 839.2 | 808.1 | 1073.2 | 1195.7 | 2153.1 |
| RNUXA | 227.4 | 252.4 | 171.7 | 220.1 | 223.6 | 185.3 | 237.5 | 379.8 |
| ROBO1 | 94.6 | 106 | 94.2 | 94.6 | 86.5 | 95.9 | 91.3 | 98.2 |
| ROBO1 | 137.6 | 143.1 | 101 | 107.6 | 101.3 | 135.2 | 124.5 | 158.4 |
| ROBO1 | 112.4 | 108.1 | 88.9 | 75.6 | 80.5 | 83.2 | 102 | 121.7 |
| ROBO2 | 78.9 | 92.9 | 90.2 | 83.5 | 82.9 | 86.1 | 89.8 | 97.9 |
| ROBO3 | 360.2 | 335.4 | 238.5 | 150.1 | 148.6 | 174.8 | 273.8 | 553.5 |
| ROBO4 | 94 | 128 | 88.4 | 83.3 | 87.5 | 88.7 | 105.7 | 107.1 |
| ROCK1 | 310.5 | 469.1 | 152.2 | 185.6 | 187.5 | 199.5 | 321.6 | 449.2 |
| ROCK2 | 19785.8 | 21470.5 | 9638.2 | 14897.9 | 14645.1 | 10837.4 | 17637.5 | 19091.8 |
| ROD1 | 2879.6 | 3832.5 | 1298.3 | 1593.7 | 1046.1 | 1827.2 | 2839.7 | 4503.4 |
| ROM1 | 174 | 203.3 | 126.3 | 127.9 | 116.7 | 135.7 | 156 | 177.3 |
| ROPN1 | 98.5 | 101.3 | 96.5 | 90.8 | 85.6 | 90.4 | 93.6 | 107.1 |
| ROPN1B | 104.2 | 103.8 | 96.9 | 88.6 | 97.3 | 85.7 | 99.5 | 108.1 |
| ROPN1B | 105.6 | 133.1 | 105.5 | 98.2 | 91.9 | 102.9 | 104.1 | 118.3 |
| ROPN1L | 149.3 | 183.6 | 141.5 | 88.8 | 94.1 | 90.7 | 151.8 | 179.7 |
| ROR1 | 86.8 | 88.5 | 101.2 | 85.7 | 79.7 | 94.4 | 83.8 | 100.2 |
| ROR2 | 94.8 | 102.1 | 94.6 | 93.3 | 87.1 | 86.1 | 98.9 | 102.2 |
| RORA | 89.1 | 95.9 | 95.1 | 84.8 | 85.4 | 91.5 | 88.8 | 104.2 |
| RORA | 69 | 86.2 | 88.4 | 79.2 | 85.1 | 77.4 | 78.8 | 77.6 |
| RORA | 93.9 | 88.1 | 92.1 | 83.3 | 87.6 | 89.5 | 82.8 | 95.2 |
| RORA | 108.2 | 130.2 | 118 | 106.1 | 95.6 | 114.2 | 125.8 | 133.2 |
| RORA | 82.1 | 91.2 | 95 | 86.7 | 79.5 | 75.6 | 77.8 | 88.8 |
| RORA | 87.1 | 96 | 98.2 | 85.5 | 77.9 | 81.2 | 85.6 | 87.5 |
| RORB | 92.6 | 96.5 | 82.9 | 79.6 | 80.6 | 80.5 | 80.8 | 94.7 |
| RORC | 80.8 | 94.7 | 91.2 | 81.9 | 77 | 88.9 | 84.8 | 91 |
| RORC | 96.4 | 113.9 | 94.8 | 87.7 | 72.9 | 93.4 | 94.4 | 116 |
| RORC | 102.6 | 116.3 | 103 | 92.6 | 98 | 102.6 | 99.9 | 112.9 |
| RORC | 84.2 | 94.2 | 91.3 | 84.1 | 86 | 90 | 87.8 | 96 |
| ROS1 | 96.6 | 118.4 | 91.1 | 87 | 90.4 | 96.9 | 103.3 | 97.3 |
| RP1 | 80.1 | 106.2 | 98.3 | 97.2 | 96.2 | 98.5 | 82.7 | 81.9 |
| RP1-112K5 | 788.8 | 1014.8 | 402.9 | 312.7 | 272.4 | 345.9 | 766.1 | 913 |
| RP11-19J3. | 276.9 | 347.9 | 245.4 | 198.8 | 178.3 | 224.3 | 217.7 | 307.5 |
| RP11-450P | 87.2 | 102.7 | 106.3 | 86.2 | 79.5 | 90.7 | 84.3 | 97.3 |
| RP11-529I1 | 269.7 | 285.1 | 174.3 | 140.9 | 128.1 | 169.7 | 208.8 | 244.9 |
| RP11-564C | 109.1 | 135.8 | 101.7 | 97.8 | 91.5 | 100.3 | 109.9 | 128 |
| RP13-11B7 | 117 | 120.3 | 96.2 | 69.2 | 75.7 | 95.2 | 99.4 | 147.1 |
| RP13-15M1 | 101.5 | 114 | 99.4 | 93.5 | 87 | 90 | 109.9 | 103.6 |
| RP13-15M1 | 112.2 | 134.7 | 141.3 | 126.5 | 114.1 | 130.4 | 105.9 | 131.7 |
| RP1-32F7.2 | 104.5 | 119.8 | 89.9 | 86.4 | 90.7 | 89.4 | 108.7 | 119.3 |
| RP1L1 | 83.3 | 85.8 | 94.4 | 91.9 | 82.5 | 92.4 | 85.9 | 88.5 |
| RP2 | 607.2 | 860.6 | 428.8 | 497.9 | 348 | 536.8 | 449.2 | 717.8 |
| RP9 | 831.2 | 1111.2 | 524.4 | 609.6 | 483.3 | 751.3 | 728.4 | 846.2 |
| RPA1 | 1984.5 | 2669.2 | 775.9 | 938.6 | 574.1 | 978.5 | 1543.1 | 2077.1 |

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|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| RPA2 | 2994.6 | 3429.3 | 2137.1 | 1753.8 | 1409.1 | 2002 | 2781.3 | 3348.5 |
| RPA3 | 6403.1 | 6558.7 | 3892.6 | 3546.1 | 2660.4 | 3194.9 | 6115.3 | 8141.3 |
| RPA4 | 110.2 | 123.6 | 95.9 | 122.6 | 120.3 | 134.2 | 108.8 | 113.2 |
| RPAIN | 1586.8 | 1749.1 | 1389.9 | 1378.2 | 1162.2 | 1721 | 1308.5 | 1757.2 |
| RPAP1 | 186.8 | 210.7 | 171.8 | 192.8 | 173.6 | 176.5 | 175.7 | 234.2 |
| RPE | 121.2 | 122.3 | 94.7 | 81.4 | 75.7 | 78.6 | 121.3 | 107.3 |
| RPE | 1880.1 | 2527.2 | 951.3 | 701.8 | 552.3 | 1265.2 | 1241.6 | 1872.4 |
| RPE | 86.7 | 102.8 | 100.4 | 90.1 | 99.8 | 88.3 | 88.1 | 95.6 |
| RPE65 | 87.7 | 87.4 | 102.4 | 85.4 | 92.4 | 86 | 87.1 | 82.4 |
| RPESP | 98.4 | 101 | 98.3 | 99.6 | 93.8 | 93.3 | 98.6 | 102.6 |
| RPGR | 91.6 | 102.7 | 74.9 | 87.7 | 82.5 | 83.4 | 90.2 | 107.3 |
| RPGR | 274.1 | 327.6 | 139.6 | 128 | 121.4 | 173.5 | 242 | 467.9 |
| RPGR | 243.8 | 315.8 | 105.6 | 105.5 | 91.2 | 96.2 | 192.4 | 251.2 |
| RPGRIP1 | 79.1 | 92.6 | 78 | 91.2 | 83 | 88.3 | 77.8 | 93.1 |
| RPH3A | 106.5 | 117.3 | 101.8 | 98.7 | 99.3 | 100.3 | 94.2 | 102.4 |
| RPH3AL | 92.9 | 112.5 | 109 | 93.6 | 88 | 94.3 | 104.3 | 102.1 |
| RPIA | 1662.8 | 2237.4 | 589.4 | 512.7 | 375.8 | 568.8 | 1292.2 | 1723.2 |
| RPIB9 | 100 | 112.9 | 77.4 | 82 | 90.4 | 83.1 | 94 | 127.8 |
| RPIP8 | 83.6 | 92.7 | 92.6 | 85.6 | 77.2 | 94.6 | 83.6 | 94.9 |
| RPL10 | 105.2 | 114.6 | 90.1 | 78.5 | 76.7 | 83.5 | 97.3 | 140.7 |
| RPL10A | 30648 | 30786.2 | 25267.2 | 23645.5 | 19272 | 22396.6 | 30897.2 | 30565.7 |
| RPL10L | 105.3 | 126.4 | 88.2 | 90.1 | 87 | 89.3 | 106.6 | 133.4 |
| RPL11 | 24792.1 | 26495.5 | 13341.9 | 13653.4 | 13828.9 | 15378.7 | 25019.4 | 27665.1 |
| RPL12 | 31313.3 | 30145.6 | 37481.2 | 27130 | 23619.9 | 30080.6 | 29252 | 29572.2 |
| RPL13 | 347.8 | 417.1 | 216.2 | 140.1 | 118.3 | 112.6 | 279.1 | 305.9 |
| RPL13 | 1219.9 | 1529.9 | 399.5 | 321.1 | 265.4 | 340.5 | 1102.9 | 1343 |
| RPL13A | 5424.5 | 6952.5 | 2034.9 | 1080.9 | 986.1 | 1390.8 | 4858.8 | 5929.5 |
| RPL14 | 1372.7 | 1617 | 391.9 | 286.4 | 273.7 | 442.9 | 2045 | 2421.7 |
| RPL14 | 2893.7 | 3570.1 | 1509.1 | 1639.3 | 1152.6 | 1623.7 | 2870.5 | 3274 |
| RPL17 | 25241.3 | 27088.6 | 19805.1 | 18397.1 | 16267.1 | 21807.2 | 23925.7 | 25691 |
| RPL17 | 3398.9 | 4331 | 2323.9 | 2825.4 | 2170.7 | 3430.8 | 2811.6 | 3131.6 |
| RPL18 | 30935.2 | 28463.7 | 23895.2 | 17718.8 | 14726.9 | 13940.7 | 29914.5 | 31592.6 |
| RPL18A | 32081.7 | 27742 | 32118 | 22272.2 | 18694.2 | 19608.9 | 28699 | 28905.3 |
| RPL19 | 31960.8 | 31668 | 24855.9 | 20004.1 | 15769.6 | 25843.2 | 28918.8 | 33417.4 |
| RPL21 | 7680.8 | 8440.9 | 5417.3 | 4518.9 | 2646.6 | 5581 | 5394.9 | 6761 |
| RPL22 | 4577.1 | 5963.6 | 4022.6 | 5127.4 | 3919.1 | 5902.1 | 4631 | 6785.3 |
| RPL23 | 7285.7 | 8192.7 | 2095.6 | 1345.9 | 1730.2 | 1792.6 | 7172.9 | 9503.6 |
| RPL23A | 1517.1 | 1813.7 | 464.5 | 545.9 | 324.9 | 552.5 | 1391.4 | 2568.6 |
| RPL23AP13 | 190.4 | 248.7 | 131.5 | 123.7 | 120.8 | 132.1 | 196.8 | 295.7 |
| RPL23AP7 | 486.1 | 656.7 | 261.7 | 274.8 | 210.3 | 292.3 | 441.2 | 523.2 |
| RPL24 | 24927.5 | 26878 | 20165.8 | 20274.6 | 14940 | 21911 | 22248.8 | 23292.7 |
| RPL26 | 7059.5 | 7367.1 | 4245.5 | 4973.4 | 3322.2 | 6391.9 | 5598.7 | 6496.9 |
| RPL26L1 | 2131.8 | 2390.5 | 1938.7 | 2236.1 | 1433.7 | 2399.9 | 1850 | 3348 |
| RPL27 | 32218 | 32611.6 | 30375.3 | 33117.3 | 27787.3 | 32030.7 | 29479.5 | 29138.2 |
| RPL27A | 26638.5 | 28355 | 14528.1 | 12487.2 | 10720 | 16134.4 | 26022.7 | 25864.8 |
| RPL28 | 748.9 | 929.3 | 484.3 | 331.8 | 274.7 | 321.4 | 807.6 | 1136.1 |
| RPL29 | 2299.6 | 2923.1 | 1880.9 | 841.2 | 535.3 | 942 | 1328.7 | 1450.1 |
| RPL29P2 | 121.9 | 140.4 | 132 | 111.4 | 120.6 | 116.5 | 118.4 | 113.6 |
| RPL3 | 25009.7 | 28682.3 | 11175.7 | 8341.9 | 6468.3 | 12961.9 | 24309.9 | 27272.8 |
| RPL3 | 24375.4 | 26092.6 | 11645.7 | 10855.4 | 11223.8 | 10011.3 | 23682.3 | 25828.1 |

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| RPL30 | 30428.5 | 31670.5 | 25841.2 | 19055.2 | 14699.1 | 20377.9 | 26254 | 29012.6 |
| RPL31 | 10142.3 | 12297 | 4063.7 | 5030.9 | 3738 | 5186.7 | 8992.7 | 8668.5 |
| RPL32 | 463 | 603.2 | 420.5 | 343.8 | 258.2 | 318.6 | 444.6 | 731.6 |
| RPL32P3 | 119.6 | 153.6 | 120.6 | 93.1 | 105.5 | 104.1 | 121 | 140.3 |
| RPL34 | 968 | 1333.8 | 848.4 | 1008.3 | 638.7 | 1205 | 754.3 | 1100.1 |
| RPL34 | 2343 | 2914.4 | 1319.1 | 1110.3 | 796.6 | 1416.3 | 1622.1 | 2122.5 |
| RPL35 | 21482.2 | 23405 | 9673.5 | 9419.8 | 7893.6 | 11987.8 | 21050.4 | 21877.3 |
| RPL35A | 28054.8 | 28787.5 | 28371.3 | 24664.2 | 18667.1 | 28587.2 | 20457.7 | 20233.9 |
| RPL36 | 13204.7 | 15154.2 | 9283.3 | 5913.8 | 4550.5 | 6746 | 11359.4 | 13753.8 |
| RPL36 | 320.3 | 350.6 | 285.8 | 174 | 151.6 | 165.9 | 333.5 | 298.9 |
| RPL36A | 631.3 | 805.6 | 435.4 | 306.2 | 209.2 | 367.3 | 526.3 | 599.8 |
| RPL36AL | 12416.9 | 15117.1 | 4516.3 | 3281.8 | 3120.6 | 4319.2 | 10948 | 14387.5 |
| RPL37 | 195.1 | 230.4 | 122.1 | 130.9 | 116.5 | 120.5 | 160.4 | 207.6 |
| RPL37A | 18717.1 | 21602.5 | 7178.8 | 5139.1 | 4983.6 | 5080.4 | 19511.4 | 23841.6 |
| RPL38 | 30320.6 | 29192.7 | 43566.2 | 43735.7 | 35327.9 | 44653.5 | 32022.8 | 31257.5 |
| RPL38 | 31970.3 | 30757.8 | 30029.4 | 30503.7 | 24863.3 | 28324.4 | 33370.8 | 32536.1 |
| RPL39 | 25328.4 | 25888.4 | 24999.6 | 23468.8 | 17335.8 | 27270.6 | 22434 | 23314 |
| RPL39L | 2770.2 | 3261.5 | 2210.1 | 1751.3 | 1361.6 | 2109.8 | 2093.7 | 3847.6 |
| RPL3L | 95.6 | 96.7 | 98.6 | 94.8 | 82.9 | 88.9 | 85.8 | 96.4 |
| RPL4 | 15670.9 | 20860 | 10115.4 | 11366.2 | 10161.2 | 14101.9 | 14528.8 | 17026.2 |
| RPL41 | 168.3 | 193.9 | 144.4 | 104.6 | 102.5 | 106.2 | 133.2 | 161.7 |
| RPL41 | 33697.2 | 29331.9 | 34910.9 | 34792.1 | 30763.1 | 35197.7 | 34262 | 32962.2 |
| RPL5 | 16046.2 | 18152.1 | 8166.2 | 8348.5 | 6044.5 | 8508.7 | 14374.5 | 17004.8 |
| RPL6 | 1452.9 | 1809.2 | 819 | 794.3 | 628.9 | 1075.9 | 963.3 | 1157.2 |
| RPL7 | 4036.5 | 5111.1 | 1102.3 | 953.2 | 532.6 | 1302.2 | 4514.6 | 6173.9 |
| RPL7A | 1342.3 | 1763.7 | 327.6 | 300.9 | 254.1 | 376.8 | 1655.4 | 1815.3 |
| RPL7L1 | 11643.2 | 12704.6 | 6258.6 | 7443.2 | 6714.9 | 5957.1 | 10479.6 | 10632.4 |
| RPL8 | 1261.7 | 1832.1 | 842.8 | 429.5 | 380.6 | 286.7 | 1007.2 | 1190.6 |
| RPL8 | 31319.4 | 29852.1 | 33976.9 | 27360.3 | 22934.4 | 27687.6 | 32545.3 | 28617.4 |
| RPL9 | 1079 | 1520.3 | 568.2 | 551.1 | 422.5 | 686.2 | 776 | 873.8 |
| RPL9 | 7078.1 | 7042.6 | 2670 | 2221.4 | 1844.4 | 2724.8 | 7171.3 | 13426.9 |
| RPLP0 | 117.6 | 115.8 | 87 | 74 | 77.9 | 83.2 | 108.4 | 119.3 |
| RPLP0 | 4236.4 | 5173.2 | 2590.8 | 1869.1 | 1540.7 | 1902 | 3048 | 3520.2 |
| RPLPOP2 | 98.9 | 113.9 | 100.1 | 95.2 | 94.6 | 93.7 | 89.1 | 99.3 |
| RPLP1 | 27832.9 | 28106.5 | 17175 | 13865.2 | 10042.8 | 11605.7 | 27737.1 | 28735.9 |
| RPLP1 | 18952.7 | 21343 | 5820.2 | 6986.2 | 4915.6 | 5607.9 | 17716.9 | 22634.8 |
| RPLP2 | 28011.5 | 27488.5 | 22914 | 18106.6 | 15582.2 | 17323.9 | 26511.3 | 28050.7 |
| RPN1 | 6854.4 | 8684.2 | 6000 | 5843.5 | 5220.5 | 7969.6 | 6075.9 | 7431.9 |
| RPN2 | 1285.6 | 1740.1 | 464.9 | 399.3 | 288.6 | 698.1 | 1198.5 | 2435.9 |
| RPP14 | 132.3 | 135.2 | 85.5 | 73.7 | 76.5 | 94.7 | 129.9 | 144.8 |
| RPP21 | 911.4 | 1111.7 | 729.6 | 656.7 | 534.1 | 580.7 | 895.3 | 872.6 |
| RPP25 | 419.1 | 615.2 | 281.6 | 168 | 157.1 | 226.3 | 367.6 | 653 |
| RPP30 | 88.2 | 94.3 | 98.5 | 88.2 | 88.3 | 86.3 | 83.9 | 96.7 |
| RPP38 | 230.4 | 284 | 203.2 | 130.2 | 122.4 | 144.2 | 186.8 | 242.4 |
| RPP38 | 128.5 | 157.8 | 96.5 | 90.8 | 86 | 95.1 | 144 | 149.3 |
| RPP40 | 1530.8 | 1979.4 | 1113.9 | 1073.5 | 699 | 987.9 | 1355.8 | 1607.5 |
| RPRC1 | 2214.6 | 2691.1 | 1354 | 1477.8 | 1215.8 | 1137.1 | 1939.7 | 2122.1 |
| RPRM | 89.9 | 106 | 103.4 | 93.9 | 75.2 | 83.8 | 89.4 | 96.4 |
| RPRML | 161.7 | 200.1 | 117.7 | 112.5 | 97.5 | 102.1 | 137.2 | 148.8 |
| RPS10 | 27516.7 | 27322.5 | 38454.3 | 33903.5 | 31389.6 | 38436.4 | 27100 | 28153.1 |

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| RPS11 | 33058.6 | 31020.8 | 25078.4 | 20985.9 | 19893.6 | 26000.9 | 27934.4 | 31086.1 |
| RPS12 | 30787.3 | 27462.7 | 39228.2 | 38451.4 | 33609.1 | 38997.4 | 33152.4 | 30334.7 |
| RPS13 | 25304.7 | 28068 | 12084 | 10293.6 | 7094.5 | 12253.9 | 21848.3 | 24871.9 |
| RPS14 | 28154.6 | 28175.5 | 19483.6 | 18869.2 | 16902.3 | 18422.7 | 27811.8 | 29578.2 |
| RPS14 | 17416.1 | 20994.4 | 10521.3 | 10401.5 | 8234.7 | 10415 | 17192 | 17884.1 |
| RPS15 | 23238.5 | 25989.9 | 14241.2 | 9449.1 | 7527.3 | 10246.7 | 20729.3 | 22660.2 |
| RPS15A | 15827.2 | 15333 | 4487.1 | 4901.3 | 3322.6 | 5211.2 | 15662.3 | 16727.3 |
| RPS15A | 33275 | 29346.2 | 29686.5 | 28841.1 | 24431.4 | 31531.5 | 31511.7 | 25975.7 |
| RPS15A | 11072.1 | 13752 | 8165.3 | 6349.3 | 4820.8 | 7624.7 | 9974.9 | 9514.9 |
| RPS16 | 26077.9 | 25241.7 | 24526.7 | 20962.1 | 21498.9 | 22222.1 | 27789.2 | 27311.8 |
| RPS17 | 26494.9 | 25276.2 | 25602.6 | 26860.1 | 22126.6 | 24613.4 | 27210.5 | 24210.9 |
| RPS19 | 26978 | 26850.3 | 10745.6 | 8345.7 | 6573.6 | 6288.6 | 25853.3 | 25764.3 |
| RPS19BP1 | 909.6 | 1014.6 | 547 | 450.6 | 403.8 | 708.7 | 739.7 | 1022.2 |
| RPS2 | 26075.7 | 30173.6 | 16874.3 | 9273.4 | 9014.3 | 10322.2 | 25960.5 | 27449.5 |
| RPS20 | 26964.7 | 30128 | 13326.2 | 11435.4 | 8886.4 | 11843.3 | 27622.8 | 27945 |
| RPS21 | 6469.8 | 7473.6 | 5486.8 | 3477.9 | 2571.7 | 4139.3 | 5005.6 | 4854.6 |
| RPS23 | 2404.3 | 2993 | 1734.9 | 2094.7 | 1512.5 | 2045 | 1721.4 | 2397.6 |
| RPS24 | 4195.2 | 5319.9 | 2918.2 | 1705.6 | 1270.4 | 3022.2 | 3194.4 | 3359.3 |
| RPS24 | 10292.4 | 12560.5 | 4359.8 | 3599.1 | 3131.7 | 3669.2 | 10871.1 | 12516.8 |
| RPS25 | 31015.3 | 30888 | 55355.2 | 45035.8 | 39169.1 | 47765.9 | 32488.8 | 32265.5 |
| RPS26 | 7235.3 | 8005.4 | 3547.8 | 3139 | 2104.5 | 3173.5 | 6309.8 | 9867.9 |
| RPS26L | 4332.8 | 4986.5 | 1848.1 | 1448.7 | 909.8 | 1239.6 | 3943.9 | 6771.8 |
| RPS26L1 | 84.6 | 97.5 | 80.3 | 82.5 | 92.4 | 84.2 | 80.1 | 100.9 |
| RPS27 | 29338.6 | 27373.1 | 47753.2 | 47582.3 | 43591.2 | 47875.8 | 27496.6 | 27941 |
| RPS27A | 29802.8 | 27052.8 | 39948.9 | 37512.1 | 33862.5 | 34561.7 | 28057.6 | 30952.3 |
| RPS27L | 84.5 | 91.6 | 102.9 | 88 | 76.2 | 92.4 | 80.4 | 97.1 |
| RPS28 | 9445.7 | 11795.9 | 4195.5 | 2440.6 | 1957.7 | 2410.4 | 9827.7 | 19967.2 |
| RPS29 | 20842.6 | 20283.6 | 13795.7 | 10783.2 | 7389.9 | 11753.9 | 15506.2 | 16204.8 |
| RPS29 | 748.8 | 988.8 | 573.2 | 381.8 | 333.9 | 390.1 | 894.7 | 899.7 |
| RPS29 | 25871.8 | 29176.2 | 43229.1 | 40472.9 | 35846.3 | 39108.1 | 27148.3 | 28533.7 |
| RPS29 | 28727 | 30052.5 | 33541.7 | 30088.1 | 27425 | 30747.5 | 30811.4 | 29613.9 |
| RPS3 | 32242.9 | 32183.6 | 34871.4 | 23603 | 21149.1 | 23723.7 | 33242.7 | 34100.7 |
| RPS3A | 22943.8 | 24082.3 | 9391.3 | 8286.9 | 5874.2 | 6067.9 | 24091 | 26491.4 |
| RPS4X | 10312.4 | 14084.8 | 7766.1 | 6660.3 | 5451.1 | 7682.9 | 8604.6 | 8669.6 |
| RPS4Y1 | 10350.8 | 13359.2 | 5819.9 | 6320.2 | 4827.5 | 6708.4 | 8548.1 | 12121.4 |
| RPS4Y2 | 845.3 | 1129.2 | 330.3 | 357.7 | 222.5 | 426.4 | 680.9 | 1087 |
| RPS5 | 28506.7 | 30225.9 | 17958.9 | 13332.5 | 10455.3 | 17032.9 | 24225.1 | 26613.1 |
| RPS6 | 25015.8 | 25591.8 | 9944.7 | 9452.7 | 7768.3 | 10477.3 | 22256 | 25257.9 |
| RPS6KA1 | 114 | 105.1 | 87 | 92 | 81.4 | 87.1 | 106.3 | 101 |
| RPS6KA1 | 639.3 | 723.7 | 540.8 | 627.5 | 541 | 668.2 | 539 | 668.8 |
| RPS6KA2 | 85.6 | 84.7 | 96.2 | 93.5 | 92.7 | 97.4 | 83 | 104.8 |
| RPS6KA2 | 144.2 | 196.6 | 164.7 | 203.1 | 201.2 | 228 | 234.3 | 430.4 |
| RPS6KA2 | 93.8 | 102 | 107.2 | 96.4 | 91 | 109.1 | 88.2 | 99.7 |
| RPS6KA3 | 141.4 | 220.3 | 168.1 | 235 | 198.5 | 220.9 | 188.5 | 192.5 |
| RPS6KA3 | 170.8 | 211.2 | 111.5 | 95.8 | 97.6 | 109.6 | 134.7 | 180.8 |
| RPS6KA3 | 291.2 | 428.8 | 128.1 | 140.1 | 118 | 133.8 | 231.7 | 286 |
| RPS6KA4 | 381.4 | 426 | 314.3 | 311 | 235.9 | 265.4 | 277.1 | 725.2 |
| RPS6KA5 | 165.5 | 190.4 | 147.8 | 195.1 | 192.9 | 256.1 | 165.7 | 296.2 |
| RPS6KA5 | 80.6 | 82.3 | 101.6 | 95.5 | 93.4 | 99.7 | 90.7 | 86.3 |
| RPS6KA6 | 109.7 | 144.8 | 114.7 | 101.4 | 104.8 | 112.6 | 104.3 | 133 |

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| RPS6KB1 | 843.8 | 1074.9 | 492.3 | 679.6 | 510.8 | 969.9 | 723.7 | 968.6 |
| RPS6KB2 | 3173.7 | 3940.6 | 1645.2 | 1259.1 | 1196.6 | 1167.6 | 2823.2 | 2330.3 |
| RPS6KC1 | 138.6 | 165 | 114.8 | 95.2 | 97.4 | 117.1 | 165.8 | 335.9 |
| RPS6KL1 | 128.2 | 136.9 | 141.1 | 107.7 | 103.6 | 117.8 | 109.6 | 130.4 |
| RPS7 | 2189.6 | 2799.7 | 1578.2 | 1186.2 | 837.4 | 1709.8 | 1538.4 | 1672.3 |
| RPS9 | 10622.4 | 13587.7 | 7613.2 | 5985.4 | 5274.6 | 7437.1 | 10595.3 | 10885 |
| RPS9 | 13205.8 | 16659.8 | 10191.8 | 8377.1 | 7506.4 | 10521.2 | 13133.9 | 13801.4 |
| RPSA | 33204.2 | 33357.8 | 43080.3 | 23205.6 | 20513.5 | 27492.9 | 33473.8 | 33377 |
| RPSA | 194 | 216 | 122.8 | 104.2 | 113.2 | 117.5 | 194.9 | 270.7 |
| RPUSD1 | 768.5 | 871.1 | 712.1 | 359.4 | 245.8 | 371.7 | 701.2 | 1210.1 |
| RPUSD2 | 1902.1 | 2683.4 | 1474.3 | 1208.5 | 857.1 | 1104.1 | 1446.2 | 1547.8 |
| RPUSD3 | 2078.3 | 2211.7 | 1289.7 | 738.9 | 626.3 | 690.7 | 1598.2 | 1808.4 |
| RPUSD4 | 3505.3 | 4009.6 | 2370.2 | 1293.4 | 903.5 | 1522.9 | 2659.2 | 3182.5 |
| RQCD1 | 1338.8 | 1817.1 | 1122.4 | 987.7 | 760 | 977.1 | 1130.7 | 1582.6 |
| RRAD | 87.6 | 90.2 | 95.3 | 87.1 | 80.8 | 73.6 | 89.1 | 93.1 |
| RRAGA | 2781.5 | 3710.2 | 2481.4 | 1620.5 | 1323.1 | 2203.2 | 2207.1 | 3403.8 |
| RRAGB | 238.9 | 340.7 | 127.8 | 108.8 | 104.8 | 122.9 | 199.1 | 281.2 |
| RRAGB | 77.9 | 95.6 | 88.4 | 87.9 | 87 | 84.9 | 83.8 | 94.6 |
| RRAGB | 365.5 | 460.6 | 263.1 | 296.4 | 282.1 | 426.6 | 322.4 | 410.9 |
| RRAGC | 409.5 | 573.3 | 269.4 | 413.4 | 396.3 | 469.2 | 466.6 | 598.5 |
| RRAGD | 834.1 | 1189.6 | 512.4 | 837.9 | 796.9 | 878.4 | 774.8 | 1144.1 |
| RRAS | 508.2 | 654.8 | 357.1 | 251.5 | 241.6 | 287.7 | 549.5 | 567.7 |
| RRAS2 | 401.8 | 506.5 | 218.8 | 247.8 | 182.3 | 281.7 | 351.6 | 537.2 |
| RRBP1 | 155.4 | 143.3 | 117 | 129.6 | 120.2 | 143.7 | 133.2 | 139.1 |
| RRBP1 | 603.5 | 659.4 | 496.4 | 616.4 | 600.3 | 750.4 | 507.6 | 796.9 |
| RRBP1 | 159.2 | 157.9 | 139.8 | 161.7 | 159.6 | 153.7 | 123.4 | 165.5 |
| RREB1 | 86.1 | 100.1 | 108.5 | 92.2 | 93.9 | 88.6 | 82.1 | 91 |
| RREB1 | 165.8 | 262.1 | 146.6 | 166.7 | 144.4 | 195.9 | 149.2 | 165.2 |
| RREB1 | 113 | 117.5 | 111.3 | 95.4 | 106.4 | 98.8 | 102.5 | 98.9 |
| RREB1 | 94.7 | 116.5 | 121.7 | 106.4 | 110.2 | 123.5 | 92.1 | 100.7 |
| RRH | 81.9 | 90.2 | 90.3 | 89.2 | 77.7 | 81.8 | 79.3 | 90.5 |
| RRM1 | 7206.2 | 8545.1 | 7369.8 | 6607.1 | 4933.9 | 6751.3 | 5887 | 10864.1 |
| RRM2 | 793.1 | 1254.7 | 506.8 | 488.4 | 429.7 | 607.9 | 571.4 | 847.2 |
| RRM2B | 150.8 | 179.8 | 122.1 | 125.9 | 112.5 | 131.6 | 190.6 | 293.8 |
| RRN3 | 274.8 | 339.8 | 104.7 | 131.5 | 96.9 | 129.2 | 217.5 | 339.8 |
| RRP22 | 243.8 | 256.4 | 151.1 | 118.2 | 108 | 118.9 | 215.9 | 180.4 |
| RRP22 | 117.6 | 122.4 | 93.1 | 100.4 | 82.9 | 100.5 | 117.2 | 132.8 |
| RRS1 | 1814.4 | 2619.8 | 1270.9 | 729.7 | 500.1 | 954.1 | 1276 | 1890.3 |
| RS1 | 95.6 | 98.8 | 93.2 | 91.6 | 80.8 | 84.1 | 86.5 | 101.8 |
| RSAD1 | 238.2 | 258.7 | 129.5 | 117.2 | 115.9 | 133.7 | 166.6 | 238.3 |
| RSAD2 | 145.4 | 190 | 109.3 | 112.2 | 94.9 | 118 | 138.9 | 158.1 |
| RSAFD1 | 405.6 | 548.6 | 267 | 317 | 288.3 | 439.7 | 355.3 | 449.7 |
| RSBN1 | 1295.6 | 1765.7 | 974.5 | 779.5 | 636.8 | 1071.1 | 1141.5 | 1529.5 |
| RSBN1L | 560.8 | 689.5 | 250.6 | 245.3 | 276.3 | 395.5 | 479.9 | 763.2 |
| RSC1A1 | 147.7 | 184.1 | 136.5 | 119.9 | 111.3 | 148.1 | 135.2 | 179.3 |
| RSHL1 | 82.8 | 104.3 | 93.3 | 97.8 | 81.3 | 98.8 | 85.4 | 98.1 |
| RSHL2 | 355.2 | 471.4 | 233.3 | 356.6 | 270.4 | 391.9 | 349.2 | 413.7 |
| RSHL3 | 77.5 | 82.9 | 114.2 | 102.3 | 99.3 | 105.1 | 75.4 | 79.8 |
| RSL1D1 | 4001.8 | 5840.2 | 2828 | 2274.4 | 2107.8 | 4094.9 | 3112.8 | 4372.3 |
| RSN | 81.9 | 97.8 | 85.1 | 93.1 | 86.4 | 84.5 | 88.2 | 116.6 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| RSNL2 | 116.6 | 141.4 | 127.4 | 132.5 | 124.9 | 141.8 | 120.9 | 153.5 |
| RSPO1 | 99 | 135.6 | 79.8 | 75.1 | 72.4 | 79.2 | 111.6 | 107.9 |
| RSPO2 | 126.3 | 135.3 | 164.7 | 143.5 | 152.5 | 158.5 | 110.3 | 137.5 |
| RSPO3 | 130.4 | 158.3 | 122 | 111.6 | 99.2 | 124 | 134.6 | 166.9 |
| RSPO4 | 101.2 | 108.8 | 96.6 | 90.9 | 81.6 | 90.6 | 91.4 | 109.5 |
| RSPO4 | 89.3 | 96.8 | 106.4 | 94.9 | 90.6 | 90.7 | 91.9 | 87.6 |
| RSPRY1 | 1692.2 | 2164.5 | 1315.4 | 1287.7 | 1076.5 | 781 | 1459.9 | 1774.4 |
| RSRC1 | 1654.3 | 2234.8 | 1060.5 | 1053.9 | 849.3 | 1398.3 | 1417.4 | 2149.1 |
| RSRC2 | 1432.2 | 1754.1 | 350.6 | 457.3 | 275.2 | 539.4 | 1230.7 | 1920.4 |
| RSU1 | 857.6 | 1027.1 | 405.7 | 829.1 | 637.1 | 982.6 | 677.3 | 1071.6 |
| RSU1 | 142.1 | 149.5 | 109 | 113.7 | 99.8 | 148.4 | 119.9 | 155 |
| RTBDN | 88.3 | 92.7 | 90.3 | 81.8 | 73.7 | 84.1 | 95.7 | 92.8 |
| RTBDN | 105.7 | 118.7 | 101.7 | 83 | 88.2 | 89.1 | 96.9 | 102.6 |
| RTBDN | 109.5 | 117.5 | 100.1 | 92.1 | 86.7 | 97.8 | 100.7 | 106.3 |
| RTCD1 | 2540.3 | 3370.3 | 587.8 | 422.2 | 402.5 | 510 | 2357.7 | 3591.9 |
| RTDR1 | 72 | 84.5 | 90.8 | 83.5 | 83.3 | 79.9 | 82.9 | 79.4 |
| RTTEL1 | 183.4 | 193 | 108.7 | 94.6 | 89.1 | 93.9 | 152.4 | 181.6 |
| RTTEL1 | 97.2 | 118.7 | 92.2 | 92 | 84.7 | 82.4 | 101.1 | 117.6 |
| RTF1 | 141.4 | 146.9 | 165.5 | 159.9 | 156.7 | 193.4 | 130.5 | 160.3 |
| RTKN | 103.2 | 120.7 | 115.6 | 107.3 | 108.3 | 111.9 | 104.3 | 108.3 |
| RTKN | 502.3 | 634.9 | 266.5 | 221 | 212.9 | 233.2 | 391.6 | 278.1 |
| RTKN | 129.5 | 155.1 | 103.5 | 96.7 | 79.9 | 86.2 | 125.8 | 144.8 |
| RTKN | 86.4 | 105 | 92.6 | 86.1 | 85.2 | 86.1 | 90.1 | 106.8 |
| RTN1 | 85.2 | 92 | 90.2 | 84.3 | 82.7 | 85.6 | 92.6 | 95.9 |
| RTN1 | 102.3 | 119.1 | 100.7 | 94.4 | 82 | 98.1 | 101.7 | 111.5 |
| RTN1 | 170 | 209.5 | 198.3 | 97.8 | 93.4 | 110.8 | 147.2 | 225.7 |
| RTN2 | 177.4 | 243.1 | 160.6 | 202.9 | 189.4 | 217.3 | 188.1 | 325.5 |
| RTN2 | 552.9 | 678.2 | 349.8 | 360.4 | 310.2 | 377.7 | 559.1 | 567.1 |
| RTN2 | 119.8 | 181.4 | 87.6 | 84 | 87.6 | 105.8 | 116.9 | 169.2 |
| RTN3 | 678.9 | 933.5 | 281.9 | 293.1 | 267 | 424.6 | 624.1 | 1173.9 |
| RTN3 | 102.7 | 122.6 | 108.4 | 105.6 | 105 | 101.5 | 97.8 | 114 |
| RTN3 | 94.9 | 105.8 | 90 | 92.3 | 83.4 | 94.3 | 86.9 | 104.7 |
| RTN3 | 1635.6 | 2277.4 | 1302.6 | 1458.9 | 1224.1 | 1829.1 | 1356.9 | 1974.4 |
| RTN4 | 785.5 | 895.4 | 409.3 | 560.2 | 385.4 | 695.5 | 955.6 | 2268.4 |
| RTN4 | 87.9 | 82.9 | 90.1 | 81.1 | 77.9 | 81.7 | 88.5 | 87.6 |
| RTN4 | 3995.5 | 4627.3 | 3318 | 3989.9 | 2739.5 | 6035.6 | 4528.2 | 9338.9 |
| RTN4 | 102.4 | 111.5 | 101.8 | 94 | 92.3 | 104.2 | 92.2 | 100.1 |
| RTN4IP1 | 726.9 | 1043.1 | 342.4 | 320 | 238.2 | 297.5 | 579.2 | 846.7 |
| RTN4R | 148.9 | 197.3 | 104.3 | 105.7 | 97.6 | 97.1 | 142.3 | 139.9 |
| RTN4RL1 | 126.7 | 147.8 | 112.9 | 87.7 | 89.4 | 95.2 | 120 | 135 |
| RTN4RL2 | 88.8 | 97.3 | 87 | 89.9 | 90.8 | 91.8 | 92.3 | 97.7 |
| RTP1 | 104.4 | 114.4 | 104.8 | 91.4 | 100.3 | 89.7 | 106.6 | 111.3 |
| RTP2 | 127.7 | 141.4 | 101.6 | 92.5 | 94.6 | 94.7 | 135.8 | 150.3 |
| RTP3 | 94.1 | 88.4 | 88.3 | 85.1 | 82.3 | 86.6 | 97.6 | 98.3 |
| RTP4 | 230.3 | 294.2 | 171.9 | 150.5 | 147.4 | 196.4 | 203.3 | 278.4 |
| RUFY1 | 106.5 | 119.2 | 95.7 | 103.9 | 93.2 | 99.4 | 99.7 | 107.6 |
| RUFY1 | 422.4 | 556.5 | 304.3 | 308.4 | 314.9 | 476.7 | 335.2 | 609.1 |
| RUFY2 | 121.7 | 136.9 | 103.3 | 97.3 | 89.3 | 92.9 | 109.4 | 146.1 |
| RUFY2 | 141.1 | 172.4 | 123 | 107.6 | 108 | 106.6 | 134.1 | 150.2 |
| RUFY2 | 134.5 | 150.6 | 98.7 | 97.1 | 83.6 | 92.4 | 146.7 | 153.1 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| RUFY3 | 131.5 | 149.8 | 90.1 | 91.7 | 91.3 | 92.8 | 126.6 | 150.3 |
| RUFY3 | 100.7 | 142.2 | 104.2 | 103.8 | 104.7 | 138.6 | 111.6 | 167.8 |
| RUFY3 | 115.4 | 135.6 | 103.9 | 95.9 | 100.5 | 92.3 | 128.8 | 118.3 |
| RUNDC1 | 562.8 | 725.6 | 460.1 | 642.4 | 507.5 | 954.4 | 440.7 | 744.1 |
| RUNDC2A | 111 | 116.1 | 105.4 | 98.2 | 98.8 | 102.7 | 113.6 | 119.1 |
| RUNX1 | 136.2 | 171.3 | 95.6 | 94.9 | 86.9 | 95.8 | 134.8 | 147.9 |
| RUNX1 | 96.6 | 98.9 | 103.3 | 111.2 | 102.6 | 118.2 | 98.9 | 99.2 |
| RUNX1 | 599.1 | 862.8 | 480.2 | 719.6 | 608.6 | 781 | 798 | 932.3 |
| RUNX1T1 | 81.4 | 95.5 | 85.7 | 85.2 | 76.1 | 84.5 | 89.9 | 92.1 |
| RUNX1T1 | 105.1 | 124.1 | 86.7 | 85.7 | 79.5 | 88 | 100.9 | 117.5 |
| RUNX1T1 | 89.4 | 89.9 | 88.2 | 84.2 | 85.1 | 87.2 | 83.7 | 96.4 |
| RUNX1T1 | 96.1 | 104 | 110.9 | 96.8 | 94.1 | 100.9 | 93.8 | 96 |
| RUNX1T1 | 99.2 | 108.3 | 86.8 | 83 | 80.4 | 89.6 | 109.1 | 116.2 |
| RUNX2 | 130.1 | 148.4 | 84 | 87.4 | 89.3 | 94.9 | 122 | 141.8 |
| RUNX2 | 663.2 | 878.5 | 397.8 | 444.1 | 355.1 | 681.2 | 339.4 | 494.8 |
| RUNX2 | 88 | 116.5 | 104 | 95.1 | 78.3 | 92 | 90.6 | 89.2 |
| RUNX3 | 1958.4 | 2583.5 | 1219.6 | 1030.7 | 803.5 | 868.5 | 1791.2 | 2114.6 |
| RUNX3 | 115.7 | 117.3 | 104.4 | 107.7 | 102.6 | 95.9 | 112.7 | 122.5 |
| RUSC1 | 2811.2 | 3643.7 | 2015.6 | 1393.4 | 1187.6 | 1267.4 | 2448.8 | 2673.8 |
| RUSC2 | 133.6 | 145.3 | 110.3 | 116.6 | 89.2 | 108 | 131.7 | 159.8 |
| RUTBC1 | 860.5 | 1012 | 900 | 1070.8 | 1058.6 | 1206.2 | 583.8 | 645.4 |
| RUTBC2 | 88.2 | 89 | 98.8 | 90.4 | 90.1 | 95.6 | 85.5 | 104.2 |
| RUTBC3 | 156.5 | 184 | 146.1 | 135.5 | 133.6 | 168.9 | 147.5 | 194.6 |
| RUVBL1 | 1050.8 | 1471.5 | 491 | 303.1 | 251.5 | 345.3 | 650.2 | 779.1 |
| RUVBL2 | 2089.6 | 2832.7 | 1340.1 | 561 | 471.3 | 686.3 | 1878.5 | 2188.7 |
| RWDD1 | 192 | 241.7 | 162.8 | 153.2 | 133.4 | 199.8 | 143.8 | 182.8 |
| RWDD1 | 6552.3 | 7696.5 | 5303.5 | 5895.1 | 4554.8 | 6639.4 | 5628.9 | 9096.6 |
| RWDD2 | 365.3 | 493.8 | 305.2 | 322.4 | 258.4 | 384.8 | 296.6 | 393.3 |
| RWDD4A | 806.6 | 1075.5 | 464.8 | 416.2 | 356.9 | 520 | 666.2 | 965.6 |
| RXRA | 2060.9 | 2404.5 | 2829.3 | 2695.2 | 2024.6 | 3074.6 | 2788.7 | 5384.2 |
| RXRB | 782.1 | 920.2 | 289.2 | 316.7 | 330.3 | 275.7 | 521.5 | 411.1 |
| RXRG | 83.6 | 90.5 | 93.6 | 89.1 | 75.2 | 77.6 | 79.9 | 93.1 |
| RXRG | 76.9 | 85.3 | 105.7 | 95.3 | 93.6 | 93.8 | 77.2 | 78.5 |
| RXRG | 102.9 | 132.2 | 92.4 | 90.3 | 85.5 | 92.1 | 110.1 | 113.7 |
| RY1 | 2005.8 | 2436.7 | 832 | 897.3 | 667.1 | 931.6 | 1803.6 | 2545.3 |
| RYBP | 869.6 | 1145 | 411.9 | 783.1 | 559.3 | 569.2 | 790.6 | 1219.2 |
| RYK | 319.2 | 395.8 | 207.2 | 205.9 | 190.6 | 289.6 | 231.6 | 291.6 |
| RYK | 447.5 | 604.3 | 331.6 | 328 | 278.8 | 494.3 | 373.9 | 464.6 |
| RYK | 1318.6 | 1733.4 | 710.6 | 896 | 695 | 1121.6 | 1122.8 | 1522.1 |
| RYR1 | 146.2 | 218.8 | 115.6 | 116.6 | 111.8 | 130.7 | 145.4 | 157 |
| RYR1 | 220.9 | 331.2 | 217 | 241.2 | 210.7 | 305.5 | 210 | 326.2 |
| RYR2 | 112.3 | 123.4 | 108.3 | 92.9 | 80.1 | 99.7 | 103.7 | 125.2 |
| RYR3 | 76.9 | 88.1 | 114.5 | 104.5 | 95.8 | 105.9 | 87.7 | 87.3 |
| S100A1 | 94.5 | 127.8 | 97.2 | 104.7 | 100.6 | 99.7 | 102.9 | 128.5 |
| S100A10 | 4400 | 5366.1 | 3666 | 3125.9 | 2008.1 | 2604.1 | 4546.6 | 6960.7 |
| S100A11 | 1591.9 | 1993 | 744.7 | 608.9 | 436.7 | 624.9 | 1370.1 | 2027 |
| S100A12 | 103.1 | 116.6 | 106.5 | 142.8 | 121.2 | 182.2 | 94.4 | 140.1 |
| S100A13 | 89.1 | 99.8 | 110.9 | 93.1 | 89.6 | 109.4 | 95.4 | 104.3 |
| S100A13 | 91.8 | 99 | 87.6 | 99.3 | 103.9 | 87.1 | 92.7 | 102.3 |
| S100A13 | 233.4 | 264.5 | 154.8 | 125.1 | 131.4 | 177.4 | 194.1 | 302.3 |

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|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| S100A13 | 225.8 | 276.3 | 124.5 | 134.9 | 132.5 | 156.8 | 217.9 | 232.4 |
| S100A13 | 120.8 | 145 | 121.1 | 98.2 | 103.7 | 110 | 117.3 | 138.9 |
| S100A13 | 185.4 | 237.4 | 155.9 | 155.5 | 163.4 | 143.9 | 197.2 | 216.6 |
| S100A14 | 123.7 | 147.1 | 92.8 | 82.9 | 83.4 | 84.5 | 113.2 | 130.8 |
| S100A16 | 101 | 114.6 | 88.8 | 98.1 | 83.6 | 87.6 | 125 | 120.6 |
| S100A2 | 187.8 | 235.8 | 109.7 | 124.6 | 98 | 114.3 | 184.6 | 226.5 |
| S100A3 | 81.7 | 101.3 | 96.3 | 86.1 | 83.4 | 87.2 | 93.6 | 96.4 |
| S100A4 | 17843.5 | 21563 | 13676 | 9960 | 9621.5 | 11364.2 | 14589.1 | 16305.1 |
| S100A4 | 20282.2 | 23844.9 | 19905.8 | 16638.8 | 15105.3 | 15487.4 | 16341.2 | 18131.7 |
| S100A5 | 132.3 | 180.8 | 96.3 | 86.2 | 95.3 | 83.8 | 142.7 | 152.2 |
| S100A6 | 4171.5 | 4793.9 | 2236.5 | 2885.9 | 2523.3 | 2328.4 | 4591.6 | 3867.1 |
| S100A7 | 74.3 | 83.1 | 77.8 | 79 | 75.9 | 79.4 | 85.1 | 85.5 |
| S100A7L1 | 81 | 80.3 | 85 | 94.7 | 91.7 | 82.7 | 74.6 | 82.5 |
| S100A7L2 | 116.9 | 127.9 | 89 | 107 | 90.7 | 94.7 | 111.9 | 105.9 |
| S100A8 | 1632 | 1711.3 | 635.6 | 2845.8 | 2457.1 | 3782.8 | 1597.2 | 1653.9 |
| S100A9 | 2503.4 | 2239.2 | 1514.6 | 3481.5 | 2331.8 | 4018.4 | 2401.2 | 3516.1 |
| S100B | 74.6 | 86.4 | 84.3 | 77.5 | 77.9 | 76.1 | 81 | 89.4 |
| S100G | 79 | 90.2 | 89.6 | 90.8 | 73 | 85.2 | 81 | 90.5 |
| S100P | 325.2 | 358 | 255.8 | 186.6 | 188.2 | 207.5 | 458.5 | 619.6 |
| S100PBP | 166 | 224.7 | 107.4 | 118.6 | 107 | 103.7 | 158.6 | 210.2 |
| S100PBP | 276.4 | 402.9 | 143.4 | 142.8 | 125.1 | 165.8 | 247.6 | 348.7 |
| S100Z | 74.1 | 82.4 | 90.7 | 73.5 | 77 | 79.9 | 83.8 | 81.1 |
| SAA1 | 111.2 | 113 | 89.9 | 86.8 | 72.6 | 98.4 | 124.7 | 130.1 |
| SAA1 | 112.6 | 138 | 93.4 | 95.2 | 82.5 | 89 | 110.4 | 134.1 |
| SAA1 | 85.5 | 104.1 | 100.4 | 93.4 | 98.1 | 106.2 | 89.4 | 88.6 |
| SAA2 | 108.2 | 119.5 | 98.3 | 93.1 | 94.5 | 91.4 | 109.5 | 118 |
| SAA4 | 104.2 | 116.1 | 86 | 77.6 | 79.6 | 88.7 | 101.9 | 135.4 |
| SAAL1 | 2135.1 | 2400.4 | 1081.3 | 861.6 | 665 | 987.6 | 1707.3 | 2404.6 |
| SAC | 86.3 | 115.8 | 88.7 | 82 | 86.4 | 86.8 | 95.4 | 108 |
| SACM1L | 1013.9 | 1112.1 | 391.8 | 533.2 | 298.5 | 648.9 | 792.5 | 1725.4 |
| SACS | 246.9 | 344.6 | 151.3 | 195.4 | 155.2 | 237.8 | 237.8 | 285.4 |
| SAE1 | 9560.4 | 11412.6 | 7876.5 | 5784.7 | 4482.4 | 6233.2 | 8132.3 | 9942.3 |
| SAFB | 1913.2 | 2644.8 | 1153.1 | 997.3 | 994.8 | 1659.6 | 1480.3 | 1239 |
| SAFB2 | 767.1 | 870.3 | 680.4 | 619.1 | 485.3 | 714.5 | 604.6 | 1304.5 |
| SAG | 93.6 | 95.9 | 95.1 | 89.5 | 86.7 | 95.2 | 86.1 | 94.1 |
| SAGE1 | 80.1 | 105.5 | 96 | 83.3 | 73.1 | 83.1 | 76.6 | 82.2 |
| SALF | 83.1 | 95.5 | 91 | 85.4 | 75.8 | 78.8 | 90.9 | 98.6 |
| SALL1 | 82.7 | 91.6 | 90 | 87.7 | 83.1 | 104 | 84.1 | 86.7 |
| SALL2 | 99.6 | 108.8 | 102.7 | 95.2 | 90.8 | 101.5 | 92.8 | 107.6 |
| SALL3 | 234 | 243.1 | 130.3 | 134.2 | 115.9 | 134.7 | 241.4 | 247.9 |
| SALL4 | 102 | 128.3 | 118.5 | 135.1 | 145.4 | 145.4 | 94.1 | 109.5 |
| SAMD1 | 168.9 | 196.9 | 170 | 135 | 115.7 | 142.7 | 141.8 | 248.9 |
| SAMD10 | 112.9 | 121.7 | 109.2 | 93.2 | 85.8 | 99 | 99 | 112.5 |
| SAMD11 | 114 | 123.3 | 118.6 | 118.2 | 102.9 | 122.9 | 111.4 | 117.6 |
| SAMD12 | 87.2 | 88.1 | 104.4 | 92.4 | 85.9 | 85.9 | 89.8 | 92 |
| SAMD13 | 158.5 | 201.7 | 134.7 | 110.5 | 100.4 | 118.6 | 130.7 | 195.9 |
| SAMD14 | 111.4 | 129 | 108.8 | 103.1 | 96.8 | 102.2 | 115.9 | 108.3 |
| SAMD3 | 73.8 | 85.4 | 98.9 | 88 | 88.8 | 84.6 | 80.1 | 74.6 |
| SAMD3 | 130.7 | 155.6 | 102 | 101.9 | 92 | 99.9 | 131.7 | 148.7 |
| SAMD3 | 92.9 | 93.6 | 92.1 | 77.3 | 77.7 | 80.1 | 82.3 | 87.7 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| SAMD4A | 90.6 | 88.2 | 95.7 | 93 | 86.1 | 71.8 | 89.6 | 107.3 |
| SAMD4B | 116.5 | 162.3 | 150.1 | 165.6 | 129.6 | 188.5 | 126.9 | 208.7 |
| SAMD7 | 177.8 | 189.8 | 105.8 | 91.2 | 88.8 | 97.8 | 166.4 | 172.7 |
| SAMD8 | 101.3 | 117.2 | 100.7 | 93.2 | 85.5 | 103.6 | 111.9 | 106.3 |
| SAMD9 | 553.5 | 736.7 | 299 | 354.5 | 321.8 | 584.7 | 427.5 | 759.9 |
| SAMD9L | 113.7 | 129.4 | 117.4 | 154.4 | 164.3 | 235.5 | 114.7 | 131 |
| SAMHD1 | 254.9 | 359.6 | 119.4 | 166.8 | 155.7 | 149.7 | 213.1 | 252.9 |
| SAMM50 | 3133.1 | 4075.9 | 2797.6 | 2656.1 | 1832.7 | 2884.8 | 2712.1 | 2834 |
| SAMSN1 | 75.9 | 101.4 | 86.8 | 96.3 | 96.2 | 96.8 | 90.2 | 96 |
| SAP130 | 528.8 | 709.1 | 491.6 | 522.3 | 466.9 | 570.9 | 496 | 721.6 |
| SAP18 | 387.5 | 505.1 | 277.3 | 329.3 | 258.4 | 354.5 | 381.8 | 585.2 |
| SAP30 | 1446.5 | 1538.9 | 706.2 | 485.8 | 355.7 | 576.6 | 1518.7 | 2865.7 |
| SAP30BP | 148.5 | 170.5 | 155.4 | 143.6 | 129.4 | 151 | 128.9 | 187.2 |
| SAPS1 | 353.6 | 401.7 | 386.7 | 262 | 239.4 | 318.4 | 270.3 | 453.5 |
| SAPS2 | 89.6 | 104.1 | 91.8 | 89.8 | 88.2 | 96.7 | 92.5 | 118.4 |
| SAPS3 | 452.1 | 717.5 | 483 | 520.9 | 461.1 | 697 | 460.3 | 613.7 |
| SAR1A | 809.7 | 936.2 | 245.6 | 164.8 | 138.9 | 174.6 | 685.4 | 1146.1 |
| SAR1B | 133.3 | 155.7 | 117.7 | 95.6 | 93.8 | 98.1 | 132.3 | 130.2 |
| SAR1B | 1843.7 | 2057.7 | 974.9 | 863.9 | 534.5 | 1032.9 | 1772.8 | 3171.9 |
| SAR1B | 753.6 | 902.2 | 304.5 | 248.5 | 165.2 | 319.8 | 630.2 | 939.4 |
| SARDH | 74.4 | 76.8 | 91.5 | 84.2 | 83.8 | 87.3 | 75 | 87.7 |
| SARM1 | 78 | 89.7 | 80.7 | 81.9 | 75 | 87.5 | 77.3 | 79.6 |
| SARS | 1022.8 | 1472.1 | 223.5 | 179.3 | 157.4 | 202.6 | 1113.1 | 1412.4 |
| SARS2 | 639.3 | 702.4 | 364.4 | 250.2 | 230.6 | 277 | 526.3 | 657.6 |
| SART1 | 106.1 | 116.5 | 90.8 | 89.1 | 101.5 | 88.4 | 110.9 | 119.8 |
| SART2 | 90.5 | 94.3 | 90.3 | 83.6 | 81.5 | 86.7 | 86.7 | 96.2 |
| SART2 | 86.7 | 99.9 | 95.2 | 86 | 93 | 84.4 | 88.1 | 91.1 |
| SART2 | 184.7 | 211.5 | 165.2 | 202.7 | 202.5 | 240.4 | 189.2 | 302.8 |
| SART3 | 136.8 | 186.8 | 129.9 | 122.6 | 132.7 | 144.9 | 128.3 | 205 |
| SAS10 | 79.9 | 93.7 | 90.1 | 76.8 | 83 | 82.7 | 87.9 | 90.8 |
| SASH1 | 1019.8 | 1353.8 | 436.5 | 994.2 | 783.1 | 1320.5 | 974.8 | 1391.6 |
| SASS6 | 556.4 | 616.2 | 300.4 | 187.4 | 200.5 | 367.7 | 439.6 | 860.7 |
| SAS-ZFAT | 80.2 | 97.3 | 84.4 | 89 | 80.7 | 77.9 | 84.4 | 95.2 |
| SAT | 809.9 | 983.4 | 389.6 | 489 | 489.6 | 711.3 | 999.6 | 1427.2 |
| SAT2 | 235 | 279.9 | 130.7 | 131.2 | 128.6 | 154.7 | 265.5 | 414.1 |
| SATB1 | 346.8 | 436.4 | 169.8 | 178.5 | 136.7 | 260.4 | 249.1 | 307.8 |
| SATB2 | 1466.4 | 2007.6 | 1166.9 | 1754.6 | 1324.7 | 2282.4 | 1359.7 | 2147.7 |
| SATL1 | 100.3 | 120.6 | 101.5 | 92.9 | 90.4 | 89.4 | 88.3 | 99.7 |
| SAV1 | 245.1 | 307.3 | 219.6 | 181 | 167.5 | 220.5 | 232.5 | 483.4 |
| SBDS | 670.2 | 946.9 | 327.7 | 298.4 | 266 | 467.6 | 644.3 | 1109.8 |
| SBDSP | 442.8 | 628.1 | 198.7 | 191.1 | 161.3 | 229.1 | 339.1 | 504.8 |
| SBEM | 122 | 139.2 | 99.4 | 91.7 | 83.1 | 94.4 | 117 | 129.1 |
| SBF1 | 496.1 | 571.6 | 560.7 | 576.2 | 466.1 | 657.2 | 389.6 | 447.9 |
| SBF2 | 96.9 | 117.9 | 103 | 101.3 | 100.6 | 118 | 98.8 | 131.2 |
| SBK1 | 80.3 | 113.2 | 79.2 | 75 | 76.4 | 73.6 | 89.2 | 92.4 |
| SBK1 | 167.8 | 193.7 | 130.9 | 107 | 100.1 | 106.7 | 155.4 | 181.5 |
| SBNO1 | 188.5 | 257.1 | 102 | 101.2 | 91.4 | 118.6 | 166.4 | 235.3 |
| SBP1 | 156.7 | 140.4 | 100.9 | 111.3 | 93.7 | 101.7 | 132.5 | 142.4 |
| SBSN | 90.8 | 97.9 | 106 | 89.3 | 82.9 | 86.4 | 97.2 | 98.8 |
| SC4MOL | 441.2 | 658.9 | 194.6 | 233.8 | 170.3 | 221.4 | 317.1 | 384 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| SC4MOL | 1106.2 | 1426.4 | 466.2 | 566.8 | 597.8 | 678.3 | 842.5 | 1152.8 |
| SC4MOL | 90.9 | 109.6 | 106.3 | 86.9 | 86.8 | 85.4 | 104.4 | 101.2 |
| SC5DL | 682.1 | 851.6 | 453.5 | 443.7 | 417.3 | 496.1 | 705.6 | 831.9 |
| SC65 | 301.4 | 353.8 | 213.2 | 206.6 | 169.3 | 190.3 | 266.9 | 464.7 |
| SCAMP1 | 1480.7 | 1960.3 | 1059.9 | 1437.9 | 1021.3 | 1618.2 | 1131.1 | 1740.5 |
| SCAMP1 | 353.8 | 408.2 | 123.5 | 146.3 | 124.2 | 125.1 | 215 | 350.7 |
| SCAMP2 | 306.7 | 429 | 268.6 | 262.5 | 201.3 | 231.5 | 289.4 | 352.8 |
| SCAMP3 | 214.9 | 279.7 | 151.4 | 124.6 | 106.8 | 133.6 | 207.5 | 300.9 |
| SCAMP3 | 2857.9 | 3457.4 | 2071.9 | 1125.4 | 848.8 | 1058.8 | 2717.1 | 3253.3 |
| SCAMP4 | 138.6 | 154.9 | 125.6 | 127.2 | 112.2 | 128.7 | 133.3 | 175.6 |
| SCAMP5 | 195.9 | 257.5 | 282.3 | 341.3 | 317 | 381.6 | 174.3 | 235.9 |
| SCAND1 | 966.1 | 1290.2 | 611.1 | 459.3 | 412.8 | 465.8 | 760.6 | 936.3 |
| SCAND1 | 376.4 | 467.3 | 214.8 | 164.4 | 144.3 | 121.2 | 335.6 | 408.8 |
| SCAND1 | 1539.4 | 1962.5 | 1088.3 | 774 | 680.6 | 846.7 | 1209.6 | 1459.3 |
| SCAP | 1288.3 | 1547.9 | 671.2 | 711.6 | 600.3 | 740.9 | 1050.3 | 924.7 |
| SCAP1 | 110.2 | 125 | 86.3 | 80.9 | 74.7 | 82.2 | 105.2 | 118.3 |
| SCARA3 | 110.8 | 110.3 | 96.6 | 87.5 | 85.4 | 93.9 | 102.5 | 108.5 |
| SCARA3 | 83.1 | 78.1 | 89.3 | 90.6 | 81.5 | 90.7 | 80.9 | 85.7 |
| SCARA3 | 85.3 | 98.1 | 103.1 | 77.9 | 81.4 | 79.1 | 89.1 | 93.7 |
| SCARA5 | 84.5 | 106 | 88.7 | 87.5 | 93.4 | 94 | 83.4 | 90.3 |
| SCARB1 | 613.4 | 767.8 | 888.3 | 874 | 708.5 | 1124 | 480.6 | 894.5 |
| SCARB2 | 2012.9 | 2794.7 | 1478.5 | 2425.7 | 1669.4 | 2880 | 1923 | 2441.1 |
| SCARF1 | 102 | 105.5 | 99 | 83.8 | 88.9 | 89.1 | 96.5 | 106.5 |
| SCARF1 | 122.2 | 148.8 | 94.6 | 93.2 | 83.3 | 89.1 | 123.7 | 138.8 |
| SCARF2 | 98 | 112.3 | 105.7 | 94.1 | 75.7 | 79.5 | 96.4 | 119.7 |
| SCARF2 | 78.4 | 93.9 | 80 | 76.1 | 89.2 | 84.1 | 98.6 | 85.5 |
| SCARNA15 | 84.4 | 87.2 | 93.8 | 83.3 | 79.2 | 85.1 | 80.7 | 81.2 |
| SCC-112 | 655.6 | 1032.7 | 423.8 | 413.1 | 309.6 | 722.6 | 506.6 | 1043.9 |
| SCCPDH | 259.5 | 295.7 | 170.6 | 183.7 | 152.1 | 185 | 205.6 | 319.5 |
| SCD | 5534.6 | 6952.5 | 4422.4 | 6068.1 | 5337.9 | 5463.7 | 5247 | 7330.1 |
| SCD5 | 161.1 | 200.9 | 121.3 | 109 | 96.4 | 102.8 | 168.9 | 211.1 |
| SCD5 | 109 | 129.6 | 82.8 | 89.2 | 92.1 | 93.9 | 109.5 | 111.5 |
| SCD5 | 300.3 | 408.9 | 255.3 | 133 | 121.3 | 156.6 | 216.4 | 298 |
| SCDR10 | 155.6 | 189.9 | 118.8 | 106.6 | 99.1 | 125.1 | 128.2 | 161.7 |
| SCEL | 142.8 | 168.3 | 108.7 | 91.4 | 93.2 | 97.2 | 132 | 145.5 |
| SCFD1 | 1407.7 | 1783.7 | 866.1 | 915 | 678.3 | 1115.3 | 1158.6 | 2003.3 |
| SCFD1 | 87 | 85.5 | 88.7 | 88 | 83.1 | 93.1 | 87.2 | 84.4 |
| SCFD2 | 179.6 | 243.4 | 101.1 | 88.5 | 91 | 110 | 162.3 | 206.3 |
| SCG2 | 86.8 | 97.7 | 86.6 | 84.8 | 74.8 | 89.2 | 81.8 | 109.1 |
| SCG3 | 196.7 | 199.7 | 147.9 | 146 | 137.8 | 183.6 | 178.4 | 236.7 |
| SCG5 | 110.7 | 122.9 | 111.5 | 99.7 | 100.1 | 112.8 | 96.4 | 129.9 |
| SCGB1A1 | 99.1 | 115.3 | 93.3 | 88.8 | 83.2 | 94.2 | 99 | 113.3 |
| SCGB1C1 | 88.5 | 125 | 105.9 | 87.3 | 89.7 | 90.5 | 93.2 | 103.1 |
| SCGB1D1 | 159.1 | 209.8 | 132.8 | 108.5 | 91.7 | 108.3 | 155 | 164.4 |
| SCGB1D2 | 87.3 | 101.9 | 95.5 | 84.3 | 81.8 | 84.7 | 90.1 | 91.3 |
| SCGB1D4 | 76.6 | 98 | 94.6 | 81.2 | 79 | 80.8 | 93.1 | 101.6 |
| SCGB2A1 | 83.9 | 86 | 102.1 | 96.9 | 92.8 | 90.6 | 71.7 | 88.2 |
| SCGB2A2 | 85.1 | 102.6 | 95.9 | 87.7 | 86.2 | 95.9 | 93.6 | 101.2 |
| SCGB3A1 | 91.9 | 105.7 | 99.9 | 102.3 | 89.7 | 93.7 | 109.6 | 119 |
| SCGB3A2 | 96.5 | 109.6 | 84.9 | 78 | 79.8 | 82 | 94.7 | 115.3 |

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|--------|--------|--------|--------|-------|--------|--------|--------|--------|
| SCGN | 89.4 | 103.1 | 99.2 | 95.1 | 94.5 | 91.7 | 89.7 | 92.8 |
| SCHIP1 | 147 | 163.7 | 133.9 | 107.5 | 109.7 | 123.4 | 151.7 | 156.5 |
| SCIN | 146.2 | 170.5 | 153.1 | 123.1 | 113.5 | 156.1 | 132.7 | 147.7 |
| SCLY | 194 | 239.2 | 232.3 | 194.2 | 164.6 | 199.2 | 176.5 | 303.1 |
| SCMH1 | 148.4 | 180.6 | 127.8 | 212.8 | 215.1 | 116.8 | 117.9 | 140.7 |
| SCMH1 | 1900.1 | 2268.9 | 843.7 | 862 | 918.4 | 988.6 | 1432.3 | 1551.7 |
| SCMH1 | 344.5 | 384.3 | 138.6 | 229 | 216.1 | 110.8 | 249.2 | 355.5 |
| SCMH1 | 365.4 | 394.2 | 336.1 | 309.6 | 257.9 | 541.8 | 249.4 | 420.3 |
| SCML1 | 98.6 | 117.1 | 91.8 | 86 | 89.4 | 91.9 | 110.3 | 110.8 |
| SCML1 | 121.3 | 133.6 | 109.4 | 106.7 | 96.4 | 93.6 | 117.4 | 136.8 |
| SCML1 | 82.3 | 81.5 | 89.2 | 80.9 | 77.4 | 83.2 | 75.9 | 88 |
| SCML2 | 241.1 | 320.2 | 223.5 | 143.8 | 140.5 | 177.6 | 224.4 | 370.7 |
| SCML4 | 85.9 | 84.5 | 88.8 | 95.4 | 87.1 | 84.2 | 78.3 | 75.6 |
| SCN10A | 90.8 | 105 | 94 | 81.7 | 87.1 | 95.4 | 84.9 | 92 |
| SCN11A | 79.5 | 100.5 | 90.4 | 95.8 | 67.5 | 80.2 | 84.2 | 93.8 |
| SCN1A | 93.8 | 107.1 | 89.4 | 81.5 | 72.7 | 86.5 | 96.6 | 102.1 |
| SCN1B | 93.3 | 89.5 | 103.7 | 102.6 | 99 | 98.4 | 88.8 | 96.3 |
| SCN1B | 81.1 | 93.3 | 94.9 | 89.6 | 85 | 91.1 | 77.2 | 83.7 |
| SCN2A2 | 72.7 | 88.6 | 93.6 | 91.8 | 86.9 | 94.7 | 71.3 | 78.2 |
| SCN2A2 | 90.3 | 107 | 97.9 | 85.9 | 88 | 85.2 | 94.5 | 104.1 |
| SCN2A2 | 85.8 | 86.2 | 105.9 | 90.1 | 82.5 | 93.4 | 86.6 | 95.9 |
| SCN2B | 81.2 | 95 | 98.5 | 94.6 | 80.6 | 85.4 | 72.7 | 86.4 |
| SCN3A | 85.9 | 97.2 | 84 | 83.5 | 76.1 | 78.2 | 81.7 | 96.5 |
| SCN3A | 580.3 | 726.4 | 328.1 | 308.3 | 208.6 | 362.5 | 466.2 | 538.5 |
| SCN3A | 111 | 119.8 | 104 | 93 | 92 | 100.8 | 93.7 | 123 |
| SCN3B | 79.7 | 97.3 | 93 | 83.5 | 80 | 80.7 | 89 | 86.9 |
| SCN3B | 92.2 | 101.9 | 96.3 | 86.4 | 90.9 | 88.2 | 86.3 | 99.2 |
| SCN4A | 88.7 | 102 | 105.5 | 95 | 92.2 | 88.6 | 86.4 | 106.5 |
| SCN4B | 129.4 | 154.7 | 95.2 | 88.2 | 84.9 | 90.5 | 144 | 150.4 |
| SCN5A | 78.1 | 83.2 | 89.4 | 92.2 | 96.4 | 86.5 | 78.4 | 81.6 |
| SCN5A | 92.1 | 98 | 81.2 | 78.7 | 79 | 85.3 | 83.4 | 100.2 |
| SCN7A | 116.6 | 122.2 | 109.9 | 99.1 | 101.4 | 96.9 | 110.6 | 113.7 |
| SCN8A | 75.5 | 83 | 93.3 | 88.8 | 88.4 | 84.2 | 78.1 | 89.3 |
| SCN9A | 96.9 | 96.7 | 109.5 | 97.6 | 98.8 | 97.6 | 99.3 | 103.6 |
| SCNM1 | 1380.1 | 1821.9 | 801.9 | 526.6 | 467.4 | 568.5 | 1238.1 | 1519 |
| SCNM1 | 2301.7 | 2874.1 | 1478.7 | 959.6 | 834.8 | 1108.6 | 2178.2 | 1961.8 |
| SCNN1A | 96.9 | 103.4 | 101.3 | 94.5 | 94.1 | 100.1 | 89.3 | 94.5 |
| SCNN1B | 119.3 | 128.2 | 95.6 | 104 | 86.2 | 95.7 | 116.6 | 123.9 |
| SCNN1D | 206 | 191.7 | 153.3 | 129.1 | 161.4 | 172.8 | 141.5 | 160.1 |
| SCNN1G | 88.8 | 106.9 | 91.2 | 84.3 | 91.5 | 85 | 92.9 | 109.6 |
| SCO1 | 1061.8 | 1470.7 | 613.7 | 556.2 | 417.5 | 705.4 | 789.4 | 1016.6 |
| SCO2 | 1193.9 | 1574.9 | 1266.7 | 787.1 | 752.7 | 993.5 | 933.7 | 1147 |
| SCOC | 1265.6 | 1529.2 | 414.9 | 430 | 335.5 | 764 | 914.9 | 2293.9 |
| SCOTIN | 1967.6 | 2811.8 | 1222 | 830.9 | 602.2 | 862.2 | 1723.2 | 3408.7 |
| SCP2 | 111.4 | 132.9 | 93.9 | 89.5 | 81 | 93.4 | 96.8 | 130.2 |
| SCP2 | 434.6 | 581.5 | 197.2 | 217 | 226.7 | 189.2 | 258.1 | 363 |
| SCPEP1 | 2108.7 | 2690.1 | 1254.9 | 2336 | 2191.6 | 3208.2 | 1654.3 | 2357.3 |
| SCRG1 | 102.7 | 109.3 | 90.5 | 87.8 | 96.2 | 93.8 | 109.4 | 112.5 |
| SCRIB | 153.9 | 173 | 121.9 | 106.2 | 101.5 | 104.3 | 155.9 | 187.9 |
| SCRIB | 1343.5 | 1592.5 | 1002 | 660.2 | 535.7 | 635.1 | 1020.6 | 1005.2 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCRIB | 100.2 | 122.9 | 128.5 | 110.1 | 113.7 | 136.8 | 90.4 | 106.5 |
| SCRL | 83.2 | 94 | 87.6 | 89.7 | 95.8 | 87.1 | 85.5 | 91.7 |
| SCRN1 | 121 | 146.1 | 120.2 | 145.8 | 143.2 | 163.6 | 113.2 | 128 |
| SCRN2 | 129.6 | 152 | 120 | 113.9 | 112.5 | 120 | 125.7 | 117.1 |
| SCRN3 | 140.3 | 169.1 | 114.5 | 117.9 | 107.2 | 117.4 | 117.1 | 143.5 |
| SCRT1 | 81.6 | 92.6 | 99.8 | 99.4 | 91.7 | 94.2 | 87.6 | 87.3 |
| SCRT2 | 95.8 | 93.5 | 99.6 | 89.9 | 82.2 | 96 | 81.9 | 102.1 |
| SCT | 116.5 | 151.9 | 102.9 | 90.1 | 80.2 | 94.4 | 120.1 | 139.8 |
| SCTR | 108 | 135 | 100.2 | 92.8 | 89.9 | 90.2 | 104.5 | 127.4 |
| SCUBE1 | 102.3 | 111.4 | 118.2 | 103.6 | 98.4 | 123.6 | 98.3 | 123.9 |
| SCUBE2 | 82 | 88.3 | 104 | 98 | 96.1 | 105.2 | 86.2 | 73.3 |
| SCUBE3 | 100 | 117 | 87.1 | 93.8 | 87.3 | 94.7 | 93.8 | 90.6 |
| SCYE1 | 95.3 | 112 | 115.5 | 94.6 | 94.7 | 100.7 | 100.4 | 120.6 |
| SCYL1 | 450.5 | 575.4 | 284.1 | 247.9 | 217.9 | 270.1 | 443.4 | 643.7 |
| SCYL1 | 2310.7 | 2982.8 | 862.7 | 632.1 | 580.4 | 657.7 | 1999 | 1952.5 |
| SCYL1BP1 | 167.7 | 216.8 | 136.1 | 142.7 | 141.8 | 183.1 | 146.2 | 288 |
| SCYL2 | 757.5 | 843.8 | 405.7 | 387.7 | 358 | 562.7 | 736.2 | 1408.7 |
| SCYL3 | 273.9 | 322.4 | 135.8 | 127.5 | 132.9 | 158.7 | 246.2 | 385.1 |
| SCYL3 | 161.6 | 186 | 122.5 | 119.8 | 107.6 | 141.9 | 162.4 | 234.7 |
| SCYL3 | 89.4 | 99.3 | 93.2 | 80.8 | 86.6 | 88.3 | 91.7 | 91.7 |
| SDAD1 | 2823.6 | 3269.6 | 2011.3 | 1416.2 | 1058 | 2550.9 | 2455.4 | 4231 |
| SDC1 | 116.1 | 141.5 | 102.6 | 82.4 | 83.3 | 86.3 | 140.8 | 154.7 |
| SDC1 | 191.9 | 237.8 | 126.8 | 127.8 | 115.1 | 123.9 | 148.7 | 158.5 |
| SDC1 | 72.2 | 80.7 | 105.3 | 90 | 91.2 | 94.5 | 80.4 | 85.6 |
| SDC2 | 362.5 | 492.3 | 149.1 | 108.5 | 100.4 | 120 | 239.4 | 319.5 |
| SDC3 | 121.1 | 134 | 97.6 | 94.7 | 86 | 97.9 | 111.3 | 112.9 |
| SDC3 | 79.1 | 86.8 | 100.6 | 104 | 103.8 | 98 | 85.8 | 75.7 |
| SDC4 | 155.5 | 178.9 | 123.1 | 116.6 | 94.4 | 145.5 | 138 | 204.4 |
| SDCBP | 2327 | 2965.1 | 1051.5 | 1241.4 | 808.8 | 1763.3 | 2541.5 | 5586.9 |
| SDCBP2 | 107.4 | 110.4 | 97.9 | 92.3 | 86.6 | 84.8 | 112.4 | 112 |
| SDCBP2 | 93.2 | 94 | 92.1 | 80 | 82.4 | 82.8 | 83.6 | 94.5 |
| SDCBP2 | 96.6 | 123.2 | 93.9 | 78.5 | 80.1 | 89.2 | 95.5 | 105.5 |
| SDCBP2 | 97.6 | 111.5 | 87.4 | 83.7 | 73.6 | 77.7 | 100.7 | 99.1 |
| SDCCAG1 | 696.2 | 996.7 | 385.8 | 445.7 | 367.9 | 484.5 | 559.4 | 794.5 |
| SDCCAG10 | 2246.3 | 2837.2 | 859 | 993.2 | 885.1 | 1605.3 | 1521.4 | 2221.1 |
| SDCCAG3 | 1051.7 | 1296.9 | 778.8 | 401.2 | 337.9 | 541.4 | 679.2 | 1090.2 |
| SDCCAG3 | 135.4 | 174.6 | 103.6 | 101.4 | 99.8 | 91 | 115 | 158 |
| SDCCAG3 | 2647.1 | 2923.8 | 1890.8 | 1202.3 | 930.5 | 1500.4 | 1727.2 | 2010.6 |
| SDCCAG33 | 339 | 469.9 | 286.3 | 258.9 | 208.1 | 318.2 | 336.4 | 593.6 |
| SDCCAG8 | 299.6 | 481.9 | 215.8 | 226.3 | 226.7 | 326 | 260.4 | 313.2 |
| SDF2 | 1268.7 | 1538.7 | 854.4 | 893.6 | 740.1 | 1002.6 | 1150.1 | 2065.2 |
| SDF2L1 | 7081.9 | 8541.2 | 5297.7 | 4851.4 | 3736.8 | 4942.6 | 8567.7 | 9641.6 |
| SDF4 | 1242.6 | 1512.7 | 1037.6 | 958.3 | 754.4 | 954.9 | 1178.3 | 2373.5 |
| SDF4 | 100.9 | 114.4 | 105.8 | 91.8 | 84.4 | 90.6 | 93.6 | 117.4 |
| SDF4 | 1011.4 | 1578.6 | 700.7 | 554.2 | 442.7 | 369.7 | 995 | 1768 |
| SDFR1 | 1336.9 | 1434.3 | 382.8 | 370.3 | 221.9 | 531.1 | 1105 | 1934 |
| SDFR1 | 104.7 | 115.3 | 103.2 | 84.1 | 88 | 89.1 | 104.6 | 114.1 |
| SDHA | 1438.6 | 2095.1 | 1088.6 | 1000.1 | 952.3 | 1431.2 | 1395.2 | 1909 |
| SDHAP3 | 190.2 | 191.4 | 133.8 | 145 | 140.5 | 141.2 | 149.4 | 173.5 |
| SDHB | 4403 | 5313.4 | 2956.5 | 2904.2 | 2387.1 | 3609.5 | 3492.9 | 4872.7 |

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|----------|--------|---------|--------|--------|--------|--------|--------|---------|
| SDHC | 478.4 | 563.8 | 278.8 | 333.9 | 268.8 | 416.1 | 420.6 | 635.5 |
| SDHD | 2609.3 | 2913.3 | 680.1 | 913 | 555.2 | 973.1 | 2439.4 | 3940.8 |
| SDK1 | 109.9 | 107.2 | 96.3 | 93.7 | 94 | 94.6 | 98.4 | 101 |
| SDK1 | 103.8 | 118 | 109.7 | 99.9 | 105.4 | 102.8 | 113.3 | 122.9 |
| SDK2 | 102.8 | 110.3 | 89.4 | 92.3 | 83.6 | 88.7 | 99.6 | 101.9 |
| SDPR | 137.9 | 156.7 | 109.4 | 97.3 | 100.8 | 107.1 | 132.8 | 193.6 |
| SDR-O | 88.7 | 98.4 | 86 | 88.9 | 83.6 | 83.8 | 90 | 115 |
| SDS | 105.1 | 119.6 | 99.6 | 108.3 | 113.1 | 144.8 | 111.9 | 107.6 |
| SDSL | 665.6 | 905.8 | 448.4 | 588.5 | 458.2 | 799.3 | 612.6 | 627.2 |
| SEBOX | 75.6 | 84.9 | 94.2 | 87.7 | 81.2 | 88.4 | 81.4 | 92.4 |
| SEC10L1 | 137.2 | 164.5 | 118.7 | 120.9 | 110.5 | 140.8 | 126.3 | 159 |
| SEC11L1 | 6750.7 | 8974.1 | 4694.7 | 5728.3 | 4968.8 | 6282.9 | 6236.3 | 8058.8 |
| SEC11L3 | 1241.3 | 1287.6 | 260.8 | 356.1 | 257.8 | 329.6 | 1188.3 | 1908.4 |
| SEC14L1 | 101.7 | 136.2 | 111.8 | 116.5 | 102.9 | 116.8 | 111.1 | 159.1 |
| SEC14L1 | 192.7 | 233.2 | 161.4 | 138.6 | 132.6 | 146.5 | 185.7 | 215 |
| SEC14L2 | 79.3 | 101.2 | 97.9 | 91.2 | 90.4 | 92.2 | 87.8 | 95.5 |
| SEC14L3 | 92.4 | 129.8 | 87 | 85 | 77.6 | 87.5 | 92.4 | 90.9 |
| SEC14L4 | 131.4 | 159.2 | 95.2 | 76.9 | 74.4 | 86.9 | 112.5 | 139.3 |
| SEC22C | 630.9 | 901.3 | 725.2 | 869.4 | 772.3 | 1000.5 | 660.5 | 1201.2 |
| SEC22C | 427.5 | 572.3 | 307.3 | 249.1 | 244.6 | 280.5 | 380.8 | 418.3 |
| SEC22L1 | 1310.3 | 1458.3 | 735.7 | 583 | 458.1 | 583.9 | 1101.7 | 1579.6 |
| SEC22L2 | 786.6 | 1057.4 | 467.7 | 461.1 | 366.7 | 496.9 | 823.1 | 1070.5 |
| SEC22L3 | 307.2 | 451.2 | 176.7 | 156.1 | 134.9 | 138 | 297.1 | 365.9 |
| SEC23A | 85.4 | 97.5 | 87.5 | 77.2 | 81.5 | 82.6 | 79.7 | 88.4 |
| SEC23B | 1234.3 | 1642.9 | 618.7 | 683.1 | 523.5 | 750.4 | 767.3 | 1102.4 |
| SEC23B | 1409.2 | 1748.8 | 892.1 | 889 | 658.3 | 1210.9 | 823.1 | 1186 |
| SEC23IP | 562.9 | 695.9 | 412.2 | 379.3 | 272.6 | 536.2 | 479.8 | 919.3 |
| SEC24A | 156.3 | 202.8 | 111.8 | 129 | 101.4 | 142.9 | 196.9 | 351 |
| SEC24B | 410.6 | 478.4 | 180.5 | 206.9 | 240.1 | 214.9 | 414.2 | 650.3 |
| SEC24B | 76 | 81.5 | 83.8 | 76.4 | 73.3 | 81.6 | 69.6 | 78.1 |
| SEC24B | 213.4 | 273 | 149.3 | 109.4 | 119.9 | 143.9 | 184.3 | 246.5 |
| SEC24B | 225.2 | 257 | 119 | 98.2 | 90.7 | 104.2 | 166 | 239 |
| SEC24C | 1030.6 | 1149.6 | 1616.3 | 1063.7 | 917.4 | 1424.8 | 969.1 | 1294.6 |
| SEC24C | 157.9 | 174.5 | 141.2 | 111.6 | 113.5 | 115.8 | 145.2 | 163.7 |
| SEC24D | 408 | 470.3 | 191.7 | 185.2 | 148.3 | 284.8 | 426.6 | 1135.2 |
| SEC31L1 | 117.8 | 143.7 | 115.8 | 110 | 92.5 | 100.1 | 107.8 | 110.3 |
| SEC31L1 | 1243.1 | 1844.7 | 542.3 | 601 | 551.3 | 935.6 | 1119.1 | 1847.7 |
| SEC31L2 | 74.3 | 84.9 | 82.8 | 81.6 | 79.4 | 86.1 | 82.1 | 87.8 |
| SEC31L2 | 110.3 | 121 | 90.6 | 91 | 83.6 | 98.6 | 114.2 | 132.6 |
| SEC61A1 | 3540.5 | 5120 | 3130.1 | 3445.9 | 2780.8 | 3614.5 | 3365.7 | 3416.6 |
| SEC61A2 | 95.8 | 121.4 | 108.9 | 98.6 | 105.1 | 118.5 | 97.9 | 118.2 |
| SEC61B | 8609.2 | 10155.9 | 3248.8 | 3220.7 | 1943.6 | 2732.5 | 9296.8 | 12424 |
| SEC61G | 8011.4 | 10617.7 | 7320.7 | 5944.5 | 3689.8 | 6039.7 | 7077.3 | 9059.7 |
| SEC61G | 9932.8 | 11110.9 | 5715.7 | 4638.2 | 3521.8 | 5780.9 | 8311.1 | 12211.5 |
| SEC63 | 223 | 298.2 | 129.6 | 167.5 | 112.9 | 180.5 | 219 | 305.3 |
| SEC6L1 | 488.4 | 608.3 | 586.6 | 451.6 | 460.3 | 726.6 | 450.1 | 717.6 |
| SEC8L1 | 234.5 | 267.6 | 118.1 | 106.7 | 99.4 | 121.7 | 247.9 | 236 |
| SECISBP2 | 408.7 | 528.3 | 307.7 | 401 | 366.7 | 552 | 342.5 | 446.9 |
| SECTM1 | 143.9 | 166.1 | 92.5 | 76 | 78.9 | 89.5 | 141.4 | 156.1 |
| SEDLP | 703.8 | 866.3 | 286.7 | 255.1 | 242.2 | 354.2 | 628.4 | 826.5 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEH1L | 628 | 763.2 | 465.6 | 427.9 | 361.1 | 621.8 | 374 | 548.3 |
| SEH1L | 468.6 | 600.6 | 264.1 | 297.5 | 189.4 | 360.6 | 308.8 | 554.9 |
| SEH1L | 1274.1 | 1674.6 | 526.3 | 560.8 | 412.7 | 701 | 797.2 | 1021.8 |
| SEL1L | 129.7 | 157.7 | 117.6 | 137.1 | 117.2 | 164.2 | 125.8 | 161 |
| SELE | 110.5 | 125.5 | 96.5 | 89.5 | 95 | 89.6 | 115.2 | 132.7 |
| SELENBP1 | 98.7 | 130.5 | 95.4 | 92.8 | 86.9 | 94.8 | 108.3 | 114.5 |
| SELI | 211.3 | 313.1 | 212.7 | 226.1 | 195.7 | 241.7 | 200.7 | 293.4 |
| SELK | 1254.1 | 1527.7 | 629.1 | 502.9 | 442 | 581.1 | 1444.9 | 2084.9 |
| SELL | 87.4 | 93.5 | 97.4 | 87.6 | 85 | 86.4 | 88.9 | 88.5 |
| SELM | 93.6 | 103.4 | 103.5 | 96.3 | 94.3 | 95.3 | 97.7 | 115.7 |
| SELO | 273.1 | 327.4 | 228.5 | 188.9 | 195.1 | 288.1 | 234.8 | 360.6 |
| SELP | 103.4 | 109 | 95 | 90.5 | 89.9 | 86.4 | 97.4 | 102.2 |
| SELPLG | 93 | 108.3 | 97.2 | 104 | 110.5 | 91.9 | 89.4 | 96.2 |
| SELS | 131.3 | 152.6 | 96 | 97 | 91.8 | 97.7 | 119.9 | 150.5 |
| SELS | 3250.4 | 4169 | 2120.1 | 1786.7 | 1489.6 | 2266.7 | 3811.9 | 4717.3 |
| SELS | 1005.1 | 1293.5 | 734.2 | 637.2 | 612.4 | 943.4 | 1030.6 | 1188.4 |
| SELT | 97.6 | 118.6 | 93.9 | 92.5 | 81 | 88.9 | 92.6 | 106 |
| SELV | 90.8 | 93.8 | 89.9 | 79.3 | 79.4 | 87 | 91.5 | 91.2 |
| SEMA3A | 124.9 | 162.4 | 93.7 | 98.2 | 102.2 | 107.9 | 110.6 | 123.6 |
| SEMA3B | 188.7 | 215.9 | 113.9 | 93.9 | 82.2 | 97.8 | 160.2 | 209.5 |
| SEMA3B | 98.6 | 130.1 | 91.7 | 88.1 | 82 | 93.6 | 103.1 | 124.7 |
| SEMA3C | 79.4 | 86.1 | 78.2 | 82.9 | 82.3 | 87.1 | 83.3 | 80.5 |
| SEMA3D | 85.2 | 95.4 | 91 | 79.8 | 73.2 | 81.8 | 91.1 | 86.3 |
| SEMA3E | 990.4 | 843.4 | 800.7 | 1167 | 896.7 | 817.3 | 980.7 | 1722 |
| SEMA3F | 132.1 | 147.2 | 118.8 | 116.8 | 103.7 | 122.7 | 110.2 | 153.1 |
| SEMA3G | 129.6 | 134.5 | 110.1 | 89.7 | 84.5 | 103.6 | 125.9 | 138.8 |
| SEMA4A | 588.2 | 752.4 | 585.9 | 505.7 | 434.3 | 564.8 | 509.3 | 919.4 |
| SEMA4B | 121.5 | 133.3 | 164.3 | 147.9 | 150.5 | 199.5 | 118.7 | 171 |
| SEMA4B | 106.5 | 88.5 | 89 | 84.4 | 82.5 | 93.1 | 99.3 | 93.6 |
| SEMA4C | 117.4 | 141.2 | 109.9 | 106 | 102.5 | 106.5 | 113.2 | 131.9 |
| SEMA4D | 356.2 | 507.5 | 514.3 | 659.9 | 535.7 | 693.7 | 352.5 | 513.6 |
| SEMA4F | 179.8 | 206.3 | 152.4 | 148.2 | 123.7 | 146.4 | 181.6 | 217.5 |
| SEMA4G | 93.6 | 106.7 | 90.6 | 88.8 | 84.5 | 83.7 | 88 | 90.4 |
| SEMA5A | 81.6 | 99.9 | 111.6 | 96.1 | 95.9 | 100.9 | 88.6 | 93.1 |
| SEMA5B | 70.4 | 87.4 | 88.3 | 95.2 | 91.9 | 86.8 | 78.6 | 90.2 |
| SEMA6B | 118 | 145.6 | 113.8 | 96.3 | 95.1 | 93.9 | 128 | 153.8 |
| SEMA6B | 85.4 | 101.9 | 98.4 | 91.1 | 80.5 | 88.2 | 85.5 | 99 |
| SEMA6B | 84.8 | 89.6 | 104.6 | 89.1 | 84 | 85 | 91.2 | 87.9 |
| SEMA6C | 96.2 | 107.6 | 100.3 | 89.2 | 77 | 84.6 | 96.2 | 124.3 |
| SEMA6D | 86 | 88.6 | 93 | 90.4 | 87.6 | 96.2 | 82 | 86.1 |
| SEMA6D | 82.7 | 90 | 89.1 | 85 | 79.2 | 82.1 | 84.2 | 92.2 |
| SEMA6D | 88.5 | 113.5 | 106.9 | 91.9 | 98.2 | 91.7 | 87.6 | 99.2 |
| SEMA7A | 95.9 | 110.3 | 96.3 | 86 | 89.2 | 94.8 | 92.1 | 100.9 |
| SEMG1 | 283.7 | 363.5 | 185.5 | 229.5 | 194.8 | 294.9 | 214.4 | 248.6 |
| SEMG1 | 231.9 | 300.3 | 147.1 | 162.3 | 145.8 | 235.1 | 180 | 236.8 |
| SEMG2 | 75.1 | 84.1 | 96.7 | 93.2 | 83.8 | 82.5 | 81.9 | 85.3 |
| SENP2 | 351.3 | 446.9 | 212.8 | 273.1 | 191.6 | 330.5 | 301.4 | 471.3 |
| SENP3 | 128.2 | 153.5 | 100.7 | 94 | 77.1 | 81.2 | 136.2 | 173.9 |
| SENP5 | 210.5 | 242.1 | 133.7 | 124.6 | 115.2 | 149.2 | 179.7 | 213 |
| SENP6 | 90.7 | 106.1 | 90.3 | 98.2 | 90.4 | 98.2 | 99.9 | 107.2 |

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|----------|---------|---------|--------|--------|--------|--------|---------|---------|
| SENP7 | 123.2 | 146.5 | 88.6 | 75.4 | 80.1 | 91 | 114.8 | 134.2 |
| SENP7 | 254.2 | 318.1 | 171.6 | 157.9 | 161.9 | 179.8 | 215.1 | 289.8 |
| SENP8 | 101.6 | 94.1 | 95.1 | 81.8 | 89.6 | 84.5 | 91.4 | 121 |
| Sep-15 | 5174.3 | 5407.1 | 2332.7 | 2850.5 | 2065.7 | 2959.9 | 5078.8 | 7751.7 |
| SEPHS1 | 1643.2 | 2113.8 | 818.6 | 644.8 | 454.1 | 790.3 | 1090.7 | 1608.6 |
| SEPHS2 | 2045.2 | 2589.2 | 447.3 | 342.2 | 297.4 | 402.3 | 1887.9 | 2155 |
| SEPN1 | 82.4 | 89.9 | 95.1 | 91.7 | 91.2 | 98.3 | 85.1 | 84.8 |
| SEPN1 | 196 | 245.6 | 179.6 | 178.8 | 146.9 | 162.5 | 184.1 | 255.2 |
| SEPN1 | 417.3 | 565.8 | 847.9 | 895.7 | 724.2 | 1200.3 | 396.8 | 875.2 |
| SEPP1 | 90.2 | 90.9 | 91 | 84 | 89.6 | 90.9 | 85.4 | 92.7 |
| Sep-01 | 99.2 | 111 | 87.1 | 88.1 | 91.9 | 85 | 106.4 | 119.6 |
| Sep-10 | 91.2 | 93.6 | 91.8 | 86.7 | 92.2 | 87.5 | 85.1 | 84.5 |
| Sep-10 | 79.8 | 93.9 | 85 | 83.8 | 77 | 79.9 | 83.9 | 78.4 |
| Sep-11 | 883.5 | 1096.8 | 494.8 | 554.5 | 403.4 | 605.4 | 738.4 | 1536.9 |
| Sep-02 | 8934.4 | 11624.7 | 5781.8 | 7496.2 | 5870 | 7854.2 | 7666.2 | 8352.1 |
| Sep-02 | 5899.8 | 7719.1 | 5356.5 | 7516.5 | 4737.5 | 8449.6 | 5262.3 | 9652.3 |
| Sep-02 | 135.9 | 146.3 | 108.8 | 98.2 | 94.3 | 108 | 113.9 | 139.2 |
| Sep-02 | 329 | 432.3 | 112.4 | 113.1 | 102.5 | 109.2 | 245.7 | 358.3 |
| Sep-03 | 823.2 | 937.8 | 467.1 | 553.2 | 499.9 | 614.6 | 587.3 | 760.4 |
| Sep-03 | 262.6 | 327.8 | 206.4 | 248.3 | 174.1 | 266.7 | 229.8 | 415.1 |
| Sep-04 | 117.9 | 132.5 | 117 | 120.8 | 108.2 | 114.3 | 113.9 | 121.3 |
| Sep-04 | 156.7 | 168.2 | 147.4 | 122.8 | 115.1 | 118.1 | 131.1 | 142.4 |
| Sep-04 | 112.7 | 123 | 96.8 | 78 | 79.5 | 89.1 | 103.7 | 124.6 |
| Sep-04 | 135.3 | 154.9 | 96.9 | 85.4 | 76.9 | 88.8 | 116 | 140.2 |
| Sep-05 | 84.1 | 98.2 | 99.2 | 98.9 | 101 | 97 | 91.3 | 92.9 |
| Sep-06 | 94.5 | 114.9 | 91.8 | 93.6 | 89.7 | 94.3 | 105.6 | 125.2 |
| Sep-06 | 123.2 | 163.5 | 159.8 | 196.1 | 219.2 | 306 | 108.5 | 129.6 |
| Sep-06 | 406.8 | 557.1 | 247.1 | 320 | 326.2 | 301.4 | 311.9 | 402.4 |
| Sep-07 | 313.3 | 380.2 | 106.2 | 135.5 | 102.2 | 157.5 | 266.9 | 550.4 |
| Sep-09 | 3558.9 | 4799.5 | 3052.1 | 4047.7 | 2929.8 | 4542.6 | 2652 | 2877.1 |
| SEPW1 | 601.7 | 710.2 | 407.7 | 335.4 | 262.4 | 284 | 570.4 | 971.5 |
| SEPX1 | 3364.6 | 4254.1 | 2967.2 | 2687 | 1887 | 2261.2 | 4754.8 | 7352.6 |
| SERAC1 | 96.9 | 106.9 | 94.8 | 92.9 | 88.5 | 90.9 | 98.6 | 117.2 |
| SERF1A | 114.4 | 124.2 | 89.2 | 85.3 | 93.5 | 99.7 | 89.7 | 109.9 |
| SERF1A | 105.1 | 119 | 93 | 86 | 89.3 | 92.1 | 96.5 | 120.9 |
| SERF1B | 80.1 | 87.8 | 96 | 77.2 | 78.2 | 79.5 | 75.6 | 77.3 |
| SERF2 | 11311.5 | 15595.9 | 7705.9 | 7345 | 6730.5 | 9639.9 | 10973.9 | 11282.9 |
| SERGEF | 430.5 | 617.1 | 377.7 | 271.4 | 236.6 | 352.2 | 372.5 | 532.1 |
| SERHL | 112.8 | 125.9 | 105.6 | 96.5 | 98.9 | 103.4 | 95.8 | 110.4 |
| SERHL2 | 107.1 | 112.1 | 98.8 | 98.3 | 95.5 | 98.1 | 104.2 | 107.9 |
| SERINC1 | 659.7 | 745.8 | 270.7 | 457.1 | 335.9 | 513.1 | 710.4 | 1744.2 |
| SERINC2 | 105.6 | 117.9 | 119.4 | 119.9 | 104.9 | 124.5 | 100.6 | 141.7 |
| SERINC3 | 149.1 | 170 | 111 | 129.9 | 113.8 | 126.5 | 143.6 | 177.1 |
| SERINC3 | 157.4 | 172.1 | 91.3 | 109.6 | 97.5 | 95.4 | 153.9 | 251.1 |
| SERINC3 | 1379.7 | 2091.3 | 1183 | 1196.3 | 1115.2 | 1109.5 | 1471 | 2097.8 |
| SERINC4 | 123.8 | 166.3 | 84.6 | 83 | 87.1 | 85.9 | 107.4 | 125.4 |
| SERINC5 | 72.1 | 84.8 | 80.3 | 86 | 78.5 | 83.9 | 76.9 | 73.4 |
| SERP1 | 905 | 1211.8 | 268.1 | 254.1 | 184.7 | 406.6 | 668.9 | 1324.7 |
| SERPINA1 | 159.1 | 208.6 | 119.2 | 136.1 | 132.7 | 171.2 | 151 | 161.8 |
| SERPINA1 | 73.1 | 76.6 | 85.4 | 79.4 | 82.3 | 84.9 | 71 | 76.6 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| SERPINA1 | 89.1 | 111.3 | 93.5 | 122.5 | 102.1 | 135.8 | 88.1 | 106 |
| SERPINA1 | 77.2 | 88.7 | 94.9 | 85.1 | 99.3 | 96.6 | 80 | 89.7 |
| SERPINA10 | 99.9 | 104.3 | 87 | 77.2 | 78.1 | 89 | 118.6 | 102.2 |
| SERPINA11 | 111.5 | 146.4 | 97.5 | 89.8 | 89.8 | 92.3 | 107 | 125.9 |
| SERPINA11 | 75.5 | 88 | 86.5 | 88.2 | 74.4 | 69.2 | 87.5 | 96.8 |
| SERPINA12 | 81.1 | 89 | 90.7 | 94.1 | 85.3 | 86.1 | 77.3 | 80.9 |
| SERPINA13 | 83.3 | 94.7 | 93.3 | 86 | 78 | 83.6 | 84.7 | 87.1 |
| SERPINA3 | 85.4 | 94.8 | 91.8 | 96.9 | 87 | 85.2 | 81.2 | 84 |
| SERPINA4 | 130.7 | 158.8 | 100.5 | 91.6 | 81.8 | 82.1 | 118.5 | 137 |
| SERPINA5 | 96.8 | 117.7 | 88 | 82 | 71.4 | 82.7 | 109.5 | 109.8 |
| SERPINA6 | 85.3 | 92 | 81.7 | 82.5 | 77.9 | 83.3 | 96.7 | 94.7 |
| SERPINA7 | 91.9 | 100.3 | 94.4 | 93.3 | 88.3 | 91.2 | 100.6 | 104.9 |
| SERPINA9 | 97.6 | 98.2 | 105.9 | 106.8 | 95.1 | 100.4 | 88.7 | 94.6 |
| SERPINA9 | 83.2 | 80.6 | 86.3 | 84.2 | 86.8 | 80.5 | 84.1 | 74.2 |
| SERPINB1 | 763.5 | 1092.2 | 408.5 | 509 | 417.1 | 614.1 | 671.1 | 1114.9 |
| SERPINB10 | 447.1 | 603.9 | 226 | 413.7 | 351.4 | 620.3 | 232 | 283.1 |
| SERPINB11 | 89.3 | 102.7 | 108.7 | 92.5 | 96 | 94.4 | 90.1 | 103.2 |
| SERPINB12 | 67.7 | 76.2 | 85.1 | 80.9 | 78 | 78.1 | 66.6 | 66.8 |
| SERPINB13 | 99 | 111.3 | 73.9 | 69.9 | 72.1 | 71.6 | 104.8 | 110.4 |
| SERPINB2 | 2772.5 | 2914.1 | 1007.3 | 1049.3 | 589.7 | 1657.5 | 591.8 | 569.5 |
| SERPINB3 | 91.3 | 93.9 | 83.1 | 92.6 | 75.8 | 79.8 | 89.3 | 87.5 |
| SERPINB4 | 69.4 | 84.5 | 90.7 | 85.2 | 75.1 | 83.4 | 75.9 | 79.3 |
| SERPINB5 | 103.3 | 114.1 | 102.6 | 102.9 | 90.7 | 93.6 | 104.4 | 110.2 |
| SERPINB6 | 2157.3 | 2599.6 | 1356.5 | 893.4 | 747.6 | 846.8 | 1968.2 | 2114.1 |
| SERPINB7 | 83.9 | 112.2 | 84.4 | 81.4 | 79.5 | 88.8 | 91.1 | 102.6 |
| SERPINB7 | 90.6 | 94.7 | 98.3 | 88.2 | 91.3 | 84.8 | 92.8 | 100.4 |
| SERPINB8 | 1636.4 | 2274.7 | 1032.3 | 727.8 | 560.9 | 924.5 | 862.2 | 1090.9 |
| SERPINB8 | 1436.6 | 2203 | 883.8 | 708 | 523 | 888 | 839.4 | 992.8 |
| SERPINB9 | 87.1 | 90.6 | 108.7 | 81.9 | 88.5 | 94 | 82.2 | 91.8 |
| SERPINC1 | 105.5 | 120.1 | 103.1 | 98.9 | 92.5 | 95.8 | 96.5 | 114.1 |
| SERPIND1 | 88.5 | 89.6 | 107.2 | 93.4 | 84.5 | 86.3 | 92 | 96.1 |
| SERPINE1 | 90.7 | 89 | 86.7 | 87.5 | 88.1 | 89.5 | 153.3 | 217.3 |
| SERPINE2 | 807 | 1038.7 | 583.2 | 585.5 | 473.1 | 666.6 | 726.3 | 1020.3 |
| SERPINF1 | 704.7 | 837.1 | 290.8 | 632.7 | 410.5 | 578.6 | 592 | 731.1 |
| SERPINF2 | 99.3 | 109.8 | 85.5 | 83.2 | 80.8 | 90.9 | 92 | 98.7 |
| SERPING1 | 128.2 | 138.7 | 95 | 94.3 | 93.2 | 99.1 | 117.1 | 136 |
| SERPING1 | 126.4 | 139 | 108.8 | 94.4 | 102.7 | 95.6 | 122.4 | 129.3 |
| SERPINH1 | 696.2 | 954 | 491.7 | 371.8 | 272.8 | 498.7 | 669 | 992.7 |
| SERPINI1 | 86.2 | 104.1 | 86.1 | 85 | 85.7 | 90.5 | 99.6 | 116.5 |
| SERPINI2 | 164.6 | 168.3 | 120.4 | 137.4 | 149.8 | 174.1 | 133.3 | 214.8 |
| SERTAD1 | 262.9 | 312.1 | 232.8 | 184.9 | 153.2 | 201 | 385.8 | 614.3 |
| SERTAD2 | 2207.5 | 2739.3 | 1554.1 | 1490.5 | 1291.1 | 1442 | 1863.4 | 2156 |
| SERTAD3 | 470.6 | 657 | 384.1 | 294.5 | 231.9 | 292 | 446.2 | 566.8 |
| SERTAD3 | 126.6 | 149.4 | 103.5 | 86.7 | 79.5 | 84.2 | 123.4 | 125.9 |
| SERTAD3 | 215.8 | 261.6 | 149.6 | 140.7 | 124 | 109.2 | 194.3 | 210.9 |
| SERTAD4 | 96.4 | 111.4 | 101.1 | 94.3 | 95 | 92.9 | 99.9 | 106.2 |
| SESN1 | 369 | 510 | 302.5 | 521.3 | 452.4 | 692.4 | 365.9 | 620.9 |
| SESN2 | 89.1 | 95.2 | 101.3 | 84 | 85 | 93.9 | 91.4 | 113.4 |
| SESN3 | 291.7 | 352.5 | 173.9 | 198.6 | 148.1 | 208.3 | 180.5 | 204 |
| SESTD1 | 472.9 | 585.8 | 324.8 | 310.8 | 275.3 | 403.3 | 342.3 | 589.4 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SET | 3826.6 | 4163.8 | 1906.6 | 1412 | 864 | 1597.4 | 2892.9 | 5159.5 |
| SET7 | 100.2 | 110.2 | 103.7 | 83.2 | 84 | 88 | 112.5 | 108 |
| SETBP1 | 114.2 | 125.1 | 115.1 | 124.7 | 95.3 | 131.8 | 103.1 | 113.5 |
| SETD1A | 312.9 | 338.7 | 490.8 | 436.1 | 379.8 | 564.9 | 277.3 | 538.3 |
| SETD3 | 307.5 | 481.4 | 162.9 | 139 | 125 | 168.3 | 244.8 | 314.4 |
| SETD3 | 101.4 | 104.3 | 104.8 | 101.7 | 99.4 | 101.4 | 101.4 | 115.2 |
| SETD3 | 3791.8 | 4860.9 | 2937.2 | 2730.1 | 2457 | 3970.1 | 3244.8 | 3933.5 |
| SETD4 | 287.2 | 372.5 | 260.2 | 202.7 | 165.8 | 214.9 | 251.7 | 278 |
| SETD6 | 100.4 | 119.7 | 79.8 | 78.2 | 65.9 | 78.6 | 101.4 | 116.4 |
| SETD8 | 459.9 | 627.6 | 342.9 | 309.4 | 289.6 | 367 | 415.1 | 688.1 |
| SETDB1 | 600.2 | 703 | 621.4 | 554.1 | 442.1 | 748.1 | 445.1 | 898.7 |
| SETDB2 | 864.9 | 1103 | 282.8 | 392.2 | 387.2 | 830 | 692.8 | 912.8 |
| SETMAR | 1097 | 1372.6 | 795.8 | 772.7 | 529.7 | 845.3 | 770.7 | 1066.2 |
| SETX | 257 | 357.4 | 141.3 | 149.8 | 138.2 | 186.9 | 274.9 | 332.6 |
| SEZ6 | 113.5 | 117.1 | 81.3 | 89.2 | 84.9 | 74.8 | 108.4 | 138.6 |
| SEZ6L | 67.3 | 83.5 | 81.8 | 75.5 | 78.3 | 70.7 | 71.9 | 78.2 |
| SEZ6L2 | 119.5 | 166.5 | 107 | 96.6 | 104.7 | 100.8 | 133.8 | 149.6 |
| SEZ6L2 | 92.1 | 102.3 | 92.6 | 80 | 81.1 | 91.1 | 88.2 | 94.6 |
| SEZ6L2 | 1695.2 | 2109.2 | 1356 | 2056.2 | 1539.5 | 2016 | 1499.8 | 1634 |
| SF1 | 136.2 | 132.5 | 112.5 | 121.6 | 107.9 | 90.8 | 126.5 | 161 |
| SF1 | 236 | 212.3 | 113.5 | 163 | 159.8 | 85.7 | 153.8 | 233.6 |
| SF1 | 138.9 | 203 | 180.1 | 128.3 | 142.1 | 154.9 | 147.7 | 205.3 |
| SF3A1 | 107.1 | 123 | 105.1 | 109.7 | 106.9 | 96.7 | 114.6 | 116.5 |
| SF3A1 | 421.8 | 575.2 | 434.9 | 528.1 | 438.9 | 653.5 | 385.5 | 795.6 |
| SF3A2 | 2446.4 | 2920.5 | 2128.2 | 1485.8 | 1127.4 | 1434.5 | 2441.6 | 3760.8 |
| SF3A3 | 3890 | 4628.2 | 1825.4 | 2037.5 | 1679.8 | 2218.2 | 2905 | 2161.6 |
| SF3B1 | 107.4 | 117.1 | 103.3 | 97.1 | 94.7 | 102.1 | 97 | 111.5 |
| SF3B1 | 2025.5 | 3119.7 | 1943.9 | 2254.8 | 1896.9 | 4056.3 | 1857 | 3285.9 |
| SF3B1 | 744.6 | 801.6 | 235.5 | 344.3 | 276.8 | 211.3 | 522.9 | 928.7 |
| SF3B14 | 2746.8 | 3191.8 | 845.1 | 594 | 523.1 | 720 | 2656.3 | 4077.4 |
| SF3B2 | 1653.5 | 2213.1 | 1351.6 | 1158.3 | 983.7 | 1734.1 | 1351.9 | 1891.7 |
| SF3B3 | 1219.5 | 1342.7 | 889.4 | 850.6 | 647.3 | 898.2 | 1141.2 | 965.3 |
| SF3B4 | 4540.9 | 5611.1 | 3059.4 | 2270.8 | 1445.7 | 1997.1 | 4350.2 | 7070.9 |
| SF3B5 | 4238.3 | 4494.3 | 3434.3 | 2946.8 | 2037.9 | 3456.8 | 3527.3 | 4277.1 |
| SF4 | 783.7 | 1011.4 | 523.3 | 418.9 | 420.8 | 518.3 | 704.2 | 953.6 |
| SFI1 | 95.5 | 119.4 | 98.3 | 89.3 | 84 | 92.8 | 101.9 | 114.3 |
| SFI1 | 128 | 134.4 | 106 | 106.9 | 100.4 | 104.5 | 104.9 | 126.6 |
| SFI1 | 108.8 | 118.7 | 102.9 | 104.3 | 84.9 | 101.6 | 93.3 | 114 |
| SFMBT1 | 241.1 | 338.6 | 184.4 | 151.6 | 145.7 | 201.4 | 205.2 | 346.1 |
| SFMBT1 | 285.5 | 379.7 | 258 | 191.6 | 189.6 | 244.7 | 246 | 338.9 |
| SFMBT1 | 75.1 | 85.1 | 84.5 | 91.4 | 82.6 | 88.2 | 79.1 | 83.4 |
| SFMBT2 | 134.4 | 218.3 | 184.1 | 387.2 | 333.7 | 151 | 155.5 | 135 |
| SFN | 85.9 | 94.8 | 90.6 | 91.5 | 84.4 | 91.2 | 87.6 | 102.4 |
| SFPQ | 320.5 | 372.2 | 150.4 | 124.2 | 106.9 | 156.1 | 333.4 | 440.1 |
| SFRP1 | 262 | 350.8 | 321.7 | 694.7 | 534.9 | 991.6 | 196.5 | 319 |
| SFRP2 | 79.7 | 86.4 | 88.4 | 92.9 | 85.8 | 82.6 | 77.9 | 79.4 |
| SFRP4 | 85.5 | 97.7 | 86.4 | 82 | 82.8 | 90.6 | 88.8 | 81.7 |
| SFRP5 | 74.7 | 79 | 92.7 | 82.2 | 79.2 | 80.8 | 75.4 | 80.6 |
| SFRS1 | 8225.9 | 9547.1 | 2070.5 | 2185.4 | 1193.2 | 2053.4 | 6910.5 | 8473.2 |
| SFRS10 | 5181.8 | 7451.9 | 2945.4 | 2199.5 | 1732.1 | 2471.5 | 4172.1 | 5718 |

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|---------|---------|---------|---------|---------|--------|---------|---------|---------|
| SFRS11 | 341.9 | 380.5 | 159.4 | 167.3 | 147.5 | 250.5 | 302.7 | 487.4 |
| SFRS12 | 239.9 | 285.2 | 156.3 | 161.5 | 143.1 | 252.5 | 196 | 348.3 |
| SFRS12 | 633.6 | 740 | 259.1 | 322.4 | 283.4 | 474.3 | 461.2 | 852.7 |
| SFRS12 | 173.3 | 234.5 | 127.8 | 131.6 | 117.8 | 96.4 | 133.5 | 124.2 |
| SFRS14 | 1918.6 | 1870.7 | 1167.7 | 1025.8 | 1075.7 | 1406.9 | 1286.7 | 1438.3 |
| SFRS14 | 804.6 | 814.2 | 545 | 476.7 | 507 | 672.9 | 545 | 981.4 |
| SFRS14 | 196 | 186.5 | 236.4 | 172.2 | 195.4 | 150.8 | 141.6 | 235.4 |
| SFRS15 | 363.8 | 541.5 | 355.8 | 531.5 | 382.4 | 567.5 | 394.8 | 599.8 |
| SFRS16 | 194.5 | 223.1 | 167.5 | 133.9 | 138.4 | 210.3 | 153.5 | 237.5 |
| SFRS2 | 14297.3 | 16381.9 | 10494.6 | 7544.3 | 6476.6 | 9358.4 | 10723.2 | 18107.8 |
| SFRS2IP | 831.4 | 1280.7 | 481.3 | 747.3 | 659.8 | 1134.3 | 675.9 | 888.4 |
| SFRS3 | 134.4 | 156.8 | 88 | 84.6 | 91 | 96.1 | 113.6 | 158.1 |
| SFRS4 | 2320.1 | 3084.4 | 1910.5 | 2116 | 1772.7 | 2602.8 | 2269.6 | 3521.7 |
| SFRS5 | 4592.1 | 5533.6 | 3303.4 | 2841.3 | 2874.9 | 3113.7 | 3655.6 | 3973.9 |
| SFRS5 | 5910.4 | 6575.3 | 3499.7 | 2939.5 | 2720.6 | 3180.3 | 4635.5 | 5084.1 |
| SFRS6 | 6566.5 | 8389.4 | 4934.1 | 5165.8 | 3581.4 | 4926.1 | 5168.7 | 6797.5 |
| SFRS7 | 1735 | 2073 | 1180.3 | 1070.7 | 740.3 | 1339.9 | 1257.5 | 1958.6 |
| SFRS8 | 240.8 | 344.1 | 168.3 | 163.2 | 145.9 | 222.2 | 244.7 | 513.3 |
| SFRS9 | 8763.4 | 10922.9 | 6872.9 | 6277 | 5185.9 | 8159.6 | 6816.9 | 10186.3 |
| SFT2D1 | 10210.1 | 12977.1 | 9583.4 | 11123.4 | 9000 | 12525.6 | 9512.4 | 13756 |
| SFT2D2 | 133.1 | 157.8 | 114 | 95.6 | 99.8 | 97.9 | 118 | 152.1 |
| SFT2D3 | 149.1 | 180.5 | 126.2 | 132.4 | 119.1 | 135.8 | 118.2 | 178.6 |
| SFTPA1 | 100 | 96.9 | 95.1 | 74.8 | 82.7 | 77.5 | 93.1 | 104.4 |
| SFTPA2 | 87.4 | 104.7 | 91.6 | 88.9 | 84.2 | 89.4 | 107.5 | 96.6 |
| SFTPb | 87.3 | 101.2 | 90.3 | 92.5 | 91.9 | 93.9 | 87.5 | 91 |
| SFTPb | 80.5 | 99.6 | 111 | 103.5 | 91.5 | 99.1 | 94.2 | 89.4 |
| SFTPC | 83.8 | 84.9 | 98.2 | 89.3 | 90.3 | 89 | 76.8 | 80.2 |
| SFTPD | 277 | 339.1 | 256.9 | 347 | 291.5 | 396.9 | 241.2 | 294.9 |
| SFTPG | 112.4 | 135.5 | 105 | 104 | 92.1 | 109.4 | 123.2 | 118.1 |
| SFXN1 | 556.3 | 817 | 485.9 | 439.9 | 292.3 | 366.6 | 442 | 799.6 |
| SFXN2 | 165.1 | 187.6 | 154.3 | 125.2 | 111.2 | 136.2 | 139.7 | 151 |
| SFXN3 | 150.3 | 174.6 | 119.4 | 112.5 | 100 | 97.2 | 137.3 | 201.8 |
| SFXN4 | 1146 | 1685 | 932.3 | 594.1 | 471.4 | 800.2 | 810.2 | 1103.8 |
| SFXN4 | 2004.5 | 2586.2 | 1268.9 | 1054.2 | 825.2 | 1006.3 | 1699.2 | 2135 |
| SFXN4 | 186.9 | 245.7 | 126 | 129.5 | 111.2 | 147.6 | 197.8 | 239.5 |
| SFXN5 | 133.6 | 143.8 | 165.2 | 178 | 183.3 | 237.8 | 133 | 230.8 |
| SGCA | 101.1 | 108 | 107.2 | 93.6 | 104.5 | 104.5 | 102.8 | 106.8 |
| SGCB | 129.4 | 163.4 | 99.5 | 104.6 | 98.6 | 103.4 | 133 | 164.1 |
| SGCD | 86.9 | 101.8 | 86.7 | 80.7 | 81.1 | 91.5 | 87.9 | 101.2 |
| SGCD | 109 | 112.1 | 105.4 | 94.2 | 90.7 | 89.7 | 98.1 | 104 |
| SGCD | 98.5 | 123.6 | 105.5 | 92.6 | 83.5 | 88.6 | 98.3 | 108.4 |
| SGCE | 73.9 | 87.8 | 87.7 | 83.9 | 91.3 | 84.7 | 85.4 | 100.8 |
| SGCG | 91.8 | 95.5 | 90.3 | 92.3 | 82.8 | 90.9 | 88.7 | 104.3 |
| SGCZ | 121.9 | 119.7 | 102.1 | 93 | 92.3 | 95.8 | 102.7 | 112.1 |
| SGEF | 102.2 | 113.8 | 88 | 88.6 | 82.5 | 85.6 | 101.3 | 93.9 |
| SGIP1 | 622.2 | 741.8 | 462.7 | 278.4 | 213.3 | 327.9 | 383.6 | 556.4 |
| SGK | 180.7 | 197 | 136.4 | 221.7 | 240.4 | 377.1 | 159.4 | 284.3 |
| SGK2 | 87.8 | 103.7 | 84.5 | 85.2 | 86.3 | 80.2 | 85.9 | 95.2 |
| SGK2 | 73.5 | 86.3 | 86.3 | 93.1 | 83 | 87.8 | 70.6 | 76.3 |
| SGK2 | 107 | 138.2 | 96.3 | 84.1 | 83.3 | 83.1 | 107.1 | 121.9 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| SGK3 | 93.2 | 120.7 | 104.6 | 86.8 | 87.9 | 84.8 | 96.8 | 104.9 |
| SGK3 | 1490.6 | 1777.7 | 693.2 | 561.1 | 522.2 | 694.5 | 1298.5 | 1832.2 |
| SGK3 | 1144.8 | 1491.7 | 464.6 | 385.2 | 368.3 | 368.4 | 867.7 | 1069.6 |
| SGOL1 | 417.6 | 561.4 | 278.8 | 235.6 | 229.8 | 272.9 | 385.6 | 500.4 |
| SGOL2 | 93.8 | 92.2 | 85.6 | 84 | 83.8 | 85 | 87.3 | 99.3 |
| SGPL1 | 137.4 | 181 | 128.1 | 119.7 | 112.5 | 122.2 | 137.8 | 164.9 |
| SGPP1 | 119.6 | 146.4 | 94.5 | 88.3 | 91.2 | 92.3 | 106.4 | 124 |
| SGPP2 | 96.1 | 105.6 | 119.1 | 91.2 | 95.2 | 89.1 | 101.6 | 98.5 |
| SGPP2 | 83.4 | 83.3 | 98.4 | 85 | 84.6 | 88.8 | 76.6 | 80.6 |
| SGSH | 126.9 | 154.1 | 163.9 | 138.6 | 123.4 | 164.6 | 132.2 | 211.2 |
| SGTA | 236.4 | 337 | 151.6 | 115.4 | 113.9 | 168.5 | 218.2 | 395.5 |
| SGTB | 164.3 | 202.7 | 101 | 104.9 | 97.1 | 120.7 | 194.6 | 248.3 |
| SH2B1 | 197.9 | 200.9 | 261.3 | 192.4 | 157.6 | 224.6 | 161.6 | 381.7 |
| SH2D1A | 183.3 | 221.8 | 112.7 | 102.2 | 102.6 | 112.7 | 180.3 | 224.5 |
| SH2D1B | 101.4 | 106.6 | 99.1 | 81.3 | 85.6 | 91.3 | 89.6 | 104.2 |
| SH2D2A | 138.5 | 180.2 | 96.3 | 92.9 | 95.1 | 100.6 | 149.3 | 142.1 |
| SH2D3A | 94.8 | 122.2 | 100.9 | 86.9 | 98.6 | 97.6 | 105.5 | 116.9 |
| SH2D3C | 136.4 | 168.3 | 208.6 | 180 | 157.6 | 183.7 | 136.2 | 231.3 |
| SH2D3C | 101.4 | 104.6 | 112.3 | 105.8 | 109.1 | 106.2 | 92.3 | 113.4 |
| SH2D3C | 120.8 | 156.8 | 100.9 | 90.8 | 90.9 | 96.4 | 119.7 | 154.6 |
| SH2D4A | 222.3 | 284.4 | 148.8 | 176.6 | 143.2 | 228.3 | 200.8 | 189.4 |
| SH2D4B | 88.8 | 98.6 | 86.3 | 81.1 | 82.8 | 80.4 | 89.1 | 96.3 |
| SH3BGR | 148.6 | 174.7 | 107.5 | 94.4 | 91.9 | 86.1 | 144.2 | 167.4 |
| SH3BGR | 174.8 | 227.1 | 112.7 | 123.5 | 106.3 | 126.1 | 170.4 | 183.2 |
| SH3BGRL | 78.1 | 80 | 88.3 | 77.6 | 77.1 | 72.8 | 79.8 | 80.7 |
| SH3BGRL2 | 166.6 | 214.7 | 157 | 109.9 | 100.7 | 143.2 | 159.7 | 152.9 |
| SH3BGRL3 | 1980.3 | 2574.6 | 1819.9 | 1741.4 | 1232.3 | 1611.4 | 1965.4 | 3366.6 |
| SH3BP1 | 186.7 | 227.2 | 247 | 255.2 | 227.7 | 266 | 171.2 | 320.6 |
| SH3BP2 | 111 | 134.1 | 100.4 | 96.2 | 96.1 | 95.9 | 110.7 | 119.9 |
| SH3BP4 | 99.9 | 122 | 101.2 | 87.7 | 71.9 | 76.4 | 113.7 | 140.4 |
| SH3BP5 | 82.8 | 94.9 | 96.3 | 84 | 86.8 | 86.8 | 95.5 | 103.7 |
| SH3BP5 | 97.1 | 107.3 | 97.9 | 90.2 | 81.7 | 89.6 | 89.4 | 98.9 |
| SH3BP5L | 251.8 | 310.2 | 325.9 | 367.5 | 352.9 | 468.7 | 264 | 535.8 |
| SH3D19 | 89.2 | 98.4 | 97.3 | 90.9 | 83 | 89.2 | 86.3 | 112.5 |
| SH3GL1 | 365.2 | 475.3 | 187.4 | 138 | 123.1 | 133.1 | 385.5 | 265.2 |
| SH3GL2 | 104.2 | 111.1 | 117.2 | 106.1 | 106 | 98.2 | 102.7 | 103.8 |
| SH3GL3 | 83.3 | 88.8 | 103 | 92.5 | 87 | 91.8 | 89.5 | 86.2 |
| SH3GLB1 | 1204.2 | 1641.1 | 981 | 872.7 | 680.3 | 1281.9 | 1077.1 | 1705.3 |
| SH3GLB2 | 1491.1 | 1926.7 | 1542.2 | 1026.6 | 928.8 | 1315 | 1240.5 | 1566.4 |
| SH3KBP1 | 7384 | 7780.5 | 5454 | 4931.6 | 4196.7 | 5349.6 | 6520.7 | 8508.6 |
| SH3KBP1 | 113.9 | 123.6 | 93.5 | 98.9 | 84.4 | 92 | 109.6 | 113.5 |
| SH3KBP1 | 3377.6 | 4986.7 | 3956.2 | 4749.3 | 4284.5 | 5589.5 | 2965.5 | 5235.7 |
| SH3MD2 | 149.9 | 188.7 | 134.9 | 114 | 105 | 131.5 | 135.1 | 147.9 |
| SH3PX3 | 112.7 | 150.2 | 148.2 | 146.4 | 118.4 | 182.2 | 125 | 166.8 |
| SH3PXD2A | 227.3 | 331.6 | 217.3 | 158.8 | 147.2 | 188.1 | 343.1 | 372.4 |
| SH3PXD2B | 108.9 | 126.8 | 90.1 | 100.8 | 83.9 | 107.4 | 100.9 | 129.6 |
| SH3RF2 | 110.8 | 126.9 | 99.1 | 103.4 | 91 | 86.1 | 124.3 | 117.5 |
| SH3TC1 | 88 | 111.5 | 98.5 | 112.6 | 123.2 | 161.7 | 95.7 | 118 |
| SH3TC2 | 127.2 | 164.7 | 102.4 | 106.1 | 95.5 | 97.6 | 132.9 | 133.5 |
| SH3YL1 | 220.8 | 295.5 | 142.8 | 136.6 | 138.9 | 136.9 | 188.3 | 290.9 |

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| SHANK1 | 85.8 | 88.4 | 103.9 | 94.3 | 85.2 | 93.5 | 81.7 | 90.1 |
| SHANK2 | 104.9 | 125 | 103.6 | 92.9 | 82.3 | 83 | 104.1 | 108.3 |
| SHANK2 | 94.1 | 119.5 | 93.4 | 91.9 | 78.8 | 85.3 | 101 | 111.6 |
| SHANK3 | 140 | 162.5 | 139 | 176.8 | 156.5 | 196.1 | 134.6 | 150.5 |
| SHARPIN | 330 | 423.5 | 200.4 | 145.2 | 139 | 145.4 | 265.8 | 359.7 |
| SHB | 114.1 | 130.4 | 135.3 | 115 | 107.5 | 133.7 | 117.1 | 166 |
| SHBG | 113.9 | 138.7 | 83.6 | 88.4 | 86.4 | 95.8 | 110.8 | 113.9 |
| SHC1 | 136.4 | 158.9 | 124.1 | 111.7 | 106.8 | 114.7 | 141.5 | 173.7 |
| SHC1 | 87.7 | 93.8 | 86.5 | 83.3 | 87.6 | 88.5 | 80.7 | 95 |
| SHC1 | 1275.6 | 1641.8 | 1388.4 | 1048.7 | 793.7 | 1279.5 | 1373.2 | 3399.1 |
| SHC3 | 116.1 | 130.4 | 83.9 | 89.4 | 79.2 | 97.4 | 111 | 134.9 |
| SHC4 | 109 | 117.1 | 122.2 | 98.1 | 94.2 | 104.7 | 105.4 | 129 |
| SHCBP1 | 10492 | 11221.6 | 4942.3 | 7094.3 | 5673.5 | 5861.9 | 9468.8 | 8653.5 |
| SHD | 84.6 | 90.4 | 90.1 | 87.4 | 87.9 | 90.9 | 89.6 | 82.3 |
| SHE | 135.1 | 153.4 | 118.1 | 99 | 96.5 | 113.1 | 122.5 | 134.1 |
| SHF | 110.1 | 118.1 | 103.6 | 90.7 | 95.9 | 97.2 | 105.1 | 122.7 |
| SHFM1 | 12512.2 | 15125.2 | 11674.2 | 9180.5 | 7876.7 | 11266.1 | 11999 | 16140 |
| SHH | 107.5 | 129.9 | 101.6 | 91 | 90 | 102.3 | 109.4 | 125.3 |
| SHKBP1 | 235.1 | 316 | 253.7 | 188.9 | 151.9 | 246.2 | 244 | 413.6 |
| SHMT1 | 706.8 | 843 | 328.8 | 426.2 | 348.6 | 469.3 | 438.6 | 391.8 |
| SHMT1 | 201.8 | 241.2 | 119.6 | 116.5 | 98.4 | 113 | 202.9 | 262.5 |
| SHMT1 | 150.8 | 208.7 | 119.7 | 121.1 | 113.6 | 119.8 | 156.4 | 183.1 |
| SHMT2 | 5261.3 | 7104.5 | 4671.9 | 3148.3 | 2349.3 | 3305 | 4607.7 | 6411.4 |
| SHOC2 | 403 | 488.7 | 135.7 | 138.3 | 132.6 | 188.5 | 296.1 | 490 |
| SHOX | 89 | 104.3 | 98 | 90.3 | 80.8 | 95.1 | 99 | 99.9 |
| SHOX | 94.5 | 97.7 | 101.9 | 96.8 | 83.9 | 92.8 | 84.4 | 99.8 |
| SHOX2 | 315.7 | 407.8 | 188.4 | 272.2 | 283.3 | 353.3 | 299.5 | 463.6 |
| SHOX2 | 120.3 | 149.5 | 89.9 | 95.8 | 97.7 | 89.1 | 112.8 | 126.1 |
| SHPRH | 145.2 | 168.9 | 117.4 | 148.6 | 147 | 185.5 | 113.7 | 126 |
| SHPRH | 193.9 | 249.8 | 162.2 | 214.3 | 174.9 | 271.2 | 179.3 | 241.1 |
| SHQ1 | 497.5 | 671 | 262.5 | 220.8 | 174.5 | 291.4 | 385.6 | 550.4 |
| SHRM | 92.9 | 86.3 | 102.8 | 89.7 | 96.5 | 91.5 | 91.5 | 85.4 |
| SHROOM4 | 979.3 | 911.7 | 811.5 | 1174.3 | 997.9 | 780.9 | 913.4 | 1895.7 |
| SI | 79.6 | 90 | 95.4 | 88.4 | 77.9 | 82.9 | 89.6 | 93.8 |
| SIAE | 120.2 | 131.4 | 91.8 | 88 | 78.9 | 95.7 | 111.2 | 132 |
| SIAH1 | 124.2 | 136 | 91 | 88.8 | 92.1 | 102 | 120.8 | 112.5 |
| SIAH1 | 105.4 | 103.8 | 96.7 | 85.1 | 94.1 | 89.5 | 94.9 | 103.5 |
| SIAH1 | 588.5 | 748.8 | 381.5 | 423.3 | 364.6 | 512.1 | 524.1 | 709 |
| SIAH2 | 286.4 | 401.9 | 229.2 | 169.2 | 160.8 | 211 | 246.5 | 399.2 |
| SIAHBP1 | 8810 | 10689 | 6548.8 | 3316.3 | 2993.2 | 3486.7 | 8123.5 | 6605.7 |
| SIDT1 | 97 | 101.7 | 95.9 | 90 | 84.3 | 92.8 | 78.9 | 82 |
| SIDT2 | 678.1 | 824.3 | 561.3 | 485.7 | 398.2 | 530 | 379.3 | 464.6 |
| SIGIRR | 235.3 | 246.8 | 125.5 | 99.8 | 122.4 | 134.5 | 210.6 | 268.2 |
| SIGIRR | 186.1 | 264.8 | 147.8 | 161.8 | 161.8 | 141.2 | 172 | 160.2 |
| SIGLEC10 | 169.4 | 207.3 | 127.8 | 120 | 117.4 | 127.8 | 141.7 | 135.1 |
| SIGLEC11 | 131.6 | 126.5 | 94 | 93.8 | 85.6 | 88.3 | 132.1 | 132.2 |
| SIGLEC12 | 118.1 | 144.6 | 108.1 | 118.2 | 97.1 | 98 | 126.7 | 119.6 |
| SIGLEC12 | 154 | 180.2 | 115.9 | 104.8 | 90.5 | 95.7 | 122.8 | 174.8 |
| SIGLEC12 | 93.1 | 117.3 | 83.7 | 77.9 | 85.9 | 83.9 | 99.5 | 115.3 |
| SIGLEC5 | 104.3 | 110.9 | 105.6 | 104.8 | 83.8 | 97.8 | 100.3 | 116.6 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| SIGLEC6 | 165.7 | 229.9 | 167.7 | 107.1 | 92.4 | 103.6 | 154.5 | 161.4 |
| SIGLEC7 | 108.2 | 124.8 | 111.2 | 107.7 | 86.2 | 130.6 | 105 | 135.6 |
| SIGLEC7 | 83.3 | 92.4 | 89.6 | 88.9 | 75.6 | 97.2 | 79.6 | 92.7 |
| SIGLEC7 | 108.2 | 127.4 | 98.1 | 88.3 | 83.7 | 111.1 | 99.3 | 124.7 |
| SIGLEC8 | 134.6 | 142 | 88.8 | 81.5 | 83.9 | 90 | 126 | 140.6 |
| SIGLEC9 | 97.6 | 101.2 | 91.4 | 87.6 | 87.1 | 86.7 | 81.9 | 112 |
| SIGLECP16 | 206.5 | 243.3 | 175.3 | 163.5 | 137.8 | 163.3 | 147.4 | 164.7 |
| SIGLECP3 | 172.9 | 237.2 | 102.8 | 100.6 | 83.3 | 105.6 | 151.7 | 162.3 |
| SIGLECP3 | 151.1 | 166.3 | 135 | 140.1 | 128.2 | 149.1 | 134.5 | 154.3 |
| SIKE | 240.3 | 337.2 | 138.8 | 109.1 | 107.8 | 112.8 | 187.3 | 267.4 |
| SIL1 | 390 | 534.4 | 245.5 | 341 | 299.1 | 425.2 | 421.4 | 379.5 |
| SIL1 | 140.9 | 170.5 | 108.8 | 108.8 | 94.9 | 96.4 | 129.2 | 134.3 |
| SIL1 | 1069.9 | 1515.2 | 584.7 | 1001.7 | 774.3 | 1035.4 | 1146.8 | 963 |
| SILV | 92 | 116.3 | 92.6 | 83.8 | 100 | 101.5 | 98.9 | 107.1 |
| SIM1 | 89 | 99.7 | 95 | 88.1 | 86.2 | 89.7 | 79.7 | 87.2 |
| SIM2 | 98.6 | 110.4 | 100.8 | 93.9 | 82.3 | 90.4 | 101.7 | 101.1 |
| SIM2 | 88 | 131.5 | 102 | 87.4 | 92 | 100.8 | 92.5 | 111.2 |
| SIN3A | 957 | 1504 | 1030.3 | 1382 | 1264.7 | 1872.2 | 957.7 | 1046.5 |
| SIN3B | 108.8 | 117.5 | 134 | 127.4 | 105.2 | 133.9 | 102.3 | 128.9 |
| SIP1 | 1024.7 | 1363.3 | 834.6 | 525.5 | 417.1 | 714.5 | 821 | 1381.7 |
| SIPA1 | 188.5 | 219.5 | 168.4 | 150.3 | 153.8 | 200 | 134.9 | 208.1 |
| SIPA1 | 1322.1 | 1624.6 | 1115.2 | 948.4 | 851.5 | 916 | 878.7 | 648 |
| SIPA1L1 | 187.3 | 231.4 | 114.6 | 89.1 | 93.4 | 106.1 | 164.3 | 195.9 |
| SIPA1L2 | 176.1 | 224.7 | 118.4 | 154.9 | 129.4 | 191.3 | 179.4 | 209.8 |
| SIPA1L3 | 155.5 | 204.1 | 127.4 | 130 | 104.2 | 125.8 | 145.8 | 190.3 |
| SIRPB1 | 217.5 | 234.2 | 193.8 | 190.6 | 139.7 | 200.8 | 190.7 | 244.2 |
| SIRPB2 | 89.2 | 110.4 | 83.3 | 79.6 | 78.2 | 79.9 | 93.2 | 95.6 |
| SIRPD | 159.4 | 237.1 | 111.4 | 105.7 | 109.2 | 106.8 | 148.4 | 163.6 |
| SIRPG | 994.4 | 1132.2 | 383.1 | 392.8 | 308 | 308.8 | 916.2 | 1172.9 |
| SIRPG | 77.4 | 84.8 | 89.1 | 96.3 | 86.8 | 95.7 | 77.8 | 80.7 |
| SIRT1 | 311 | 395.8 | 205.1 | 213.9 | 214.5 | 342.7 | 306.8 | 664.3 |
| SIRT2 | 162.5 | 220.3 | 101.6 | 95.7 | 94 | 101.6 | 148.7 | 237.4 |
| SIRT2 | 177 | 238.7 | 119.1 | 108.5 | 89.2 | 112.3 | 175.2 | 282.5 |
| SIRT3 | 107.9 | 126.1 | 99.6 | 82.6 | 83.2 | 94.9 | 105.1 | 120.3 |
| SIRT3 | 131.5 | 142 | 81.8 | 77.2 | 83 | 82.9 | 123.9 | 142.6 |
| SIRT4 | 131.9 | 152.4 | 125.1 | 126 | 106.3 | 113.7 | 144.6 | 159 |
| SIRT5 | 100.1 | 131.1 | 100.2 | 102.2 | 102.6 | 125.3 | 105.6 | 120.9 |
| SIRT5 | 122.4 | 144.2 | 106.6 | 117.1 | 101.5 | 108.3 | 127.6 | 117.4 |
| SIRT5 | 219.2 | 323.1 | 191 | 215.3 | 187.4 | 271.7 | 219.7 | 301 |
| SIRT6 | 104.2 | 126.7 | 112.5 | 92.9 | 91.4 | 112.2 | 101 | 136.7 |
| SIT1 | 90.5 | 89.1 | 96.5 | 97.4 | 90.8 | 94.7 | 91.7 | 100.4 |
| SIVA | 3496.8 | 4067.7 | 2155.1 | 1920.5 | 1862.1 | 1826.5 | 3313.7 | 3006.4 |
| SIVA | 2296.6 | 2892.7 | 1701.6 | 1174.7 | 1011 | 1477.3 | 1740.5 | 2102.1 |
| SIX1 | 100.7 | 109.5 | 89.2 | 96.3 | 84.4 | 96.8 | 102.8 | 113.9 |
| SIX2 | 100.4 | 125.7 | 102.4 | 90 | 88.8 | 91.2 | 108.7 | 127.4 |
| SIX3 | 133.3 | 149.6 | 101 | 93.8 | 98.5 | 99.9 | 136 | 162.8 |
| SIX4 | 102.1 | 127.5 | 115.6 | 110.5 | 111.8 | 108.8 | 100.6 | 98.6 |
| SIX5 | 513.2 | 598.9 | 360.4 | 259.5 | 257.8 | 264.5 | 424.6 | 407.8 |
| SIX6 | 88.1 | 91.5 | 96.3 | 76.6 | 76.4 | 89.3 | 90.4 | 89.9 |
| SKAP1 | 80.6 | 86.2 | 91.1 | 88.4 | 83.8 | 84.1 | 83.9 | 95.2 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| SKAP2 | 394.4 | 502.9 | 186.1 | 199.7 | 141.9 | 247.1 | 365.6 | 843.8 |
| SKI | 203.3 | 226 | 180.1 | 185 | 165 | 169.5 | 194.7 | 207.6 |
| SKIL | 71.6 | 86.2 | 84.9 | 80.2 | 76.8 | 81.3 | 76.9 | 82.8 |
| SKIP | 110.5 | 128.6 | 100.1 | 108.8 | 106.5 | 94.5 | 96.7 | 121.2 |
| SKIP | 69.3 | 92.8 | 87.9 | 86.2 | 81.7 | 93.1 | 76.4 | 87.9 |
| SKIV2L | 895.2 | 885.4 | 1023.1 | 1106.4 | 958.1 | 1290.5 | 687.7 | 713.5 |
| SKIV2L2 | 1359.8 | 2076.1 | 682.5 | 555 | 420.3 | 1054.6 | 1137 | 2066.6 |
| SKP1A | 1602 | 2057.4 | 1100.6 | 1080.5 | 760.5 | 1161 | 1428.2 | 2284.3 |
| SKP1A | 80.4 | 96.6 | 95.6 | 98.8 | 87.6 | 75.2 | 87.9 | 89.3 |
| SKP2 | 3268.6 | 4069.1 | 2588.7 | 3414.5 | 2064.6 | 3425.3 | 2184 | 3335.4 |
| SKP2 | 1290.7 | 1657.1 | 674.7 | 504.4 | 365.8 | 516.5 | 697.5 | 955 |
| SKP2 | 339.5 | 366.4 | 119.8 | 98.5 | 102.1 | 104.2 | 188.6 | 239.9 |
| SLA | 147.5 | 183.4 | 120.8 | 126.4 | 109.8 | 100.6 | 127.6 | 139.2 |
| SLA | 377.1 | 423.3 | 135.8 | 128.8 | 134.2 | 126.8 | 326.2 | 363.8 |
| SLA/LP | 255.9 | 343.6 | 175.5 | 165.9 | 135.3 | 180.8 | 205.6 | 282.9 |
| SLA/LP | 141.4 | 174.8 | 120.4 | 101.6 | 93.9 | 104.3 | 126.3 | 180.3 |
| SLA2 | 79.3 | 88.9 | 92 | 86.9 | 85.2 | 83.1 | 90.4 | 87.1 |
| SLA2 | 109.5 | 115.7 | 106.6 | 101.5 | 91 | 101.8 | 107.8 | 108.7 |
| SLAMF1 | 121.9 | 138.7 | 122.7 | 78.3 | 90.7 | 79.4 | 95.1 | 98.1 |
| SLAMF6 | 170.7 | 222.5 | 137.2 | 147.5 | 144.8 | 156.7 | 161.1 | 149.6 |
| SLAMF7 | 90.9 | 133.2 | 89.5 | 88 | 81.5 | 86.6 | 93.8 | 121.4 |
| SLAMF8 | 146.1 | 157.3 | 106.4 | 80.3 | 93.4 | 94.1 | 134.6 | 148.5 |
| SLAMF9 | 147.2 | 161.1 | 102 | 101.4 | 85 | 99.2 | 124.7 | 122.5 |
| SLBP | 1939.6 | 2452.9 | 553.7 | 454.1 | 348.4 | 455.2 | 1502.7 | 2560.6 |
| SLC10A1 | 75 | 83.3 | 88.3 | 85 | 85.1 | 90.9 | 83.1 | 88.6 |
| SLC10A2 | 85.9 | 94.9 | 92.7 | 86.2 | 90.5 | 84.6 | 85.9 | 83.2 |
| SLC10A3 | 645.7 | 815.2 | 426.2 | 396.3 | 330.2 | 446.7 | 645.9 | 992.4 |
| SLC10A4 | 878.3 | 1024.2 | 362.5 | 282.4 | 197 | 315.5 | 820.9 | 1652 |
| SLC10A5 | 85.4 | 100.2 | 87 | 80.1 | 74.7 | 87.8 | 82.9 | 95.8 |
| SLC10A6 | 67.2 | 92.3 | 80.5 | 80.1 | 75.9 | 83.1 | 82.5 | 86.1 |
| SLC10A7 | 78.9 | 85.7 | 105.7 | 84.3 | 84.6 | 82.4 | 87.7 | 87.1 |
| SLC11A1 | 380.2 | 472 | 312.7 | 251.3 | 177.6 | 220 | 263.2 | 264.5 |
| SLC11A1 | 83.7 | 90.5 | 98.4 | 91.8 | 87.8 | 93.9 | 83.7 | 86.7 |
| SLC11A2 | 264.2 | 330.1 | 221.2 | 346.2 | 338.4 | 506.6 | 231.2 | 326.1 |
| SLC12A1 | 89.4 | 101.1 | 99.3 | 101 | 92.5 | 90.8 | 89.5 | 92.6 |
| SLC12A2 | 145 | 162.8 | 114.5 | 125.3 | 123.6 | 131.5 | 142.3 | 185.1 |
| SLC12A3 | 89.7 | 94.4 | 82.5 | 78.6 | 72.2 | 98.1 | 75.6 | 96.6 |
| SLC12A4 | 149.1 | 189.9 | 109.7 | 94.4 | 95.3 | 103.5 | 127.9 | 171.2 |
| SLC12A5 | 81.6 | 99.4 | 92.6 | 94.7 | 88.8 | 89.9 | 90.6 | 100.5 |
| SLC12A6 | 117.2 | 145.3 | 96.8 | 91.2 | 92.6 | 100.8 | 121.4 | 149.6 |
| SLC12A6 | 94.7 | 129.6 | 92.2 | 76.4 | 78.8 | 85.2 | 95.6 | 96.2 |
| SLC12A7 | 101.1 | 100.1 | 94.8 | 92.3 | 85.9 | 98.9 | 103.5 | 96.4 |
| SLC12A8 | 115.7 | 128.2 | 106 | 102.2 | 91.8 | 99.7 | 131.8 | 163.2 |
| SLC12A9 | 2478.7 | 2593.9 | 1772.6 | 1410.7 | 1164.8 | 1485.1 | 1651.5 | 1329.2 |
| SLC13A1 | 93.6 | 100.3 | 92.9 | 90 | 84.4 | 84.5 | 85.8 | 95.3 |
| SLC13A2 | 100 | 121.2 | 93.5 | 87.4 | 81.4 | 95.1 | 104 | 119.5 |
| SLC13A3 | 168.3 | 185.9 | 145 | 140.1 | 148.1 | 137.2 | 154 | 196.2 |
| SLC13A3 | 88.3 | 91.2 | 89.8 | 82.9 | 77.6 | 83.8 | 86.5 | 92.5 |
| SLC13A3 | 81.4 | 93.3 | 101.7 | 97.5 | 98.1 | 85.2 | 85.3 | 86.2 |
| SLC13A4 | 93.1 | 100 | 106.7 | 113.7 | 91.4 | 88.6 | 89.7 | 97.7 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| SLC13A5 | 98.2 | 133 | 93.9 | 76 | 81.3 | 97.3 | 105.1 | 123.9 |
| SLC14A1 | 100.8 | 100.3 | 81.2 | 89.2 | 91.1 | 80.9 | 91.2 | 101.7 |
| SLC14A2 | 95.9 | 104.1 | 109.9 | 102.8 | 103.1 | 102.7 | 88.3 | 94.9 |
| SLC15A1 | 118.2 | 119 | 81.6 | 87.1 | 81.1 | 83.4 | 101.9 | 112.9 |
| SLC15A2 | 123.8 | 126.2 | 132.9 | 155.5 | 144.3 | 199.6 | 104.9 | 115.3 |
| SLC15A3 | 836.1 | 1080.9 | 562.4 | 1267.1 | 833 | 1153.3 | 781.7 | 686.1 |
| SLC15A4 | 671.2 | 806.4 | 359.2 | 552.1 | 462.9 | 745.5 | 568.7 | 862.8 |
| SLC16A1 | 113.2 | 139.5 | 97.2 | 94.6 | 80.2 | 86.8 | 112.7 | 120.1 |
| SLC16A10 | 550.8 | 739.1 | 314.8 | 207.2 | 152 | 233.3 | 352.1 | 533.3 |
| SLC16A11 | 95.1 | 96.6 | 98 | 103.5 | 84.4 | 97.5 | 97.9 | 99.5 |
| SLC16A12 | 7699.6 | 9463.8 | 3156.3 | 5318.6 | 5586.3 | 3704 | 7200 | 8306.9 |
| SLC16A13 | 91 | 122.3 | 105.8 | 96.5 | 96.5 | 89.2 | 106.4 | 113.5 |
| SLC16A14 | 90.8 | 93.9 | 87.3 | 92.5 | 88.4 | 97.5 | 81.7 | 86 |
| SLC16A2 | 108.5 | 153.4 | 117.3 | 117.7 | 108.1 | 134 | 117.6 | 144.7 |
| SLC16A3 | 4706.7 | 5910.5 | 2290.5 | 2235.9 | 1799.3 | 2402.6 | 5370.1 | 6537.9 |
| SLC16A4 | 108.3 | 109.1 | 78.7 | 76.3 | 80.9 | 77.7 | 82.2 | 115.8 |
| SLC16A5 | 315.9 | 438.7 | 272.2 | 263.7 | 270.4 | 278.2 | 243.6 | 262.3 |
| SLC16A6 | 91 | 99.7 | 96.8 | 102.3 | 95.8 | 102.5 | 90.8 | 89.3 |
| SLC16A7 | 105.4 | 124.8 | 92.2 | 97.8 | 89.4 | 96.3 | 104.9 | 114.1 |
| SLC16A8 | 81.6 | 94.5 | 90 | 79.5 | 74.8 | 90.4 | 83.1 | 98.5 |
| SLC16A9 | 290.4 | 297 | 213.8 | 168.8 | 147 | 179 | 231.1 | 348.3 |
| SLC17A1 | 109.2 | 136.9 | 83 | 88.2 | 76.6 | 77.2 | 106.1 | 136.4 |
| SLC17A2 | 96.2 | 110.2 | 91.5 | 88.4 | 83.1 | 78.1 | 91.7 | 98.7 |
| SLC17A3 | 107.7 | 116.8 | 112.3 | 108.5 | 105.9 | 108.2 | 111.1 | 111.7 |
| SLC17A4 | 76.5 | 90.2 | 91.1 | 80.6 | 92.1 | 86.7 | 82.4 | 95.6 |
| SLC17A5 | 121.6 | 126.7 | 102.8 | 89.7 | 92.4 | 89.5 | 114 | 112.9 |
| SLC17A6 | 83.9 | 85.3 | 94 | 86.4 | 81.9 | 85.5 | 84.7 | 97.2 |
| SLC17A7 | 115.4 | 127.2 | 104.9 | 96.6 | 100.3 | 95.2 | 114.1 | 119.6 |
| SLC17A8 | 72.8 | 91.5 | 91.1 | 84.4 | 83.4 | 80.9 | 83.6 | 85.6 |
| SLC18A1 | 100.3 | 115.7 | 114 | 109.4 | 107.5 | 100 | 95.3 | 104.4 |
| SLC18A2 | 78 | 81.4 | 84.7 | 78.2 | 80.5 | 90.8 | 70.3 | 78.1 |
| SLC18A3 | 80.2 | 98.3 | 85.9 | 86.4 | 80.1 | 81 | 82.6 | 91.5 |
| SLC19A1 | 371.2 | 465.1 | 263.9 | 259 | 191.1 | 195.4 | 274.6 | 562.6 |
| SLC19A2 | 102.7 | 124.8 | 117.7 | 112.2 | 102.4 | 107.9 | 103.5 | 121.5 |
| SLC19A3 | 89.5 | 105.5 | 86.5 | 84.1 | 86.6 | 95.4 | 88.4 | 90.2 |
| SLC1A1 | 99.5 | 124.5 | 122.1 | 113.1 | 102.1 | 106.4 | 96.8 | 98.1 |
| SLC1A2 | 98.7 | 130.7 | 94.4 | 84 | 81.9 | 82.6 | 101 | 118.2 |
| SLC1A3 | 374.1 | 463.8 | 207.4 | 367.1 | 285.3 | 450.2 | 213.3 | 229.5 |
| SLC1A4 | 201.3 | 270 | 230.1 | 195.9 | 186.6 | 204.1 | 222.7 | 353.3 |
| SLC1A5 | 737.8 | 883.4 | 580.3 | 444.7 | 304.3 | 452.1 | 686.2 | 1530.4 |
| SLC1A6 | 84.9 | 102.2 | 89.3 | 78.5 | 83.6 | 76.1 | 85.7 | 85.6 |
| SLC1A7 | 129.9 | 139.2 | 93.2 | 94 | 100.8 | 108.8 | 123.4 | 141.6 |
| SLC20A1 | 1941 | 2382.6 | 1967 | 1538.9 | 1062.8 | 2016.9 | 1485.7 | 2760.2 |
| SLC20A2 | 451 | 570.8 | 422.3 | 344 | 239.1 | 387.8 | 448.6 | 498.1 |
| SLC22A1 | 135.7 | 136.2 | 99.1 | 107.7 | 87 | 93.2 | 114.7 | 121.1 |
| SLC22A1 | 96.4 | 111.5 | 85.5 | 80.3 | 90 | 80 | 109.4 | 120.4 |
| SLC22A10 | 105.5 | 129.8 | 83.7 | 89.4 | 82.7 | 88.4 | 111.9 | 108.4 |
| SLC22A11 | 94.5 | 103 | 91.2 | 92.4 | 85.4 | 83.2 | 102 | 97.7 |
| SLC22A12 | 106.2 | 117.8 | 94.7 | 88.2 | 90.6 | 91.1 | 119.8 | 126 |
| SLC22A12 | 79 | 96.3 | 99.2 | 99 | 83.3 | 87.5 | 89.3 | 81.3 |

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| SLC22A12 | 84.6 | 99.6 | 105.5 | 84.4 | 78.6 | 86.3 | 85.2 | 94.1 |
| SLC22A13 | 94.8 | 98.3 | 96.8 | 96.6 | 93.3 | 93.5 | 93.5 | 92 |
| SLC22A14 | 84.2 | 89 | 103.1 | 91 | 87.7 | 101.5 | 88.8 | 85 |
| SLC22A15 | 1272 | 1442.8 | 972.1 | 530.8 | 422.7 | 909.8 | 957.1 | 1572 |
| SLC22A16 | 2837 | 3498.3 | 1484.3 | 1517.6 | 1239.2 | 1674.1 | 2497.2 | 3102.4 |
| SLC22A17 | 84.8 | 93.3 | 102.3 | 85.2 | 88.1 | 88.9 | 86 | 92.4 |
| SLC22A17 | 170.6 | 208.1 | 132.2 | 132.9 | 104.4 | 138.6 | 166.6 | 289.5 |
| SLC22A18 | 162.4 | 218.9 | 143.2 | 108.5 | 100 | 101.3 | 173.3 | 171.2 |
| SLC22A18 | 332.9 | 441.7 | 475.6 | 462.2 | 385.8 | 466.4 | 370.7 | 617.2 |
| SLC22A18A | 169.9 | 202.8 | 167 | 147.9 | 126.9 | 187 | 157.2 | 200.2 |
| SLC22A2 | 85.4 | 97.8 | 104.7 | 84.3 | 97.4 | 93.6 | 87.3 | 95.7 |
| SLC22A2 | 86.9 | 95.2 | 88.6 | 75.4 | 83 | 82.8 | 91.5 | 97.9 |
| SLC22A3 | 87.4 | 111.6 | 103.7 | 89 | 86.6 | 87.9 | 87.6 | 88.4 |
| SLC22A4 | 360 | 387.8 | 210.8 | 324.9 | 236.1 | 333.9 | 294.6 | 419.3 |
| SLC22A5 | 353.4 | 451.2 | 276 | 295.2 | 193.4 | 327.9 | 271.6 | 379.7 |
| SLC22A6 | 111.6 | 143.1 | 119.9 | 99.4 | 93 | 106.9 | 102.3 | 114.8 |
| SLC22A6 | 80.3 | 79 | 92.5 | 76.2 | 76 | 77.3 | 82.9 | 94.1 |
| SLC22A7 | 79.9 | 92.3 | 92 | 79.8 | 78.8 | 83.8 | 78.8 | 87.9 |
| SLC22A7 | 91.5 | 106.6 | 107.4 | 95.7 | 95.9 | 100.6 | 97.5 | 96.3 |
| SLC22A8 | 79.6 | 89.3 | 83.8 | 86.6 | 84 | 83.4 | 77.7 | 97 |
| SLC22A9 | 81.1 | 89.7 | 91.7 | 84.8 | 79.7 | 82.4 | 81.4 | 89 |
| SLC23A1 | 114.9 | 144.7 | 103.5 | 90.1 | 100.4 | 90.1 | 113.5 | 125.8 |
| SLC23A1 | 145.8 | 172.7 | 112.8 | 94.8 | 90.2 | 104.1 | 146.2 | 153.1 |
| SLC23A2 | 106.2 | 127.5 | 92 | 77.2 | 84.4 | 85.1 | 94.7 | 111.1 |
| SLC23A2 | 155.1 | 183.1 | 161.4 | 182.8 | 195.7 | 290.8 | 157.1 | 206.3 |
| SLC23A2 | 94.9 | 110.3 | 88.6 | 84.7 | 88.7 | 83.5 | 87.2 | 102.3 |
| SLC23A3 | 96.2 | 116.5 | 102.5 | 94.8 | 97.6 | 99.1 | 96.4 | 107.1 |
| SLC24A1 | 169.5 | 197 | 113.4 | 143.8 | 121.9 | 147.5 | 147.6 | 157 |
| SLC24A2 | 95.4 | 107.1 | 102.5 | 92.9 | 82.1 | 89.7 | 96.8 | 95 |
| SLC24A3 | 126.9 | 136.3 | 92.4 | 93.1 | 78.1 | 85.6 | 108.3 | 127.7 |
| SLC24A4 | 107.2 | 107.2 | 106.7 | 95.2 | 104.6 | 104.8 | 104.3 | 129.3 |
| SLC24A4 | 116 | 141.9 | 112.5 | 119.3 | 112.4 | 121.7 | 105.8 | 121.9 |
| SLC24A4 | 116.3 | 139.6 | 119.1 | 119.3 | 125.4 | 123.7 | 117.6 | 116.5 |
| SLC24A5 | 88.8 | 92.5 | 87.8 | 87.3 | 85.7 | 91 | 92.9 | 103.3 |
| SLC24A6 | 467.1 | 608.5 | 344.8 | 403.5 | 290.1 | 345.4 | 448.3 | 447.5 |
| SLC25A1 | 1634.7 | 2238.4 | 2132.8 | 1282.5 | 1056.3 | 1471.6 | 1425.5 | 2384.3 |
| SLC25A10 | 906.8 | 1141 | 412.1 | 348.4 | 324.6 | 475.4 | 709.4 | 385.6 |
| SLC25A11 | 280.5 | 368 | 141.2 | 133.5 | 104.9 | 136.2 | 251.6 | 292.9 |
| SLC25A12 | 243.3 | 283.7 | 191.8 | 172.1 | 129.5 | 205 | 176.2 | 284.9 |
| SLC25A13 | 517.3 | 604.4 | 230 | 301.2 | 239 | 417 | 428.2 | 729 |
| SLC25A14 | 399.4 | 468.4 | 164.5 | 161.5 | 158.3 | 198.5 | 339.4 | 344.5 |
| SLC25A14 | 261.4 | 292.8 | 186.5 | 143.9 | 128.5 | 144.8 | 207.8 | 230.8 |
| SLC25A15 | 375.3 | 463.2 | 237 | 246.1 | 192 | 204.6 | 266.4 | 354.8 |
| SLC25A16 | 99.9 | 107.1 | 91.8 | 91.4 | 86 | 105.2 | 91.1 | 107.6 |
| SLC25A17 | 264.2 | 376.4 | 208.7 | 216.7 | 165.4 | 228 | 251.7 | 315.3 |
| SLC25A18 | 84.3 | 100.5 | 98 | 101.6 | 100.8 | 94.8 | 87.5 | 91.6 |
| SLC25A19 | 1785.3 | 2308.7 | 876.7 | 934.8 | 823.4 | 873.9 | 1509.1 | 849.9 |
| SLC25A2 | 102 | 115.4 | 97.3 | 87.4 | 79.4 | 79.6 | 88.5 | 102.9 |
| SLC25A20 | 279.5 | 403.8 | 134.7 | 107 | 100.2 | 104.9 | 263.8 | 338.3 |
| SLC25A21 | 74.1 | 85.1 | 89.3 | 88.2 | 85.4 | 81.7 | 76.1 | 76.4 |

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| SLC25A22 | 682.9 | 838.2 | 558.6 | 329.3 | 269.7 | 297.8 | 422.2 | 321 |
| SLC25A23 | 2410.5 | 2962 | 2215.9 | 1602.5 | 1225.1 | 1405 | 2202.1 | 2985.9 |
| SLC25A24 | 100.8 | 129.9 | 86.4 | 83.9 | 76.6 | 85.7 | 111.4 | 118.1 |
| SLC25A24 | 130.9 | 166.7 | 117.9 | 92.8 | 88.3 | 92.1 | 135.1 | 141.4 |
| SLC25A24 | 637.5 | 881.9 | 284.8 | 188 | 179 | 254.2 | 455.5 | 674 |
| SLC25A25 | 244.6 | 306.8 | 219.5 | 221.3 | 208.4 | 230.3 | 261.1 | 398.6 |
| SLC25A25 | 78.4 | 99.8 | 89.9 | 91.8 | 78.9 | 88.2 | 88.7 | 99.9 |
| SLC25A25 | 96.9 | 112.9 | 93.2 | 86.6 | 80.6 | 89.3 | 102.3 | 110.2 |
| SLC25A25 | 132.2 | 127.5 | 107.9 | 102 | 101.1 | 98.9 | 129 | 154.3 |
| SLC25A26 | 384.2 | 536.5 | 244.4 | 210.3 | 193.1 | 241.3 | 361.3 | 423.8 |
| SLC25A26 | 178.3 | 235.6 | 122.1 | 119.6 | 119.2 | 145.2 | 149.9 | 186.6 |
| SLC25A26 | 389 | 492.3 | 230.8 | 172.9 | 131.6 | 150.3 | 327.2 | 371 |
| SLC25A27 | 148.5 | 188.8 | 105 | 95.3 | 96.1 | 112.8 | 128.7 | 173.2 |
| SLC25A28 | 1682.1 | 2005.4 | 748.5 | 578.8 | 546.6 | 734.1 | 1288.5 | 1272.4 |
| SLC25A29 | 122.6 | 135.9 | 122.3 | 117.8 | 101.5 | 134.6 | 125.6 | 185.5 |
| SLC25A29 | 140.9 | 164.9 | 142.9 | 124.1 | 124.8 | 173.4 | 138.2 | 184.4 |
| SLC25A3 | 10281.4 | 11792.9 | 5848 | 4637.9 | 2887.5 | 4288.8 | 9663.1 | 15588.7 |
| SLC25A3 | 229.1 | 284.1 | 116.6 | 101.9 | 88.2 | 95.4 | 188.3 | 236 |
| SLC25A30 | 130 | 152.7 | 105.7 | 100.2 | 97.1 | 93.4 | 113.9 | 116.1 |
| SLC25A31 | 102.9 | 104.9 | 100.3 | 86.1 | 86.8 | 75.8 | 100.1 | 125.7 |
| SLC25A32 | 95.6 | 108.4 | 99.6 | 81.9 | 82.3 | 94.8 | 93.8 | 117.5 |
| SLC25A34 | 135.2 | 127.3 | 105.1 | 101.5 | 97.4 | 98 | 105.9 | 110.7 |
| SLC25A35 | 99.7 | 107.8 | 116.6 | 108.5 | 121.1 | 124.3 | 100.7 | 112.2 |
| SLC25A36 | 432.6 | 614.8 | 282.1 | 381.8 | 287.4 | 281.6 | 385.5 | 554.3 |
| SLC25A37 | 551.4 | 663.5 | 513.7 | 426.6 | 412.8 | 625.1 | 482.1 | 930.8 |
| SLC25A4 | 904.3 | 1143.7 | 763.4 | 536.8 | 413.6 | 667.2 | 623.2 | 1056.7 |
| SLC25A40 | 781.8 | 1004.9 | 448.5 | 486.2 | 367.3 | 607.6 | 591.3 | 898.7 |
| SLC25A42 | 577.7 | 740.6 | 511.3 | 423 | 383.3 | 415.9 | 490.4 | 449.1 |
| SLC25A43 | 1640.2 | 2165.5 | 948.6 | 1011.9 | 811.3 | 1317.9 | 1429 | 1599.7 |
| SLC25A45 | 83.8 | 90.3 | 89.3 | 84.7 | 83.5 | 88.2 | 82.6 | 81.3 |
| SLC25A5 | 20192 | 24572.4 | 15949.3 | 12964.1 | 10101.9 | 14900.5 | 20225.7 | 23670.6 |
| SLC26A1 | 133.1 | 148.8 | 105.9 | 102.3 | 84.5 | 90.7 | 126.5 | 156.6 |
| SLC26A1 | 103.4 | 103.4 | 89.3 | 90.4 | 92.1 | 88.3 | 98.5 | 95.3 |
| SLC26A1 | 85.7 | 92.4 | 97.9 | 90 | 84.9 | 90.2 | 85.6 | 84.2 |
| SLC26A10 | 95.5 | 103.5 | 98.3 | 93.1 | 83.1 | 93.1 | 104.5 | 116.5 |
| SLC26A11 | 85.2 | 90.8 | 93.9 | 76.9 | 84.2 | 92.9 | 82.5 | 88.6 |
| SLC26A11 | 85.5 | 116 | 95.4 | 88.1 | 93 | 89.3 | 89.3 | 105.7 |
| SLC26A2 | 200.3 | 241.2 | 108.7 | 105.3 | 101.6 | 111.5 | 172.4 | 210.5 |
| SLC26A3 | 81 | 86.7 | 85.1 | 90.3 | 75.7 | 95.7 | 78.3 | 90.3 |
| SLC26A4 | 99.9 | 117.7 | 87.2 | 84.6 | 76.2 | 93.2 | 102.9 | 105.7 |
| SLC26A5 | 73.7 | 81.1 | 85.8 | 75.3 | 83.5 | 82.7 | 81.6 | 78.3 |
| SLC26A5 | 93.7 | 112.5 | 99.7 | 90.3 | 94.1 | 96.3 | 98 | 106.4 |
| SLC26A5 | 90.1 | 109.5 | 113 | 98.6 | 100.8 | 89.5 | 95.3 | 100 |
| SLC26A6 | 916.4 | 1071.8 | 514 | 455.7 | 485.5 | 539.4 | 758.5 | 607.3 |
| SLC26A6 | 116.3 | 149 | 93.4 | 88.1 | 74.7 | 85.9 | 117.3 | 140.5 |
| SLC26A6 | 179.7 | 192.9 | 117.6 | 100.6 | 101.5 | 119 | 153.9 | 195.4 |
| SLC26A7 | 84.8 | 93.1 | 76.2 | 82.4 | 77.7 | 81.5 | 81.3 | 99.4 |
| SLC26A7 | 82.1 | 89.2 | 103.4 | 94.8 | 91.5 | 89.7 | 79.8 | 91.2 |
| SLC26A8 | 86.1 | 117 | 98.3 | 92.8 | 86.7 | 86.3 | 91.6 | 97.6 |
| SLC26A8 | 82.6 | 89.9 | 81.2 | 87.1 | 89.6 | 78.5 | 80.4 | 84.1 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| SLC26A9 | 109.6 | 118.8 | 85.2 | 69.9 | 69.6 | 81.3 | 104.7 | 117.7 |
| SLC26A9 | 137.6 | 132.1 | 92.8 | 90.9 | 83.6 | 101.8 | 129.8 | 173.9 |
| SLC26A9 | 98.7 | 104.1 | 95.3 | 89.9 | 95.2 | 92.4 | 98 | 101.8 |
| SLC27A1 | 189.8 | 206.5 | 202.7 | 231.4 | 208.1 | 262.7 | 165.2 | 203.4 |
| SLC27A2 | 718.1 | 928.1 | 416.1 | 362 | 277.7 | 373.4 | 524.9 | 663.3 |
| SLC27A3 | 442.4 | 498.8 | 244.3 | 252.9 | 261.1 | 261.9 | 327.9 | 283.7 |
| SLC27A4 | 119.5 | 145.4 | 83.2 | 82.4 | 79.3 | 72.2 | 98.7 | 154.7 |
| SLC27A5 | 305.3 | 353.2 | 217.6 | 112.9 | 103.2 | 119.2 | 231.8 | 279.9 |
| SLC27A6 | 112.4 | 134 | 101.3 | 97.6 | 97.8 | 111.6 | 117.1 | 142 |
| SLC27A6 | 99.8 | 103 | 96.5 | 83.7 | 73 | 76.3 | 93.7 | 116.9 |
| SLC28A1 | 78.2 | 89 | 83.3 | 85.7 | 79 | 74.2 | 76.2 | 79.5 |
| SLC28A1 | 121 | 143.3 | 94.2 | 75.9 | 82.1 | 87.5 | 103.5 | 147.1 |
| SLC28A1 | 115.4 | 131.4 | 100.6 | 90.3 | 83.4 | 93 | 117.8 | 123.4 |
| SLC28A3 | 80.8 | 81.5 | 97.3 | 87.5 | 85.2 | 89.6 | 84.5 | 89.7 |
| SLC29A1 | 104.4 | 114.2 | 109.3 | 95.4 | 88.1 | 82.1 | 111.6 | 116.3 |
| SLC29A1 | 775.5 | 1090.4 | 905.7 | 685.5 | 578.3 | 1090.9 | 575.8 | 795.2 |
| SLC29A1 | 565.3 | 774.3 | 531.1 | 484.1 | 366.7 | 653.9 | 379.9 | 706.2 |
| SLC29A2 | 173.9 | 189.9 | 131.8 | 113.5 | 120.8 | 133.9 | 145.9 | 192.8 |
| SLC29A3 | 188.2 | 213 | 170.2 | 146.8 | 109.8 | 134.4 | 210.8 | 306.6 |
| SLC29A4 | 92.2 | 106.4 | 110.1 | 120 | 102.9 | 106.7 | 90.9 | 104.5 |
| SLC2A1 | 1515.6 | 2042.7 | 854.3 | 791 | 709.6 | 1110.5 | 1432.9 | 1426.1 |
| SLC2A10 | 193.5 | 226.5 | 183.4 | 234.5 | 189.4 | 283.6 | 190 | 270.9 |
| SLC2A11 | 83.4 | 88.2 | 99.5 | 96.8 | 95.3 | 99.7 | 78.2 | 90.3 |
| SLC2A11 | 130.9 | 121.4 | 117.4 | 119 | 109.7 | 124.8 | 107.2 | 113.6 |
| SLC2A11 | 154.9 | 214.9 | 127.6 | 115.7 | 123.5 | 129.2 | 146.7 | 172.1 |
| SLC2A12 | 93.3 | 88.9 | 79 | 85.8 | 85.1 | 84.4 | 93.9 | 108.4 |
| SLC2A13 | 83.8 | 96 | 91.1 | 99.6 | 90.1 | 100 | 81.6 | 94.3 |
| SLC2A14 | 110 | 125.5 | 99.9 | 103 | 97 | 98 | 104 | 105.8 |
| SLC2A2 | 83 | 91.9 | 100.6 | 87.5 | 86.3 | 90.5 | 78.8 | 86.4 |
| SLC2A3 | 485.3 | 566.6 | 313.8 | 309 | 295.5 | 402.8 | 465.8 | 729.7 |
| SLC2A4 | 101.8 | 133.9 | 96.4 | 87.1 | 87.5 | 85.6 | 104.7 | 117 |
| SLC2A4RG | 964.5 | 1167.1 | 459.6 | 391.3 | 357.9 | 403.5 | 811.1 | 678.8 |
| SLC2A5 | 2336 | 2872.5 | 2087.6 | 1845.6 | 2047.6 | 2402 | 1660 | 2247.1 |
| SLC2A6 | 969.1 | 1261.5 | 587.9 | 628.3 | 772.1 | 435 | 833.9 | 807 |
| SLC2A7 | 75.6 | 79 | 95.1 | 95.8 | 92 | 95 | 76.3 | 81.5 |
| SLC2A8 | 757.4 | 990 | 479.4 | 492.8 | 429.9 | 482.7 | 757.1 | 634.3 |
| SLC2A9 | 96.9 | 134.4 | 91.6 | 84.5 | 80.6 | 90.4 | 105.6 | 155.6 |
| SLC2A9 | 144.6 | 193 | 113.1 | 102.8 | 92.6 | 83.4 | 147.2 | 148.4 |
| SLC2A9 | 809.9 | 1012 | 637.1 | 524.3 | 545.2 | 732.8 | 577.9 | 815.9 |
| SLC30A1 | 206.6 | 244.4 | 135.3 | 118.8 | 111.7 | 152 | 265.9 | 471.3 |
| SLC30A10 | 85.6 | 107.1 | 95.3 | 94.7 | 85.4 | 88.6 | 90.8 | 85.1 |
| SLC30A2 | 87.8 | 89.4 | 90.8 | 81.7 | 77.6 | 86.8 | 86.8 | 97.5 |
| SLC30A2 | 76.3 | 76.4 | 103 | 104.1 | 88.1 | 92.8 | 74.4 | 82.8 |
| SLC30A3 | 424.8 | 558 | 297.1 | 124.8 | 115.2 | 119.4 | 397.3 | 417 |
| SLC30A4 | 71.2 | 71.6 | 107.5 | 91.9 | 89.7 | 80.1 | 79.7 | 78.7 |
| SLC30A5 | 1444.8 | 1933.3 | 942.5 | 973.9 | 653.1 | 840.5 | 1141.7 | 1781.7 |
| SLC30A5 | 139.2 | 146.9 | 116.5 | 127.2 | 99.1 | 148 | 139.5 | 236.7 |
| SLC30A5 | 104.8 | 116.3 | 98.2 | 101.3 | 86.8 | 102.5 | 110.9 | 109.3 |
| SLC30A6 | 95.3 | 105.8 | 88.6 | 92.1 | 82.3 | 94.5 | 112.3 | 94.7 |
| SLC30A7 | 1345.1 | 1709.6 | 693.6 | 617.5 | 506.2 | 742.3 | 1226.9 | 1704.4 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| SLC30A8 | 95.6 | 100.1 | 99.6 | 96.4 | 91.2 | 94.5 | 88.3 | 92.8 |
| SLC30A9 | 1436.1 | 1720.6 | 763.8 | 764.2 | 509.1 | 1132.2 | 1362.8 | 2172.1 |
| SLC31A2 | 324.5 | 397.7 | 263 | 332.8 | 286.1 | 383.5 | 314.2 | 448.1 |
| SLC32A1 | 78 | 75.2 | 94.4 | 90.2 | 81.5 | 86.5 | 71.6 | 78.6 |
| SLC33A1 | 314.4 | 362.3 | 134.1 | 113.3 | 102.7 | 207.5 | 280 | 531.9 |
| SLC34A1 | 126.2 | 158.6 | 85 | 84.8 | 82.4 | 88.6 | 133.2 | 139.5 |
| SLC34A2 | 109.6 | 123.7 | 100.8 | 97.4 | 84 | 94.2 | 113.4 | 120.3 |
| SLC34A3 | 91.5 | 93.8 | 101.6 | 84.1 | 89.2 | 82.4 | 85.9 | 86.8 |
| SLC35A1 | 2483.9 | 2804.1 | 1354.5 | 1790.6 | 1496.5 | 2621.8 | 2059.1 | 2966.7 |
| SLC35A2 | 897.6 | 1116.1 | 761.5 | 592 | 484.5 | 708.7 | 890.6 | 1248.8 |
| SLC35A2 | 138.3 | 152.2 | 130.1 | 120.9 | 110.5 | 121.2 | 135.5 | 142.1 |
| SLC35A2 | 237.2 | 272.1 | 180.9 | 191.7 | 161.1 | 172.2 | 250.9 | 348.3 |
| SLC35A2 | 142 | 178.9 | 158.5 | 141.4 | 129.7 | 166.4 | 146.4 | 193.6 |
| SLC35A3 | 1243.4 | 1558 | 585.5 | 442.8 | 377.2 | 569.1 | 821.3 | 1534.8 |
| SLC35A4 | 423.6 | 640 | 633.2 | 509.6 | 397.3 | 649.8 | 463 | 703.6 |
| SLC35A5 | 1014.8 | 1201.3 | 533.3 | 564.7 | 415.4 | 605.5 | 948 | 1272.6 |
| SLC35B1 | 3789.1 | 4889 | 3391.1 | 2870.7 | 2033.1 | 3183.9 | 3487.9 | 6141.7 |
| SLC35B2 | 948.4 | 1279.2 | 897.7 | 862.4 | 735.8 | 1269.1 | 780.4 | 1135.8 |
| SLC35B3 | 688.9 | 880.8 | 467.6 | 518.7 | 401.5 | 604.9 | 673.4 | 1088.2 |
| SLC35B4 | 195.9 | 226.1 | 169.1 | 200 | 149.4 | 217.5 | 185.5 | 285.3 |
| SLC35C1 | 172.2 | 232.1 | 169.8 | 145.7 | 110.9 | 158.2 | 161 | 250.7 |
| SLC35C2 | 233.1 | 300.6 | 157.8 | 174.9 | 144.3 | 215.9 | 209 | 273.6 |
| SLC35C2 | 424.9 | 521.8 | 249.6 | 236.5 | 196.9 | 232.2 | 356.2 | 462.2 |
| SLC35C2 | 92.7 | 104.3 | 93.3 | 88.8 | 77.6 | 80.7 | 96.2 | 96.6 |
| SLC35D1 | 124.2 | 122.6 | 121.1 | 110.6 | 100.4 | 99.5 | 102.3 | 118.3 |
| SLC35D2 | 181.5 | 232.3 | 167.4 | 162.6 | 156.7 | 209.5 | 172.6 | 271.1 |
| SLC35D3 | 125 | 143.6 | 96.8 | 92.8 | 78.4 | 84.6 | 114.3 | 123.2 |
| SLC35E1 | 1030.8 | 944.9 | 385.5 | 646.2 | 580.5 | 447.1 | 858.9 | 1296.3 |
| SLC35E2 | 96.9 | 121.2 | 107 | 100.6 | 112.8 | 107.4 | 100.4 | 102.5 |
| SLC35E3 | 448 | 489.1 | 296.3 | 379.7 | 310.9 | 379.4 | 358.2 | 552.4 |
| SLC35E4 | 90.6 | 92.9 | 102.8 | 86.7 | 89.6 | 85.1 | 93.6 | 98.9 |
| SLC35F1 | 104 | 123.1 | 116.3 | 115.1 | 92.5 | 123.6 | 109.7 | 118.6 |
| SLC35F2 | 1814.1 | 2091.6 | 939 | 727 | 514.5 | 793.9 | 1391.8 | 1773.5 |
| SLC35F3 | 80.8 | 92.5 | 89 | 80 | 80.8 | 85.8 | 86.9 | 93.2 |
| SLC35F3 | 116.9 | 123.1 | 83.8 | 83.3 | 79.8 | 76.8 | 102.6 | 117.5 |
| SLC35F4 | 81.9 | 94.7 | 94.3 | 94.5 | 88.7 | 93.7 | 83.8 | 83.2 |
| SLC35F5 | 255.7 | 327.1 | 144 | 165.4 | 131 | 190.2 | 228.1 | 463.5 |
| SLC36A1 | 275.6 | 337.2 | 184.6 | 195.2 | 140.6 | 244.3 | 278.5 | 477.5 |
| SLC36A2 | 87.3 | 87 | 86.9 | 73.2 | 81.3 | 80.7 | 84.3 | 83.7 |
| SLC36A3 | 98.7 | 88.8 | 86.6 | 83.5 | 76.5 | 80.9 | 86.7 | 81.1 |
| SLC36A4 | 918.9 | 1089.8 | 455.4 | 462.8 | 351.3 | 351.2 | 891.6 | 1764.9 |
| SLC37A1 | 181.1 | 233.8 | 136 | 117.6 | 125.7 | 116.9 | 180.4 | 214.6 |
| SLC37A2 | 77.1 | 90.7 | 89.6 | 72.7 | 76.1 | 77.4 | 89.3 | 89.1 |
| SLC37A3 | 163.9 | 210.1 | 138 | 110.9 | 112.5 | 140.1 | 157.4 | 207.1 |
| SLC37A3 | 85.4 | 94.8 | 96.8 | 90.6 | 97.3 | 99.8 | 81.8 | 97.4 |
| SLC37A4 | 1472.9 | 1900.6 | 622.2 | 421.5 | 350.9 | 441.8 | 974.4 | 801.9 |
| SLC38A1 | 344.8 | 414.8 | 113.9 | 91.3 | 96.2 | 87.4 | 209.3 | 302.2 |
| SLC38A1 | 1455.2 | 1923.9 | 690.3 | 960.6 | 664.3 | 746.4 | 1234.3 | 2176.5 |
| SLC38A2 | 754.7 | 867.3 | 348.9 | 433.9 | 409.8 | 606.2 | 758.9 | 1431 |
| SLC38A3 | 73 | 79.5 | 94.2 | 102.9 | 92.5 | 88.5 | 79.4 | 88.5 |

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| SLC38A5 | 223.3 | 278.1 | 151.4 | 114.6 | 105.1 | 138.3 | 200.4 | 237.4 |
| SLC38A6 | 276 | 373.2 | 153.8 | 157.3 | 139.3 | 179.9 | 403.5 | 504.5 |
| SLC39A1 | 1551.9 | 1829.6 | 1411.1 | 1345.5 | 1096.8 | 1483.9 | 1507.8 | 2121 |
| SLC39A10 | 262.1 | 355.7 | 169.3 | 246.6 | 181.2 | 369.3 | 216.4 | 476.7 |
| SLC39A11 | 667.6 | 836.4 | 424.9 | 517.2 | 364.2 | 662.7 | 548.2 | 920.5 |
| SLC39A12 | 93 | 107.8 | 102.7 | 91.1 | 93.8 | 90.9 | 88.7 | 99.2 |
| SLC39A13 | 145.1 | 182.1 | 110.5 | 102.3 | 98.2 | 105.3 | 132.4 | 169.9 |
| SLC39A14 | 735.1 | 1031.5 | 545.6 | 241.4 | 190.9 | 273.2 | 665.8 | 1066.7 |
| SLC39A2 | 93.4 | 110.7 | 104.7 | 87 | 94.1 | 93.6 | 96 | 108.7 |
| SLC39A3 | 815 | 1163.5 | 423.2 | 295.7 | 241.2 | 178 | 825.1 | 922 |
| SLC39A3 | 3870.3 | 4967.9 | 2978.5 | 1972.2 | 1705.3 | 1962 | 3356.8 | 3498.9 |
| SLC39A3 | 178.7 | 262.8 | 275.5 | 165.7 | 138.2 | 233.9 | 161.8 | 325.5 |
| SLC39A4 | 71.1 | 82.2 | 90.7 | 86.4 | 82.5 | 86.3 | 78.8 | 71.4 |
| SLC39A4 | 110.3 | 119 | 101.1 | 82.5 | 88.8 | 93.1 | 109.5 | 114.4 |
| SLC39A5 | 115.3 | 131.8 | 90.1 | 86.8 | 82.3 | 82.4 | 110.3 | 131.4 |
| SLC39A6 | 381.4 | 499.6 | 163.5 | 203.6 | 155.2 | 312.7 | 288.6 | 397.2 |
| SLC39A7 | 188.5 | 201.2 | 110.6 | 103.2 | 89.7 | 113.8 | 158.9 | 211 |
| SLC39A7 | 163.2 | 208.3 | 118 | 126.5 | 112 | 141.6 | 181.2 | 185 |
| SLC39A8 | 959.9 | 1090 | 413.9 | 306.5 | 231.7 | 307.9 | 786.8 | 1604 |
| SLC39A9 | 238.7 | 346.7 | 175.6 | 120 | 95.2 | 124.5 | 215.2 | 335.7 |
| SLC3A1 | 84.1 | 89.7 | 87.8 | 81.8 | 75 | 96.5 | 84.4 | 88.7 |
| SLC3A2 | 565.9 | 774.4 | 356.6 | 224.1 | 194.2 | 188.4 | 866.2 | 1242.3 |
| SLC3A2 | 287.7 | 384.3 | 120.7 | 91.2 | 95.4 | 106.6 | 287.1 | 540 |
| SLC3A2 | 928.7 | 1279.8 | 643.2 | 414.6 | 322 | 572.7 | 1407.2 | 3046.7 |
| SLC40A1 | 166.6 | 192.3 | 156.9 | 275.6 | 192.1 | 408.3 | 136 | 230 |
| SLC41A1 | 199.4 | 213.9 | 158 | 137.1 | 132.5 | 154.3 | 203.5 | 302.6 |
| SLC41A2 | 87.6 | 113.3 | 88.3 | 84.3 | 82.6 | 91.9 | 97.1 | 115.2 |
| SLC41A3 | 1112.6 | 1579.5 | 796 | 564.9 | 496.5 | 479.3 | 1070.2 | 915.9 |
| SLC41A3 | 78.3 | 86.3 | 85.3 | 75.6 | 71.6 | 73.7 | 82.8 | 88 |
| SLC41A3 | 1230.8 | 1680.1 | 436.6 | 366.4 | 284.5 | 322.9 | 1114.5 | 1107 |
| SLC43A1 | 199.1 | 181.4 | 119.4 | 95.6 | 98.2 | 103 | 134.3 | 154.9 |
| SLC43A2 | 258.6 | 343.9 | 192.7 | 255.5 | 216.8 | 290.1 | 204.9 | 177.8 |
| SLC43A3 | 1132.4 | 1857.4 | 913.3 | 743.3 | 607.1 | 1196.1 | 931.2 | 1327.5 |
| SLC43A3 | 96.3 | 97.3 | 75.2 | 83.5 | 78 | 92.8 | 88.5 | 115.7 |
| SLC43A3 | 671.2 | 858.9 | 230.1 | 262.8 | 257.8 | 321.2 | 524.4 | 886.9 |
| SLC43A3 | 249.1 | 296 | 134.7 | 124.1 | 117.7 | 110.6 | 185.6 | 283.3 |
| SLC44A1 | 4192.2 | 5077.5 | 2989.3 | 4633.6 | 3393.2 | 4799.4 | 3580.6 | 3615.1 |
| SLC44A1 | 1728.9 | 2187 | 1122 | 1585.6 | 1162.1 | 2150.5 | 1244.5 | 1818 |
| SLC44A2 | 102.9 | 121.9 | 93.4 | 106.4 | 114.2 | 102.9 | 109.4 | 121.7 |
| SLC44A3 | 120.7 | 127.5 | 105.3 | 105.9 | 100.7 | 112.6 | 116.3 | 120.8 |
| SLC44A4 | 121.1 | 137.8 | 97.5 | 97.1 | 95.2 | 100.3 | 125 | 127.3 |
| SLC44A4 | 7056 | 8211.3 | 3186.2 | 3831.7 | 4668 | 3454.3 | 6200.6 | 6071.2 |
| SLC44A4 | 92.2 | 116.9 | 84.3 | 99.1 | 91.6 | 97.2 | 97.6 | 108.6 |
| SLC44A5 | 79.2 | 88.8 | 100.3 | 92.1 | 93 | 91.7 | 87.3 | 79 |
| SLC45A1 | 115.3 | 128.5 | 113.6 | 95.1 | 100.6 | 93.4 | 123.2 | 125.5 |
| SLC45A2 | 107.4 | 148.2 | 93.3 | 92.9 | 74.9 | 84.7 | 126 | 134.4 |
| SLC45A2 | 84.4 | 99 | 100.9 | 95.4 | 77.6 | 85 | 86 | 86.4 |
| SLC45A2 | 108.8 | 149.6 | 95.6 | 85.9 | 89.7 | 90.4 | 123.7 | 129.1 |
| SLC45A3 | 210.5 | 260.1 | 210.3 | 205 | 172.1 | 232.1 | 214.7 | 316.7 |
| SLC45A4 | 165.5 | 248.9 | 243.1 | 205.6 | 179.1 | 274.7 | 186.4 | 245.1 |

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| SLC4A1 | 100.9 | 112.2 | 93.1 | 77.8 | 78.6 | 95.9 | 81.8 | 107.1 |
| SLC4A10 | 90.7 | 99.3 | 86.9 | 87.3 | 81.8 | 82.1 | 94.6 | 96.2 |
| SLC4A11 | 177.6 | 207 | 236.7 | 180.5 | 156.4 | 205.7 | 156.5 | 259.6 |
| SLC4A1AP | 305.8 | 353.9 | 130.5 | 134.9 | 116.1 | 152.5 | 294.5 | 475.2 |
| SLC4A2 | 191.5 | 231.1 | 290 | 179.4 | 173.8 | 279.4 | 185.9 | 323.5 |
| SLC4A3 | 117.6 | 135.4 | 93.3 | 98.4 | 105.4 | 126.8 | 116.1 | 142.2 |
| SLC4A3 | 120.8 | 144.8 | 96.4 | 92.2 | 79.2 | 81.9 | 119.6 | 129.7 |
| SLC4A4 | 92.5 | 99.5 | 89.6 | 82.7 | 87.6 | 89.6 | 90.5 | 91 |
| SLC4A5 | 472 | 662.5 | 272.2 | 456.5 | 551.2 | 337.8 | 445.6 | 457.3 |
| SLC4A5 | 91.5 | 103.7 | 90.8 | 85.3 | 80.1 | 88.5 | 92.8 | 94.6 |
| SLC4A5 | 88.8 | 96.7 | 107.3 | 97.4 | 96.9 | 89.1 | 96.2 | 90.7 |
| SLC4A7 | 574.3 | 733.7 | 343.4 | 442.5 | 289.7 | 583.5 | 497.7 | 680.7 |
| SLC4A8 | 99.6 | 143.7 | 100.5 | 91.8 | 110.1 | 109.2 | 122.8 | 119.3 |
| SLC4A8 | 97.3 | 108 | 91.7 | 90.1 | 84.6 | 97.5 | 93.4 | 100.1 |
| SLC4A9 | 102.6 | 124.1 | 102.2 | 83.1 | 76.7 | 82 | 95 | 104.9 |
| SLC5A1 | 83.1 | 88.3 | 91.6 | 85.8 | 93.3 | 84.1 | 74 | 93.1 |
| SLC5A10 | 125.1 | 141 | 98.1 | 95.4 | 83.4 | 90.2 | 120.7 | 127.4 |
| SLC5A10 | 87.8 | 93.2 | 104.9 | 96.4 | 88.2 | 99.9 | 86.2 | 85.6 |
| SLC5A10 | 78.8 | 92.9 | 82.9 | 80.7 | 79.2 | 75.3 | 73.8 | 78.5 |
| SLC5A10 | 110.8 | 126.3 | 91.2 | 91 | 100.5 | 97.1 | 126.4 | 119 |
| SLC5A11 | 91.2 | 84.8 | 87.6 | 90.6 | 85.7 | 80.6 | 82.9 | 89.5 |
| SLC5A12 | 85.2 | 87.3 | 95.6 | 93.2 | 84.5 | 84.1 | 85 | 88.7 |
| SLC5A12 | 96.6 | 97.8 | 82.8 | 88.5 | 73.9 | 79.5 | 102 | 115.7 |
| SLC5A12 | 93.5 | 106.3 | 84.3 | 82.3 | 74.8 | 83.8 | 93 | 100.3 |
| SLC5A2 | 93.5 | 90.1 | 95.5 | 89.7 | 84.2 | 93.6 | 87.2 | 92.9 |
| SLC5A3 | 113.2 | 129.4 | 80.8 | 92.2 | 84.3 | 85 | 108.7 | 124 |
| SLC5A4 | 105 | 89.9 | 94.6 | 89.6 | 81.5 | 82.7 | 94.1 | 97.8 |
| SLC5A5 | 91.5 | 101.1 | 92.1 | 80.2 | 88.5 | 94.5 | 103.4 | 97.1 |
| SLC5A6 | 805.9 | 964.1 | 937.5 | 521.6 | 384.1 | 695.9 | 542.6 | 1011.2 |
| SLC5A7 | 82.3 | 90 | 90.8 | 86.4 | 84.3 | 88.3 | 77.6 | 84.5 |
| SLC5A8 | 166.9 | 187.3 | 109.9 | 129.4 | 133.1 | 122.6 | 166.1 | 197.6 |
| SLC5A9 | 99.7 | 101.5 | 96.5 | 98.4 | 95.8 | 94.1 | 97.5 | 103.5 |
| SLC6A1 | 86.3 | 90.1 | 86.3 | 81 | 78.3 | 78.6 | 83.2 | 97 |
| SLC6A11 | 100.5 | 114 | 87.8 | 92.8 | 83.8 | 90.2 | 109.6 | 99.5 |
| SLC6A12 | 104 | 117.7 | 112.6 | 96.1 | 95.8 | 99.9 | 110.6 | 110.2 |
| SLC6A13 | 158.6 | 197.2 | 129.8 | 111.3 | 103 | 121.8 | 158.3 | 166.4 |
| SLC6A14 | 81.6 | 84.2 | 99.2 | 84.8 | 91.4 | 88.3 | 80.6 | 83.8 |
| SLC6A15 | 98.6 | 126.3 | 108.2 | 99.1 | 102.1 | 102.1 | 115.4 | 116.1 |
| SLC6A15 | 95.2 | 102.7 | 95.5 | 87.5 | 82.4 | 93.7 | 99.3 | 93.6 |
| SLC6A15 | 78.6 | 81.5 | 88.6 | 90.6 | 88.8 | 91.4 | 85.3 | 74.4 |
| SLC6A16 | 123 | 142.9 | 96.8 | 93.7 | 88.5 | 99.8 | 109.6 | 132.7 |
| SLC6A17 | 87.7 | 108.5 | 94.6 | 82.9 | 80.9 | 79.9 | 100.7 | 93.1 |
| SLC6A18 | 129 | 167.8 | 113.5 | 92.3 | 97.5 | 110.1 | 121.4 | 129.4 |
| SLC6A19 | 96.1 | 103.8 | 83.6 | 84.5 | 72.3 | 76 | 101.2 | 100.4 |
| SLC6A2 | 119 | 136.2 | 102.3 | 111.3 | 88.6 | 104.7 | 119.7 | 135.6 |
| SLC6A20 | 87.8 | 100.2 | 99.7 | 100.1 | 91.4 | 94 | 93.2 | 91.4 |
| SLC6A20 | 97.3 | 89.3 | 80.1 | 80.9 | 76.5 | 81.4 | 85.7 | 94.3 |
| SLC6A20 | 98.2 | 114.2 | 98.2 | 92 | 91.3 | 95.1 | 94.5 | 108.2 |
| SLC6A3 | 110.8 | 125.8 | 109.2 | 93.4 | 91 | 101.8 | 104.7 | 106 |
| SLC6A4 | 73.6 | 84.3 | 98.8 | 91.9 | 79.1 | 87.3 | 83.8 | 87.7 |

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|----------|--------|--------|--------|--------|-------|--------|--------|--------|
| SLC6A5 | 86.7 | 104.1 | 83.5 | 80.1 | 75.9 | 79.7 | 80.8 | 99.8 |
| SLC6A6 | 80.4 | 113.2 | 104 | 94.5 | 90.8 | 92.7 | 104.9 | 110.1 |
| SLC6A7 | 115.2 | 160.1 | 95 | 79.2 | 77.6 | 82.8 | 114.9 | 128.6 |
| SLC6A8 | 102.5 | 126.7 | 133.2 | 143.8 | 130.9 | 201.8 | 114.3 | 127.7 |
| SLC6A9 | 85.4 | 94 | 110.2 | 93.1 | 91.7 | 90.6 | 85.1 | 94.3 |
| SLC6A9 | 111.4 | 137.8 | 103.3 | 87.2 | 84.8 | 93 | 127.7 | 134 |
| SLC6A9 | 87.5 | 105.1 | 100.7 | 84.5 | 91.6 | 81.9 | 94.8 | 109.7 |
| SLC7A1 | 1771.6 | 2617.9 | 1137.1 | 1288.4 | 856.2 | 1291.2 | 1786.6 | 2084.2 |
| SLC7A10 | 108.6 | 129.1 | 122.3 | 125.9 | 108.6 | 125.8 | 110.7 | 112.6 |
| SLC7A11 | 106.9 | 135.2 | 111.2 | 105.1 | 103.5 | 116.8 | 290.2 | 464.2 |
| SLC7A13 | 74.1 | 92.2 | 94.7 | 77.5 | 81.8 | 82.2 | 81.3 | 82.1 |
| SLC7A14 | 89.8 | 84.6 | 97.8 | 85.6 | 75.7 | 85.2 | 80.1 | 89.7 |
| SLC7A2 | 92.6 | 101.5 | 95 | 85.6 | 77.9 | 84.2 | 95 | 99.9 |
| SLC7A2 | 82 | 103.8 | 85.5 | 89.7 | 78.6 | 77.7 | 91 | 92.7 |
| SLC7A2 | 290.2 | 437.1 | 260.4 | 147 | 108.4 | 138.1 | 242.1 | 384 |
| SLC7A3 | 79.2 | 96.7 | 96.9 | 100.7 | 89.7 | 92.8 | 90.6 | 93.5 |
| SLC7A3 | 92.8 | 110.5 | 92.6 | 89 | 68.9 | 82.8 | 88.5 | 106.5 |
| SLC7A4 | 109.4 | 115.6 | 88.1 | 88.9 | 84.8 | 91.2 | 111.8 | 110.9 |
| SLC7A5 | 2416.9 | 2880.3 | 2245.1 | 1078.3 | 652.4 | 907.7 | 2796.9 | 3378 |
| SLC7A6 | 321.8 | 403.3 | 254.7 | 185.5 | 184.5 | 230.8 | 287.5 | 422.7 |
| SLC7A6 | 324 | 442.4 | 229.3 | 147.1 | 124.9 | 174 | 292.6 | 378.1 |
| SLC7A6OS | 242.1 | 362.9 | 157.4 | 138.6 | 142.9 | 154.6 | 236.8 | 275.5 |
| SLC7A7 | 1001 | 1472.6 | 805.3 | 720.2 | 595.5 | 935.1 | 826.8 | 1314.4 |
| SLC7A8 | 81.4 | 96.7 | 86.4 | 85.8 | 76.7 | 80.9 | 86.3 | 109.2 |
| SLC7A8 | 98.3 | 97.1 | 102.7 | 96.3 | 98.6 | 100.3 | 96.4 | 109.2 |
| SLC7A8 | 135.8 | 161 | 104 | 100.3 | 87.5 | 100.4 | 135.1 | 154.3 |
| SLC7A9 | 173.7 | 174.1 | 126.4 | 118.3 | 134.1 | 131.6 | 146 | 169.6 |
| SLC8A1 | 118.4 | 134.6 | 96.9 | 89.5 | 84 | 98.6 | 104 | 117.3 |
| SLC8A2 | 87.9 | 118.9 | 94.5 | 92.5 | 94.3 | 102.2 | 94.6 | 98.5 |
| SLC8A3 | 89.2 | 98.5 | 95.3 | 85.3 | 83 | 92.5 | 90.5 | 94.9 |
| SLC8A3 | 94.4 | 103.7 | 99.5 | 90.5 | 88.1 | 96.3 | 97.5 | 97.5 |
| SLC8A3 | 73.4 | 81 | 89.3 | 72 | 81.2 | 79.5 | 76.1 | 87.1 |
| SLC9A1 | 473.8 | 613.2 | 477.2 | 391.9 | 373.6 | 407.7 | 475.3 | 477.7 |
| SLC9A10 | 81.6 | 89.9 | 106.8 | 93.6 | 84.8 | 88.3 | 90.8 | 83.2 |
| SLC9A11 | 76.1 | 87.1 | 92.2 | 88.2 | 90.7 | 83.7 | 77.5 | 80.6 |
| SLC9A2 | 110.2 | 127.1 | 85.9 | 91.6 | 81.6 | 90.4 | 103.8 | 132.6 |
| SLC9A3 | 108.5 | 128.8 | 94.6 | 90.5 | 80.6 | 99.8 | 101.2 | 148 |
| SLC9A3R1 | 1055.7 | 1395.9 | 608.8 | 513.5 | 430.9 | 542.8 | 839 | 698.1 |
| SLC9A3R2 | 99.8 | 123.8 | 87.7 | 80.6 | 84.8 | 86.1 | 109.7 | 128.8 |
| SLC9A4 | 556.1 | 389.4 | 738.2 | 195.1 | 149 | 342.5 | 365.7 | 957.3 |
| SLC9A5 | 103 | 113.2 | 101.3 | 95.1 | 89.9 | 95.6 | 108 | 122.9 |
| SLC9A6 | 82.8 | 96.8 | 88 | 79.1 | 81.9 | 79.1 | 91.3 | 109.3 |
| SLC9A6 | 84.8 | 96 | 97.1 | 93 | 95.7 | 93.9 | 86.1 | 96.7 |
| SLC9A6 | 449.3 | 626.6 | 380.6 | 376.2 | 323.6 | 509.5 | 434.7 | 831.2 |
| SLC9A7 | 127.9 | 154.3 | 97.6 | 100.3 | 85.2 | 99.9 | 110.7 | 149.1 |
| SLC9A8 | 146.2 | 166.4 | 171.1 | 148.6 | 129.8 | 162.9 | 147.5 | 233.6 |
| SLC9A9 | 83.6 | 97.4 | 91.3 | 104.5 | 90.1 | 86 | 84.2 | 100.4 |
| SLCO1A2 | 77.5 | 85.4 | 81.3 | 75 | 84.4 | 80.8 | 78.5 | 82.9 |
| SLCO1A2 | 80.8 | 93.9 | 99 | 80.8 | 86.2 | 79.7 | 94.5 | 89.9 |
| SLCO1A2 | 79.1 | 95.7 | 86.7 | 81.9 | 77.8 | 78.1 | 72.7 | 88.3 |

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|---------|--------|--------|-------|--------|-------|--------|--------|--------|
| SLCO1A2 | 84.9 | 88.7 | 103.8 | 94.3 | 85.7 | 92.4 | 82.6 | 83.4 |
| SLCO1A2 | 122.1 | 136.1 | 86.5 | 81.6 | 76 | 92.8 | 117.8 | 135.7 |
| SLCO1B1 | 69.6 | 81.1 | 89.3 | 77 | 76.7 | 79.5 | 77.3 | 70.3 |
| SLCO1B3 | 91.5 | 91.7 | 83.1 | 82.7 | 73.1 | 74.1 | 77.6 | 89.5 |
| SLCO1C1 | 81.6 | 95.2 | 87.9 | 78.4 | 70.9 | 86.8 | 78.8 | 95 |
| SLCO2A1 | 89 | 98 | 91.1 | 86.5 | 85.5 | 91.7 | 89 | 96.4 |
| SLCO2B1 | 82.8 | 101.5 | 95.8 | 112.3 | 100.7 | 102.6 | 93.7 | 94 |
| SLCO3A1 | 110.1 | 129 | 105.2 | 98.6 | 88 | 88.5 | 113.2 | 134.8 |
| SLCO3A1 | 161.5 | 223.2 | 140.3 | 136.4 | 128.9 | 141.5 | 179.2 | 203.1 |
| SLCO4A1 | 219.5 | 284.6 | 302.7 | 183.1 | 171.5 | 202.4 | 176.7 | 264.6 |
| SLCO4C1 | 97.9 | 99.7 | 96.4 | 99.8 | 104.3 | 125.9 | 104.3 | 109.7 |
| SLCO5A1 | 100.2 | 97 | 107.5 | 98 | 84.1 | 81 | 89.9 | 94.9 |
| SLCO6A1 | 78 | 96.2 | 87.8 | 80.1 | 78.6 | 81.2 | 93.1 | 100.3 |
| SLD5 | 962.5 | 1059.3 | 527.1 | 276.6 | 227.9 | 176.7 | 806.6 | 1085.7 |
| SLFN11 | 679.4 | 859.9 | 328 | 297.3 | 267.4 | 467.6 | 605.7 | 1122.8 |
| SLFN13 | 96.9 | 104.7 | 105.9 | 97.1 | 104.4 | 102.9 | 86.6 | 94.4 |
| SLIC1 | 161.9 | 205.2 | 104.2 | 101.2 | 104.9 | 100.5 | 128.4 | 138.2 |
| SLIC1 | 121.3 | 154.4 | 122 | 113.4 | 108.5 | 104.9 | 109.8 | 103 |
| SLIT1 | 119.4 | 142.8 | 111.9 | 104 | 88.3 | 101.5 | 115 | 133.6 |
| SLIT2 | 110.8 | 135.7 | 111.1 | 88.4 | 83.6 | 97.1 | 98.7 | 115.7 |
| SLIT3 | 72.8 | 77.8 | 100.1 | 94.3 | 86 | 89.2 | 71.7 | 85.4 |
| SLITL2 | 107.3 | 123.2 | 104 | 115 | 108.2 | 108.5 | 112.4 | 138.9 |
| SLITRK1 | 89.5 | 93.2 | 94 | 81.4 | 85.7 | 77.4 | 88.1 | 94.2 |
| SLITRK2 | 98.7 | 114.7 | 84 | 74.5 | 82.4 | 77.4 | 97.2 | 108 |
| SLITRK3 | 97.4 | 112 | 105.9 | 93.8 | 92.9 | 90.7 | 97.4 | 98.4 |
| SLITRK4 | 519.9 | 693.6 | 340.8 | 386.5 | 329.2 | 568.7 | 463.4 | 604.6 |
| SLITRK5 | 188.3 | 218 | 113.5 | 116.2 | 113.3 | 123 | 125.6 | 128.7 |
| SLITRK6 | 95.3 | 102.9 | 95.3 | 95.7 | 100.1 | 93.4 | 98.8 | 99 |
| SLK | 316.4 | 374.2 | 158.6 | 210.2 | 175.8 | 293 | 296.6 | 464.9 |
| SLMAP | 962.9 | 1341.8 | 590.8 | 689.9 | 531.2 | 983.1 | 983.1 | 1441.7 |
| SLMO1 | 422.3 | 433.7 | 284.2 | 183.2 | 152.2 | 208.7 | 343.1 | 484.2 |
| SLN | 85.4 | 103.4 | 94.1 | 95.8 | 88.5 | 91.8 | 87.8 | 109.3 |
| SLPI | 581.9 | 737.8 | 400.6 | 530.1 | 396.2 | 590.6 | 366.3 | 505.4 |
| SLTM | 1428.7 | 1675 | 974.2 | 1126.2 | 1089 | 1668.4 | 1140.1 | 1637 |
| SLTM | 1255.6 | 1573 | 540.6 | 524.1 | 510.8 | 726.6 | 902.5 | 1206.7 |
| SLTM | 429.8 | 685.5 | 176.7 | 158.8 | 129.6 | 149.8 | 375.8 | 604.7 |
| SLU7 | 664.6 | 810.3 | 527.3 | 613.7 | 492.4 | 1087.3 | 657.4 | 1342.2 |
| SLURP1 | 97.2 | 116.5 | 96.3 | 91.3 | 81.3 | 88.7 | 92.1 | 103.4 |
| SMA4 | 301.2 | 331.7 | 135.9 | 219.9 | 191.8 | 176.3 | 242.1 | 403.5 |
| SMA5 | 89.6 | 101.6 | 95.3 | 84.5 | 84.8 | 83.8 | 96.4 | 107.9 |
| SMAD1 | 127.4 | 160.1 | 103.9 | 91.3 | 86.8 | 88.2 | 119.4 | 138.3 |
| SMAD1 | 87.1 | 94.8 | 80 | 78.2 | 76.7 | 76 | 88.1 | 89.9 |
| SMAD2 | 166.1 | 226.2 | 188.3 | 180.3 | 151.6 | 184.2 | 154.7 | 209.8 |
| SMAD2 | 99.2 | 125.1 | 94.1 | 88.4 | 86.2 | 89.2 | 110.2 | 135.9 |
| SMAD3 | 271 | 347.4 | 240.8 | 394.9 | 355.6 | 549.1 | 214.1 | 314.4 |
| SMAD4 | 1091.2 | 1439.5 | 888.9 | 899.8 | 752.5 | 1271.3 | 989.2 | 1667.3 |
| SMAD5 | 97.1 | 99.7 | 93.6 | 92.2 | 89.9 | 90.1 | 95.9 | 100 |
| SMAD5 | 101.1 | 102.9 | 99.5 | 85.5 | 83.6 | 95.4 | 99.2 | 117.8 |
| SMAD5 | 1062.7 | 1358.8 | 588.7 | 862 | 593.1 | 934.7 | 725.1 | 1236.7 |
| SMAD6 | 513.7 | 651.1 | 290.2 | 317.3 | 255.2 | 349.9 | 492.7 | 518 |

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| SMAD7 | 127.8 | 134.4 | 96.5 | 117.9 | 93 | 109.2 | 121.1 | 177.5 |
| SMAD9 | 100.8 | 112.2 | 88.8 | 86.8 | 82.8 | 87.1 | 93.9 | 124.5 |
| SMAF1 | 119.8 | 134.9 | 102.4 | 92.6 | 95.6 | 93.2 | 111.7 | 125.1 |
| SMAP | 246 | 298.7 | 126 | 123.2 | 107.4 | 133.1 | 241.1 | 445.6 |
| SMAP1 | 519.3 | 675.6 | 556.7 | 703 | 504.2 | 937 | 452.5 | 819.6 |
| SMAP1 | 276.8 | 329.9 | 137 | 140.1 | 128.6 | 168.8 | 209.8 | 267.2 |
| SMAP1L | 16273 | 20886.3 | 11637.8 | 12717.8 | 11424.9 | 13460 | 13551 | 13113.8 |
| SMARCA1 | 90.5 | 86.9 | 96.8 | 87.5 | 84.8 | 79.8 | 81.5 | 90.5 |
| SMARCA2 | 87.7 | 103.8 | 99.5 | 89.8 | 83.4 | 88 | 86.2 | 93.8 |
| SMARCA2 | 1951.7 | 2898.9 | 1255.6 | 1679.3 | 1601 | 2900.9 | 1893 | 2407.3 |
| SMARCA3 | 270.1 | 310.7 | 135.7 | 137.5 | 110.4 | 195.2 | 163.7 | 240 |
| SMARCA3 | 607.9 | 697.3 | 437.8 | 619.7 | 478.9 | 1075.6 | 507.7 | 908.2 |
| SMARCA4 | 3320.4 | 4233.4 | 1840.4 | 1443.6 | 1099.6 | 1280 | 2534.6 | 2489.1 |
| SMARCA5 | 627.8 | 718.8 | 209.2 | 183.7 | 138.6 | 306.7 | 534.3 | 1141.1 |
| SMARCAD1 | 299.1 | 368.5 | 230.9 | 224 | 150.9 | 331.8 | 254.1 | 405.4 |
| SMARCAL1 | 480.3 | 629.7 | 381.3 | 396.9 | 336.3 | 465 | 404.9 | 502.8 |
| SMARCB1 | 320.1 | 460.6 | 423.4 | 279.9 | 215.1 | 341.6 | 302.2 | 517 |
| SMARCB1 | 679.5 | 742 | 491.7 | 381.7 | 341 | 582.4 | 526.3 | 1388 |
| SMARCC1 | 1476.5 | 2244.6 | 1140.3 | 1696.5 | 1218.6 | 2671 | 1302.8 | 2575.1 |
| SMARCC2 | 142.7 | 170.6 | 99.5 | 96.1 | 90 | 115.3 | 146.4 | 159.3 |
| SMARCC2 | 335.7 | 333.4 | 449.9 | 818.9 | 644.8 | 682.6 | 291.8 | 498.7 |
| SMARCC2 | 112 | 121.8 | 155.5 | 197.9 | 189 | 239 | 100.1 | 133.7 |
| SMARCD1 | 90.2 | 112.5 | 94.3 | 81.5 | 90.6 | 88 | 96.7 | 108.8 |
| SMARCD1 | 769.6 | 932.9 | 597.4 | 581.3 | 483.3 | 734.2 | 623 | 1011.7 |
| SMARCD2 | 625.9 | 844.4 | 491.7 | 317.5 | 275.6 | 334.7 | 470.7 | 699.1 |
| SMARCD3 | 121.5 | 158.6 | 99.5 | 115.2 | 102.9 | 134.5 | 116.4 | 171.2 |
| SMARCD3 | 93 | 99.9 | 94.7 | 85.2 | 87.8 | 82.9 | 87.9 | 100 |
| SMARCD3 | 295.3 | 361.5 | 219.4 | 260.8 | 232 | 317.8 | 319.6 | 402.9 |
| SMARCE1 | 865.1 | 1119.5 | 307.2 | 418.3 | 272 | 491 | 750.2 | 1160.5 |
| SMBP | 662.6 | 768.6 | 239.9 | 204.5 | 154.2 | 251.8 | 551.5 | 890.2 |
| SMC1L1 | 98 | 122.6 | 113.8 | 120.8 | 117.9 | 148 | 108.2 | 112.5 |
| SMC1L2 | 109.1 | 121.2 | 112.4 | 110.2 | 99.3 | 109.1 | 112.8 | 124.7 |
| SMC2 | 266.7 | 322.3 | 155 | 138.4 | 130.3 | 122 | 195.8 | 246.1 |
| SMC2 | 712.9 | 836.8 | 458.6 | 484.5 | 392 | 837.7 | 547.8 | 725.4 |
| SMC2L1 | 728.3 | 887.7 | 380.7 | 301.8 | 267 | 601 | 527.5 | 868.8 |
| SMC3 | 144.3 | 166 | 112.2 | 93.9 | 91.3 | 113 | 142.2 | 290.8 |
| SMC4 | 3986.1 | 4789.2 | 1980.6 | 2379.5 | 2043.3 | 3416.2 | 3518.3 | 6633.8 |
| SMC4 | 406.8 | 577 | 136.3 | 111.3 | 129.8 | 113.1 | 432.4 | 524.8 |
| SMC4L1 | 140.8 | 189 | 126.3 | 103.1 | 120.3 | 101.3 | 133 | 168.5 |
| SMC5L1 | 89.3 | 93.1 | 86.8 | 84.2 | 82.8 | 76.4 | 85.3 | 98.4 |
| SMC6L1 | 116 | 123.9 | 90.1 | 94.2 | 85.8 | 85.2 | 106.1 | 132 |
| SMCP | 116.6 | 163 | 86.8 | 86.1 | 93.6 | 86.4 | 112.2 | 131.2 |
| SMCR7 | 87.1 | 90.7 | 91.8 | 85.6 | 75.7 | 85.1 | 82.3 | 88.2 |
| SMCR7 | 96.9 | 107.2 | 93.5 | 93.1 | 89.3 | 93.9 | 93.9 | 101.2 |
| SMCR8 | 95.7 | 97.2 | 92.8 | 77.9 | 80 | 79.3 | 83.2 | 102 |
| SMCX | 114.7 | 128.3 | 114.6 | 109.8 | 104.7 | 120.2 | 105 | 139.2 |
| SMCY | 274.8 | 295.3 | 268.8 | 261.1 | 305.4 | 417.7 | 202.4 | 276.2 |
| SMEK2 | 1381.4 | 1829.7 | 756.4 | 1064.7 | 589.8 | 1207.3 | 1215.4 | 2023.5 |
| SMEK3P | 88.3 | 95.5 | 99.9 | 87.2 | 84.5 | 86.4 | 91.2 | 92.3 |
| SMG1 | 439.3 | 833.5 | 366.3 | 641.3 | 537 | 1183 | 573.7 | 832.7 |

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| SMG5 | 812 | 915.2 | 559.9 | 443.7 | 368.4 | 572.8 | 806.9 | 1045.3 |
| SMG6 | 118.4 | 120.7 | 106.5 | 95.6 | 90.5 | 94.7 | 101.8 | 117.9 |
| SMG7 | 212.2 | 284.6 | 192.7 | 190 | 181.8 | 203.7 | 219.6 | 252.1 |
| SMG7 | 106.6 | 123.9 | 111.5 | 99.3 | 90.6 | 98 | 101.7 | 92.8 |
| SMG7 | 389.6 | 536.9 | 512 | 773.1 | 565.3 | 1216.2 | 394.7 | 1111.2 |
| SMN1 | 78.2 | 91.5 | 85.4 | 74.3 | 74.3 | 79.5 | 82.3 | 85.6 |
| SMN2 | 188.2 | 206.9 | 146.1 | 131.2 | 118.8 | 131.2 | 164 | 221.1 |
| SMNDC1 | 1195.9 | 1318.5 | 646.5 | 492.5 | 406.3 | 553.8 | 1090.8 | 1926.7 |
| SMO | 115.1 | 140.6 | 113.5 | 109.3 | 107.5 | 122.3 | 118.6 | 129.7 |
| SMOC1 | 68.2 | 77.7 | 75 | 72.3 | 77.3 | 73.8 | 72.1 | 78.9 |
| SMOC1 | 94.2 | 103 | 97.6 | 91.9 | 86 | 91.2 | 85.7 | 95.5 |
| SMOC2 | 101.5 | 105.3 | 95.3 | 88.9 | 82.6 | 91.9 | 94.8 | 96.5 |
| SMOX | 171.1 | 201.7 | 131 | 123.4 | 121.4 | 129.8 | 160.8 | 191.5 |
| SMOX | 108.3 | 115.6 | 109.3 | 90.4 | 87.9 | 110.1 | 125.8 | 161.2 |
| SMOX | 76.4 | 82.6 | 95.1 | 86.8 | 84.6 | 92.7 | 75.8 | 83 |
| SMPD1 | 153.4 | 226.8 | 152.3 | 133.3 | 122.5 | 130 | 160.9 | 161.1 |
| SMPD1 | 125.8 | 145.6 | 105.1 | 85.8 | 92.1 | 90.4 | 127.5 | 195.3 |
| SMPD2 | 219 | 281.9 | 208.3 | 160.2 | 169.5 | 189.3 | 186.9 | 257.3 |
| SMPD3 | 96.4 | 112.6 | 103.4 | 102.9 | 114.1 | 92 | 102.8 | 99.5 |
| SMPDL3A | 94.5 | 105.7 | 110.6 | 105 | 97.7 | 108.4 | 109.5 | 159.7 |
| SMPDL3B | 93.7 | 96.3 | 103 | 108.2 | 104.6 | 101.9 | 87.4 | 80.5 |
| SMPDL3B | 93.4 | 104.5 | 85.6 | 100.9 | 92.6 | 101.2 | 91.4 | 95.6 |
| SMPDL3B | 108.8 | 124.3 | 100.9 | 88.7 | 93.7 | 90.3 | 107.8 | 114.7 |
| SMPX | 72.9 | 79.8 | 81.1 | 89.4 | 86.6 | 73.8 | 83.6 | 84.6 |
| SMR3A | 84.3 | 84.7 | 82.9 | 85.4 | 81.7 | 82.6 | 83.4 | 83.3 |
| SMR3B | 80.4 | 94.1 | 91.7 | 80 | 84.4 | 91.8 | 83.7 | 90.8 |
| SMS | 1863.8 | 2485.4 | 924.5 | 997.7 | 746.6 | 1486.1 | 1283.7 | 1794.7 |
| SMTN | 126.3 | 132.8 | 102.5 | 97.3 | 81.2 | 84.7 | 119 | 136.2 |
| SMTN | 78.6 | 89.1 | 90.9 | 88.6 | 91.3 | 94.9 | 82.4 | 103.5 |
| SMTN | 208.7 | 223.2 | 261.8 | 211.8 | 199.6 | 289.8 | 176.8 | 298 |
| SMU1 | 371.1 | 507.5 | 189.8 | 137.4 | 135.6 | 154.8 | 290.4 | 375.4 |
| SMUG1 | 808.4 | 1037.7 | 418.3 | 528.7 | 427.9 | 544.5 | 683.1 | 906.2 |
| SMURF1 | 116 | 125.7 | 115.2 | 104.8 | 104.5 | 121.5 | 96.1 | 104.1 |
| SMURF1 | 94.8 | 93.9 | 105.4 | 93.7 | 81.3 | 93.9 | 96.7 | 104.7 |
| SMURF2 | 107.9 | 129.3 | 111.2 | 109.5 | 85.8 | 102.2 | 102.2 | 122.7 |
| SMYD1 | 75.8 | 82.5 | 72.7 | 65.8 | 74.1 | 78.1 | 73.8 | 79 |
| SMYD2 | 504.9 | 668.6 | 236.5 | 279.1 | 241.6 | 341.2 | 344.7 | 614.1 |
| SMYD3 | 6614.9 | 8255.6 | 2780.4 | 2279.4 | 1709.7 | 2571.3 | 6717.7 | 9427.7 |
| SMYD4 | 269.3 | 315.2 | 223.7 | 220.3 | 196.5 | 261.8 | 246.2 | 426 |
| SMYD5 | 106.7 | 116.1 | 111.2 | 97.2 | 99.9 | 97.9 | 95.8 | 125.3 |
| SN | 90.8 | 103.8 | 86.5 | 87.3 | 89.4 | 90.3 | 96.2 | 99.5 |
| SNAG1 | 110.2 | 120.4 | 103.7 | 89.4 | 83.4 | 98.2 | 105 | 132.3 |
| SNAI1 | 85.1 | 81 | 87.4 | 88.7 | 81.1 | 86.5 | 75.7 | 87.3 |
| SNAI2 | 103.3 | 114.4 | 104.2 | 82.4 | 85.2 | 89.2 | 108 | 186.3 |
| SNAI3 | 104.1 | 126.5 | 117.9 | 107.4 | 101.8 | 109.2 | 100.9 | 171.9 |
| SNAP23 | 852.3 | 1104.9 | 260 | 287.6 | 222 | 268.8 | 552 | 781.9 |
| SNAP23 | 323.8 | 373.8 | 165.4 | 210.3 | 171.2 | 244 | 316.7 | 509.7 |
| SNAP25 | 157.5 | 187.4 | 107 | 106.3 | 94.3 | 113.8 | 147.9 | 174.7 |
| SNAP25 | 145.5 | 174.2 | 130.9 | 116.7 | 102.4 | 122.5 | 141.1 | 175.1 |
| SNAP29 | 404.5 | 629 | 259.6 | 327.1 | 242.8 | 352.6 | 400.7 | 580.3 |

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|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| SNAP91 | 115.4 | 120.1 | 96.2 | 152.7 | 167.2 | 180.5 | 102.2 | 108.4 |
| SNAPAP | 246.4 | 264.9 | 135.7 | 104.6 | 98.9 | 117.1 | 198.3 | 286.3 |
| SNAPC1 | 217.2 | 225.5 | 152.8 | 194.6 | 207.5 | 183.9 | 213.7 | 217.2 |
| SNAPC2 | 534.6 | 649.4 | 359.5 | 270.7 | 253.4 | 234.1 | 592.2 | 656.7 |
| SNAPC3 | 81.9 | 109.1 | 78.6 | 72.7 | 67.4 | 81.5 | 88.4 | 104.4 |
| SNAPC4 | 1289.9 | 1547.1 | 1197.6 | 923.4 | 901.6 | 938.7 | 956.3 | 891.5 |
| SNAPC5 | 449.1 | 567.3 | 193.4 | 183.6 | 149.4 | 210.6 | 375.3 | 472.4 |
| SNCA | 103 | 115 | 122.2 | 96.5 | 84.2 | 91.7 | 109.8 | 148.4 |
| SNCA | 85.2 | 87.1 | 92.4 | 87.9 | 80.4 | 83.5 | 90.6 | 98.1 |
| SNCAIP | 96.5 | 105.1 | 87.5 | 82.4 | 79.7 | 78.3 | 105.4 | 108.5 |
| SNCB | 92.4 | 108.4 | 93.9 | 70.6 | 87.3 | 82.3 | 89 | 97.8 |
| SNCB | 92.2 | 98.9 | 104.5 | 96.9 | 87.4 | 84.5 | 90.7 | 93.1 |
| SNCG | 92.3 | 104.1 | 92.9 | 83.3 | 74.8 | 88.1 | 90.5 | 101 |
| SND1 | 898.7 | 1251.2 | 1149.3 | 1428.7 | 1154 | 1911.8 | 759.7 | 1281.7 |
| SNF1LK | 116.2 | 144.3 | 113.3 | 114.4 | 108.7 | 112.5 | 113.7 | 147.7 |
| SNF1LK2 | 106.6 | 122.7 | 103.1 | 105.9 | 89.2 | 104.9 | 108.8 | 124.8 |
| SNF8 | 1068 | 1134.5 | 329.7 | 361.6 | 272.7 | 346.2 | 1024.4 | 771 |
| SNFT | 527.7 | 643.9 | 366.5 | 194.4 | 181.6 | 216.9 | 467.8 | 419.9 |
| SNHG10 | 99.6 | 117.5 | 100.3 | 89.9 | 86.6 | 86.2 | 109.2 | 97.2 |
| SNHG3 | 82.3 | 102.2 | 94.5 | 82.4 | 84.3 | 77 | 93.9 | 100.2 |
| SNHG3-RC | 175.2 | 233.1 | 86 | 78.8 | 89.2 | 84.7 | 153.5 | 185.9 |
| SNHG5 | 11639.1 | 12238.7 | 5947.7 | 6672.9 | 4651.7 | 8341.8 | 8553.7 | 9269.2 |
| SNHG8 | 107.5 | 125.8 | 100.2 | 101 | 83.9 | 91 | 96 | 113.5 |
| SNIP | 86.5 | 102 | 92.2 | 80.3 | 72.9 | 92.4 | 91.4 | 94.6 |
| SNIP1 | 461.1 | 557.5 | 203.1 | 245.5 | 196.2 | 248.4 | 381.8 | 517.3 |
| SNN | 174 | 217.8 | 105.2 | 121.2 | 93.7 | 105.8 | 162 | 199.1 |
| SNORA32 | 169.7 | 151 | 131.9 | 122.8 | 106.8 | 169.3 | 114 | 155.7 |
| SNORD107 | 78.5 | 88.3 | 88.3 | 80 | 82.2 | 83.7 | 79.7 | 81.9 |
| SNORD116 | 90.5 | 81.6 | 96.5 | 87.4 | 91.8 | 83.8 | 80.5 | 92.4 |
| SNORD116 | 82.5 | 89.7 | 97.2 | 84.9 | 92.6 | 90.6 | 87.9 | 86.1 |
| SNORD36A | 333.8 | 332.3 | 143.2 | 125.6 | 110.8 | 141.8 | 232.1 | 338.6 |
| SNORD36C | 296.3 | 268.3 | 142 | 123.2 | 104.8 | 151.2 | 181.6 | 337.2 |
| SNORD48 | 496.6 | 409.3 | 266.1 | 180.4 | 203.9 | 174.5 | 258.1 | 331.5 |
| SNORD56 | 250.5 | 266.3 | 224.5 | 177.2 | 160 | 213.9 | 169 | 257.4 |
| SNPH | 110.3 | 129.3 | 101.4 | 84.7 | 91.1 | 99.9 | 111 | 133.3 |
| SNRK | 1334.7 | 2008.7 | 846 | 1149.1 | 1057.5 | 1761.8 | 1159.1 | 1724.5 |
| SNRP70 | 543.5 | 704.1 | 335.5 | 262.5 | 238.6 | 344.6 | 458.8 | 718.7 |
| SNRP70 | 4568.7 | 5768.7 | 3288.8 | 2845.3 | 2501.8 | 3350.4 | 4228.1 | 6694.6 |
| SNRP70 | 93.6 | 94.8 | 95.1 | 97.7 | 98.8 | 92.5 | 96.7 | 103.5 |
| SNRPA | 1261.2 | 1606 | 822.2 | 602.7 | 493 | 713.4 | 1025.1 | 1436.8 |
| SNRPA1 | 7092.9 | 9181.6 | 5084.1 | 3730.4 | 2760.7 | 4158.7 | 5907.6 | 8254 |
| SNRPB | 5632.5 | 7008.5 | 3511.7 | 1887.4 | 1345.9 | 1473.7 | 6184.9 | 5784.9 |
| SNRPB | 5210.2 | 6368.1 | 4608.6 | 2402.5 | 1883.9 | 2854.4 | 4671.4 | 6067.6 |
| SNRPB2 | 4534.9 | 5507 | 2885.1 | 2765.9 | 2040.2 | 3263.9 | 3895.2 | 5325.6 |
| SNRPB2 | 1466.4 | 1727.3 | 1033.9 | 899.5 | 695.1 | 997.2 | 1038.3 | 1245.2 |
| SNRPC | 3725.4 | 4467.2 | 1890.9 | 2001.1 | 1467.1 | 2275.9 | 3024.4 | 5256.4 |
| SNRPD1 | 769 | 990.1 | 271.1 | 223.3 | 192.2 | 235.8 | 573.7 | 845.6 |
| SNRPD2 | 202.1 | 240.6 | 111 | 97.1 | 89.5 | 91 | 223.7 | 191 |
| SNRPD2 | 25875.3 | 27420.5 | 23885.8 | 17904.1 | 16834.9 | 21302.8 | 23077.8 | 23862.7 |
| SNRPD3 | 716.4 | 998 | 356.5 | 273.7 | 241.8 | 164.3 | 629 | 1029.3 |

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|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| SNRPE | 107.9 | 106.7 | 97.9 | 94.4 | 81.7 | 94.3 | 103.6 | 105.3 |
| SNRPF | 12040 | 14130.9 | 9120 | 8155 | 6418.1 | 8594.5 | 9097.8 | 12691.8 |
| SNRPG | 22486.1 | 22693.1 | 20637.7 | 19053.5 | 11950.8 | 18569.9 | 22128.2 | 25970.1 |
| SNRPN | 3436.2 | 4679.6 | 2088.2 | 1561 | 1383.1 | 1511.4 | 3267.4 | 3416.4 |
| SNRPN | 82.2 | 90.2 | 92.2 | 90.2 | 80.7 | 85.2 | 84.2 | 87.9 |
| SNTA1 | 190 | 231.7 | 172.4 | 177.9 | 161.8 | 203.9 | 194.8 | 248.6 |
| SNTB1 | 926 | 1267.7 | 648.4 | 464.5 | 433 | 611.5 | 712.9 | 847 |
| SNTB2 | 94.3 | 110.1 | 87.1 | 86.7 | 80 | 83.3 | 97.9 | 113.8 |
| SNTB2 | 194.1 | 269 | 153.5 | 130.2 | 116.4 | 127.4 | 232.6 | 299.2 |
| SNTG1 | 70.9 | 82.8 | 84.4 | 77.6 | 76.1 | 85.1 | 76.4 | 74.3 |
| SNTG2 | 79.6 | 95.9 | 98 | 93.9 | 87.4 | 95.2 | 75.4 | 88.4 |
| SNUPN | 1086.8 | 1352 | 754.7 | 561 | 491.5 | 786.6 | 1064.8 | 1804.2 |
| SNURF | 3512.8 | 5106.3 | 2026.8 | 1299.2 | 1222.7 | 1537.7 | 2971.6 | 3380.9 |
| SNURF | 137.4 | 165 | 118.6 | 102.9 | 97.4 | 98.8 | 123.3 | 168.8 |
| SNW1 | 429.6 | 539.7 | 149.9 | 128.4 | 112.7 | 217.5 | 374.2 | 590 |
| SNX1 | 199 | 241.2 | 140.6 | 179.9 | 188.7 | 248.9 | 163.9 | 216.8 |
| SNX10 | 609.7 | 716.4 | 230.7 | 377.9 | 255.1 | 571.4 | 396.2 | 631.6 |
| SNX11 | 820.5 | 1084.8 | 530.1 | 496.7 | 406.8 | 584.5 | 814.3 | 1158.6 |
| SNX11 | 115.9 | 162.6 | 103.6 | 97.2 | 102.2 | 89.4 | 117.6 | 134.3 |
| SNX12 | 222.4 | 297.5 | 107.4 | 122.7 | 119.4 | 91.1 | 218.2 | 252.8 |
| SNX13 | 252.9 | 346.2 | 171.8 | 179.4 | 160.3 | 292.5 | 259.9 | 462.5 |
| SNX14 | 157.1 | 165.6 | 87.8 | 80.8 | 79.5 | 90 | 119.2 | 172.2 |
| SNX14 | 1720.7 | 2092.3 | 486.8 | 542.4 | 382.5 | 989.1 | 1375.9 | 1967.2 |
| SNX15 | 108.2 | 120.7 | 107.4 | 108.7 | 94.3 | 102.4 | 107.4 | 97.1 |
| SNX15 | 107.9 | 120.8 | 102.4 | 96.9 | 101.5 | 97.7 | 107.3 | 110.8 |
| SNX16 | 315.8 | 316.7 | 196.8 | 199.1 | 181 | 290.9 | 255 | 418.1 |
| SNX16 | 83.2 | 92.1 | 76.7 | 87.4 | 88.7 | 83.6 | 81 | 90.6 |
| SNX17 | 1921.6 | 2430.4 | 1584.2 | 1442.9 | 1074 | 1855.6 | 1346.2 | 2159.4 |
| SNX19 | 277.1 | 355.4 | 294.4 | 247.4 | 216.3 | 347 | 251.4 | 476.3 |
| SNX2 | 3012.1 | 3701.1 | 1634.7 | 1808.7 | 1609.1 | 2473.3 | 2811.1 | 3244.2 |
| SNX21 | 80.9 | 89.2 | 84.9 | 80.8 | 80.9 | 83.8 | 80.2 | 79.9 |
| SNX22 | 114.2 | 130.8 | 97.6 | 89.6 | 86.4 | 84.1 | 107.2 | 128.3 |
| SNX24 | 137.9 | 164 | 91.9 | 114.3 | 102.5 | 130.7 | 122.9 | 179.4 |
| SNX25 | 123.3 | 169.4 | 110.7 | 113.9 | 96.1 | 123.4 | 150.2 | 189.7 |
| SNX26 | 786 | 613.2 | 610.9 | 538.2 | 672.8 | 565.3 | 380.6 | 442.4 |
| SNX27 | 1941.6 | 2798.8 | 1520.4 | 1428.2 | 1222.1 | 1694 | 1663.7 | 1488.9 |
| SNX3 | 16474.9 | 17375.9 | 8128.4 | 10677 | 7745.5 | 12046.3 | 14034 | 18517.2 |
| SNX4 | 1403.8 | 1793.5 | 785.2 | 878.4 | 677.5 | 1102.6 | 1165.3 | 1717.9 |
| SNX5 | 939.5 | 1308.2 | 480.5 | 347.8 | 285.7 | 328.4 | 588.7 | 688.8 |
| SNX5 | 510.1 | 623.8 | 318.8 | 343 | 288.6 | 423.8 | 298 | 454.1 |
| SNX6 | 444.2 | 616.9 | 329.9 | 225.8 | 194.5 | 242.4 | 546.8 | 463.8 |
| SNX6 | 109.9 | 137 | 96.6 | 87.1 | 95.8 | 87.3 | 100.9 | 122.9 |
| SNX7 | 93.2 | 107.4 | 85.4 | 80.7 | 83.2 | 87.8 | 86.2 | 91.6 |
| SNX7 | 261.4 | 322.8 | 124.4 | 109.4 | 112.3 | 107.6 | 223.5 | 286.5 |
| SNX7 | 97.7 | 109.1 | 114.9 | 113.1 | 110.7 | 104.1 | 113.7 | 114 |
| SNX8 | 441.9 | 679.8 | 373.4 | 328.6 | 280.2 | 414.3 | 369.7 | 648 |
| SNX9 | 88.3 | 104.1 | 86.9 | 78.2 | 84.1 | 81.3 | 87.7 | 95.9 |
| SOAT1 | 275.1 | 346.9 | 141.1 | 134.5 | 127.3 | 159.2 | 253.3 | 577.3 |
| SOAT2 | 107.2 | 117 | 88.3 | 89.7 | 69.4 | 83.3 | 104.6 | 126.6 |
| SOCS1 | 80.4 | 94.7 | 99.5 | 96.2 | 100 | 91.5 | 87.2 | 105.2 |

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|---------|---------|---------|--------|--------|--------|--------|---------|---------|
| SOCS2 | 150.8 | 164.2 | 130.6 | 120 | 107.9 | 132.8 | 109.2 | 138 |
| SOCS3 | 108.2 | 111.5 | 94.2 | 84.5 | 88 | 92.6 | 105.2 | 99.3 |
| SOCS4 | 106.4 | 128.5 | 120.6 | 110.2 | 95.6 | 105 | 101.8 | 121.2 |
| SOCS4 | 482.3 | 671.4 | 403.2 | 370.1 | 288.1 | 474.6 | 361.7 | 906.1 |
| SOCS5 | 81 | 96.4 | 76.6 | 75.7 | 74.2 | 73.4 | 77.1 | 88.9 |
| SOCS5 | 91.2 | 95.6 | 86.5 | 81.2 | 77.4 | 91.6 | 94.5 | 95.5 |
| SOCS5 | 147 | 187.5 | 115.5 | 119.3 | 111.3 | 160.3 | 139.4 | 184.5 |
| SOCS6 | 133.2 | 142.1 | 102.8 | 97.2 | 93.8 | 107.7 | 119.9 | 147.6 |
| SOCS7 | 118.6 | 146.1 | 107.8 | 108.9 | 97.8 | 106.5 | 119.7 | 146.7 |
| SOCS7 | 125.9 | 154.1 | 109 | 91.9 | 86.4 | 91.6 | 128.4 | 146.4 |
| SOD1 | 14411.6 | 15722.1 | 5357.9 | 4359.4 | 3693.5 | 5303.7 | 13189.7 | 19103.4 |
| SOD2 | 413.5 | 556.8 | 240.1 | 197.7 | 228.4 | 212.9 | 375.1 | 397.3 |
| SOD2 | 1572.4 | 2202.7 | 1570.2 | 1199.9 | 1061.9 | 1347.8 | 1466.1 | 2368.9 |
| SOD2 | 85.3 | 118 | 103.1 | 87.1 | 90.7 | 85 | 88.3 | 96.7 |
| SOD3 | 87.4 | 97.4 | 88.6 | 81.2 | 82.1 | 82.3 | 90.7 | 92 |
| SOHLH2 | 80.2 | 98.7 | 85.2 | 84.8 | 83.6 | 91.7 | 73.5 | 79.2 |
| SOLH | 143.4 | 156.9 | 189.5 | 154.5 | 132.7 | 237.9 | 134.2 | 208.2 |
| SON | 257.7 | 348.4 | 248 | 382.7 | 313.1 | 550.3 | 230.7 | 360.2 |
| SON | 379.8 | 516.6 | 170.2 | 128.1 | 132 | 117.3 | 253.3 | 378.9 |
| SON | 484.6 | 750.6 | 268.3 | 303.6 | 297.5 | 304.6 | 365.4 | 443.8 |
| SON | 3420.5 | 4699.8 | 1928.6 | 2996.5 | 2555.5 | 4040.7 | 3462 | 5241.1 |
| SORBS1 | 75.8 | 78.8 | 108.4 | 94.7 | 94.9 | 90.6 | 77.4 | 82 |
| SORBS1 | 93.1 | 115.3 | 98.6 | 89.5 | 94.6 | 87.2 | 100 | 113.1 |
| SORBS1 | 83.1 | 94.9 | 102 | 93.3 | 88.7 | 87.8 | 87.5 | 89.8 |
| SORBS1 | 79.5 | 83.3 | 89 | 83.2 | 73.4 | 80.4 | 84.6 | 93.9 |
| SORBS1 | 85.9 | 89.1 | 102.8 | 95.2 | 86.7 | 92.9 | 78.4 | 83.9 |
| SORBS2 | 90.4 | 112.7 | 103.4 | 96.7 | 92.4 | 96.4 | 95.3 | 112.1 |
| SORBS2 | 80.2 | 84.8 | 88.5 | 86.5 | 84.4 | 75.5 | 83 | 90.1 |
| SORBS2 | 86.9 | 101.2 | 106.4 | 96.9 | 87.4 | 98.8 | 89.3 | 99.6 |
| SORBS3 | 94.4 | 103.2 | 106.5 | 93 | 87.6 | 82.9 | 94.6 | 98.9 |
| SORBS3 | 107.6 | 120.1 | 99.8 | 115.8 | 97.4 | 97.2 | 98.5 | 109.8 |
| SORBS3 | 958.2 | 1220.7 | 512.1 | 263.6 | 197.6 | 242.7 | 816 | 1232.8 |
| SORCS1 | 81.6 | 89.1 | 84.7 | 77.6 | 81 | 80.7 | 78.9 | 86.9 |
| SORCS1 | 107.5 | 127.4 | 91.2 | 92.5 | 89.7 | 93 | 124.6 | 124.8 |
| SORCS1 | 84.8 | 105 | 92.1 | 86.6 | 88 | 97.5 | 93.4 | 89.9 |
| SORCS2 | 100.9 | 110.5 | 101.1 | 81.9 | 80 | 98.4 | 87.5 | 111.3 |
| SORCS3 | 98.5 | 108.7 | 82.7 | 79.7 | 74.8 | 86.3 | 117.3 | 122.5 |
| SORD | 361.5 | 457.6 | 138.8 | 132.7 | 111.3 | 115.5 | 215.1 | 296.6 |
| SORD | 321.2 | 327.2 | 176.5 | 148 | 142.4 | 219.7 | 246.1 | 495.1 |
| SORL1 | 144.9 | 182.7 | 131.4 | 191.1 | 168.1 | 185.2 | 131.1 | 148.5 |
| SORT1 | 140.5 | 187.3 | 171.9 | 142.1 | 150 | 183.4 | 118.4 | 160.1 |
| SOS1 | 134.6 | 148.8 | 126.8 | 135.9 | 121.8 | 126.9 | 135.5 | 150.8 |
| SOS2 | 129.3 | 157.1 | 105.7 | 103.6 | 113.3 | 114.6 | 131.4 | 151.5 |
| SOST | 101.4 | 92.9 | 84.8 | 77.5 | 82 | 87.8 | 89.2 | 96.4 |
| SOSTDC1 | 139.8 | 149.7 | 116.2 | 101.7 | 104.6 | 112.8 | 141.4 | 140.2 |
| SOX1 | 77.3 | 90.6 | 92.6 | 84.7 | 82.1 | 85.3 | 88.6 | 79.7 |
| SOX10 | 88.2 | 107.1 | 98.5 | 74.6 | 78.9 | 90.4 | 88.4 | 96.1 |
| SOX11 | 96.9 | 96.8 | 85.4 | 89.8 | 80 | 77.9 | 88.8 | 95.1 |
| SOX12 | 110.7 | 127.9 | 130 | 111.5 | 102 | 114.7 | 108.3 | 117.9 |
| SOX13 | 136.6 | 159.5 | 133.1 | 186.9 | 170.7 | 223.7 | 124.1 | 146.9 |

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|---------|--------|--------|-------|-------|-------|-------|-------|-------|
| SOX14 | 108.6 | 122 | 105.2 | 91.9 | 91.5 | 89.5 | 102.6 | 128.1 |
| SOX15 | 104.5 | 124.2 | 105.8 | 99 | 100.7 | 99.1 | 100 | 107.7 |
| SOX17 | 78.4 | 82.9 | 88.4 | 84 | 86.4 | 83.7 | 79.3 | 91.1 |
| SOX18 | 286.5 | 386.2 | 184.2 | 130.4 | 123.2 | 109.2 | 310.5 | 346.9 |
| SOX2 | 73.2 | 83.4 | 84.1 | 83.1 | 78.8 | 83.4 | 68.7 | 81.4 |
| SOX21 | 87.6 | 110.6 | 107 | 104.6 | 105.7 | 109.5 | 87 | 98.9 |
| SOX3 | 139.1 | 173.2 | 151.6 | 108.8 | 83.9 | 99.6 | 138.8 | 164.5 |
| SOX30 | 95.2 | 95.9 | 87.4 | 87.8 | 75.3 | 87.8 | 91.9 | 108.2 |
| SOX30 | 99.2 | 105.4 | 115.2 | 101.1 | 96.6 | 94 | 94 | 102.2 |
| SOX4 | 248.1 | 308.2 | 142.9 | 115.5 | 119.4 | 151.3 | 201.6 | 261.2 |
| SOX5 | 91.1 | 90.1 | 86.7 | 80.8 | 83.5 | 91.4 | 84.2 | 86.9 |
| SOX5 | 100.7 | 104 | 85.9 | 86.2 | 75.4 | 90.5 | 105.1 | 107.6 |
| SOX5 | 86.3 | 97 | 97.7 | 94.6 | 92.9 | 91.8 | 82.4 | 94.5 |
| SOX6 | 75.1 | 101.1 | 86.5 | 88.3 | 83.5 | 85 | 91.6 | 89.1 |
| SOX6 | 118 | 102 | 104.7 | 99.3 | 89.4 | 87.6 | 94.8 | 97.5 |
| SOX6 | 84.4 | 91 | 83.3 | 84.3 | 84.5 | 89.5 | 77 | 90.7 |
| SOX6 | 77.4 | 89 | 85.4 | 84.4 | 76.1 | 89.3 | 76.5 | 82.6 |
| SOX7 | 98.1 | 111.3 | 97.7 | 90.2 | 87.1 | 96 | 101.7 | 104.1 |
| SOX8 | 99.7 | 126 | 105.2 | 96.6 | 90.3 | 101.3 | 86 | 100.7 |
| SOX9 | 76.6 | 85.1 | 101.6 | 95.6 | 100.2 | 103.6 | 77.4 | 73.6 |
| SP1 | 519.7 | 748.6 | 341.9 | 390.2 | 354.4 | 357.3 | 481.2 | 744.8 |
| SP100 | 185.4 | 248.5 | 173.1 | 168.9 | 167.7 | 231.6 | 192.2 | 259.4 |
| SP100 | 132.2 | 152.3 | 120.7 | 128.6 | 120.9 | 178.9 | 127.9 | 168.4 |
| SP100 | 263.2 | 358.3 | 150.2 | 159.8 | 128.9 | 204.9 | 255.7 | 418.2 |
| SP110 | 1084.4 | 1409.4 | 712.3 | 613 | 508.7 | 833.2 | 757.6 | 961.5 |
| SP110 | 696.5 | 926 | 547.9 | 481.3 | 397.5 | 588.5 | 573.2 | 825 |
| SP110 | 108.2 | 115.6 | 102.6 | 110.3 | 113.1 | 111.9 | 99.6 | 104.7 |
| SP140 | 95.9 | 109 | 96.4 | 90.7 | 74.8 | 91.1 | 89.6 | 97.6 |
| SP140 | 100.6 | 118.2 | 110.8 | 96.7 | 89.3 | 108.1 | 91.5 | 112.6 |
| SP140 | 83.5 | 93.7 | 99.6 | 85.8 | 88.7 | 94 | 84.8 | 99.3 |
| SP2 | 211.4 | 232.6 | 258.3 | 296.8 | 259.1 | 359.9 | 199.2 | 490.6 |
| SP3 | 290.2 | 339.9 | 161.2 | 143.2 | 134.1 | 227.7 | 305.1 | 543.6 |
| SP3 | 92.2 | 110.8 | 103.1 | 91 | 86.7 | 89.2 | 109.9 | 104.5 |
| SP3 | 122.3 | 142.8 | 109.2 | 103.4 | 91.6 | 93.8 | 111.1 | 123.7 |
| SP4 | 198.6 | 262.5 | 109.4 | 102.9 | 106.5 | 117.1 | 179.2 | 279.8 |
| SP5 | 130.1 | 158.1 | 102.5 | 101.2 | 94.3 | 104.8 | 124.9 | 134.1 |
| SP6 | 139.4 | 155.8 | 95.1 | 105.8 | 97.7 | 99.8 | 122.8 | 143.8 |
| SP7 | 82.3 | 105.9 | 94.1 | 84.3 | 88.3 | 81.2 | 100 | 100.5 |
| SP8 | 74.9 | 79.2 | 90.1 | 79.9 | 86.9 | 79.9 | 79.6 | 78.5 |
| SP8 | 99.9 | 106.7 | 93.8 | 92.6 | 95.1 | 97.5 | 89.2 | 94.3 |
| SPA17 | 1010.9 | 1261.6 | 569.7 | 326.8 | 256.1 | 378.2 | 783 | 975.7 |
| SPACA1 | 104.2 | 133.8 | 103.9 | 100.3 | 92.4 | 100 | 105.3 | 103.9 |
| SPACA3 | 128.2 | 129.3 | 104.6 | 94.4 | 93.4 | 102.4 | 127 | 131.3 |
| SPACA4 | 93.9 | 111.6 | 87.4 | 86.1 | 88.6 | 87.3 | 92.4 | 95.2 |
| SPACA5 | 85.3 | 81.6 | 94.5 | 91.3 | 82.5 | 89.2 | 84.1 | 83.2 |
| SPACA5B | 103 | 116.9 | 94.9 | 91 | 82.5 | 76.8 | 98.5 | 108.3 |
| SPAG1 | 287.3 | 302.5 | 147.3 | 137.7 | 117.1 | 145.1 | 241.1 | 397.8 |
| SPAG1 | 123.7 | 120.9 | 116.2 | 109.2 | 117.5 | 101.9 | 111.8 | 119.5 |
| SPAG1 | 122.7 | 130 | 96.7 | 82 | 77.1 | 83 | 104.9 | 105.3 |
| SPAG11 | 80.7 | 92.7 | 89.2 | 83.4 | 79.2 | 76.2 | 86.9 | 85.1 |

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|----------|--------|--------|-------|-------|-------|-------|--------|--------|
| SPAG11A | 94.1 | 130.4 | 107.9 | 98.8 | 92.2 | 101 | 97.4 | 105.6 |
| SPAG16 | 88.2 | 108.4 | 84.4 | 85.9 | 74.8 | 80.6 | 89.9 | 99.3 |
| SPAG16 | 141.4 | 165.7 | 108.3 | 86.7 | 88.4 | 88 | 135.4 | 191 |
| SPAG16 | 99.2 | 97 | 105.1 | 94.2 | 90 | 92.7 | 101.9 | 96.5 |
| SPAG17 | 85.3 | 111.3 | 94.2 | 91.6 | 98.8 | 79 | 81.4 | 92.5 |
| SPAG4 | 112.6 | 144.8 | 102.7 | 97.3 | 104.4 | 115.4 | 119.6 | 120.8 |
| SPAG4L | 97.8 | 105.2 | 97.7 | 99.4 | 92.3 | 103.9 | 87.8 | 103 |
| SPAG5 | 392.2 | 478.8 | 199.1 | 158.2 | 157.2 | 206.7 | 313.2 | 499.2 |
| SPAG6 | 148.1 | 181.5 | 101.4 | 92.9 | 90.1 | 102.4 | 119.8 | 176.6 |
| SPAG6 | 144.7 | 173.4 | 133.6 | 107.7 | 102.8 | 128.6 | 122.9 | 138.4 |
| SPAG7 | 360.4 | 414.8 | 253.4 | 260.1 | 259.8 | 327.9 | 324.8 | 411.3 |
| SPAG8 | 83.7 | 96 | 99.6 | 75.7 | 87.8 | 102.9 | 92.7 | 84.6 |
| SPAG8 | 92 | 104.8 | 89 | 89.4 | 86.4 | 85.3 | 93.4 | 87.6 |
| SPAG9 | 244.4 | 486.3 | 282.1 | 258.6 | 261 | 331 | 327.5 | 390.1 |
| SPAG9 | 191.9 | 254.9 | 107.4 | 119.1 | 116.9 | 168.6 | 176.4 | 281.4 |
| SPAG9 | 1082.6 | 1654.8 | 714.7 | 839.8 | 689 | 1164 | 1203.2 | 1906.1 |
| SPAM1 | 95.5 | 113.8 | 105.7 | 90.9 | 95.1 | 90.8 | 81.7 | 88.2 |
| SPAM1 | 84 | 89.4 | 82.3 | 90 | 100.8 | 79.8 | 81.8 | 87.9 |
| SPANXA1 | 78.9 | 93.5 | 88 | 89.4 | 83.2 | 81 | 85 | 92.6 |
| SPANXB1 | 79.3 | 82.4 | 92.4 | 79.7 | 80.1 | 89.5 | 74.6 | 80.5 |
| SPANXC | 79.6 | 90.4 | 92.4 | 90.8 | 71.3 | 86.7 | 84.8 | 77.4 |
| SPANXE | 88.7 | 83.9 | 93.5 | 94.4 | 83.9 | 97.5 | 87.9 | 83 |
| SPANX-N1 | 75.6 | 83.6 | 94.7 | 88.3 | 77.5 | 84 | 79.9 | 84 |
| SPANX-N2 | 81 | 79.8 | 95.9 | 84.2 | 86.2 | 87.1 | 73.9 | 75.7 |
| SPANX-N3 | 82.3 | 89.2 | 82.9 | 79 | 75.7 | 85.7 | 87.1 | 90.9 |
| SPANX-N4 | 74.2 | 81.2 | 84.3 | 79.4 | 75.3 | 81 | 74.1 | 89.5 |
| SPANX-N5 | 79.6 | 88.9 | 91.4 | 88.8 | 79.9 | 75.2 | 80.4 | 84.4 |
| SPARC | 80.7 | 87.4 | 84.6 | 79.8 | 85.8 | 84.7 | 106.6 | 110.2 |
| SPARCL1 | 85.2 | 92.7 | 83.5 | 82.1 | 83.6 | 81.4 | 82.7 | 89.5 |
| SPAST | 117 | 145.1 | 112.1 | 139 | 110 | 144.7 | 143.1 | 186.5 |
| SPAST | 105.7 | 122.6 | 108.5 | 97.6 | 86.9 | 98 | 100.5 | 105.4 |
| SPATA1 | 96.4 | 108 | 98.2 | 100.6 | 81.7 | 85.2 | 95.6 | 101.9 |
| SPATA12 | 83.5 | 101.2 | 101.1 | 87.3 | 79.5 | 91.2 | 92.1 | 93.4 |
| SPATA13 | 123.6 | 130.9 | 99.6 | 92.6 | 90.6 | 90.2 | 116.8 | 125.5 |
| SPATA16 | 93.4 | 101.8 | 90.5 | 95.3 | 83.6 | 74.7 | 96.5 | 91.2 |
| SPATA18 | 81.8 | 79.7 | 94.8 | 95.1 | 100 | 102.5 | 86.5 | 85.4 |
| SPATA19 | 93.1 | 112.4 | 93.1 | 92.3 | 79.9 | 92.7 | 97.2 | 106.4 |
| SPATA2 | 156 | 219.6 | 193.4 | 199.6 | 167.3 | 244.2 | 162.9 | 271 |
| SPATA20 | 693.8 | 895.4 | 555.6 | 548.5 | 527.1 | 705.1 | 469.6 | 509 |
| SPATA21 | 95.4 | 83.5 | 90.8 | 86.9 | 83.4 | 90.8 | 83.8 | 82.5 |
| SPATA22 | 81.2 | 76.6 | 102 | 92.2 | 94.9 | 91.5 | 79.7 | 83.4 |
| SPATA3 | 95.2 | 104.2 | 93.8 | 92.2 | 85.6 | 93.7 | 101.2 | 100.3 |
| SPATA4 | 85.9 | 94.8 | 103.7 | 100.6 | 91.4 | 99.6 | 89.6 | 82.7 |
| SPATA5 | 116.6 | 124.6 | 92.3 | 81 | 87.2 | 79.6 | 103.7 | 118.9 |
| SPATA5L1 | 676.1 | 872.4 | 622.7 | 610 | 442.4 | 866.7 | 574.1 | 1354.9 |
| SPATA6 | 115.8 | 137.4 | 94.3 | 86.4 | 75.5 | 95.8 | 112.3 | 118.8 |
| SPATA7 | 371.8 | 456.1 | 313.4 | 262.5 | 258 | 307.3 | 232.9 | 333.4 |
| SPATA7 | 100.1 | 133.1 | 84.5 | 95.4 | 85.9 | 87.2 | 103 | 112.7 |
| SPATA7 | 144.1 | 172.2 | 112.5 | 106.2 | 98.4 | 124.6 | 116.3 | 135.4 |
| SPATA8 | 89.9 | 90.3 | 110.4 | 101.9 | 103.6 | 106.6 | 84.7 | 85.9 |

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|----------|--------|--------|--------|--------|--------|--------|--------|---------|
| SPATA9 | 106.6 | 124.3 | 95.1 | 94.3 | 91.1 | 95.7 | 96.6 | 117.7 |
| SPATC1 | 100.6 | 115.3 | 82.6 | 85.6 | 82.1 | 87.4 | 105.6 | 114 |
| SPATC1 | 96.9 | 105.1 | 101 | 92.4 | 95.2 | 100.6 | 102.8 | 105.4 |
| SPATS1 | 72.2 | 84.3 | 80.4 | 78.7 | 67.6 | 78 | 71.2 | 87.2 |
| SPATS2 | 130.8 | 157 | 118.3 | 112.4 | 103.3 | 110.1 | 128 | 166.3 |
| SPC24 | 1767.3 | 2070.4 | 954 | 676 | 560.6 | 467.3 | 1277 | 1203 |
| SPC25 | 332.4 | 325.7 | 268.9 | 107 | 91 | 131.8 | 242.3 | 392.4 |
| SPCS1 | 8818.9 | 11697 | 8739 | 8277 | 5467 | 7830.5 | 7724.1 | 16137.1 |
| SPCS2 | 96.7 | 109.1 | 100.5 | 92.4 | 80.8 | 82.5 | 93.3 | 99.8 |
| SPCS3 | 536.9 | 600.5 | 271.8 | 206.5 | 162.3 | 222.8 | 324.3 | 670.9 |
| SPDEF | 83.7 | 93.2 | 88.9 | 80.8 | 86.7 | 89.2 | 90.1 | 82.1 |
| SPDY1 | 112.5 | 129.4 | 110 | 105.1 | 106.5 | 101.6 | 113.4 | 110.7 |
| SPDY1 | 86.6 | 87.3 | 98.3 | 85.8 | 91.6 | 89.3 | 86.6 | 89.3 |
| SPDY1 | 69.3 | 78.5 | 88.4 | 88.8 | 84.6 | 82.8 | 71.9 | 78.8 |
| SPECC1 | 121.8 | 161.4 | 108.9 | 94.8 | 94.3 | 94.1 | 130.7 | 142.2 |
| SPECC1 | 109.2 | 128.6 | 107 | 86.9 | 91.4 | 102.3 | 109.4 | 139.3 |
| SPEN | 628.4 | 893.4 | 652.5 | 1213.2 | 1020.7 | 1403 | 737.9 | 907.7 |
| SPERT | 98.8 | 113.5 | 102.1 | 105.9 | 91.5 | 93.5 | 91.5 | 104.4 |
| SPESP1 | 81.3 | 100.4 | 94 | 84.1 | 80.8 | 95 | 89.5 | 97.5 |
| SPFH1 | 269.2 | 334.6 | 170.8 | 139.2 | 127.4 | 164.8 | 248.1 | 314.5 |
| SPFH2 | 189.6 | 206.5 | 106.6 | 105.4 | 104 | 106.3 | 146.4 | 163 |
| SPFH2 | 866 | 1093.9 | 579.9 | 745.5 | 481.7 | 887.8 | 673.1 | 897.2 |
| SPG20 | 238.9 | 282.8 | 142.8 | 161.6 | 127.4 | 172.6 | 233.9 | 347.7 |
| SPG21 | 468.1 | 647.7 | 220.8 | 132.9 | 131.3 | 127.1 | 337.1 | 414.4 |
| SPG21 | 1720.9 | 2375.6 | 979 | 809.1 | 701.7 | 773.9 | 1116.9 | 1339.5 |
| SPG3A | 214.5 | 237.4 | 131.2 | 132.1 | 104 | 141.3 | 178.6 | 257.1 |
| SPG7 | 178 | 195.8 | 215 | 173.4 | 163.7 | 228.3 | 144.3 | 179 |
| SPG7 | 114.1 | 137.8 | 100.1 | 100.3 | 109.6 | 101.2 | 101.4 | 143.5 |
| SPG7 | 1048.6 | 1211.2 | 849.5 | 847.7 | 1008 | 1012.8 | 795.9 | 679.2 |
| SPHAR | 214.8 | 269.2 | 131.4 | 138.2 | 117.1 | 116.4 | 196.5 | 245.2 |
| SPHK1 | 103 | 131.6 | 116 | 129.6 | 105.2 | 129.3 | 115.3 | 149 |
| SPHK1 | 87.4 | 98.1 | 83.5 | 82.5 | 79.7 | 93.8 | 95.8 | 99.7 |
| SPHK2 | 1777.3 | 2170.5 | 1292.8 | 764.9 | 580.4 | 627.9 | 1454.7 | 1425.8 |
| SPI1 | 596.1 | 799.2 | 413.3 | 276.2 | 226.3 | 363.2 | 592.2 | 1451.8 |
| SPI1 | 1547.9 | 1824.9 | 947.1 | 682.7 | 458.5 | 708.7 | 1387.2 | 2857.7 |
| SPIB | 155.6 | 182.1 | 174.6 | 112.1 | 109.5 | 114.5 | 127 | 203.3 |
| SPIC | 83.8 | 99.4 | 95.5 | 93.6 | 91 | 91.2 | 81.4 | 83.7 |
| SPIN | 320.9 | 462.1 | 188.1 | 239.3 | 197.4 | 125.5 | 316.3 | 458.5 |
| SPIN1 | 1153.4 | 1357.1 | 531.6 | 619.4 | 532.7 | 550.8 | 914.5 | 876.3 |
| SPIN2 | 82.8 | 97.8 | 102.6 | 88.3 | 84.4 | 88.5 | 83.8 | 80.9 |
| SPIN-2 | 108.3 | 151.2 | 87.8 | 79.8 | 81.2 | 98.5 | 112.6 | 169.3 |
| SPIN2B | 104.7 | 122.7 | 101.8 | 99.6 | 82.1 | 93.2 | 94 | 93.6 |
| SPINK1 | 103.7 | 103 | 101.5 | 80.5 | 82.9 | 84.4 | 96.4 | 99.6 |
| SPINK2 | 93.3 | 103.5 | 87 | 87.4 | 90 | 87.1 | 92.4 | 97.5 |
| SPINK4 | 84.4 | 88 | 85.5 | 77.5 | 89.6 | 81.3 | 81.4 | 80.4 |
| SPINK5 | 111 | 125.1 | 109.7 | 98.7 | 86.6 | 87.3 | 103.3 | 120.9 |
| SPINK5L2 | 82.2 | 90.2 | 94.8 | 90.8 | 95.2 | 89.2 | 82.8 | 89.1 |
| SPINK6 | 87.4 | 102.1 | 93.8 | 94.2 | 87.6 | 98.9 | 89.6 | 94 |
| SPINK7 | 82.7 | 84 | 82.5 | 88.2 | 82.3 | 86.9 | 77.2 | 88 |
| SPINK9 | 96.8 | 114.3 | 114.8 | 95.2 | 97.3 | 96.9 | 112.8 | 105.6 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| SPINLW1 | 78.3 | 91.9 | 84.8 | 93.5 | 76.6 | 88.4 | 79.1 | 85 |
| SPINLW1 | 119.9 | 125.1 | 145.5 | 144.8 | 130.7 | 133 | 121.7 | 116.9 |
| SPINLW1 | 95.2 | 109.4 | 90.7 | 87.7 | 84.3 | 81 | 93.2 | 104.1 |
| SPINT1 | 98.7 | 113.1 | 90.2 | 88.1 | 84.3 | 81.7 | 92.2 | 118.6 |
| SPINT1 | 113 | 117.4 | 125.2 | 106 | 101.7 | 123.8 | 101.8 | 126.1 |
| SPINT2 | 213 | 265.3 | 186.3 | 145.5 | 137.4 | 156.5 | 202.6 | 247.1 |
| SPINT4 | 80.6 | 93.4 | 90.8 | 82.6 | 88.8 | 87.4 | 86.4 | 93.9 |
| SPIRE1 | 621.6 | 790.5 | 521 | 457 | 378 | 659.6 | 543.3 | 856.8 |
| SPIRE2 | 101.9 | 111.4 | 123.5 | 90 | 97.6 | 107.5 | 101.9 | 123.2 |
| SPN | 2127 | 2638.8 | 1708.3 | 1009.4 | 932.8 | 599.2 | 1754.1 | 2724.9 |
| SPN | 140.5 | 169.3 | 98.5 | 95.2 | 86.4 | 94.7 | 118.1 | 168.4 |
| SPN | 179.3 | 227.9 | 113.3 | 120.9 | 115.3 | 88.1 | 150.1 | 212.2 |
| SPO11 | 98.5 | 108.2 | 93.1 | 86.1 | 83.3 | 87.8 | 98.7 | 102.6 |
| SPO11 | 109.3 | 128.4 | 118 | 105.1 | 106 | 102.9 | 116.8 | 121.4 |
| SPOCD1 | 183 | 223 | 87.2 | 85.9 | 91.6 | 91.3 | 196.4 | 209.5 |
| SPOCK | 204.6 | 234.5 | 176.6 | 627.8 | 542.7 | 660.7 | 198.7 | 261.6 |
| SPOCK2 | 105.2 | 123.1 | 105.7 | 104.9 | 101 | 106.8 | 107 | 115.7 |
| SPOCK3 | 77.7 | 83.3 | 82.6 | 75.8 | 74.2 | 78 | 79.2 | 87.8 |
| SPON1 | 81.1 | 96.9 | 94.3 | 89.9 | 86.1 | 100.1 | 85.6 | 103.6 |
| SPON2 | 91.4 | 113 | 84.1 | 88.3 | 79.6 | 83.7 | 93.9 | 109.7 |
| SPOP | 2451.3 | 3260.3 | 1693.5 | 2112.8 | 1954.3 | 2247.1 | 2253.5 | 2400.6 |
| SPOP | 87 | 102.3 | 86.1 | 93.5 | 89.7 | 97.4 | 87.4 | 102.7 |
| SPP1 | 121.8 | 157.3 | 106.9 | 114.1 | 127.5 | 193.1 | 110 | 126 |
| SPP1 | 129.2 | 161.3 | 110.2 | 105.5 | 119.4 | 144.7 | 110.4 | 119.4 |
| SPP2 | 84.7 | 89.2 | 96.7 | 85.1 | 76.8 | 79.8 | 88.9 | 89.8 |
| SPPL2A | 1696.2 | 2191.6 | 1143.8 | 1181 | 1004.9 | 1496.3 | 1355.1 | 2676.2 |
| SPPL2B | 99.3 | 110 | 111.5 | 105.5 | 105.3 | 99.3 | 94.4 | 113.3 |
| SPPL2B | 86.8 | 89.8 | 99.8 | 92.8 | 82.8 | 92.9 | 93.5 | 89.6 |
| SPPL2B | 124.8 | 139.1 | 105.6 | 126.6 | 119.5 | 133.4 | 113.6 | 149.3 |
| SPPL3 | 149.4 | 162 | 88.7 | 100.6 | 92.8 | 92 | 139.3 | 168.1 |
| SPR | 563.1 | 763.6 | 313.1 | 172 | 146.5 | 253.7 | 540.2 | 727.4 |
| SPRED1 | 316 | 416 | 230.2 | 101.1 | 103.3 | 113.8 | 329.8 | 451.9 |
| SPRED2 | 308 | 402.3 | 220.6 | 233.1 | 195.2 | 239.1 | 286.9 | 289 |
| SPRED3 | 102.3 | 113.8 | 96.7 | 79.4 | 89 | 95.3 | 112.1 | 124.7 |
| SPRED3 | 92.3 | 100.5 | 95.7 | 90.8 | 83 | 90.5 | 85.8 | 96.2 |
| SPRED3 | 88.7 | 95 | 99.1 | 97 | 85.7 | 84.6 | 80.5 | 90 |
| SPRN | 103.5 | 111 | 101.3 | 94.9 | 98.2 | 99.1 | 96.1 | 113.9 |
| SPRR1A | 106.3 | 129.3 | 83.7 | 87.7 | 73 | 75.7 | 113.5 | 133.4 |
| SPRR1B | 147.2 | 160.4 | 117.1 | 117.4 | 108.8 | 111.5 | 137.8 | 136.6 |
| SPRR2A | 82.6 | 90.8 | 93.1 | 77.5 | 83.6 | 86.4 | 77.1 | 80.3 |
| SPRR2B | 86.3 | 102.5 | 97 | 96.9 | 87.9 | 96.7 | 85 | 90.2 |
| SPRR2C | 84.6 | 96.1 | 92.5 | 79.3 | 88.2 | 88.5 | 74.9 | 81.1 |
| SPRR2D | 78.2 | 87.2 | 88 | 79.5 | 76.7 | 78.5 | 76.4 | 105.1 |
| SPRR2E | 77.8 | 82.6 | 84.8 | 77.3 | 82.1 | 86.1 | 74.3 | 68.3 |
| SPRR2F | 124.3 | 134.3 | 90.6 | 80 | 83 | 90.9 | 116.6 | 143.9 |
| SPRR2G | 82.8 | 112.7 | 102.6 | 98.5 | 91.5 | 90.5 | 87.8 | 109.3 |
| SPRR3 | 112.4 | 130.2 | 108.9 | 84.5 | 95.7 | 106.3 | 101.5 | 110.8 |
| SPRR4 | 100.4 | 120.4 | 94.3 | 89.8 | 87.2 | 83.5 | 103.3 | 115.1 |
| SPRY1 | 87 | 104 | 91.2 | 91.5 | 88.5 | 85.3 | 85.2 | 96.9 |
| SPRY1 | 108.3 | 119.2 | 106.6 | 98 | 94.7 | 105.1 | 98.4 | 95.1 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| SPRY2 | 862.7 | 896.5 | 328.5 | 272.2 | 168.7 | 265.9 | 730.5 | 1166.6 |
| SPRY3 | 85.3 | 97.6 | 87.2 | 93.3 | 97.8 | 92.9 | 97.7 | 91.1 |
| SPRY4 | 134 | 150.8 | 157 | 167.8 | 112.9 | 207.3 | 153.1 | 226 |
| SPRYD3 | 512.8 | 689.1 | 292.3 | 228 | 192.8 | 227.7 | 373 | 232.6 |
| SPSB1 | 108.5 | 133.6 | 100 | 100.1 | 96.8 | 112.9 | 124.2 | 179.7 |
| SPSB2 | 133.9 | 135.5 | 160.6 | 146.4 | 153.3 | 191 | 112.2 | 224.8 |
| SPSB3 | 972.7 | 1211.9 | 633.4 | 579.7 | 766.3 | 729.8 | 1005.4 | 649.6 |
| SPSB4 | 113.9 | 141.9 | 101.1 | 90.7 | 97 | 86.3 | 111.4 | 124.5 |
| SPTA1 | 139.5 | 183.1 | 94.2 | 93.8 | 78.3 | 92.8 | 150.6 | 202 |
| SPTAN1 | 182.9 | 233.9 | 266.3 | 300.1 | 283.8 | 407.8 | 171.9 | 284 |
| SPTB | 103.1 | 110.3 | 102.1 | 88.6 | 87.2 | 88.9 | 105.2 | 123 |
| SPTB | 103 | 117 | 103.3 | 91 | 86.2 | 83.8 | 111.8 | 109.4 |
| SPTBN1 | 115.6 | 136.2 | 95.4 | 94.5 | 85.1 | 95.8 | 112.8 | 117.3 |
| SPTBN1 | 113.8 | 150.6 | 100.1 | 100.2 | 90.2 | 82.6 | 104.5 | 113.6 |
| SPTBN1 | 166.3 | 261.3 | 191.7 | 149.8 | 150.7 | 206 | 170.1 | 195.4 |
| SPTBN2 | 89.7 | 111.6 | 92.9 | 102.5 | 94.3 | 94.6 | 100.2 | 109.6 |
| SPTBN4 | 83.1 | 107.2 | 88.9 | 87.2 | 91.2 | 94.1 | 90.3 | 99 |
| SPTBN4 | 87.4 | 93.6 | 85.6 | 87.1 | 81.4 | 88.1 | 92.1 | 102.5 |
| SPTBN5 | 91.3 | 115.6 | 95.8 | 85.5 | 85 | 85.7 | 90.4 | 109.7 |
| SPTLC1 | 2999.4 | 3354.5 | 1214.2 | 1491.9 | 1903.2 | 1716.5 | 3006.2 | 4700.7 |
| SPTLC1 | 386.5 | 497.4 | 194.1 | 167.4 | 153.4 | 247.8 | 271.3 | 367.9 |
| SPTLC1 | 675.9 | 843.5 | 301.6 | 222 | 168.5 | 220.3 | 467 | 772.6 |
| SPTLC2 | 159.2 | 216 | 156.3 | 170.9 | 142.6 | 183.9 | 147.4 | 163.1 |
| SPTLC3 | 96.6 | 110.1 | 87.6 | 86.7 | 81 | 85 | 102.5 | 103.2 |
| SPTY2D1 | 190.7 | 341.6 | 177.7 | 171.8 | 137.6 | 148.8 | 273.7 | 350.6 |
| SPZ1 | 85.2 | 91.5 | 90 | 96.6 | 83.1 | 93 | 91.2 | 94.9 |
| SQLE | 2932.9 | 4622.8 | 1842.3 | 2413.1 | 2216.7 | 3670 | 2801.9 | 5105.7 |
| SQRDL | 769.5 | 1012.2 | 379.9 | 379 | 272.3 | 420.1 | 991.8 | 1500 |
| SQSTM1 | 1353.3 | 1714 | 596.1 | 545.7 | 469.4 | 455.6 | 2694.5 | 3643.5 |
| SR140 | 1496.1 | 1907.2 | 1044.3 | 1148.9 | 979.7 | 2184.6 | 1147.5 | 1622.9 |
| SRA1 | 296.9 | 365.5 | 188.7 | 191.5 | 159.7 | 226.1 | 289.1 | 352.5 |
| SR-A1 | 98.7 | 112.4 | 113.7 | 106.6 | 104.7 | 105.3 | 89.6 | 121.7 |
| SRC | 83.8 | 97.1 | 93.6 | 88 | 73.5 | 84.6 | 74.2 | 90.3 |
| SRC | 127.6 | 148.5 | 103.4 | 99 | 94 | 95.3 | 120.7 | 118.7 |
| SRC | 170.4 | 238.6 | 178.5 | 153.1 | 154.5 | 203.4 | 171.5 | 270.8 |
| SRCAP | 107.8 | 136.7 | 94.9 | 89.1 | 91.6 | 97.4 | 111.6 | 145.1 |
| SRCRB4D | 107.3 | 116.9 | 87.3 | 87.8 | 84.8 | 83.6 | 108.8 | 114.9 |
| SRD5A1 | 102.5 | 131 | 101.7 | 99.3 | 98.2 | 106 | 104.7 | 133.7 |
| SRD5A2 | 110.1 | 130.4 | 92.4 | 90.1 | 84.4 | 89.5 | 106.7 | 111.9 |
| SRD5A2L | 265.8 | 326.6 | 153.6 | 141.5 | 127.6 | 139.2 | 256.4 | 356.2 |
| SRD5A2L2 | 86.8 | 93 | 88.1 | 79.9 | 80.5 | 86.6 | 79.4 | 84.9 |
| SREBF1 | 296.8 | 337.4 | 284.2 | 262.1 | 275.3 | 325.7 | 258.8 | 479.8 |
| SREBF1 | 120.4 | 108 | 87.3 | 75 | 90.7 | 79.5 | 92.6 | 118.1 |
| SREBF1 | 130.1 | 144.7 | 150.6 | 126 | 136.9 | 178.6 | 111.5 | 144.5 |
| SREBF2 | 160.1 | 215.2 | 105.1 | 111.1 | 100.6 | 102.8 | 168.7 | 180.5 |
| SRF | 2609.5 | 3153.2 | 1964 | 1703.6 | 1585.7 | 2206.5 | 2251.5 | 2183 |
| SRFBP1 | 571.3 | 837.6 | 338.4 | 496.5 | 363.4 | 358.9 | 453.8 | 681.2 |
| SRGAP1 | 85.7 | 96.5 | 92.7 | 97.5 | 84 | 86.8 | 90.6 | 94.1 |
| SRGAP2 | 362.5 | 452.9 | 249.1 | 253.7 | 265.5 | 359 | 351.2 | 447.8 |
| SRGAP2 | 83.1 | 99.4 | 90.7 | 80.4 | 86.5 | 78.3 | 92.6 | 95.7 |

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|---------|---------|---------|--------|---------|--------|---------|---------|---------|
| SRGAP2 | 148.5 | 188 | 100.7 | 103.1 | 103.9 | 125.7 | 142.8 | 188.7 |
| SRGAP2 | 84.1 | 108.5 | 102.5 | 85.5 | 83.6 | 91.4 | 106.9 | 111.5 |
| SRGAP3 | 127.7 | 159.2 | 120.2 | 136.7 | 140.5 | 120.5 | 117.3 | 110.5 |
| SRGAP3 | 100 | 115.1 | 114.8 | 112.1 | 91.2 | 107.2 | 106.5 | 113.7 |
| SRGN | 30551.5 | 29009.4 | 15288 | 13348.4 | 11452 | 13405.7 | 30575.4 | 30312.7 |
| SRI | 73.2 | 80.9 | 88.1 | 86.2 | 80.8 | 81.6 | 77.1 | 86.1 |
| SRI | 393.7 | 519 | 243.8 | 200.7 | 170.6 | 238.4 | 342.8 | 341.5 |
| SRI | 348.4 | 455.2 | 282.6 | 398.9 | 296.2 | 485.3 | 271.6 | 443.2 |
| SRM | 1111.2 | 1501.7 | 1355.5 | 793 | 560.2 | 738.7 | 1044.8 | 2972.7 |
| SRMS | 116.2 | 139 | 98.8 | 89.8 | 92.1 | 91.8 | 105.1 | 119.4 |
| SRP14 | 9874.8 | 13040.5 | 6177.7 | 6647 | 5778.3 | 8241.6 | 9565.1 | 10507 |
| SRP14P1 | 5062.3 | 6288.8 | 1440.9 | 1675.3 | 1389.2 | 2016.2 | 4778.4 | 5574.2 |
| SRP19 | 1937.2 | 2025.2 | 929.2 | 852.2 | 684.4 | 1028.8 | 1796.2 | 3006.7 |
| SRP46 | 1081.6 | 1565.2 | 902.8 | 743.7 | 550.7 | 941.2 | 859.9 | 1360.3 |
| SRP54 | 2531.7 | 3645.1 | 1697.4 | 1491.4 | 1151.4 | 2134.9 | 1996.7 | 2958.1 |
| SRP68 | 1626.1 | 2171.5 | 1327 | 1246.4 | 933.2 | 1737.5 | 1491.4 | 1953.4 |
| SRP72 | 929.6 | 1164.6 | 311.9 | 295.1 | 264.3 | 474.4 | 662.2 | 1114.3 |
| SRP9 | 15146.7 | 17213.2 | 7749 | 8468.6 | 6182 | 9583.8 | 13702.9 | 19713.8 |
| SRPK1 | 2745.7 | 3653.6 | 1443.2 | 1752.1 | 1192.5 | 2089.4 | 2154.4 | 3018.3 |
| SRPK2 | 209.9 | 274.3 | 121.7 | 120.2 | 123.2 | 126.3 | 158.8 | 194 |
| SRPK2 | 183.2 | 256.1 | 116.2 | 104.6 | 107.7 | 99.5 | 183.1 | 195.2 |
| SRPK2 | 130.2 | 152.4 | 112.4 | 115.1 | 95.3 | 127.8 | 127.4 | 225 |
| SRPR | 804.7 | 1072.9 | 766.9 | 361.5 | 288.3 | 459.3 | 696.3 | 1144 |
| SRPRB | 3823.9 | 5224.8 | 2872 | 1701.5 | 1101.9 | 1811.4 | 3696.6 | 3948 |
| SRPX | 117.9 | 141.9 | 127.5 | 94.7 | 89.2 | 111.8 | 168.6 | 216.7 |
| SRPX2 | 108.1 | 120.8 | 95.1 | 89 | 75 | 91.9 | 91.7 | 109.4 |
| SRR | 170.4 | 180.3 | 125.4 | 118.6 | 113.6 | 137.2 | 132.1 | 214.8 |
| SRRM1 | 3610.8 | 4288.2 | 2149.5 | 2561.8 | 1823.6 | 2956 | 2776.3 | 4566.2 |
| SRRM2 | 2124.3 | 1867.6 | 2541.9 | 3198.1 | 2719.3 | 3889 | 1194 | 2306.5 |
| SRRP35 | 136.9 | 172.7 | 103.4 | 101.4 | 95.7 | 131.3 | 133 | 149.3 |
| SRXN1 | 366.6 | 484.2 | 344.9 | 219.1 | 182 | 315 | 864.4 | 2396.1 |
| SRY | 107.1 | 120.1 | 92 | 80.9 | 82.5 | 89 | 101.2 | 104.6 |
| SS18 | 137.9 | 170.4 | 127.7 | 98 | 101.5 | 108.8 | 147.6 | 109.6 |
| SS18 | 148.3 | 153.6 | 114.3 | 111.1 | 108.7 | 122.5 | 114.6 | 148.6 |
| SS18L1 | 339.1 | 364.4 | 163.7 | 224.6 | 165.3 | 262.8 | 270.4 | 458.6 |
| SS18L1 | 122 | 144.6 | 90.1 | 72.2 | 80.5 | 84.5 | 105.1 | 132.8 |
| SS18L2 | 7943.4 | 9240.7 | 6852.3 | 6345.1 | 4414.1 | 6012.6 | 7404.1 | 9129.2 |
| SSB | 101.7 | 90.6 | 95.7 | 80.5 | 80 | 89.8 | 92.8 | 114.1 |
| SSBP1 | 6376.1 | 7067.6 | 2613.1 | 2753 | 1547.5 | 3116.6 | 6043.6 | 10039.2 |
| SSBP2 | 477.6 | 609.9 | 329.4 | 371.6 | 379 | 470.4 | 416.2 | 505.1 |
| SSBP3 | 137.1 | 173 | 148.8 | 173.7 | 174.3 | 209.3 | 136.1 | 190.9 |
| SSBP3 | 93.9 | 103.2 | 124.3 | 150.1 | 136.8 | 193.8 | 100.8 | 164.2 |
| SSBP4 | 483.6 | 614.8 | 457.4 | 299.6 | 244.7 | 363.3 | 324.1 | 761.7 |
| SSFA2 | 261.4 | 394.2 | 137 | 159 | 151.5 | 207.8 | 202.8 | 274 |
| SSH1 | 100.1 | 109.9 | 106.2 | 128.6 | 121.4 | 114.7 | 109.3 | 139.5 |
| SSH2 | 341.1 | 531 | 316.9 | 514.7 | 486.3 | 640 | 376 | 452.5 |
| SSH3 | 917 | 1047.2 | 479.6 | 528 | 381.5 | 534.2 | 704.5 | 807.2 |
| SSH3 | 78.9 | 86.3 | 87.6 | 77.3 | 83.8 | 78.4 | 77.5 | 88.8 |
| SSNA1 | 1114.4 | 1488.2 | 931.6 | 588.5 | 572.6 | 773.2 | 1115.3 | 1496 |
| SSPN | 94.7 | 109.2 | 97.2 | 88.9 | 85.2 | 89.3 | 101.4 | 108.9 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| SSR1 | 2029.9 | 2312.1 | 1465.3 | 1746.4 | 1164 | 2285.4 | 1926 | 3434.2 |
| SSR2 | 3497.1 | 4833.7 | 1710.1 | 1117.8 | 1030.7 | 1334.2 | 3230.1 | 3609.5 |
| SSR3 | 263.8 | 371.9 | 153.1 | 124.1 | 123.7 | 132.6 | 230.6 | 354 |
| SSR4 | 7769.1 | 9975.9 | 5608.6 | 5638.6 | 4294.4 | 5227 | 7637.3 | 10895 |
| SSRP1 | 448.2 | 522 | 289.3 | 241.5 | 206.5 | 285.9 | 363.8 | 402.1 |
| SSSCA1 | 294.5 | 324.9 | 207.2 | 130.7 | 111.7 | 137.1 | 269.1 | 304.7 |
| SST | 76.5 | 83.5 | 85.3 | 82.4 | 83.9 | 77.2 | 81.9 | 80.5 |
| SSTR1 | 88.2 | 111.2 | 89.3 | 88.2 | 78.9 | 74 | 89.4 | 101 |
| SSTR2 | 256.8 | 269.4 | 174.6 | 225.6 | 199.7 | 189.4 | 258.7 | 329.4 |
| SSTR3 | 100.6 | 117.7 | 104.5 | 93.1 | 85.6 | 98.5 | 101.3 | 109.2 |
| SSTR4 | 81.5 | 85.1 | 87.5 | 92 | 89 | 90.2 | 90 | 93.6 |
| SSTR5 | 78 | 84.8 | 89.9 | 93.6 | 85.9 | 83.5 | 80.7 | 83.7 |
| SSU72 | 3573.7 | 5376.6 | 3074 | 2453.8 | 2071.3 | 2273 | 3886.8 | 4392.4 |
| SSX1 | 79.4 | 79.5 | 98.1 | 86.6 | 75.7 | 86.8 | 84.2 | 88.1 |
| SSX2 | 105.7 | 122.3 | 107.5 | 82.1 | 83.4 | 91.2 | 105 | 101.4 |
| SSX2 | 126.2 | 150.1 | 86.1 | 85.8 | 77.2 | 84.7 | 136.9 | 150.4 |
| SSX2IP | 95.3 | 108 | 105.7 | 106 | 103.9 | 128.8 | 90.7 | 103.8 |
| SSX3 | 86.8 | 92.5 | 92.8 | 87.5 | 85.5 | 97.7 | 85.3 | 85.4 |
| SSX3 | 98.9 | 104.2 | 105.5 | 101.8 | 93.3 | 102 | 101.9 | 111.8 |
| SSX3 | 97.5 | 115.2 | 96.4 | 80.6 | 81.2 | 84 | 112.9 | 117.4 |
| SSX4 | 86 | 83.3 | 97.1 | 92.1 | 72.2 | 87.1 | 80.6 | 86.4 |
| SSX4 | 81.6 | 87.3 | 99 | 94.1 | 86.9 | 81.8 | 87.2 | 93.9 |
| SSX4B | 100.5 | 115 | 99.2 | 84.9 | 83 | 89.9 | 104.2 | 105 |
| SSX4B | 116 | 129.8 | 103.3 | 84.5 | 78.8 | 81 | 111 | 128.7 |
| SSX5 | 109.7 | 120.1 | 86.3 | 90.4 | 82.9 | 84.2 | 107.6 | 117.4 |
| SSX5 | 86.4 | 93.5 | 95.1 | 94.5 | 91.2 | 91.8 | 90.3 | 76 |
| SSX6 | 92.8 | 95.5 | 86.9 | 81.7 | 86.8 | 91.2 | 92.5 | 102.9 |
| SSX7 | 84.6 | 90.2 | 94.4 | 84.5 | 94.8 | 89.5 | 82.7 | 88.2 |
| SSX9 | 170 | 215.3 | 112 | 105 | 100 | 100.2 | 178.5 | 167.7 |
| SSX9 | 75.9 | 76.1 | 89.2 | 78.7 | 77.6 | 78 | 72.8 | 90 |
| ST13 | 1377.3 | 1754.6 | 670 | 709.9 | 563.3 | 1099.8 | 1136.2 | 1942.2 |
| ST14 | 445.1 | 585.1 | 524.5 | 369 | 313.4 | 457.2 | 421 | 510.9 |
| ST18 | 79.3 | 83.7 | 84 | 81.1 | 82 | 80.2 | 76.6 | 89.4 |
| ST3GAL1 | 275 | 375.4 | 306.6 | 446.4 | 393.6 | 661.9 | 289.2 | 525.9 |
| ST3GAL1 | 120.7 | 147.9 | 110.1 | 112.6 | 115.6 | 107.6 | 111.4 | 115.2 |
| ST3GAL2 | 114.6 | 143.5 | 111.3 | 115.8 | 114.1 | 129.3 | 113.4 | 103.6 |
| ST3GAL3 | 360.9 | 439.7 | 334 | 238.6 | 234.9 | 260.3 | 298.8 | 337.9 |
| ST3GAL3 | 1313.7 | 1811.4 | 681.7 | 556.2 | 561.3 | 637.9 | 1092 | 1068.4 |
| ST3GAL4 | 383.3 | 495.4 | 332.8 | 210.2 | 178.7 | 272.5 | 342.8 | 668.5 |
| ST3GAL5 | 135.1 | 184.4 | 111.9 | 125.3 | 107.1 | 127.3 | 142.9 | 169.4 |
| ST3GAL5 | 214.4 | 266.3 | 176.8 | 212.4 | 212.2 | 264.6 | 196.5 | 308.7 |
| ST3GAL6 | 739.6 | 874.6 | 381.4 | 459.5 | 312.7 | 602.9 | 597.8 | 889 |
| ST5 | 100.8 | 99.5 | 90.5 | 88.4 | 78.8 | 85.8 | 89.6 | 89.1 |
| ST5 | 161.5 | 221.2 | 114.2 | 111.8 | 98.1 | 113.7 | 149.8 | 176.9 |
| ST5 | 97.7 | 112.8 | 84.9 | 90.2 | 82.5 | 97.6 | 96.6 | 98 |
| ST5 | 109 | 119.5 | 108.2 | 96.3 | 99.8 | 97 | 116.5 | 122.3 |
| ST6GAL1 | 101.3 | 123 | 95.2 | 89.7 | 93.1 | 85.7 | 109 | 126.6 |
| ST6GAL1 | 524.7 | 671.7 | 445.6 | 503.6 | 307.9 | 622.3 | 408.8 | 712.4 |
| ST6GAL1 | 77.6 | 91 | 90.1 | 100.7 | 91.9 | 87.4 | 88.1 | 89.4 |
| ST6GAL2 | 83.4 | 99.5 | 98 | 84.1 | 84.6 | 92.9 | 81 | 90.8 |

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|-----------|--------|--------|-------|-------|-------|--------|--------|--------|
| ST6GALNAI | 83.9 | 91.5 | 90.7 | 79.8 | 75.5 | 80.2 | 81.7 | 88 |
| ST6GALNAI | 125.4 | 151.3 | 87.3 | 96.2 | 84.6 | 87.3 | 122.1 | 142.6 |
| ST6GALNAI | 105.4 | 124.3 | 96.7 | 85.8 | 83.7 | 91.8 | 113.1 | 143.7 |
| ST6GALNAI | 399.2 | 530.5 | 361.4 | 204 | 166.3 | 257.7 | 354.7 | 659 |
| ST6GALNAI | 126.1 | 160.2 | 123.9 | 106.3 | 95.8 | 95 | 108.8 | 135.9 |
| ST6GALNAI | 294.7 | 403.5 | 208 | 164.7 | 141.6 | 171.7 | 258.3 | 435.6 |
| ST6GALNAI | 96.1 | 118.2 | 99.1 | 88.1 | 79.6 | 92.6 | 114.5 | 119.7 |
| ST6GALNAI | 211.2 | 288.6 | 230.5 | 159 | 158.7 | 237.8 | 192.1 | 229.1 |
| ST7 | 301.8 | 357.9 | 195.9 | 172.2 | 143.3 | 218 | 268.9 | 388.1 |
| ST7 | 266.7 | 314.4 | 141.3 | 125.6 | 110.8 | 143.1 | 242.2 | 288.2 |
| ST7 | 385.2 | 517 | 309.3 | 285.9 | 211.9 | 328.5 | 314.9 | 477.9 |
| ST7L | 283.2 | 346.8 | 132.4 | 99.9 | 93.9 | 129.8 | 244.1 | 388.7 |
| ST7L | 287.7 | 332.9 | 185 | 119.3 | 112.8 | 145.2 | 245.4 | 327.8 |
| ST7L | 106.9 | 117.1 | 106.8 | 96.1 | 88.9 | 95.3 | 105.6 | 114.1 |
| ST8SIA1 | 83.7 | 96 | 91.3 | 83.9 | 79.3 | 83.8 | 79.1 | 91.4 |
| ST8SIA2 | 90.8 | 97.8 | 94 | 91.6 | 86.2 | 92.6 | 89.7 | 99.8 |
| ST8SIA3 | 108.6 | 118.3 | 106 | 108.2 | 97.9 | 98.5 | 107.1 | 110.4 |
| ST8SIA4 | 106.7 | 129.9 | 118.8 | 121.9 | 107.7 | 107.5 | 103.6 | 111.2 |
| ST8SIA4 | 69.6 | 86.2 | 92.4 | 83.4 | 86 | 84.7 | 79.9 | 77.9 |
| ST8SIA4 | 162.9 | 222.2 | 135.9 | 113.4 | 110.4 | 144.9 | 143.8 | 172.8 |
| ST8SIA5 | 188.9 | 256.7 | 131.8 | 110.7 | 104.6 | 108.7 | 192.4 | 196.3 |
| ST8SIA6 | 98 | 96.9 | 97.3 | 97.5 | 99.7 | 90.1 | 88.4 | 92.9 |
| STAB1 | 81.4 | 93.2 | 92.2 | 82.1 | 81.9 | 82 | 82.9 | 83.8 |
| STAB2 | 69.9 | 82.7 | 99.3 | 84.2 | 84.8 | 90.6 | 74.6 | 72.9 |
| STAC | 107.7 | 137.4 | 93 | 91.4 | 84.5 | 101.4 | 121.2 | 136.3 |
| STAC2 | 113.2 | 141 | 103.3 | 113.4 | 105.5 | 112.1 | 113.6 | 126.8 |
| STAC3 | 176.1 | 235.2 | 126.3 | 114.5 | 104.9 | 115.5 | 162.8 | 186.3 |
| STAG1 | 554.8 | 740.8 | 356 | 328.1 | 276.3 | 414.8 | 440.4 | 594.1 |
| STAG2 | 163.1 | 199.5 | 128.1 | 101.5 | 108.1 | 117 | 153.1 | 179.3 |
| STAG2 | 618 | 858.6 | 378.9 | 561.2 | 455.8 | 1212.7 | 586.1 | 1720.3 |
| STAG2 | 111 | 114.8 | 94.5 | 87.4 | 96.3 | 95.7 | 108.9 | 126.2 |
| STAG3 | 140.2 | 181.5 | 112.2 | 108.7 | 97.9 | 119.4 | 148.4 | 164.5 |
| STAM | 375.3 | 416.3 | 288.8 | 236.3 | 193.7 | 283 | 290.7 | 464.7 |
| STAM2 | 209.8 | 235.6 | 132.9 | 127 | 133 | 174 | 151.9 | 234.1 |
| STAMBP | 1887.6 | 2635.7 | 870.2 | 867 | 738.7 | 1149.6 | 1700.2 | 2094.4 |
| STAMBP | 100.4 | 95.8 | 93.9 | 89.6 | 77.7 | 84.9 | 85.4 | 98.5 |
| STAMBP | 848.6 | 1301.4 | 474.6 | 436.8 | 367.2 | 710.3 | 704 | 1010.8 |
| STAMBPL1 | 198 | 226.2 | 163.4 | 124 | 109 | 146.2 | 167.6 | 257.8 |
| STAP2 | 99.1 | 107.8 | 99.6 | 89.9 | 92.4 | 94.6 | 99.5 | 116.7 |
| STAP2 | 98.3 | 109.3 | 87.3 | 88.7 | 81.9 | 87.4 | 96.1 | 114.5 |
| STAP2 | 146.5 | 147.7 | 121.8 | 105.7 | 112.9 | 132.6 | 121.6 | 139 |
| STAP2 | 89.4 | 97.3 | 106.3 | 96.2 | 90.2 | 91.7 | 97.8 | 100.9 |
| STAR | 135.6 | 143.4 | 151 | 121.8 | 121.3 | 124.3 | 114.5 | 166.7 |
| STAR | 244 | 326.7 | 172.2 | 110.6 | 102.4 | 125.8 | 209.3 | 224.3 |
| STAR | 122.5 | 134.1 | 159.6 | 132.7 | 134.3 | 128.1 | 117.5 | 129.1 |
| STARD10 | 143.8 | 188.8 | 142.7 | 115.8 | 147.2 | 154.2 | 150 | 186.2 |
| STARD13 | 86.2 | 88.8 | 87.6 | 84.3 | 83.9 | 84.5 | 83.8 | 82.8 |
| STARD13 | 93.7 | 99.7 | 113.2 | 109 | 98.4 | 111.2 | 98.1 | 99.7 |
| STARD13 | 167.5 | 241.9 | 142.4 | 165.5 | 139 | 169.3 | 162.4 | 239 |
| STARD13 | 94.3 | 107 | 116.5 | 98.3 | 110.8 | 107.4 | 95.8 | 91.7 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| STARD3 | 172.1 | 187.4 | 128.2 | 118 | 103.5 | 142.6 | 175.7 | 234.7 |
| STARD3NL | 599.6 | 862.1 | 455.3 | 487.5 | 404.9 | 670.7 | 599.6 | 1073.8 |
| STARD4 | 96.5 | 108.6 | 85 | 84.4 | 78.5 | 90.3 | 93.3 | 114.5 |
| STARD5 | 76.4 | 83 | 92.6 | 81.2 | 75.7 | 83.8 | 70.2 | 92.3 |
| STARD5 | 160.7 | 212 | 149.7 | 140.2 | 128 | 136.2 | 159.2 | 199.5 |
| STARD6 | 84 | 82.4 | 86.2 | 83.9 | 81.4 | 80.8 | 83.3 | 87.8 |
| STARD7 | 4874.9 | 6359.2 | 5386.8 | 6077.3 | 5044.1 | 7543.3 | 3597.4 | 6664.9 |
| STARD7 | 1742.6 | 2469.1 | 1020.6 | 1282 | 934.3 | 2075.5 | 1549.5 | 2642.1 |
| STARD7 | 297.6 | 326.5 | 134.5 | 113.9 | 110.4 | 81.8 | 162 | 224.5 |
| STARD8 | 229.5 | 291.6 | 128.5 | 128.3 | 109.4 | 121.2 | 186.6 | 207.1 |
| STAT1 | 474.4 | 606.9 | 247.2 | 191.1 | 181.7 | 278.3 | 485.6 | 788.7 |
| STAT1 | 1107.9 | 1510.1 | 668.9 | 528.9 | 446.7 | 735.3 | 1069.5 | 1520.4 |
| STAT1 | 1782.4 | 2192.9 | 1345.4 | 1705.9 | 1336.3 | 2135.1 | 1773.2 | 2128.5 |
| STAT2 | 544.3 | 684.1 | 527 | 1655.2 | 1507.7 | 1994.5 | 414.4 | 494.6 |
| STAT3 | 515.5 | 718.3 | 618.5 | 803.1 | 674.6 | 1129.8 | 443.6 | 779 |
| STAT4 | 116.9 | 130.7 | 121.5 | 89.3 | 86.8 | 101.9 | 118.3 | 151.3 |
| STAT5A | 250.5 | 299.3 | 273.5 | 287.5 | 244.4 | 391 | 252.5 | 496.1 |
| STAT5B | 178 | 213.2 | 211.7 | 223.7 | 211 | 321.3 | 157.3 | 209.6 |
| STAT6 | 415.9 | 498.9 | 396.7 | 432.4 | 422.3 | 544.1 | 386.4 | 512.3 |
| STATH | 87.2 | 93.5 | 96.3 | 90.4 | 90.5 | 97.4 | 78.1 | 82 |
| STATIP1 | 895 | 1285.3 | 701.8 | 728.4 | 644.4 | 1064.5 | 841.8 | 1194.6 |
| STAU | 95.6 | 108.8 | 87.6 | 91.3 | 95.2 | 90.6 | 90.6 | 105.2 |
| STAU | 785.6 | 1028.2 | 633.9 | 642 | 446 | 872.7 | 718.1 | 1621.8 |
| STAU1 | 3721.5 | 4732 | 3631.9 | 4591.7 | 3179.7 | 4237.5 | 3335.1 | 4709.6 |
| STAU2 | 475.6 | 560.1 | 354.4 | 275.1 | 207.4 | 381.3 | 347.3 | 572.2 |
| STC1 | 94.9 | 106.9 | 104 | 89.4 | 90.7 | 98.1 | 83.9 | 102 |
| STC2 | 107 | 134.1 | 113.3 | 76.6 | 84.9 | 85.5 | 127.7 | 173.7 |
| STCH | 151.8 | 179.8 | 128.1 | 144.9 | 126.3 | 167.6 | 170.5 | 239.2 |
| STEAP1 | 71.3 | 78.9 | 87.9 | 83.2 | 68.8 | 79.3 | 72.4 | 86.4 |
| STEAP2 | 75.6 | 99.7 | 100.7 | 87.5 | 98.2 | 99.3 | 80.5 | 81.1 |
| STEAP2 | 80.9 | 80.5 | 90.5 | 82.3 | 80.5 | 75.6 | 71.9 | 79.7 |
| STEAP2 | 81 | 91.8 | 87.1 | 80.9 | 78.5 | 81.5 | 89.7 | 103.6 |
| STEAP3 | 86 | 110.1 | 85.9 | 77.9 | 81.1 | 79.3 | 86.1 | 98.1 |
| STEAP3 | 479.6 | 570.3 | 475.1 | 628.2 | 397.9 | 697.4 | 341.4 | 432.8 |
| STEAP3 | 82.1 | 82.7 | 85.1 | 73 | 74.2 | 85.2 | 74.2 | 90.6 |
| STEAP4 | 84.5 | 99.4 | 83.7 | 87.7 | 77.9 | 80.2 | 83.9 | 90.6 |
| STGC3 | 85.5 | 101.7 | 90.5 | 90.8 | 78.3 | 79 | 89.7 | 90.2 |
| STH | 120.3 | 151.4 | 93.2 | 95.5 | 92.2 | 94.8 | 126.9 | 138.5 |
| STIL | 1581.7 | 1964 | 1443.9 | 1681.7 | 1503.9 | 2250.4 | 1318.5 | 1979 |
| STIM1 | 295.2 | 398 | 189.4 | 222.4 | 191.2 | 276.2 | 274.6 | 388.5 |
| STIM2 | 210.2 | 237.9 | 113.1 | 117.9 | 100.6 | 143.5 | 182.6 | 217.7 |
| STIP1 | 1923 | 2649.7 | 1869.7 | 745.4 | 640.6 | 923.4 | 1698.8 | 2319.2 |
| STK10 | 191 | 270.8 | 267.8 | 253.1 | 217.1 | 291.7 | 196.7 | 290.4 |
| STK11 | 134.7 | 186.7 | 109.3 | 109.8 | 96 | 149.5 | 123.4 | 176.7 |
| STK11P | 174.8 | 202.7 | 285.7 | 259.7 | 244.3 | 351 | 158.3 | 250 |
| STK16 | 253.4 | 328.3 | 129.7 | 106.7 | 111.3 | 120 | 233.7 | 310.1 |
| STK16 | 158.8 | 186.1 | 128.9 | 106 | 89.7 | 94.1 | 151.5 | 177.4 |
| STK16 | 125.4 | 158.6 | 98.4 | 86.4 | 92.9 | 90.2 | 111.7 | 149.6 |
| STK17A | 78.7 | 95.4 | 92.5 | 83.3 | 84.2 | 85.3 | 84 | 86.9 |
| STK17B | 75.5 | 94.9 | 114.5 | 96.4 | 91.9 | 94.4 | 87.8 | 98.5 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| STK19 | 758.2 | 906.9 | 549.8 | 568.2 | 516 | 665.9 | 734.7 | 827.1 |
| STK19 | 419.8 | 636.9 | 423.7 | 418.2 | 398.1 | 506.7 | 497.8 | 629.2 |
| STK23 | 98.9 | 124.3 | 119.8 | 101.8 | 96.8 | 101.3 | 103.1 | 107.9 |
| STK24 | 88.7 | 110 | 86.4 | 87.8 | 68 | 89.9 | 85.9 | 111.1 |
| STK24 | 151.6 | 151.8 | 100.7 | 89.1 | 93.8 | 91.2 | 114 | 132.1 |
| STK24 | 5622.2 | 7265.2 | 4061.9 | 3214.4 | 2337.3 | 3007.9 | 4893.6 | 6061.1 |
| STK25 | 559.7 | 655.6 | 445.3 | 473 | 469.9 | 644.2 | 420 | 558 |
| STK3 | 907.1 | 1100.7 | 541.6 | 538.5 | 414.2 | 711.5 | 796.6 | 1616.1 |
| STK31 | 104.5 | 110.8 | 82.2 | 87.9 | 79.9 | 86.6 | 100.2 | 105.9 |
| STK31 | 117.1 | 127.7 | 104 | 108.4 | 98.6 | 94.8 | 121.9 | 124.5 |
| STK31 | 84.6 | 83.3 | 86.5 | 82.9 | 82.9 | 79.6 | 77.4 | 80.9 |
| STK32A | 82.6 | 104.7 | 83.4 | 86.7 | 68.2 | 84.9 | 88.7 | 110.3 |
| STK32B | 101.7 | 113.7 | 97.4 | 92 | 96.7 | 94.6 | 98.8 | 96.9 |
| STK32C | 173 | 176 | 120.2 | 97 | 90.1 | 99.1 | 141 | 161.6 |
| STK33 | 120.2 | 168.4 | 94.8 | 94.8 | 82.4 | 94.7 | 121.9 | 149.5 |
| STK35 | 134.8 | 162.5 | 131.6 | 122.5 | 112.7 | 128.6 | 140.3 | 177.9 |
| STK36 | 359.4 | 388.3 | 448 | 610.8 | 530.6 | 722 | 234.7 | 285.8 |
| STK38 | 571.3 | 840.1 | 641.8 | 742.7 | 651.5 | 1164 | 454.7 | 881.4 |
| STK38L | 114.9 | 122.8 | 106.9 | 99.7 | 97 | 105.2 | 105.6 | 134.4 |
| STK39 | 1103.6 | 1258.9 | 813.4 | 1059 | 782.2 | 1419.8 | 772.4 | 1127 |
| STK4 | 3244.3 | 3794.8 | 1971.2 | 2069.5 | 1574.2 | 3023.7 | 2844.6 | 3792 |
| STK40 | 627.3 | 631.7 | 683.3 | 984.6 | 803.2 | 1180.1 | 796.2 | 1567.6 |
| STK6P | 100.5 | 124.8 | 109.2 | 98 | 98.3 | 103.9 | 95.7 | 99.8 |
| STMN1 | 103.7 | 124.5 | 116.8 | 108 | 95.8 | 98 | 101.3 | 106.5 |
| STMN1 | 4434.7 | 6069.9 | 3311.6 | 2811.1 | 2190.5 | 3233.4 | 3731 | 5325.3 |
| STMN1 | 527.7 | 681.3 | 371.4 | 265.1 | 245.8 | 289.9 | 420.9 | 499.8 |
| STMN1 | 108.1 | 122 | 95.2 | 76.9 | 67.3 | 75.3 | 110.8 | 102.7 |
| STMN2 | 117.9 | 136.6 | 95.1 | 88.5 | 77 | 83.5 | 119.7 | 136 |
| STMN4 | 88.8 | 103.5 | 87.5 | 80.7 | 83.1 | 82 | 85.5 | 97.7 |
| STOM | 2128.9 | 2865.3 | 551.4 | 456.3 | 337.3 | 416.4 | 1941.9 | 2434 |
| STOM | 1101.3 | 1560.3 | 422.3 | 189.9 | 181.4 | 224.9 | 684.9 | 918.4 |
| STOML1 | 108.3 | 147.8 | 111.2 | 108.9 | 104 | 111.2 | 112.3 | 142.4 |
| STOML2 | 5326.3 | 5895.3 | 4373.9 | 2294.2 | 1682.6 | 2774 | 3993.8 | 6327.3 |
| STOML3 | 83.7 | 87.9 | 101.5 | 85.3 | 84 | 88.9 | 81.7 | 79.2 |
| STON1 | 82.5 | 85.9 | 99.5 | 87.4 | 75.4 | 86.1 | 70.6 | 81.6 |
| STON2 | 89.9 | 95.3 | 87 | 82.3 | 77.2 | 90.8 | 83.9 | 81.6 |
| STOX1 | 133.9 | 150.4 | 108.2 | 93.1 | 80.3 | 90.4 | 119.8 | 142.9 |
| STOX2 | 184.8 | 215.8 | 150.1 | 161.1 | 132.2 | 160.4 | 238.5 | 374.7 |
| STRA13 | 3445 | 4576.1 | 2896.6 | 2300.6 | 2164.5 | 2564.6 | 2970.2 | 3454 |
| STRA6 | 76.7 | 78.4 | 88.3 | 92.2 | 91.8 | 85.3 | 78.6 | 76.3 |
| STRAP | 1396 | 1652.5 | 411.7 | 372.9 | 339.1 | 504.7 | 1192.9 | 2112.9 |
| STRBP | 496.3 | 579.3 | 423.3 | 477.8 | 417.5 | 818.2 | 390.4 | 722.2 |
| STRC | 99.9 | 105.1 | 100.9 | 108.8 | 103.2 | 106 | 97.1 | 100.9 |
| STRN | 155.6 | 202.9 | 115.8 | 116.3 | 109.7 | 126.4 | 140.4 | 207.1 |
| STRN3 | 936.2 | 1206.8 | 570 | 555.7 | 517.1 | 770.6 | 686.6 | 1075.9 |
| STRN4 | 152.7 | 182.2 | 174.7 | 124.5 | 122.5 | 181.9 | 161.5 | 335.5 |
| STRN4 | 155 | 170.5 | 108.6 | 102.4 | 99.2 | 112.7 | 155.9 | 184.7 |
| STS | 96.3 | 115.3 | 97.8 | 92.1 | 98.2 | 93.1 | 95.9 | 112.6 |
| STS-1 | 379.9 | 475 | 257.2 | 375.1 | 289.6 | 432.7 | 289.6 | 300.4 |
| STT3A | 3064.5 | 4573 | 1851.8 | 1461.3 | 1117 | 1953.5 | 2436.9 | 3302 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| STT3B | 769.8 | 1097.1 | 275.9 | 335.4 | 256.1 | 466.4 | 554.2 | 922.5 |
| STUB1 | 1528 | 1771 | 1183.1 | 842.9 | 658.6 | 1013.5 | 1222.4 | 1679 |
| STX10 | 680.1 | 869.3 | 737.7 | 727.2 | 701.9 | 999.8 | 641.1 | 715.3 |
| STX11 | 280.1 | 386.3 | 245.1 | 283.3 | 251.3 | 373.5 | 342.2 | 770.4 |
| STX12 | 448.3 | 536.6 | 234.1 | 234.9 | 204.2 | 268.3 | 400 | 536.2 |
| STX16 | 125.4 | 122.6 | 89.4 | 87.4 | 93 | 79.1 | 98.5 | 128.6 |
| STX16 | 2779.3 | 2462.6 | 1712.5 | 2620.7 | 2849.7 | 2908 | 1874.4 | 1965.7 |
| STX17 | 121.2 | 153.6 | 112.9 | 102.9 | 89.6 | 97.1 | 118.1 | 165.2 |
| STX18 | 124.8 | 168.8 | 106.1 | 101.4 | 95 | 118.5 | 110.6 | 137.4 |
| STX19 | 117.6 | 142.6 | 116.5 | 113.1 | 104.7 | 114.2 | 120.4 | 138 |
| STX1A | 112.3 | 131.3 | 118.2 | 110.2 | 112.6 | 136.8 | 131.3 | 159.3 |
| STX1B2 | 79 | 91.5 | 93.6 | 87.8 | 87.1 | 88.8 | 86.7 | 91.1 |
| STX2 | 406.5 | 427.2 | 326.2 | 338.3 | 348.6 | 449.9 | 295.3 | 362 |
| STX2 | 317.7 | 360.9 | 219.1 | 273.5 | 254.5 | 359 | 286 | 399.9 |
| STX3A | 516.1 | 621.5 | 252.7 | 291.7 | 240.6 | 401.3 | 631.3 | 950 |
| STX4A | 1353.1 | 1602.8 | 834.2 | 628.1 | 553.2 | 651 | 1300.7 | 1437.3 |
| STX5A | 1394.2 | 1827.7 | 1076 | 951.3 | 934.3 | 1004.3 | 1702.9 | 1696.2 |
| STX5A | 131.7 | 178.3 | 101.9 | 102 | 88.4 | 113.4 | 165.3 | 250.2 |
| STX5A | 335.6 | 490.2 | 403.3 | 310.2 | 320.5 | 447.5 | 416.7 | 783.4 |
| STX6 | 687.6 | 904.3 | 457.6 | 640.5 | 518.3 | 871.8 | 629.2 | 968.9 |
| STX7 | 89.4 | 94.1 | 97.6 | 80.3 | 85 | 90 | 89.9 | 101.8 |
| STX8 | 594.7 | 837.3 | 246.9 | 214.9 | 190.3 | 292.6 | 544.5 | 626 |
| STXBP1 | 98 | 124.6 | 95.9 | 85.7 | 85 | 93.4 | 95.5 | 123 |
| STXBP1 | 114.7 | 145.8 | 133.9 | 116 | 126 | 124.3 | 116.4 | 150.2 |
| STXBP1 | 111.4 | 121.4 | 99.2 | 91.7 | 82.6 | 93.1 | 106.4 | 100.4 |
| STXBP2 | 1193.7 | 1493.9 | 1677.6 | 981.4 | 812.2 | 1558.8 | 1217.5 | 2696.9 |
| STXBP3 | 1477.3 | 1879.6 | 638.9 | 400.8 | 367.8 | 655.2 | 1277.3 | 2818.6 |
| STXBP5 | 492.2 | 680.3 | 379.6 | 759.6 | 556.3 | 973.1 | 619.4 | 998.6 |
| STXBP6 | 219.1 | 276 | 144.1 | 123 | 115.7 | 118.1 | 160.4 | 185.1 |
| STYK1 | 83.7 | 87.2 | 89.1 | 86.1 | 75.5 | 83.7 | 81.4 | 94.4 |
| STYX | 75.3 | 86.3 | 94.7 | 83.5 | 86.5 | 79.7 | 76.9 | 87.5 |
| STYXL1 | 1054.2 | 1464.7 | 1104.4 | 1089 | 821.2 | 1330.8 | 938.7 | 1062.9 |
| SUB1 | 1146.3 | 1407 | 574.2 | 557.3 | 393.2 | 698.6 | 1069.7 | 1621.7 |
| SUCLA2 | 1037 | 1420 | 688.5 | 664.6 | 498.1 | 1305 | 700.7 | 1292 |
| SUCLG1 | 1984 | 2687.1 | 1402.2 | 1209.8 | 960.9 | 1592.5 | 1619.6 | 2563.7 |
| SUCLG2 | 1686.6 | 2170.5 | 501.5 | 462.4 | 393.8 | 578 | 1368.5 | 1714 |
| SUDS3 | 114.8 | 138.9 | 94.4 | 86.2 | 80.3 | 90.8 | 119.4 | 135.5 |
| SUFU | 123.3 | 137.6 | 95.2 | 75.6 | 81.6 | 85.6 | 103.9 | 136.4 |
| SUGT1 | 694.3 | 866.5 | 417.9 | 302.2 | 246.4 | 348.6 | 554.7 | 927.1 |
| SUHW1 | 133.5 | 164.4 | 106.9 | 106.1 | 84.7 | 104.1 | 119.6 | 147 |
| SUHW2 | 148.2 | 191 | 137.3 | 98.7 | 88.6 | 104.4 | 132.8 | 171.7 |
| SUHW3 | 385 | 422.5 | 278.3 | 324.1 | 250.8 | 395.7 | 321 | 510.5 |
| SUHW4 | 200.5 | 242.1 | 165.7 | 172.6 | 141 | 192.8 | 188.8 | 259.4 |
| SUHW4 | 351.8 | 415 | 153.8 | 145.6 | 137.1 | 156.8 | 294.7 | 407 |
| SUHW4 | 174.4 | 185 | 129.7 | 123.4 | 116.8 | 142.3 | 136.8 | 164.1 |
| SULF1 | 77 | 102.7 | 100.1 | 90.1 | 93 | 86.8 | 87.1 | 95.4 |
| SULF2 | 422.1 | 565.8 | 214.6 | 272.8 | 253.2 | 346.2 | 383.6 | 340.7 |
| SULF2 | 83.6 | 93.5 | 89.8 | 104.1 | 109.3 | 132.1 | 81.8 | 94.1 |
| SULT1A1 | 96.2 | 100.3 | 109.5 | 111.8 | 101 | 103 | 89.4 | 97.9 |
| SULT1A1 | 93.9 | 97.7 | 87.2 | 106.3 | 104 | 96.4 | 88.2 | 99.8 |

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|---------|---------|---------|--------|--------|--------|---------|---------|---------|
| SULT1A1 | 3503.6 | 3731.3 | 1235.2 | 2231.1 | 2237.6 | 1958.3 | 3344.8 | 3692.8 |
| SULT1A1 | 103.9 | 109.8 | 89.5 | 78.9 | 77.5 | 98.2 | 93.3 | 112.6 |
| SULT1A2 | 87.8 | 96.9 | 94.7 | 91.1 | 85.6 | 101.4 | 83.4 | 99.8 |
| SULT1A2 | 352 | 396.2 | 166.1 | 164.6 | 184.4 | 203.5 | 385.2 | 546.7 |
| SULT1A3 | 198.1 | 224.5 | 139.8 | 118.2 | 110.3 | 114.2 | 156 | 186.8 |
| SULT1A4 | 363.3 | 392 | 318 | 264.3 | 274.1 | 330.4 | 362 | 518.7 |
| SULT1C1 | 101.3 | 109.9 | 86.4 | 83.1 | 86.6 | 81 | 98 | 106.3 |
| SULT1C1 | 73.6 | 80.8 | 76.1 | 76.4 | 79.3 | 75.3 | 72.9 | 68.9 |
| SULT1C2 | 96.6 | 118.3 | 93 | 88.4 | 72.5 | 85.9 | 104.6 | 115.8 |
| SULT1C3 | 84.1 | 94.9 | 93.5 | 97.8 | 88.9 | 77.6 | 85.2 | 99.5 |
| SULT1E1 | 103 | 127.7 | 87.9 | 80.3 | 81.6 | 80 | 103.5 | 124.6 |
| SULT2A1 | 82.5 | 94.4 | 94.2 | 99.2 | 90.7 | 92 | 78.9 | 88.1 |
| SULT2B1 | 139 | 169.1 | 128.6 | 95.1 | 87.7 | 101.7 | 156.2 | 139.9 |
| SULT2B1 | 376.3 | 436.9 | 178.8 | 155 | 150.3 | 198.4 | 381.1 | 464.4 |
| SULT2B1 | 112.3 | 142 | 98.1 | 96 | 94.3 | 102.6 | 110.7 | 134 |
| SULT4A1 | 133.9 | 134.4 | 94.6 | 84.4 | 88.3 | 78.3 | 120.6 | 121.8 |
| SULT6B1 | 101.4 | 116.1 | 116.8 | 103.8 | 114.2 | 113.9 | 99.1 | 100 |
| SUMF1 | 495.9 | 632.1 | 244.7 | 274.5 | 222.3 | 256.4 | 394.7 | 475.8 |
| SUMF2 | 588 | 832.1 | 215.9 | 146.3 | 153.1 | 149.4 | 502.8 | 782.4 |
| SUMF2 | 4603.7 | 5899.2 | 3691.3 | 3275.1 | 2681.7 | 2651.5 | 4171.7 | 5182 |
| SUMO1 | 139.4 | 141.6 | 99.4 | 92.3 | 89.8 | 100.7 | 141.7 | 255.2 |
| SUMO1 | 85.2 | 79.8 | 94.2 | 80.4 | 86.9 | 102.4 | 77 | 81.2 |
| SUMO1P1 | 107 | 115.7 | 88.5 | 79.7 | 71.4 | 91.2 | 98 | 113.6 |
| SUMO1P3 | 92.3 | 117.9 | 79.8 | 80.7 | 75.7 | 95.1 | 109.5 | 122.3 |
| SUMO2 | 1607 | 1906 | 553.9 | 464.5 | 366.9 | 414.5 | 1394.8 | 2792 |
| SUMO2 | 7538.9 | 9333.6 | 3910.1 | 3547.6 | 3116.1 | 4117.1 | 5837.3 | 6073 |
| SUMO3 | 12186.5 | 15548.1 | 9138.2 | 9798.9 | 6476.5 | 10289.7 | 10930.2 | 13593.6 |
| SUMO4 | 98.3 | 111 | 101.1 | 92.5 | 89 | 92.2 | 96.6 | 105.1 |
| SUNC1 | 167.3 | 221.2 | 110.4 | 132.1 | 100.4 | 108.7 | 158.3 | 206.1 |
| SUNC1 | 88.8 | 89.8 | 96.3 | 89.5 | 90.2 | 84.5 | 87 | 94.1 |
| SUOX | 559.5 | 695.1 | 428.7 | 466.6 | 424.3 | 521.6 | 405.9 | 470.1 |
| SUOX | 101.1 | 108.8 | 86.2 | 90 | 93.2 | 87 | 83.8 | 97.3 |
| SUOX | 172.2 | 225.8 | 150.7 | 153.3 | 141.8 | 219.1 | 138 | 223.4 |
| SUPT16H | 2333.5 | 3547.8 | 2998.1 | 2739.9 | 2132.1 | 4549.5 | 1877.8 | 3221.3 |
| SUPT3H | 195.8 | 226.4 | 144.3 | 132.6 | 121.2 | 152.3 | 160.5 | 175.7 |
| SUPT3H | 226.6 | 323.2 | 155.9 | 123.3 | 104.4 | 130.5 | 211.5 | 263.4 |
| SUPT4H1 | 876.1 | 1131.8 | 658 | 695 | 598.9 | 875.6 | 895.2 | 1530.5 |
| SUPT5H | 377.6 | 526.5 | 561.7 | 615.3 | 452.3 | 840.2 | 413.2 | 732.4 |
| SUPT6H | 162.2 | 243.5 | 147.3 | 180.9 | 143.6 | 215 | 157.9 | 244.1 |
| SUPT7L | 103.9 | 114.6 | 121.2 | 100.1 | 97.4 | 101.9 | 97.6 | 112.4 |
| SUPV3L1 | 340.9 | 415.6 | 313.5 | 286.7 | 210.4 | 362.8 | 273.7 | 333.7 |
| SURB7 | 117.5 | 128.9 | 111.5 | 95.9 | 110.2 | 97.3 | 113.3 | 144.7 |
| SURF1 | 766.3 | 966.6 | 452.2 | 451.3 | 354.6 | 556.8 | 613.9 | 865.9 |
| SURF2 | 180.6 | 197.5 | 153.3 | 122 | 109.9 | 129.9 | 141.6 | 172.7 |
| SURF4 | 1419.7 | 2133.6 | 1172.2 | 686.1 | 593.2 | 1252 | 1357.2 | 2640.9 |
| SURF5 | 187.7 | 235 | 138.3 | 100.9 | 110.7 | 121.5 | 150 | 199 |
| SURF5 | 839.3 | 1028.6 | 600.5 | 416.4 | 356.4 | 456.8 | 621.6 | 600.9 |
| SURF6 | 1665.9 | 1874.1 | 1142 | 1072.3 | 764.9 | 1241.8 | 1187.9 | 1950.7 |
| SUSD1 | 677.9 | 851.9 | 598.1 | 708.6 | 591.4 | 1013.3 | 631.2 | 956.4 |
| SUSD2 | 83 | 93.7 | 91.3 | 97.8 | 84.8 | 93.7 | 87.4 | 89.9 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| SUSD3 | 712.6 | 897 | 423.3 | 358.9 | 341.1 | 381.2 | 615.9 | 682.1 |
| SUSD4 | 75.7 | 78.9 | 89.2 | 83.6 | 84.2 | 80.4 | 89 | 89 |
| SUSD4 | 93.9 | 92.6 | 82.3 | 84.4 | 74 | 87.5 | 93.7 | 98.5 |
| SUV39H1 | 2585.2 | 3000.4 | 1912.5 | 1284.4 | 938.8 | 1082.4 | 2027.5 | 2509.8 |
| SUV39H2 | 137.8 | 175.4 | 136.6 | 127 | 142.1 | 130.3 | 128 | 154.2 |
| SUV420H1 | 130.5 | 145.7 | 116.9 | 103.3 | 95 | 103 | 113.7 | 138.6 |
| SUV420H1 | 285 | 467.1 | 185.4 | 168.4 | 155.2 | 208.3 | 208.4 | 265.7 |
| SUV420H1 | 272.9 | 335.2 | 147 | 150 | 126.6 | 200.6 | 229.2 | 394.3 |
| SUV420H2 | 110.7 | 123.3 | 97.1 | 84.6 | 85 | 89.4 | 112.9 | 124.8 |
| SUZ12 | 7260.1 | 8653.9 | 5222.5 | 6746.3 | 5848.1 | 8705.1 | 6765.9 | 9318.6 |
| SV2A | 128 | 154.5 | 129.7 | 112.1 | 102 | 106.5 | 123.8 | 154.8 |
| SV2B | 119.7 | 133.6 | 97 | 82 | 86.7 | 99.5 | 94.7 | 119.9 |
| SV2C | 80.5 | 90.6 | 92.5 | 90.7 | 86.5 | 91.2 | 83.9 | 89.7 |
| SVEP1 | 147.9 | 193.8 | 169.7 | 103.2 | 98.9 | 110.3 | 143.2 | 168.9 |
| SVIL | 96.6 | 104.5 | 102.9 | 93.1 | 88.9 | 85.5 | 97 | 94.6 |
| SVIL | 131 | 163.8 | 113.4 | 108.6 | 102.1 | 91.2 | 130.7 | 165.9 |
| SVIL | 270.5 | 328.5 | 233.9 | 267.4 | 218.4 | 341.4 | 267.9 | 456.5 |
| SVOP | 93.6 | 109.9 | 97 | 78.2 | 86.2 | 94.4 | 87.6 | 95.2 |
| SWAP70 | 921.1 | 1169 | 579.1 | 737.3 | 626 | 1060.4 | 1118.6 | 1586.7 |
| SYAP1 | 338.3 | 428.3 | 169.8 | 180.3 | 212.4 | 156.1 | 308.5 | 383.1 |
| SYBL1 | 2446 | 3115.5 | 1343.7 | 2330.4 | 1724.9 | 2548.9 | 2275 | 4234.8 |
| SYCE1 | 102.3 | 103.5 | 96.6 | 95.9 | 100.2 | 106.5 | 106.8 | 95.4 |
| SYCE1 | 82.4 | 84.3 | 80.6 | 84.7 | 76.8 | 78.4 | 83.2 | 83.5 |
| SYCN | 91.7 | 95.9 | 92.4 | 86.6 | 87.9 | 86.7 | 90.4 | 94.9 |
| SYCP1 | 70.8 | 88.1 | 88.6 | 85.5 | 80.5 | 91.2 | 87.2 | 83.9 |
| SYCP2 | 95.3 | 96.3 | 94.6 | 104.7 | 93.9 | 96 | 101.7 | 101.8 |
| SYCP3 | 86.3 | 88.3 | 102.7 | 96.1 | 88.7 | 89.2 | 83.4 | 85.6 |
| SYDE1 | 108.8 | 131.3 | 118.8 | 90.5 | 86.9 | 89.8 | 109.2 | 117.5 |
| SYF2 | 758.4 | 999.7 | 454.8 | 592.9 | 574 | 671.2 | 801.7 | 965.2 |
| SYF2 | 95.2 | 99 | 91.6 | 92.2 | 82.3 | 88.4 | 92.2 | 99.9 |
| SYF2 | 2083.3 | 2987.2 | 1383.3 | 1579.2 | 1568.6 | 2271.5 | 2184.6 | 2672 |
| SYK | 2749.5 | 3330.6 | 2432.9 | 2390.2 | 1974.1 | 2516.4 | 2076.4 | 3676.6 |
| SYMPK | 207.7 | 280 | 223.5 | 149 | 132.6 | 198.4 | 206.4 | 293 |
| SYN1 | 81.3 | 98 | 87.8 | 90.5 | 90.6 | 80.4 | 89.4 | 91.5 |
| SYN1 | 80.5 | 93.1 | 99.6 | 94.3 | 90.3 | 93.6 | 92.5 | 98.8 |
| SYN1 | 85.7 | 91.2 | 84.9 | 82.9 | 82 | 76.7 | 93.1 | 89.9 |
| SYN2 | 188.3 | 227.8 | 109.5 | 100.1 | 76.1 | 102.5 | 175.9 | 227.5 |
| SYN2 | 132.8 | 128.9 | 120.1 | 96.2 | 83 | 95.3 | 126.2 | 173.2 |
| SYN3 | 96.1 | 123.6 | 94.7 | 84.5 | 90.8 | 97.8 | 95.8 | 111.1 |
| SYN3 | 90.4 | 96.6 | 96.8 | 98.5 | 80 | 89 | 82.7 | 97.3 |
| SYNC1 | 191.9 | 240.6 | 109.3 | 114.4 | 105.4 | 112.8 | 170.4 | 262.4 |
| SYNCRIP | 5958.6 | 7455.5 | 2949.2 | 2881.3 | 1861.4 | 2696.8 | 5332.7 | 7837.4 |
| SYNE1 | 81.1 | 109.3 | 93.3 | 82.3 | 82.5 | 93.4 | 98.3 | 93.4 |
| SYNE1 | 92.2 | 86.8 | 84.1 | 90.4 | 77.8 | 80.1 | 84.1 | 94.6 |
| SYNE1 | 139.5 | 179.2 | 110.1 | 102.8 | 88.8 | 105.3 | 138.5 | 166.2 |
| SYNE1 | 82.6 | 76.8 | 87.1 | 79.3 | 74.1 | 84.2 | 73.4 | 75.9 |
| SYNE2 | 92.3 | 89.4 | 84.9 | 77.5 | 76.5 | 86.2 | 85.8 | 93.4 |
| SYNE2 | 80.5 | 87.6 | 100.7 | 81.6 | 78.8 | 84.1 | 78.3 | 89.8 |
| SYNE2 | 118.1 | 128.5 | 109.6 | 95.5 | 93.3 | 100.5 | 112.2 | 128.6 |
| SYNE2 | 75 | 81.2 | 101.8 | 93.1 | 81.2 | 76.8 | 83.5 | 80 |

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|---------|--------|--------|-------|--------|--------|--------|--------|--------|
| SYNGAP1 | 81.1 | 99 | 86 | 78 | 81.3 | 79 | 85.5 | 96 |
| SYNGR1 | 409.1 | 482.1 | 207.2 | 144.9 | 162.2 | 162.2 | 349.7 | 396.3 |
| SYNGR1 | 104.1 | 103 | 89.7 | 87.5 | 91.7 | 95.5 | 107.2 | 110.8 |
| SYNGR1 | 99.2 | 97.8 | 109.9 | 103.2 | 106.1 | 93.1 | 84.3 | 104.5 |
| SYNGR1 | 220.2 | 272.6 | 233.5 | 189.8 | 172.7 | 218.3 | 177.3 | 249.9 |
| SYNGR2 | 102.2 | 109.2 | 88.6 | 95.8 | 93.5 | 109 | 106.3 | 115.9 |
| SYNGR3 | 78.5 | 94.2 | 105.4 | 90.7 | 98.1 | 100.6 | 75.4 | 92.5 |
| SYNGR4 | 107.4 | 126 | 120.2 | 108.4 | 101.9 | 103.4 | 104.6 | 114.4 |
| SYNJ1 | 210.8 | 267.6 | 145.6 | 163.4 | 149.1 | 211.6 | 206.5 | 378.5 |
| SYNJ1 | 146.2 | 145.9 | 94.6 | 95.4 | 93 | 95.9 | 129.2 | 153.6 |
| SYNJ1 | 81 | 102.2 | 88.2 | 98.7 | 81.3 | 84.5 | 86.9 | 90.2 |
| SYNJ2 | 281.4 | 359.5 | 231.4 | 264.1 | 218.6 | 246 | 205 | 325.2 |
| SYNJ2BP | 445.7 | 559.6 | 249.9 | 321.5 | 254.8 | 265.9 | 345.1 | 416.3 |
| SYNPO | 136.2 | 148.5 | 104.2 | 87.9 | 87.3 | 89.8 | 127.3 | 136.9 |
| SYNPO2 | 114.8 | 123.1 | 116.8 | 90.6 | 91 | 106.1 | 111.5 | 119.3 |
| SYNPO2 | 106.6 | 114.7 | 92.1 | 87.2 | 89.2 | 96 | 100.9 | 114.5 |
| SYNPO2L | 96.5 | 121.2 | 96.5 | 93.7 | 75.1 | 90.7 | 97.9 | 114.7 |
| SYNPR | 94.2 | 100.5 | 89.1 | 88.6 | 89.4 | 78.2 | 86.6 | 97.9 |
| SYP | 91 | 87.2 | 97.2 | 87.9 | 81.6 | 96.8 | 91.7 | 101.3 |
| SYPL1 | 3648.2 | 4697.2 | 2926 | 3134.8 | 2201.6 | 3738.2 | 3232.1 | 5175.3 |
| SYPL1 | 541.7 | 552.7 | 271.9 | 216.4 | 178.6 | 196 | 321.3 | 404.4 |
| SYPL1 | 89.2 | 98.5 | 99.9 | 96.9 | 80.5 | 83.9 | 89.8 | 95.3 |
| SYPL2 | 84.9 | 101.9 | 89.7 | 78.8 | 70.1 | 78.9 | 87.7 | 100.3 |
| SYT1 | 95.3 | 103.7 | 97.8 | 94 | 89.4 | 94.8 | 93.3 | 96.2 |
| SYT10 | 74.1 | 86.9 | 86.6 | 72.2 | 72.5 | 80.3 | 74.7 | 81 |
| SYT11 | 177.3 | 197.8 | 150 | 105.8 | 113.6 | 112 | 159.8 | 152.9 |
| SYT12 | 103.8 | 112.2 | 101.1 | 88 | 87.8 | 91.7 | 96.9 | 105.2 |
| SYT13 | 85.2 | 89.6 | 102.8 | 90.4 | 87.7 | 85.2 | 87.8 | 90.8 |
| SYT14 | 89 | 109.6 | 98.3 | 86 | 89.4 | 93.4 | 106.7 | 99.6 |
| SYT15 | 216 | 270.4 | 193.4 | 119.5 | 114.2 | 117.1 | 218 | 253.1 |
| SYT15 | 108.1 | 133 | 107.3 | 97.6 | 87.2 | 98.6 | 107.4 | 120.2 |
| SYT16 | 122.8 | 156.5 | 93.9 | 98.5 | 93.6 | 92.2 | 117.3 | 165.2 |
| SYT17 | 120.1 | 119.3 | 108.5 | 100.1 | 108.7 | 111.8 | 106.3 | 104.3 |
| SYT2 | 86.5 | 106.3 | 88.3 | 73.8 | 72.7 | 73.7 | 79.4 | 91.9 |
| SYT3 | 132 | 164.6 | 136.2 | 93.9 | 99.8 | 111.1 | 126.7 | 178.4 |
| SYT4 | 118 | 118.3 | 92.8 | 84 | 78.5 | 86.7 | 97.5 | 110.6 |
| SYT5 | 104.5 | 104.2 | 94.7 | 89.1 | 75.4 | 82.3 | 74.7 | 100.7 |
| SYT6 | 97.2 | 103.2 | 93.2 | 94.5 | 94.1 | 90.3 | 93.7 | 94.4 |
| SYT7 | 105.2 | 128.9 | 93.2 | 80.6 | 86.8 | 97.3 | 106.2 | 125.5 |
| SYT7 | 151.2 | 196.7 | 104.2 | 94.7 | 87.9 | 99.6 | 148.7 | 177.6 |
| SYT8 | 76.8 | 86 | 100.9 | 86.4 | 100.8 | 82.5 | 78.1 | 84.5 |
| SYT9 | 93.7 | 97.3 | 105.8 | 94.6 | 93.4 | 98.4 | 93.2 | 94.6 |
| SYTL1 | 167.1 | 214.6 | 139.5 | 121 | 92.2 | 147.8 | 140.3 | 196.3 |
| SYTL2 | 94 | 114.5 | 88.2 | 87.3 | 76.5 | 80.9 | 110.3 | 103.4 |
| SYTL2 | 130.2 | 159.3 | 106.7 | 85.9 | 80.8 | 97 | 129 | 154.2 |
| SYTL2 | 82.8 | 86.1 | 105 | 92 | 78.5 | 91.9 | 82.5 | 86.2 |
| SYTL2 | 104 | 132.1 | 110 | 108.7 | 102.5 | 110.6 | 104.7 | 128.4 |
| SYTL3 | 161.8 | 171.6 | 118 | 101.4 | 92.2 | 104.3 | 151.2 | 175.8 |
| SYTL4 | 196.7 | 240.4 | 172.4 | 154.8 | 150.4 | 198.1 | 166.7 | 186.3 |
| SYTL5 | 103.1 | 120.6 | 98.9 | 95.9 | 85.9 | 93.5 | 105.3 | 111.1 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| SYVN1 | 774.7 | 891.7 | 366.6 | 326.2 | 310.9 | 380.2 | 709.9 | 950.2 |
| SYVN1 | 99.1 | 114.2 | 101.9 | 93.7 | 89.4 | 102.4 | 90.4 | 116.3 |
| T | 92.9 | 90.4 | 83.7 | 89.1 | 77.8 | 83.8 | 85.3 | 89.8 |
| T2R55 | 88.4 | 97.9 | 92 | 87.5 | 79.3 | 80.8 | 93 | 87.1 |
| TAAR1 | 136.9 | 157.9 | 109.3 | 95.8 | 90.7 | 103.6 | 125.6 | 138.1 |
| TAAR2 | 107.2 | 113.5 | 94.2 | 89.8 | 82.2 | 90.2 | 117.5 | 108 |
| TAAR5 | 88.1 | 108.5 | 96.7 | 95.4 | 97.1 | 84.9 | 100.3 | 97.4 |
| TAAR8 | 94.9 | 124.5 | 102.6 | 98.7 | 96.6 | 94.9 | 96 | 109 |
| TAAR9 | 98.8 | 108.2 | 97.8 | 89 | 93.9 | 95.1 | 99.5 | 108.9 |
| TAB3 | 101.5 | 101.8 | 102.9 | 94.6 | 98.7 | 97.8 | 96.4 | 98 |
| TAB3 | 78.5 | 106.3 | 102.7 | 103.3 | 98.1 | 99.3 | 87.7 | 97.6 |
| TAC1 | 81.3 | 105.2 | 84.4 | 79.8 | 85.6 | 81.3 | 90.9 | 91.2 |
| TAC3 | 97.1 | 126.9 | 86.1 | 80.1 | 79.1 | 91.2 | 100.9 | 124.1 |
| TAC3 | 131.1 | 145.4 | 116.6 | 99.9 | 102.1 | 97.1 | 134.4 | 162.1 |
| TAC3 | 71.9 | 82.4 | 85.6 | 79.5 | 77.7 | 90.8 | 78.3 | 80.8 |
| TAC4 | 77.9 | 93 | 86.8 | 86 | 79.3 | 93.7 | 86.1 | 94.6 |
| TAC4 | 137.1 | 170.5 | 98.3 | 100.6 | 91.4 | 91.6 | 154.8 | 139.7 |
| TACC1 | 4559.6 | 6705 | 3650.5 | 2938.4 | 2192.6 | 3512.2 | 4793.3 | 5581.8 |
| TACC2 | 159.5 | 189.8 | 187 | 127.4 | 106.6 | 135.2 | 193.4 | 337.3 |
| TACC2 | 79.6 | 92 | 89.1 | 83.8 | 79.8 | 91.7 | 83.8 | 89.3 |
| TACC2 | 110.5 | 121.6 | 106.8 | 92.7 | 80.7 | 90.6 | 123.3 | 164.1 |
| TACC3 | 614.6 | 770.1 | 382.6 | 215.1 | 192 | 320.6 | 523.2 | 1164.4 |
| TACR1 | 81.6 | 84.6 | 86.1 | 82.4 | 80.3 | 82.6 | 79.6 | 85.1 |
| TACR1 | 88.4 | 94.2 | 99.4 | 92.9 | 95.4 | 79 | 81.2 | 89.6 |
| TACR1 | 89.9 | 94 | 101.8 | 96.1 | 90.9 | 94.4 | 91.2 | 93.4 |
| TACR2 | 90.4 | 102.8 | 94.9 | 77.1 | 83.4 | 91.7 | 90.5 | 104.6 |
| TACR3 | 123.9 | 144.6 | 110 | 106.4 | 101.3 | 102.6 | 113.9 | 123 |
| TACSTD1 | 168.4 | 204.2 | 99.5 | 89.3 | 85.1 | 93.1 | 154.1 | 171 |
| TACSTD2 | 117.8 | 132.2 | 102.3 | 93.3 | 87.5 | 87.8 | 112.1 | 119.3 |
| TADA1L | 622.6 | 778.5 | 285 | 268.2 | 229.9 | 290.2 | 527.9 | 905.6 |
| TADA2L | 181.3 | 261.5 | 98.9 | 107.5 | 102.7 | 99.5 | 160.8 | 197.9 |
| TADA2L | 296.2 | 366.2 | 135.8 | 113.5 | 105.2 | 136.5 | 238.1 | 340.5 |
| TADA2L | 112.4 | 116 | 107.9 | 95.1 | 93.8 | 97.7 | 102.2 | 109.3 |
| TADA3L | 377.9 | 466.3 | 266.1 | 243.4 | 201.2 | 292.9 | 327.5 | 536 |
| TADA3L | 451.7 | 481.5 | 323.9 | 325.8 | 276.5 | 412 | 347.3 | 498.5 |
| TADA3L | 100.1 | 92.4 | 95.9 | 83.2 | 79.6 | 85.5 | 89 | 107.6 |
| TAF1 | 209.9 | 318.7 | 140.7 | 115.3 | 138 | 117.4 | 201.3 | 239.9 |
| TAF1 | 113.8 | 153.9 | 99.4 | 103.4 | 104.6 | 117 | 118.3 | 125.6 |
| TAF10 | 1674.3 | 2195.9 | 1538.9 | 1117.3 | 930.3 | 1307.1 | 1473.4 | 2508.9 |
| TAF11 | 144.7 | 161.7 | 104.4 | 91.9 | 94.8 | 96.6 | 139.2 | 136 |
| TAF13 | 216.8 | 255 | 143.4 | 118.5 | 106.4 | 99 | 197.6 | 228.6 |
| TAF15 | 4022.5 | 6490.5 | 3449 | 4944.1 | 4093 | 4363.6 | 4622.4 | 5530.3 |
| TAF15 | 642.4 | 1052.6 | 283.1 | 280.4 | 268.5 | 277 | 784.5 | 707.9 |
| TAF1A | 233.5 | 281.3 | 121.5 | 120.3 | 116.3 | 123 | 179.9 | 243.6 |
| TAF1A | 101.1 | 103.2 | 88.4 | 76.5 | 79.4 | 92.5 | 91.3 | 106.6 |
| TAF1B | 777.9 | 825.2 | 243.1 | 256.5 | 226.3 | 266 | 541.3 | 846.6 |
| TAF1C | 91.4 | 106.5 | 89.4 | 84.9 | 83.5 | 87.1 | 95.7 | 116.9 |
| TAF1C | 192.5 | 209.9 | 192 | 157.9 | 160.1 | 177 | 159.8 | 207.7 |
| TAF1C | 1776.6 | 1687.1 | 1555 | 1337.4 | 1040.5 | 1512.8 | 1148.5 | 1584.6 |
| TAF1L | 271.7 | 431.1 | 188.4 | 233.2 | 224.9 | 321.8 | 231.7 | 243 |

| | | | | | | | | |
|----------|---------|---------|--------|--------|--------|--------|---------|--------|
| TAF2 | 928.8 | 1285.3 | 763.4 | 630.3 | 500.8 | 1072.2 | 810.1 | 1244.4 |
| TAF4 | 1070.1 | 1381 | 830.2 | 1096 | 910.8 | 1300.3 | 1018 | 1216.6 |
| TAF5 | 539.7 | 686.9 | 366.2 | 312.2 | 231.9 | 397.1 | 474.6 | 977.3 |
| TAF5L | 144.4 | 144.5 | 129.9 | 128.4 | 107.1 | 135.7 | 117.6 | 219.9 |
| TAF5L | 217.5 | 311.8 | 184.4 | 381.3 | 324.3 | 556 | 237.5 | 300.4 |
| TAF6 | 140.8 | 159 | 170.2 | 127.1 | 118.3 | 126.5 | 115.5 | 162.2 |
| TAF6 | 113.9 | 144.9 | 106 | 99.4 | 92.7 | 96.8 | 110.5 | 157.7 |
| TAF6L | 464.8 | 629.2 | 398.1 | 331.8 | 319.4 | 368.6 | 401 | 598.2 |
| TAF7 | 1078.4 | 1330.1 | 289 | 284.1 | 237.2 | 456.5 | 766.8 | 1308.5 |
| TAF7L | 84.6 | 96.2 | 87.1 | 72.4 | 70.6 | 79.2 | 94.9 | 96.1 |
| TAF9 | 632 | 739.7 | 170.3 | 189.2 | 148.8 | 227.6 | 424.5 | 695.8 |
| TAF9 | 503.7 | 695.3 | 152 | 169.9 | 157.3 | 174.2 | 388.9 | 620.6 |
| TAF9B | 77.1 | 89.9 | 86.8 | 81.9 | 80.9 | 87.7 | 79.9 | 88.7 |
| TAGAP | 115.7 | 128.4 | 120.5 | 123.6 | 112.5 | 119.1 | 110.3 | 109.3 |
| TAGAP | 147.6 | 171.8 | 116.4 | 124.1 | 122.6 | 109.4 | 125 | 146.4 |
| TAGAP | 175.6 | 170.7 | 140.2 | 118.1 | 113.4 | 125 | 130.7 | 155.3 |
| TAGLN | 187.2 | 218.4 | 168.1 | 171.8 | 146.7 | 169.2 | 190.2 | 227.9 |
| TAGLN | 111.6 | 139.1 | 102.1 | 93.7 | 85.3 | 96.7 | 123.2 | 156.3 |
| TAGLN | 77.6 | 91.5 | 89.4 | 88.4 | 85.3 | 86.8 | 86.9 | 90.4 |
| TAGLN2 | 5225.9 | 7653.5 | 6023.9 | 3626.2 | 2768.2 | 4972.8 | 5156.5 | 9006.9 |
| TAGLN3 | 97 | 103.6 | 96.9 | 95.1 | 87.5 | 93.3 | 95.4 | 100.3 |
| TAGLN3 | 89.8 | 88.6 | 91.1 | 79 | 75.2 | 88.5 | 87.9 | 98.3 |
| TAL1 | 111.4 | 133.4 | 102.8 | 92.5 | 96.8 | 92.9 | 108.7 | 130.6 |
| TAL2 | 157.3 | 177.6 | 77.7 | 89.5 | 81.1 | 88 | 135.8 | 144.6 |
| TALDO1 | 10972.2 | 13860.5 | 8224 | 8146.2 | 6281.4 | 9167.4 | 12235.5 | 17860 |
| TANC1 | 197.8 | 254.6 | 173.1 | 165.7 | 166.9 | 290.1 | 172.4 | 343 |
| TA-NFKBH | 113.6 | 137.6 | 119 | 102.5 | 98.7 | 104.1 | 130.7 | 167.6 |
| TANK | 172.3 | 194.2 | 102.4 | 105.8 | 82.9 | 104.2 | 155.8 | 241.5 |
| TANK | 98.5 | 107.3 | 88.5 | 80.3 | 77.2 | 93.7 | 94.6 | 112.7 |
| TAOK1 | 155.4 | 229.5 | 209 | 328.6 | 260 | 157.6 | 241.9 | 238 |
| TAOK2 | 144 | 196.4 | 219.9 | 161.5 | 168.3 | 165 | 141.1 | 203.3 |
| TAOK2 | 106.6 | 138.2 | 90.5 | 81 | 93.3 | 91.1 | 112.8 | 150 |
| TAOK2 | 97.5 | 141.3 | 91.5 | 83.1 | 86.4 | 85.9 | 109.6 | 118.2 |
| TAOK3 | 95.8 | 96 | 86.5 | 79.8 | 73.3 | 83.6 | 99.5 | 95.8 |
| TAP1 | 1544.2 | 1791 | 1479.5 | 1532.7 | 1410.9 | 1724.8 | 1056.3 | 1246.3 |
| TAP2 | 433.7 | 574.8 | 261.8 | 228 | 214.6 | 218.9 | 378.6 | 492.8 |
| TAP2 | 498.1 | 615.5 | 479.4 | 486.9 | 372.7 | 641.2 | 399.8 | 824.9 |
| TAPBP | 1185.8 | 1757.4 | 1724.7 | 2554.5 | 2117 | 2940 | 1114.4 | 1907.2 |
| TAPBP | 171.6 | 173.1 | 139.6 | 136.7 | 132.8 | 140.2 | 152.8 | 215.6 |
| TAPBP | 305 | 438.8 | 189.6 | 188.5 | 175 | 134.8 | 231.2 | 417.9 |
| TAPBPL | 197.8 | 261.8 | 136.7 | 128.5 | 130.8 | 142.4 | 186.2 | 168.6 |
| TA-PP2C | 338.2 | 427.2 | 227.3 | 212.9 | 175.4 | 184.6 | 324.5 | 457.5 |
| TARBP1 | 568.5 | 752.2 | 404.4 | 640.3 | 630.3 | 900 | 404.9 | 576.6 |
| TARBP2 | 267.5 | 352.2 | 254.7 | 180.1 | 167.8 | 193.4 | 227.3 | 345.8 |
| TARBP2 | 652.5 | 823.5 | 281 | 229.2 | 219.2 | 227.9 | 567.4 | 430 |
| TARDBP | 211.5 | 263.2 | 123.9 | 125.3 | 127.4 | 150.9 | 179.6 | 264.1 |
| TARP | 992.4 | 1283 | 281.5 | 249.2 | 165 | 316.8 | 649.6 | 824.8 |
| TARS | 2174.4 | 2749.2 | 908.1 | 955.7 | 676.4 | 1542.8 | 2013.3 | 4302.7 |
| TARSL1 | 284.7 | 335.4 | 155.9 | 124.4 | 108.5 | 158.4 | 207.9 | 269.3 |
| TAS1R1 | 83.6 | 87.9 | 89.8 | 78.8 | 77 | 86.2 | 90 | 91.1 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| TAS1R1 | 85.7 | 100.8 | 88 | 90.3 | 81.3 | 90.9 | 89.9 | 98.8 |
| TAS1R2 | 74.3 | 88.8 | 106 | 94.5 | 90.9 | 96.8 | 83.4 | 88.3 |
| TAS1R3 | 82.2 | 87.2 | 85.1 | 75.7 | 76.8 | 71.1 | 77.3 | 86.7 |
| TAS2R1 | 98.2 | 112.8 | 103.4 | 96.9 | 89.2 | 94.7 | 99.3 | 110.5 |
| TAS2R10 | 93.4 | 97.9 | 97.3 | 96.9 | 93.5 | 93.6 | 95.4 | 99.7 |
| TAS2R13 | 80.4 | 95.3 | 80.8 | 81 | 77.6 | 79.8 | 90.4 | 97.5 |
| TAS2R14 | 98.1 | 110.1 | 97.6 | 85.4 | 91.5 | 84.3 | 99.7 | 106.4 |
| TAS2R16 | 100.7 | 108.2 | 98.9 | 84.9 | 88.6 | 92.7 | 107.3 | 102.8 |
| TAS2R3 | 137.2 | 159.1 | 98.4 | 94.7 | 87.2 | 94.3 | 139.3 | 154.4 |
| TAS2R38 | 106.6 | 129.6 | 89.7 | 92.3 | 86.5 | 89.1 | 104 | 116.5 |
| TAS2R39 | 90.8 | 101.7 | 91.4 | 96 | 97.9 | 93.7 | 87.1 | 90.7 |
| TAS2R4 | 87.1 | 98.9 | 87.8 | 93.2 | 81.1 | 78.7 | 88.4 | 97.6 |
| TAS2R40 | 77.5 | 87.3 | 81.1 | 83.4 | 77.4 | 83.6 | 92.3 | 85 |
| TAS2R43 | 94.9 | 108 | 112.2 | 96.9 | 100.7 | 101.4 | 87.5 | 95.3 |
| TAS2R44 | 82 | 94.1 | 84.6 | 89.2 | 85.8 | 84.7 | 78.9 | 92.8 |
| TAS2R45 | 80.2 | 98.4 | 99.6 | 93.6 | 84.4 | 93.9 | 79 | 82.8 |
| TAS2R46 | 79.3 | 87.7 | 101.1 | 90.6 | 83.5 | 87.6 | 91 | 86.4 |
| TAS2R48 | 91.2 | 93.6 | 96.3 | 90.2 | 87.1 | 92.3 | 97.9 | 98 |
| TAS2R49 | 97.1 | 114.8 | 104.8 | 92.9 | 88.2 | 96.8 | 103.3 | 111.5 |
| TAS2R5 | 93.6 | 101.9 | 106.4 | 84.8 | 79 | 82.2 | 88.5 | 102.9 |
| TAS2R50 | 82.8 | 105.7 | 99.2 | 85.3 | 71 | 82.4 | 81.7 | 104.7 |
| TAS2R60 | 92.9 | 112.1 | 95.5 | 84.3 | 78.6 | 96.3 | 87 | 96.4 |
| TAS2R7 | 84.2 | 88.5 | 92.9 | 82.8 | 82.7 | 82.7 | 81.8 | 93.5 |
| TAS2R8 | 106.5 | 118 | 88.1 | 77.2 | 78.4 | 87.4 | 110.6 | 121.6 |
| TAS2R9 | 97.1 | 122.2 | 94.3 | 88.8 | 94.9 | 97.5 | 96.8 | 103.2 |
| TASP1 | 201.5 | 262.3 | 163.6 | 131 | 133.3 | 179.9 | 157.6 | 195.9 |
| TAT | 93.9 | 104.9 | 91.7 | 90.1 | 94 | 94.7 | 93.2 | 100.5 |
| TATDN1 | 731.8 | 962.3 | 298.8 | 212.8 | 165 | 243.3 | 825.1 | 1371.4 |
| TATDN2 | 450.2 | 587.7 | 302.6 | 254 | 225.6 | 365.7 | 436.3 | 732.3 |
| TATDN3 | 543.8 | 704.9 | 362.1 | 331.1 | 245.6 | 365.9 | 572.6 | 800.1 |
| TATDN3 | 632.3 | 818.3 | 374 | 326.1 | 255.4 | 419.3 | 555.9 | 725.9 |
| TAX1BP1 | 2198.6 | 3128.7 | 1552.1 | 2650.6 | 2797.5 | 5400.7 | 1971.1 | 3276.6 |
| TAX1BP1 | 3671.9 | 4756.5 | 1968.4 | 3586.7 | 3973 | 6122.3 | 3094.1 | 4427.5 |
| TAX1BP3 | 872.3 | 1177 | 608.8 | 421.2 | 345 | 425.3 | 826.8 | 867.5 |
| TAZ | 293.1 | 292.4 | 205.7 | 181.4 | 172 | 224.1 | 214.2 | 361.6 |
| TAZ | 137.6 | 129.7 | 107.6 | 99 | 95.7 | 101.2 | 120.5 | 127.9 |
| TAZ | 191.4 | 210.6 | 183.5 | 162.4 | 189.7 | 241.2 | 153.1 | 194.8 |
| TBC1D1 | 123.3 | 144.5 | 101.8 | 95.7 | 92.3 | 98.1 | 115.8 | 121 |
| TBC1D10A | 128.2 | 135.4 | 108.9 | 98.3 | 95 | 85 | 122.8 | 175.9 |
| TBC1D10B | 174.6 | 215.7 | 165.8 | 117.3 | 119.2 | 133.9 | 162 | 256 |
| TBC1D10C | 125.6 | 146.1 | 114.1 | 154.3 | 147 | 177.1 | 123 | 153.5 |
| TBC1D13 | 323.1 | 409.7 | 428.1 | 366.2 | 297.3 | 364.1 | 327.1 | 551.4 |
| TBC1D14 | 624 | 939.5 | 903.6 | 821.7 | 760.6 | 1178.6 | 712.9 | 1147.7 |
| TBC1D15 | 865.1 | 1090 | 475.8 | 559 | 486.2 | 823.8 | 701 | 1274.6 |
| TBC1D16 | 312.2 | 390.4 | 270.5 | 251.7 | 232.9 | 282.8 | 277.3 | 267.5 |
| TBC1D17 | 96.1 | 98.7 | 111 | 106.1 | 103.7 | 112.4 | 92.3 | 105.1 |
| TBC1D19 | 157.8 | 190.6 | 115.2 | 99.8 | 93.9 | 106.3 | 132.3 | 184.5 |
| TBC1D2 | 128.5 | 160.6 | 129.3 | 112.7 | 114.5 | 119.2 | 156.3 | 172.9 |
| TBC1D20 | 311.4 | 354.3 | 258.6 | 313.6 | 299 | 405 | 277 | 504.4 |
| TBC1D21 | 122.6 | 156.5 | 85.4 | 88 | 76.9 | 85.4 | 106.4 | 152.4 |

| | | | | | | | | |
|----------|---------|---------|---------|---------|---------|--------|---------|---------|
| TBC1D22A | 118.5 | 139.9 | 98.2 | 92.4 | 90.9 | 99.1 | 108.3 | 129.7 |
| TBC1D22B | 167.4 | 203 | 234.6 | 244.7 | 233 | 322.3 | 163.9 | 232 |
| TBC1D23 | 376.3 | 467.2 | 162.2 | 182.3 | 140.9 | 218.5 | 307.2 | 493 |
| TBC1D24 | 127.9 | 137.7 | 144.4 | 123.1 | 121.2 | 122.1 | 137.8 | 176.4 |
| TBC1D2B | 359 | 496.6 | 426 | 414.3 | 323.2 | 521.9 | 331.2 | 584.3 |
| TBC1D3 | 91.7 | 103.6 | 96.4 | 85.1 | 79.7 | 79.1 | 92.7 | 97.6 |
| TBC1D3B | 121.4 | 126.5 | 114.1 | 113.3 | 123.9 | 157.5 | 115.1 | 143.1 |
| TBC1D3C | 83.6 | 99.2 | 82.6 | 76.1 | 78 | 74.8 | 86.2 | 99.2 |
| TBC1D3G | 125 | 138.1 | 110.2 | 113.6 | 121.7 | 127.5 | 140.4 | 139.1 |
| TBC1D4 | 106 | 132.3 | 92.6 | 87.8 | 91 | 105.4 | 91.8 | 131.2 |
| TBC1D5 | 150.8 | 188.7 | 132.1 | 122.5 | 113.2 | 139.3 | 146.9 | 155.6 |
| TBC1D7 | 422.2 | 537.4 | 234.8 | 178.2 | 170.1 | 216 | 390 | 594.1 |
| TBC1D8B | 76.5 | 84.8 | 97 | 91.7 | 86.8 | 85.1 | 82.9 | 76.9 |
| TBC1D9 | 150.9 | 187.8 | 130.6 | 116 | 114.4 | 127.7 | 154 | 214.3 |
| TBC1D9B | 251.3 | 265.7 | 270.1 | 286.6 | 254.7 | 384.2 | 207.3 | 457.5 |
| TBC1D9B | 433 | 490.7 | 215.8 | 222.5 | 165.1 | 313.5 | 400.5 | 601.9 |
| TBCA | 16398.8 | 19625.1 | 12016.1 | 13166.5 | 11211.8 | 15085 | 15175.6 | 20176.5 |
| TBCC | 687.6 | 869.5 | 501.1 | 361.7 | 304 | 441.5 | 628.3 | 822 |
| TBCCD1 | 98.2 | 108.6 | 122.9 | 102.5 | 100.3 | 98 | 102 | 88.8 |
| TBCD | 120.1 | 148.2 | 103.3 | 101.5 | 102.9 | 104.3 | 116.2 | 146.7 |
| TBCD | 354.2 | 447.1 | 449.7 | 508.3 | 399.5 | 728.1 | 333.2 | 465.6 |
| TBCE | 3368.3 | 4413.8 | 1716.3 | 1593.3 | 1337.7 | 2355.4 | 3564.4 | 4181.6 |
| TBCE | 1088 | 1465.9 | 269.1 | 303 | 215.6 | 432.1 | 936.5 | 1352.7 |
| TBK1 | 673.2 | 832.6 | 496.1 | 630.3 | 529.2 | 960.5 | 696.5 | 1324.7 |
| TBKBP1 | 104.6 | 117.5 | 101.7 | 97.7 | 93.2 | 90.9 | 103.1 | 126.5 |
| TBL1X | 415.3 | 533 | 279.5 | 400.4 | 318.6 | 350.5 | 568 | 588 |
| TBL1XR1 | 283.8 | 385.4 | 158.9 | 127.3 | 150.3 | 160.9 | 252.3 | 394.1 |
| TBL1Y | 102.6 | 113.8 | 96.9 | 94.9 | 83.4 | 90.7 | 87.8 | 101.5 |
| TBL1Y | 92.9 | 106 | 100.6 | 88.6 | 105.3 | 90.9 | 85.8 | 102.6 |
| TBL2 | 479.3 | 675.9 | 341.1 | 221.3 | 198 | 295.6 | 378.8 | 537.1 |
| TBL3 | 189.1 | 199 | 185.9 | 134.1 | 133.4 | 140.8 | 143.7 | 181.6 |
| TBN | 113.2 | 138.4 | 100.3 | 92.1 | 82.3 | 82.2 | 119.4 | 138.4 |
| TBP | 1157.3 | 1653.9 | 961.5 | 927.2 | 806.2 | 1358.2 | 1021.6 | 1340.9 |
| TBPIP | 83.7 | 87.2 | 98 | 89.3 | 82.5 | 90.3 | 88.5 | 109.4 |
| TBPL1 | 1011.8 | 1290.7 | 674.8 | 661 | 479.8 | 709.7 | 974.4 | 1726.6 |
| TBPL2 | 123.9 | 137.9 | 98.7 | 100.9 | 95.6 | 94.1 | 115 | 137.2 |
| TBR1 | 82.1 | 96.4 | 86.5 | 82.9 | 79 | 85.9 | 88.4 | 94.7 |
| TBRG1 | 126.8 | 151.4 | 93.8 | 102.5 | 93.3 | 90.7 | 113.8 | 112.1 |
| TBRG4 | 559.1 | 676.7 | 480.1 | 426.2 | 348.1 | 529.1 | 437.7 | 599.6 |
| TBRG4 | 1128.6 | 1319.5 | 834.7 | 633 | 507.5 | 1040.9 | 994.1 | 1462.8 |
| TBRG4 | 221.3 | 288.5 | 148 | 138.5 | 107.8 | 111.1 | 198.7 | 196.8 |
| TBX1 | 138.2 | 153.3 | 102.1 | 90.9 | 82.8 | 94.1 | 120.3 | 201.7 |
| TBX1 | 80.9 | 98.6 | 91 | 86.6 | 76.8 | 83.1 | 91.3 | 90.9 |
| TBX1 | 128.7 | 139.8 | 130.2 | 101.4 | 102.3 | 87.8 | 114 | 136.8 |
| TBX1 | 139.6 | 172.9 | 111.2 | 105.9 | 111.1 | 117.4 | 141.3 | 148.4 |
| TBX10 | 93.3 | 111.6 | 102 | 104.6 | 99.6 | 101.1 | 97.4 | 98.4 |
| TBX15 | 90.7 | 119.5 | 102.3 | 113.5 | 104.8 | 140.2 | 95.8 | 112.5 |
| TBX18 | 324.5 | 405.4 | 199.9 | 164.5 | 139.7 | 157 | 248.6 | 321.1 |
| TBX18 | 386.6 | 461.9 | 205.9 | 198.2 | 209.1 | 288.6 | 299.2 | 633.6 |
| TBX19 | 188 | 228 | 146.5 | 130.6 | 132.6 | 143.7 | 188.4 | 228.7 |

| | | | | | | | | |
|--------|--------|---------|--------|--------|--------|--------|--------|---------|
| TBX2 | 132.2 | 145 | 116.5 | 103 | 87.5 | 116.9 | 146.4 | 241.6 |
| TBX20 | 129.2 | 136.8 | 91.2 | 82.9 | 82.8 | 100 | 128.6 | 148.1 |
| TBX20 | 77.8 | 90.1 | 99.4 | 92.6 | 92.5 | 93.8 | 83.4 | 87.2 |
| TBX21 | 120.1 | 143.5 | 94.7 | 83.6 | 78.4 | 86.3 | 113.6 | 170.2 |
| TBX22 | 75.8 | 81.7 | 88.7 | 90.1 | 86.4 | 87.3 | 80.7 | 72.6 |
| TBX3 | 90.9 | 114.5 | 104.1 | 81.3 | 93.4 | 92.2 | 99.9 | 99.8 |
| TBX3 | 146.9 | 171.9 | 130.6 | 107.8 | 98.9 | 109.5 | 129.2 | 139.5 |
| TBX4 | 91.8 | 91.9 | 94 | 93.3 | 88.8 | 101.2 | 94.3 | 94.3 |
| TBX5 | 88.5 | 96.2 | 83.5 | 88.7 | 85 | 93.6 | 84.9 | 91.5 |
| TBX5 | 77.3 | 91.5 | 86.2 | 84.1 | 82.6 | 84.7 | 86.6 | 86.9 |
| TBX5 | 88.5 | 83.6 | 92.4 | 78.2 | 79.5 | 87.2 | 73.6 | 82.8 |
| TBX6 | 103.5 | 112.4 | 100.2 | 93.9 | 94.3 | 100.5 | 100.9 | 107.9 |
| TBX6 | 93.3 | 106.3 | 93.9 | 88.6 | 82.7 | 88.6 | 99.8 | 103.6 |
| TBX6 | 83 | 89.3 | 99.6 | 92.2 | 90.7 | 85.8 | 85.9 | 90.2 |
| TBXA2R | 91.2 | 100.5 | 97.8 | 99.3 | 85.1 | 90.5 | 97.7 | 118.5 |
| TBXA2R | 82.4 | 111.5 | 91.4 | 87.5 | 72 | 68.8 | 100 | 129.8 |
| TBXA2R | 96.5 | 131.1 | 93.1 | 87.6 | 86.4 | 84.6 | 105.5 | 132.6 |
| TBXAS1 | 152.2 | 184.3 | 112.3 | 214.8 | 192 | 309.7 | 217.7 | 217.5 |
| TCAP | 102.5 | 120.3 | 89.1 | 93.9 | 83.9 | 86.6 | 100.6 | 129.4 |
| TCBA1 | 83.8 | 92 | 93 | 83.8 | 83.1 | 91.9 | 85.5 | 77.4 |
| TCEA1 | 3598.3 | 5657.9 | 1525.7 | 1017.5 | 791.1 | 1603.6 | 2770.9 | 3806 |
| TCEA1 | 600.7 | 706.6 | 159.9 | 145.9 | 131.6 | 137.1 | 355.1 | 681 |
| TCEA1 | 626.5 | 742.8 | 153.4 | 162.6 | 139.5 | 192.9 | 379.9 | 717.5 |
| TCEA2 | 394.6 | 591.5 | 361.6 | 336.9 | 330.2 | 370.5 | 387.7 | 557.9 |
| TCEA2 | 129.5 | 141.9 | 126.6 | 125.4 | 121.9 | 115.9 | 127.1 | 121.1 |
| TCEA2 | 111.6 | 123.1 | 90.8 | 80.2 | 83.3 | 92.3 | 100.5 | 121.3 |
| TCEA3 | 94.8 | 122.6 | 86 | 164.9 | 117.5 | 148.8 | 93.9 | 118 |
| TCEAL1 | 428.2 | 493.2 | 203.2 | 201.8 | 147.6 | 230.3 | 329.1 | 561.1 |
| TCEAL1 | 178.8 | 216.3 | 124 | 137.2 | 110.9 | 139.8 | 156.3 | 188.2 |
| TCEAL2 | 220.8 | 282.9 | 183.8 | 123.6 | 111.7 | 125.4 | 194.7 | 264.1 |
| TCEAL3 | 2475.1 | 3443.5 | 1612.6 | 1250.5 | 1070.8 | 1341.2 | 2349.2 | 2287.3 |
| TCEAL3 | 4854.8 | 6587.8 | 3740.9 | 3017 | 2426.8 | 3100.1 | 4675.9 | 4902.6 |
| TCEAL4 | 122.2 | 144.9 | 109.5 | 89.1 | 89.8 | 97 | 125.9 | 131.7 |
| TCEAL4 | 538.4 | 718.5 | 286.4 | 277.6 | 251.1 | 315.1 | 453 | 576.5 |
| TCEAL4 | 4556.2 | 6065.7 | 3194.8 | 3358.2 | 2707.5 | 3724.7 | 4010.6 | 4468.7 |
| TCEAL5 | 125.3 | 123.8 | 90.7 | 83.6 | 89.3 | 86.5 | 116.9 | 133.6 |
| TCEAL6 | 77.4 | 90.6 | 84.3 | 92 | 92.3 | 88.9 | 81.2 | 84.2 |
| TCEAL7 | 73 | 82.8 | 98.2 | 89.7 | 88.8 | 87.4 | 74.4 | 73.4 |
| TCEAL8 | 1571.8 | 1925.4 | 643.8 | 559 | 439.1 | 616.6 | 1102.2 | 1364.4 |
| TCEAL8 | 1152 | 1441.1 | 406.1 | 316.3 | 255.7 | 317.7 | 821.2 | 1239.9 |
| TCEAL8 | 1606 | 2070.1 | 596.2 | 458.6 | 405.7 | 593.7 | 1439.6 | 1954 |
| TCEB1 | 9298.7 | 10202.3 | 4372.4 | 3114.5 | 2087.6 | 3153.2 | 9046.3 | 11636.4 |
| TCEB2 | 323.3 | 391.6 | 255.9 | 180.3 | 178.8 | 222.4 | 374.2 | 492.5 |
| TCEB2 | 8275.9 | 9957 | 7268.8 | 4928.3 | 4033.3 | 4991.8 | 8142.1 | 9895.5 |
| TCEB3 | 459.2 | 578 | 384 | 363.9 | 331.7 | 398.6 | 391.5 | 370.2 |
| TCEB3B | 75 | 90.3 | 80.2 | 87.4 | 76.1 | 80.6 | 78.4 | 84.9 |
| TCEB3C | 82.7 | 84.8 | 85.7 | 90.2 | 84.1 | 91.2 | 84.3 | 89.1 |
| TCERG1 | 774.5 | 1051.2 | 462.8 | 454.5 | 443.3 | 733.9 | 676.5 | 738.9 |
| TCERG1 | 145.1 | 195 | 108.4 | 109.1 | 107.9 | 96 | 136.4 | 182 |
| TCERG1 | 821.8 | 1085.1 | 299.3 | 304.6 | 315.8 | 441.7 | 653.9 | 1212.8 |

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|---------|--------|--------|-------|--------|-------|--------|--------|--------|
| TCERG1L | 82.5 | 90.6 | 89.9 | 73.2 | 74.9 | 78.8 | 80 | 85.3 |
| TCF1 | 81.8 | 78 | 86.8 | 91.9 | 82.1 | 78.7 | 90.3 | 88.2 |
| TCF12 | 994.8 | 1342.3 | 698.3 | 1220.4 | 910.4 | 2031.3 | 873.3 | 1278.8 |
| TCF12 | 116.3 | 144.9 | 101.2 | 121.5 | 111.7 | 103.6 | 105.7 | 106 |
| TCF15 | 116.7 | 148.6 | 125.7 | 106.2 | 96.6 | 103.9 | 121.4 | 114.8 |
| TCF19 | 129.6 | 140.1 | 90.5 | 87.4 | 77.5 | 88.9 | 110.6 | 141.9 |
| TCF19 | 130.9 | 158.7 | 105.5 | 97.5 | 91.5 | 96.4 | 107.8 | 145 |
| TCF2 | 84 | 104.4 | 84.6 | 87 | 81.9 | 84.5 | 86.6 | 90.7 |
| TCF2 | 81.9 | 90.4 | 100.3 | 94.5 | 93.5 | 90.7 | 83.6 | 98.6 |
| TCF2 | 81 | 84.5 | 87.8 | 80.8 | 79.3 | 79.2 | 91.8 | 89.6 |
| TCF20 | 246.9 | 356.8 | 152.9 | 189.9 | 152.6 | 183.6 | 244.1 | 306.8 |
| TCF20 | 102.2 | 114.8 | 101 | 91.8 | 96 | 89.7 | 111.1 | 114.7 |
| TCF20 | 500.4 | 674.5 | 375.2 | 629.8 | 587.9 | 774.8 | 515.1 | 658.5 |
| TCF21 | 99 | 102 | 89 | 82.6 | 84.2 | 79 | 82.4 | 94.3 |
| TCF21 | 72.3 | 83.3 | 100.9 | 91.6 | 80.6 | 94.6 | 79.3 | 84.3 |
| TCF21 | 81.5 | 94.8 | 96.5 | 96.8 | 80.2 | 87.9 | 97.6 | 91.7 |
| TCF23 | 118 | 139.7 | 101.7 | 86.4 | 84.8 | 96.4 | 113.5 | 130.1 |
| TCF3 | 290.3 | 430.2 | 358.3 | 295.4 | 262.9 | 386.4 | 276.1 | 578.3 |
| TCF4 | 136.3 | 178.2 | 126.1 | 116.8 | 107.1 | 113.2 | 124.6 | 153.3 |
| TCF7 | 100.2 | 106.4 | 93.2 | 94.4 | 96.8 | 95.2 | 98.7 | 106 |
| TCF7 | 104.9 | 131 | 103.8 | 92.4 | 93.6 | 97.3 | 111.2 | 115.7 |
| TCF7 | 98.7 | 107.2 | 88.1 | 87.2 | 76.9 | 81.7 | 83.1 | 112 |
| TCF7 | 78.2 | 83.6 | 85.8 | 85.1 | 78.9 | 80.1 | 75.2 | 80 |
| TCF7 | 80.7 | 84 | 90.1 | 86.5 | 85.3 | 98.8 | 83.1 | 84 |
| TCF7 | 71.8 | 92.3 | 87.2 | 83.4 | 79.1 | 87.2 | 80 | 100 |
| TCF7L1 | 90.8 | 93.4 | 98.8 | 84.9 | 95.5 | 94.2 | 87.2 | 100.8 |
| TCF7L2 | 95 | 106.7 | 92 | 94.2 | 83.9 | 90.8 | 93 | 105.9 |
| TCF8 | 94.2 | 99 | 102.1 | 98.2 | 85.6 | 104.8 | 83.6 | 94.8 |
| TCFL5 | 790.8 | 927.6 | 762.9 | 1042.5 | 763.6 | 1424.2 | 570.3 | 1339.5 |
| TCHHL1 | 70.5 | 76.6 | 92.9 | 78.5 | 83.8 | 70.8 | 83.1 | 83.4 |
| TCHP | 264.2 | 375.4 | 168.5 | 137.1 | 131.7 | 165 | 205.4 | 270.1 |
| TCIRG1 | 619.1 | 727.2 | 773.6 | 673.3 | 651 | 1127.8 | 437.7 | 858.7 |
| TCIRG1 | 88.3 | 107.3 | 104.6 | 96.6 | 101.7 | 93.4 | 97 | 94.7 |
| TCIRG1 | 201.8 | 223.8 | 127.8 | 170.6 | 157 | 103.9 | 141.5 | 215 |
| TCL1A | 89 | 92.4 | 97.4 | 82.3 | 87.4 | 94.1 | 89.6 | 94.4 |
| TCL1B | 109.4 | 144.7 | 91.4 | 78.6 | 86.7 | 79.1 | 99.5 | 120.8 |
| TCL1B | 75.7 | 83.2 | 84.9 | 84.9 | 85.1 | 85.1 | 82.5 | 86.5 |
| TCL6 | 70.8 | 77.4 | 75 | 68.9 | 82.2 | 80.5 | 77.6 | 82.4 |
| TCL6 | 150.5 | 178.9 | 101.5 | 89.9 | 91 | 100.3 | 146.8 | 127.7 |
| TCL6 | 98.6 | 107.9 | 94.2 | 99.6 | 88.8 | 97.8 | 100.4 | 98.3 |
| TCN1 | 156.2 | 188.9 | 125.6 | 194.9 | 147.5 | 201.3 | 141.5 | 161.4 |
| TCN2 | 77.3 | 88.6 | 101.9 | 102.9 | 84.5 | 98 | 89.8 | 91.7 |
| TCOF1 | 76.2 | 100.2 | 101.8 | 104.2 | 83.3 | 109.6 | 87.7 | 79 |
| TCOF1 | 118 | 124.2 | 98.2 | 95.6 | 94.8 | 100.3 | 101.6 | 127.6 |
| TCOF1 | 107.8 | 124 | 89.2 | 90.2 | 76.9 | 87.3 | 108.3 | 119.6 |
| TCOF1 | 123.2 | 159.1 | 107.1 | 99.7 | 93.4 | 113.8 | 125.1 | 139.9 |
| TCP1 | 3090.5 | 4010.4 | 582.9 | 493.1 | 378.1 | 520.6 | 1977.7 | 3382.3 |
| TCP1 | 321.9 | 376.2 | 140 | 119 | 123.2 | 158.8 | 226.5 | 338.7 |
| TCP10 | 90.4 | 92.5 | 94.7 | 84.9 | 86.5 | 79.5 | 88.3 | 84.5 |
| TCP10L | 121.3 | 171 | 109.2 | 88.2 | 95.1 | 97.6 | 151.8 | 167.6 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| TCP11 | 90 | 93.2 | 95.9 | 91.5 | 92.2 | 89.4 | 89.5 | 91.6 |
| TCP11L1 | 73.6 | 84 | 88.4 | 83.4 | 79.3 | 82.4 | 70 | 74.7 |
| TCP11L2 | 85.6 | 92.2 | 78.1 | 79 | 83.3 | 77.9 | 88.6 | 97.6 |
| TCTA | 242.7 | 315.8 | 197.5 | 181.7 | 171.3 | 233.6 | 223.5 | 297.6 |
| TCTEX1D1 | 1189 | 1360.7 | 882 | 673 | 549.9 | 809.3 | 982 | 1628 |
| TDGF1 | 89.2 | 96 | 107.7 | 101.5 | 92 | 88.5 | 96.4 | 102.4 |
| TDGF3 | 91.9 | 100.6 | 82.1 | 82.3 | 76.4 | 86.2 | 89.7 | 101.4 |
| TDH | 80.5 | 90.4 | 86.5 | 84.3 | 85.9 | 92.4 | 83.5 | 83.3 |
| TDO2 | 78.1 | 92.4 | 92.8 | 85.7 | 89.3 | 84.8 | 78.8 | 88.3 |
| TDP1 | 800.7 | 708.8 | 514.3 | 474.8 | 428.4 | 361.5 | 703.4 | 1111.4 |
| TDP1 | 216.4 | 254.1 | 165.8 | 148.5 | 111.1 | 144 | 171.5 | 178.8 |
| TDP1 | 360.7 | 478.4 | 272.7 | 224.5 | 203.3 | 221.2 | 339.7 | 305.8 |
| TDRD1 | 328.1 | 288.4 | 300.9 | 412.6 | 345.1 | 304.4 | 315.5 | 567.8 |
| TDRD10 | 89.8 | 89.2 | 91.2 | 100.3 | 84.8 | 99.3 | 93.3 | 89.4 |
| TDRD3 | 230.3 | 254.6 | 141.5 | 137.6 | 123.7 | 143 | 180.6 | 284.2 |
| TDRD4 | 83.5 | 87.5 | 99 | 85.4 | 92 | 89.8 | 85.1 | 94.2 |
| TDRD5 | 73.7 | 75.8 | 93.8 | 86.3 | 83.6 | 79.6 | 76.2 | 84 |
| TDRD6 | 121.1 | 141.8 | 104.6 | 94.1 | 91.2 | 87 | 114.9 | 128.8 |
| TDRD7 | 3883.6 | 4556.6 | 2671.8 | 3567.8 | 3069.4 | 4692.3 | 1760.8 | 1995.9 |
| TDRD9 | 179.3 | 225.4 | 97.7 | 97.8 | 91.4 | 94.8 | 172.8 | 171.3 |
| TDRKH | 111.1 | 124.9 | 109.8 | 102 | 91.1 | 106 | 97.1 | 121.1 |
| TEAD1 | 129.4 | 137.3 | 103.3 | 83.3 | 86.3 | 96.7 | 120.8 | 130.4 |
| TEAD2 | 340.2 | 370.7 | 266.3 | 171 | 165.3 | 168.2 | 273 | 317.9 |
| TEAD3 | 98.4 | 114.4 | 95.7 | 85.7 | 89.2 | 91.9 | 104.9 | 122 |
| TEAD4 | 96.7 | 124.2 | 85.2 | 80.5 | 72.4 | 83.9 | 96.6 | 128.4 |
| TEAD4 | 123.2 | 135.7 | 117.9 | 107.1 | 99.9 | 115.8 | 113.6 | 119.5 |
| TEAD4 | 618.1 | 825.1 | 266.9 | 174.4 | 161.2 | 156.8 | 486.1 | 375 |
| TEC | 183.8 | 190.1 | 108.2 | 101 | 94.1 | 96.4 | 139.3 | 160.1 |
| TECTA | 199 | 216.6 | 111.7 | 103.8 | 87.8 | 110 | 200 | 190.9 |
| TCTB | 77.6 | 116.7 | 95.3 | 83.6 | 85.9 | 84.7 | 94.8 | 94.8 |
| TEDDM1 | 110.9 | 124.7 | 97.6 | 99.7 | 91 | 97.4 | 100.8 | 109.4 |
| TEF | 272.4 | 349.9 | 201.4 | 202.9 | 161.4 | 197.3 | 266.8 | 435.8 |
| TEGT | 3821.4 | 4965.8 | 2851.8 | 2593.3 | 2064.1 | 4015.4 | 3493.5 | 5319.3 |
| TEK | 88.3 | 103.3 | 106.6 | 103.5 | 91.9 | 93.5 | 97.2 | 111 |
| TEKT1 | 109.7 | 124.1 | 100.8 | 104.9 | 93 | 98.6 | 104.1 | 132.4 |
| TEKT2 | 101.2 | 115.5 | 122.1 | 113.3 | 115.7 | 104.9 | 88.3 | 96 |
| TEKT3 | 97.2 | 100.3 | 90.3 | 82.2 | 82.4 | 76.5 | 84.3 | 98.4 |
| TEKT4 | 87.7 | 89.6 | 90.5 | 77.2 | 75.7 | 76.1 | 87.8 | 94.5 |
| TENC1 | 90.9 | 103.8 | 87.4 | 94.8 | 90.1 | 87.9 | 87.6 | 97.2 |
| TENC1 | 100.8 | 114.1 | 88.9 | 89.5 | 81.8 | 84.1 | 93 | 96.3 |
| TENC1 | 101.5 | 114.9 | 100.9 | 95.2 | 91.7 | 90.1 | 99.3 | 112.6 |
| TENC1 | 88.3 | 108.7 | 82 | 90.7 | 82 | 83.7 | 84.5 | 97 |
| TENR | 87.2 | 90 | 92.5 | 82.3 | 79.5 | 89.7 | 86 | 89 |
| TEP1 | 89.4 | 98.7 | 95.9 | 93.6 | 97.4 | 91.6 | 80.6 | 88.6 |
| TEPP | 98.1 | 124.7 | 98.1 | 92.8 | 92.9 | 83.2 | 102 | 119.4 |
| TEPP | 100.7 | 118 | 94.5 | 90 | 88.5 | 92.2 | 98.5 | 120.8 |
| TEPP | 103.6 | 122.4 | 87.3 | 87.9 | 85.6 | 87 | 115.3 | 115.9 |
| TERF1 | 647.8 | 892 | 238.5 | 250.7 | 222.2 | 251.5 | 731.6 | 1122.3 |
| TERF1 | 77 | 91.4 | 80 | 85.1 | 81.3 | 79.7 | 80.3 | 81.6 |
| TERF1 | 150.6 | 181.6 | 89.1 | 85.4 | 88.7 | 91.4 | 144.6 | 222.7 |

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|---------|---------|---------|--------|--------|--------|--------|---------|---------|
| TERF2 | 479.1 | 714.5 | 380.3 | 311.5 | 231.9 | 459.9 | 428.5 | 842 |
| TERF2IP | 796.5 | 1204 | 563.3 | 333 | 348.4 | 523.7 | 710.5 | 1177.3 |
| TERT | 90.1 | 100.1 | 104.5 | 90.3 | 89.1 | 93 | 88.3 | 104.2 |
| TERT | 112.4 | 130.1 | 92.1 | 87.7 | 86.7 | 98.4 | 114 | 109 |
| TES | 131.2 | 170.3 | 105.9 | 96 | 92 | 124.4 | 128.7 | 147.8 |
| TES | 247.5 | 300 | 125.8 | 108.1 | 114.4 | 104.4 | 214.1 | 277.2 |
| TESC | 793.1 | 1014.8 | 419.9 | 198.9 | 181.2 | 218.3 | 577 | 860.2 |
| TESK1 | 174.5 | 204.9 | 221.7 | 178.3 | 167.1 | 176 | 243.4 | 507.8 |
| TESK2 | 131.6 | 171.3 | 118.9 | 135.8 | 122.3 | 155.4 | 129.2 | 196 |
| TESSP2 | 152 | 166.3 | 93 | 90.7 | 88.7 | 77 | 141.5 | 170 |
| TESSP5 | 130.7 | 139.5 | 108.4 | 92.4 | 96.7 | 95.7 | 112.3 | 116.4 |
| TETTRAN | 13843.1 | 16728.7 | 9946.3 | 7119 | 6180.4 | 6629.6 | 11463.6 | 12861.4 |
| TEX10 | 674.4 | 946.7 | 551.6 | 359 | 299 | 500.1 | 501.6 | 714.8 |
| TEX101 | 91.9 | 106.2 | 96.2 | 81.6 | 78.5 | 80.1 | 103.1 | 100.5 |
| TEX11 | 112.9 | 111.4 | 100 | 93.6 | 86.6 | 88.5 | 112.3 | 103.5 |
| TEX11 | 86 | 81.5 | 96 | 76.3 | 75.7 | 82.2 | 80.6 | 89.1 |
| TEX11 | 74.3 | 82.3 | 82.8 | 80.2 | 83.2 | 77.8 | 73.4 | 79.7 |
| TEX12 | 96.1 | 104.2 | 91.8 | 83 | 77.7 | 84.5 | 95.3 | 91.4 |
| TEX13A | 128.4 | 146.4 | 107.7 | 95.7 | 100.1 | 102.4 | 123.9 | 136.2 |
| TEX13B | 91.3 | 91.6 | 91.4 | 85.7 | 94.5 | 92 | 83.1 | 97.9 |
| TEX14 | 100.5 | 109.8 | 90.4 | 90.2 | 82.2 | 88.4 | 93.5 | 97.8 |
| TEX14 | 83.1 | 91.9 | 90 | 86.5 | 79.6 | 80 | 85 | 88.3 |
| TEX15 | 201.1 | 258.5 | 132.9 | 102.1 | 97.5 | 132.3 | 132 | 206.4 |
| TEX2 | 760.1 | 965.9 | 669.2 | 965.3 | 689.7 | 1217.3 | 551.3 | 717.7 |
| TEX261 | 258.7 | 339.5 | 230.2 | 173.8 | 149.9 | 179.4 | 229 | 242.2 |
| TEX264 | 747.6 | 938.4 | 431.6 | 283.9 | 258.9 | 263 | 714.8 | 874.6 |
| TEX9 | 84.3 | 99.7 | 93.2 | 91.4 | 83.7 | 91.6 | 92 | 95.2 |
| TF | 77.5 | 81.9 | 105.4 | 98 | 87 | 100.7 | 78.6 | 86.7 |
| TFAM | 1606.1 | 1991.3 | 1149.1 | 941.1 | 638.6 | 1075.2 | 1275.9 | 1914.8 |
| TFAP2A | 228.6 | 224.2 | 133.9 | 147.6 | 141.8 | 145.1 | 212.7 | 264.9 |
| TFAP2A | 220.9 | 285.6 | 126.9 | 141.2 | 129.9 | 143.1 | 168.2 | 213.6 |
| TFAP2A | 113.8 | 127.3 | 90.2 | 86.9 | 85.4 | 82.9 | 118.6 | 120 |
| TFAP2A | 111.2 | 102.9 | 95.5 | 93.1 | 90.1 | 91.5 | 101.6 | 104.4 |
| TFAP2B | 86.9 | 96.2 | 91.4 | 88.6 | 79.1 | 79 | 80.7 | 87.4 |
| TFAP2C | 138.7 | 162.5 | 104 | 244.8 | 209.7 | 257.1 | 168.5 | 217 |
| TFAP2D | 81.4 | 91 | 104 | 91.9 | 88.1 | 92.6 | 86.5 | 100.4 |
| TFAP2E | 94 | 96 | 105.2 | 91.2 | 100.1 | 96 | 92.9 | 125.2 |
| TFAP4 | 145.7 | 192.5 | 142.9 | 120.5 | 99 | 136 | 131.4 | 146.8 |
| TFB1M | 932.8 | 1251.3 | 720.7 | 771.2 | 678.8 | 754.3 | 753 | 852.9 |
| TFB2M | 2603.7 | 3534.9 | 1552.5 | 1299.6 | 739.6 | 1016.7 | 2100.5 | 3866.6 |
| TFCP2 | 708.8 | 939.7 | 547.9 | 533.5 | 467.2 | 658.3 | 592.2 | 880.4 |
| TFCP2L1 | 75.9 | 89.9 | 88.9 | 89.4 | 81.2 | 85.6 | 88 | 77.4 |
| TFDP1 | 6856.4 | 7973.9 | 4759.2 | 4276.4 | 3165.8 | 4963.2 | 5754.8 | 8939.7 |
| TFDP2 | 199 | 256 | 157.9 | 127.8 | 125.6 | 144.5 | 203 | 237.7 |
| TFDP3 | 81.1 | 90.4 | 101.6 | 99.4 | 97 | 100.9 | 78.9 | 82.3 |
| TFE3 | 135 | 155.3 | 129.2 | 136.2 | 127.8 | 146.7 | 168.8 | 259.8 |
| TFEB | 92.6 | 98.1 | 114.4 | 100.2 | 92.4 | 109.2 | 88.7 | 109.5 |
| TFEC | 96 | 122.8 | 109 | 99.9 | 94.9 | 91 | 104.5 | 130.3 |
| TFEC | 83.1 | 103.2 | 82.3 | 106.7 | 89.2 | 79.6 | 84.7 | 92.9 |
| TFF1 | 84.1 | 105.7 | 99.9 | 89.8 | 79.4 | 101.1 | 93.6 | 108.7 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| TFF2 | 85.9 | 98.9 | 98 | 85.5 | 80.7 | 87.6 | 75 | 95.1 |
| TFF3 | 82.1 | 97 | 97.4 | 83.4 | 83.2 | 88.1 | 94 | 91.9 |
| TFG | 358.8 | 456 | 167.2 | 107.6 | 97.9 | 91.7 | 223.1 | 244.9 |
| TFG | 4489.5 | 5442.8 | 2092.6 | 2702.6 | 1896.4 | 2731.2 | 4668.9 | 7826.6 |
| TFIP11 | 339.8 | 440.5 | 319.5 | 285.9 | 243.6 | 362.2 | 285.1 | 410.5 |
| TFIP11 | 408.9 | 483.8 | 330.3 | 289.4 | 247.1 | 382.4 | 375.8 | 463 |
| TFIP11 | 249.9 | 317.3 | 190.5 | 212.7 | 174.4 | 198.7 | 239.1 | 284.7 |
| TFPI | 81.5 | 110.7 | 92.6 | 85.3 | 92.5 | 91.3 | 108 | 116 |
| TFPI | 79.5 | 87.5 | 91.2 | 93.9 | 87.9 | 91 | 78.7 | 78.5 |
| TFPI | 98 | 114.5 | 81.5 | 85.9 | 81.4 | 84.8 | 108.8 | 149.2 |
| TFPI2 | 80.3 | 79.7 | 89.7 | 87.1 | 86.1 | 83.6 | 90.5 | 83.8 |
| TFPT | 747.7 | 854 | 556.9 | 449.8 | 396.8 | 559.1 | 754 | 875.2 |
| TFR2 | 107 | 118 | 91.3 | 95.5 | 87.6 | 100 | 103.9 | 117.8 |
| TFRC | 5945.6 | 7733.5 | 4376.6 | 4343 | 3190.7 | 5151.2 | 5630.5 | 6765.5 |
| TG | 79.7 | 100.4 | 97.9 | 93.2 | 97.4 | 94.8 | 94.4 | 82.9 |
| TGDS | 910.8 | 1243.5 | 483.6 | 492.4 | 342.2 | 552.3 | 761.7 | 1364.9 |
| TGFA | 87 | 105.6 | 99.3 | 96 | 94.9 | 97.2 | 85.2 | 112.8 |
| TGFB1 | 102.3 | 105.4 | 108.9 | 106.1 | 97.5 | 98 | 91.2 | 114.5 |
| TGFB111 | 107.9 | 115.9 | 94.5 | 89.1 | 87.4 | 87.3 | 104.4 | 115.2 |
| TGFB111 | 121.2 | 160.4 | 108.7 | 99.2 | 89.3 | 94.8 | 124.9 | 151.1 |
| TGFB2 | 89.7 | 95.5 | 95.7 | 80.5 | 78.6 | 86.1 | 80 | 85.1 |
| TGFB3 | 106.4 | 133.4 | 106.3 | 97.7 | 102 | 112.9 | 104 | 131.9 |
| TGFBI | 2471.3 | 2906.7 | 2324.1 | 7438.3 | 5399.5 | 7900.6 | 2247.9 | 3651 |
| TGFBR1 | 116.1 | 138.4 | 101.6 | 106.3 | 100.4 | 105.7 | 104.7 | 137.8 |
| TGFBR2 | 148.6 | 161 | 124.7 | 109.9 | 114.2 | 108.9 | 142.3 | 157.6 |
| TGFBR2 | 465.8 | 604.6 | 361.9 | 549.9 | 420.7 | 617.4 | 506.3 | 855.6 |
| TGFBR3 | 269 | 390.5 | 220.1 | 250.1 | 243.3 | 365.8 | 221.6 | 266.4 |
| TGFBRAP1 | 255.5 | 330.4 | 216.4 | 199 | 161.3 | 134.5 | 240.8 | 263 |
| TGIF | 99.6 | 103.9 | 98.8 | 97.9 | 85.9 | 93.9 | 86.1 | 94.5 |
| TGIF | 99 | 105.1 | 88.2 | 87.7 | 76.7 | 79.2 | 95.7 | 99.4 |
| TGIF | 98.3 | 102.8 | 105.3 | 100.5 | 95.4 | 97.6 | 99.9 | 105.2 |
| TGIF1 | 98.5 | 125.5 | 90.7 | 75.2 | 79.8 | 81.3 | 105.8 | 107.6 |
| TGIF1 | 433 | 568.7 | 314.6 | 336.6 | 268.5 | 520.7 | 466.7 | 881.8 |
| TGIF1 | 100.1 | 122.2 | 111 | 103 | 92.6 | 94.8 | 108.7 | 122.2 |
| TGIF2 | 488.5 | 616.6 | 251.2 | 252.1 | 214.1 | 274 | 396.7 | 467.7 |
| TGM1 | 85.2 | 94 | 89.1 | 94.5 | 91.7 | 85 | 93.5 | 102.7 |
| TGM2 | 131.9 | 155.4 | 91.7 | 85.2 | 80.9 | 117.6 | 151.2 | 154.5 |
| TGM2 | 113.7 | 127.6 | 117.6 | 98.5 | 94.4 | 94.2 | 104.4 | 101 |
| TGM2 | 151.7 | 152.6 | 95 | 93.7 | 84.5 | 91.3 | 140.7 | 173.1 |
| TGM3 | 124.5 | 153.8 | 92.5 | 87 | 81.4 | 79.3 | 130.9 | 135.7 |
| TGM4 | 111 | 140.8 | 98.3 | 110.2 | 105.8 | 111.6 | 103.3 | 107.1 |
| TGM5 | 666.7 | 849.2 | 489.6 | 514.6 | 398.1 | 689.4 | 415.6 | 559.7 |
| TGM5 | 364.6 | 487 | 263.9 | 268.4 | 206.9 | 312.8 | 239.5 | 294.9 |
| TGM5 | 100.9 | 131.8 | 96 | 86.4 | 82.5 | 80.8 | 98.9 | 104.1 |
| TGM6 | 88.8 | 98.5 | 94.1 | 86 | 76.8 | 80 | 86.3 | 101.5 |
| TGM7 | 173.2 | 189.8 | 102.1 | 92.9 | 100 | 87.6 | 145.6 | 167.6 |
| TGOLN2 | 1898.6 | 2403.5 | 1055.3 | 1275.6 | 1083.2 | 1271.2 | 2001.8 | 1826 |
| TH | 101.2 | 105.7 | 101.4 | 85.4 | 86.4 | 84.1 | 96.2 | 100.8 |
| TH | 87.1 | 103.4 | 90.5 | 78.5 | 77 | 80.2 | 84.1 | 106.6 |
| TH1L | 1743.6 | 2465.7 | 1133.6 | 896 | 804 | 1027.8 | 1712.2 | 2135.6 |

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|--------|--------|--------|--------|--------|-------|--------|--------|--------|
| THADA | 310.5 | 376.2 | 314.8 | 358.3 | 265.8 | 444.1 | 246.7 | 272.3 |
| THADA | 91.5 | 119.1 | 86.6 | 85 | 73.8 | 91.4 | 85.1 | 90 |
| THAP1 | 659.3 | 996.4 | 282.4 | 197.3 | 161.9 | 191.8 | 531.2 | 650.3 |
| THAP1 | 193 | 208 | 111.6 | 123.3 | 107.4 | 132.8 | 162.3 | 322 |
| THAP10 | 486 | 597.7 | 263.5 | 223.9 | 224.9 | 291.4 | 496.2 | 759.3 |
| THAP11 | 2645.4 | 3452.6 | 1788.3 | 1188.5 | 920.1 | 1274.9 | 2231.3 | 2723.9 |
| THAP2 | 75.8 | 76.9 | 101.2 | 92.6 | 95.2 | 98.9 | 71.4 | 89 |
| THAP3 | 97.5 | 135.8 | 108 | 94.1 | 90.9 | 93.9 | 112.4 | 128.8 |
| THAP4 | 197.4 | 234.4 | 133.1 | 116.1 | 108.5 | 88.7 | 161.4 | 175.2 |
| THAP5 | 97.1 | 94.4 | 96.3 | 85.6 | 76.1 | 83.5 | 83.6 | 100.4 |
| THAP6 | 237.3 | 303.5 | 256.4 | 215.4 | 212.5 | 269 | 203.7 | 291.3 |
| THAP7 | 211.4 | 226.8 | 137 | 111.1 | 116.4 | 118.9 | 153.2 | 202.4 |
| THAP7 | 399.8 | 506.3 | 302.4 | 222.2 | 202.1 | 286.2 | 308 | 378.8 |
| THAP7 | 107.2 | 117.4 | 103.2 | 98.3 | 90.2 | 88.4 | 105.3 | 122.9 |
| THAP8 | 78.6 | 97.3 | 84.7 | 78.8 | 73 | 81.4 | 80.6 | 103.8 |
| THAP9 | 86.6 | 96.7 | 96.7 | 91.7 | 84.5 | 100.9 | 91.6 | 109.1 |
| THBD | 169.7 | 225.6 | 149 | 157.2 | 127.2 | 180.6 | 183 | 216 |
| THBS1 | 75.2 | 81.6 | 93.7 | 87.7 | 78.6 | 87 | 126.3 | 175.9 |
| THBS2 | 93.9 | 121.1 | 106.2 | 84.5 | 85.4 | 102.5 | 94.1 | 113.3 |
| THBS3 | 159.8 | 166.3 | 100 | 93.8 | 82.7 | 98.5 | 145.3 | 146.9 |
| THBS4 | 690.1 | 628.8 | 591.6 | 567 | 486.5 | 819.4 | 354.7 | 427.5 |
| THEDC1 | 106.8 | 124.9 | 98.2 | 86.9 | 93.3 | 96.3 | 99.9 | 123.5 |
| THEG | 97.5 | 115.4 | 122 | 107.5 | 103.2 | 114.4 | 95.7 | 109.2 |
| THEG | 99 | 108.6 | 104.6 | 98.2 | 95.1 | 87.8 | 91.6 | 95.1 |
| THEM2 | 665.7 | 788.2 | 474.2 | 514.1 | 388 | 692.7 | 587.1 | 790.3 |
| THEM4 | 112.3 | 127.4 | 95 | 99.6 | 81 | 92.8 | 115.7 | 124.8 |
| THEM5 | 93.7 | 105.2 | 107.6 | 88.6 | 84.1 | 91.8 | 96.9 | 105.1 |
| THEX1 | 109.8 | 129.5 | 75.4 | 76.7 | 73.4 | 85.4 | 96.5 | 139.2 |
| THG1L | 217.1 | 265.6 | 180.2 | 170.9 | 153.7 | 181.3 | 198.6 | 252.3 |
| THNSL1 | 162.8 | 229.7 | 129 | 121.3 | 114.9 | 153.7 | 134.5 | 190.6 |
| THOC1 | 1024.5 | 1180.1 | 411.3 | 460.4 | 333.1 | 572 | 785.7 | 1316.4 |
| THOC2 | 898.8 | 1262.2 | 282.9 | 480.8 | 428.6 | 463 | 756.1 | 977.1 |
| THOC2 | 220.5 | 301.4 | 164.2 | 138.7 | 121.4 | 136.8 | 204.8 | 283.3 |
| THOC3 | 2283.3 | 3246 | 623.9 | 563.2 | 428.4 | 560.8 | 1723.8 | 2480.1 |
| THOC3 | 1554.1 | 2560.6 | 1097.3 | 965.2 | 773.1 | 1219.7 | 1313.3 | 1289.2 |
| THOC4 | 2833.5 | 3775.8 | 832.5 | 397.5 | 321.2 | 250.7 | 2877.4 | 3751 |
| THOC5 | 850.1 | 1146.7 | 641.9 | 406.1 | 396.9 | 538.9 | 741 | 663.6 |
| THOC5 | 670.8 | 865.1 | 663.7 | 412.2 | 390.6 | 578.6 | 541.2 | 739.8 |
| THOP1 | 818.8 | 980 | 1050.9 | 617 | 500.2 | 693.3 | 699.3 | 1261 |
| THPO | 91.2 | 83.9 | 83.3 | 81.4 | 85.4 | 82 | 83.9 | 101.3 |
| THRA | 114 | 128.5 | 114.1 | 125.3 | 100.4 | 85.7 | 124.9 | 113.6 |
| THRA | 108.7 | 123.4 | 91.5 | 91.3 | 90.9 | 87.4 | 117 | 137.7 |
| THRA | 106.4 | 120.8 | 110.9 | 100.5 | 103.4 | 92.6 | 103.3 | 110.3 |
| THRAP1 | 103.3 | 141.7 | 104.5 | 85.3 | 81.1 | 95.5 | 117.8 | 140.3 |
| THRAP2 | 133.8 | 170.5 | 118.5 | 130.7 | 133.4 | 168 | 160.5 | 220.2 |
| THRAP3 | 199.7 | 218.9 | 108.2 | 92.5 | 91.7 | 99.8 | 161.7 | 192.7 |
| THRAP4 | 317.8 | 407.7 | 331 | 251 | 213.3 | 331.7 | 317 | 517.6 |
| THRAP4 | 362.1 | 445.2 | 517.8 | 353.6 | 325.1 | 581.8 | 263.6 | 470.1 |
| THRAP5 | 938.2 | 1218 | 417.7 | 401.8 | 264.4 | 276 | 741.7 | 629.7 |
| THRAP5 | 887.4 | 1123.1 | 675 | 619.9 | 457.8 | 505.8 | 696.2 | 822.3 |

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| THRAP5 | 241.7 | 296.8 | 233.4 | 197.8 | 181.9 | 179.4 | 194.5 | 279.1 |
| THRAP6 | 3944.6 | 4392.8 | 3033.8 | 1919.6 | 1600.1 | 2019 | 3994 | 4724 |
| THRB | 87.1 | 102.3 | 80.3 | 80.1 | 80.8 | 91.1 | 84.2 | 104.6 |
| THRSP | 74.2 | 82 | 87.9 | 89.9 | 85.6 | 86 | 71.9 | 84.4 |
| THSD1 | 80.2 | 96.7 | 85.9 | 80.9 | 76.5 | 79.1 | 85 | 88.8 |
| THSD1 | 79.5 | 93.6 | 86.9 | 82.6 | 74.8 | 87.1 | 86.6 | 96.3 |
| THSD1 | 94.8 | 116.8 | 93.1 | 91.6 | 82.6 | 91 | 100.3 | 108.6 |
| THSD1P | 128.9 | 158.2 | 108.7 | 79.6 | 81.8 | 102.4 | 127.4 | 155.8 |
| THSD1P | 93.7 | 119.4 | 93.5 | 81.5 | 83.2 | 80.1 | 86.9 | 110.3 |
| THSD3 | 118.8 | 139.4 | 85.1 | 79.8 | 74.3 | 77 | 102.8 | 136.4 |
| THSD3 | 101.8 | 121.2 | 97 | 81.2 | 77.5 | 85.1 | 122.2 | 116.1 |
| THSD3 | 83.3 | 103.5 | 93.7 | 80.8 | 89 | 91.8 | 89.4 | 94.2 |
| THSD4 | 97.7 | 100.6 | 99 | 99.1 | 98.6 | 102.1 | 101.9 | 99.6 |
| THSD7B | 82.4 | 94.8 | 97.2 | 91.1 | 79 | 86.6 | 79.6 | 84.1 |
| THTPA | 100 | 115.8 | 101.5 | 99.4 | 84.2 | 93.7 | 100.8 | 123.4 |
| THUMPD1 | 777.6 | 969.2 | 412.6 | 366.4 | 343.2 | 647.9 | 652.3 | 1246.4 |
| THUMPD2 | 744.4 | 936.4 | 330.9 | 329.8 | 259.5 | 378.6 | 600 | 897.4 |
| THUMPD3 | 303.5 | 357.9 | 174.1 | 172.1 | 143.7 | 220.2 | 269.2 | 383.6 |
| THY1 | 89 | 93.9 | 94.7 | 76.6 | 79.4 | 81.2 | 96.6 | 97.8 |
| THYN1 | 1493.8 | 1875.3 | 1051.9 | 613.1 | 460 | 881.6 | 942 | 1285.6 |
| THYN1 | 207.1 | 247.2 | 132.2 | 92 | 88.4 | 99.9 | 154.1 | 174.1 |
| THYN1 | 1192.9 | 1525 | 768.2 | 427.2 | 321.6 | 704.8 | 713.6 | 785.5 |
| TIA1 | 1540.1 | 1828.8 | 982.9 | 1001.3 | 856.2 | 1398 | 1162.6 | 1892.8 |
| TIAF1 | 1025.3 | 1288.1 | 885.8 | 1205.3 | 1228.6 | 1323.5 | 830.9 | 1076.1 |
| TIAL1 | 502.7 | 705.4 | 292.3 | 279.2 | 212.1 | 394.9 | 473.5 | 1043.5 |
| TIAL1 | 1099.7 | 1423.4 | 867.8 | 715.6 | 485.3 | 986.2 | 1125.8 | 2605.5 |
| TIAL1 | 448.4 | 448.9 | 183.4 | 174 | 136 | 169.3 | 375.2 | 664.7 |
| TIAM1 | 86.3 | 103.4 | 102.3 | 90.4 | 93.3 | 81.9 | 98 | 96 |
| TIAM2 | 95 | 98.5 | 99.3 | 97.6 | 74.9 | 81.8 | 89.4 | 102.4 |
| TIAM2 | 91.9 | 104.9 | 93 | 107.8 | 107 | 103.9 | 83.9 | 94.7 |
| TICAM1 | 103.1 | 98.1 | 123.8 | 112 | 91.7 | 109.9 | 95.2 | 134.9 |
| TICAM1 | 737.1 | 983.9 | 436 | 380.1 | 356.9 | 381 | 693.9 | 748.2 |
| TICAM2 | 495.5 | 623 | 369.5 | 366.6 | 265.4 | 368.6 | 521.4 | 869.6 |
| TIE1 | 136.8 | 158.6 | 93.7 | 98.5 | 86.7 | 93.9 | 134.1 | 183.7 |
| TIFA | 182.8 | 248.7 | 137.9 | 132.7 | 109.6 | 136.9 | 143.9 | 150.7 |
| TIGD1 | 102.6 | 127.8 | 98 | 100.9 | 91.8 | 104.9 | 102.7 | 117.5 |
| TIGD2 | 437.8 | 505.7 | 375.5 | 303.1 | 214 | 364.5 | 351.4 | 723.2 |
| TIGD3 | 113.4 | 133.8 | 91.2 | 94.9 | 85.7 | 91.6 | 94.9 | 123.1 |
| TIGD4 | 84.9 | 93.4 | 83.6 | 79.4 | 75.7 | 78.9 | 84.3 | 84.6 |
| TIGD5 | 1380 | 1722.4 | 1142.7 | 608.2 | 505.5 | 718.3 | 1041 | 987.3 |
| TIGD6 | 126.9 | 163.3 | 118.5 | 117 | 121.9 | 123.8 | 113.6 | 130.8 |
| TIGD7 | 252.5 | 282.8 | 159.5 | 157 | 152.6 | 209.3 | 192.1 | 265 |
| TIMD4 | 77.4 | 92.4 | 81.8 | 88.4 | 79.9 | 88 | 82.7 | 82.4 |
| TIMELESS | 1104.7 | 1339.5 | 980.5 | 783.1 | 710.8 | 813.9 | 898.2 | 925.6 |
| TIMM10 | 2771.1 | 3429.5 | 2735.5 | 1735.8 | 1207.1 | 1899.7 | 2525.1 | 3058 |
| TIMM13 | 115.8 | 147.4 | 102.3 | 87 | 78.8 | 89.2 | 135.9 | 164.7 |
| TIMM17A | 202.3 | 223 | 124.2 | 110.6 | 102.3 | 113 | 178.3 | 218.6 |
| TIMM17B | 616.9 | 747.6 | 390.1 | 299.7 | 277.2 | 280.9 | 576.9 | 824.2 |
| TIMM22 | 1039.2 | 1473.3 | 680.6 | 572 | 453.8 | 491 | 890.8 | 908.8 |
| TIMM23 | 1372.2 | 1751.4 | 730.9 | 487.8 | 385.5 | 574.3 | 1203.9 | 2279.8 |

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|---------|---------|---------|--------|--------|--------|---------|---------|---------|
| TIMM23 | 5798 | 6806.4 | 2581.3 | 1734.8 | 1249.7 | 2248.5 | 4518.5 | 6837.8 |
| TIMM23 | 2001.2 | 2681.6 | 1300.5 | 889.4 | 642.1 | 1131.9 | 1466.8 | 1961.3 |
| TIMM44 | 408.5 | 573.6 | 301.2 | 229.8 | 200 | 316.8 | 363.9 | 531.8 |
| TIMM50 | 88.1 | 87.9 | 80.2 | 87.8 | 82.1 | 82.7 | 86.2 | 88.8 |
| TIMM8A | 426.8 | 545.5 | 165.1 | 146.1 | 129.1 | 144.1 | 344.3 | 408.1 |
| TIMM8B | 340 | 391.1 | 157.8 | 133.3 | 121.1 | 130.8 | 315.6 | 347.6 |
| TIMM9 | 1008.4 | 1194.7 | 343.7 | 234.3 | 195.8 | 275.1 | 772.9 | 1611.2 |
| TIMP1 | 5067.7 | 6419.4 | 4583 | 5097.1 | 4205.7 | 4194.4 | 5399.4 | 6821.7 |
| TIMP2 | 920.2 | 1375.4 | 1030.1 | 2060.1 | 1716.6 | 2586.5 | 917.6 | 1346.1 |
| TIMP2 | 275.9 | 353.1 | 189.8 | 236.9 | 220.9 | 208.3 | 257.6 | 396.8 |
| TIMP3 | 321.4 | 481.6 | 263.6 | 155.6 | 154.9 | 248.7 | 255.3 | 260.4 |
| TIMP4 | 108.1 | 110.2 | 88.9 | 85.3 | 84.6 | 83 | 95.1 | 102.5 |
| TINAG | 116.1 | 137.5 | 94.5 | 89.1 | 86.5 | 89.6 | 106.3 | 122.3 |
| TINAGL1 | 79.5 | 96.3 | 90 | 76.6 | 82.1 | 81.7 | 84.7 | 79.8 |
| TINF2 | 819.8 | 1177.6 | 621.6 | 521.2 | 480.1 | 672 | 857.2 | 762.1 |
| TINP1 | 10277.1 | 12800.1 | 7877.8 | 9192.8 | 7668.9 | 12913.1 | 10067.2 | 13278.9 |
| TIP39 | 99.3 | 111.8 | 103 | 102.8 | 95.4 | 88.5 | 95.9 | 98.9 |
| TIPARP | 651.2 | 810.8 | 383.1 | 519.8 | 431.7 | 739.4 | 819.7 | 1344.7 |
| TIPRL | 1834.4 | 2349.4 | 789.2 | 662.9 | 510 | 790.7 | 1230 | 2160.2 |
| TIPRL | 409.1 | 530 | 326.3 | 276.1 | 213.3 | 493.4 | 364.2 | 776.9 |
| TIRAP | 110.3 | 150.8 | 88.1 | 95.3 | 84.4 | 82.5 | 116.7 | 166.1 |
| TIRAP | 140 | 170.4 | 103 | 98.1 | 95.2 | 82.8 | 120.2 | 169.7 |
| TIRAP | 172.8 | 224.8 | 108.2 | 101.9 | 95.1 | 96.9 | 156.5 | 208.9 |
| TITF1 | 76.7 | 82.9 | 82.1 | 83.4 | 73.5 | 78.4 | 81.2 | 79.4 |
| TITF1 | 95.7 | 94.8 | 94.7 | 81.1 | 81.2 | 91.7 | 92.5 | 89.1 |
| TJAP1 | 2444.7 | 2992.3 | 1719.3 | 1521.4 | 1556.6 | 1641.2 | 2121 | 2033.2 |
| TJP1 | 81.1 | 104.6 | 85.3 | 76.2 | 82.6 | 86.8 | 90.7 | 89.2 |
| TJP1 | 115.4 | 142.1 | 97.2 | 90.7 | 80.2 | 97.4 | 122.5 | 122.3 |
| TJP2 | 128.8 | 147.6 | 116.7 | 108.9 | 92.8 | 113.3 | 121.1 | 133.9 |
| TJP2 | 106.2 | 152 | 118.2 | 92.9 | 89.6 | 115.5 | 102.8 | 97.1 |
| TJP3 | 101.9 | 117.3 | 130.5 | 113.8 | 114.3 | 124.1 | 105.7 | 117 |
| TK1 | 3106.1 | 4019.6 | 3174.9 | 1716.8 | 1509.3 | 1627.6 | 2932.3 | 3958.7 |
| TK2 | 205.4 | 258.5 | 166.8 | 138.3 | 135.9 | 166 | 168.8 | 227.4 |
| TKT | 5411.7 | 7158.1 | 5107.5 | 4888.9 | 4242.8 | 5728.1 | 6812.4 | 9658.4 |
| TKTL1 | 99.4 | 135.7 | 85 | 82.2 | 78.5 | 89.1 | 100.2 | 109.5 |
| TKTL2 | 69 | 93.5 | 88.6 | 88.2 | 75.3 | 91.6 | 80.7 | 77.7 |
| TLCD1 | 123.2 | 151.7 | 120.6 | 115.6 | 92.6 | 106.8 | 123.1 | 136.1 |
| TLE1 | 314.8 | 366.9 | 174.2 | 157.4 | 146 | 157.7 | 253.4 | 274.7 |
| TLE2 | 82.4 | 82.9 | 94.1 | 95.4 | 87.7 | 92.1 | 85 | 91.2 |
| TLE3 | 112.6 | 126.8 | 132.1 | 127.9 | 122.6 | 148.8 | 122.4 | 131.6 |
| TLE4 | 695.3 | 920.9 | 825.5 | 851.7 | 581.6 | 1152.3 | 687.2 | 1427.5 |
| TLE6 | 165.7 | 186.1 | 112.8 | 83.5 | 84.2 | 85.4 | 128 | 165.1 |
| TLK1 | 382.4 | 437.7 | 184.4 | 251.6 | 187.7 | 247.2 | 351.3 | 736.4 |
| TLK2 | 576.3 | 802.9 | 419.3 | 449.1 | 421.1 | 773 | 492 | 718.9 |
| TLL1 | 74.8 | 91.9 | 76.6 | 75.1 | 75.3 | 74.9 | 78.2 | 81.5 |
| TLL2 | 73.8 | 88.7 | 87 | 72.8 | 81 | 80.6 | 72.7 | 79.8 |
| TLN1 | 572.3 | 694 | 473.2 | 603.4 | 467.5 | 516.3 | 537.2 | 717.8 |
| TLN2 | 99.9 | 115.7 | 114.4 | 158.8 | 123 | 175.8 | 103.9 | 117.3 |
| TLOC1 | 314.4 | 477.9 | 240.9 | 561.6 | 398.5 | 573.2 | 301.3 | 411.6 |
| TLR1 | 110.5 | 122.7 | 98.8 | 83.6 | 91.1 | 106 | 121.6 | 152.9 |

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|---------|--------|---------|--------|--------|--------|--------|--------|--------|
| TLR10 | 94 | 110.1 | 104 | 88.9 | 99.4 | 108.4 | 100.5 | 105.8 |
| TLR10 | 96.4 | 113.7 | 90.3 | 107.7 | 86.7 | 82.3 | 88.9 | 109.8 |
| TLR2 | 109.6 | 136.2 | 98.9 | 124.2 | 108.3 | 114.5 | 96.8 | 106.2 |
| TLR3 | 71.1 | 78.8 | 88.9 | 76.6 | 79.2 | 83.1 | 77.1 | 76.5 |
| TLR4 | 204.2 | 246.5 | 154.7 | 209.1 | 136 | 227 | 171.8 | 207.1 |
| TLR5 | 91.3 | 102.2 | 103.6 | 95.1 | 89.7 | 103.6 | 102.1 | 105.7 |
| TLR6 | 91.7 | 112.7 | 95.5 | 84 | 88.4 | 90.9 | 97.2 | 109.4 |
| TLR7 | 95.4 | 97.4 | 94.9 | 97 | 102.5 | 98.6 | 93.8 | 96.1 |
| TLR8 | 79.5 | 79.9 | 86.7 | 86.9 | 79.1 | 92 | 75.4 | 79.6 |
| TLR8 | 87.2 | 93.6 | 87.7 | 93.7 | 87.1 | 90.4 | 84.1 | 93.1 |
| TLR8 | 74.6 | 87.3 | 85.7 | 93.1 | 94.8 | 92 | 76.7 | 82.9 |
| TLR9 | 97.2 | 120.7 | 101.6 | 101.6 | 93 | 108.4 | 99.6 | 120 |
| TLX1 | 103.5 | 120.7 | 94.4 | 84.1 | 87.5 | 92.7 | 102 | 134.9 |
| TLX2 | 98.9 | 132.9 | 96.5 | 96 | 96 | 99.4 | 93.4 | 108.2 |
| TLX2 | 89.4 | 108.2 | 100.3 | 81 | 84.7 | 83.8 | 91.3 | 81.3 |
| TLX2 | 83.9 | 94.8 | 92.2 | 76.5 | 82.8 | 94.1 | 88.6 | 91.4 |
| TLX3 | 103.4 | 130.7 | 91.7 | 92.4 | 79.8 | 82.5 | 105.4 | 128.6 |
| TM2D1 | 1649.6 | 1936.4 | 875.2 | 889.7 | 726.4 | 1034.3 | 1687.2 | 2705.9 |
| TM2D2 | 326.2 | 424.7 | 251.3 | 214.2 | 167.1 | 273.5 | 310.4 | 637.6 |
| TM2D3 | 232.3 | 292.3 | 152 | 130.9 | 101.1 | 117.1 | 231.7 | 255 |
| TM2D3 | 1267 | 1698.4 | 643.3 | 695.6 | 500.1 | 745 | 1271.6 | 2379.4 |
| TM4SF1 | 93.4 | 98.5 | 93.6 | 89.9 | 82.8 | 89.6 | 162.6 | 231.9 |
| TM4SF11 | 99.6 | 115.6 | 99.1 | 94.3 | 78.2 | 93.1 | 95.7 | 108.8 |
| TM4SF18 | 81.5 | 84.8 | 95.1 | 91.9 | 83.1 | 87.7 | 84.3 | 88.2 |
| TM4SF19 | 88 | 102.4 | 103.3 | 91.3 | 88.6 | 94.8 | 93.6 | 92 |
| TM4SF19 | 89.2 | 85.2 | 90.4 | 94.4 | 82.5 | 79.7 | 91 | 97.3 |
| TM4SF20 | 83 | 75 | 86 | 86.2 | 80.4 | 88.1 | 76.3 | 76.8 |
| TM4SF4 | 81 | 91.2 | 93.6 | 75.8 | 79.8 | 89.6 | 71.8 | 83 |
| TM4SF5 | 77 | 81.9 | 76.2 | 73.9 | 73.4 | 76.2 | 81.4 | 89.7 |
| TM6SF1 | 146.1 | 152.6 | 128.9 | 174.6 | 132.2 | 225 | 126.8 | 171.8 |
| TM6SF2 | 78.2 | 108.1 | 76.9 | 86.9 | 78.5 | 91.2 | 88.3 | 95.1 |
| TM6SF2 | 80.6 | 87.9 | 94.8 | 100.6 | 96 | 91.4 | 86.4 | 92 |
| TM6SF2 | 81.4 | 94.2 | 91.9 | 76.2 | 69.7 | 76.4 | 86.3 | 90.8 |
| TM7SF2 | 516.6 | 721.3 | 456.9 | 231.1 | 269.2 | 325.5 | 515.7 | 660.9 |
| TM7SF3 | 602.1 | 785.3 | 285.6 | 283.9 | 195.4 | 249.9 | 406.4 | 718.7 |
| TM7SF4 | 83.5 | 91.4 | 92.8 | 83.1 | 84.3 | 85.6 | 96.3 | 98.3 |
| TM9SF1 | 390.8 | 554.8 | 332.8 | 268.7 | 212.8 | 248.2 | 330 | 602.2 |
| TM9SF1 | 204.4 | 249.7 | 157.1 | 112.9 | 104.3 | 126 | 160.3 | 205.4 |
| TM9SF1 | 134.7 | 143.4 | 143.7 | 128.6 | 114.7 | 134.4 | 114.6 | 130.5 |
| TM9SF2 | 4077.9 | 5057 | 2227.9 | 2193.5 | 1601.6 | 3132.2 | 3415.8 | 5537.1 |
| TM9SF4 | 712.9 | 790 | 440.9 | 637.5 | 449.6 | 760 | 583.4 | 1300.4 |
| TMBIM1 | 196.5 | 205.8 | 153.4 | 139.1 | 122.5 | 131.3 | 249.6 | 267.2 |
| TMBIM4 | 8012.4 | 10053.3 | 6012.3 | 8860.3 | 6483.9 | 7590.5 | 7793.2 | 8624.2 |
| TMC2 | 96.7 | 119.1 | 84.9 | 87.1 | 85.9 | 91.1 | 100.2 | 141.9 |
| TMC4 | 98.3 | 111.5 | 93 | 88.6 | 85.1 | 98.3 | 93.7 | 108.2 |
| TMC5 | 106 | 124.8 | 93.1 | 79.8 | 93.5 | 89 | 106.3 | 137.8 |
| TMC6 | 613.1 | 742.3 | 519 | 433.6 | 300.9 | 442.3 | 508 | 822.6 |
| TMC7 | 99 | 126.8 | 95.5 | 87.8 | 91.2 | 96.2 | 97.8 | 100.8 |
| TMC8 | 144.7 | 156.9 | 107.6 | 108.7 | 91.1 | 102.6 | 138.7 | 144.9 |
| TMCC1 | 92.1 | 103.8 | 86.4 | 82.2 | 82.5 | 78.7 | 95.9 | 95 |

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|----------|--------|---------|--------|--------|--------|--------|--------|--------|
| TMCC1 | 103.3 | 125.1 | 98.5 | 99.6 | 93.6 | 102.6 | 129.7 | 141.3 |
| TMCC2 | 92.7 | 107.4 | 92.5 | 81.7 | 71.8 | 104.1 | 100.8 | 104.6 |
| TMCC3 | 115.5 | 130 | 92.7 | 88.5 | 78.7 | 82 | 116.7 | 130.1 |
| TMCO1 | 6867.3 | 8580.6 | 4583.4 | 3745.5 | 2768.1 | 3913.4 | 6708.2 | 8701.1 |
| TMCO2 | 103.9 | 103.1 | 94.2 | 77 | 74.8 | 83.7 | 95.1 | 142.3 |
| TMCO3 | 430.9 | 602.3 | 480.6 | 420.2 | 351.9 | 555.3 | 376.8 | 640.4 |
| TMCO4 | 172.9 | 185.1 | 140.5 | 127.8 | 120.6 | 142.5 | 165.2 | 190.7 |
| TMCO5 | 133.8 | 169.3 | 92.5 | 87.6 | 83.5 | 87.5 | 123.1 | 168.2 |
| TMCO6 | 191.1 | 233.5 | 157.1 | 124.3 | 116.6 | 143.7 | 163.7 | 167.5 |
| TMDCII | 81.5 | 86.9 | 85.5 | 82 | 88.2 | 88.1 | 92.5 | 93.9 |
| TMED1 | 716 | 879.3 | 291.2 | 184.5 | 234.3 | 257.8 | 691.7 | 738.9 |
| TMED10 | 2137.7 | 3550.3 | 1578.2 | 1787 | 1357.2 | 2677.3 | 2185.9 | 3029.3 |
| TMED10P | 6085.4 | 7958.9 | 3632.9 | 2294.7 | 2010.5 | 2734.1 | 5895.2 | 7371.2 |
| TMED2 | 2389.1 | 3733.1 | 800.8 | 798.6 | 555 | 1117.4 | 1855.4 | 2736.8 |
| TMED3 | 8156.8 | 10370.3 | 6181.1 | 6514.2 | 4570.8 | 5576.4 | 7909.2 | 7832.4 |
| TMED4 | 1641.5 | 2012.5 | 1232.3 | 1236.2 | 1036.1 | 1011.3 | 1215.4 | 1605.9 |
| TMED5 | 1290.6 | 1571.6 | 769.7 | 823 | 754 | 1186.5 | 1239.3 | 2405.8 |
| TMED6 | 85.7 | 88.2 | 97.2 | 82.9 | 82.2 | 89.1 | 78.1 | 106 |
| TMED7 | 953.2 | 1130.4 | 480.4 | 738.1 | 449.4 | 903.5 | 979.1 | 1695.4 |
| TMED8 | 131.3 | 158.3 | 112.6 | 117.2 | 100 | 91.3 | 113.1 | 141.2 |
| TMED9 | 4318.5 | 6075.4 | 2483.6 | 2371.6 | 1854.7 | 2914.8 | 4486.3 | 7748.7 |
| TMEFF1 | 107.8 | 132.8 | 89.2 | 90.2 | 94.6 | 99.3 | 104.5 | 133.7 |
| TMEFF2 | 78.1 | 81.4 | 81.9 | 83.6 | 79 | 83.8 | 82.9 | 90.1 |
| TMEM1 | 228.9 | 298.6 | 131.9 | 159.9 | 136.4 | 161.7 | 270 | 344.6 |
| TMEM1 | 100.8 | 119.9 | 93.3 | 91.2 | 85.4 | 84.7 | 97.8 | 97.6 |
| TMEM1 | 158.4 | 183.3 | 101.6 | 93.3 | 110.6 | 97.2 | 174.9 | 185.6 |
| TMEM10 | 91.4 | 99.2 | 97.5 | 94.9 | 76.1 | 85 | 88.4 | 96.1 |
| TMEM10 | 71.6 | 86.7 | 98.4 | 87.7 | 88.4 | 84.4 | 76.5 | 78.6 |
| TMEM100 | 110.7 | 111.2 | 107.8 | 95.9 | 95.8 | 108.9 | 96.7 | 113.6 |
| TMEM101 | 1416 | 1938.8 | 1199 | 853.5 | 740.1 | 1126.2 | 1357.8 | 1574.2 |
| TMEM102 | 86.5 | 111.5 | 100.2 | 92.7 | 91.2 | 95.9 | 88.1 | 114.4 |
| TMEM103 | 887.5 | 1106.2 | 517.8 | 960.7 | 806.6 | 1105.5 | 648.2 | 691.7 |
| TMEM103 | 241.3 | 300.3 | 190.1 | 173.1 | 191.5 | 261.3 | 177 | 222.4 |
| TMEM104 | 116.4 | 155.8 | 174.9 | 154.9 | 134.1 | 191.8 | 113.4 | 162.7 |
| TMEM105 | 193 | 226.9 | 151.7 | 103.6 | 122.2 | 122.2 | 175.8 | 151 |
| TMEM106E | 113.1 | 130.5 | 106.7 | 109 | 104 | 121 | 98.4 | 170.9 |
| TMEM106C | 1563.2 | 1902.4 | 596 | 462.4 | 389 | 635.8 | 1256.1 | 1420.1 |
| TMEM107 | 102.5 | 112.3 | 96.5 | 97.4 | 80.7 | 93.6 | 93.5 | 112.6 |
| TMEM108 | 169.7 | 211.5 | 133.6 | 134.9 | 118.9 | 98.4 | 184.7 | 238.2 |
| TMEM109 | 1100.4 | 1484.4 | 875.1 | 780.4 | 556.7 | 862.8 | 905.8 | 1419.5 |
| TMEM11 | 258.1 | 358.5 | 173.1 | 150.1 | 146.9 | 175 | 291.2 | 378.4 |
| TMEM110 | 143.5 | 170.5 | 117.2 | 114.5 | 105.8 | 121.8 | 122.2 | 131.1 |
| TMEM113 | 1079.2 | 1413.3 | 934.4 | 909.8 | 660.6 | 767.3 | 1081.3 | 2163.1 |
| TMEM115 | 740 | 981.3 | 442.8 | 376.2 | 323 | 396.6 | 718.3 | 722.9 |
| TMEM116 | 564.8 | 736.5 | 461.9 | 481.4 | 464.2 | 625.1 | 589 | 851.1 |
| TMEM117 | 168.3 | 231.4 | 115.6 | 119.1 | 98 | 102.3 | 164.2 | 246.9 |
| TMEM118 | 125.3 | 181.7 | 137.4 | 103.3 | 100.8 | 108.8 | 148.9 | 142.2 |
| TMEM119 | 81.5 | 87.6 | 88.8 | 93.8 | 88.6 | 90.8 | 78.2 | 92 |
| TMEM121 | 75.9 | 90.2 | 99.9 | 88.9 | 88.3 | 88.5 | 84 | 82.3 |
| TMEM122 | 80.6 | 97.1 | 90.6 | 95.5 | 83 | 81.2 | 88.2 | 95.7 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| TMEM123 | 4012 | 4935.4 | 2486.8 | 2773.4 | 2033.1 | 4509.8 | 2917.5 | 7088.5 |
| TMEM125 | 96.5 | 114.9 | 105.3 | 92 | 86.8 | 88.4 | 85.8 | 109.2 |
| TMEM126/ | 3601 | 4059.2 | 3349.2 | 3110.2 | 2168.4 | 3032.4 | 3479 | 5614.6 |
| TMEM126E | 3271.8 | 3811.1 | 1873.2 | 2072.2 | 1625.7 | 2567 | 2535.9 | 2702.3 |
| TMEM127 | 169.9 | 194.8 | 130 | 163.1 | 150.9 | 171 | 156.5 | 164.7 |
| TMEM128 | 223.2 | 255.9 | 133.6 | 135 | 132.2 | 138 | 228 | 395.3 |
| TMEM129 | 103.8 | 120.2 | 109.3 | 98.4 | 85 | 93 | 87.9 | 128.9 |
| TMEM130 | 98.1 | 109.8 | 90.1 | 90.7 | 85.2 | 91.8 | 97.9 | 100.1 |
| TMEM132/ | 126.8 | 151.6 | 94.1 | 81.2 | 91.1 | 92.3 | 118.7 | 155.9 |
| TMEM134 | 299.6 | 353 | 195 | 149.8 | 134.8 | 204.7 | 243.7 | 267.8 |
| TMEM14A | 1743.2 | 2145.1 | 981 | 1057.4 | 771.9 | 1162.2 | 1219 | 1882.4 |
| TMEM14B | 3929.7 | 4647.3 | 1510 | 1202.2 | 1006.9 | 1289.2 | 4007.5 | 4913.4 |
| TMEM14C | 3614.2 | 4678.7 | 2357.8 | 2599.2 | 2039.4 | 2790.4 | 3573.4 | 4020.7 |
| TMEM15 | 441.5 | 569.3 | 364.1 | 284.1 | 218.1 | 345.8 | 428.9 | 724.4 |
| TMEM150 | 287.2 | 345.5 | 190.2 | 235.9 | 193.1 | 257 | 210.6 | 222.9 |
| TMEM151 | 79.4 | 84.2 | 95.5 | 92.8 | 88.9 | 89.5 | 83.7 | 81.3 |
| TMEM151 | 81.4 | 94.5 | 100.6 | 90.5 | 81.5 | 91.7 | 85.2 | 81.4 |
| TMEM154 | 892.7 | 1060.6 | 347.2 | 423.7 | 374.7 | 399.9 | 768.1 | 1274.2 |
| TMEM156 | 137 | 183.2 | 122.8 | 120 | 120.4 | 127.9 | 134.8 | 140.6 |
| TMEM157 | 126.6 | 146.5 | 101.6 | 96.6 | 78.6 | 100.4 | 137.1 | 173.6 |
| TMEM159 | 119.8 | 164.5 | 120 | 108.8 | 100.9 | 115.5 | 108 | 130.5 |
| TMEM164 | 154.9 | 203.1 | 112 | 99.2 | 94.7 | 103.5 | 138.3 | 166.5 |
| TMEM16A | 80.2 | 89.5 | 86.1 | 88.8 | 82.2 | 84.2 | 81.5 | 82.1 |
| TMEM16B | 87.3 | 99.5 | 95.6 | 96.2 | 82.2 | 91 | 86.4 | 82.4 |
| TMEM16C | 78.9 | 87.5 | 94.1 | 94.9 | 88.1 | 93.8 | 84.4 | 75.3 |
| TMEM16D | 116.9 | 125.4 | 105.6 | 98.6 | 104.3 | 95.5 | 116.4 | 107.9 |
| TMEM16E | 91.1 | 101 | 92.4 | 82.3 | 96.7 | 90.8 | 95.9 | 92.9 |
| TMEM16F | 658.9 | 849.6 | 449.6 | 625 | 593.1 | 767.5 | 600.9 | 886.6 |
| TMEM16G | 80.7 | 90.9 | 86.2 | 83.4 | 81.7 | 81.1 | 79.8 | 86 |
| TMEM16G | 127.4 | 181.1 | 111.5 | 113 | 106.3 | 113.3 | 130.2 | 173.7 |
| TMEM16G | 93.3 | 96.5 | 79.7 | 76.4 | 74.7 | 77.4 | 92.4 | 104.8 |
| TMEM16H | 122.4 | 125.3 | 109.9 | 110.4 | 109.3 | 130.6 | 109.7 | 128.2 |
| TMEM16J | 189.2 | 239 | 113.4 | 99.5 | 93.2 | 97.5 | 178.9 | 199.5 |
| TMEM16J | 82.4 | 77.4 | 84.1 | 88.2 | 76.1 | 82 | 78.3 | 91.8 |
| TMEM16K | 212.4 | 225.6 | 181.7 | 152.1 | 124.7 | 153 | 172.1 | 285.9 |
| TMEM17 | 3110.4 | 2757.5 | 3179.5 | 4592.6 | 4820.5 | 3399 | 2784.5 | 6612.9 |
| TMEM170 | 488.3 | 597.9 | 256.4 | 208.4 | 155.3 | 160.5 | 444 | 584.7 |
| TMEM173 | 4522.8 | 6171.1 | 3671 | 3558.7 | 3126.9 | 3761.5 | 3958.8 | 4999.6 |
| TMEM176E | 123.1 | 139.3 | 102.3 | 95.7 | 99.5 | 90.8 | 118 | 143.6 |
| TMEM178 | 82.4 | 94.1 | 93.3 | 87.2 | 79.3 | 85.9 | 82 | 96.5 |
| TMEM18 | 252.1 | 290.9 | 193.1 | 211.3 | 168.5 | 229 | 192.4 | 388 |
| TMEM183E | 5408 | 6234.2 | 3442.5 | 3031.2 | 2460 | 4225.7 | 4878.6 | 6723.4 |
| TMEM185/ | 280.8 | 379.2 | 280.2 | 264.8 | 226 | 285.9 | 262.4 | 516.7 |
| TMEM185E | 701 | 1040 | 424.4 | 343.7 | 233.7 | 394.5 | 559.4 | 792.3 |
| TMEM186 | 197.2 | 250.1 | 118.8 | 115.2 | 109.5 | 114.5 | 189.6 | 202.1 |
| TMEM19 | 113.9 | 146.7 | 94.4 | 84.5 | 76.1 | 88.3 | 109.3 | 144.6 |
| TMEM2 | 112.8 | 135 | 120.6 | 109.5 | 106.1 | 113.8 | 152.4 | 205 |
| TMEM20 | 194.8 | 209.8 | 142.3 | 108.9 | 99.1 | 117.5 | 160.5 | 238.5 |
| TMEM22 | 109.5 | 129.5 | 114.3 | 111.6 | 94.8 | 105.8 | 132.5 | 198.7 |
| TMEM23 | 83.3 | 102.7 | 93.1 | 97.4 | 90.2 | 100.6 | 93.7 | 97.4 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| TMEM24 | 108.3 | 136 | 134.4 | 124 | 108.6 | 126 | 115 | 162 |
| TMEM25 | 93 | 102.5 | 93.7 | 88.7 | 80.9 | 94.5 | 87.5 | 90 |
| TMEM26 | 100.6 | 119.5 | 100.1 | 86.4 | 81.9 | 86.8 | 104.1 | 107.5 |
| TMEM27 | 106.2 | 119.5 | 90.2 | 103.4 | 96.4 | 96.8 | 94.4 | 109.6 |
| TMEM28 | 106 | 144.8 | 102.9 | 92.2 | 87.2 | 91.6 | 105.3 | 118.5 |
| TMEM29 | 320.2 | 302.6 | 397.3 | 357.3 | 295.2 | 490.9 | 219.8 | 360.7 |
| TMEM30A | 764.9 | 1058.6 | 502.2 | 1075.6 | 830.7 | 1337.8 | 727.3 | 923.5 |
| TMEM30B | 94.1 | 105.5 | 88 | 89.7 | 80.1 | 81.1 | 87.7 | 84.1 |
| TMEM31 | 181.1 | 237.2 | 160.4 | 119.3 | 107.8 | 117.2 | 170.4 | 190.5 |
| TMEM32 | 1694 | 2175.4 | 1596.5 | 2150.7 | 1360.3 | 2129 | 1486.5 | 2993.9 |
| TMEM34 | 146.3 | 178.8 | 117.5 | 102.1 | 102 | 106.1 | 147 | 187.2 |
| TMEM35 | 96 | 106.9 | 125.1 | 105.8 | 107 | 118.2 | 99.4 | 105.8 |
| TMEM37 | 110 | 123.9 | 120.1 | 104.9 | 106.1 | 110.7 | 122.1 | 137.7 |
| TMEM38A | 103.2 | 142.7 | 94.5 | 81.7 | 86.4 | 86.8 | 95.5 | 128.5 |
| TMEM38B | 89.5 | 107.6 | 100.1 | 88.9 | 87.4 | 95.3 | 105.8 | 117 |
| TMEM39A | 272.6 | 337 | 208.6 | 191.8 | 164.2 | 267.2 | 246.8 | 382.1 |
| TMEM39B | 424.3 | 519.7 | 475.7 | 522.4 | 416.4 | 598.1 | 385 | 976.1 |
| TMEM4 | 1674 | 2115.5 | 712.4 | 647.5 | 576.1 | 845 | 1440.6 | 1793.2 |
| TMEM40 | 84.9 | 83.1 | 90 | 97.2 | 96 | 95.3 | 85 | 84.9 |
| TMEM41A | 424.1 | 593.2 | 238.1 | 189.1 | 187.1 | 219.4 | 400.3 | 458.9 |
| TMEM41B | 1057.9 | 1364.9 | 516.6 | 577.2 | 503.9 | 661 | 968.8 | 1505.1 |
| TMEM42 | 659.6 | 793.9 | 542.1 | 469.8 | 419.4 | 558.8 | 479.8 | 467.6 |
| TMEM43 | 1578.9 | 1979.8 | 1289.1 | 1872.1 | 1287.8 | 2324.1 | 1296.7 | 1617.8 |
| TMEM44 | 273.6 | 325.7 | 141.3 | 113.6 | 118.4 | 130.7 | 272.6 | 198.6 |
| TMEM44 | 197.6 | 245.5 | 108.9 | 98.7 | 92.5 | 102.3 | 177.7 | 169.1 |
| TMEM45A | 290.8 | 337.5 | 159.6 | 294.9 | 270.6 | 420.2 | 217.2 | 314.3 |
| TMEM45B | 133.3 | 158.1 | 86.6 | 95.3 | 88.7 | 94.8 | 129 | 143.4 |
| TMEM46 | 80.6 | 86.6 | 99.6 | 87.5 | 79.5 | 84.1 | 81.5 | 84.5 |
| TMEM47 | 108.8 | 117.3 | 116.3 | 122.5 | 108.4 | 111.4 | 110 | 117 |
| TMEM48 | 1132.6 | 1454.9 | 685.4 | 559.3 | 427.6 | 689.2 | 698.2 | 1351.1 |
| TMEM49 | 1627.2 | 2059.2 | 1227.4 | 1511.5 | 1217.5 | 1705.2 | 1455.6 | 1762.4 |
| TMEM5 | 2145.8 | 2317.4 | 1408.3 | 944.6 | 642.1 | 961.5 | 1748 | 2326.8 |
| TMEM50A | 188.1 | 245.6 | 135 | 152.9 | 128.3 | 180.9 | 193.1 | 314.2 |
| TMEM50B | 1706 | 2129.6 | 1084.8 | 1017.3 | 691.7 | 1196.6 | 1288.7 | 1726.4 |
| TMEM51 | 499.7 | 706.8 | 415.2 | 498.5 | 498.7 | 633.5 | 586.5 | 866.9 |
| TMEM52 | 102.2 | 101.5 | 110.4 | 99.7 | 95.6 | 92.5 | 92.2 | 106.1 |
| TMEM53 | 145.9 | 185.9 | 109.8 | 113.2 | 103.5 | 105.9 | 143.1 | 123.8 |
| TMEM54 | 265.1 | 309.9 | 293.4 | 247.6 | 186.8 | 275.8 | 242.8 | 388 |
| TMEM55A | 470.4 | 553.1 | 320 | 363.1 | 288.5 | 423 | 480.2 | 1060.5 |
| TMEM55B | 556.6 | 688.1 | 466.4 | 322.1 | 341.4 | 425.9 | 474.3 | 707.7 |
| TMEM56 | 90.6 | 112.1 | 85.4 | 85.6 | 87.1 | 78.8 | 94.6 | 104 |
| TMEM57 | 198.9 | 267.8 | 176.2 | 168.7 | 152.9 | 201.2 | 210.5 | 302.2 |
| TMEM58 | 140.4 | 166.9 | 108.6 | 92.4 | 87.2 | 89.2 | 141.8 | 143.8 |
| TMEM59 | 5686.7 | 6697.2 | 4428.7 | 4748.9 | 4325.1 | 6271.5 | 5471.7 | 7594.8 |
| TMEM60 | 2345.4 | 3147.6 | 1630.1 | 2261.1 | 2010.7 | 2315.4 | 2120.7 | 2529.3 |
| TMEM61 | 85.9 | 99.5 | 96.9 | 85.2 | 86.4 | 92.4 | 101.7 | 100.1 |
| TMEM62 | 357.2 | 431 | 282.2 | 291 | 241.6 | 415.5 | 274.5 | 417.4 |
| TMEM63A | 127.7 | 140.6 | 150.3 | 170.3 | 154.7 | 200.2 | 115.8 | 142.4 |
| TMEM63B | 148.9 | 173.9 | 96.6 | 85.1 | 84.2 | 102.4 | 142.1 | 172.7 |
| TMEM63C | 126.8 | 123.6 | 87.8 | 93.7 | 89.5 | 98.7 | 116.9 | 123.6 |

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|---------|--------|---------|--------|--------|--------|--------|--------|---------|
| TMEM64 | 227.6 | 288.3 | 154 | 145.7 | 122.1 | 148.9 | 210.1 | 374.6 |
| TMEM65 | 83.8 | 97.2 | 114.6 | 100.6 | 105.8 | 107.9 | 84.9 | 87.5 |
| TMEM66 | 8356.1 | 10080.8 | 4067.9 | 3232.7 | 2808.3 | 4750.7 | 9045.6 | 12914.7 |
| TMEM67 | 99.9 | 113.6 | 101 | 87.6 | 84.8 | 107.5 | 90.2 | 108.9 |
| TMEM68 | 149.6 | 181.4 | 118.2 | 94.4 | 94.2 | 104.7 | 149.4 | 141.4 |
| TMEM69 | 1517.5 | 2203.8 | 1077.5 | 1078.1 | 909.6 | 1094.5 | 1122.3 | 1197.3 |
| TMEM70 | 282.7 | 342 | 139 | 108.8 | 99.1 | 130 | 246.5 | 470.1 |
| TMEM70 | 526.2 | 722.1 | 356.8 | 254.2 | 178.8 | 245.7 | 471 | 719.4 |
| TMEM71 | 153.8 | 182.4 | 125.5 | 125.9 | 119.1 | 150.9 | 134.4 | 156 |
| TMEM74 | 86.1 | 93.1 | 99.3 | 100.6 | 92.9 | 93.8 | 81.1 | 92.4 |
| TMEM75 | 84.2 | 89 | 88 | 85 | 79.7 | 91.5 | 76.2 | 88.6 |
| TMEM77 | 1175.8 | 1442 | 767.7 | 381.4 | 287.3 | 527.1 | 828.2 | 1690.2 |
| TMEM79 | 562.5 | 654.9 | 430.9 | 285 | 279.8 | 326.2 | 474.6 | 527.8 |
| TMEM8 | 234 | 366.8 | 309.5 | 335 | 258.3 | 450.3 | 251.4 | 482.6 |
| TMEM80 | 255.5 | 301.5 | 167.1 | 221.8 | 173.5 | 215.3 | 204 | 281.3 |
| TMEM80 | 325.7 | 379.3 | 167.4 | 149.4 | 152.3 | 192.9 | 281.7 | 332.1 |
| TMEM80 | 98.1 | 113.3 | 94.3 | 94.6 | 79.9 | 79.3 | 107.4 | 115.1 |
| TMEM81 | 118.6 | 144 | 90.3 | 81.5 | 82.1 | 79.2 | 114.8 | 133.2 |
| TMEM83 | 121.2 | 135 | 94.2 | 83.2 | 79.4 | 78.5 | 117.5 | 138.6 |
| TMEM85 | 4245.4 | 5413.7 | 3234.5 | 3397.9 | 2642.9 | 4172.8 | 3926 | 5738.5 |
| TMEM86A | 100.8 | 123.9 | 99.5 | 96.9 | 91.3 | 107.2 | 125.5 | 124.9 |
| TMEM86B | 255.9 | 233.9 | 370 | 284.2 | 273 | 345.8 | 183.6 | 286.2 |
| TMEM87A | 4570.6 | 5645.8 | 3249.2 | 3652.8 | 2723.4 | 3562.1 | 4189.5 | 4755.9 |
| TMEM87B | 143.7 | 161.6 | 105.7 | 112.2 | 105.9 | 114 | 130.8 | 194.2 |
| TMEM88 | 100.2 | 107.4 | 90 | 93.2 | 83.3 | 90.8 | 88.4 | 100.5 |
| TMEM89 | 91.7 | 97.1 | 120.1 | 95.8 | 99.8 | 93.7 | 85.9 | 95.4 |
| TMEM9 | 468.7 | 572.6 | 364 | 300.7 | 293 | 405.2 | 428 | 606.4 |
| TMEM91 | 347.5 | 394.4 | 183.7 | 222.2 | 238.1 | 192 | 265.2 | 267.7 |
| TMEM92 | 84.4 | 91.8 | 101.1 | 100.1 | 89.1 | 96.8 | 92.4 | 81 |
| TMEM93 | 605.8 | 776.9 | 357.7 | 364.6 | 278.6 | 378.4 | 580.5 | 646 |
| TMEM93 | 143.4 | 195.5 | 119.5 | 115.5 | 105.2 | 109.7 | 147.3 | 154.8 |
| TMEM93 | 1902.3 | 2491.5 | 755.8 | 616.1 | 588.2 | 690.2 | 1931.1 | 1799.8 |
| TMEM95 | 103.8 | 102.2 | 88.4 | 86.8 | 75.9 | 81 | 97.4 | 107 |
| TMEM97 | 3728.3 | 4865.1 | 2017.6 | 2095.8 | 1452.1 | 2073.2 | 2805 | 2994.2 |
| TMEM98 | 95.2 | 120.3 | 98 | 90.7 | 78.7 | 85.5 | 102.9 | 124.5 |
| TMEM98 | 87.8 | 89.8 | 101 | 91.8 | 90 | 92.6 | 84.9 | 105.4 |
| TMEM99 | 1212.3 | 1549.4 | 841.6 | 628.7 | 493.8 | 666.2 | 1246.2 | 1745.1 |
| TMEM9B | 1435.6 | 1820.7 | 987.8 | 1033.4 | 659.2 | 1133.7 | 1194.4 | 1645.8 |
| TMEPAI | 74.9 | 95.4 | 89.6 | 81.8 | 89.1 | 85.3 | 77.1 | 82 |
| TMEPAI | 88.2 | 110.4 | 83 | 89.9 | 73.7 | 80.6 | 98.3 | 103 |
| TMEPAI | 109.7 | 120.6 | 111.3 | 102.2 | 96.2 | 103.6 | 107.4 | 122.1 |
| TMEPAI | 94 | 100.3 | 96.8 | 90 | 84.5 | 88 | 91.6 | 104.7 |
| TMF1 | 409.5 | 517.4 | 266.7 | 306.2 | 281.1 | 600.3 | 353.3 | 467.4 |
| TMIE | 94.7 | 100.7 | 94.8 | 88.7 | 95.5 | 97.5 | 89.1 | 110.6 |
| TMIGD | 91.7 | 104.8 | 108.2 | 99.3 | 96.8 | 102.1 | 89.1 | 90.9 |
| TMIGD2 | 73.3 | 91.2 | 93.9 | 85.7 | 89.3 | 78.3 | 87.8 | 83.2 |
| TMLHE | 203.1 | 268.9 | 138.2 | 130.2 | 139.8 | 154.4 | 187.6 | 195.8 |
| TMLHE | 94.9 | 131.2 | 112.5 | 108.5 | 108.5 | 114.8 | 93.1 | 110 |
| TMOD1 | 402.8 | 537.9 | 274.5 | 327.8 | 305.2 | 370.1 | 312.8 | 314 |
| TMOD2 | 76.2 | 83 | 84.5 | 79.9 | 76.8 | 79.8 | 78.1 | 75.7 |

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|-----------|---------|---------|--------|--------|--------|--------|---------|---------|
| TMOD3 | 222.4 | 305.6 | 145 | 157.3 | 122.5 | 158.9 | 198.6 | 227.9 |
| TMOD4 | 118.4 | 125.6 | 120.3 | 116.7 | 104.8 | 119 | 102.7 | 113.7 |
| TMPIT | 316.8 | 438.9 | 146.5 | 147.7 | 162.9 | 183.3 | 334.2 | 400.7 |
| TMPO | 263.4 | 324 | 120.6 | 108.6 | 102.8 | 95 | 246.6 | 291 |
| TMPO | 545.6 | 802.4 | 327.4 | 220.8 | 174.3 | 313.6 | 335 | 499.7 |
| TMPO | 91.4 | 91 | 89.1 | 89.5 | 82.8 | 87.4 | 91.1 | 102.6 |
| TMPRSS11J | 78.7 | 84.3 | 98.4 | 87.3 | 88.9 | 92 | 83 | 89.6 |
| TMPRSS11I | 98.6 | 100 | 96.5 | 88.4 | 91.2 | 96.2 | 90.4 | 100 |
| TMPRSS11I | 97.8 | 100.1 | 93.8 | 86.5 | 81.6 | 101.3 | 96.3 | 85.4 |
| TMPRSS12 | 74.4 | 85.5 | 103.2 | 83.6 | 84.1 | 92.8 | 78.1 | 80.2 |
| TMPRSS13 | 105.8 | 135.5 | 107 | 101.1 | 107.4 | 91.5 | 111.8 | 113.1 |
| TMPRSS2 | 80.8 | 87.3 | 83.7 | 87.4 | 84 | 90.2 | 84.8 | 95.6 |
| TMPRSS3 | 88.2 | 93.2 | 85.1 | 80.5 | 78.4 | 85.9 | 88.6 | 91.2 |
| TMPRSS3 | 84.4 | 112.8 | 83.2 | 86.6 | 75.6 | 81.3 | 98.6 | 117.7 |
| TMPRSS3 | 102.7 | 118.7 | 105.1 | 98.6 | 95.6 | 95.2 | 97.7 | 106.3 |
| TMPRSS3 | 112.6 | 124.8 | 88.7 | 89.3 | 91.4 | 95.9 | 109.7 | 130.8 |
| TMPRSS3 | 101.9 | 118.1 | 78.5 | 70.1 | 75.8 | 73.2 | 90.1 | 103.4 |
| TMPRSS4 | 132.8 | 175.5 | 110 | 100.4 | 88 | 103.4 | 134.3 | 149.2 |
| TMPRSS4 | 100.3 | 113.3 | 77.4 | 85.2 | 78.4 | 83.4 | 100.2 | 103 |
| TMPRSS5 | 78.5 | 86.3 | 103.5 | 93.5 | 92 | 92.1 | 82.8 | 88.4 |
| TMPRSS6 | 83.6 | 95.3 | 92.8 | 82.3 | 82.6 | 80 | 92.2 | 96.8 |
| TMPRSS7 | 130.4 | 157.8 | 106.5 | 93.9 | 89.7 | 100 | 103.8 | 114.1 |
| TMPRSS7 | 83.9 | 98.2 | 96.5 | 90.2 | 86.5 | 86.7 | 78.1 | 86.9 |
| TMPRSS9 | 86.7 | 100.6 | 88.4 | 85.3 | 86.3 | 77.2 | 89.8 | 87.7 |
| TMSB10 | 16066.8 | 18282.5 | 8406.5 | 9050.3 | 6531.1 | 9237.5 | 13426.1 | 16998.6 |
| TMSB4X | 147.8 | 195 | 105.8 | 105.4 | 91.5 | 104.4 | 151.9 | 174.1 |
| TMSB4Y | 116.6 | 127.2 | 129.6 | 138.7 | 114.6 | 148.9 | 97.7 | 120.4 |
| TMSL8 | 1448.9 | 1788.1 | 1166.9 | 618.2 | 487.2 | 587.1 | 1377.9 | 1670.6 |
| TMTC2 | 115.1 | 130.8 | 109.9 | 94.3 | 98.8 | 104.1 | 107 | 110 |
| TMTC3 | 223.3 | 253.8 | 132.9 | 138.7 | 116.7 | 124.5 | 169.8 | 253.3 |
| TMTC4 | 362.9 | 524.8 | 235.4 | 254 | 192.3 | 236.6 | 280.2 | 373.1 |
| TMTC4 | 164.4 | 185 | 107.4 | 112.6 | 95.2 | 107.6 | 121.9 | 163 |
| TMTC4 | 494.2 | 595.9 | 315.2 | 343.2 | 231.7 | 331.9 | 433.6 | 816.4 |
| TMUB2 | 274.5 | 371 | 227.8 | 228.2 | 229.3 | 305.5 | 284.1 | 474.9 |
| TMUB2 | 587.3 | 671.3 | 244.1 | 337.3 | 345.3 | 329.6 | 498.7 | 273.4 |
| TNC | 301.9 | 327.2 | 159.5 | 124.7 | 135 | 136.1 | 266.6 | 299.4 |
| TNF | 491.5 | 580.8 | 358.5 | 263.4 | 258.5 | 262.8 | 949.7 | 1465.8 |
| TNFAIP1 | 203 | 278.7 | 173.9 | 161 | 151.3 | 235.2 | 178.8 | 348.6 |
| TNFAIP2 | 147.1 | 168.7 | 209.8 | 165.9 | 176.7 | 174.9 | 202 | 296.8 |
| TNFAIP3 | 190.5 | 263.7 | 211.8 | 160.1 | 257.7 | 209.9 | 180 | 299.5 |
| TNFAIP6 | 95.4 | 109.7 | 105.7 | 106.1 | 99 | 96.7 | 97.5 | 100.1 |
| TNFAIP8 | 1346.7 | 1877.3 | 526.6 | 532.7 | 413 | 635.1 | 683.8 | 743.6 |
| TNFAIP8 | 105.5 | 136 | 96 | 91.2 | 79.9 | 94 | 111.2 | 139.1 |
| TNFAIP8L1 | 322 | 415 | 174.6 | 166.7 | 138.8 | 102.1 | 353.8 | 382.2 |
| TNFAIP8L2 | 534.9 | 698.2 | 325 | 262.6 | 203.1 | 332.4 | 430.6 | 553.1 |
| TNFAIP8L3 | 160.6 | 187.2 | 120.2 | 106.9 | 92.9 | 102.5 | 142.7 | 171.7 |
| TNFRSF10A | 290.2 | 414.3 | 257.4 | 226.8 | 195.3 | 219.3 | 298.7 | 493.3 |
| TNFRSF10B | 111 | 123.7 | 117.9 | 84.4 | 94.8 | 89.3 | 105 | 109.1 |
| TNFRSF10B | 97.3 | 108.5 | 102.9 | 90.7 | 86.1 | 99.1 | 98.3 | 104.6 |
| TNFRSF10B | 785.6 | 1016 | 443.5 | 293.1 | 232 | 305.3 | 784.5 | 1130.5 |

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|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| TNFRSF10C | 123.6 | 135.5 | 128.5 | 136.3 | 119.3 | 116.3 | 126.8 | 133.9 |
| TNFRSF10C | 111 | 133.1 | 97.1 | 70.7 | 81.7 | 85.7 | 102.6 | 110.9 |
| TNFRSF11A | 85.8 | 96.3 | 95.3 | 83 | 80.2 | 76.1 | 87.2 | 100 |
| TNFRSF11B | 90.5 | 110.5 | 90.2 | 90.2 | 77.2 | 82.1 | 89.2 | 101.7 |
| TNFRSF12A | 107 | 122.2 | 98.1 | 91.8 | 84.1 | 92.3 | 152.4 | 204.8 |
| TNFRSF13B | 81 | 96.2 | 93.8 | 89.8 | 84.2 | 89.1 | 88.8 | 87.3 |
| TNFRSF13C | 148.6 | 186.3 | 114.3 | 99.4 | 99.7 | 124.7 | 148.2 | 185.8 |
| TNFRSF14 | 355.1 | 391.8 | 325.2 | 781 | 729.8 | 869.2 | 190.2 | 166.4 |
| TNFRSF17 | 98 | 98.3 | 99.6 | 81.9 | 80.6 | 90.6 | 87.3 | 94.8 |
| TNFRSF18 | 94.9 | 105.6 | 96.1 | 90.9 | 82.6 | 86.2 | 96.9 | 113.7 |
| TNFRSF18 | 91.2 | 83.3 | 75.6 | 83.9 | 77.8 | 78.7 | 85.4 | 98.3 |
| TNFRSF19 | 83.7 | 93.9 | 97.4 | 88.9 | 76.6 | 88.8 | 85.3 | 98.6 |
| TNFRSF19 | 133.6 | 154.1 | 106.5 | 97.5 | 112.1 | 109.5 | 130.4 | 131.6 |
| TNFRSF19 | 77 | 88.9 | 73.9 | 76.2 | 79.9 | 76.9 | 89.8 | 84.1 |
| TNFRSF19L | 75.4 | 79.8 | 83.5 | 89.8 | 81 | 84.7 | 75.3 | 78.8 |
| TNFRSF19L | 114.8 | 145.3 | 91.8 | 81.1 | 87.6 | 97.2 | 128.1 | 140.7 |
| TNFRSF19L | 102.9 | 102 | 89.6 | 87.9 | 72.6 | 82.7 | 89.9 | 102.8 |
| TNFRSF1A | 617.7 | 744.9 | 636.8 | 597.8 | 528.8 | 729.3 | 627.6 | 1214.7 |
| TNFRSF1B | 333.9 | 391.5 | 132.6 | 161 | 147.3 | 154.6 | 257.5 | 214 |
| TNFRSF21 | 789.5 | 1117.5 | 943.7 | 1348.5 | 767.7 | 1649.5 | 687.7 | 1032.4 |
| TNFRSF25 | 105.9 | 128.1 | 90 | 87.6 | 81.9 | 90.6 | 109 | 110.3 |
| TNFRSF25 | 101.7 | 96.3 | 104.2 | 112.3 | 108.9 | 109.2 | 89.3 | 117 |
| TNFRSF4 | 82.2 | 87.9 | 98.7 | 102.1 | 86.6 | 89.4 | 79.3 | 91.3 |
| TNFRSF6B | 89.3 | 101.6 | 103.2 | 92.7 | 97.2 | 105 | 96.8 | 98.1 |
| TNFRSF6B | 122.9 | 123.8 | 152.7 | 151.7 | 154.9 | 197.9 | 94.7 | 123.5 |
| TNFRSF7 | 128.4 | 155.5 | 91.2 | 80.8 | 82.1 | 87.5 | 113.9 | 140.2 |
| TNFRSF8 | 81.9 | 84.2 | 93.7 | 89.8 | 88.8 | 87.7 | 85.8 | 84.9 |
| TNFRSF8 | 107.9 | 134 | 97.4 | 88.9 | 77.9 | 99.3 | 109 | 131.6 |
| TNFRSF9 | 111.6 | 158.7 | 86.5 | 100.3 | 103.8 | 104.7 | 101.5 | 125.3 |
| TNFSF10 | 439.5 | 603.3 | 326.4 | 261.4 | 224.4 | 369.8 | 346.9 | 422.7 |
| TNFSF11 | 110 | 134.7 | 92.9 | 94.4 | 91.6 | 96.4 | 113.6 | 124.6 |
| TNFSF11 | 146.5 | 151.6 | 101.1 | 89.7 | 94.3 | 87.3 | 117.2 | 148 |
| TNFSF11 | 76.2 | 79.1 | 91.3 | 82.6 | 79.9 | 83.9 | 76.1 | 73.8 |
| TNFSF12 | 94.6 | 98.4 | 92 | 80.9 | 89.1 | 86.7 | 87.4 | 98.7 |
| TNFSF13 | 93.4 | 113 | 119.1 | 102 | 91.1 | 99.2 | 87 | 96.9 |
| TNFSF13 | 84.6 | 99.9 | 101 | 103.7 | 88.3 | 96.4 | 86.6 | 98.2 |
| TNFSF13B | 1012.2 | 1296.3 | 286.3 | 412.4 | 431.6 | 526 | 906.7 | 1073.1 |
| TNFSF14 | 396.2 | 505 | 249.2 | 361.9 | 326.2 | 385.3 | 514.9 | 681.7 |
| TNFSF14 | 192.7 | 272.7 | 159.1 | 151.8 | 140.8 | 136.7 | 219.7 | 239.4 |
| TNFSF14 | 723.8 | 890.9 | 248.6 | 374.1 | 423.7 | 337.9 | 754.2 | 786 |
| TNFSF15 | 271.9 | 250 | 199.3 | 272.1 | 272.3 | 231.5 | 270.5 | 419.2 |
| TNFSF18 | 100.8 | 112.7 | 99.5 | 88.6 | 81.2 | 93.4 | 86.7 | 119.9 |
| TNFSF4 | 103.4 | 111.4 | 104.4 | 103.2 | 98.7 | 99.1 | 95 | 123.3 |
| TNFSF5IP1 | 5405.5 | 6976.1 | 4840.6 | 3678.4 | 2707.4 | 4494.3 | 3617.3 | 8347.5 |
| TNFSF7 | 2450.4 | 3143.8 | 1766.7 | 1515.1 | 1346.7 | 2431 | 1967.3 | 1937.4 |
| TNFSF8 | 111.4 | 121.4 | 98.4 | 95.4 | 92.7 | 90.5 | 106.1 | 125.2 |
| TNFSF9 | 205.8 | 278.7 | 168.2 | 140.1 | 120.9 | 174.5 | 253.2 | 390.5 |
| TNIK | 87.1 | 111 | 99.5 | 104 | 96.9 | 100.7 | 82.4 | 94.6 |
| TNIP1 | 431.1 | 543 | 343.5 | 240.1 | 206.6 | 303.2 | 442.8 | 572.4 |
| TNIP2 | 189.5 | 228.9 | 140.5 | 107.2 | 107.3 | 131.3 | 165 | 200 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| TNIP3 | 87.6 | 94.3 | 94 | 98.3 | 97.6 | 92.9 | 88.9 | 96.7 |
| TNK1 | 82.4 | 84.3 | 80.5 | 77.3 | 85.2 | 76.7 | 72.2 | 86.3 |
| TNK2 | 412.5 | 466.3 | 387.5 | 476 | 516.9 | 542 | 389.3 | 392.7 |
| TNK2 | 102.1 | 124.4 | 99.5 | 107.5 | 87.9 | 91.6 | 102.7 | 126.9 |
| TNK2 | 100.3 | 112.7 | 97.8 | 95.3 | 84.4 | 100 | 100.8 | 101.4 |
| TNKS | 114.9 | 128 | 116.4 | 94.1 | 105.3 | 109.7 | 118.3 | 118 |
| TNKS1BP1 | 133.7 | 174.3 | 136.3 | 129 | 117.7 | 159.8 | 123.4 | 166.9 |
| TNKS2 | 116.7 | 128.4 | 78.6 | 86 | 79 | 91.4 | 102.6 | 138.2 |
| TNMD | 112 | 115 | 101.2 | 92.9 | 96.3 | 99.3 | 105.8 | 104.1 |
| TNN | 102.9 | 124.1 | 107.2 | 102.1 | 84.8 | 111.9 | 102.1 | 114.3 |
| TNNC1 | 102.8 | 127.6 | 92.6 | 96 | 76.5 | 94.3 | 103.8 | 118.3 |
| TNNC2 | 95.1 | 103.9 | 95.3 | 81.3 | 88.8 | 80.8 | 86.9 | 101.9 |
| TNNI1 | 90 | 95.5 | 80.8 | 79.3 | 75.3 | 74.9 | 92.3 | 95.5 |
| TNNI2 | 90.8 | 102.9 | 96 | 94.6 | 102.2 | 118.6 | 94.5 | 87.4 |
| TNNI3 | 118 | 151.7 | 94.7 | 92.1 | 97.3 | 107.3 | 113.4 | 136.8 |
| TNNI3K | 94.6 | 122.1 | 91 | 96.9 | 90.8 | 96.4 | 85.5 | 103.7 |
| TNNT1 | 354.8 | 421.7 | 156.5 | 132.7 | 143.2 | 190.9 | 303.9 | 403.4 |
| TNNT2 | 171.3 | 215 | 109.5 | 110.4 | 100.2 | 112.8 | 157.2 | 194.1 |
| TNNT2 | 118.8 | 140.6 | 101.7 | 91.4 | 90.5 | 103.1 | 130.2 | 140.6 |
| TNNT3 | 112.1 | 154.1 | 87.4 | 77 | 86.9 | 81.8 | 100.3 | 129 |
| TNNT3 | 97 | 102.5 | 91.9 | 76.1 | 88.5 | 82.6 | 92.5 | 93.2 |
| TNP1 | 131.8 | 161.7 | 115.2 | 103.3 | 94.9 | 101.6 | 129.3 | 124.1 |
| TNP2 | 92.5 | 107.8 | 93.3 | 88.6 | 82.7 | 88.9 | 85 | 93.4 |
| TNPO1 | 567.7 | 740.6 | 187.8 | 207.5 | 185.2 | 135.4 | 352.8 | 518.7 |
| TNPO1 | 184.4 | 231.5 | 101.7 | 114.6 | 99.9 | 97.1 | 164.6 | 224.9 |
| TNPO1 | 1649.6 | 2308.4 | 788 | 1421.5 | 1108.8 | 952.4 | 1862.9 | 2567.5 |
| TNPO2 | 1962 | 2249.6 | 1422 | 847.7 | 815.6 | 869.9 | 1720.3 | 2329 |
| TNPO3 | 751.3 | 1035.5 | 796 | 1150.9 | 993.7 | 1565.8 | 644.7 | 949.3 |
| TNR | 105.1 | 108.8 | 103.6 | 92 | 88.9 | 92 | 112.5 | 103.2 |
| TNRC15 | 353.3 | 569.6 | 387 | 461.8 | 420.9 | 708.8 | 286.6 | 547.9 |
| TNRC4 | 76.9 | 94.8 | 83.2 | 88.1 | 92.9 | 85.8 | 85.6 | 86.5 |
| TNRC5 | 1650.4 | 2172.4 | 1103.1 | 1058.9 | 904.9 | 745 | 1531.3 | 2996.4 |
| TNRC5 | 917.9 | 1294.7 | 728.2 | 634.5 | 513.6 | 737.6 | 944.6 | 1373.7 |
| TNRC6A | 149.8 | 182.6 | 105.6 | 102 | 95.8 | 100.2 | 148 | 163.7 |
| TNRC6A | 196.7 | 239.2 | 219.7 | 272 | 270.4 | 424.5 | 214.7 | 359.5 |
| TNRC6A | 107.5 | 118.2 | 99.9 | 98.7 | 95.3 | 90 | 110.6 | 117.4 |
| TNRC6B | 495.2 | 800.4 | 396.9 | 726.1 | 686.9 | 428.9 | 524 | 636.5 |
| TNRC6B | 124 | 122.8 | 95 | 92.1 | 84.7 | 84.3 | 103.8 | 139.3 |
| TNRC6B | 94.2 | 95.4 | 92.1 | 92.4 | 91.1 | 92.3 | 92.8 | 101.1 |
| TNRC6C | 73.4 | 77.4 | 94.6 | 88.3 | 81.5 | 79.5 | 70.8 | 73.7 |
| TNRC9 | 79.8 | 87.8 | 75.2 | 87.6 | 75.6 | 87.2 | 84.5 | 93.3 |
| TNS1 | 124.1 | 147.3 | 140.1 | 125.3 | 101.3 | 110.3 | 127.7 | 194.3 |
| TNS3 | 1396.1 | 1929.7 | 1518.8 | 2715.4 | 2026.9 | 2958.5 | 1106.2 | 1288.2 |
| TNS4 | 88.9 | 95.9 | 95 | 89.3 | 89.3 | 92.2 | 90.3 | 93 |
| TNT | 93.1 | 98.4 | 92.8 | 86.8 | 75.9 | 83.7 | 87 | 90 |
| TNXA | 109.7 | 135.1 | 94.1 | 86.6 | 79.3 | 84.9 | 110.7 | 118 |
| TNXB | 78.8 | 96.5 | 116.8 | 90.7 | 89.3 | 98.3 | 82.5 | 84.5 |
| TNXB | 95 | 104.2 | 101.3 | 95.5 | 81.7 | 81.7 | 99.3 | 105.6 |
| TOB1 | 541.7 | 764 | 348.9 | 462.7 | 415.6 | 438.3 | 558.8 | 774.4 |
| TOB2 | 154.6 | 217.6 | 149.6 | 126.4 | 118.2 | 128.4 | 157.5 | 222.7 |

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|----------|---------|---------|---------|---------|--------|---------|---------|---------|
| TOE1 | 298.3 | 345.8 | 173.4 | 126.1 | 115.5 | 141.1 | 226.2 | 298.6 |
| TOLLIP | 176.8 | 220.6 | 225.6 | 201 | 191.6 | 240 | 217.6 | 347.7 |
| TOM1 | 441.4 | 544.6 | 302.9 | 325.1 | 270.4 | 323.6 | 518.8 | 621.6 |
| TOM1L1 | 155.4 | 166.4 | 131.4 | 115.7 | 104.5 | 132.7 | 123.8 | 154.9 |
| TOM1L2 | 86.5 | 91.7 | 93.5 | 93.3 | 96.9 | 88.1 | 87.9 | 97.9 |
| TOM1L2 | 104 | 130.6 | 100 | 96.8 | 96.9 | 101.6 | 102.4 | 115.1 |
| TOM1L2 | 110.8 | 122.9 | 97.8 | 99.9 | 90.4 | 92.9 | 104.6 | 107.7 |
| TOMM20 | 6189.7 | 8267.9 | 4090.1 | 5038.2 | 3349 | 6366.5 | 4431.6 | 9140.3 |
| TOMM22 | 2457.4 | 3083.7 | 1046.6 | 1008.4 | 818.1 | 1091.9 | 2034.7 | 2282.1 |
| TOMM34 | 1834.8 | 2277.3 | 1118 | 770 | 660.3 | 890.9 | 1605.7 | 1609.9 |
| TOMM40 | 6812.5 | 8583.8 | 5331.3 | 2950.6 | 2228.1 | 2768.8 | 5625.2 | 6427.5 |
| TOMM40L | 593 | 822.7 | 314.8 | 241.1 | 186.8 | 361.5 | 539.4 | 986.3 |
| TOMM7 | 14234.7 | 15506.5 | 10284.4 | 12064.5 | 8925.6 | 12121.4 | 15030.1 | 18413.5 |
| TOMM70A | 2050.5 | 2553.6 | 1216.2 | 1473.4 | 1142.3 | 2239.2 | 1568.4 | 2404.3 |
| TOP1 | 178.4 | 211.6 | 126.6 | 132 | 127 | 163.3 | 161.5 | 229.8 |
| TOP1MT | 2241.4 | 2872.9 | 1727.6 | 1567 | 1361.6 | 2213.6 | 1713.2 | 2370.5 |
| TOP1MT | 782.9 | 965.2 | 599.9 | 485.5 | 412.6 | 694 | 583.7 | 731.4 |
| TOP1MT | 629.1 | 881.7 | 312.6 | 244.5 | 190 | 239.6 | 522.8 | 542.4 |
| TOP1P1 | 85.6 | 95.3 | 96.1 | 89.5 | 86.9 | 96.3 | 89.3 | 103.8 |
| TOP1P2 | 311.6 | 359.2 | 209.3 | 260.8 | 235.2 | 339.5 | 254.6 | 455.7 |
| TOP2A | 5259.9 | 5751.4 | 4764.4 | 3893.7 | 3547.3 | 6313.1 | 3823.3 | 6944.2 |
| TOP2B | 2706.5 | 3993.4 | 3049.1 | 3636.8 | 3453.6 | 6481.7 | 2464.2 | 3651.4 |
| TOP3A | 314.5 | 348.7 | 217.7 | 273.9 | 244 | 201.6 | 220.5 | 272.6 |
| TOP3B | 482.3 | 558.4 | 518.5 | 453.5 | 407.6 | 422.9 | 463.7 | 605.5 |
| TOPBP1 | 1558.2 | 1654.5 | 368.9 | 496.2 | 424.1 | 565.2 | 1298.5 | 1566.3 |
| TOPORS | 84.3 | 99.9 | 87.5 | 89.4 | 79.2 | 84.6 | 80.5 | 108.4 |
| TOR1A | 687.3 | 882.8 | 331.7 | 225.5 | 199.2 | 293.1 | 504.3 | 767.3 |
| TOR1AIP1 | 1899.2 | 2392.1 | 1115.1 | 1413.2 | 945.3 | 1892.1 | 1385.9 | 3720.8 |
| TOR1AIP2 | 214.2 | 251.8 | 149.6 | 157.1 | 136.3 | 183.9 | 186.6 | 290.1 |
| TOR1B | 351.2 | 478.6 | 264.8 | 249.5 | 232.5 | 312 | 355 | 555 |
| TOR2A | 258.3 | 343.9 | 202.5 | 161.4 | 121.9 | 130.2 | 249.9 | 357.3 |
| TOR3A | 1269.1 | 1947 | 1007.8 | 787.1 | 584.5 | 1025.2 | 1268 | 1839.5 |
| TOX | 90.6 | 110.8 | 88 | 72.1 | 78 | 78.2 | 97.1 | 98.9 |
| TP53 | 85.9 | 94 | 88.3 | 83.1 | 87.3 | 91.5 | 82.1 | 104.6 |
| TP53BP1 | 306.3 | 420 | 334.1 | 274.9 | 243 | 428 | 256.1 | 362.2 |
| TP53BP2 | 846.4 | 1145.7 | 696.3 | 898.8 | 836.4 | 1025.5 | 894.9 | 953.5 |
| TP53BP2 | 109.1 | 147 | 122 | 104.6 | 95.2 | 113.4 | 121.1 | 114.5 |
| TP53I11 | 104.5 | 129.3 | 128.7 | 117.3 | 110.3 | 137.8 | 101.8 | 112.7 |
| TP53I11 | 107.8 | 125.4 | 94.5 | 90.8 | 74.7 | 93.7 | 105.4 | 111 |
| TP53I13 | 805.3 | 1140.7 | 395.2 | 419.1 | 449.6 | 494.5 | 729.3 | 737.7 |
| TP53I3 | 155.1 | 192 | 153 | 109.3 | 110.4 | 125.6 | 148.7 | 192.2 |
| TP53I3 | 130.6 | 153.1 | 118.3 | 106.9 | 105.9 | 116.6 | 145.1 | 158.1 |
| TP53INP1 | 93.7 | 105.3 | 102.9 | 96.6 | 86.1 | 88.1 | 87.3 | 125.9 |
| TP53INP2 | 297.2 | 359.6 | 221.6 | 235.1 | 195.6 | 231.8 | 287.9 | 410.3 |
| TP53RK | 357 | 443.3 | 318.4 | 268.5 | 248.7 | 451.6 | 283.8 | 451 |
| TP53TG3 | 90.1 | 99.7 | 102.7 | 94 | 88.6 | 96.4 | 86 | 87.1 |
| TP53TG3 | 91.4 | 88.9 | 104.4 | 87.1 | 85.8 | 99.2 | 80.3 | 90.9 |
| TP73 | 84.7 | 96.9 | 92.2 | 79.4 | 87.3 | 106.6 | 88.6 | 100.3 |
| TP73L | 81.4 | 97.2 | 98 | 87.3 | 84.9 | 84.8 | 77.5 | 91.6 |
| TPARL | 372.7 | 417.5 | 172.5 | 148.3 | 158 | 188.4 | 305.3 | 426.5 |

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|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| TPCN1 | 164.8 | 198.4 | 182 | 205.3 | 186.1 | 195.1 | 136.9 | 195.9 |
| TPCN2 | 418 | 557.4 | 250.1 | 233.7 | 236 | 234 | 351.7 | 296.9 |
| TPD52 | 67.7 | 85.8 | 76 | 74 | 78.9 | 85.6 | 80 | 93.8 |
| TPD52L1 | 106.9 | 101.4 | 119 | 100.1 | 98.8 | 111.8 | 111.8 | 120.6 |
| TPD52L1 | 95.9 | 108.2 | 100.1 | 101 | 88.5 | 76 | 90.8 | 106.7 |
| TPD52L1 | 87.5 | 104.3 | 95 | 84.4 | 85 | 94.6 | 101 | 113.5 |
| TPD52L2 | 437.1 | 565.5 | 277 | 301.6 | 256.1 | 370 | 408.4 | 580.9 |
| TPD52L2 | 2945.7 | 3879.9 | 1740.6 | 2122.3 | 1760.6 | 2243.8 | 2913.4 | 2449 |
| TPD52L3 | 97.9 | 123.3 | 106 | 90.7 | 87.1 | 94 | 106.5 | 126.7 |
| TPD52L3 | 78.8 | 92.2 | 87.8 | 89 | 83.6 | 84 | 78.4 | 79.1 |
| TPD52L3 | 89.7 | 90.4 | 113.5 | 110.9 | 106.6 | 102 | 93.8 | 94 |
| TPH1 | 129.9 | 142.3 | 97.1 | 96.9 | 95 | 100.5 | 110.2 | 122.2 |
| TPH2 | 89.2 | 104.5 | 102.3 | 92.9 | 90.2 | 98.5 | 90.5 | 99.7 |
| TPI1 | 7014.9 | 8813.9 | 5121 | 4571.5 | 3367.2 | 5646.3 | 6664.6 | 11438.7 |
| TPK1 | 963.2 | 1232.1 | 778.6 | 692.3 | 457.6 | 768.8 | 714.6 | 1462 |
| TPK1 | 231.4 | 257.3 | 121.9 | 89.1 | 91.8 | 120.6 | 190.1 | 252 |
| TPM1 | 276.8 | 327.8 | 166.8 | 299.8 | 252.3 | 431.8 | 252.5 | 326 |
| TPM1 | 86.3 | 108.4 | 95.6 | 126.5 | 113.2 | 121.4 | 102.8 | 99.7 |
| TPM1 | 339.1 | 414.9 | 220.1 | 510 | 420.9 | 842.9 | 300.3 | 395.2 |
| TPM2 | 1390.9 | 1131.3 | 826.5 | 993.4 | 1350.2 | 1684.9 | 686 | 857.8 |
| TPM2 | 102.4 | 121.1 | 100.2 | 90.1 | 95.9 | 97 | 97 | 120.3 |
| TPM2 | 507.4 | 475.9 | 406.2 | 480.6 | 549.7 | 942.5 | 323.5 | 616.3 |
| TPM3 | 3971.6 | 5491.2 | 1608.8 | 1038.7 | 950.1 | 738.2 | 3071 | 3590.9 |
| TPM3 | 102.4 | 113.6 | 90.6 | 86.5 | 80.7 | 89.8 | 95.5 | 100.5 |
| TPM3 | 131.1 | 127 | 83.8 | 77.8 | 80.3 | 87.6 | 102.8 | 146.4 |
| TPM4 | 173.6 | 243.4 | 132.9 | 131.1 | 108.4 | 161.2 | 207.3 | 342.1 |
| TPMT | 308.9 | 368.3 | 304.9 | 568.5 | 435.8 | 507.7 | 277.9 | 335.5 |
| TPO | 79.4 | 89.4 | 82.4 | 83.5 | 82 | 87.9 | 80.7 | 100 |
| TPO | 108.1 | 125.6 | 100 | 108.2 | 95.3 | 87.8 | 109 | 122.6 |
| TPP1 | 1515.5 | 1722 | 1546.3 | 2232.5 | 1732.3 | 2166.5 | 1686.3 | 2847.3 |
| TPP2 | 169.7 | 198.1 | 132.1 | 127.2 | 120.6 | 152.4 | 151.3 | 215.6 |
| TPPP | 112 | 130.8 | 91.7 | 83.5 | 80.9 | 86.4 | 120.1 | 125.8 |
| TPR | 987.7 | 1487.6 | 1168.3 | 1612.4 | 1537.7 | 3423.1 | 948.9 | 1235.1 |
| TPRKB | 173.3 | 204.2 | 101.9 | 91.9 | 93.9 | 103.9 | 183.4 | 282 |
| TPRX1 | 116.3 | 109.1 | 86.5 | 88.9 | 86.4 | 84 | 121.7 | 105.5 |
| TPRXL | 77.8 | 86.7 | 80 | 81.6 | 75.1 | 77.1 | 83.5 | 86.6 |
| TPSAB1 | 85 | 85.1 | 83 | 81.6 | 77.4 | 85.1 | 84.2 | 83.2 |
| TPSD1 | 78.6 | 87.9 | 79.6 | 81.4 | 77.1 | 81.8 | 82.5 | 85 |
| TPSG1 | 101.7 | 106.8 | 98.9 | 90.5 | 87.1 | 93.7 | 98.8 | 100.8 |
| TPST1 | 158.7 | 185.6 | 132.2 | 175.8 | 154.5 | 229 | 185.7 | 258.9 |
| TPST2 | 1460.2 | 2138.7 | 1163 | 1103.2 | 827.9 | 1078.1 | 2296.5 | 2838.1 |
| TPT1 | 30990.4 | 30666.6 | 57260.5 | 53274.2 | 53226.3 | 51629.1 | 31479 | 31554 |
| TPTE | 81.3 | 83.6 | 86.8 | 84.2 | 78.2 | 77 | 77.1 | 77 |
| TPTE2 | 77.6 | 89.3 | 98.2 | 93.6 | 83.3 | 88.5 | 79.6 | 83.2 |
| TPTE2 | 119.1 | 151.3 | 113.1 | 146 | 154.6 | 153.8 | 105.2 | 110.4 |
| TPTE2 | 81.4 | 97.5 | 87.8 | 93.5 | 88.6 | 97.9 | 85.2 | 93.8 |
| TPX2 | 1122.3 | 1440.2 | 725 | 605.4 | 578.7 | 1080.2 | 746.1 | 1021.2 |
| TR2IT1 | 86.8 | 92.7 | 94 | 82.8 | 79.7 | 80.7 | 89.6 | 88.4 |
| TRA16 | 596.9 | 713.5 | 317.4 | 194.2 | 158.9 | 191.1 | 448.7 | 541 |
| TRA1P2 | 270.3 | 356.9 | 207.1 | 310.8 | 219.3 | 498.5 | 259.4 | 364.3 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| TRA2A | 1081.6 | 1620.7 | 643.4 | 610.5 | 538.2 | 714.8 | 777.3 | 1043.1 |
| TRADD | 198.9 | 263.1 | 162.7 | 146.6 | 150.2 | 117.6 | 195.9 | 222.4 |
| TRADD | 259.5 | 331.9 | 203.8 | 164.8 | 150.3 | 187.8 | 221.4 | 319.1 |
| TRAF1 | 100.9 | 116.5 | 105.9 | 96.4 | 105 | 98.5 | 104.4 | 107 |
| TRAF2 | 191.2 | 221.9 | 218.5 | 180.6 | 146.9 | 236.2 | 182.6 | 301 |
| TRAF3 | 201 | 241.3 | 196.7 | 171 | 163.3 | 222.3 | 181.7 | 223.1 |
| TRAF3IP1 | 203.3 | 242 | 167.1 | 173.1 | 150 | 172.4 | 178.3 | 262.8 |
| TRAF3IP2 | 85.5 | 97.7 | 89.4 | 85.8 | 74 | 73.4 | 89.9 | 99.2 |
| TRAF3IP2 | 132.9 | 148.4 | 108.2 | 105.6 | 103.9 | 96.9 | 110 | 140.1 |
| TRAF3IP2 | 898.7 | 1160 | 541.5 | 500.7 | 380 | 561.2 | 825.1 | 731.8 |
| TRAF3IP3 | 505.1 | 695.4 | 397.4 | 350.1 | 396.4 | 555.2 | 316.6 | 372.5 |
| TRAF4 | 109.6 | 122.2 | 107.5 | 99.4 | 88 | 100.6 | 113.4 | 133.6 |
| TRAF4 | 103.6 | 130.6 | 75.8 | 79 | 75.5 | 74.8 | 105 | 135.4 |
| TRAF5 | 71.4 | 87.5 | 87.8 | 89.8 | 90.6 | 87.3 | 72.9 | 82.1 |
| TRAF5 | 93.6 | 89.4 | 81.8 | 83.9 | 74.5 | 82.6 | 84.9 | 84 |
| TRAF5 | 100.5 | 135.9 | 92.5 | 82.6 | 85.6 | 87.1 | 99.2 | 144.9 |
| TRAF5 | 77.1 | 89.3 | 87.5 | 83.4 | 77.7 | 91.2 | 75.4 | 91.1 |
| TRAF5 | 103.1 | 121.4 | 95.2 | 86 | 86 | 86.9 | 94.1 | 116.8 |
| TRAF6 | 87.5 | 84.9 | 97 | 94 | 92.7 | 93.7 | 88.6 | 93.4 |
| TRAF6 | 163.5 | 219.9 | 146.3 | 144.9 | 136.3 | 154.2 | 163.8 | 248.3 |
| TRAF6 | 219.1 | 264.2 | 202 | 165.1 | 138.9 | 183.2 | 191.2 | 302.3 |
| TRAF7 | 224.6 | 292.5 | 245.3 | 231.2 | 166.5 | 215.7 | 203 | 284.1 |
| TRAF7 | 88.9 | 102.5 | 92.5 | 88.8 | 87.6 | 93.7 | 93.3 | 110.3 |
| TRAFD1 | 214.4 | 295 | 215.5 | 201 | 221.5 | 305.7 | 242.4 | 396.7 |
| TRAIP | 275.9 | 341.4 | 147.8 | 125.3 | 117.8 | 135.5 | 233.2 | 313.7 |
| TRAK1 | 486.6 | 612.5 | 360.7 | 410.3 | 329.4 | 452 | 405 | 548.3 |
| TRAK1 | 325.9 | 425.9 | 381.1 | 447.7 | 417.3 | 694.9 | 329.9 | 631.6 |
| TRAK1 | 142.8 | 192.3 | 179.1 | 233.7 | 241.5 | 275.7 | 131.7 | 192.6 |
| TRAK2 | 385.3 | 493.8 | 258.6 | 330.8 | 245.3 | 373.4 | 379.7 | 449.9 |
| TRAM1 | 6293.9 | 7778.6 | 4270.8 | 4956.4 | 3407.2 | 5749.6 | 6222.1 | 9754.3 |
| TRAM1L1 | 106.7 | 118.4 | 83.2 | 87 | 80.1 | 89.8 | 108.7 | 123.2 |
| TRAM2 | 497.3 | 644.3 | 379.6 | 468.6 | 349.7 | 443.3 | 516.7 | 754.8 |
| TRAP1 | 1083.9 | 1513.6 | 748.8 | 464.8 | 403.8 | 776.3 | 820.3 | 1062.7 |
| TRAPPC1 | 1167.5 | 1437.7 | 630.3 | 548.1 | 441.6 | 529.1 | 1226.8 | 1672 |
| TRAPPC2 | 156.3 | 175 | 116.9 | 131.2 | 110.9 | 97.4 | 118.9 | 144.9 |
| TRAPPC2 | 730.3 | 963.6 | 487.1 | 633.4 | 546.2 | 851.3 | 645.1 | 987.8 |
| TRAPPC2 | 88.3 | 108.7 | 92.1 | 91.4 | 97 | 96.1 | 90.7 | 88.2 |
| TRAPPC3 | 1604.4 | 2254.9 | 1005.7 | 1177.4 | 927.2 | 1249.2 | 1673.9 | 1753.6 |
| TRAPPC4 | 2877.8 | 3935.8 | 1820.5 | 847.1 | 663 | 980.2 | 2482 | 3024.3 |
| TRAPPC5 | 1643.1 | 2013.9 | 873.2 | 736.4 | 574.1 | 976.3 | 1368.8 | 1433.6 |
| TRAPPC6A | 421.8 | 452.5 | 234.7 | 255.5 | 241.7 | 281 | 426.5 | 391.8 |
| TRAPPC6B | 129.9 | 171.7 | 110.3 | 103.9 | 93.6 | 108.8 | 126.5 | 213 |
| TRAPPC6B | 155.5 | 173.7 | 103.7 | 93.9 | 92.4 | 95 | 132.3 | 189.4 |
| TRAPPC6B | 195.9 | 226.2 | 114.6 | 100.1 | 101.5 | 139.8 | 205.6 | 277.2 |
| TRAT1 | 91 | 99.4 | 95.6 | 97.6 | 95.8 | 97.7 | 85.2 | 94.9 |
| TRDMT1 | 156.3 | 200.5 | 135.7 | 118.2 | 114.2 | 126.5 | 134.8 | 141.6 |
| TRDN | 103.5 | 123.9 | 102.5 | 84.1 | 83.5 | 99.1 | 102.6 | 138.6 |
| TREH | 113.2 | 117.5 | 91.4 | 86.5 | 84.7 | 83.9 | 111.3 | 108.3 |
| TREM1 | 164 | 197.5 | 88.1 | 87.3 | 87.2 | 98.7 | 139.8 | 164 |
| TREM2 | 295.9 | 341.5 | 153.3 | 170.4 | 142.4 | 169 | 208.4 | 259.5 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| TREML1 | 111.8 | 134.7 | 103.6 | 94.6 | 81.4 | 91.9 | 99.3 | 113.6 |
| TREML2 | 91.7 | 119.1 | 95.1 | 94.1 | 94.7 | 103 | 95.1 | 110.3 |
| TREML2P | 107.7 | 138.2 | 85.1 | 93.4 | 80.8 | 89.3 | 113.8 | 122.9 |
| TREML4 | 87.2 | 89.6 | 118 | 109.4 | 104.6 | 118 | 86.3 | 93.8 |
| TRERF1 | 202.1 | 253.1 | 177.2 | 193.5 | 194.8 | 277.3 | 192 | 237.5 |
| TRERF1 | 80.6 | 84.3 | 83.1 | 81.5 | 71.9 | 84.2 | 72.6 | 76.1 |
| TREX1 | 98.6 | 135.8 | 97.3 | 91.9 | 96.6 | 87.8 | 105.7 | 116.6 |
| TREX1 | 451.3 | 563.2 | 479.9 | 402.6 | 346.1 | 500.9 | 374.3 | 541.1 |
| TREX1 | 496.8 | 563.5 | 402.3 | 300.1 | 282.5 | 382.5 | 378.4 | 514.4 |
| TREX1 | 122.4 | 126.2 | 87.7 | 94.7 | 85.5 | 91.8 | 110.3 | 127.1 |
| TREX2 | 83.1 | 104.3 | 90.7 | 90.9 | 83.3 | 90 | 91.8 | 96 |
| TRFP | 2884.8 | 3784.9 | 1955.2 | 1838.2 | 1487.4 | 2285.2 | 2805.2 | 3399.9 |
| TRG20 | 940.1 | 1247.7 | 792.2 | 853 | 652.6 | 832.4 | 920.2 | 1483.4 |
| TRH | 89.3 | 90.5 | 87.7 | 78.7 | 84.4 | 80.1 | 89.3 | 82 |
| TRHDE | 89.1 | 97.2 | 102 | 102.2 | 97.2 | 109.3 | 81.2 | 79.5 |
| TRHR | 91.5 | 108 | 100.7 | 93.4 | 87.3 | 81.7 | 93 | 97.4 |
| TRIAD3 | 114 | 127.9 | 92.5 | 91.3 | 88.1 | 87.7 | 97.4 | 124.7 |
| TRIAD3 | 879 | 1042.8 | 675.1 | 657.8 | 599.5 | 655.7 | 763.4 | 1117.9 |
| TRIAP1 | 747.9 | 921.1 | 398.9 | 418 | 297.8 | 411 | 694.8 | 760 |
| TRIB1 | 184.1 | 222 | 249.3 | 190.9 | 179.7 | 206.6 | 184.9 | 232.6 |
| TRIB2 | 120.9 | 119.3 | 125.9 | 131.4 | 111.7 | 121.7 | 112.4 | 157.5 |
| TRIB3 | 1376.2 | 1884.3 | 663.7 | 426.1 | 346.7 | 474.7 | 1550.6 | 1972.6 |
| TRIM10 | 80.7 | 92.5 | 80.7 | 79.8 | 83.5 | 76.7 | 83.2 | 84 |
| TRIM10 | 75.1 | 79.3 | 93.7 | 85.6 | 81.8 | 86.4 | 86.9 | 92.1 |
| TRIM10 | 93.6 | 108 | 102.8 | 95.4 | 91.6 | 98.9 | 95.4 | 102.4 |
| TRIM11 | 324.1 | 376.2 | 190.7 | 162.8 | 146 | 167.7 | 293 | 403 |
| TRIM13 | 621.3 | 549.4 | 367.8 | 465.7 | 478.4 | 337.6 | 577.7 | 931.4 |
| TRIM13 | 292.7 | 447 | 221.5 | 239.1 | 222 | 381 | 225.3 | 369.8 |
| TRIM13 | 523.4 | 671.4 | 302.5 | 654.8 | 592.7 | 492.9 | 475.6 | 549.4 |
| TRIM14 | 151.2 | 150.3 | 113.1 | 101.8 | 86.1 | 84 | 128.6 | 125.4 |
| TRIM14 | 84.1 | 92.9 | 100.3 | 87.5 | 89.4 | 88.5 | 88.7 | 96.6 |
| TRIM14 | 134.9 | 161.5 | 112.5 | 105 | 98.2 | 95 | 135.3 | 152.1 |
| TRIM14 | 190.5 | 249.1 | 118.3 | 111.5 | 96.3 | 92.2 | 163.9 | 187.3 |
| TRIM15 | 102 | 110 | 95.6 | 83.9 | 81.3 | 85.2 | 100.8 | 107.4 |
| TRIM15 | 68.9 | 69.7 | 80.3 | 85.5 | 74.4 | 78.5 | 72.4 | 71.3 |
| TRIM15 | 91.4 | 98.6 | 85.7 | 91.8 | 81.4 | 85.6 | 91.8 | 99.9 |
| TRIM16 | 88 | 96 | 79.3 | 83.5 | 77.6 | 77.7 | 121.9 | 134.4 |
| TRIM16L | 88.3 | 106.1 | 87.7 | 84.2 | 79.1 | 85 | 92.3 | 90.6 |
| TRIM17 | 97.2 | 120 | 107.4 | 96.4 | 92 | 91.1 | 99.2 | 122.7 |
| TRIM17 | 78.2 | 81.9 | 84.2 | 86.3 | 83 | 83.1 | 76.5 | 95.4 |
| TRIM2 | 84.5 | 96.4 | 88.8 | 103.5 | 99.3 | 124.7 | 88.7 | 115 |
| TRIM21 | 485.3 | 660.4 | 403.4 | 389.5 | 299.6 | 452.3 | 396.8 | 690.4 |
| TRIM22 | 132.5 | 147.9 | 130 | 154.6 | 140.5 | 221.3 | 106.9 | 109.6 |
| TRIM23 | 298.2 | 389.2 | 177.1 | 216.7 | 174.7 | 195.2 | 221.5 | 375.6 |
| TRIM23 | 118.8 | 150.3 | 93.8 | 86.8 | 89.6 | 91.3 | 132.6 | 134 |
| TRIM24 | 300.6 | 400.6 | 142.3 | 214.3 | 162.2 | 249.5 | 264.9 | 332 |
| TRIM24 | 96.6 | 101.2 | 92.9 | 100.4 | 94.7 | 96.3 | 93.7 | 91.9 |
| TRIM24 | 748.1 | 772.6 | 610.1 | 1038.8 | 793.3 | 1352.7 | 535 | 1177.2 |
| TRIM25 | 487.9 | 655.1 | 735.6 | 644.3 | 582.4 | 739.8 | 537.4 | 1177.8 |
| TRIM26 | 161.3 | 206.1 | 134 | 139.8 | 116 | 161.3 | 190.4 | 273.4 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| TRIM28 | 790.3 | 1020.4 | 941.6 | 520.7 | 400.4 | 817.7 | 587.8 | 1161.7 |
| TRIM29 | 83.1 | 92.9 | 92.8 | 88.1 | 77.8 | 81.2 | 83.3 | 88.1 |
| TRIM29 | 179.9 | 223.2 | 127.8 | 114.3 | 114.9 | 121.1 | 153.4 | 172 |
| TRIM3 | 105.5 | 110.6 | 112.4 | 92 | 97.7 | 97.9 | 99.1 | 109.7 |
| TRIM3 | 80.8 | 96.5 | 87.7 | 81.2 | 75.9 | 82.1 | 81.2 | 93 |
| TRIM31 | 114.8 | 132.4 | 99.9 | 88.3 | 81.9 | 86.4 | 116.7 | 147.8 |
| TRIM31 | 123.3 | 146.3 | 91.8 | 92 | 94.3 | 85 | 110.4 | 124.3 |
| TRIM32 | 313.2 | 418.7 | 312.8 | 257.1 | 214 | 372.1 | 268.1 | 449.5 |
| TRIM33 | 714.9 | 913.6 | 507.8 | 354.9 | 318.5 | 508.6 | 730.9 | 998.4 |
| TRIM33 | 1015 | 1562.1 | 865.6 | 968.6 | 748.7 | 1274.9 | 1108.2 | 1857.3 |
| TRIM33 | 76.7 | 85.9 | 85.4 | 79.7 | 80.6 | 75.5 | 76.2 | 87.8 |
| TRIM34 | 81.4 | 79.4 | 96 | 103.5 | 90.3 | 91.7 | 89.5 | 83.3 |
| TRIM34 | 96.3 | 109.4 | 95.5 | 83.6 | 80.4 | 82.2 | 93.8 | 94.4 |
| TRIM34 | 89.6 | 83.1 | 93.2 | 86.2 | 86.7 | 83.4 | 81.8 | 87.5 |
| TRIM34 | 90.5 | 107.1 | 89.6 | 86.8 | 88.6 | 81.3 | 81.9 | 110.5 |
| TRIM35 | 196.8 | 285.3 | 140 | 135.5 | 108.4 | 120.4 | 170.9 | 276.6 |
| TRIM36 | 120.7 | 146 | 110.1 | 90.3 | 83.8 | 96.6 | 124.6 | 159 |
| TRIM36 | 133.6 | 160.8 | 104.8 | 110.5 | 101.7 | 134.1 | 138.6 | 240.2 |
| TRIM36 | 97.7 | 103.7 | 104.2 | 98 | 100.5 | 103.8 | 99.1 | 105.1 |
| TRIM36 | 89.9 | 104.5 | 102.8 | 92.5 | 90.6 | 94.8 | 96 | 116.3 |
| TRIM37 | 146.5 | 130.7 | 112.4 | 113 | 120.7 | 120.6 | 130 | 138.7 |
| TRIM37 | 186.8 | 246 | 191.7 | 149 | 136.4 | 203.1 | 156.9 | 224.8 |
| TRIM38 | 153.5 | 181.4 | 121.3 | 186.2 | 163.8 | 185.1 | 132.6 | 200.9 |
| TRIM39 | 80.5 | 100.1 | 89.3 | 82.9 | 84.6 | 86.9 | 84.8 | 91.2 |
| TRIM39 | 236.6 | 273.7 | 173.5 | 205.7 | 197.6 | 230.6 | 195 | 241.6 |
| TRIM39 | 99.5 | 123.9 | 114.9 | 101.8 | 100.9 | 131.4 | 102.1 | 107.3 |
| TRIM4 | 1177.8 | 1419.4 | 791.6 | 781.1 | 663.3 | 837.4 | 1100.8 | 1535.5 |
| TRIM4 | 127 | 143.4 | 118.1 | 97.4 | 88 | 100.1 | 127.1 | 149.3 |
| TRIM40 | 95.1 | 104.7 | 98.5 | 74.9 | 80 | 95.9 | 99.5 | 124.1 |
| TRIM41 | 448.1 | 508.2 | 323.1 | 311.7 | 307.3 | 407.6 | 422.7 | 743.9 |
| TRIM41 | 132.9 | 162.6 | 116.1 | 104.8 | 112.8 | 119.4 | 124.1 | 169.2 |
| TRIM42 | 90.5 | 102.2 | 95.2 | 83.4 | 81.4 | 85.6 | 93.1 | 104.7 |
| TRIM43 | 98.1 | 125.3 | 87.9 | 88.1 | 74.9 | 86.8 | 93.5 | 123.2 |
| TRIM44 | 1083 | 1497 | 1107.1 | 1736.3 | 1383.9 | 2956.4 | 888.2 | 1282.6 |
| TRIM45 | 272.2 | 357 | 261.8 | 198.7 | 170.5 | 225.6 | 220.3 | 321.3 |
| TRIM46 | 149.2 | 164.6 | 155.8 | 127.8 | 110 | 115.9 | 134.2 | 195 |
| TRIM47 | 93.3 | 95.5 | 79.5 | 78.6 | 86.6 | 96.5 | 90.8 | 99.3 |
| TRIM48 | 95 | 96.5 | 90.6 | 82.2 | 88.6 | 87.8 | 82.6 | 93.5 |
| TRIM49 | 225 | 298.6 | 134.4 | 130.8 | 122.2 | 136.5 | 242.7 | 295.4 |
| TRIM5 | 338.2 | 424.1 | 214.7 | 240.1 | 194.5 | 243.7 | 279.6 | 365.7 |
| TRIM5 | 125.6 | 146.4 | 99.2 | 91.8 | 87.2 | 100.4 | 106.3 | 132.8 |
| TRIM5 | 230.6 | 307.5 | 129.4 | 125.5 | 125.9 | 126.3 | 206.2 | 215.5 |
| TRIM50A | 78.1 | 88.7 | 101.2 | 89.7 | 86.2 | 93.3 | 83.3 | 83.3 |
| TRIM51 | 103.7 | 124.9 | 110.9 | 103.9 | 106.6 | 99.4 | 108.5 | 132.7 |
| TRIM52 | 190.1 | 199 | 129.5 | 141.2 | 129.4 | 127.9 | 153.9 | 213.9 |
| TRIM54 | 108.8 | 129.5 | 96.5 | 97.4 | 88.7 | 91.2 | 103.5 | 115.7 |
| TRIM54 | 87.8 | 93.2 | 98.4 | 76.4 | 82.2 | 84.3 | 87.3 | 94.9 |
| TRIM54 | 81.7 | 86.4 | 96.7 | 85.7 | 89.6 | 85.8 | 77.8 | 89.6 |
| TRIM55 | 90 | 99.5 | 81.7 | 87.2 | 78.4 | 85.9 | 93 | 91.9 |
| TRIM55 | 92.1 | 104.9 | 88.3 | 83.6 | 80 | 88.5 | 90.1 | 88.7 |

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|------------|--------|---------|--------|--------|--------|--------|---------|---------|
| TRIM55 | 84.6 | 99.7 | 94.3 | 70.9 | 92.8 | 87.2 | 88 | 85.2 |
| TRIM56 | 359.5 | 404.5 | 174.9 | 254.8 | 253.9 | 307.2 | 371.7 | 576 |
| TRIM58 | 174.8 | 195.3 | 129.2 | 135.4 | 135.3 | 158.2 | 156 | 198.6 |
| TRIM59 | 143.7 | 165.8 | 113.5 | 92.5 | 90.2 | 88.4 | 125.3 | 157.1 |
| TRIM6 | 84.8 | 86.7 | 85.9 | 82.5 | 83.2 | 87.6 | 82.6 | 86 |
| TRIM6 | 107.2 | 118.6 | 113 | 134.1 | 107.7 | 157.6 | 100.1 | 106.8 |
| TRIM60 | 77.8 | 74.2 | 90 | 82.5 | 82 | 83.9 | 74.4 | 82.9 |
| TRIM62 | 113.2 | 154 | 92.1 | 77.5 | 76.7 | 87.6 | 111.8 | 153 |
| TRIM63 | 118.4 | 139.9 | 83.6 | 72.5 | 82.6 | 88 | 112.8 | 144.2 |
| TRIM67 | 125.5 | 144.3 | 83.7 | 97.4 | 90.5 | 97.6 | 120.4 | 136.8 |
| TRIM68 | 501.4 | 592.7 | 326.2 | 260.1 | 237.3 | 295.1 | 494.8 | 584.7 |
| TRIM69 | 91 | 117 | 100.6 | 86 | 86.9 | 97.4 | 99.6 | 111 |
| TRIM6-TRIP | 88.2 | 96.3 | 93.8 | 86 | 87.4 | 92.6 | 85.5 | 80.5 |
| TRIM7 | 103.1 | 126.8 | 96.8 | 92.8 | 91.2 | 88.5 | 111.7 | 133 |
| TRIM7 | 102.4 | 128.1 | 104.1 | 97 | 90.6 | 95 | 108 | 107 |
| TRIM7 | 84.2 | 100.2 | 106 | 96.9 | 97.8 | 94 | 88.3 | 99 |
| TRIM71 | 89.7 | 113.9 | 97 | 95.5 | 91.2 | 95.3 | 101 | 108.7 |
| TRIM74 | 87.6 | 98.7 | 87.3 | 91.1 | 86 | 90.3 | 92.4 | 94.3 |
| TRIM8 | 563.6 | 736.4 | 584.7 | 529.6 | 452.8 | 515.8 | 590.3 | 634.5 |
| TRIM9 | 134 | 151.5 | 110.3 | 91.7 | 85.5 | 104.6 | 123 | 149.6 |
| TRIM9 | 219.8 | 284.9 | 194.9 | 128.2 | 116.2 | 146.9 | 180.1 | 197.9 |
| TRIM9 | 160 | 177.9 | 117.7 | 101.4 | 85.3 | 100.2 | 160.2 | 175.6 |
| TRIO | 102.7 | 110.7 | 114.1 | 100.4 | 102.4 | 101.5 | 107.6 | 106.3 |
| TRIOBP | 165.5 | 207.5 | 90.1 | 88.1 | 76.4 | 94.2 | 152.8 | 179.9 |
| TRIP10 | 191.4 | 213.4 | 178.9 | 136.2 | 131.5 | 172.3 | 192.9 | 312.2 |
| TRIP11 | 348.4 | 528.3 | 237.9 | 297.9 | 307.3 | 432.8 | 319.5 | 419.1 |
| TRIP12 | 801.1 | 1235.2 | 518.4 | 667.5 | 549.5 | 1153.7 | 771 | 1584.4 |
| TRIP13 | 1637.7 | 2268.3 | 1451.2 | 1299.2 | 924.9 | 1471.2 | 1140.8 | 1749 |
| TRIP4 | 502.6 | 765.6 | 388.9 | 496.4 | 444.5 | 693.7 | 429.2 | 646.1 |
| TRIP6 | 1892.5 | 2267.7 | 1663.5 | 808.2 | 677.5 | 966.2 | 1982.3 | 2884.4 |
| TRIT1 | 2034.9 | 2182.7 | 727.5 | 811.8 | 616.1 | 1230.3 | 1339.6 | 2243.2 |
| TRMT1 | 710.9 | 812.3 | 472.1 | 349.7 | 323 | 519.3 | 513.9 | 567.8 |
| TRMT12 | 661.2 | 779.3 | 219.8 | 204.1 | 181.4 | 253.5 | 528.4 | 664.4 |
| TRMT5 | 15421 | 20204.6 | 6129.5 | 5688 | 3645.1 | 6577.2 | 14024.7 | 17055.7 |
| TRMU | 187.4 | 242.8 | 128.4 | 121.1 | 116.8 | 151.7 | 173.2 | 237.9 |
| TRNT1 | 108.1 | 142 | 89.3 | 88.9 | 75.4 | 92.4 | 108.6 | 128.3 |
| TRNT1 | 580.1 | 713.1 | 348.5 | 282.5 | 211.6 | 356 | 515.6 | 763.5 |
| TRNT1 | 141.4 | 153.3 | 95.1 | 98.7 | 82 | 94.8 | 118.9 | 178.7 |
| TRO | 146.4 | 204.7 | 166.2 | 212 | 201.9 | 255.5 | 152.7 | 156.9 |
| TRO | 96.3 | 102.6 | 113.8 | 103.8 | 110.6 | 121.8 | 97.1 | 105.3 |
| TRO | 220.9 | 264.8 | 151.6 | 173.7 | 182 | 224.4 | 178 | 217.4 |
| TROAP | 493.6 | 445.6 | 524.2 | 325 | 311.1 | 398.9 | 400.3 | 728 |
| TROVE2 | 1370.1 | 1788 | 660.9 | 769 | 621.5 | 1112.2 | 1114.5 | 1845.3 |
| TROVE2 | 157.1 | 186.3 | 100 | 102.1 | 84.2 | 119.9 | 145.2 | 285.5 |
| TROVE2 | 834.9 | 1170.2 | 359.1 | 330.5 | 265.1 | 242.6 | 596.1 | 748.5 |
| TROVE2 | 2388.6 | 3483.3 | 1512.3 | 1848.6 | 1312.4 | 1825.3 | 1752.9 | 3282.5 |
| TRPA1 | 92.4 | 94.5 | 95.9 | 95 | 84.1 | 92.7 | 83.2 | 101.2 |
| TRPC1 | 90.9 | 106.2 | 93.4 | 88 | 83.3 | 92.1 | 92.9 | 102.5 |
| TRPC2 | 248.6 | 311.1 | 187.2 | 121.7 | 114.7 | 116.2 | 248.1 | 279.9 |
| TRPC3 | 99.3 | 119 | 95 | 100.9 | 95.9 | 95.1 | 96.7 | 97.7 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| TRPC4 | 139.7 | 166.1 | 111.1 | 99 | 86.6 | 98.1 | 130 | 147.6 |
| TRPC4AP | 782.8 | 962.6 | 390 | 349.4 | 354 | 458.7 | 669 | 831.4 |
| TRPC4AP | 868.1 | 1006.6 | 918.6 | 814.6 | 648.5 | 1225.4 | 647.7 | 1011.5 |
| TRPC5 | 123.5 | 159.7 | 103.7 | 84.6 | 76.3 | 85.5 | 118.3 | 176.5 |
| TRPC6 | 97.5 | 99.5 | 103.6 | 97.2 | 96.8 | 98.3 | 92.2 | 96.8 |
| TRPC7 | 82.1 | 99.9 | 98.2 | 86.5 | 94.4 | 90.7 | 93.7 | 93.7 |
| TRPM1 | 82.4 | 81.2 | 91.4 | 80.8 | 80.3 | 81.3 | 78.5 | 80.6 |
| TRPM2 | 236.1 | 289.8 | 126.5 | 124.1 | 109.3 | 178.6 | 204.6 | 218.8 |
| TRPM2 | 85.4 | 88.1 | 116.6 | 101.9 | 101.6 | 103.6 | 81.6 | 80.2 |
| TRPM3 | 98.2 | 107 | 94.1 | 90.8 | 82.9 | 86.7 | 91.1 | 101.7 |
| TRPM3 | 82 | 95 | 82.3 | 78.9 | 83.2 | 77.5 | 81.4 | 91.5 |
| TRPM4 | 1476.2 | 1986.8 | 514.1 | 290.3 | 282.1 | 384.1 | 1552.8 | 1342.8 |
| TRPM5 | 71.5 | 80.2 | 77.3 | 79.6 | 81.8 | 85 | 71.7 | 83.4 |
| TRPM6 | 86.6 | 90.7 | 101.3 | 91.6 | 86 | 85.2 | 82.8 | 86.1 |
| TRPM8 | 81.4 | 100.5 | 85.8 | 96.7 | 95.5 | 104.7 | 85.4 | 100.1 |
| TRPS1 | 189.9 | 220.2 | 101.9 | 98.8 | 96 | 98 | 173 | 233.7 |
| TRPT1 | 70.2 | 76.6 | 81.1 | 77.7 | 78.1 | 80.3 | 70.2 | 71.6 |
| TRPT1 | 2275.2 | 2340.5 | 1611.4 | 1038 | 871.6 | 985.9 | 1681.7 | 1522.4 |
| TRPV1 | 94.8 | 107.9 | 106.1 | 90.6 | 94.4 | 96.8 | 90 | 93.4 |
| TRPV1 | 126.3 | 133.6 | 87.5 | 81 | 76 | 83.4 | 117.4 | 128.9 |
| TRPV1 | 85.7 | 98.9 | 100.5 | 89.8 | 80.9 | 95.2 | 99.6 | 87.7 |
| TRPV1 | 79.2 | 88.6 | 88.4 | 82.9 | 82.7 | 85.1 | 83.4 | 89.9 |
| TRPV1 | 74 | 91 | 98.6 | 89 | 84.7 | 77.5 | 85 | 106.3 |
| TRPV2 | 350.1 | 408.6 | 444.4 | 405.6 | 340.1 | 543.6 | 313.8 | 477.8 |
| TRPV3 | 118.5 | 151.7 | 111.3 | 100.7 | 95.4 | 98.4 | 112.2 | 130.2 |
| TRPV4 | 85.1 | 93.9 | 87.4 | 89 | 83.3 | 92.5 | 88.9 | 103.3 |
| TRPV4 | 86.1 | 84.6 | 100.6 | 99.1 | 99.2 | 99 | 75.8 | 88.4 |
| TRPV5 | 95.3 | 111.8 | 111.8 | 84.4 | 88.6 | 82.4 | 94.8 | 107.9 |
| TRPV6 | 113.6 | 136.8 | 88.3 | 89.3 | 88.4 | 88.8 | 119.7 | 123.6 |
| TRPV6 | 75.9 | 81.2 | 85.1 | 91.2 | 85.9 | 87.6 | 85.9 | 83.5 |
| TRPV6 | 79.5 | 93.3 | 86.7 | 78 | 84.8 | 80.2 | 80.2 | 94.6 |
| TRRAP | 749.4 | 1186.6 | 1084.2 | 1769.4 | 1551.7 | 2132.5 | 777.2 | 1122.8 |
| TRSPAP1 | 143.6 | 171.8 | 112 | 118.9 | 106.2 | 130.2 | 140 | 208.5 |
| TRSPAP1 | 123.5 | 142.5 | 92.5 | 83.4 | 82.5 | 99.6 | 116.3 | 169 |
| TRUB1 | 196.4 | 221.2 | 123.3 | 112.6 | 91.6 | 112.5 | 142.4 | 173.7 |
| TRUB2 | 193.4 | 300.2 | 133.3 | 113 | 120.7 | 131.6 | 190.5 | 227.6 |
| TRY1 | 119 | 143.7 | 98.9 | 86.3 | 84.3 | 96.9 | 122.3 | 126.5 |
| TRY6 | 103.2 | 110.1 | 90.8 | 84.3 | 77.6 | 86.6 | 107.5 | 111.1 |
| TSC1 | 82.9 | 98.4 | 94.6 | 85.7 | 93 | 87.9 | 88.8 | 112.2 |
| TSC1 | 493.2 | 709.1 | 222.3 | 200.4 | 219.9 | 236.8 | 543.9 | 757.7 |
| TSC1 | 97.4 | 126.5 | 102.1 | 104 | 89.5 | 91.2 | 102 | 118.7 |
| TSC2 | 154.2 | 177.9 | 151.2 | 130.7 | 119.3 | 159.6 | 152.6 | 192.7 |
| TSC2 | 77 | 84.3 | 103.8 | 93.1 | 86.5 | 95.3 | 77.9 | 88.6 |
| TSC22D1 | 165 | 203.4 | 106.9 | 165.1 | 125.8 | 170.7 | 148.7 | 217.7 |
| TSC22D1 | 326.7 | 392.6 | 154.8 | 165.6 | 185.1 | 193.8 | 235.2 | 265.2 |
| TSC22D1 | 83.6 | 108.2 | 107.9 | 102.7 | 99.1 | 98.6 | 84.9 | 93.7 |
| TSC22D2 | 333 | 400.1 | 212.1 | 232.4 | 198 | 275.7 | 299.1 | 593.8 |
| TSC22D3 | 108.9 | 128.7 | 95.7 | 90.1 | 86 | 97.1 | 94.5 | 110.3 |
| TSC22D3 | 235.5 | 406.4 | 192.4 | 180.1 | 207.7 | 263.2 | 279.3 | 377.7 |
| TSC22D3 | 377.9 | 465 | 180.7 | 190.7 | 156.4 | 178.4 | 394.6 | 748 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| TSC22D3 | 80 | 95.2 | 94.3 | 85.4 | 81.4 | 77.1 | 83.4 | 88.3 |
| TSC22D3 | 85.7 | 87.4 | 82.9 | 87.3 | 86.1 | 82.4 | 84.4 | 87.5 |
| TSC22D4 | 153.3 | 212.1 | 172.8 | 164 | 163.6 | 257.9 | 161.8 | 262.8 |
| TSCOT | 178.3 | 198.2 | 93.3 | 105.2 | 79.9 | 94.4 | 208.7 | 259.2 |
| TSEN2 | 993.8 | 1240.7 | 649.9 | 651.4 | 543.6 | 877.3 | 656.7 | 760.9 |
| TSEN34 | 1541.7 | 2078.2 | 745.6 | 798.9 | 628.9 | 784.9 | 1444.1 | 1600 |
| TSEN34 | 603.7 | 740 | 408.6 | 503.2 | 349.3 | 528.3 | 590.8 | 966.8 |
| TSEN54 | 278.1 | 349.6 | 325.9 | 194.5 | 200.5 | 264 | 235.1 | 356 |
| TSFM | 352.5 | 465.3 | 255.7 | 215.6 | 217.8 | 241.4 | 301.8 | 411.8 |
| TSG101 | 2326 | 2858.7 | 1591.5 | 1250.2 | 932.8 | 1652.2 | 1780.6 | 3420.9 |
| TSGA10 | 100.3 | 122.7 | 116.6 | 121.3 | 113.6 | 142.1 | 93.9 | 123.5 |
| TSGA10 | 108.7 | 131.7 | 108.1 | 107.7 | 90.3 | 108.8 | 106.5 | 104.8 |
| TSGA10 | 100.7 | 103.3 | 96.9 | 107.2 | 96.7 | 98.4 | 106.8 | 114.6 |
| TSGA10IP | 124.4 | 130.2 | 101.1 | 86.8 | 85.8 | 93 | 127.2 | 135.2 |
| TSGA13 | 120 | 116.9 | 96.5 | 87.2 | 93.8 | 87.2 | 108.4 | 125 |
| TSGA14 | 301.9 | 366 | 304 | 207.9 | 169.6 | 213.6 | 269.8 | 511.3 |
| TSGA2 | 106.8 | 117.3 | 86.7 | 93.7 | 84.4 | 91.3 | 103.9 | 105.2 |
| TSHB | 84.5 | 93.9 | 81.9 | 89.7 | 80.7 | 93.9 | 86.8 | 88.5 |
| TSHR | 97.5 | 98.5 | 98.2 | 95.1 | 85.7 | 87 | 101.4 | 109.7 |
| TSHR | 108.5 | 114.4 | 93 | 76.4 | 88.3 | 84.1 | 106.9 | 104.3 |
| TSHR | 86.4 | 97.5 | 90.1 | 82.1 | 77.8 | 84.5 | 86.4 | 93.4 |
| TSKS | 95.5 | 104.1 | 96.2 | 87.2 | 84.8 | 93.2 | 94.2 | 95.9 |
| TSLP | 128.7 | 156.2 | 115.1 | 93 | 89.8 | 100.5 | 126.2 | 144 |
| TSLP | 110.1 | 133.6 | 102 | 91.5 | 77.3 | 97.2 | 116.6 | 138.5 |
| TSN | 124.6 | 153.9 | 97.4 | 87.3 | 83.7 | 102.3 | 111.9 | 160.9 |
| TSNARE1 | 108.1 | 129.2 | 96 | 87.6 | 84.2 | 87.8 | 116.8 | 121.3 |
| TSNAX | 162.4 | 184.7 | 130.4 | 121.4 | 110.6 | 224.9 | 188.7 | 468.4 |
| TSNAXIP1 | 107.1 | 147.3 | 81.1 | 82.9 | 73.3 | 87.4 | 116.3 | 142.7 |
| TSP50 | 94.2 | 100.1 | 86.8 | 83.7 | 80.2 | 84.4 | 103.9 | 112.1 |
| TSPAN1 | 108.9 | 109.1 | 129.9 | 124 | 100.2 | 112.6 | 109.3 | 105.8 |
| TSPAN10 | 166.6 | 204.3 | 120.8 | 129.4 | 127.2 | 142.5 | 134.2 | 139.9 |
| TSPAN11 | 87.1 | 96.3 | 97.3 | 82 | 79.8 | 85.2 | 85.6 | 93.2 |
| TSPAN11 | 84.1 | 98.3 | 96.6 | 79.2 | 83.7 | 74.5 | 87.6 | 90.8 |
| TSPAN12 | 85.9 | 95.9 | 87.8 | 86.7 | 83.9 | 85 | 80.9 | 94.5 |
| TSPAN13 | 98.6 | 111.9 | 87.6 | 88.7 | 84.3 | 89.2 | 101 | 130.2 |
| TSPAN14 | 140.7 | 162.7 | 121.1 | 108.9 | 108.5 | 125.1 | 142.6 | 227.2 |
| TSPAN15 | 110.4 | 120 | 111.3 | 108 | 87.3 | 110.9 | 110.8 | 118.2 |
| TSPAN16 | 89.6 | 108.2 | 110.3 | 90.6 | 93.7 | 98.6 | 93.1 | 93.7 |
| TSPAN17 | 219.5 | 277 | 144.9 | 129.5 | 106.6 | 117.3 | 207 | 248.1 |
| TSPAN17 | 1545.6 | 1782.5 | 1185.6 | 1003.1 | 993.2 | 880.5 | 1282 | 1182 |
| TSPAN18 | 104.2 | 113.9 | 105.9 | 97 | 97.3 | 114.4 | 98.9 | 108.7 |
| TSPAN18 | 96.4 | 116.1 | 114.9 | 102.2 | 93.7 | 95.5 | 89 | 117.7 |
| TSPAN18 | 125.2 | 156.8 | 93.2 | 85.2 | 74 | 96.5 | 121.6 | 148.2 |
| TSPAN2 | 80.3 | 104.1 | 93.3 | 92.5 | 82.1 | 86.9 | 79.3 | 104.7 |
| TSPAN3 | 2220.7 | 2898.7 | 892.5 | 547.8 | 494.4 | 867.1 | 1475.1 | 2320.1 |
| TSPAN3 | 3082.2 | 4545 | 1542.8 | 857.6 | 690.9 | 992.4 | 2053.5 | 2956.4 |
| TSPAN31 | 603.7 | 781.8 | 427 | 470.6 | 400.2 | 431.7 | 556.1 | 565.6 |
| TSPAN32 | 1256 | 1351.8 | 998.1 | 1533.1 | 1752.6 | 1858.4 | 616.6 | 514.6 |
| TSPAN32 | 292.5 | 303.2 | 244.2 | 334.6 | 356.2 | 442.3 | 193.5 | 235.4 |
| TSPAN32 | 298.7 | 299.3 | 237.7 | 291.1 | 333.5 | 224.6 | 182.5 | 205.2 |

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|---------|--------|---------|---------|---------|---------|--------|---------|---------|
| TSPAN33 | 352.1 | 440.1 | 183.9 | 157.5 | 140 | 146.2 | 237.2 | 206.2 |
| TSPAN4 | 281.8 | 364.7 | 179.9 | 141.4 | 156.6 | 150.7 | 256.1 | 276.5 |
| TSPAN4 | 107.1 | 124.2 | 87.5 | 92.2 | 81.7 | 86.7 | 108.2 | 112.3 |
| TSPAN4 | 172 | 231.3 | 167.4 | 115.2 | 118 | 141.1 | 161.9 | 190.6 |
| TSPAN4 | 93.1 | 110.1 | 90.6 | 76.7 | 71.4 | 81.3 | 91.9 | 106.1 |
| TSPAN5 | 367.9 | 485.9 | 195.6 | 180.8 | 153.3 | 119.4 | 301.8 | 503.6 |
| TSPAN6 | 101 | 118 | 106.7 | 109 | 115.3 | 107.2 | 106.9 | 107.5 |
| TSPAN7 | 81 | 94.3 | 84.6 | 77.8 | 78.5 | 87.3 | 82.6 | 104.8 |
| TSPAN8 | 123.4 | 126 | 83.4 | 89.3 | 79.4 | 85.3 | 111.3 | 139.7 |
| TSPAN9 | 147 | 182.9 | 134.7 | 112.1 | 105.1 | 115.9 | 154.9 | 174.8 |
| TSPO | 4607.8 | 6874.9 | 3701.2 | 2116.1 | 1728.2 | 1761.9 | 4254.9 | 5756.6 |
| TSPO | 2110.5 | 2777.8 | 817.3 | 552.1 | 384 | 687.9 | 1888.9 | 2836.5 |
| TSPO | 21658 | 26639.2 | 22294.1 | 16434.1 | 13111.7 | 14032 | 21132.5 | 21676.8 |
| TSPY1 | 65.9 | 75.6 | 84.3 | 73.4 | 80.6 | 67.8 | 73.8 | 78.5 |
| TSPY2 | 76.4 | 81.4 | 93.9 | 88.7 | 80 | 88.9 | 79.9 | 88.2 |
| TSPYL1 | 1209.9 | 1536.9 | 761.2 | 1065.9 | 712 | 1508.6 | 1019.4 | 1895.7 |
| TSPYL2 | 89.6 | 100.5 | 97.9 | 79.9 | 82.3 | 84.2 | 97.3 | 109.4 |
| TSPYL2 | 109.6 | 120.3 | 109.9 | 92.5 | 85.9 | 91.4 | 94.3 | 161.8 |
| TSPYL2 | 99.8 | 100.4 | 94.5 | 85.5 | 79.5 | 88.8 | 91.7 | 109 |
| TSPYL2 | 122.7 | 128.3 | 126.8 | 106.4 | 101.4 | 115.7 | 108.4 | 170 |
| TSPYL3 | 79.2 | 88.6 | 89.6 | 86.6 | 88.5 | 83 | 84.2 | 81 |
| TSPYL4 | 149 | 175.6 | 126.8 | 116.1 | 107.1 | 116.6 | 138.8 | 170.4 |
| TSPYL5 | 616.6 | 792.7 | 532.2 | 339.9 | 254.1 | 396.5 | 506.6 | 699.3 |
| TSPYL6 | 91.5 | 120.9 | 85.5 | 92.1 | 84.8 | 87.5 | 98.4 | 116.7 |
| TSR1 | 96.7 | 111.6 | 88 | 80.8 | 86.9 | 83.5 | 90.3 | 112.8 |
| TSRC1 | 162.9 | 198.2 | 148 | 190.7 | 161.5 | 188.8 | 159.3 | 143.8 |
| TSRC1 | 84.8 | 98.7 | 96.2 | 99.9 | 91.3 | 124.9 | 85.1 | 92.7 |
| TSRC1 | 161.1 | 188.2 | 131.6 | 151.6 | 127.3 | 158.8 | 134.9 | 127.6 |
| TSSC1 | 973.3 | 1356.5 | 927.2 | 950.7 | 733.8 | 1293.8 | 826.7 | 1210.1 |
| TSSC4 | 841.1 | 1099.7 | 499.8 | 384.2 | 365.2 | 456.4 | 867.2 | 793.1 |
| TSSK1 | 104.4 | 123 | 107.6 | 93.3 | 90.1 | 97 | 110.3 | 113.1 |
| TSSK2 | 82.8 | 100.2 | 96.8 | 91.7 | 84.3 | 101.2 | 95.8 | 85.4 |
| TSSK3 | 132.2 | 149.2 | 98.6 | 101.8 | 90.6 | 102.9 | 112.7 | 134 |
| TSSK4 | 94.9 | 98.9 | 98.2 | 94.8 | 78.1 | 87 | 98.6 | 91.9 |
| TST | 4907 | 6312.9 | 3308 | 2561.2 | 2314.9 | 2177 | 3822.5 | 3041.1 |
| TSTA3 | 607.2 | 722.6 | 283.6 | 199 | 171 | 267.6 | 456.1 | 731.3 |
| TTBK1 | 84.6 | 108.3 | 97.3 | 91.5 | 84.6 | 90.2 | 86 | 95.4 |
| TTBK2 | 109.3 | 128.6 | 110.5 | 96.9 | 97.4 | 107.9 | 103.7 | 107.7 |
| TTC1 | 1186.9 | 1500.4 | 711.1 | 733.2 | 602.8 | 1120.5 | 934.5 | 1319.2 |
| TTC10 | 121.1 | 130.2 | 111 | 90.9 | 99.5 | 98.3 | 101.7 | 112.2 |
| TTC10 | 245.7 | 338.2 | 178.8 | 161.7 | 156.9 | 212.8 | 198.8 | 288.1 |
| TTC12 | 174.1 | 226.7 | 154.9 | 136.6 | 104.5 | 142.9 | 142 | 209 |
| TTC13 | 1087.7 | 1387.3 | 931.2 | 974.5 | 746.6 | 1388.5 | 801 | 1213.3 |
| TTC13 | 129.5 | 137.3 | 119.1 | 102.5 | 97.2 | 113.9 | 103.1 | 114.9 |
| TTC13 | 524.2 | 689.2 | 374.1 | 323.9 | 288.8 | 433.3 | 421.2 | 508.7 |
| TTC14 | 508.2 | 599.3 | 337.1 | 287.5 | 278.5 | 565.8 | 314.7 | 577.1 |
| TTC14 | 441.9 | 478.8 | 280.5 | 306.7 | 269.9 | 420.6 | 318.7 | 605.4 |
| TTC15 | 638.9 | 866 | 756.1 | 650.1 | 593.4 | 806 | 579.2 | 1074.6 |
| TTC16 | 187.2 | 233.3 | 138.7 | 129.7 | 126.9 | 125.1 | 183.7 | 222.7 |
| TTC17 | 352.1 | 470.4 | 270.9 | 362.1 | 389.6 | 523.2 | 309.2 | 446.8 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| TTC18 | 111.3 | 114.2 | 94.5 | 90.9 | 80.7 | 93.2 | 93 | 122.8 |
| TTC19 | 616.9 | 691 | 527.6 | 605.8 | 411.4 | 895.7 | 469 | 789.8 |
| TTC21A | 92.9 | 100.6 | 93.8 | 76.8 | 81.6 | 95.4 | 90.5 | 125.6 |
| TTC21B | 79.5 | 86.7 | 94.2 | 82.2 | 79.3 | 86.2 | 83.6 | 84.3 |
| TTC22 | 83.4 | 81.5 | 90.8 | 97.8 | 90.2 | 93.8 | 77.3 | 90.1 |
| TTC23 | 164.1 | 207.6 | 102.4 | 109.9 | 101.1 | 103 | 167.8 | 224.4 |
| TTC23 | 379.1 | 470.1 | 343.4 | 281 | 267.3 | 350.7 | 364.2 | 480.3 |
| TTC25 | 141.6 | 175.9 | 107 | 111.6 | 87.2 | 108.7 | 133.3 | 160.9 |
| TTC3 | 843.9 | 1100 | 776.3 | 1612.1 | 1100 | 2102.8 | 766.5 | 1661.9 |
| TTC3 | 107.1 | 125.1 | 88.1 | 87.6 | 84.7 | 94.5 | 109.8 | 115.7 |
| TTC32 | 335.7 | 366.4 | 176.2 | 178.4 | 185.3 | 202.7 | 301.6 | 434.8 |
| TTC4 | 2144.1 | 2676 | 1334.1 | 1317.8 | 943.4 | 1559.9 | 1829 | 2494 |
| TTC5 | 404.5 | 593 | 312.1 | 246.4 | 209.8 | 280.4 | 364.4 | 402.2 |
| TTC6 | 73.5 | 81.2 | 93.1 | 87.8 | 69.8 | 74.4 | 72.1 | 79.6 |
| TTC7A | 228.8 | 275.2 | 250.7 | 311.8 | 275.7 | 393.9 | 172.5 | 223.8 |
| TTC7B | 109.7 | 123.7 | 109.5 | 108 | 98.2 | 96.6 | 110.3 | 121.1 |
| TTC8 | 164.8 | 205.1 | 101.6 | 103.4 | 86.4 | 100.7 | 146.1 | 151.9 |
| TTC8 | 235.7 | 305.9 | 154.8 | 160.7 | 135.1 | 193.9 | 193.8 | 228.7 |
| TTC9B | 75.8 | 88.4 | 92.7 | 93.6 | 87.2 | 92.5 | 84.9 | 89.5 |
| TTC9C | 362.4 | 522.6 | 230.2 | 173.4 | 190.4 | 213.7 | 335.4 | 392.8 |
| TTF1 | 114.9 | 120.8 | 82.6 | 79.1 | 79.1 | 80.8 | 106.9 | 126.5 |
| TTF2 | 2076.9 | 2731.3 | 1453 | 1237.2 | 1038.6 | 1467 | 1655.7 | 1816 |
| TTK | 2045.2 | 2248.7 | 1136.7 | 1146.1 | 900.1 | 1568.1 | 1535.6 | 2776.1 |
| TTL | 429.2 | 557.8 | 226.5 | 233 | 219.3 | 249.3 | 398.1 | 490.2 |
| TTLL1 | 98.3 | 111.8 | 99.1 | 80.7 | 91 | 90.3 | 89.8 | 107.7 |
| TTLL1 | 154 | 177.1 | 115.3 | 105.3 | 102.4 | 134.5 | 137.7 | 172.5 |
| TTLL1 | 210.2 | 283.7 | 150.4 | 131.4 | 127.2 | 123.2 | 180.2 | 201.1 |
| TTLL10 | 76.3 | 82.9 | 94.9 | 88.4 | 74.9 | 82.5 | 76.6 | 90.2 |
| TTLL12 | 785 | 1040.4 | 762.8 | 661.5 | 507.9 | 808.8 | 651.4 | 1159.3 |
| TTLL13 | 102.9 | 110.9 | 92 | 89.9 | 79.7 | 85.3 | 93.6 | 98.4 |
| TTLL2 | 74.4 | 80.5 | 89.9 | 82.1 | 78.7 | 84.2 | 75.5 | 78.8 |
| TTLL3 | 214.1 | 220.6 | 243.7 | 257.4 | 251.4 | 338.4 | 163.7 | 300.1 |
| TTLL3 | 93.1 | 102.3 | 120.9 | 104.1 | 97.6 | 98.9 | 93 | 114 |
| TTLL4 | 152.9 | 172.7 | 134.2 | 134.5 | 120.4 | 144.6 | 154 | 231.7 |
| TTLL5 | 308.2 | 407.5 | 231.5 | 216.4 | 192.4 | 231.6 | 254.5 | 266.5 |
| TTLL6 | 100.8 | 100.6 | 101.3 | 86.1 | 92.2 | 92.6 | 100.6 | 96 |
| TTLL7 | 99 | 108.7 | 117.9 | 100.7 | 105.1 | 109.9 | 92.7 | 111.6 |
| TTLL9 | 95.2 | 119.4 | 101.5 | 79.8 | 91.5 | 87.5 | 109.8 | 117.9 |
| TTMA | 102.9 | 94.2 | 107.8 | 99.2 | 91.6 | 101.6 | 91.9 | 89 |
| TTMB | 96.5 | 112.1 | 85.3 | 77.8 | 77.4 | 76.2 | 93.9 | 117.2 |
| TTN | 98.6 | 107.9 | 96.3 | 87 | 87.1 | 95.7 | 90.7 | 114.6 |
| TTN | 87.1 | 91 | 92.2 | 81.7 | 80.8 | 89.1 | 77 | 94.5 |
| TTN | 113.1 | 117.9 | 99.5 | 90.9 | 90.6 | 98.7 | 109.4 | 100 |
| TTN | 96.8 | 107.8 | 91.6 | 86.3 | 81.2 | 87.4 | 97 | 105.9 |
| TPPA | 71.8 | 77.5 | 94.3 | 79.6 | 81.9 | 90.1 | 76 | 78.7 |
| TTR | 91.2 | 102.8 | 96 | 96.2 | 101.4 | 108.3 | 93 | 92.2 |
| TTRAP | 117.6 | 138.4 | 93 | 91.6 | 87.9 | 95.1 | 117.8 | 189.2 |
| TTY1 | 119.3 | 119 | 91.2 | 83.3 | 84.9 | 82.2 | 108.7 | 116.5 |
| TTY10 | 146 | 159.3 | 98.4 | 105.9 | 86.5 | 87.6 | 140.4 | 182.2 |
| TTY11 | 98.1 | 109.9 | 121.6 | 108.6 | 94 | 100.2 | 88.8 | 99.1 |

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|---------|---------|---------|---------|--------|--------|--------|---------|---------|
| TTY12 | 96.3 | 101.4 | 95.9 | 82.4 | 71.1 | 73.5 | 91.6 | 99.2 |
| TTY13 | 84.7 | 106.6 | 83.5 | 82.7 | 82.1 | 95.1 | 80.9 | 102.8 |
| TTY14 | 147.7 | 199.1 | 97.7 | 90.7 | 83.2 | 91.7 | 138.1 | 165.8 |
| TTY17A | 101.3 | 107.4 | 81.1 | 78.1 | 92.2 | 85.5 | 92.1 | 100.4 |
| TTY19 | 101.4 | 103.3 | 112.4 | 99.2 | 97.1 | 99.2 | 95.8 | 97.4 |
| TTY2 | 88.8 | 102.9 | 85 | 83.4 | 79.1 | 82.3 | 92.1 | 102.2 |
| TTY21 | 83.5 | 88.7 | 91.7 | 88.8 | 88.5 | 87.5 | 86.3 | 94.9 |
| TTY5 | 96.5 | 103 | 92.9 | 94.7 | 93.6 | 91.5 | 87.5 | 90.8 |
| TTY6 | 109.5 | 118.2 | 95.4 | 94.5 | 89.4 | 83.8 | 101.9 | 113.3 |
| TTY6B | 83.9 | 100 | 91.3 | 80.1 | 80.2 | 83.6 | 89.7 | 84.7 |
| TTY7 | 87 | 88.1 | 92.7 | 84.8 | 80.8 | 88.8 | 92.1 | 92.8 |
| TTY8 | 89.5 | 102.4 | 91.2 | 85.3 | 93.4 | 92.4 | 98.5 | 100.5 |
| TTY9B | 87.5 | 104.5 | 99.8 | 89.3 | 86.2 | 91 | 100.3 | 100.2 |
| TYH1 | 97.2 | 119.4 | 93.4 | 84.1 | 71.6 | 80.1 | 90.9 | 104.2 |
| TYH1 | 94.7 | 104.1 | 90.2 | 82.2 | 74.7 | 83.8 | 92.1 | 109.6 |
| TYH2 | 97.1 | 112 | 106.4 | 121.6 | 113.9 | 126.7 | 101 | 100 |
| TYH2 | 97.5 | 108.4 | 119 | 108.7 | 101.2 | 112.3 | 107.3 | 96.9 |
| TYH2 | 107.4 | 116.2 | 91.3 | 84.8 | 87.8 | 94.2 | 91.5 | 110 |
| TYH3 | 304.3 | 401.7 | 458.6 | 528 | 424.6 | 668.4 | 251.2 | 448.8 |
| TUB | 95.2 | 113.4 | 97.9 | 97 | 82.4 | 95.3 | 93.4 | 96.2 |
| TUB | 112 | 110.7 | 89.8 | 84.9 | 88.9 | 89.3 | 111.7 | 113.8 |
| TUB | 138.2 | 141.8 | 97.3 | 96.1 | 84.5 | 85 | 116.3 | 143.5 |
| TUBA1 | 1126.7 | 1273.3 | 452.8 | 363.6 | 296.4 | 415.5 | 1148.4 | 1853.9 |
| TUBA1A | 16560.4 | 17020.4 | 7758.8 | 6407.7 | 5355.1 | 5446.9 | 14944.4 | 17858.5 |
| TUBA2 | 77.9 | 93.7 | 94.3 | 90.8 | 91 | 90.8 | 76.2 | 87.6 |
| TUBA3D | 83.9 | 97 | 83.7 | 81.8 | 77.6 | 79.3 | 88 | 90.1 |
| TUBA4 | 72.9 | 81.8 | 84.1 | 87.1 | 78.4 | 82.5 | 83.4 | 77.3 |
| TUBA6 | 22654.3 | 27416.9 | 17397.7 | 8018.5 | 7274.7 | 8899.2 | 16548.3 | 21969.8 |
| TUBA8 | 74 | 87.1 | 89.3 | 86.3 | 89.8 | 81 | 82 | 93.1 |
| TUBAL3 | 80.5 | 89.3 | 101.3 | 97.4 | 90.5 | 88.2 | 75 | 87.8 |
| TUBB | 123.6 | 131.3 | 88.3 | 87.5 | 82 | 84.3 | 128.5 | 159.8 |
| TUBB | 7963.1 | 9576.7 | 6559.8 | 6542 | 5243.3 | 7780.1 | 6104.4 | 7265 |
| TUBB2A | 124.3 | 155.7 | 103.7 | 82.6 | 80.7 | 88.5 | 129.1 | 173.2 |
| TUBB2B | 141.1 | 122.6 | 91.5 | 84.9 | 89.1 | 84.6 | 114.9 | 142.8 |
| TUBB2C | 6518.6 | 7628.6 | 3514.7 | 1705.3 | 1187.5 | 1367.2 | 5155.6 | 6641.4 |
| TUBB3 | 251.8 | 281.8 | 181.8 | 124.2 | 118 | 112.8 | 257.4 | 259.1 |
| TUBB4 | 123.2 | 141.3 | 127.6 | 104.7 | 91.2 | 107.7 | 114.7 | 171 |
| TUBB4Q | 454 | 598 | 195.8 | 158.2 | 118.1 | 141.6 | 432 | 442.9 |
| TUBB6 | 1841.2 | 2352.1 | 629 | 406.2 | 330.3 | 252.9 | 1382.1 | 1508.6 |
| TUBB6 | 1795.4 | 2597.5 | 1356.9 | 1025 | 733.4 | 1300.3 | 1422.8 | 2485.6 |
| TUBB8 | 90.7 | 102.4 | 82.8 | 88.3 | 87.5 | 79.5 | 96.9 | 92.8 |
| TUBD1 | 192.2 | 247.9 | 110 | 101.5 | 97 | 109.5 | 213.2 | 386.1 |
| TUBE1 | 130.8 | 136.1 | 95.2 | 97 | 92.2 | 104.7 | 122.3 | 203.2 |
| TUBG1 | 214.6 | 258.8 | 103.6 | 87.7 | 89.8 | 96.3 | 208.7 | 274.2 |
| TUBG1 | 4091.8 | 5090.8 | 2604.9 | 1950.8 | 1681.3 | 1703.2 | 4038.4 | 2970.2 |
| TUBG1 | 1973.8 | 2463.2 | 1264.1 | 1025.2 | 766.2 | 1158.1 | 1554.5 | 2792 |
| TUBG2 | 340.1 | 381.2 | 229.5 | 230.2 | 209 | 234.8 | 299.4 | 313.2 |
| TUBGCP2 | 495.4 | 728.2 | 542.1 | 439.3 | 417.1 | 579.2 | 428.2 | 602.5 |
| TUBGCP3 | 147.3 | 187.8 | 125.7 | 111.8 | 122.2 | 136.6 | 129 | 148.8 |
| TUBGCP5 | 399 | 425.2 | 218.1 | 209 | 163.9 | 228.5 | 301.7 | 320.4 |

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| TUBGCP6 | 115.2 | 152.5 | 120.7 | 112.3 | 102.8 | 133 | 109.6 | 123.9 |
| TUBGCP6 | 243.9 | 249.1 | 156.2 | 157.5 | 180 | 196.6 | 189.6 | 287.3 |
| TUBGCP6 | 87.9 | 87.8 | 98.8 | 100.2 | 86.5 | 97.3 | 90 | 82.6 |
| TUFM | 2306.1 | 3173.4 | 1592.4 | 1339.3 | 829.4 | 1638.6 | 1723.9 | 3708.3 |
| TUFT1 | 135.1 | 169.7 | 117.3 | 110.3 | 97.3 | 139.4 | 160.4 | 200.4 |
| TULP1 | 109.8 | 122.9 | 79.1 | 81 | 73.9 | 94 | 104.9 | 122.5 |
| TULP2 | 80.5 | 88.1 | 97.9 | 86.8 | 82.1 | 85.6 | 77.3 | 83.6 |
| TULP3 | 125.2 | 136.6 | 119.6 | 125.5 | 99.7 | 121.7 | 136.4 | 148 |
| TULP4 | 191.5 | 291.2 | 149.8 | 174.2 | 146.9 | 196.9 | 167.9 | 221.9 |
| TULP4 | 298.3 | 451.4 | 254.4 | 329 | 290.4 | 395.3 | 290.5 | 451.1 |
| TULP4 | 99.3 | 121.1 | 92.4 | 95.9 | 81.3 | 87.1 | 109.8 | 116.7 |
| TUSC1 | 325.5 | 452.3 | 302.1 | 246 | 232 | 334.8 | 296.6 | 506.8 |
| TUSC2 | 285 | 404.2 | 195.7 | 155.6 | 149.2 | 192.8 | 241.3 | 361.7 |
| TUSC3 | 82.3 | 79.1 | 93.3 | 85.4 | 84.6 | 79.5 | 69.8 | 86.3 |
| TUSC3 | 85.9 | 97 | 90.9 | 82.5 | 86.2 | 82.9 | 89.4 | 94.4 |
| TUSC4 | 1116.7 | 1529.6 | 716.1 | 666.5 | 615.3 | 882 | 839.7 | 922.1 |
| TUSC5 | 96.7 | 109.2 | 95.3 | 78.7 | 85.9 | 85 | 104.7 | 115.7 |
| TWIST1 | 887.2 | 1361.6 | 654.3 | 432.6 | 433.4 | 693.3 | 629.1 | 814.5 |
| TWISTNB | 474.4 | 602.3 | 231 | 211.4 | 151.4 | 269.9 | 320.8 | 439.2 |
| TWSG1 | 1026.9 | 1251 | 658.9 | 574.6 | 506.2 | 757.1 | 937.4 | 1557.8 |
| TXK | 81 | 104.7 | 89.6 | 79.2 | 83.1 | 96.6 | 93 | 106.2 |
| TXLNA | 1802.2 | 2147.8 | 1244.7 | 966.1 | 864.6 | 1231.5 | 1458.8 | 1730.7 |
| TXLNB | 98.6 | 112.3 | 98 | 90.6 | 85.6 | 93.9 | 96.3 | 101.9 |
| TXN | 14642.3 | 17851.4 | 6585.2 | 4944.7 | 3190.1 | 4989.2 | 15099.4 | 16445.6 |
| TXN | 24276.7 | 28077.9 | 18949.1 | 13510.6 | 10374.2 | 14749.8 | 22610.5 | 23544 |
| TXN2 | 133.1 | 177.7 | 100.2 | 97.1 | 92.3 | 95.8 | 127.2 | 166.7 |
| TXNDC | 4026 | 4883 | 2244.5 | 1879.3 | 1320.4 | 2043.4 | 3575.1 | 4350.3 |
| TXNDC10 | 406.7 | 525 | 270.9 | 402.2 | 318.7 | 713.5 | 357.3 | 924.1 |
| TXNDC11 | 269.4 | 352.7 | 205.2 | 179 | 165.2 | 257.8 | 244.2 | 398.3 |
| TXNDC12 | 5261.6 | 6533.9 | 4567.5 | 4576.3 | 3602.8 | 4741.3 | 5058.5 | 6605.4 |
| TXNDC13 | 447.5 | 599.5 | 221.9 | 290 | 217.5 | 248.3 | 389.4 | 664.6 |
| TXNDC14 | 3283.6 | 4368.4 | 1815 | 1418.6 | 1003.8 | 2011.9 | 2240.7 | 3662.3 |
| TXNDC3 | 80.2 | 95.3 | 97.6 | 84.8 | 87.3 | 98.8 | 81.4 | 83.4 |
| TXNDC4 | 101.7 | 119.1 | 98.4 | 85.1 | 82.7 | 88.3 | 89.9 | 123.9 |
| TXNDC5 | 69.9 | 74.1 | 78.2 | 75.3 | 77.6 | 75 | 69.2 | 83.4 |
| TXNDC5 | 343.4 | 468.5 | 236.6 | 160.6 | 133.3 | 164.6 | 272.3 | 410.8 |
| TXNDC5 | 164.8 | 213 | 111.1 | 121.8 | 99.2 | 102.2 | 128.4 | 165 |
| TXNDC6 | 108.2 | 113.1 | 108.1 | 85.4 | 65.6 | 84.6 | 113.4 | 122.8 |
| TXNDC8 | 83 | 90.8 | 101.5 | 96.8 | 96 | 102.5 | 81 | 90 |
| TXNDC9 | 806.1 | 1085.8 | 370.4 | 293.4 | 253.2 | 304.5 | 724 | 1340.4 |
| TXNIP | 2025.7 | 2528.1 | 583.4 | 580.7 | 530.4 | 685.3 | 1206 | 1229.8 |
| TXNL1 | 436.9 | 599.5 | 152.8 | 159.5 | 127.2 | 184.5 | 419.2 | 1101.9 |
| TXNL2 | 2708.2 | 3404.4 | 989.7 | 641.1 | 446.8 | 1007.5 | 2176.8 | 3835.3 |
| TXNL4A | 171.1 | 194 | 130.3 | 147.6 | 130.9 | 128.2 | 148.4 | 175 |
| TXNL4B | 141.9 | 162.6 | 133 | 135.3 | 111.7 | 132.2 | 147.2 | 188.8 |
| TXNL5 | 5508.2 | 5893.9 | 2984.1 | 3337.1 | 2260.6 | 3131.3 | 5109.4 | 6652.5 |
| TXNL6 | 87.3 | 103.4 | 105.5 | 98.2 | 90.6 | 86.7 | 97 | 107.1 |
| TXNRD1 | 851.5 | 1300.3 | 758.5 | 640.5 | 556.5 | 1004.2 | 2067.8 | 3736.3 |
| TXNRD1 | 705.9 | 1034 | 386.8 | 273.5 | 221.1 | 362.2 | 1346.5 | 2290.7 |
| TXNRD2 | 557.5 | 722.2 | 392.4 | 296.8 | 274.4 | 322 | 473.4 | 540.5 |

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|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| TYK2 | 2680.1 | 2606 | 1953.7 | 1646.3 | 1667.4 | 2068.3 | 1584.1 | 1464.5 |
| TYMS | 9396.9 | 11012.2 | 6464 | 5938 | 4414.3 | 6186.4 | 7827.5 | 12804.6 |
| TYR | 80.9 | 87.6 | 101.9 | 90.2 | 86.1 | 90 | 82.1 | 91.1 |
| TYRO3 | 175.4 | 219.8 | 198.6 | 202.3 | 171.5 | 216.3 | 171 | 325.2 |
| TYRO3P | 86.3 | 95.8 | 95.1 | 81.2 | 80.5 | 86.3 | 98.9 | 90.3 |
| TYROBP | 5897.1 | 6533.2 | 5041.5 | 7585.4 | 6099.1 | 8275.1 | 4639.3 | 5652.4 |
| TYRP1 | 81.9 | 91.5 | 80.1 | 89.9 | 79.5 | 77.4 | 86.5 | 76.8 |
| TYSND1 | 1093.1 | 1352.1 | 698.8 | 338.5 | 299.1 | 328.5 | 710.2 | 612.8 |
| TYSND1 | 181.3 | 217.7 | 145.7 | 102.4 | 90.3 | 90.3 | 135.3 | 160.1 |
| TYSND1 | 121.7 | 140 | 121.4 | 111.2 | 98.7 | 130.1 | 102.8 | 137.2 |
| U1SNRNPB | 533.6 | 609.9 | 364.3 | 321 | 304.7 | 292.4 | 459.1 | 450.8 |
| U1SNRNPB | 239.5 | 285.4 | 130 | 118.9 | 114.6 | 123.8 | 228.4 | 241.8 |
| U2AF1 | 1812.5 | 2541.4 | 818.4 | 807.7 | 570.4 | 831.8 | 1825.2 | 2986.1 |
| U2AF1 | 584.9 | 767.9 | 193 | 193.9 | 155.2 | 201.3 | 522.4 | 715.1 |
| U2AF1L2 | 569.2 | 630.2 | 338.9 | 363.7 | 366 | 389.5 | 466 | 547.7 |
| U2AF1L3 | 243.9 | 260.5 | 174.8 | 135.5 | 120.4 | 137 | 215.9 | 306.9 |
| U2AF1L3 | 126.7 | 147.2 | 109.7 | 112.9 | 95.4 | 126.4 | 126.2 | 148.4 |
| U2AF1L4 | 524.8 | 693 | 548 | 499.8 | 405.5 | 455.3 | 471.9 | 597.8 |
| U2AF2 | 4365.6 | 5435.9 | 2693 | 2182.1 | 1840.5 | 1398.8 | 3691.7 | 5669.9 |
| U2AF2 | 212.2 | 302.4 | 141.7 | 143.2 | 128.2 | 99 | 179.7 | 247 |
| UACA | 76.6 | 87.9 | 87.4 | 92.1 | 82.7 | 88.3 | 80.4 | 79.7 |
| UACA | 104.5 | 115.8 | 108.5 | 86.5 | 98.7 | 98.3 | 90.1 | 106.4 |
| UACA | 108.5 | 121.6 | 101.1 | 86.3 | 90.1 | 87.2 | 94.3 | 115.8 |
| UAP1 | 763.3 | 1028.2 | 192.9 | 188 | 152.5 | 203 | 667.7 | 1004.5 |
| UAP1L1 | 264.4 | 382.2 | 441.1 | 432.2 | 438 | 778.9 | 313.4 | 622.4 |
| UBA2 | 299 | 400.9 | 104.8 | 101.5 | 97.4 | 109.9 | 205.5 | 297 |
| UBA52 | 32984.4 | 30541.9 | 50086.7 | 36895 | 31483.7 | 32332.3 | 33008.6 | 32564.6 |
| UBA52 | 517.7 | 640.2 | 325 | 286.9 | 221.6 | 283.7 | 503.6 | 526.8 |
| UBADC1 | 3396.8 | 4473.8 | 3442.3 | 2747.8 | 2253.4 | 3253.2 | 2558.2 | 4257.1 |
| UBAP1 | 641.9 | 824.2 | 574.3 | 501.6 | 380.1 | 653.2 | 614.5 | 1121.1 |
| UBAP2 | 327.9 | 384 | 212.8 | 184.7 | 164.6 | 234.4 | 251.5 | 409 |
| UBAP2L | 332.5 | 414.5 | 338 | 550.2 | 375.6 | 630.6 | 258.3 | 513.7 |
| UBASH3A | 119.2 | 149.4 | 99.3 | 79.1 | 76.1 | 78.4 | 122.3 | 126.4 |
| UBASH3A | 84.5 | 81.6 | 91.1 | 89.7 | 83.1 | 85.9 | 73.9 | 87.1 |
| UBB | 24053.4 | 27831.6 | 22875.6 | 18796.5 | 15911.6 | 18055.9 | 25208.2 | 25342.5 |
| UBC | 24496.4 | 28207.6 | 17519.3 | 19244 | 16556.7 | 20068.1 | 27852.6 | 31421.5 |
| UBC | 23699 | 26699.2 | 18239 | 17643.4 | 15096.5 | 19111.8 | 27178.6 | 32266.3 |
| UBC | 107.2 | 127.4 | 93.7 | 108 | 106.9 | 103.4 | 121.6 | 128.5 |
| UBD | 82 | 91.9 | 90.6 | 88.7 | 88 | 86.1 | 84.7 | 89.4 |
| UBE1 | 1163.1 | 1449.5 | 1489 | 1334.1 | 1049.6 | 1672.2 | 869.8 | 1407.5 |
| UBE1 | 283.3 | 291.5 | 146.9 | 140.2 | 126.4 | 85.6 | 160.6 | 197.2 |
| UBE1C | 926.5 | 1199.1 | 402.3 | 410.6 | 295 | 574.6 | 677.2 | 1212.7 |
| UBE1C | 272.5 | 286.2 | 120.4 | 124.1 | 109.9 | 131.5 | 243.9 | 356.2 |
| UBE1DC1 | 726.1 | 872.4 | 329.3 | 284.3 | 189.2 | 360.4 | 503.5 | 872.6 |
| UBE1DC1 | 101.6 | 113.7 | 95.6 | 83.1 | 80 | 80.5 | 96.3 | 111.3 |
| UBE1DC1 | 254.1 | 281.7 | 133.6 | 136.4 | 122.5 | 162.3 | 206.6 | 376.5 |
| UBE1L | 809 | 956.1 | 635.2 | 548.7 | 560.2 | 656 | 585.5 | 630.1 |
| UBE1L2 | 520.9 | 718.6 | 276.4 | 201.4 | 192.2 | 259.1 | 563 | 844 |
| UBE2A | 124.3 | 141.4 | 100.6 | 87.7 | 84.4 | 85.6 | 105 | 150.5 |
| UBE2A | 2308.7 | 3086.8 | 2004.4 | 1345.5 | 1042 | 2089.5 | 1909.6 | 3033.8 |

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|---------|--------|---------|--------|--------|--------|--------|--------|---------|
| UBE2B | 116.1 | 135.5 | 94.8 | 103.9 | 112 | 106.6 | 126.5 | 148.4 |
| UBE2C | 4020.8 | 4313.4 | 1955.8 | 996.4 | 760 | 921.8 | 2920.3 | 4283.6 |
| UBE2C | 2905.4 | 3319.1 | 1749.1 | 906.1 | 620.5 | 926.6 | 2109.2 | 3279.7 |
| UBE2C | 206.4 | 214.2 | 178.6 | 136.9 | 136.1 | 139 | 136.3 | 180.6 |
| UBE2C | 86.3 | 91.2 | 91.2 | 81.7 | 85.5 | 80.6 | 79.5 | 82.4 |
| UBE2D1 | 114.7 | 136.2 | 98.5 | 96.6 | 85.4 | 91.8 | 127.6 | 118.7 |
| UBE2D2 | 265.1 | 336.7 | 165.4 | 200.3 | 172.9 | 208.6 | 226 | 344.6 |
| UBE2D2 | 210.3 | 278.4 | 127.4 | 181.2 | 166.3 | 176.8 | 189.7 | 246.4 |
| UBE2D2 | 170.3 | 187.2 | 122.1 | 113.7 | 103.4 | 99.6 | 165 | 208.5 |
| UBE2D3 | 93.1 | 107.6 | 90.3 | 88.1 | 85.5 | 88.5 | 86.6 | 97.4 |
| UBE2D3 | 3217 | 4043 | 1940.1 | 1606.4 | 1446.5 | 2138.4 | 2444.3 | 3757.2 |
| UBE2D3 | 9302.2 | 12584.3 | 5867.3 | 4145 | 3328.8 | 5674.7 | 7922.1 | 10606.7 |
| UBE2D3 | 105.6 | 133.8 | 100.7 | 96.2 | 89.8 | 87.1 | 112.9 | 138.6 |
| UBE2D4 | 648.2 | 742.9 | 419.2 | 357.7 | 259.5 | 370.1 | 554.5 | 797.2 |
| UBE2E1 | 6751.1 | 7852.5 | 3157.7 | 3605 | 2303.9 | 3560.2 | 5773.9 | 8656.8 |
| UBE2E1 | 1245.1 | 1729.1 | 288.5 | 188.5 | 165.7 | 262 | 910.7 | 1004.7 |
| UBE2E2 | 1666.3 | 2218 | 1010.7 | 925.6 | 684.3 | 1045.6 | 1458.4 | 1735.4 |
| UBE2E3 | 708.3 | 860.8 | 312.6 | 246.3 | 225.3 | 353.8 | 504.9 | 581.6 |
| UBE2E3 | 1830.5 | 2386.3 | 1833.8 | 1508.7 | 1175.9 | 1815.2 | 1434.1 | 3759.3 |
| UBE2F | 1876.4 | 2478.1 | 1653.1 | 1699.8 | 1608.4 | 2317 | 1798.5 | 1868.6 |
| UBE2G1 | 456.9 | 726 | 320.1 | 343.4 | 261.5 | 296.5 | 460.2 | 553.3 |
| UBE2G1 | 709.3 | 979.5 | 314.8 | 282.4 | 219.5 | 363.6 | 552.8 | 868.7 |
| UBE2G2 | 1677.3 | 1710.8 | 1001.6 | 1446.5 | 1087.1 | 1437.7 | 1169.1 | 1790 |
| UBE2G2 | 104.9 | 118.2 | 103.4 | 110.9 | 101.8 | 108.5 | 92.6 | 99.4 |
| UBE2H | 235.1 | 280.2 | 131 | 121.7 | 131.7 | 119.9 | 226.5 | 423.4 |
| UBE2H | 328 | 369.1 | 128 | 139.1 | 122.4 | 128 | 307.9 | 486.4 |
| UBE2I | 7440 | 9770 | 5597.6 | 3292.9 | 2807.6 | 3448.7 | 6916.6 | 8647.7 |
| UBE2I | 106.3 | 153.7 | 100.7 | 88.9 | 88.6 | 89 | 105.4 | 112.7 |
| UBE2I | 99.3 | 117.2 | 95.8 | 94.4 | 86.7 | 91.7 | 99.3 | 98.6 |
| UBE2I | 180.2 | 230.9 | 134.8 | 111.8 | 104.2 | 102.1 | 148.6 | 171.7 |
| UBE2J1 | 939.5 | 1187.5 | 784 | 892.7 | 628.1 | 968.4 | 770.9 | 1003.2 |
| UBE2J2 | 151.7 | 177.2 | 148.2 | 137.6 | 125.4 | 160.5 | 123.2 | 152.6 |
| UBE2J2 | 396.5 | 502.2 | 196.1 | 152.7 | 154 | 187.1 | 343.6 | 307.1 |
| UBE2J2 | 76.7 | 72.4 | 102.6 | 85.9 | 79.6 | 81.1 | 76.9 | 80.6 |
| UBE2L3 | 665.5 | 807.8 | 484.7 | 574.1 | 437 | 421.1 | 604.6 | 659.2 |
| UBE2L3 | 229.2 | 297.2 | 173.5 | 211 | 153.4 | 175.9 | 202.7 | 288.5 |
| UBE2L6 | 87.9 | 92 | 100.9 | 96.2 | 97.1 | 88.7 | 82.7 | 83.5 |
| UBE2L6 | 1126.3 | 1413.9 | 611.5 | 449 | 432.3 | 436 | 1128.2 | 1081 |
| UBE2L6 | 276 | 351.8 | 182.4 | 150.9 | 141.2 | 138.1 | 252.2 | 277.3 |
| UBE2M | 5620.3 | 7021.8 | 3412.4 | 2400.7 | 2290.5 | 2814.6 | 5053.5 | 5250 |
| UBE2MP1 | 101.9 | 133.3 | 97.7 | 90.9 | 85.4 | 79.3 | 90.2 | 109.9 |
| UBE2N | 1902 | 2589.4 | 986.6 | 1302.6 | 872 | 1293.8 | 1702.8 | 2077.9 |
| UBE2NL | 78.9 | 94.5 | 87 | 81.2 | 74.5 | 87.8 | 81.3 | 86.4 |
| UBE2O | 191.6 | 236.1 | 260.5 | 257.6 | 221.8 | 271.7 | 180.1 | 265.1 |
| UBE2Q1 | 734.3 | 850.1 | 533.5 | 594.7 | 460.9 | 673.3 | 547.5 | 771 |
| UBE2Q2 | 1159.2 | 1216.3 | 509.2 | 542.2 | 367.9 | 570.3 | 956 | 1529 |
| UBE2R2 | 151.7 | 183.2 | 108.6 | 95.7 | 96.6 | 107.9 | 143.4 | 153.5 |
| UBE2S | 94.7 | 116.6 | 87.2 | 77.1 | 86.1 | 80.6 | 99.4 | 102.4 |
| UBE2T | 2712 | 3046.7 | 1063.3 | 618.4 | 448.3 | 751.4 | 1943.5 | 2584.9 |
| UBE2U | 105.8 | 113.9 | 104 | 102.4 | 89.1 | 96 | 104.5 | 103.7 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| UBE2V1 | 223.5 | 273.7 | 130 | 123.9 | 125.6 | 117.7 | 194.7 | 240.7 |
| UBE2V1 | 101.6 | 108.2 | 96.4 | 77.6 | 84.2 | 84.3 | 104.2 | 100.7 |
| UBE2V1 | 96.9 | 113.8 | 89.4 | 88.4 | 90.9 | 86.8 | 97.9 | 107.1 |
| UBE2V2 | 75.6 | 88.2 | 84.1 | 80.4 | 81.8 | 80.8 | 82.9 | 80.4 |
| UBE2W | 103.4 | 118.7 | 93.3 | 87.9 | 84.7 | 93.1 | 117.4 | 112.4 |
| UBE2Z | 230 | 334.1 | 173.8 | 141 | 130 | 129.2 | 210.5 | 333.6 |
| UBE2Z | 490.3 | 645.6 | 362.8 | 398.2 | 351.5 | 510.9 | 486.8 | 1058.5 |
| UBE2Z | 155.2 | 165 | 105.5 | 104.8 | 103.2 | 98.3 | 122.3 | 171.7 |
| UBE3A | 1589.8 | 2025.4 | 820.6 | 849.2 | 664.5 | 1289.2 | 1237.9 | 1598.2 |
| UBE3A | 1115.7 | 1423.1 | 560.9 | 559.9 | 403.4 | 722.3 | 959.9 | 1336.2 |
| UBE3A | 105.4 | 121.1 | 109.9 | 103.7 | 94 | 96.9 | 102 | 121.5 |
| UBE3B | 137.3 | 173.8 | 112 | 111.3 | 95 | 122.7 | 163.4 | 221.9 |
| UBE3C | 1763.1 | 2252.8 | 1272 | 1676.8 | 1137.1 | 1953.1 | 1917.2 | 2318.3 |
| UBE4A | 614.8 | 767.6 | 259.8 | 316.6 | 235.1 | 379 | 574.2 | 892.2 |
| UBE4B | 311.9 | 426 | 179.1 | 222.5 | 198.4 | 241.4 | 369.5 | 544.3 |
| UBIAD1 | 472.7 | 644.7 | 204.2 | 158.8 | 126 | 139.5 | 452.9 | 565.4 |
| UBL3 | 669.4 | 830.6 | 348.4 | 521 | 362.9 | 624.5 | 537 | 802 |
| UBL4A | 644.6 | 832.3 | 616.9 | 407.4 | 345.7 | 466.5 | 611 | 630.4 |
| UBL4B | 98.8 | 107.3 | 86.4 | 78.1 | 83.3 | 86.8 | 97.9 | 113 |
| UBL5 | 384.4 | 421 | 206.5 | 172 | 149.1 | 186.7 | 259.5 | 281.4 |
| UBL5 | 4530.3 | 5095.7 | 1464.2 | 1025 | 745.2 | 1196.5 | 3956.1 | 4619.6 |
| UBL7 | 325.2 | 420.9 | 201.1 | 208.8 | 229.2 | 168.1 | 311.1 | 330.7 |
| UBL7 | 486.8 | 601.5 | 337.2 | 358.9 | 308.7 | 381.8 | 476.6 | 705.2 |
| UBLCP1 | 1082.2 | 1152.7 | 434.5 | 594.6 | 372.2 | 527.7 | 992.3 | 1478.3 |
| UBN1 | 116.6 | 143 | 98.3 | 85 | 78.9 | 87.8 | 112.2 | 142.6 |
| UBN1 | 1260.2 | 1787.4 | 1483.2 | 1666.6 | 1404.2 | 1717.8 | 1354.1 | 1433.9 |
| UBOX5 | 116.7 | 141 | 107.9 | 103.1 | 113.3 | 104.2 | 124.3 | 124.5 |
| UBOX5 | 129.8 | 153.4 | 108.5 | 89.7 | 90.9 | 98.8 | 123.7 | 149.9 |
| UBP1 | 1925.9 | 2446.1 | 1818.2 | 2088.2 | 1707.4 | 3755.4 | 1616.1 | 3291.7 |
| UBPH | 251.8 | 319.4 | 150.6 | 136.1 | 108.7 | 152 | 243.5 | 325.1 |
| UBQLN1 | 923 | 1237.6 | 474.4 | 366.9 | 288.6 | 467.6 | 819 | 1458.7 |
| UBQLN1 | 2770.9 | 3082.4 | 1829.8 | 1654.4 | 1114.2 | 1966.1 | 2971.6 | 4813.5 |
| UBQLN2 | 1312.2 | 1498.3 | 654.3 | 707.9 | 525.7 | 871.2 | 1069 | 1819.6 |
| UBQLN3 | 168.2 | 197.1 | 136.2 | 115.6 | 114.4 | 126.3 | 161.8 | 191.8 |
| UBQLN4 | 1377.7 | 1704.9 | 973.3 | 944.1 | 687.6 | 935.4 | 1071.2 | 1289.7 |
| UBR1 | 158.1 | 193.3 | 161.9 | 149.5 | 123.5 | 187.7 | 134.2 | 173.2 |
| UBR2 | 750.6 | 897.7 | 465.3 | 621.7 | 482.5 | 885.3 | 663.2 | 838.8 |
| UBTD1 | 196.4 | 233.6 | 229.8 | 200.2 | 167.7 | 236.1 | 182.1 | 318.7 |
| UBTF | 149.4 | 170.3 | 160.4 | 149 | 111.8 | 172.4 | 147.1 | 247.9 |
| UBTF | 146.1 | 173.8 | 98 | 94.7 | 84.9 | 90.5 | 125.7 | 151 |
| UBTF | 205.2 | 240.6 | 197.2 | 174.4 | 152.2 | 248.7 | 145.8 | 224.9 |
| UBTF | 107.1 | 133.8 | 94.7 | 89.3 | 80.7 | 90 | 113.1 | 123.8 |
| UBXD1 | 418.8 | 532.6 | 402.7 | 323.6 | 298.7 | 333.3 | 426.3 | 601 |
| UBXD2 | 1933.5 | 2275 | 1189 | 1531.3 | 1202.9 | 2455.2 | 1985.8 | 2676.2 |
| UBXD3 | 98.9 | 105.2 | 147.7 | 130.2 | 135.3 | 140.3 | 96 | 105.7 |
| UBXD4 | 570.6 | 712.2 | 474.8 | 453.2 | 393.1 | 546.6 | 523.1 | 738.3 |
| UBXD5 | 88 | 121.4 | 101 | 101.3 | 79.8 | 91.4 | 114.8 | 116.8 |
| UBXD5 | 93.7 | 104.5 | 91.2 | 91.6 | 78.9 | 92.8 | 85.9 | 100.6 |
| UBXD5 | 118.8 | 136.5 | 96.2 | 96.7 | 94.8 | 101.2 | 117.6 | 128.6 |
| UBXD5 | 304.4 | 394.5 | 302.7 | 217 | 205.6 | 376.7 | 234.5 | 336.6 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| UBXD5 | 97.4 | 118.8 | 96 | 91.3 | 79.8 | 75.7 | 99.5 | 124.5 |
| UBXD6 | 447.8 | 568.8 | 127.9 | 93.9 | 93.5 | 141.8 | 400.6 | 645 |
| UBXD8 | 2670.2 | 3539.5 | 1909.4 | 2543.7 | 1970.6 | 2947.4 | 2545.7 | 3263.8 |
| UCHL1 | 100.3 | 124.8 | 98.4 | 83.2 | 68.6 | 81.5 | 101 | 107.9 |
| UCHL3 | 2461 | 3158.3 | 1477.4 | 1045.7 | 757.5 | 1094.6 | 1686.9 | 3112.4 |
| UCHL5 | 2557.8 | 3469.9 | 1399.4 | 1587 | 1074.6 | 1893.1 | 2030.5 | 3378.6 |
| UCHL5IP | 1544.8 | 1710.2 | 1127.9 | 1018.1 | 897.5 | 1165.1 | 1219.3 | 1202.4 |
| UCK1 | 147.5 | 162.3 | 133.2 | 120.6 | 112.6 | 118.1 | 144.1 | 169.4 |
| UCK2 | 1551.4 | 1831.9 | 1139.1 | 821.6 | 639 | 1091.3 | 1212.9 | 1405.9 |
| UCKL1 | 844.6 | 975.6 | 888.1 | 1034.4 | 854.5 | 1409.3 | 627.3 | 1405 |
| UCN | 234 | 229.1 | 157.3 | 134.3 | 129.8 | 135.5 | 155.4 | 193.3 |
| UCN2 | 88.1 | 121.5 | 95.4 | 84 | 86.5 | 86.8 | 94.3 | 117.6 |
| UCN3 | 131.7 | 153.1 | 96.6 | 84.8 | 83.3 | 90.5 | 121.3 | 147.2 |
| UCP2 | 609.7 | 956 | 970 | 744.8 | 583.8 | 660.1 | 607.7 | 1338.5 |
| UCP3 | 92.4 | 108.6 | 89.4 | 86 | 72.5 | 83.7 | 102.6 | 109.3 |
| UCP3 | 118.4 | 130.6 | 101.7 | 100.5 | 103.5 | 110.9 | 114.3 | 125.4 |
| UCP3 | 117.8 | 143.4 | 94.7 | 94.1 | 88 | 108.4 | 123.2 | 157.5 |
| UCRC | 1027.1 | 1258.9 | 717.5 | 513.8 | 377.4 | 511.5 | 907.1 | 1139.1 |
| UCRC | 514.9 | 645.8 | 339.9 | 452.6 | 333.1 | 483.6 | 433.9 | 759 |
| UCRC | 446.7 | 629.5 | 400.7 | 576.2 | 436.3 | 502.6 | 448.5 | 393.5 |
| UEV3 | 285.6 | 343.9 | 114.7 | 111.3 | 103.2 | 130.7 | 245.1 | 349.5 |
| UEVLD | 154.3 | 187.3 | 101.1 | 96.8 | 90.7 | 95 | 141.7 | 192.6 |
| UFC1 | 5825.4 | 7997.4 | 5117.6 | 3063.2 | 2639.2 | 3677.7 | 5689.5 | 5995.5 |
| UFD1L | 187.9 | 244.4 | 155 | 135.6 | 136.7 | 142.3 | 184.8 | 245.5 |
| UFD1L | 150.6 | 202.4 | 135.4 | 102.2 | 105.9 | 109.7 | 143.7 | 196.1 |
| UFM1 | 209.6 | 238.1 | 147.1 | 112.9 | 123.9 | 160 | 209 | 357.8 |
| UGCG | 518 | 526.7 | 238.3 | 196.9 | 169.2 | 159.9 | 514.2 | 686.7 |
| UGCGL1 | 79.2 | 87.3 | 98.6 | 84.8 | 74.9 | 95.2 | 82.6 | 93.5 |
| UGCGL1 | 161.5 | 242.7 | 145.7 | 222.9 | 212.5 | 189 | 150.8 | 182.8 |
| UGCGL1 | 269.6 | 442.6 | 243.5 | 523.8 | 346.8 | 326.2 | 326.1 | 418.4 |
| UGCGL2 | 266.5 | 346.8 | 205.6 | 178.4 | 181.1 | 244.7 | 231.9 | 259.6 |
| UGDH | 643.8 | 810.2 | 282.3 | 336.6 | 273.7 | 389.8 | 630.6 | 947.2 |
| UGP2 | 1170.3 | 1237.6 | 557.1 | 679.8 | 388.5 | 845.3 | 1211.8 | 2146.9 |
| UGP2 | 101.9 | 114.6 | 104.2 | 96.8 | 89.9 | 97.9 | 96.3 | 98.5 |
| UGP2 | 3899.1 | 5137.1 | 2064.7 | 2035 | 1578.5 | 2912.9 | 2791.2 | 4799.9 |
| UGT1A1 | 99.4 | 99.6 | 91.2 | 89 | 85.4 | 97.9 | 90.7 | 100.9 |
| UGT1A10 | 87.1 | 96.3 | 82.5 | 78.7 | 70.2 | 82.2 | 77.9 | 80.4 |
| UGT1A3 | 121.3 | 125.1 | 93 | 82.2 | 83.2 | 79.2 | 116.8 | 131.9 |
| UGT1A4 | 89.6 | 107.1 | 88.7 | 80.2 | 74.9 | 84.9 | 85.3 | 104 |
| UGT1A5 | 95.8 | 109.8 | 88.6 | 90.7 | 78.4 | 84.4 | 102.2 | 108.1 |
| UGT1A6 | 82.9 | 96.1 | 88.8 | 93.6 | 84.9 | 81.9 | 83.3 | 95.7 |
| UGT1A6 | 79.2 | 101.3 | 100.3 | 87.5 | 88.8 | 81.7 | 83.7 | 85.9 |
| UGT1A6 | 75.6 | 81.1 | 90.9 | 88.9 | 88.2 | 79.1 | 76.9 | 86.7 |
| UGT1A7 | 86.2 | 90.1 | 79.2 | 82.9 | 76.1 | 89.6 | 87.9 | 82.4 |
| UGT1A8 | 80 | 90 | 84.6 | 90.9 | 83.2 | 85.5 | 86.2 | 88.5 |
| UGT1A9 | 88.3 | 95.2 | 102.9 | 98.4 | 90.3 | 94 | 86 | 91.2 |
| UGT2A1 | 77.2 | 80.3 | 86.6 | 77.6 | 85.5 | 78.5 | 76.4 | 78.9 |
| UGT2A3 | 85.7 | 98.1 | 92.5 | 92.6 | 82.8 | 100.2 | 82.9 | 95.5 |
| UGT2B10 | 88.3 | 103.2 | 94.4 | 84.7 | 80.1 | 80.4 | 90.7 | 85 |
| UGT2B11 | 93.2 | 102.5 | 102.8 | 101.1 | 90.4 | 95.8 | 98.6 | 105.2 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| UGT2B15 | 73.5 | 85.4 | 92.8 | 84 | 79 | 86.1 | 74.7 | 81.3 |
| UGT2B17 | 83.4 | 96 | 92.6 | 83.2 | 94 | 86.7 | 87.2 | 79 |
| UGT2B17 | 93.4 | 88.4 | 88.6 | 93.8 | 85.8 | 99.1 | 89.2 | 98 |
| UGT2B28 | 77.1 | 91.5 | 97.7 | 93.6 | 87.8 | 94.2 | 81.2 | 89.3 |
| UGT2B4 | 90.4 | 97.8 | 97.1 | 77.5 | 92.9 | 94.8 | 98.7 | 99.8 |
| UGT2B7 | 86.7 | 83.7 | 90.3 | 85.6 | 85 | 87.5 | 89.9 | 85.8 |
| UGT2B7 | 83.7 | 102.6 | 98.5 | 90.3 | 90.5 | 90.8 | 91.6 | 86.4 |
| UGT3A1 | 90.3 | 93.2 | 110.8 | 111.5 | 100.9 | 111.8 | 82.7 | 85.2 |
| UGT3A2 | 343.3 | 437.8 | 246.5 | 215.7 | 194.9 | 230.6 | 272 | 330.4 |
| UGT8 | 83.4 | 86.8 | 94.7 | 77.1 | 77.4 | 89.9 | 87.6 | 79.8 |
| UHMK1 | 339 | 370.2 | 265.7 | 287.7 | 232.6 | 126 | 271.5 | 383.4 |
| UHRF1 | 279.8 | 410.2 | 232.3 | 143.2 | 142.8 | 114.7 | 167.5 | 166.8 |
| UHRF2 | 478.8 | 622.7 | 217.6 | 199.6 | 222.4 | 356.2 | 323.6 | 454.3 |
| UIP1 | 199 | 222.3 | 148.1 | 121.5 | 114.1 | 156.4 | 148.5 | 174.4 |
| ULBP1 | 133.1 | 160.5 | 120.8 | 102 | 92.6 | 116.6 | 165.3 | 247.3 |
| ULBP3 | 128 | 146.1 | 94.5 | 96 | 93.4 | 95.7 | 118.4 | 144.3 |
| ULK1 | 960.1 | 1191.7 | 958 | 707.3 | 789.4 | 678.1 | 912.1 | 958.1 |
| ULK1 | 1011 | 1258.2 | 874.6 | 608.3 | 693.9 | 627.1 | 926.1 | 913.1 |
| ULK1 | 85.6 | 89.5 | 94.3 | 89.5 | 83.5 | 88.8 | 85.3 | 86.3 |
| ULK2 | 127.7 | 183.8 | 97.7 | 81.7 | 87.5 | 90.6 | 124 | 154.3 |
| ULK3 | 136.4 | 171.8 | 131 | 117.7 | 123 | 164.6 | 129.3 | 163.9 |
| UMOD | 78.7 | 91.3 | 100.9 | 84.7 | 77.3 | 81.9 | 70.9 | 86.7 |
| UMOD | 130.7 | 156.5 | 99.5 | 87.4 | 94.6 | 98.2 | 132.6 | 149.7 |
| UMODL1 | 82 | 86.3 | 99.7 | 78.2 | 79.6 | 86.9 | 81.2 | 90.2 |
| UMODL1 | 84.8 | 94.8 | 93.3 | 89.9 | 89.3 | 79.6 | 88.3 | 94.8 |
| UMPS | 150.1 | 174.6 | 125.7 | 99.9 | 105.7 | 126.5 | 121.6 | 140.6 |
| UNC119 | 157.8 | 151.6 | 113.9 | 93.3 | 98.1 | 103.6 | 124.3 | 177.9 |
| UNC119 | 379.1 | 461.4 | 220.6 | 179.6 | 151.3 | 204.1 | 309.9 | 320.6 |
| UNC13A | 82.8 | 91.1 | 92.3 | 91.3 | 81.1 | 85.8 | 82.8 | 82.9 |
| UNC13A | 136.6 | 165.8 | 106.4 | 111.2 | 95.9 | 95.5 | 147.6 | 194.7 |
| UNC13A | 103.7 | 133.1 | 93.4 | 84.4 | 84.1 | 85.6 | 115.6 | 113.9 |
| UNC13B | 116 | 143.8 | 105.3 | 100.2 | 95.7 | 114.2 | 106.6 | 141.3 |
| UNC13C | 85 | 87.4 | 92.2 | 84.9 | 84.4 | 83.5 | 82 | 90.1 |
| UNC13D | 114.6 | 121.7 | 137 | 131.6 | 126.6 | 184.4 | 100.6 | 112.6 |
| UNC45A | 794.2 | 943.2 | 428 | 420 | 413.1 | 502.2 | 813.8 | 1339.4 |
| UNC45A | 193.6 | 215.9 | 116.9 | 106.1 | 107.2 | 101.8 | 186 | 192.7 |
| UNC45A | 458.7 | 527.1 | 598 | 498.6 | 411.8 | 711.1 | 506.5 | 736.2 |
| UNC45A | 88.7 | 94.3 | 102.7 | 97.8 | 84.8 | 95 | 87 | 100.5 |
| UNC45B | 93.6 | 102.3 | 95.8 | 89.4 | 89.7 | 89.1 | 89.6 | 100.6 |
| UNC50 | 4158.4 | 5155.4 | 3123.3 | 2809.5 | 2040.1 | 2956.3 | 3922.3 | 5298.9 |
| UNC5A | 102.7 | 109.2 | 93.5 | 83.5 | 84.8 | 87.4 | 93.2 | 102.6 |
| UNC5B | 105.3 | 117.4 | 106.6 | 90.8 | 95.1 | 96.1 | 94.8 | 112.7 |
| UNC5C | 157.1 | 207.4 | 129.8 | 106.8 | 110.1 | 118.5 | 163.8 | 154.5 |
| UNC5CL | 84.5 | 117.6 | 79.2 | 86.4 | 78.1 | 86.3 | 92.9 | 92.2 |
| UNC5D | 74 | 78.4 | 85.7 | 79 | 77.4 | 84.1 | 82.3 | 83.7 |
| UNC84A | 489.1 | 690.6 | 387.7 | 335.8 | 320.7 | 580.8 | 391.7 | 616.6 |
| UNC84B | 4607.4 | 6448.6 | 2959.4 | 3039.8 | 2750.7 | 3361 | 4205.5 | 4108 |
| UNC93A | 93.3 | 109.2 | 99.8 | 84 | 82.6 | 89.8 | 99.8 | 106.2 |
| UNC93B1 | 1038.3 | 1320.8 | 1027.1 | 886.4 | 704.2 | 822 | 804.4 | 1645.5 |
| UNCX4.1 | 88 | 96.6 | 100.6 | 91.5 | 90.9 | 86.1 | 87.1 | 83.1 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| UNG | 185.7 | 218.7 | 101.3 | 88.9 | 82.9 | 87.9 | 136.8 | 160.4 |
| UNG | 2400.5 | 3085 | 1198.7 | 1029.1 | 871.2 | 1351.2 | 1406.4 | 2209.5 |
| UNG | 122.2 | 132.2 | 87.7 | 93.6 | 78.6 | 87.5 | 106.2 | 128.5 |
| UNG2 | 255 | 283.4 | 150.7 | 103.2 | 106.9 | 112.4 | 196.9 | 248.4 |
| UNK | 76.6 | 93.8 | 91.4 | 97.9 | 84.8 | 85 | 84.4 | 91.9 |
| UNKL | 89.3 | 95.6 | 98.6 | 100.5 | 100.8 | 101.6 | 80.9 | 94.4 |
| UNQ1940 | 135.3 | 146 | 93.4 | 86.7 | 83.8 | 94.8 | 131.9 | 132.9 |
| UNQ2446 | 85.4 | 97.3 | 93 | 84 | 91.8 | 88.2 | 88.8 | 93.4 |
| UNQ2541 | 76.7 | 89.6 | 93.8 | 84.8 | 73.2 | 78.7 | 75.4 | 90.1 |
| UNQ3033 | 87.4 | 101 | 98.5 | 95.2 | 83.8 | 95.1 | 86.8 | 99.4 |
| UNQ3045 | 102.2 | 111.9 | 117.4 | 106.9 | 100.7 | 98.8 | 94.5 | 97.7 |
| UNQ467 | 107.7 | 136.1 | 112.5 | 106 | 99.8 | 108 | 127.7 | 112.8 |
| UNQ470 | 117.1 | 133.9 | 98.3 | 149.5 | 166.1 | 160 | 116.8 | 128.9 |
| UNQ473 | 98.1 | 92.9 | 97.6 | 98 | 88.5 | 88.5 | 95.4 | 108.1 |
| UNQ501 | 3293.4 | 4232 | 2487.2 | 2453.4 | 2176.1 | 2107.9 | 3551.1 | 2965.8 |
| UNQ5783 | 108.4 | 157.2 | 113.7 | 108.9 | 102.3 | 116.8 | 95.4 | 104.6 |
| UNQ5810 | 94.9 | 99.6 | 87.4 | 90.7 | 89.5 | 84.8 | 92.7 | 103 |
| UNQ6411 | 107.4 | 110 | 97.3 | 98 | 84.3 | 93.4 | 109.1 | 117.7 |
| UNQ689 | 80.2 | 79.3 | 97.3 | 83.2 | 82.2 | 83.9 | 76.1 | 87.5 |
| UNQ739 | 144.6 | 161.3 | 100.8 | 94.9 | 93.1 | 95.1 | 132.4 | 158 |
| UNQ830 | 119.7 | 129.1 | 116.9 | 114.1 | 105.4 | 114.5 | 115.7 | 120.2 |
| UNQ846 | 154.8 | 181.3 | 123.1 | 98.7 | 101.8 | 100.7 | 134.7 | 164 |
| UNQ9217 | 123.5 | 146.1 | 101.8 | 105.2 | 84.5 | 118.2 | 117.7 | 137 |
| UNQ9356 | 109.4 | 129.8 | 96 | 92.4 | 87.6 | 92.1 | 107.6 | 142.5 |
| UNQ9391 | 117.2 | 134.1 | 89.5 | 92.2 | 83.3 | 85.2 | 105.6 | 127 |
| UNQ9433 | 144.5 | 176.9 | 90.7 | 108.7 | 87.9 | 114.7 | 166.4 | 221.3 |
| UNQ9438 | 99.7 | 105.7 | 85.7 | 91.7 | 84.8 | 96.6 | 97.3 | 105.4 |
| UPB1 | 97.1 | 117.6 | 99.7 | 101.3 | 95.2 | 100.8 | 103.3 | 94.7 |
| UPF2 | 2036.5 | 2596.8 | 1292.4 | 1446 | 1322.7 | 2383.1 | 1876.9 | 2391.4 |
| UPF2 | 115.9 | 129.7 | 98.4 | 84.2 | 98.5 | 99 | 101.4 | 121.5 |
| UPF2 | 946.2 | 1148.7 | 570.4 | 804.6 | 724.1 | 772.6 | 939.4 | 1056.5 |
| UPF3A | 528 | 652.3 | 311 | 410.2 | 355.4 | 382.5 | 435.5 | 826.8 |
| UPF3A | 845.3 | 1072.5 | 550.8 | 549.3 | 506 | 835.2 | 630.1 | 1246 |
| UPF3B | 806.3 | 1033.3 | 615.3 | 668 | 632.4 | 1085.2 | 739.6 | 1438.8 |
| UPF3B | 1318.2 | 1752.4 | 687.5 | 708.5 | 653.2 | 1358.1 | 1139.9 | 1689.7 |
| UPK1A | 97.4 | 111.7 | 88.1 | 97.1 | 92.7 | 88.8 | 87.3 | 107.7 |
| UPK1B | 110.8 | 119.2 | 92.7 | 82 | 90.4 | 94.4 | 102.3 | 132.2 |
| UPK2 | 92.4 | 103.1 | 103.2 | 92.9 | 89.1 | 102.6 | 87.3 | 90.3 |
| UPK3A | 129.2 | 167.4 | 101.6 | 86.3 | 92.7 | 100.2 | 134 | 152.1 |
| UPK3B | 97.1 | 112.8 | 88.7 | 88.4 | 78.6 | 83.5 | 106.8 | 115 |
| UPK3B | 83.4 | 88 | 98.9 | 75.2 | 88 | 90.5 | 80.1 | 85.5 |
| UPK3B | 123.6 | 164.8 | 99.7 | 94.2 | 94.8 | 100.8 | 123.4 | 139.8 |
| UPP1 | 102.6 | 119.5 | 89.2 | 93 | 83.9 | 96.6 | 96.8 | 118 |
| UPP1 | 105.6 | 124.6 | 90.4 | 83.5 | 81.7 | 77.4 | 92.8 | 110.2 |
| UPP1 | 225.6 | 279.6 | 164.2 | 155.3 | 146.5 | 162.9 | 234.1 | 247.8 |
| UPP2 | 93.9 | 98.7 | 90.9 | 82.4 | 81.4 | 84.6 | 94.4 | 97.7 |
| UPRT | 809 | 1071.8 | 409.7 | 462.9 | 376 | 565.1 | 695.5 | 1049 |
| UQCR | 263 | 304.2 | 178.2 | 129.1 | 107 | 141.7 | 248.1 | 273.6 |
| UQCRB | 231.1 | 308.1 | 132.7 | 111 | 103.7 | 112.7 | 194.9 | 264 |
| UQCRC1 | 1749.6 | 2519.7 | 1255.5 | 1125.8 | 861.8 | 1259.9 | 1742.7 | 2698.3 |

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| UQCRC2 | 1444.7 | 1957.5 | 394.1 | 362.8 | 223 | 471.1 | 1281.6 | 2093.5 |
| UQCRFS1 | 8711.8 | 11327.8 | 7397.9 | 5326 | 4060.6 | 5663.8 | 6932.3 | 10816.5 |
| UQCRH | 21129.6 | 22003.5 | 16326.3 | 15549.3 | 14318.3 | 19278.4 | 16413.6 | 17159 |
| URB | 136.7 | 156.2 | 101.5 | 109 | 101 | 97.7 | 139.5 | 145.9 |
| URB | 72.1 | 97 | 97.5 | 81.8 | 80.6 | 82.1 | 92.4 | 92.8 |
| URG4 | 292.9 | 366.3 | 307.4 | 241.2 | 261.3 | 329.3 | 311.4 | 401.8 |
| URG4 | 292.5 | 331.7 | 331.8 | 292.4 | 259.2 | 355.2 | 299.1 | 551.1 |
| UROC1 | 103.1 | 134 | 99 | 91.1 | 82 | 90.6 | 107.4 | 116.3 |
| UROD | 1796.9 | 2570.9 | 1051.9 | 1072.4 | 848.5 | 1219.3 | 1789.7 | 1922.6 |
| UROS | 3775 | 4588 | 2379 | 1638.5 | 1285.9 | 1638.6 | 3804.2 | 3167.9 |
| URP2 | 850.1 | 944.5 | 1003.5 | 1296.3 | 1191.3 | 1508.5 | 994.8 | 1791.2 |
| URP2 | 278.6 | 362.9 | 265.9 | 235.7 | 215.7 | 321.8 | 289.8 | 516.2 |
| USF1 | 440.4 | 506.9 | 211 | 193.4 | 173.6 | 171.2 | 269.9 | 347.6 |
| USF1 | 650.5 | 868.3 | 346.3 | 309.5 | 286.1 | 312.7 | 516.3 | 613.1 |
| USF2 | 143.8 | 153.1 | 95.7 | 89.9 | 93 | 82.4 | 119.1 | 136.3 |
| USF2 | 281.1 | 397.1 | 358.6 | 274.1 | 283.7 | 355.1 | 243.4 | 416.8 |
| USF2 | 228.8 | 301.9 | 176.2 | 136.8 | 122.4 | 165.9 | 212.4 | 370 |
| USH1C | 89 | 104.4 | 95.4 | 92.6 | 88.1 | 88.7 | 96.6 | 100.7 |
| USH1C | 87.6 | 96.6 | 96 | 82.2 | 88.8 | 78.1 | 90.8 | 108.6 |
| USH1G | 143.6 | 166.8 | 107.2 | 105.7 | 102 | 106.4 | 140.1 | 155.6 |
| USH2A | 93.4 | 113.6 | 101.8 | 104.3 | 96.9 | 102 | 95.4 | 95.7 |
| USH2A | 115.9 | 121.1 | 80.3 | 96.6 | 82.2 | 88.4 | 109.2 | 116.3 |
| USH2A | 81.5 | 97.3 | 95 | 79.2 | 86.8 | 84.3 | 86.8 | 94.8 |
| USH3A | 116.4 | 152 | 105.8 | 109.2 | 98.7 | 105.2 | 117.2 | 131.7 |
| USH3A | 84.8 | 78.5 | 98.4 | 97.5 | 93.5 | 91 | 82.2 | 86.6 |
| USHBP1 | 122.2 | 167.1 | 98.3 | 86.9 | 90.5 | 91.2 | 123.1 | 136.8 |
| USMG5 | 237 | 293.8 | 169.6 | 158.7 | 135.7 | 161.6 | 218.3 | 280.7 |
| USP1 | 91.4 | 97.8 | 91 | 97.5 | 83.8 | 82.7 | 87.2 | 98.5 |
| USP1 | 1479.5 | 1766 | 603.6 | 577.3 | 445.1 | 740.9 | 1123.8 | 1783.1 |
| USP1 | 568.3 | 650.4 | 269.2 | 271.1 | 259.9 | 195.8 | 447.8 | 443.2 |
| USP10 | 757.8 | 1097.7 | 297.6 | 264.2 | 216 | 327 | 616.5 | 1074.7 |
| USP11 | 262.7 | 293.2 | 202 | 148.3 | 143.4 | 169.8 | 229.8 | 328.2 |
| USP12 | 183 | 186.5 | 99.8 | 90.4 | 89 | 99.7 | 149.2 | 222.4 |
| USP13 | 506.2 | 689.7 | 292.3 | 427.5 | 330.9 | 500 | 482.3 | 673.2 |
| USP14 | 443.9 | 572.2 | 348.4 | 442.7 | 362.5 | 450.9 | 453.5 | 1108.7 |
| USP14 | 314.8 | 480.4 | 233.3 | 247.6 | 214 | 354.4 | 282.9 | 367.7 |
| USP15 | 179.9 | 201.9 | 125.1 | 125.4 | 112.6 | 175.9 | 151.1 | 179.5 |
| USP16 | 1010.1 | 1220 | 636.4 | 1054.8 | 784.6 | 2144 | 745.4 | 1522.2 |
| USP16 | 84.2 | 97 | 97.3 | 96.9 | 89.5 | 89.5 | 95.8 | 99.9 |
| USP19 | 93.2 | 95.6 | 110.9 | 101.6 | 99.4 | 107.1 | 96 | 105.6 |
| USP2 | 100 | 98.3 | 87.4 | 81 | 80.4 | 87.2 | 83.9 | 93.1 |
| USP2 | 157.4 | 176.9 | 122.6 | 107.5 | 101.8 | 114.1 | 148.7 | 140.1 |
| USP2 | 93.1 | 100 | 104.5 | 90.6 | 95.9 | 94.8 | 99 | 105.1 |
| USP20 | 90.8 | 105.2 | 90.1 | 96.9 | 82.3 | 88.5 | 95 | 99.6 |
| USP20 | 108.6 | 163.9 | 97.4 | 97.9 | 84.3 | 94.7 | 121.6 | 136.4 |
| USP21 | 580 | 792.4 | 507.5 | 249.7 | 210 | 288.8 | 461.8 | 811.3 |
| USP21 | 149.1 | 196.5 | 114.3 | 89 | 89 | 80.9 | 130.9 | 162.1 |
| USP21 | 389.5 | 502.8 | 331.9 | 197.6 | 181.3 | 223.7 | 321.2 | 531.3 |
| USP25 | 108.6 | 110.5 | 107 | 98.8 | 94.6 | 96.1 | 112.2 | 119.3 |
| USP26 | 208.2 | 261.2 | 138.2 | 139.6 | 106.9 | 130.3 | 228.1 | 258.7 |

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|--------|--------|--------|--------|--------|-------|--------|--------|--------|
| USP28 | 90.7 | 106.3 | 99.5 | 86.2 | 91 | 89.8 | 93 | 96.8 |
| USP29 | 101.1 | 102.7 | 92.8 | 94.9 | 86 | 93.8 | 95.7 | 96.8 |
| USP3 | 1608.6 | 1904.8 | 1179.1 | 1081 | 763.7 | 1156.3 | 1447.1 | 2390.2 |
| USP30 | 119.8 | 138.2 | 103.9 | 94.5 | 88.2 | 93.4 | 101.4 | 130.8 |
| USP31 | 91.2 | 93.9 | 98.5 | 81.1 | 82.6 | 81 | 91 | 97.4 |
| USP32 | 102.7 | 138 | 100.8 | 87.9 | 82.4 | 105.8 | 99.6 | 109.8 |
| USP32 | 138.8 | 161.3 | 101.3 | 144.9 | 151.5 | 184.6 | 117.3 | 150.1 |
| USP33 | 236.2 | 249.9 | 132.1 | 129.9 | 125.7 | 122.2 | 164.4 | 202.1 |
| USP33 | 273.3 | 388.4 | 168.9 | 266.5 | 218.8 | 265.4 | 223.1 | 305 |
| USP34 | 265 | 432.5 | 245.8 | 338.3 | 284.1 | 576.2 | 271.5 | 314 |
| USP37 | 287.3 | 379.1 | 203.3 | 222.6 | 176.9 | 269.8 | 254.8 | 387.4 |
| USP38 | 752.1 | 976.2 | 499.1 | 482.3 | 332.7 | 525.5 | 746.1 | 1083.9 |
| USP39 | 1636.9 | 2313.5 | 1356.5 | 1021.8 | 956.3 | 1694.4 | 1436.1 | 1986 |
| USP4 | 234.4 | 301.8 | 132.8 | 162.1 | 132.7 | 130.8 | 202.9 | 236.7 |
| USP4 | 941.5 | 1208.1 | 619.1 | 685.4 | 508.4 | 690.1 | 901.5 | 1204.9 |
| USP40 | 133.6 | 118 | 104 | 103.4 | 93.4 | 90.2 | 117.6 | 137.2 |
| USP42 | 112.8 | 131.2 | 111.7 | 104.4 | 105.4 | 93.5 | 103.1 | 126.1 |
| USP42 | 575.7 | 715.1 | 529.6 | 585.5 | 509.6 | 657.7 | 509.7 | 829.8 |
| USP43 | 133.7 | 146.7 | 98.3 | 102 | 89 | 91.5 | 130.9 | 140.7 |
| USP44 | 72.6 | 90.2 | 93.8 | 90.1 | 84.1 | 91.5 | 79.4 | 87.4 |
| USP44 | 82.2 | 97.7 | 98.2 | 95.7 | 94.3 | 99.5 | 86 | 94.6 |
| USP45 | 148.3 | 183.3 | 115.1 | 102.7 | 97.9 | 120.9 | 130.7 | 170.4 |
| USP46 | 163.6 | 215.9 | 117.8 | 104.2 | 97.6 | 100.4 | 152.5 | 201.6 |
| USP47 | 165.7 | 208.6 | 119.7 | 159.2 | 117.3 | 161.6 | 153.1 | 238.9 |
| USP48 | 291.6 | 309.4 | 177.3 | 265.7 | 249.7 | 268.7 | 233.1 | 373.5 |
| USP48 | 355.6 | 489.6 | 156.1 | 154.5 | 148.8 | 182.6 | 276.5 | 432.4 |
| USP48 | 781.9 | 1059.8 | 282.3 | 399.7 | 274.7 | 442.1 | 741.7 | 1146.7 |
| USP49 | 1177.5 | 1329.1 | 553 | 1072.5 | 965.5 | 661.9 | 1132.4 | 1662 |
| USP5 | 707.1 | 845.1 | 920.9 | 779.1 | 633.1 | 1318.3 | 639 | 1414.7 |
| USP50 | 75.3 | 92.8 | 85.2 | 79.5 | 80.4 | 85 | 80 | 81.7 |
| USP51 | 96.1 | 94.6 | 93.6 | 101.2 | 88.5 | 90.7 | 92 | 98.2 |
| USP52 | 303.1 | 339.7 | 228.9 | 262.5 | 232.9 | 391.8 | 206.2 | 317.4 |
| USP53 | 128.7 | 127.5 | 102.5 | 95.2 | 89.2 | 96 | 101.9 | 121.9 |
| USP54 | 91.8 | 94.6 | 93.6 | 92.3 | 90.4 | 92.2 | 86.4 | 95.3 |
| USP6 | 96.3 | 122.5 | 85.4 | 78.1 | 97.4 | 114.7 | 84.4 | 116 |
| USP6NL | 221.7 | 226 | 141.6 | 130.2 | 123.5 | 160.2 | 184.8 | 266 |
| USP6NL | 83.5 | 81.1 | 90.5 | 85.3 | 81.1 | 81.1 | 73.7 | 83.7 |
| USP7 | 264.6 | 391.1 | 256.4 | 180.3 | 171.6 | 189.9 | 289.7 | 350.6 |
| USP8 | 347.9 | 497.8 | 180.4 | 200.5 | 180 | 303.5 | 366.9 | 568.3 |
| USP9X | 109.2 | 117.6 | 100.5 | 98.6 | 95.7 | 91.9 | 105.8 | 120.1 |
| USP9X | 581.1 | 906.1 | 350.4 | 541.6 | 434.3 | 702.3 | 642.1 | 801.8 |
| USP9Y | 90.6 | 100.9 | 123.6 | 103.4 | 100.1 | 102.9 | 85.7 | 96.5 |
| USPL1 | 469.8 | 646 | 215 | 187.6 | 192.6 | 253.6 | 442.6 | 724.1 |
| UST | 115.1 | 146.3 | 128.7 | 96.7 | 107.5 | 123.2 | 118.1 | 161 |
| UTF1 | 91.4 | 112.2 | 99 | 82.9 | 84 | 92.2 | 95.6 | 112.7 |
| UTP11L | 2189 | 2791.8 | 1145.2 | 893.1 | 637.5 | 1004.6 | 1803.5 | 2656.6 |
| UTP14A | 1454.5 | 1954.6 | 1056.7 | 896.8 | 701.6 | 1435.7 | 1049.2 | 1746.3 |
| UTP14C | 707.4 | 925.9 | 466 | 612.2 | 503.8 | 788.6 | 668.8 | 1000 |
| UTP15 | 271.1 | 328 | 176.8 | 169.8 | 126.6 | 209.5 | 229.9 | 293.5 |
| UTP20 | 106.5 | 121.6 | 100.6 | 96.6 | 76.5 | 99.4 | 96.5 | 100.8 |

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|--------|---------|---------|--------|---------|---------|---------|---------|---------|
| UTRN | 273.1 | 314.7 | 127.6 | 117 | 115.8 | 138.3 | 261.3 | 238 |
| UTS2 | 172.9 | 201.9 | 126.5 | 112 | 107.5 | 122.1 | 150.8 | 195 |
| UTS2 | 518.3 | 706.9 | 244.8 | 265.9 | 199.6 | 304.6 | 448.9 | 581.5 |
| UTS2 | 355.5 | 499.8 | 219.3 | 200 | 158.3 | 206.1 | 344 | 462.9 |
| UTS2D | 85.7 | 98.3 | 91.7 | 95.7 | 84 | 88 | 89 | 93.5 |
| UTS2R | 101.8 | 120.9 | 99.7 | 94.3 | 84.5 | 79.1 | 90.3 | 123.1 |
| UTX | 74.2 | 94.5 | 92.1 | 89.6 | 79.6 | 78.7 | 78.2 | 88.8 |
| UTY | 100.9 | 107 | 104.1 | 92.8 | 88.9 | 91.9 | 95.9 | 112.5 |
| UTY | 171.3 | 171.7 | 97.4 | 120.5 | 114.4 | 143.9 | 143.9 | 180 |
| UTY | 94.1 | 100.4 | 90.3 | 80.1 | 78.2 | 92.7 | 95.1 | 93.4 |
| UVRAG | 342.5 | 511.1 | 228.4 | 227.1 | 209.8 | 269.3 | 303.9 | 485.2 |
| UXS1 | 133.8 | 142.8 | 97.4 | 86.1 | 90.1 | 103 | 139.4 | 158.7 |
| UXT | 4389.5 | 5379.7 | 3466 | 2898.7 | 2274.3 | 3287.4 | 3262.2 | 5864.8 |
| UXT | 106.8 | 121.4 | 92.8 | 88.7 | 81.3 | 96.5 | 105.5 | 116.8 |
| VAC14 | 102.6 | 127.3 | 111.1 | 89.8 | 95.6 | 92.6 | 116 | 126.9 |
| VAC14 | 146.3 | 176.6 | 162.8 | 133 | 114.8 | 184.3 | 130.5 | 154.3 |
| VAMP1 | 127.2 | 124 | 100.3 | 90.4 | 90.7 | 95.4 | 116.7 | 118.5 |
| VAMP1 | 107.1 | 117.7 | 89.3 | 71.7 | 76.1 | 76.4 | 103.1 | 99.3 |
| VAMP1 | 218.4 | 226.7 | 179.1 | 172.5 | 162.8 | 173.5 | 154.7 | 225.9 |
| VAMP2 | 147.8 | 205.8 | 115.4 | 129.9 | 120.6 | 148.8 | 153.3 | 172.2 |
| VAMP3 | 691.8 | 953.1 | 441.7 | 459.3 | 358.9 | 515.9 | 643.8 | 1266.1 |
| VAMP4 | 238 | 309 | 146.2 | 110.7 | 106.4 | 125.6 | 220.7 | 277.2 |
| VAMP4 | 298.5 | 348.5 | 156.7 | 124.6 | 114.1 | 162.4 | 284.8 | 498.3 |
| VAMP5 | 200 | 250.8 | 191.7 | 208.5 | 183 | 273.7 | 198 | 271.4 |
| VAMP8 | 14953.3 | 18463.1 | 12755 | 12815.3 | 12330.8 | 14674.1 | 15431.2 | 14097.9 |
| VANGL1 | 127.9 | 147.4 | 119.5 | 101.1 | 102.7 | 98 | 123 | 160.3 |
| VANGL2 | 74.6 | 95.1 | 104.1 | 92.9 | 81.2 | 92.2 | 91.6 | 100.1 |
| VAPA | 115.7 | 128.3 | 97 | 98 | 100 | 135.2 | 120.6 | 163.8 |
| VAPA | 95.7 | 100.9 | 97 | 97.4 | 82.3 | 99 | 100.2 | 124.1 |
| VAPA | 410.1 | 660.2 | 285.6 | 268.6 | 216.5 | 317.3 | 325.9 | 420.9 |
| VAPB | 93.1 | 116.2 | 86.3 | 88.6 | 84.6 | 84.8 | 77.4 | 97 |
| VAR5 | 132.6 | 156.1 | 123.9 | 142.9 | 126.2 | 127 | 134.1 | 161 |
| VAR5 | 2355.4 | 2526.8 | 2007.8 | 1353.6 | 891.3 | 1545.9 | 1881.1 | 3132.5 |
| VARSL | 304.4 | 351.4 | 282.6 | 185.3 | 158.9 | 227.2 | 238.8 | 197.1 |
| VASH1 | 346.6 | 464.9 | 335.2 | 264.5 | 193.5 | 283.3 | 243.2 | 267.2 |
| VASP | 185.9 | 280.6 | 131.6 | 122.5 | 98.6 | 112.4 | 164.9 | 277.3 |
| VASP | 91.5 | 117.8 | 113.5 | 117.1 | 99.5 | 93 | 98.8 | 129.6 |
| VAT1 | 290.8 | 355.1 | 214.3 | 207.6 | 170.6 | 256.4 | 291.7 | 410.2 |
| VAV1 | 499 | 588.5 | 304.8 | 245.8 | 248.3 | 318.2 | 461.9 | 580.4 |
| VAV2 | 163.1 | 178.5 | 116.6 | 107.1 | 104.9 | 118.7 | 164.7 | 161.7 |
| VAV3 | 150.9 | 180.9 | 125.5 | 130.2 | 112.6 | 124.9 | 130.5 | 158.8 |
| VAV3 | 701.2 | 966.4 | 405.3 | 375.7 | 338.6 | 484.2 | 606.8 | 729.4 |
| VAV3 | 2113.4 | 2894.7 | 1618.6 | 1336.1 | 1235.1 | 2192.3 | 1706.7 | 2365.3 |
| VAX1 | 93.2 | 102.1 | 86.7 | 84.2 | 75.2 | 86.3 | 91.4 | 99.2 |
| VAX2 | 98.5 | 114.6 | 105 | 102.8 | 95.5 | 96.6 | 98.1 | 114.4 |
| VBP1 | 4406.1 | 4869.6 | 2605.4 | 2727.4 | 2020.6 | 3436.2 | 4127 | 7698.8 |
| VCAM1 | 85.9 | 86.9 | 90.9 | 75.1 | 85 | 82.3 | 87.4 | 92.2 |
| VCL | 1907.9 | 2343.9 | 1281.5 | 1114 | 824.2 | 1426 | 1467.1 | 2086.7 |
| VCL | 181.9 | 227.2 | 144.1 | 135.4 | 114.1 | 145.6 | 143 | 180.2 |
| VCL | 71.7 | 80.3 | 87.1 | 88.9 | 70.3 | 79.6 | 74.2 | 75 |

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|---------|---------|---------|--------|--------|--------|--------|---------|---------|
| VCP | 1595.1 | 2022.8 | 956.4 | 838.2 | 675.6 | 824.3 | 1279.6 | 1599.7 |
| VCPIP1 | 606.8 | 754.2 | 360.6 | 356.3 | 297.9 | 586 | 569.8 | 925.2 |
| VCX | 97.1 | 113.5 | 93.6 | 111.6 | 111.8 | 127.4 | 94 | 109.6 |
| VCX2 | 81.4 | 73 | 82.2 | 87.2 | 81.3 | 92.2 | 80.6 | 70.6 |
| VCX2 | 87.9 | 104.9 | 102.9 | 88.2 | 83.5 | 100.1 | 93.3 | 85.8 |
| VCX3A | 107.3 | 108.8 | 95.6 | 97.1 | 80.8 | 88.5 | 113 | 97.4 |
| VCX3A | 139.3 | 158.8 | 93.5 | 113.7 | 107.7 | 135.3 | 125.9 | 141.3 |
| VCX-C | 93.8 | 109.9 | 116.5 | 140 | 107.7 | 146.7 | 91.2 | 97.7 |
| VCY | 103.2 | 96.7 | 81.9 | 96.7 | 83.5 | 99.8 | 90.7 | 100.9 |
| VCY1B | 77.6 | 92.1 | 91.1 | 78.3 | 71.9 | 83.3 | 77.3 | 90 |
| VDAC1 | 9182.2 | 10460.2 | 8252.6 | 5756.7 | 3760 | 6329.3 | 6598.3 | 14680.1 |
| VDAC2 | 110.9 | 111.6 | 78.3 | 82.8 | 78.4 | 81.1 | 97.3 | 107.4 |
| VDAC3 | 13446.7 | 17073.3 | 10706 | 8633.8 | 6403.3 | 8757 | 12720.2 | 16541.4 |
| VDP | 1860.5 | 2378.5 | 767.6 | 651.1 | 591.2 | 1133.4 | 1526.8 | 2006.1 |
| VDR | 85.4 | 106.9 | 94 | 89 | 79.9 | 83.6 | 96.6 | 104.4 |
| VDR | 121.3 | 184.2 | 143.2 | 110.9 | 103.9 | 123.9 | 136.7 | 191.6 |
| VEGF | 109.4 | 153.9 | 104.1 | 96.6 | 105 | 103.3 | 119.5 | 116.4 |
| VEGF | 86.7 | 99.2 | 98.3 | 80.8 | 84.7 | 79.5 | 90.4 | 81.4 |
| VEGFA | 196.8 | 231.3 | 174.4 | 150.8 | 191.2 | 197 | 191 | 155.9 |
| VEGFB | 2171.3 | 2916.1 | 1431.2 | 1665.2 | 1442 | 1372.4 | 1870.1 | 1525.9 |
| VEGFB | 90.7 | 99.9 | 100 | 89.3 | 86.2 | 90.7 | 91.2 | 94.6 |
| VEGFB | 234.6 | 291.3 | 129.2 | 122.5 | 108.9 | 153.2 | 216.7 | 337.6 |
| VEGFC | 72.1 | 84.7 | 90.1 | 79.1 | 85.4 | 78.2 | 76.1 | 88 |
| VENTX | 127.9 | 139.3 | 94.3 | 89.9 | 79.8 | 84.4 | 113.5 | 122.5 |
| VENTXP7 | 92.3 | 106.5 | 91.7 | 86.7 | 80.3 | 84.1 | 111.9 | 109.2 |
| VEPH1 | 85.7 | 102.1 | 97 | 85.3 | 78.3 | 89.7 | 86.8 | 84 |
| VEZT | 82.1 | 87.7 | 101.7 | 91.7 | 99.3 | 87.3 | 73.8 | 97.4 |
| VGCNL1 | 90.9 | 99.9 | 97.9 | 90 | 99.3 | 91.3 | 96.9 | 92.6 |
| VGf | 199.8 | 226.9 | 146.4 | 102.2 | 97.4 | 106.7 | 177.9 | 212.1 |
| VGLL1 | 88.1 | 100.9 | 107.4 | 102.9 | 98 | 102 | 98.4 | 85.6 |
| VGLL2 | 95.1 | 106.4 | 102.2 | 96.4 | 80.4 | 92.5 | 94.3 | 114.6 |
| VGLL2 | 92.7 | 112 | 102.3 | 87.9 | 91.9 | 89 | 101.2 | 111.6 |
| VGLL3 | 82.3 | 91.9 | 98.5 | 83.2 | 78.5 | 82.7 | 79.2 | 87.8 |
| VGLL4 | 1015.3 | 1314.8 | 752.2 | 882.5 | 837.4 | 966.8 | 833.6 | 905.6 |
| VHL | 908.3 | 1082.5 | 286.1 | 323.4 | 241.4 | 242.1 | 829.5 | 1165.8 |
| VHL | 2298.2 | 2578.2 | 1801.4 | 1806.3 | 1465.7 | 1335.2 | 2101.9 | 3204 |
| VHL | 606.1 | 720 | 269.4 | 220.4 | 182.3 | 167.3 | 416.6 | 548.7 |
| VHLL | 90.5 | 103.1 | 95.6 | 84.6 | 85 | 87.1 | 86.9 | 96.2 |
| VIL1 | 104.5 | 122.7 | 81.1 | 75.9 | 75.6 | 92.1 | 103.2 | 126.8 |
| VIL2 | 4761.3 | 6591.5 | 4439.7 | 4385.6 | 4032 | 5949.8 | 4445.2 | 4496.8 |
| VILL | 112.4 | 128.3 | 122.6 | 130.1 | 121.8 | 137.8 | 96.9 | 111.1 |
| VIM | 6109.9 | 8096.7 | 2029.8 | 974.8 | 580.6 | 903.8 | 4671.4 | 8859.8 |
| VIP | 88.5 | 83.8 | 90.4 | 88 | 77.2 | 100.6 | 91.2 | 88.2 |
| VIP | 89.2 | 105.6 | 103.6 | 88 | 87.5 | 93.2 | 91.6 | 105.1 |
| VIPR1 | 202.6 | 238.8 | 207.9 | 234.9 | 233.5 | 215.5 | 153.7 | 183.5 |
| VIPR2 | 94.6 | 117.7 | 94.4 | 81.3 | 84.3 | 91.2 | 109.6 | 114.3 |
| VISA | 114.2 | 148.3 | 99.9 | 94 | 92.9 | 103 | 113 | 154.6 |
| VIT | 118.8 | 148.2 | 93.6 | 96.9 | 108.3 | 112.4 | 116.4 | 121.5 |
| VKORC1 | 6083 | 7194 | 4799 | 4195.9 | 3345.8 | 3760.4 | 6042.2 | 7437.8 |
| VKORC1 | 780.8 | 1039.5 | 293.5 | 280.8 | 262.9 | 384.8 | 813.5 | 1072.4 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| VKORC1L1 | 1072.6 | 1307.2 | 832.2 | 634.1 | 474.4 | 617.7 | 1118.6 | 1345.1 |
| VLDLR | 801.7 | 1017.5 | 459.4 | 477.4 | 419.1 | 783.8 | 687.4 | 1075.9 |
| VLDLR | 75.8 | 73.2 | 96.4 | 92.3 | 86.5 | 79.1 | 72 | 79.2 |
| VMAC | 140.3 | 126.8 | 112.8 | 113.1 | 100.5 | 109.9 | 121.7 | 117.2 |
| VMD2 | 289.5 | 284.7 | 223.4 | 174.4 | 151.2 | 222.2 | 193.5 | 267.8 |
| VMD2L1 | 104.9 | 117.9 | 88.9 | 74.7 | 75.4 | 91.3 | 104.9 | 118.5 |
| VMD2L2 | 89 | 95.5 | 95.2 | 91.4 | 88.3 | 84.2 | 86.2 | 89.4 |
| VMD2L3 | 91.1 | 95.1 | 96.6 | 90.7 | 85.4 | 99.5 | 90.8 | 104.8 |
| VMD2L3 | 102.7 | 97.4 | 94.2 | 89 | 78.5 | 92.2 | 87.9 | 99.2 |
| VMO1 | 117.9 | 126.1 | 104.1 | 93.5 | 88.6 | 91.1 | 119 | 115.9 |
| VMP | 90.3 | 92.1 | 96.1 | 88.3 | 83.2 | 85.8 | 79 | 86.1 |
| VN1R1 | 90.1 | 94.7 | 85.5 | 78.8 | 86.8 | 80.4 | 82 | 93.4 |
| VN1R2 | 96.8 | 103.5 | 113.4 | 99.8 | 83.1 | 96 | 106.3 | 105.6 |
| VN1R4 | 94 | 94.5 | 98.8 | 92.4 | 88.5 | 100 | 92.7 | 107.1 |
| VN1R5 | 114 | 121.9 | 94.9 | 107.1 | 85.4 | 87.4 | 111.3 | 128.5 |
| VNN1 | 85.2 | 100.9 | 97 | 94.3 | 98.6 | 97.1 | 85 | 97.7 |
| VNN2 | 117.3 | 125.7 | 107.7 | 108.3 | 89 | 98.5 | 110.1 | 118.3 |
| VNN2 | 77.8 | 90.6 | 94.2 | 98.4 | 80.3 | 92.5 | 77.5 | 83.7 |
| VNN2 | 76.3 | 85.8 | 91.3 | 73.3 | 85.7 | 86.7 | 85.1 | 85.4 |
| VNN3 | 92.9 | 98.3 | 95.4 | 84.5 | 89.5 | 98.2 | 84.3 | 94.6 |
| VNN3 | 91.9 | 89.9 | 96.6 | 90.9 | 89.2 | 90.9 | 84.9 | 93.2 |
| VNN3 | 96.8 | 106.5 | 101.8 | 80 | 91 | 84.5 | 98.9 | 104.7 |
| VPRBP | 198.2 | 273.1 | 163.9 | 159.1 | 143.2 | 169.1 | 175.5 | 204.2 |
| VPREB1 | 84.8 | 92.7 | 94.9 | 91.4 | 89.3 | 88.2 | 86.9 | 80.8 |
| VPREB3 | 95.6 | 88.6 | 110.1 | 87.2 | 91.6 | 97.7 | 93.3 | 117.3 |
| VPS11 | 224.9 | 298 | 145.6 | 139.1 | 132.5 | 140.9 | 201 | 211.3 |
| VPS13A | 78.5 | 88.3 | 93.2 | 88.7 | 76.2 | 88.9 | 80.9 | 77.4 |
| VPS13A | 184.3 | 228.9 | 141.3 | 136 | 141.5 | 162 | 141.3 | 168.2 |
| VPS13A | 101.4 | 123.4 | 99.6 | 92.4 | 102.4 | 107.6 | 115 | 119.7 |
| VPS13A | 164.7 | 214.5 | 113.6 | 148.1 | 111.8 | 156.5 | 154.4 | 182.5 |
| VPS13B | 85.8 | 88.9 | 82.8 | 82 | 81.5 | 78.2 | 88.4 | 93.9 |
| VPS13B | 150.3 | 145 | 118.1 | 125.6 | 126.8 | 101.9 | 122.8 | 158.1 |
| VPS13B | 93.8 | 103.8 | 99.7 | 87.9 | 87.5 | 82.2 | 102.5 | 94.5 |
| VPS13B | 119.7 | 124 | 99.2 | 95.6 | 97.4 | 84.7 | 98.4 | 123.1 |
| VPS13B | 113.5 | 119.2 | 101.3 | 95.3 | 93.5 | 99.8 | 96.7 | 119.2 |
| VPS13B | 156.2 | 159.3 | 117.5 | 132 | 112.8 | 102.5 | 129.4 | 173.6 |
| VPS13C | 112.3 | 162.4 | 105.6 | 140.2 | 133 | 175.9 | 111.2 | 127.7 |
| VPS13C | 161.7 | 216.2 | 110.2 | 169.2 | 168 | 120.4 | 140.8 | 166.8 |
| VPS13D | 83.1 | 90.8 | 88.5 | 103.8 | 85.9 | 92 | 88.3 | 83.2 |
| VPS13D | 89.3 | 96.6 | 87.6 | 86.2 | 78 | 84.7 | 96.4 | 117.7 |
| VPS13D | 100.1 | 115.6 | 95.1 | 101.8 | 95 | 100 | 99.3 | 106.5 |
| VPS16 | 139.6 | 158.4 | 105.3 | 101.5 | 92.8 | 110.1 | 125 | 163.3 |
| VPS16 | 762.3 | 913.4 | 406.2 | 423.5 | 443.4 | 490.8 | 573.5 | 441.7 |
| VPS16 | 114.9 | 142.2 | 98.4 | 83.8 | 89.4 | 93.7 | 115.5 | 121.1 |
| VPS18 | 225.3 | 293 | 279.9 | 274.5 | 209.5 | 324.2 | 185.6 | 255.8 |
| VPS24 | 1608.7 | 2001.4 | 996.3 | 661.5 | 588.3 | 856.7 | 1482.9 | 1384 |
| VPS24 | 100.5 | 131.2 | 98.7 | 87.5 | 93 | 95.5 | 94.2 | 112.1 |
| VPS25 | 1044.8 | 1372.9 | 593.2 | 535.2 | 476.4 | 785.4 | 784.3 | 1021.7 |
| VPS26 | 288.6 | 323.8 | 140.7 | 156.2 | 139 | 220.8 | 248.2 | 438.1 |
| VPS26A | 2633.9 | 3341.8 | 1401.3 | 1411.4 | 1042.6 | 1799.2 | 2225.1 | 3268.4 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VPS26B | 569.2 | 627.3 | 514.6 | 350.9 | 320 | 464.1 | 450.3 | 760.5 |
| VPS28 | 1495.7 | 1978 | 1256.1 | 820.1 | 689.3 | 1111 | 1392.4 | 2255.8 |
| VPS28 | 1195.2 | 1510.3 | 845.9 | 497 | 408.5 | 595.8 | 1064.1 | 1341.6 |
| VPS29 | 5304.8 | 6172 | 3022.1 | 3349 | 2435.5 | 4073.2 | 4573.8 | 5344.1 |
| VPS33A | 241.8 | 318.5 | 227 | 221.7 | 180.3 | 207.3 | 218.2 | 287.7 |
| VPS33B | 470.4 | 607.7 | 374.1 | 374.6 | 305 | 484 | 377.9 | 571.2 |
| VPS35 | 2887.5 | 3431.8 | 1403.3 | 1440.8 | 1143.4 | 1928.6 | 2334.1 | 3211.7 |
| VPS36 | 900.4 | 1067.8 | 444.2 | 583.6 | 475.5 | 966.3 | 683.8 | 1014.6 |
| VPS37A | 697.7 | 812.4 | 306.6 | 267.9 | 244.4 | 347.4 | 640.6 | 1100.3 |
| VPS37B | 252.1 | 337.9 | 307.1 | 267.7 | 215.2 | 319.4 | 254.5 | 620.5 |
| VPS37C | 3417.6 | 3907.1 | 2493.4 | 2337.8 | 1781.6 | 2087.4 | 2549.1 | 3181.6 |
| VPS37D | 296.2 | 370.5 | 157.3 | 141.3 | 127.8 | 151.4 | 286 | 331.1 |
| VPS39 | 158 | 209.2 | 179.6 | 206 | 177.1 | 266.3 | 163.9 | 197.3 |
| VPS41 | 273.3 | 334.2 | 117.6 | 175.4 | 156.2 | 116.5 | 204.9 | 273.2 |
| VPS41 | 368.9 | 416.2 | 221.5 | 293.6 | 250.7 | 217.2 | 299.9 | 301.5 |
| VPS41 | 1417.2 | 1744 | 1204.3 | 1551.1 | 1083.4 | 1688.9 | 1085.6 | 1619 |
| VPS41 | 101 | 114.3 | 103.6 | 95 | 108.3 | 107.2 | 110.3 | 154.6 |
| VPS45A | 649 | 870.5 | 539 | 429 | 395.9 | 693.5 | 463.8 | 736.1 |
| VPS4A | 260.6 | 345.9 | 245.5 | 185.4 | 157.4 | 233.4 | 237.7 | 481.2 |
| VPS4B | 1386.1 | 1797.6 | 1198.5 | 1367.3 | 1280.2 | 2499.6 | 1231.5 | 2655.5 |
| VPS52 | 544.2 | 654.2 | 584.5 | 566.6 | 488.3 | 745.1 | 425.6 | 863.1 |
| VPS53 | 97.3 | 110.1 | 97.9 | 88 | 91.9 | 89.9 | 101.2 | 105.9 |
| VPS54 | 183.7 | 211.4 | 131.7 | 115.1 | 102.3 | 155.3 | 154.7 | 241.9 |
| VPS54 | 237.7 | 293.6 | 203.1 | 188 | 156.4 | 246.9 | 237.7 | 392 |
| VPS72 | 678.7 | 808.8 | 464.2 | 298.7 | 247.9 | 343.3 | 564 | 737 |
| VPS8 | 189.1 | 262.1 | 224.7 | 227.4 | 251.8 | 294.5 | 185.1 | 280.1 |
| VPS8 | 92.4 | 109.3 | 81.5 | 83.8 | 83.6 | 94.9 | 99.5 | 111 |
| VRK1 | 1454.5 | 1721.9 | 521.2 | 368.5 | 314.8 | 487.1 | 1320.3 | 2568.4 |
| VRK2 | 460.6 | 528.3 | 183.8 | 169.1 | 125.9 | 212.3 | 352.7 | 632.4 |
| VRK3 | 295.4 | 321.9 | 208.7 | 195.1 | 182.4 | 212.2 | 315.2 | 376 |
| VRK3 | 260 | 405.3 | 166.1 | 172.7 | 152.1 | 141.8 | 222.2 | 307.9 |
| VRK3 | 827.3 | 1092.3 | 595 | 442.3 | 407 | 406.5 | 816.8 | 907.6 |
| VSIG1 | 86.4 | 103.7 | 88.6 | 81.5 | 80.3 | 86.3 | 87.1 | 101.1 |
| VSIG2 | 90.1 | 114.4 | 96.5 | 91.8 | 92.3 | 83.1 | 102.4 | 102.7 |
| VSIG4 | 102.1 | 120.5 | 103.2 | 83.2 | 84.8 | 96.7 | 99.2 | 107.4 |
| VSIG8 | 92.2 | 99.5 | 104.7 | 97.7 | 92 | 86.3 | 94.4 | 98.4 |
| VSIG9 | 107.1 | 122.9 | 86.1 | 91.5 | 93.8 | 90.7 | 93.7 | 114.4 |
| VSNL1 | 83 | 105.2 | 93.5 | 81.8 | 78 | 89.9 | 92.7 | 116.9 |
| VSX1 | 77.4 | 90 | 93.9 | 100.3 | 81.7 | 85.2 | 80 | 83.6 |
| VSX1 | 107.2 | 106.5 | 101.9 | 85.4 | 85 | 101.4 | 104.9 | 107.2 |
| VSX1 | 80.1 | 75.8 | 77.7 | 84.4 | 71.5 | 83.3 | 77.9 | 83.1 |
| VTCN1 | 82.5 | 89.8 | 85.2 | 80.7 | 81.4 | 75 | 83.5 | 96.7 |
| VTI1B | 489.9 | 696 | 166.4 | 160.2 | 131.9 | 149.6 | 430.2 | 667.1 |
| VTN | 81.8 | 93.9 | 83 | 81.7 | 78.3 | 76.2 | 81.5 | 76.2 |
| VWA1 | 97.5 | 99.1 | 94.4 | 78.6 | 83.8 | 74.6 | 99.1 | 103.8 |
| VWA1 | 115.1 | 138.1 | 113.6 | 108.4 | 104.3 | 107.8 | 112.7 | 113.2 |
| VWA2 | 81 | 90.2 | 99.3 | 82.9 | 81.7 | 84.4 | 78.4 | 90.5 |
| VWCE | 98.4 | 108.2 | 102.8 | 95.3 | 81.1 | 89.2 | 102 | 116.9 |
| VWF | 83.1 | 93.6 | 89.1 | 95 | 89.8 | 92.7 | 98.7 | 132 |
| WAC | 1226.2 | 1692.9 | 705.1 | 632.6 | 543.8 | 1071.1 | 1030.8 | 1809.1 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| WAC | 173.4 | 211.5 | 100.8 | 96.3 | 93.5 | 85.8 | 122.4 | 157.1 |
| WAC | 2175.1 | 2654.2 | 1505.4 | 1346.4 | 1149.2 | 2206.5 | 2281.8 | 4550.2 |
| WARS | 1099.8 | 1458.2 | 1000.1 | 678 | 468.1 | 930.7 | 1118.8 | 1822 |
| WARS | 1816.3 | 2264.5 | 1287.3 | 1079.6 | 668.1 | 1146.3 | 1929.8 | 2598.2 |
| WARS2 | 113.3 | 130.8 | 107.3 | 102.1 | 92.5 | 97.9 | 98 | 142.1 |
| WAS | 5709 | 6644.7 | 3946.3 | 3412.5 | 2601.5 | 3626.8 | 4622.7 | 6581.2 |
| WASF1 | 84.1 | 99.1 | 98.1 | 93.4 | 88.5 | 94.8 | 102.4 | 121.4 |
| WASF1 | 121.7 | 139.9 | 115.3 | 95.2 | 104.5 | 117.9 | 128.8 | 136 |
| WASF2 | 197.4 | 277.3 | 244.3 | 284.5 | 299.8 | 475.5 | 211.8 | 332 |
| WASF3 | 89.9 | 86.5 | 110.9 | 99.1 | 88.9 | 91.4 | 86 | 102.8 |
| WASL | 383.3 | 420.7 | 324.3 | 441.4 | 352.2 | 573.9 | 351.7 | 530.3 |
| WASPIP | 566.6 | 665.3 | 385.1 | 658.6 | 507.7 | 875.9 | 468.6 | 911.4 |
| WBP1 | 273.4 | 322.3 | 150.7 | 142.8 | 141.2 | 122.7 | 251.4 | 324.9 |
| WBP11 | 1289.9 | 1634 | 1356.9 | 1498.8 | 1164.7 | 1886 | 984.8 | 2841.4 |
| WBP2 | 3211.4 | 3636.7 | 3233.9 | 3727 | 2944.4 | 3606.7 | 3973.6 | 9506 |
| WBP4 | 412.2 | 482.8 | 306.6 | 312.1 | 287.5 | 562.9 | 369.9 | 778.8 |
| WBP5 | 150.7 | 167.2 | 86.7 | 90.9 | 83.9 | 98.1 | 152.6 | 218.8 |
| WBSCR14 | 105.4 | 117.7 | 118.3 | 95.5 | 100.6 | 107.7 | 108.4 | 124.4 |
| WBSCR16 | 267.7 | 370.2 | 161.9 | 115.3 | 112.8 | 96.6 | 255.1 | 327.3 |
| WBSCR17 | 84.7 | 94 | 101.2 | 98.3 | 94.1 | 91.5 | 85.3 | 79.8 |
| WBSCR18 | 255.8 | 339.7 | 199 | 275.2 | 307.6 | 273 | 231.4 | 393.4 |
| WBSCR19 | 83.2 | 99.7 | 100.8 | 89.9 | 85.8 | 88.6 | 84.1 | 93.3 |
| WBSCR19 | 73.5 | 86.8 | 88.2 | 83.7 | 96.4 | 89.1 | 80 | 87.4 |
| WBSCR22 | 1976.7 | 2634.1 | 1520.7 | 1274 | 1067.3 | 1678.3 | 2049.2 | 2129.4 |
| WBSCR23 | 90 | 99.1 | 90.6 | 98.3 | 80.9 | 79.7 | 97.8 | 104.3 |
| WBSCR27 | 105.7 | 132.9 | 105 | 109.2 | 97.2 | 103.6 | 103.9 | 114.1 |
| WBSCR28 | 89.7 | 103.6 | 99.9 | 84.5 | 88 | 81.9 | 90.9 | 97 |
| WDFY1 | 3518.4 | 4599.3 | 2199.2 | 2364.9 | 1769.5 | 3858.4 | 2626.2 | 3105.4 |
| WDFY2 | 581.8 | 774.2 | 494.1 | 660.3 | 585.2 | 849.8 | 387 | 457.9 |
| WDFY3 | 134.7 | 166.2 | 104.8 | 101.3 | 102.1 | 98.8 | 136.1 | 154.3 |
| WDFY3 | 143.2 | 176.2 | 102.8 | 103.7 | 91.5 | 97.5 | 135.5 | 182 |
| WDFY3 | 78.5 | 83.5 | 83.8 | 96.2 | 90.2 | 87.8 | 85.4 | 86.9 |
| WDHD1 | 121.3 | 132.6 | 110.4 | 103.7 | 85.9 | 92.9 | 117.4 | 142.7 |
| WDHD1 | 290 | 358.2 | 177.5 | 180.1 | 135.1 | 250.6 | 234.4 | 329 |
| WDHD1 | 252.7 | 300.5 | 136.1 | 127.9 | 121.5 | 111.3 | 177.8 | 226.7 |
| WDR1 | 656.2 | 934.5 | 347.5 | 341.8 | 304.1 | 212.7 | 524.3 | 767 |
| WDR1 | 7676 | 8781.1 | 6088.5 | 5759.7 | 4088.4 | 7262.5 | 6080 | 9357.3 |
| WDR12 | 2015 | 2488.1 | 972.1 | 947 | 527 | 1174.1 | 1563 | 2594.5 |
| WDR13 | 451.4 | 557.1 | 350.6 | 276.5 | 261.8 | 340.1 | 445.5 | 543.4 |
| WDR16 | 101.3 | 126 | 84.8 | 85.2 | 82.7 | 83.4 | 95.6 | 110.8 |
| WDR16 | 109.5 | 122.4 | 91.3 | 89.5 | 83.6 | 92.9 | 116.7 | 136.7 |
| WDR17 | 109.6 | 112.4 | 98.3 | 93.3 | 84.7 | 91.8 | 125.9 | 118.7 |
| WDR17 | 96.4 | 118.2 | 104.5 | 101.5 | 80.7 | 83.3 | 95.2 | 104.8 |
| WDR18 | 3051.8 | 3784.6 | 2014.6 | 1108.3 | 861 | 895.8 | 2585.5 | 2541.8 |
| WDR19 | 223.7 | 275.4 | 194.2 | 194.4 | 198.4 | 266.4 | 181.7 | 238.7 |
| WDR20 | 361 | 447.7 | 271.8 | 249.1 | 220.6 | 273.9 | 389.5 | 541.9 |
| WDR20 | 273.6 | 382.6 | 182.5 | 152.1 | 159.9 | 202.3 | 261 | 323.9 |
| WDR20 | 191.8 | 248.6 | 136.5 | 116.1 | 110.5 | 124.4 | 188.4 | 217.5 |
| WDR21A | 400.4 | 473.2 | 339.1 | 296.8 | 218.1 | 404.5 | 288.6 | 460.5 |
| WDR21C | 142.3 | 139 | 101.4 | 97.3 | 104.6 | 97.3 | 119.5 | 148.3 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| WDR22 | 306.9 | 375.1 | 231.5 | 246.3 | 182.9 | 261.5 | 226.2 | 287.6 |
| WDR23 | 172 | 196.4 | 126.5 | 112.3 | 101.1 | 84.5 | 150.3 | 177.2 |
| WDR23 | 321.8 | 327.2 | 226.8 | 309.4 | 267.2 | 276.4 | 241.6 | 281.3 |
| WDR24 | 109.9 | 131.1 | 143.4 | 130.7 | 119.2 | 169.6 | 99.4 | 120.7 |
| WDR25 | 167.7 | 223.5 | 130.6 | 101 | 88.5 | 94.7 | 156.1 | 178.4 |
| WDR26 | 286.1 | 353.6 | 185 | 228.2 | 229.6 | 342.6 | 267.8 | 496.5 |
| WDR27 | 194.5 | 230.1 | 227.8 | 253.2 | 255.1 | 352.5 | 139.8 | 193 |
| WDR3 | 135.2 | 185.8 | 136.5 | 108.8 | 101.8 | 111.5 | 130 | 128.8 |
| WDR31 | 100.4 | 125.9 | 112.1 | 95.2 | 92.4 | 94.4 | 102.6 | 106.8 |
| WDR33 | 134.7 | 151.5 | 121.8 | 202.8 | 186.8 | 276.4 | 113.8 | 117.1 |
| WDR33 | 1532.7 | 2086.1 | 1056.8 | 1096.1 | 840.4 | 1467.6 | 1172.4 | 1488.1 |
| WDR33 | 364.4 | 426.6 | 132.7 | 120.9 | 110.7 | 133.5 | 290.8 | 433 |
| WDR33 | 110.4 | 131.9 | 127.1 | 134.8 | 111.2 | 155.2 | 108.4 | 161.7 |
| WDR34 | 436.8 | 578.1 | 342.4 | 229.1 | 179 | 263.8 | 342.8 | 622.1 |
| WDR35 | 101.1 | 116.8 | 106.7 | 95.2 | 99.5 | 96.6 | 100.4 | 110.4 |
| WDR36 | 512.7 | 768.4 | 511.5 | 652.4 | 437.1 | 726.8 | 432.4 | 673.8 |
| WDR37 | 536.9 | 655.6 | 546.2 | 550.3 | 479.6 | 621.6 | 468 | 978.3 |
| WDR4 | 2534.3 | 3049.5 | 1827.5 | 1660.8 | 1111.4 | 1532 | 1809.2 | 2216.3 |
| WDR4 | 198.5 | 272.4 | 130.6 | 114.4 | 118.3 | 132.9 | 176.1 | 205 |
| WDR4 | 148.3 | 177 | 126 | 124.7 | 112.7 | 123.3 | 129.7 | 175.4 |
| WDR40A | 3308.4 | 4017 | 1674.6 | 1542.4 | 1161.4 | 1747.1 | 2454.9 | 3820.6 |
| WDR40B | 383.1 | 491 | 261.4 | 249.2 | 195.7 | 275.6 | 253.7 | 342.8 |
| WDR41 | 1327.7 | 1717.4 | 615.7 | 459.6 | 376.9 | 485.7 | 1166.4 | 1101.6 |
| WDR42B | 74.9 | 85.4 | 91.2 | 83.6 | 84.3 | 88.2 | 78.6 | 75.8 |
| WDR44 | 106.2 | 110.7 | 89.8 | 98.5 | 91.6 | 102.4 | 109.9 | 114.2 |
| WDR45 | 159.5 | 191.6 | 171.9 | 177.1 | 205.6 | 243.7 | 162.4 | 261.1 |
| WDR45 | 120.9 | 153.9 | 105.7 | 96.4 | 88.7 | 94.9 | 128.3 | 138.1 |
| WDR45 | 178 | 193.7 | 104.8 | 104.2 | 95.2 | 99.7 | 161.6 | 168.6 |
| WDR45L | 467.8 | 535.3 | 356 | 255.7 | 264.1 | 299.8 | 390.4 | 527.3 |
| WDR46 | 1062 | 1249.5 | 946.3 | 1064.2 | 858.5 | 1453.6 | 734 | 990.1 |
| WDR47 | 90.3 | 84.5 | 92.8 | 84 | 81.5 | 91.5 | 89.2 | 97.4 |
| WDR48 | 388.1 | 482.5 | 315.1 | 354.2 | 310.3 | 431.3 | 326.6 | 389.4 |
| WDR49 | 319.1 | 377.2 | 213.6 | 222 | 227.3 | 302.6 | 255 | 334.1 |
| WDR5 | 255.4 | 308.5 | 145.9 | 112.2 | 99.9 | 100 | 198 | 254.2 |
| WDR5 | 785.7 | 900.4 | 1061.8 | 605.9 | 485.9 | 935.3 | 692.2 | 1441.4 |
| WDR50 | 1001.5 | 1305.3 | 392.5 | 260.2 | 286.3 | 546.8 | 699.9 | 1196.6 |
| WDR51A | 2412.7 | 3451.1 | 1853.6 | 1309.6 | 1140.6 | 1239.8 | 1932 | 1693.1 |
| WDR51B | 299.5 | 354.5 | 107.2 | 120.3 | 108.5 | 155.3 | 262.8 | 374.8 |
| WDR52 | 217.7 | 274 | 121.8 | 105.5 | 107.9 | 118.1 | 195.1 | 240.3 |
| WDR53 | 432.5 | 529.5 | 228.7 | 237.7 | 208.7 | 280.3 | 353.4 | 448.2 |
| WDR54 | 2231.2 | 2858.3 | 1749.4 | 1086 | 943.8 | 1193.4 | 2027.8 | 2108.3 |
| WDR55 | 491.3 | 629.5 | 273.8 | 328.1 | 255.4 | 413.2 | 360.2 | 595.5 |
| WDR57 | 2179.5 | 2850.3 | 1859.1 | 1629.5 | 1365.9 | 2477.8 | 1734.2 | 2016.1 |
| WDR58 | 711.4 | 982.8 | 635.2 | 403.1 | 346.9 | 536.5 | 559.4 | 688.6 |
| WDR59 | 701.8 | 816.6 | 544.4 | 652.2 | 541.8 | 751.2 | 601.1 | 879.8 |
| WDR5B | 145.9 | 142.4 | 132.1 | 154.4 | 134.9 | 158.7 | 102.2 | 144.8 |
| WDR6 | 1295.2 | 1275.5 | 1815.9 | 1440.2 | 1517.3 | 2355.8 | 898 | 1118 |
| WDR60 | 304.8 | 359.1 | 202.6 | 287.5 | 249.1 | 385.6 | 256.1 | 334.1 |
| WDR61 | 3557.6 | 4329.2 | 3100.4 | 3291.5 | 2478.3 | 3971.8 | 3033.9 | 4718.9 |
| WDR62 | 110.2 | 136.9 | 134.6 | 126.4 | 137.8 | 168.9 | 117.7 | 163.3 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| WDR63 | 106.2 | 146.2 | 92.1 | 86.4 | 78.3 | 94 | 113.2 | 119.4 |
| WDR64 | 103.1 | 118.6 | 98.1 | 88.7 | 91.6 | 95.7 | 106.3 | 108.3 |
| WDR65 | 119.7 | 143.8 | 84.1 | 88.3 | 81 | 88.2 | 109.5 | 136.2 |
| WDR66 | 88.8 | 104.2 | 100.9 | 94 | 88.6 | 88.5 | 85.7 | 92.2 |
| WDR67 | 1041.1 | 1321.7 | 479.2 | 323.6 | 296 | 398 | 832.6 | 1019 |
| WDR68 | 1971.8 | 2728.1 | 1693.8 | 2362.1 | 1598.9 | 3170.9 | 1849.7 | 4040.5 |
| WDR69 | 75.7 | 83.4 | 81.4 | 85 | 74.2 | 76.7 | 79 | 87.2 |
| WDR7 | 92 | 101.5 | 104.4 | 92.3 | 91.8 | 82.7 | 99.1 | 92.6 |
| WDR7 | 234.8 | 333 | 209.9 | 237.2 | 209.2 | 354.7 | 206 | 282 |
| WDR70 | 1015.1 | 1118.8 | 730 | 1072.1 | 906.3 | 1773.3 | 760.2 | 1266.6 |
| WDR71 | 1316.8 | 1858 | 786.8 | 483.1 | 356.5 | 514.7 | 1073.9 | 1574.6 |
| WDR72 | 82.7 | 87.2 | 92.6 | 79 | 90.4 | 88.9 | 79.3 | 87.3 |
| WDR73 | 447.8 | 492.8 | 343.3 | 318.1 | 297.1 | 238.4 | 393.7 | 511.3 |
| WDR74 | 1154.3 | 1521.4 | 758.7 | 468.8 | 368.4 | 469.5 | 1047.1 | 795.4 |
| WDR74 | 322.1 | 332.7 | 184.2 | 292.8 | 292.3 | 188.9 | 287.2 | 323.1 |
| WDR74 | 560.1 | 755.5 | 277.9 | 185.5 | 131.1 | 192 | 445.2 | 571.9 |
| WDR75 | 2311.3 | 2598.8 | 1461.4 | 1323.5 | 1025.5 | 2075 | 1908.3 | 2764.8 |
| WDR77 | 831.7 | 1007.8 | 657.2 | 366.2 | 281.4 | 435.6 | 619.8 | 843.8 |
| WDR78 | 82.7 | 97.5 | 99.1 | 90.7 | 86.7 | 82.8 | 83.5 | 96.7 |
| WDR78 | 106.2 | 122.4 | 87.2 | 83.4 | 84.3 | 81.5 | 108.9 | 126.2 |
| WDR78 | 90 | 100.5 | 92 | 90.7 | 86.2 | 84.2 | 91.5 | 98.8 |
| WDR79 | 331.1 | 340 | 183.7 | 168.4 | 153.1 | 136.6 | 270.3 | 247.6 |
| WDR8 | 809.9 | 975.9 | 838.6 | 619.4 | 559.2 | 816.4 | 718.6 | 1301.3 |
| WDR81 | 110.3 | 139.5 | 96.1 | 109.5 | 105.1 | 120.1 | 101.8 | 138.3 |
| WDRPUH | 96.3 | 99.5 | 96.5 | 93.9 | 93 | 89.6 | 95.9 | 106.3 |
| WDSOF1 | 211.6 | 258.8 | 120.2 | 102.5 | 93.7 | 103.2 | 183.1 | 357.5 |
| WDSUB1 | 823.8 | 984.5 | 374.5 | 532.8 | 396.2 | 637.3 | 805.2 | 1217.8 |
| WDTC1 | 108 | 130.2 | 87.4 | 78.1 | 86.3 | 81.8 | 99.7 | 134.3 |
| WEE1 | 666.7 | 879.6 | 438.4 | 353.9 | 303.6 | 461.1 | 494.1 | 967.9 |
| WFDC1 | 86.3 | 89.4 | 98.8 | 98.8 | 87.6 | 94.6 | 89.5 | 107.2 |
| WFDC10A | 90.6 | 90.7 | 116.5 | 110.4 | 103.3 | 101.2 | 86.6 | 83.2 |
| WFDC10B | 76.7 | 99 | 89.5 | 78.8 | 77.1 | 75.5 | 84.1 | 83.7 |
| WFDC10B | 200.7 | 218.9 | 93.5 | 90.7 | 95.2 | 93.8 | 194 | 189.2 |
| WFDC11 | 74.2 | 100 | 89.7 | 89.8 | 95.5 | 92.3 | 87.3 | 88.6 |
| WFDC12 | 71.8 | 84.5 | 91 | 98.9 | 87.1 | 91.3 | 82.3 | 86.5 |
| WFDC13 | 90.9 | 115.5 | 90.3 | 69.7 | 75.1 | 74.6 | 99.6 | 116.7 |
| WFDC2 | 84.8 | 100.9 | 90.5 | 81.1 | 79.9 | 82 | 91.7 | 95.9 |
| WFDC2 | 143.3 | 141.9 | 105.2 | 97.4 | 94.2 | 104.4 | 119.6 | 152.1 |
| WFDC3 | 112.4 | 123.5 | 99.6 | 97.9 | 88.2 | 86.1 | 109.2 | 119.3 |
| WFDC3 | 145.9 | 175.5 | 111.3 | 112.8 | 116.5 | 115.9 | 142.4 | 168.4 |
| WFDC3 | 99.4 | 111.2 | 87.3 | 93.9 | 85.3 | 88.6 | 99.8 | 109 |
| WFDC5 | 81.4 | 95.5 | 92.5 | 90.8 | 79.5 | 83 | 76.8 | 86.8 |
| WFDC6 | 87.3 | 97.7 | 101.6 | 77.7 | 88.8 | 92.5 | 84.2 | 87.2 |
| WFDC8 | 96.9 | 104.7 | 94.1 | 91.9 | 90.3 | 88.8 | 105.6 | 100.7 |
| WFDC8 | 108.6 | 127 | 91.5 | 90.4 | 81.6 | 88.9 | 101.4 | 125.5 |
| WFDC9 | 74.5 | 77.5 | 88 | 88.3 | 81.2 | 91.3 | 77.5 | 84.2 |
| WFIKKN1 | 87.2 | 108 | 100.6 | 81.8 | 82.3 | 82.1 | 85.4 | 102.5 |
| WFIKKN2 | 78.4 | 95.5 | 74.8 | 69 | 73.8 | 86.3 | 79.8 | 91.3 |
| WFS1 | 110.5 | 117 | 112.9 | 100.6 | 98.6 | 102.5 | 109.8 | 129.7 |
| WHDC1 | 172 | 220.7 | 117.7 | 145 | 151.6 | 137.5 | 154 | 192.1 |

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|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| WHDC1 | 159.6 | 208 | 112 | 104.9 | 90.8 | 127.5 | 160.7 | 203.4 |
| WHSC1 | 98.8 | 128.1 | 92 | 102.7 | 91.3 | 84.8 | 97 | 126.6 |
| WHSC1 | 140.1 | 157.9 | 110.2 | 93.8 | 95.9 | 99.5 | 120.8 | 153.3 |
| WHSC1 | 114.2 | 130.8 | 103.8 | 103.4 | 86.1 | 103.4 | 108.8 | 148.5 |
| WHSC1 | 102.5 | 112.1 | 96.8 | 77.5 | 92.7 | 86.8 | 96.5 | 105.7 |
| WHSC1 | 118.5 | 161.7 | 88.8 | 89.7 | 87.4 | 87.2 | 102.9 | 147.8 |
| WHSC1L1 | 127.8 | 177.2 | 88.8 | 93.8 | 78.2 | 94.7 | 140 | 168 |
| WHSC1L1 | 161.1 | 173.9 | 107.8 | 99.3 | 93.8 | 99.7 | 136.4 | 170.4 |
| WHSC1L1 | 216.4 | 287 | 171.8 | 178.2 | 143.1 | 205.1 | 189 | 251.3 |
| WHSC2 | 149.3 | 202 | 129.6 | 108.5 | 108.4 | 104.6 | 145 | 241.9 |
| WIBG | 612.7 | 789.6 | 340.3 | 446.7 | 407.1 | 695.4 | 593.5 | 857.4 |
| WIF1 | 127.4 | 164.5 | 97.6 | 85.2 | 88.4 | 82.4 | 123.6 | 151.4 |
| WIPF1 | 83.4 | 93.6 | 92.3 | 99.2 | 100.2 | 118.1 | 85.9 | 86.2 |
| WIPF1 | 304.9 | 414.1 | 157.4 | 179.7 | 151.9 | 201.5 | 256.2 | 414.6 |
| WIPF3 | 82.4 | 88.2 | 96.2 | 89.3 | 82.5 | 94.5 | 78.7 | 83.8 |
| WIPI1 | 105.8 | 114.9 | 115.4 | 123.9 | 124.6 | 148.5 | 121.2 | 160.3 |
| WIPI2 | 352 | 522.9 | 248.5 | 262.4 | 231 | 288.4 | 378.5 | 501.1 |
| WIPI2 | 99.1 | 111.8 | 91.5 | 87.8 | 84.1 | 93.7 | 105.9 | 103.5 |
| WIRE | 152.3 | 190.6 | 119.4 | 109.1 | 119.4 | 108.8 | 150.7 | 156 |
| WISP1 | 78.8 | 92.9 | 88.9 | 78.6 | 79 | 85.9 | 76.9 | 83.7 |
| WISP1 | 106.4 | 95.8 | 95.1 | 86.4 | 90.3 | 91.6 | 91.7 | 95.8 |
| WISP2 | 93.8 | 101.5 | 94 | 88 | 87.9 | 85.2 | 92.2 | 118.9 |
| WISP3 | 77.1 | 101.4 | 85 | 89.2 | 95.1 | 86.9 | 85.9 | 90.7 |
| WISP3 | 80 | 84.1 | 98.5 | 79.7 | 83.6 | 86.8 | 74.8 | 93.6 |
| WISP3 | 138.9 | 167.4 | 97.9 | 85.8 | 88 | 92.1 | 119.2 | 154.1 |
| WIT-1 | 183.4 | 175.9 | 140.9 | 108.6 | 89.9 | 109.1 | 130.3 | 161 |
| WNK1 | 170.9 | 212.9 | 204.3 | 244.5 | 223.4 | 220.3 | 163.3 | 216.6 |
| WNK2 | 91.8 | 99.3 | 97.1 | 91.2 | 87.3 | 92.6 | 92.1 | 92.5 |
| WNK3 | 125.7 | 136.3 | 96.1 | 94.6 | 80.1 | 93.1 | 103.3 | 125.9 |
| WNK3 | 126.8 | 144.2 | 95.5 | 92.6 | 94.3 | 89.1 | 119 | 134.9 |
| WNK4 | 93.3 | 104.3 | 111.9 | 93.5 | 87.2 | 98.4 | 91.8 | 115.4 |
| WNT1 | 70.5 | 86 | 93.5 | 90.7 | 82.1 | 88 | 73.2 | 81.4 |
| WNT10A | 112.7 | 119.1 | 101.1 | 88.5 | 85.7 | 93.4 | 109.9 | 127.4 |
| WNT10B | 109.6 | 131.6 | 103 | 75.1 | 78.1 | 92 | 118.8 | 142.6 |
| WNT11 | 93 | 97.5 | 94.3 | 89.2 | 81.8 | 96.7 | 99 | 95.9 |
| WNT16 | 148.4 | 155.2 | 108.9 | 104.3 | 97.5 | 116.8 | 151.6 | 165.2 |
| WNT16 | 99 | 91.3 | 108.3 | 87.7 | 92.6 | 89.5 | 92.9 | 92 |
| WNT2 | 121.9 | 138.3 | 103.9 | 91.2 | 95.2 | 90.2 | 118.5 | 124.5 |
| WNT2B | 129.4 | 158.9 | 102.9 | 94.5 | 98.1 | 91.8 | 125.9 | 138.1 |
| WNT2B | 106.2 | 122.6 | 99 | 91.3 | 82.8 | 79.9 | 96.3 | 111.9 |
| WNT3 | 298.4 | 317.2 | 195.6 | 206.2 | 218.5 | 173.4 | 196.5 | 179.5 |
| WNT3A | 91.7 | 88.8 | 89 | 86.3 | 86.3 | 88.5 | 78.7 | 94.5 |
| WNT4 | 76.4 | 89.8 | 83.3 | 83 | 81.4 | 93.1 | 76.9 | 86 |
| WNT5A | 81.1 | 90.9 | 88.1 | 85.5 | 75.3 | 71.2 | 78.4 | 82.1 |
| WNT5B | 102.7 | 128.6 | 100.3 | 87 | 79.4 | 85.3 | 104.8 | 119.8 |
| WNT5B | 79.2 | 93.5 | 96 | 84.3 | 77 | 81.4 | 81.8 | 90.6 |
| WNT6 | 125.7 | 166.2 | 104 | 101.9 | 90.2 | 110.1 | 131.3 | 147.2 |
| WNT7A | 101.8 | 111.5 | 89 | 91.6 | 81.5 | 77.3 | 97.6 | 106.7 |
| WNT7B | 106.9 | 125.8 | 139.3 | 119.8 | 122.3 | 136 | 105.3 | 112.3 |
| WNT8A | 82.6 | 97.7 | 100.9 | 90.9 | 92.1 | 92.4 | 83.7 | 96.6 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| WNT8A | 137.6 | 178.5 | 96 | 92.3 | 85.3 | 80.4 | 147 | 162.6 |
| WNT8B | 78.9 | 78.7 | 88.6 | 81.7 | 79.9 | 83.5 | 67 | 88.9 |
| WNT9A | 111.6 | 129.9 | 103.4 | 91.3 | 87.6 | 95.3 | 100.7 | 117.4 |
| WNT9B | 117.1 | 131 | 86 | 82.8 | 77.5 | 77.9 | 104.8 | 135.7 |
| WRB | 595.8 | 734.6 | 283.5 | 251.8 | 267.3 | 242.5 | 494.1 | 762.2 |
| WRN | 701.1 | 923.2 | 593.9 | 553.5 | 480.9 | 838.1 | 614.1 | 939.2 |
| WRNIP1 | 205.4 | 329.6 | 161.8 | 124.1 | 121.5 | 110 | 186.4 | 241.3 |
| WRNIP1 | 1014.6 | 1211.4 | 884.5 | 1261.5 | 886.8 | 1595.3 | 907.1 | 1826.6 |
| WSB1 | 915.2 | 972.9 | 368.4 | 365.2 | 349 | 398.6 | 1060 | 1738.6 |
| WSB1 | 893.2 | 837.2 | 440.2 | 520.8 | 471.3 | 664.1 | 742.6 | 1509.2 |
| WSB2 | 231.6 | 285.1 | 127.5 | 111.7 | 103.9 | 142.4 | 234.2 | 371.6 |
| WT1 | 273.7 | 367.2 | 248.4 | 137.9 | 127.8 | 199.4 | 203.2 | 245.2 |
| WT1 | 352.1 | 517 | 275.1 | 161.9 | 125.6 | 195.7 | 266.6 | 389.7 |
| WTAP | 1730.4 | 2156.1 | 1089.3 | 940.1 | 689.4 | 995.8 | 1377.9 | 2386.2 |
| WTAP | 164.8 | 176.1 | 121 | 110.8 | 108.3 | 123.3 | 116.2 | 129.2 |
| WTAP | 165.1 | 194.1 | 128.8 | 111.2 | 111.5 | 135.7 | 152.8 | 174.9 |
| WTIP | 95.3 | 104.1 | 84.8 | 81.5 | 84.7 | 85.8 | 94.3 | 105.2 |
| WTIP | 198.2 | 204.1 | 109.4 | 105.6 | 104.1 | 115.3 | 165.7 | 170.2 |
| WWC1 | 463.6 | 581.1 | 277 | 212.1 | 186.4 | 255.4 | 311.1 | 329.3 |
| WWC2 | 123.9 | 140.2 | 112.5 | 89.5 | 95.8 | 105.8 | 114.7 | 134 |
| WWC3 | 130.6 | 142.2 | 156.3 | 159.8 | 136.1 | 179.2 | 110.8 | 136.3 |
| WWOX | 100.6 | 107.8 | 91.1 | 86.3 | 84.4 | 87.5 | 101.2 | 109 |
| WWOX | 172.4 | 217.2 | 138.7 | 109.5 | 98.2 | 99.3 | 158.8 | 181.3 |
| WWOX | 102.1 | 104.8 | 80.7 | 77.8 | 72.8 | 79.3 | 87.9 | 113.6 |
| WWOX | 200.7 | 285.5 | 129.3 | 103.9 | 108.5 | 94.8 | 195.2 | 209.7 |
| WWP1 | 95.9 | 97.6 | 96.9 | 96.8 | 84.3 | 92.2 | 89 | 109 |
| WWP2 | 82.8 | 102.1 | 81.8 | 84.6 | 88.9 | 89.3 | 75.7 | 80.2 |
| WWP2 | 140 | 192 | 123.1 | 102.1 | 105.5 | 109.2 | 167.6 | 172.6 |
| WWP2 | 420 | 559.6 | 269.6 | 263.9 | 233.2 | 314.5 | 390.5 | 411.7 |
| WWTR1 | 93.3 | 95.7 | 85.6 | 86 | 80.8 | 94.4 | 88.5 | 109.7 |
| XAB1 | 2005.7 | 2716.1 | 1714.7 | 1287.9 | 1016.2 | 1717.7 | 1549 | 2222.3 |
| XAB2 | 773 | 930.6 | 761.9 | 551.4 | 402.6 | 819.2 | 715.3 | 1401.8 |
| XAF1 | 722.6 | 815.8 | 365.6 | 318.4 | 324.7 | 398.1 | 501.2 | 499.6 |
| XAF1 | 180.6 | 182.8 | 108 | 124.6 | 116.6 | 123.3 | 135 | 157.7 |
| XAGE1 | 87.6 | 95.1 | 91.4 | 88.1 | 81.4 | 93.2 | 91.2 | 96.6 |
| XAGE1 | 476.2 | 594.8 | 338.9 | 259.1 | 230 | 218.6 | 396.9 | 400.7 |
| XAGE2 | 81.4 | 85.9 | 94.3 | 90 | 82.5 | 87.7 | 76.3 | 96.4 |
| XAGE3 | 95.2 | 94.9 | 99.5 | 96 | 94.6 | 100.2 | 98 | 103.4 |
| XAGE3 | 97.2 | 105.6 | 87.1 | 84.9 | 86.6 | 80.8 | 91.7 | 95.2 |
| XAGE5 | 71.3 | 90.8 | 88.9 | 72.4 | 80.9 | 76.8 | 78.2 | 84.4 |
| XBP1 | 4412.5 | 6212.9 | 2700.7 | 1602.6 | 1131.3 | 2316.1 | 4510.8 | 8702.4 |
| XBP1 | 5511.1 | 7312.3 | 4597 | 3025.6 | 2286 | 3696.5 | 6129.5 | 8984.1 |
| XCL1 | 94.7 | 95.2 | 91.6 | 89.1 | 81.6 | 87.1 | 83.3 | 93.3 |
| XCR1 | 87.6 | 92.1 | 92 | 90.2 | 82.1 | 85.8 | 86.9 | 95.4 |
| XCR1 | 81.8 | 93.2 | 87 | 84.5 | 82.1 | 86.7 | 92.5 | 105.7 |
| XCR1 | 115 | 135.8 | 102.4 | 109.3 | 102.4 | 109 | 121 | 124.8 |
| XDH | 84.3 | 109.6 | 91.5 | 76.4 | 68.9 | 81.6 | 92.9 | 114.6 |
| XG | 69.5 | 69.9 | 85.5 | 90.9 | 79.7 | 69.8 | 69 | 77.3 |
| XK | 137.3 | 185.6 | 128.2 | 207.6 | 156.9 | 256.2 | 124.5 | 181.4 |
| XKR3 | 86.8 | 102.3 | 93.4 | 88.2 | 71.8 | 89.4 | 89.7 | 100.3 |

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|---------|---------|---------|--------|--------|--------|--------|---------|---------|
| XKR4 | 72.5 | 78.5 | 86.7 | 87.2 | 81.2 | 82.8 | 77.4 | 85.5 |
| XKR5 | 98.1 | 110.4 | 88.7 | 83.6 | 84.7 | 88.2 | 93.9 | 103.4 |
| XKR6 | 73.2 | 81.2 | 90.6 | 88.9 | 83.9 | 86.8 | 76 | 81.7 |
| XKR6 | 131.5 | 152.6 | 91.5 | 82.8 | 83.8 | 95.4 | 118 | 152 |
| XKR6 | 227.4 | 281.6 | 166.3 | 126.8 | 121.6 | 134.8 | 200.2 | 247.9 |
| XKR7 | 92 | 96.9 | 91.5 | 85.8 | 83.1 | 83.1 | 95.5 | 109.9 |
| XKR8 | 225.2 | 279.4 | 191.7 | 164.3 | 145.8 | 176.3 | 213.5 | 405.9 |
| XKR9 | 77.5 | 88.2 | 86.2 | 87.3 | 80.9 | 87.2 | 83.5 | 87.1 |
| XKRX | 102.2 | 125.1 | 96.9 | 87.7 | 85.2 | 88.2 | 97.4 | 108.3 |
| XKRY | 85.7 | 89 | 87 | 82.6 | 77.5 | 80.5 | 80.8 | 86.6 |
| XLF | 94.4 | 110.8 | 103.2 | 93.5 | 81.6 | 91.9 | 95.9 | 103.7 |
| XLKD1 | 78.6 | 81.2 | 90 | 82.7 | 84.9 | 87.1 | 82.4 | 87.3 |
| XPA | 125.1 | 153.3 | 92.8 | 84.7 | 77.4 | 90.6 | 119 | 161.9 |
| XPC | 536.2 | 738.5 | 608 | 769 | 606.4 | 1117.2 | 498.4 | 1045.4 |
| XPNPEP1 | 2379.5 | 3098.6 | 1647.4 | 1127.5 | 852.3 | 1341.5 | 2141.4 | 3200.3 |
| XPNPEP2 | 128.1 | 150.6 | 107.8 | 98.7 | 90.5 | 95.6 | 124.2 | 148.4 |
| XPNPEP3 | 10721.8 | 10983.3 | 6359.8 | 6168.9 | 5981.4 | 4883.4 | 11235.3 | 16905.7 |
| XPO1 | 2757 | 3093.1 | 2558.1 | 3480.7 | 2622.9 | 5669.9 | 2800.1 | 4387.9 |
| XPO4 | 516.4 | 718.6 | 253.1 | 281.7 | 192.2 | 301.5 | 489.4 | 674.1 |
| XPO5 | 850.2 | 1048.3 | 548 | 436.2 | 337.9 | 400.6 | 718.1 | 845.2 |
| XPO6 | 646.5 | 844.9 | 543.7 | 491.5 | 405.8 | 590.7 | 513.1 | 765.3 |
| XPO7 | 773.5 | 1098.9 | 576.6 | 476.7 | 369.8 | 596.2 | 700.4 | 691 |
| XPOT | 717.8 | 851.8 | 300.2 | 214.1 | 189.4 | 220 | 459.3 | 588.4 |
| XPR1 | 1632.6 | 2144.5 | 1057.5 | 1228.3 | 809.7 | 1581.7 | 1595.8 | 2377.3 |
| XRCC1 | 424.9 | 585.2 | 369.9 | 290.3 | 234 | 330.6 | 424.2 | 482.1 |
| XRCC2 | 918.5 | 721.2 | 631.1 | 1131.6 | 923.8 | 653.9 | 850.3 | 1601.1 |
| XRCC3 | 286.2 | 344.2 | 307.9 | 209.8 | 160 | 276.4 | 242 | 441 |
| XRCC4 | 98.5 | 117.8 | 90.8 | 85.3 | 73.7 | 86.6 | 104.1 | 134.8 |
| XRCC5 | 1609.3 | 2340.8 | 557.8 | 551.1 | 341.8 | 754.1 | 1157.2 | 1983 |
| XRCC6 | 5243.3 | 6454.9 | 4700 | 3608 | 2981.6 | 4811.3 | 4635.4 | 6362.3 |
| XRN1 | 113.3 | 133.7 | 102.2 | 106.9 | 96.8 | 101.8 | 102.4 | 112.4 |
| XRN1 | 310.6 | 472.8 | 252.1 | 486.1 | 388.1 | 628.9 | 365.3 | 511.1 |
| XRN2 | 86 | 89 | 84.9 | 78.5 | 80.6 | 82.3 | 84.2 | 94.1 |
| XTP3TPA | 3400.6 | 4536.7 | 2653.1 | 1352.5 | 952.4 | 1394.5 | 2842.8 | 3280.2 |
| XTP7 | 82.6 | 83.2 | 78.8 | 78.3 | 79.6 | 76.7 | 80 | 94 |
| XYLT1 | 88 | 94.6 | 121.2 | 116.5 | 113 | 110.1 | 86.7 | 93.3 |
| XYLT2 | 727 | 828.4 | 457.6 | 523.7 | 445.1 | 546.8 | 562.6 | 720.5 |
| YAF2 | 212.3 | 267.5 | 105.9 | 112.7 | 99.8 | 110 | 256.1 | 332.5 |
| YAF2 | 97.2 | 91.2 | 100.1 | 94.3 | 90 | 86.9 | 100.2 | 101.8 |
| YAF2 | 161 | 196.2 | 133.1 | 131.8 | 122.4 | 151.7 | 159.4 | 163.7 |
| YAP1 | 99.1 | 100.8 | 93.9 | 105 | 90.3 | 96.7 | 82.9 | 116.1 |
| YARS | 3793.1 | 5261.1 | 1761.1 | 1897.5 | 1294.4 | 2175.8 | 3710.1 | 4356.3 |
| YARS2 | 1130.2 | 1560 | 577.4 | 399.1 | 348.6 | 457 | 777.9 | 1295.6 |
| YBX1 | 15747.9 | 19670.9 | 5314.8 | 5193.5 | 5677.5 | 6699.4 | 16082.3 | 20846.2 |
| YBX2 | 94.2 | 115.5 | 100.6 | 91.6 | 88.7 | 96.3 | 102.2 | 119.3 |
| YEATS2 | 357.4 | 480.2 | 366 | 536.8 | 443.2 | 803.7 | 389.4 | 633.2 |
| YEATS4 | 1190.8 | 1486 | 604 | 623.7 | 496 | 852.9 | 887 | 2086.6 |
| YES1 | 475.4 | 575.4 | 204.5 | 200.1 | 225.3 | 411 | 453.3 | 867.8 |
| YIF1A | 1196.5 | 1645.1 | 528.3 | 405.5 | 317.8 | 346.8 | 989 | 951.8 |
| YIF1B | 307.2 | 381.5 | 167.2 | 122.4 | 96.8 | 103 | 227.6 | 351.8 |

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|--------|---------|---------|---------|---------|--------|---------|---------|---------|
| YIF1B | 643.5 | 728.4 | 540.2 | 360.2 | 339.4 | 454.8 | 557.5 | 826.2 |
| YIF1B | 1667.5 | 1988.9 | 547 | 491 | 349.2 | 511.5 | 1515.6 | 2345.5 |
| YIPF1 | 784.5 | 1038.2 | 496.5 | 566 | 430.5 | 621.1 | 706.7 | 1242.8 |
| YIPF2 | 201.7 | 289.1 | 130.1 | 112.9 | 112.5 | 110.7 | 222.6 | 256.5 |
| YIPF3 | 1718.3 | 2181.6 | 704.7 | 584 | 492.9 | 494.8 | 1680.9 | 2171.9 |
| YIPF4 | 106.8 | 123.8 | 86.7 | 87.3 | 78.7 | 83.7 | 97.7 | 117.5 |
| YIPF5 | 166 | 220.5 | 112.7 | 149.1 | 124.1 | 149.9 | 198.1 | 338.8 |
| YIPF5 | 111.3 | 134 | 98.3 | 88.1 | 89.3 | 92.8 | 113.5 | 113.9 |
| YIPF6 | 947.1 | 1178.7 | 580.9 | 791 | 685.8 | 868.4 | 907.7 | 1281.1 |
| YKT6 | 123.7 | 139.4 | 88.4 | 80.9 | 87.3 | 78.9 | 120 | 152.7 |
| YME1L1 | 1522.4 | 2099.7 | 841.4 | 656.5 | 538.4 | 843.7 | 1194.4 | 1747.7 |
| YOD1 | 90.9 | 84 | 89.9 | 87.6 | 72.3 | 84.6 | 81.9 | 94.8 |
| YPEL1 | 99.4 | 114.6 | 115.5 | 114.1 | 132.4 | 128.7 | 106.8 | 102.6 |
| YPEL2 | 124.1 | 175.9 | 167.5 | 207.2 | 187.9 | 277.1 | 133.6 | 152.6 |
| YPEL3 | 139 | 176.4 | 129.2 | 102.3 | 108.7 | 108.4 | 149.1 | 217.3 |
| YPEL4 | 83.6 | 88.8 | 97.6 | 87.7 | 82.6 | 84.2 | 84.2 | 84.4 |
| YPEL5 | 299.6 | 403.7 | 247.5 | 516.4 | 432.1 | 623.7 | 394.5 | 843.2 |
| YRDC | 679.8 | 890.5 | 421.3 | 406.6 | 278.5 | 396.6 | 590.4 | 889.1 |
| YSK4 | 90.5 | 89.7 | 98.8 | 94.3 | 79.3 | 83.7 | 84.4 | 92.4 |
| YSK4 | 80.3 | 87 | 92.5 | 87.7 | 84.5 | 83.3 | 77.3 | 81.7 |
| YSK4 | 83 | 93.4 | 102.7 | 91.1 | 90 | 87.3 | 90 | 94.4 |
| YTHDC1 | 139.6 | 174 | 98.6 | 82.8 | 89.6 | 93.1 | 132.1 | 187.7 |
| YTHDC1 | 164.5 | 195.2 | 108.6 | 110.2 | 119.7 | 109.3 | 143.8 | 213.7 |
| YTHDC1 | 2942.2 | 3516.9 | 2135.9 | 2630 | 2083.3 | 3707.3 | 2674.9 | 4217 |
| YTHDC2 | 191 | 230.3 | 141.2 | 143.3 | 132.7 | 198.7 | 157.5 | 218.4 |
| YTHDF1 | 1246.7 | 1476.2 | 809.2 | 642 | 493.2 | 672.7 | 1386 | 1890.5 |
| YTHDF2 | 1336.6 | 1689.7 | 731.9 | 798.6 | 547.1 | 1014.9 | 1095.9 | 2756 |
| YTHDF3 | 485.5 | 620.6 | 205.6 | 200.1 | 155 | 219.2 | 374.1 | 585.3 |
| YWHAB | 14554.5 | 16402.2 | 9037.3 | 12310.8 | 7876.5 | 10314 | 14374.6 | 19632.8 |
| YWHAB | 687.6 | 989.2 | 443.5 | 443 | 323 | 418.2 | 572.8 | 660.1 |
| YWHAE | 368.6 | 494.6 | 321.2 | 199.1 | 166.5 | 299.6 | 308.7 | 635.1 |
| YWHAG | 3424.8 | 3973.2 | 791.5 | 984.6 | 909.2 | 1299 | 3478.3 | 5620.2 |
| YWHAH | 10400.2 | 13131.2 | 10002.2 | 9574.5 | 6642.9 | 10042.8 | 9382.7 | 12536.2 |
| YWHAQ | 13902.1 | 18515.6 | 8363.3 | 7474.7 | 5667 | 8827.4 | 12564.4 | 16587.5 |
| YWHAZ | 10023.6 | 14046.2 | 7936 | 6638.2 | 4050.1 | 8349 | 7667.2 | 11520.4 |
| YWHAZ | 811.4 | 1057 | 217.8 | 167.6 | 132.7 | 179.2 | 461.2 | 676.4 |
| YY1 | 1083.6 | 1284.2 | 424 | 382.1 | 294.2 | 533.9 | 1120.1 | 1897.9 |
| YY1AP1 | 2081.4 | 2808.5 | 1210.6 | 1148.2 | 1053 | 1168.5 | 1713.7 | 1997.5 |
| YY2 | 89.2 | 108.7 | 102.3 | 87 | 82.5 | 102.4 | 93.4 | 99.6 |
| ZA20D2 | 3492.7 | 3645.9 | 2529.9 | 2200.6 | 1720.5 | 3293.9 | 3200.4 | 6313.3 |
| ZADH1 | 300.4 | 285.3 | 196.1 | 176 | 173.8 | 164.8 | 238.3 | 377.9 |
| ZADH2 | 387.9 | 501.9 | 236 | 380.8 | 355 | 286.1 | 327.2 | 392 |
| ZAK | 472.7 | 592.2 | 163.4 | 127.9 | 117.4 | 116.3 | 330.4 | 440.9 |
| ZAK | 1294.8 | 1434.4 | 969.5 | 848.8 | 588.7 | 956.9 | 1177.7 | 1916.1 |
| ZAN | 84.9 | 96.7 | 91.1 | 83.2 | 82.3 | 85.5 | 88 | 100 |
| ZAN | 115.6 | 135.3 | 97 | 105.9 | 91.8 | 107.9 | 127 | 143.6 |
| ZAN | 91.8 | 120.9 | 90.8 | 87.9 | 88.4 | 84.6 | 99.7 | 109.4 |
| ZAP70 | 96.2 | 101.9 | 90.7 | 85.3 | 97.7 | 88.8 | 82.3 | 90.9 |
| ZAP70 | 94 | 81.8 | 95.3 | 87.4 | 86.4 | 92.3 | 78.5 | 88.5 |
| ZAP70 | 101.7 | 114.9 | 89.6 | 87.3 | 88.1 | 83.5 | 98.3 | 110.3 |

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| ZAR1 | 79.8 | 86.7 | 88.6 | 90 | 82.5 | 71.6 | 84.3 | 88 |
| ZBED1 | 1118.3 | 1565.2 | 1236.2 | 1825.3 | 1873 | 2107.1 | 1042.6 | 1958.7 |
| ZBED2 | 73.1 | 84.9 | 88 | 87.6 | 84.4 | 86.2 | 80.2 | 84.8 |
| ZBED3 | 115.3 | 117.6 | 96 | 84.7 | 79.6 | 79.9 | 104.5 | 125.4 |
| ZBED4 | 471.2 | 628 | 484.5 | 525.2 | 458.9 | 697.8 | 406.5 | 890.1 |
| ZBED5 | 936.5 | 1138.5 | 276.7 | 220.2 | 241.7 | 271.4 | 678.8 | 809.6 |
| ZBP1 | 362.9 | 481.9 | 195.9 | 160.4 | 127.8 | 175.5 | 370.1 | 452.9 |
| ZBTB1 | 87.7 | 93.4 | 99.7 | 94.3 | 91.2 | 103.8 | 89.2 | 89 |
| ZBTB10 | 126.8 | 187.9 | 96.6 | 90.5 | 94.5 | 83.9 | 117.7 | 137.9 |
| ZBTB11 | 106 | 151.7 | 109.7 | 109.9 | 97.7 | 139.9 | 139.7 | 181 |
| ZBTB12 | 95 | 105.5 | 102.8 | 103.3 | 97.9 | 98.7 | 97.2 | 89.1 |
| ZBTB16 | 81.1 | 99.4 | 83.3 | 87.6 | 76.2 | 89.9 | 88.4 | 88.4 |
| ZBTB16 | 79.4 | 87.1 | 96.9 | 92.7 | 97.3 | 95.8 | 77.2 | 77.6 |
| ZBTB16 | 96.7 | 94.9 | 89.4 | 88.3 | 85.8 | 86.6 | 94.3 | 85.9 |
| ZBTB17 | 267 | 316.5 | 293.3 | 213.1 | 194 | 278 | 219.9 | 410.2 |
| ZBTB2 | 153 | 182.7 | 112.3 | 112.1 | 97.2 | 117.7 | 161.3 | 313 |
| ZBTB20 | 110.8 | 123.9 | 104.7 | 153.7 | 166.8 | 167.2 | 105.1 | 110.4 |
| ZBTB24 | 628 | 798 | 370.9 | 399.6 | 339.7 | 496 | 490.6 | 590.6 |
| ZBTB25 | 213.4 | 260.3 | 165.9 | 123.2 | 116 | 159 | 169 | 213 |
| ZBTB26 | 102.8 | 135 | 114.5 | 106.5 | 92.9 | 116.4 | 98.3 | 104.3 |
| ZBTB3 | 228.3 | 282.3 | 111.9 | 113.6 | 101.2 | 108.6 | 199.2 | 237.1 |
| ZBTB32 | 117.7 | 124.7 | 103.1 | 111 | 101.5 | 102.3 | 113.2 | 110.5 |
| ZBTB33 | 2896.3 | 3615.4 | 2104.4 | 3111.3 | 2283.7 | 4409.7 | 2004.1 | 2687.9 |
| ZBTB37 | 88.6 | 96.4 | 81.9 | 87.2 | 78.2 | 85.1 | 82.6 | 88.1 |
| ZBTB38 | 130.3 | 161.3 | 85.9 | 80.1 | 87.9 | 100.3 | 110.4 | 150.3 |
| ZBTB39 | 140.4 | 164.7 | 142.9 | 119.7 | 117.4 | 133.7 | 122.3 | 178.3 |
| ZBTB4 | 382.9 | 433.7 | 348.3 | 441.7 | 351.1 | 542.9 | 367.9 | 597.7 |
| ZBTB40 | 271.4 | 296.3 | 186.9 | 259.4 | 320.2 | 247.2 | 234.9 | 233.4 |
| ZBTB41 | 110.6 | 146.1 | 108.4 | 95.4 | 88.4 | 103 | 107.2 | 124.5 |
| ZBTB44 | 411.3 | 557.5 | 163.7 | 119.9 | 120.1 | 126.8 | 296.5 | 510.8 |
| ZBTB5 | 197.7 | 219.5 | 210.3 | 185.6 | 165.1 | 212.3 | 198.6 | 330.4 |
| ZBTB7A | 93.7 | 118 | 99.9 | 84.1 | 79.7 | 88.1 | 112.7 | 133.4 |
| ZBTB7B | 113.4 | 126.8 | 126.2 | 113.7 | 106.2 | 124.9 | 114.5 | 134.8 |
| ZBTB8 | 95.9 | 105 | 93.2 | 86 | 85.9 | 92.8 | 93.7 | 98.4 |
| ZBTB8 | 151.3 | 186.5 | 87.2 | 92.8 | 106.3 | 109.2 | 164.8 | 206.3 |
| ZBTB8OS | 326 | 348.4 | 139.8 | 117.3 | 102 | 118.5 | 262.6 | 448.5 |
| ZBTB9 | 479 | 638.9 | 364.6 | 328.5 | 240 | 390.4 | 368.6 | 626.9 |
| ZC3H10 | 204.9 | 228.1 | 149.5 | 145.2 | 140.4 | 165.7 | 169.7 | 247.9 |
| ZC3H11A | 90.3 | 108.6 | 87.8 | 91.3 | 77.4 | 78.8 | 95.9 | 110.8 |
| ZC3H12A | 143.4 | 154.4 | 157.1 | 118 | 120.7 | 134.1 | 145.2 | 232.6 |
| ZC3H12B | 125.4 | 151.2 | 126.4 | 124.2 | 100.8 | 132.8 | 126.2 | 135.9 |
| ZC3H14 | 519.1 | 684.3 | 329.6 | 324.8 | 243.8 | 404.7 | 351.3 | 547.9 |
| ZC3H15 | 1837.9 | 2246.4 | 520.7 | 460.5 | 339.3 | 798.7 | 1185.5 | 2620 |
| ZC3H3 | 904.7 | 1081.2 | 943.5 | 748 | 592 | 730.6 | 829.5 | 1180.2 |
| ZC3H6 | 207.3 | 240.5 | 139.3 | 137.4 | 117.2 | 159.9 | 169.6 | 241.4 |
| ZC3H7A | 136.8 | 161.3 | 105.1 | 112.7 | 99.9 | 104.5 | 138.3 | 183.5 |
| ZC3H7B | 120.6 | 126.5 | 95 | 93.5 | 82 | 102.3 | 121.5 | 142.3 |
| ZC3H8 | 351.5 | 411.1 | 113.2 | 132.9 | 101.1 | 149.9 | 356.8 | 326.7 |
| ZC3HAV1 | 175.9 | 234.9 | 147.8 | 142.5 | 105.8 | 176.4 | 160.8 | 257.6 |
| ZC3HAV1 | 296.1 | 403.7 | 152.1 | 158.5 | 121.1 | 153.6 | 238.9 | 371.8 |

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|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| ZC3HAV1 | 2220.1 | 3006.7 | 1176.5 | 1288.6 | 976.9 | 1247.1 | 1964.2 | 2230.5 |
| ZC3HAV1L | 108.8 | 120 | 95.9 | 94.4 | 80.4 | 92 | 113.7 | 109.2 |
| ZC3HC1 | 2587.1 | 3266.1 | 1877.9 | 1377.4 | 1233.5 | 1568.5 | 2304.4 | 2543.4 |
| ZCCHC10 | 93.9 | 91 | 106.3 | 97.3 | 88.7 | 90.1 | 81.1 | 100.3 |
| ZCCHC11 | 306 | 374.3 | 238 | 255.6 | 238.3 | 409 | 237.8 | 411 |
| ZCCHC11 | 192.1 | 232.9 | 150.8 | 155.5 | 156.6 | 260.7 | 167.5 | 254.2 |
| ZCCHC12 | 94.2 | 111.4 | 99.7 | 87.6 | 81.3 | 92.5 | 91.3 | 109 |
| ZCCHC13 | 87.9 | 94.2 | 81.1 | 80.8 | 75.7 | 82.4 | 90.8 | 81.4 |
| ZCCHC14 | 323.9 | 461.3 | 299.6 | 397.9 | 347.9 | 459.7 | 318.7 | 492.8 |
| ZCCHC16 | 77.2 | 77.6 | 100.9 | 80.1 | 78.4 | 79.8 | 75.3 | 83.2 |
| ZCCHC17 | 991.8 | 1302.4 | 889.7 | 906.8 | 768.9 | 1331 | 860.5 | 1441 |
| ZCCHC2 | 93.4 | 105 | 97.4 | 89 | 91.6 | 91.7 | 101.5 | 99.3 |
| ZCCHC3 | 379.3 | 519.1 | 373.7 | 335.5 | 266.2 | 467.4 | 317.6 | 548.6 |
| ZCCHC5 | 189.7 | 237.4 | 119.1 | 111 | 97.9 | 99.1 | 152.8 | 147.3 |
| ZCCHC6 | 163 | 212.1 | 105.3 | 105.2 | 99.6 | 113.1 | 156.9 | 180.6 |
| ZCCHC7 | 1449.9 | 1987.9 | 963 | 1036.4 | 833.5 | 1727.1 | 1163.4 | 1723.7 |
| ZCCHC8 | 510.1 | 637.8 | 367.8 | 371.4 | 360.4 | 609.6 | 378.3 | 544.9 |
| ZCCHC9 | 2167.6 | 2859.9 | 1551.2 | 1769.2 | 1326.4 | 2474.9 | 1761.4 | 3116.3 |
| ZCD1 | 3288.2 | 3942.8 | 1965.1 | 1710.2 | 1081.5 | 1458.1 | 3275.6 | 4751.7 |
| ZCRB1 | 206.5 | 248.9 | 160.9 | 177.5 | 132.1 | 198 | 229.7 | 321.1 |
| ZCSL2 | 571 | 649.7 | 389.2 | 323.9 | 242.9 | 294.3 | 456.8 | 653.6 |
| ZCSL3 | 447.8 | 508.5 | 332.4 | 243.6 | 205.1 | 343.9 | 340.4 | 1014.5 |
| ZCWPW1 | 333.5 | 392.1 | 181.2 | 207.6 | 244.8 | 279.8 | 270.9 | 312.1 |
| ZCWPW2 | 165.8 | 211.7 | 121.5 | 131.2 | 115.7 | 141.8 | 166 | 224.7 |
| ZD52F10 | 95 | 110.9 | 88.4 | 85.9 | 79.3 | 75.1 | 88.8 | 105.3 |
| ZD52F10 | 95.2 | 112.9 | 90.2 | 86.1 | 82.8 | 88.7 | 87.5 | 97 |
| ZD52F10 | 87.8 | 94.5 | 102.8 | 91.2 | 94 | 98.1 | 85.5 | 97.5 |
| ZDHHC1 | 246.3 | 263 | 192.6 | 117.6 | 103.7 | 118.3 | 169.2 | 193.6 |
| ZDHHC11 | 144.7 | 165.3 | 107.5 | 128.3 | 156.8 | 189.7 | 139.3 | 148.4 |
| ZDHHC11 | 94.7 | 105 | 115.8 | 93.2 | 88.7 | 99.7 | 96 | 102.3 |
| ZDHHC12 | 481.3 | 631.8 | 501.1 | 374.8 | 313.5 | 470.8 | 403.4 | 755.4 |
| ZDHHC13 | 489.9 | 715.5 | 431.9 | 326.2 | 279 | 474.8 | 436.9 | 606.3 |
| ZDHHC13 | 373.5 | 525.2 | 166 | 158.4 | 140 | 182.7 | 342.9 | 518 |
| ZDHHC13 | 194.9 | 232.1 | 110.5 | 95.7 | 98.2 | 115.7 | 155.1 | 214.8 |
| ZDHHC14 | 308 | 394.2 | 194.5 | 195.9 | 170.5 | 185.6 | 251.1 | 334.7 |
| ZDHHC15 | 85.1 | 91.5 | 84.7 | 76 | 75.7 | 85.1 | 85.6 | 90.8 |
| ZDHHC16 | 547.4 | 666.3 | 444 | 321.2 | 265.9 | 380.4 | 474.9 | 683 |
| ZDHHC16 | 102.5 | 117.9 | 87 | 89.6 | 84.1 | 83.3 | 94.5 | 105.9 |
| ZDHHC16 | 2410.2 | 3302.9 | 1706.5 | 1166 | 987.9 | 1234.1 | 1936.3 | 1828.3 |
| ZDHHC17 | 307.4 | 382.5 | 234.7 | 252.9 | 232.7 | 425.4 | 276.5 | 492.5 |
| ZDHHC18 | 147.3 | 180.2 | 166.8 | 138.1 | 115.8 | 146.9 | 147.7 | 233 |
| ZDHHC19 | 109.8 | 123.1 | 108.3 | 103.8 | 102.1 | 99.5 | 112 | 114.2 |
| ZDHHC2 | 164.6 | 193.6 | 118.9 | 107.7 | 104.7 | 126.7 | 139.2 | 213.2 |
| ZDHHC20 | 165.9 | 189.1 | 103.2 | 110.8 | 106.8 | 103.6 | 137.4 | 183.3 |
| ZDHHC21 | 114.7 | 127.1 | 99 | 96.1 | 83.1 | 95 | 103.8 | 137.9 |
| ZDHHC22 | 123.9 | 147.3 | 90 | 93.1 | 90.7 | 94.2 | 127.1 | 166.6 |
| ZDHHC23 | 144.6 | 209.3 | 108.8 | 103.1 | 98.2 | 123.3 | 143.9 | 156.1 |
| ZDHHC24 | 167.6 | 224.3 | 151.3 | 118.2 | 108.8 | 123.1 | 161.5 | 254.4 |
| ZDHHC3 | 429.5 | 628.7 | 369.4 | 349.7 | 236.6 | 461.3 | 309.3 | 501.4 |
| ZDHHC4 | 104.8 | 124.1 | 89.7 | 87 | 85.6 | 83.3 | 100.4 | 113.4 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| ZDHHC5 | 584.4 | 736.3 | 464 | 542.2 | 455.7 | 520.5 | 493.8 | 456.6 |
| ZDHHC6 | 1809.2 | 2239.7 | 1285.4 | 770.4 | 579.8 | 1171.6 | 1424.4 | 2851.9 |
| ZDHHC7 | 969.3 | 1289.5 | 663 | 818.2 | 646.1 | 841.6 | 1013.2 | 1463.9 |
| ZDHHC8 | 1891.5 | 2269.3 | 1977.9 | 2121.7 | 1790.1 | 2372.2 | 1230.1 | 1383 |
| ZDHHC9 | 1337.7 | 1674.7 | 686.7 | 362.2 | 336.8 | 358.1 | 1047.5 | 769 |
| ZDHHC9 | 85.8 | 99.2 | 100.9 | 95.4 | 87.9 | 99.3 | 89.8 | 82 |
| ZDHHC9 | 125.8 | 148.9 | 99.9 | 106.7 | 89.6 | 87.3 | 106 | 126.4 |
| ZF | 705 | 849.3 | 325.9 | 314.8 | 202.5 | 345 | 518.3 | 819.4 |
| ZFAND1 | 590.9 | 782.1 | 279.9 | 257.5 | 199 | 285.1 | 546.1 | 825.8 |
| ZFAND2A | 1193.4 | 1451.9 | 631.3 | 478.9 | 485.7 | 430.5 | 1236.7 | 1684.7 |
| ZFAND2B | 623 | 717.4 | 537.9 | 484.6 | 428.6 | 415.9 | 686 | 921.4 |
| ZFAND3 | 196 | 255 | 215.9 | 277.9 | 247.5 | 331.9 | 198.6 | 315.7 |
| ZFAND6 | 303.7 | 359.2 | 148.6 | 166.1 | 118.3 | 172.1 | 314.4 | 636.3 |
| ZFHX1B | 794.6 | 1102 | 606.2 | 789.9 | 679.2 | 1788.6 | 796.3 | 1167.4 |
| ZFHX4 | 75.2 | 83.8 | 88.4 | 78.4 | 78.2 | 82.3 | 83.9 | 84.6 |
| ZFP1 | 131.5 | 179.6 | 94.5 | 108.5 | 93.6 | 109 | 129 | 181.8 |
| ZFP106 | 713.1 | 1331.9 | 610.6 | 1010.3 | 870.3 | 1924 | 705 | 1021.5 |
| ZFP161 | 519.3 | 730 | 342.6 | 341 | 301.7 | 491.9 | 435 | 534.2 |
| ZFP2 | 143.7 | 159.5 | 131.8 | 141.7 | 142.4 | 171.7 | 128.1 | 157.9 |
| ZFP260 | 353.1 | 442.6 | 294 | 355.4 | 306 | 379.3 | 311.6 | 456.8 |
| ZFP28 | 115.3 | 120.8 | 106.4 | 110.2 | 101.1 | 114 | 99.9 | 116.1 |
| ZFP3 | 167.2 | 189.4 | 177.3 | 173.7 | 175.4 | 233.6 | 169 | 184.3 |
| ZFP36 | 1807.5 | 2103.9 | 735 | 685.8 | 594.8 | 607.8 | 1748.6 | 2011.1 |
| ZFP36L1 | 95.5 | 111.5 | 83.7 | 88.4 | 98.7 | 106.2 | 110.5 | 138 |
| ZFP36L2 | 2161.2 | 2572.6 | 887.9 | 711.4 | 752.2 | 995.4 | 1446.5 | 1405.2 |
| ZFP37 | 90.3 | 111.5 | 84.8 | 100.5 | 75.5 | 90.7 | 93.5 | 101.5 |
| ZFP41 | 96 | 134 | 99.8 | 98.1 | 96.2 | 100.8 | 114.3 | 105.4 |
| ZFP41 | 94.2 | 119.7 | 99.4 | 89.9 | 82.2 | 78.1 | 89 | 103.5 |
| ZFP42 | 92.4 | 108.5 | 94.5 | 99.1 | 89.9 | 91.3 | 97.9 | 118 |
| ZFP64 | 119.4 | 132.7 | 122.9 | 123.3 | 118.8 | 129.3 | 111.7 | 130.8 |
| ZFP64 | 131.4 | 171.6 | 123.6 | 110 | 115.5 | 108.6 | 120.9 | 137.3 |
| ZFP90 | 1243.6 | 1360.7 | 538.4 | 643.1 | 459.9 | 626.1 | 869.4 | 1189.9 |
| ZFP91 | 3698.7 | 4674.2 | 2347.8 | 2917.8 | 2370.7 | 4480.7 | 3424.1 | 4723.3 |
| ZFP91 | 328 | 443.2 | 149.7 | 175.9 | 178.7 | 118.1 | 346.1 | 482.8 |
| ZFP95 | 105.7 | 118.4 | 109.5 | 90 | 82.4 | 90.7 | 99.8 | 117 |
| ZFP95 | 107.3 | 134.3 | 89.5 | 88.4 | 82.8 | 88.9 | 105.8 | 117.2 |
| ZFP95 | 150.4 | 183.8 | 148.2 | 146.3 | 138 | 163.5 | 137 | 163.4 |
| ZFPL1 | 195.6 | 230.3 | 169.9 | 146.9 | 123.4 | 155.4 | 175.2 | 285.6 |
| ZFPM1 | 247.1 | 301.8 | 321.1 | 242.8 | 184.8 | 199.9 | 229.6 | 421.7 |
| ZFPM2 | 108.6 | 112.7 | 89.7 | 83.1 | 80.2 | 79.9 | 104.3 | 126.8 |
| ZFR | 3637.7 | 4508.5 | 1154.3 | 703.5 | 650.1 | 1248.4 | 3093.9 | 5358.2 |
| ZFX | 164 | 221.3 | 127.1 | 139.1 | 133.9 | 171.6 | 155 | 201.3 |
| ZFY | 173.5 | 244.8 | 153.5 | 155.5 | 154.3 | 247.7 | 150.6 | 334.7 |
| ZFYVE1 | 171.2 | 188.3 | 107.2 | 111.6 | 103.1 | 104.2 | 164.1 | 145.7 |
| ZFYVE1 | 120.1 | 139.1 | 96.7 | 116.7 | 100.1 | 110.3 | 105.1 | 137.2 |
| ZFYVE16 | 143.3 | 151.7 | 156.4 | 156.3 | 130.3 | 160.2 | 142 | 176.6 |
| ZFYVE19 | 435.7 | 536 | 395.5 | 389.5 | 399 | 631 | 354.6 | 635.7 |
| ZFYVE20 | 899.4 | 1232.7 | 575.4 | 882 | 635.7 | 984.3 | 812.9 | 997.6 |
| ZFYVE21 | 784 | 1351.6 | 715.9 | 541.8 | 492.4 | 680 | 781.5 | 1481.6 |
| ZFYVE26 | 286.7 | 396.9 | 298.5 | 437.3 | 397.2 | 583.8 | 265.6 | 331 |

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|----------|---------|--------|---------|--------|--------|---------|---------|--------|
| ZFYVE27 | 111.2 | 133.6 | 90.5 | 98.5 | 76.9 | 87.7 | 120.4 | 134.6 |
| ZFYVE27 | 120.2 | 155.6 | 128 | 112.2 | 111.4 | 110.9 | 131.9 | 186.8 |
| ZFYVE28 | 90.4 | 100.2 | 93.3 | 81.3 | 81.6 | 79 | 95.2 | 93.7 |
| ZFYVE9 | 97.9 | 119.5 | 100.7 | 104.8 | 92.5 | 94.1 | 92.3 | 114.3 |
| ZFYVE9 | 88 | 83.5 | 94.4 | 93.5 | 80.4 | 83.4 | 85.7 | 83.1 |
| ZFYVE9 | 80.8 | 97.8 | 97.1 | 93.6 | 82.4 | 91.5 | 89.6 | 92 |
| ZFYVE9 | 93.5 | 103.7 | 94.8 | 98.1 | 89.9 | 89.1 | 86.5 | 91.4 |
| ZGPAT | 145.3 | 180.1 | 106.7 | 110.5 | 100.4 | 119.3 | 139 | 164.9 |
| ZGPAT | 110.9 | 141.9 | 94.8 | 93.9 | 82.3 | 86.1 | 111.4 | 123.7 |
| ZGPAT | 751.5 | 951.1 | 581.9 | 479.3 | 467 | 499.5 | 739.6 | 736 |
| ZGPAT | 94.5 | 101 | 103.5 | 97.5 | 100.2 | 102.7 | 99.6 | 101.2 |
| ZHX1 | 359 | 448.7 | 161.1 | 133.7 | 128.7 | 230.8 | 281 | 429.1 |
| ZHX1 | 129.4 | 136.2 | 104.9 | 96.7 | 88.9 | 91.1 | 111.8 | 130.9 |
| ZHX1 | 218.1 | 334.3 | 141.2 | 113.9 | 115.3 | 158.1 | 197.6 | 231 |
| ZHX2 | 226.5 | 276.1 | 154.2 | 178.2 | 184.7 | 201.8 | 181.4 | 166.5 |
| ZHX3 | 230.9 | 354.9 | 128.9 | 167 | 135.9 | 181 | 208.4 | 211.1 |
| ZIC1 | 92.1 | 105.3 | 98.6 | 85.8 | 70.4 | 95.1 | 98.7 | 106.9 |
| ZIC2 | 1762 | 1981.9 | 1344.4 | 1317.8 | 977.5 | 1445.4 | 1883 | 2894.3 |
| ZIC3 | 103.1 | 108.8 | 76.3 | 75.2 | 73.5 | 78.6 | 92.1 | 103.2 |
| ZIC4 | 86.1 | 89.8 | 84.1 | 91.3 | 81.5 | 94.1 | 91.6 | 93.3 |
| ZIC5 | 159.1 | 188 | 105.5 | 107.4 | 101.5 | 104 | 144.7 | 167.7 |
| ZIK1 | 92.2 | 92.4 | 82.9 | 87.1 | 81 | 75.9 | 90.5 | 93 |
| ZIM2 | 87.5 | 82.9 | 93.1 | 81 | 83.5 | 84.7 | 86.3 | 98.3 |
| ZIM3 | 109.5 | 137.2 | 93.7 | 82.3 | 81.4 | 82.8 | 103.8 | 124.4 |
| ZKSCAN1 | 111 | 114 | 103.1 | 113.1 | 89.2 | 102.8 | 116.4 | 208.8 |
| ZMAT1 | 112.5 | 132.2 | 105.1 | 101.4 | 94.6 | 86.9 | 112 | 118.3 |
| ZMAT1 | 86.8 | 82.1 | 99.9 | 86.8 | 94.9 | 91.7 | 89.3 | 90.5 |
| ZMAT1 | 94.1 | 107.6 | 87 | 81.2 | 87.5 | 90.6 | 98.2 | 94.3 |
| ZMAT2 | 1638.2 | 2094.8 | 1104.4 | 1058.3 | 885.1 | 1270.6 | 1494.8 | 1838.2 |
| ZMAT3 | 3628.9 | 2868.9 | 1795.9 | 2310.6 | 1893.4 | 1646.1 | 3062.2 | 4867.9 |
| ZMAT5 | 91.9 | 100.8 | 93.4 | 78.6 | 80.8 | 80.2 | 88 | 96.6 |
| ZMAT5 | 297.8 | 377.3 | 208.6 | 172.8 | 126.1 | 162.2 | 280.1 | 344.3 |
| ZMIZ2 | 199.3 | 218 | 137.8 | 129 | 125.7 | 130.2 | 166.4 | 195.8 |
| ZMPSTE24 | 16363.7 | 21376 | 10223.6 | 9635.8 | 5746 | 11071.4 | 15551.9 | 20291 |
| ZMYM1 | 410.7 | 491.5 | 316.6 | 331.9 | 314.8 | 436.6 | 371.3 | 457.5 |
| ZMYM3 | 108.7 | 129.2 | 86.9 | 84.5 | 72.3 | 77.5 | 103.3 | 138.6 |
| ZMYM3 | 219.9 | 291.9 | 162.8 | 195.2 | 200.5 | 252.9 | 192.8 | 249.1 |
| ZMYM3 | 100.6 | 113.5 | 94.8 | 104.4 | 95.1 | 91.9 | 99.4 | 108.9 |
| ZMYM4 | 556.2 | 784.5 | 424.3 | 837.2 | 676.7 | 1464.8 | 484.3 | 707.2 |
| ZMYM5 | 211.6 | 256.7 | 126.5 | 150.3 | 129.9 | 147.9 | 176.4 | 227.5 |
| ZMYM5 | 212.4 | 270 | 124.8 | 135.2 | 130.3 | 134.4 | 179.2 | 236.8 |
| ZMYM6 | 80.7 | 102.6 | 109 | 103.3 | 92 | 82.3 | 90.6 | 84.8 |
| ZMYND10 | 87.6 | 85.5 | 102.7 | 92.3 | 93 | 94.2 | 85.7 | 87 |
| ZMYND11 | 141.6 | 139.2 | 120.5 | 102.5 | 98 | 99.7 | 120.5 | 164 |
| ZMYND11 | 157 | 163.6 | 97 | 94.8 | 89.1 | 83.8 | 158.2 | 144 |
| ZMYND12 | 131.7 | 169.7 | 117.3 | 146.1 | 125.6 | 162 | 122.1 | 150.7 |
| ZMYND15 | 79.6 | 86 | 93.6 | 84.1 | 82.6 | 87.1 | 78.4 | 76.8 |
| ZMYND17 | 113.2 | 111.7 | 108.5 | 104.2 | 89.3 | 102.8 | 105 | 108.2 |
| ZMYND19 | 1933.5 | 2600.1 | 1531.1 | 1149.7 | 1023.1 | 1400.7 | 1622.8 | 1952 |
| ZMYND8 | 286.2 | 406.1 | 185.7 | 178.6 | 151.2 | 233.8 | 229.9 | 261.7 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ZNF10 | 127.3 | 135.5 | 126.2 | 128.6 | 102.1 | 162.7 | 104.3 | 139.8 |
| ZNF100 | 95.4 | 88.7 | 81.9 | 87.3 | 83.6 | 84.9 | 88.4 | 93.3 |
| ZNF101 | 236.3 | 283.7 | 170.1 | 151.7 | 136.5 | 162 | 200.6 | 279.7 |
| ZNF114 | 107.6 | 116.9 | 115.8 | 91.4 | 89.9 | 111 | 105 | 121.5 |
| ZNF117 | 83.7 | 87.8 | 90.9 | 91.9 | 86.3 | 83 | 79.4 | 89.6 |
| ZNF11B | 268.5 | 312.3 | 176.7 | 216.6 | 186.6 | 339.6 | 198.9 | 317.7 |
| ZNF12 | 193.2 | 216.1 | 117.2 | 128.3 | 131.2 | 166.6 | 167.6 | 309.3 |
| ZNF121 | 103.3 | 104.5 | 91.6 | 115.8 | 94.7 | 78.9 | 95.1 | 109.1 |
| ZNF124 | 260.6 | 319.8 | 133.1 | 122.5 | 101.4 | 120.4 | 225.5 | 334.3 |
| ZNF131 | 126.7 | 169.4 | 80.9 | 93.1 | 80.6 | 88.5 | 132 | 142.5 |
| ZNF132 | 147.1 | 153.5 | 109.5 | 91.6 | 82.6 | 101.8 | 129 | 149 |
| ZNF133 | 176 | 224.9 | 173.1 | 207.2 | 234.8 | 311.9 | 157.7 | 183 |
| ZNF134 | 207.5 | 238.3 | 203 | 146.9 | 132.6 | 175.9 | 140.5 | 212.9 |
| ZNF135 | 79.9 | 78.8 | 88.9 | 96.5 | 79.4 | 87.5 | 80.5 | 82.5 |
| ZNF136 | 176.2 | 228.5 | 118.5 | 115.3 | 95 | 116.5 | 154.9 | 219.8 |
| ZNF136 | 237 | 265.7 | 168.4 | 138.1 | 109.4 | 129.7 | 195 | 275.4 |
| ZNF137 | 105.1 | 128.9 | 106.3 | 108.1 | 117.9 | 115.1 | 112.8 | 127.8 |
| ZNF14 | 105.6 | 119.7 | 93.5 | 84.4 | 78.4 | 86.8 | 99.4 | 132 |
| ZNF140 | 175.1 | 207.5 | 115.9 | 91 | 89.6 | 120.5 | 165.6 | 271.8 |
| ZNF141 | 92.9 | 106.3 | 92.7 | 90.2 | 83.6 | 99.6 | 91.6 | 94.9 |
| ZNF142 | 268.3 | 301.2 | 199 | 182.4 | 153.8 | 179 | 259.9 | 302 |
| ZNF143 | 423.6 | 520.5 | 294.5 | 368.2 | 238.2 | 492.7 | 397.4 | 691.5 |
| ZNF146 | 1536.2 | 1705.5 | 779 | 828.5 | 604.9 | 1128.5 | 1309.3 | 2323.1 |
| ZNF148 | 1430 | 2096.5 | 1177.8 | 1572.4 | 1258.8 | 1223.4 | 1207.1 | 2043.6 |
| ZNF155 | 113.1 | 135.9 | 95.3 | 86.8 | 94.4 | 84.9 | 110 | 124.3 |
| ZNF155 | 153.6 | 183.5 | 114.5 | 86.3 | 84.6 | 87.4 | 134.1 | 161.8 |
| ZNF155 | 127.4 | 169.2 | 100.4 | 98 | 92.7 | 94.1 | 113.1 | 120.5 |
| ZNF157 | 94.7 | 114.4 | 86.4 | 85.1 | 79 | 84.1 | 102.1 | 118.6 |
| ZNF16 | 311.2 | 396.7 | 217.7 | 191.2 | 161.6 | 195.5 | 316.9 | 370.6 |
| ZNF16 | 92.1 | 100.5 | 96 | 91.7 | 97.8 | 89.8 | 93.4 | 94.9 |
| ZNF16 | 187 | 210.6 | 142.4 | 117 | 114.4 | 141.1 | 166.5 | 212.6 |
| ZNF160 | 192.4 | 263 | 182.6 | 184.9 | 201 | 214.2 | 168 | 255 |
| ZNF160 | 86.6 | 107.9 | 101.7 | 117.8 | 107 | 95 | 97.1 | 95.8 |
| ZNF160 | 274.7 | 391.3 | 189.5 | 304 | 313.6 | 376.7 | 266.5 | 379.8 |
| ZNF161 | 994.9 | 1357.2 | 771.7 | 1096.7 | 832.8 | 935.6 | 969.3 | 1072.2 |
| ZNF165 | 122.1 | 144.9 | 121.4 | 104.7 | 105.8 | 110.5 | 118.1 | 135.9 |
| ZNF167 | 100.9 | 120.3 | 101.7 | 96.4 | 100.7 | 118.9 | 98 | 103.9 |
| ZNF167 | 92.1 | 100.3 | 97 | 92.7 | 91 | 97.2 | 93.1 | 100.5 |
| ZNF167 | 102.9 | 110.3 | 101.5 | 92 | 88 | 97.4 | 102.8 | 96.8 |
| ZNF169 | 138.4 | 173.1 | 141.1 | 118.9 | 113 | 134.1 | 126.8 | 145.8 |
| ZNF17 | 442.8 | 578.6 | 380.7 | 292.6 | 239.1 | 442.9 | 298.5 | 404.7 |
| ZNF174 | 172.9 | 237.9 | 116.5 | 110.5 | 92.3 | 109.9 | 172.6 | 192 |
| ZNF174 | 138.7 | 176 | 140.3 | 127.9 | 115.8 | 153.3 | 153.1 | 199.6 |
| ZNF174 | 126.9 | 152.1 | 108.6 | 99.5 | 103.6 | 92.6 | 119.6 | 137.7 |
| ZNF175 | 351.4 | 377.6 | 206.1 | 167.1 | 151.5 | 207.3 | 273.8 | 358.1 |
| ZNF177 | 182.7 | 235.9 | 220 | 190.5 | 181.7 | 299.2 | 174.4 | 289.8 |
| ZNF179 | 139.6 | 150.6 | 114.5 | 116.3 | 102.7 | 103.5 | 141.3 | 146.3 |
| ZNF18 | 190.6 | 216.4 | 172.1 | 195.7 | 160.7 | 235 | 157.8 | 243.3 |
| ZNF181 | 138.8 | 148.3 | 116.3 | 92.5 | 104.5 | 115.8 | 134.6 | 181.5 |
| ZNF182 | 260.3 | 321 | 286.9 | 344.8 | 295.3 | 666.5 | 219.3 | 286 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ZNF184 | 153.2 | 194.1 | 100.6 | 107.9 | 83.7 | 122.9 | 148.8 | 203.6 |
| ZNF187 | 92.8 | 119.2 | 98.4 | 98.8 | 79.8 | 80.3 | 105.2 | 105.7 |
| ZNF187 | 193.9 | 225.3 | 111.3 | 128.9 | 96.1 | 129.9 | 176 | 207.1 |
| ZNF189 | 806.4 | 919.3 | 568.5 | 478.1 | 343.1 | 589 | 630.8 | 1048.1 |
| ZNF189 | 79.4 | 93.9 | 101.3 | 86.2 | 83.2 | 88.6 | 85.7 | 91 |
| ZNF19 | 95.7 | 114.3 | 86.7 | 81.6 | 78.6 | 87.9 | 80.2 | 89.1 |
| ZNF192 | 121.6 | 149.6 | 104.9 | 91.5 | 88.1 | 91.1 | 117.1 | 136.7 |
| ZNF193 | 235.7 | 259 | 175 | 171.8 | 171.2 | 224.3 | 188.2 | 259.7 |
| ZNF195 | 820 | 1083.7 | 434.6 | 428.1 | 275.2 | 719.6 | 551.9 | 1066.6 |
| ZNF197 | 209.7 | 272.6 | 152.5 | 141.2 | 136.3 | 176 | 215.7 | 276.7 |
| ZNF197 | 121.9 | 131.2 | 103.7 | 88.7 | 88.2 | 95.9 | 107.8 | 111 |
| ZNF197 | 183.3 | 224.7 | 145.5 | 139.5 | 126.6 | 190.6 | 189.1 | 305.7 |
| ZNF2 | 304.9 | 367.4 | 184.5 | 185 | 166.7 | 162.3 | 246.4 | 283.7 |
| ZNF2 | 95 | 111.4 | 85.1 | 89.7 | 79.1 | 94.5 | 90.7 | 99 |
| ZNF20 | 297.2 | 417.4 | 223.6 | 234.7 | 201.4 | 267.2 | 248 | 311 |
| ZNF200 | 108.1 | 104.1 | 90.2 | 88.3 | 83.1 | 81.2 | 98.6 | 109.5 |
| ZNF200 | 345.6 | 490 | 167.9 | 156.4 | 132.8 | 178.2 | 261.1 | 404.7 |
| ZNF200 | 752.8 | 1100.1 | 511.3 | 523.4 | 393.4 | 503.4 | 679.5 | 747.1 |
| ZNF202 | 196 | 256.2 | 198.6 | 114 | 116 | 148.6 | 170 | 242.9 |
| ZNF204 | 70.4 | 76.4 | 85.5 | 80.4 | 83.2 | 90.7 | 77.3 | 77.8 |
| ZNF205 | 88 | 105.6 | 104.3 | 86.4 | 84 | 91.3 | 94 | 102 |
| ZNF205 | 111.2 | 145.4 | 120.2 | 94.5 | 100.7 | 122.1 | 117.5 | 133.1 |
| ZNF206 | 88.3 | 99.3 | 85.3 | 90.2 | 77.7 | 77.6 | 83.2 | 89.2 |
| ZNF207 | 4706.8 | 5499 | 2752.6 | 2449.3 | 1515.2 | 2486.7 | 3675 | 5284.2 |
| ZNF207 | 4915.8 | 6115.8 | 3189.5 | 2618 | 1902.4 | 2857.9 | 4513.3 | 6282.4 |
| ZNF208 | 81.1 | 100.5 | 80.1 | 79.6 | 83.4 | 91.5 | 89.1 | 94.8 |
| ZNF21 | 123.8 | 142.9 | 116.6 | 100.1 | 93.3 | 95.3 | 139.3 | 139.1 |
| ZNF211 | 307.8 | 324.2 | 220 | 205.5 | 185.8 | 268.2 | 240 | 345 |
| ZNF212 | 305.3 | 418.3 | 200.5 | 259.2 | 210.9 | 293.9 | 334.5 | 429.3 |
| ZNF213 | 313.1 | 384.6 | 318.8 | 217.5 | 184.7 | 188.5 | 303.5 | 351.2 |
| ZNF214 | 77.6 | 90.1 | 95.7 | 92.2 | 86.1 | 85.5 | 78.1 | 86.7 |
| ZNF215 | 222.6 | 238.7 | 141.9 | 117.6 | 105.3 | 131 | 151.6 | 224.1 |
| ZNF217 | 2024.6 | 3037.1 | 725.6 | 1059.9 | 697.6 | 1782.5 | 1682.6 | 2577.7 |
| ZNF218 | 93.1 | 94.6 | 106.7 | 87.5 | 95.5 | 96.5 | 98 | 96.1 |
| ZNF219 | 133.4 | 156.7 | 145.8 | 123.4 | 131.2 | 151.7 | 133.8 | 197.5 |
| ZNF22 | 2270.4 | 2814.9 | 953.1 | 805.9 | 756.6 | 1189.6 | 1686.6 | 2146.9 |
| ZNF221 | 90.8 | 109.1 | 83.7 | 83.3 | 76.7 | 85 | 91.9 | 101.2 |
| ZNF222 | 129.2 | 130.6 | 109.8 | 109.2 | 90.9 | 103.6 | 119.6 | 178.7 |
| ZNF223 | 424.4 | 458 | 228.1 | 349.9 | 361.2 | 260.6 | 362.6 | 382.8 |
| ZNF224 | 219.9 | 254.8 | 163.3 | 142 | 117.9 | 177.2 | 168.8 | 243.4 |
| ZNF225 | 170.5 | 209.3 | 154.7 | 144.1 | 141.1 | 200.7 | 164.1 | 193.5 |
| ZNF226 | 157.1 | 160.3 | 103.6 | 102.4 | 85.1 | 121 | 149.4 | 194.3 |
| ZNF226 | 162 | 174.6 | 119 | 124.6 | 111.3 | 128.2 | 158.2 | 220 |
| ZNF227 | 222 | 252.9 | 133.4 | 127.1 | 108.5 | 136.4 | 229.4 | 343.1 |
| ZNF228 | 121.5 | 121.9 | 98.7 | 96.6 | 91.2 | 94.6 | 110.7 | 113.2 |
| ZNF229 | 80.2 | 93.2 | 98 | 77.9 | 83.4 | 79.1 | 80.7 | 92.8 |
| ZNF23 | 145.1 | 186.4 | 90.4 | 94.6 | 80.1 | 109.7 | 151.6 | 181.9 |
| ZNF230 | 208.7 | 275.6 | 188.5 | 174.6 | 154.3 | 272.4 | 157.9 | 204.3 |
| ZNF232 | 170.6 | 179.5 | 133.5 | 82.6 | 89 | 83.5 | 164.2 | 229 |
| ZNF233 | 80.7 | 86.9 | 87.5 | 88.5 | 75 | 84.1 | 82.4 | 88.2 |

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|---------|--------|--------|-------|-------|-------|--------|--------|--------|
| ZNF234 | 333.1 | 466.2 | 184.2 | 182 | 178.8 | 155.4 | 304.7 | 386 |
| ZNF235 | 158.1 | 186.8 | 172.8 | 146 | 137.1 | 186.1 | 156.1 | 254.2 |
| ZNF236 | 136.9 | 177.2 | 125.5 | 137.5 | 128.9 | 158.3 | 127.7 | 142.3 |
| ZNF238 | 93.6 | 103.2 | 106.6 | 105.6 | 103 | 106.8 | 88.4 | 98.3 |
| ZNF238 | 80.1 | 94.1 | 83.5 | 82.2 | 78.9 | 76.4 | 83.4 | 81.9 |
| ZNF238 | 121.1 | 133.8 | 120.5 | 107.8 | 97.4 | 108.1 | 113.9 | 140.4 |
| ZNF239 | 366.5 | 406.3 | 249.3 | 205.9 | 150.4 | 262.6 | 241.2 | 287.7 |
| ZNF24 | 239.2 | 338.2 | 185.2 | 148.3 | 136.7 | 225.7 | 187.1 | 265.4 |
| ZNF248 | 156.2 | 174.6 | 107.8 | 90.1 | 100.4 | 121.7 | 139.7 | 162.7 |
| ZNF25 | 682 | 818.4 | 361.5 | 327.9 | 293.5 | 379.6 | 471.5 | 637.5 |
| ZNF250 | 298.5 | 414.2 | 237.9 | 188.6 | 174.5 | 195.8 | 299.2 | 331.8 |
| ZNF253 | 81.7 | 96.6 | 91.5 | 74.9 | 91.5 | 81.5 | 82.5 | 97.6 |
| ZNF254 | 208.3 | 247.6 | 123.8 | 137.8 | 121.2 | 195.9 | 178.1 | 231.2 |
| ZNF256 | 245.8 | 337.1 | 171.3 | 128.6 | 104.7 | 144.8 | 201.1 | 249.1 |
| ZNF257 | 77.8 | 79.7 | 96.9 | 97.3 | 81.8 | 91.4 | 81.5 | 80.1 |
| ZNF259 | 581.3 | 721.6 | 228.3 | 200.1 | 151.6 | 303.9 | 466.4 | 732.4 |
| ZNF26 | 372.6 | 475 | 326.8 | 334 | 310.9 | 539.2 | 282.8 | 418 |
| ZNF263 | 1057.1 | 1140.7 | 484.1 | 349.2 | 323 | 431.2 | 960 | 1401.7 |
| ZNF264 | 329 | 453.9 | 156.4 | 152.4 | 147.1 | 132.8 | 358.2 | 472.2 |
| ZNF265 | 424.5 | 565.3 | 236.7 | 278.2 | 273.2 | 423.2 | 279.3 | 329.8 |
| ZNF265 | 1930.7 | 2202.7 | 759.8 | 941.9 | 686.7 | 1354.8 | 1042.3 | 1724.5 |
| ZNF266 | 359.5 | 456.6 | 178.7 | 194.7 | 172.5 | 191 | 327.8 | 495.5 |
| ZNF266 | 171.7 | 188.2 | 129.7 | 116.4 | 115.4 | 146.6 | 167.8 | 293.3 |
| ZNF266 | 96.3 | 94.6 | 111.9 | 107.8 | 98 | 98.7 | 97.9 | 109.6 |
| ZNF267 | 89.7 | 115 | 93.1 | 73.1 | 78.5 | 83.5 | 88.2 | 103.6 |
| ZNF268 | 88.7 | 95 | 98.7 | 89.5 | 79.3 | 85 | 88.8 | 97.5 |
| ZNF268 | 82.1 | 92.7 | 90.2 | 88.2 | 81.9 | 96.5 | 82 | 87.9 |
| ZNF271 | 495.8 | 580.3 | 276.1 | 247.5 | 227.5 | 402.1 | 429.1 | 523.7 |
| ZNF273 | 181.9 | 202.1 | 119.1 | 135.6 | 109.7 | 181.2 | 162 | 220.2 |
| ZNF273 | 88.2 | 84.3 | 111.7 | 99.6 | 82 | 101.2 | 80.5 | 77 |
| ZNF274 | 1144.7 | 1391.2 | 966.3 | 667.5 | 624.1 | 891.3 | 976.2 | 1539.9 |
| ZNF274 | 250.5 | 317.7 | 94.5 | 93.6 | 96.6 | 98 | 205.2 | 267.2 |
| ZNF274 | 378.4 | 527.1 | 246.9 | 175.5 | 162.5 | 211.4 | 311.9 | 424.4 |
| ZNF275 | 482.5 | 665.7 | 418.7 | 584.7 | 467.5 | 573.4 | 439.7 | 587.8 |
| ZNF275 | 105.4 | 95.1 | 88.3 | 84.4 | 84.4 | 82.2 | 94.5 | 88.5 |
| ZNF276 | 112.5 | 135.2 | 106.3 | 91.3 | 83.2 | 95.7 | 114.6 | 130.2 |
| ZNF277 | 1101.5 | 1510 | 629.7 | 794.7 | 653.8 | 959 | 1062.9 | 1568.7 |
| ZNF278 | 136.2 | 179.1 | 118.4 | 136.6 | 110 | 114.2 | 127.1 | 146 |
| ZNF278 | 78.9 | 94.1 | 83.7 | 77.7 | 76 | 74.2 | 79.8 | 68.1 |
| ZNF28 | 112.8 | 148.6 | 91.2 | 91.9 | 85.1 | 82.1 | 115.9 | 134.3 |
| ZNF284 | 85.9 | 104.2 | 87.9 | 80.1 | 79.5 | 87.1 | 84.3 | 88.8 |
| ZNF285A | 156.4 | 177 | 148 | 125.8 | 108.7 | 122.8 | 129.2 | 150.3 |
| ZNF286 | 140.9 | 167 | 129.4 | 118.6 | 101.8 | 127.6 | 127.6 | 175.7 |
| ZNF287 | 71.6 | 82.9 | 82.8 | 84.6 | 78.1 | 88.4 | 78.5 | 83.9 |
| ZNF289 | 474.5 | 631.6 | 280.4 | 279.7 | 269.2 | 284.7 | 375.5 | 386.5 |
| ZNF291 | 181.3 | 241.7 | 136.4 | 162.6 | 181.7 | 215.8 | 183.9 | 207 |
| ZNF294 | 95.5 | 106.7 | 111.6 | 102.2 | 92.6 | 105.2 | 98.7 | 97 |
| ZNF295 | 231.1 | 284.9 | 223.6 | 215.7 | 186.3 | 288.1 | 215 | 414.3 |
| ZNF297B | 392.5 | 474.5 | 175.8 | 289.9 | 246.1 | 280.5 | 329.8 | 595.6 |
| ZNF3 | 189.2 | 234.3 | 137.2 | 128.7 | 139.3 | 147.3 | 169.1 | 216.8 |

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|---------|--------|--------|-------|--------|-------|--------|--------|--------|
| ZNF3 | 269.8 | 332.5 | 144.2 | 120.3 | 130.2 | 136 | 263 | 309.4 |
| ZNF3 | 161.9 | 237.4 | 111.8 | 102 | 115.6 | 132.1 | 154.5 | 188.8 |
| ZNF3 | 84 | 88.2 | 91 | 93.3 | 91.4 | 90.5 | 85.7 | 87.9 |
| ZNF30 | 164.9 | 198.8 | 132.9 | 163.1 | 134.9 | 213.8 | 154 | 191.1 |
| ZNF300 | 74.6 | 80.4 | 87.5 | 83.2 | 80.5 | 86.4 | 79.9 | 88.9 |
| ZNF302 | 86.7 | 95 | 90.2 | 85 | 83.5 | 84.9 | 83.7 | 95.1 |
| ZNF304 | 141.4 | 147 | 111.6 | 115.3 | 99.6 | 106.2 | 126.9 | 151.5 |
| ZNF306 | 156.6 | 185.8 | 130.5 | 110.8 | 110.7 | 150.7 | 138.2 | 162.2 |
| ZNF307 | 224.6 | 329.6 | 178.5 | 201.7 | 194.6 | 239.1 | 197.9 | 208.1 |
| ZNF31 | 98.9 | 118.3 | 97.8 | 82.9 | 85.7 | 94.8 | 92 | 107.9 |
| ZNF311 | 104.5 | 116 | 97.5 | 110.3 | 108.5 | 141.6 | 87.3 | 107.7 |
| ZNF312 | 87.7 | 116.8 | 81.3 | 81.6 | 80 | 76.7 | 105.8 | 120.3 |
| ZNF313 | 2229.9 | 2668.8 | 924.5 | 1097.3 | 799.8 | 1133.7 | 2130.8 | 3367.4 |
| ZNF317 | 571.9 | 717.7 | 315.5 | 234.3 | 205.6 | 278.8 | 497.2 | 481.2 |
| ZNF318 | 249.6 | 381.3 | 173.4 | 235.9 | 189.6 | 337.7 | 268.8 | 524.4 |
| ZNF319 | 446.6 | 549.9 | 354.4 | 302.4 | 248 | 316.1 | 432.4 | 635.4 |
| ZNF32 | 117.7 | 142.4 | 92.1 | 85 | 91.6 | 100.7 | 123.9 | 151.8 |
| ZNF32 | 407.4 | 526.4 | 236 | 186.9 | 136.8 | 183 | 318.7 | 487.6 |
| ZNF32 | 290.9 | 317.7 | 184.3 | 141.6 | 130 | 142.8 | 209.9 | 274.5 |
| ZNF320 | 125.3 | 155.2 | 101 | 91.2 | 87.2 | 96.5 | 133.2 | 141.1 |
| ZNF322A | 159.5 | 193.1 | 93.5 | 91.7 | 83.9 | 129.4 | 139.9 | 152.1 |
| ZNF322B | 120.6 | 136.5 | 95.8 | 100.2 | 76.2 | 99.1 | 117.8 | 140.2 |
| ZNF323 | 153.5 | 194.8 | 129.3 | 148.4 | 121.4 | 140.7 | 140.6 | 181.3 |
| ZNF323 | 105.9 | 113.1 | 98.3 | 92.6 | 84.3 | 103.7 | 102.8 | 104.4 |
| ZNF324 | 220.9 | 265.5 | 244.9 | 230.9 | 201.8 | 350.5 | 181.7 | 255.2 |
| ZNF326 | 182.9 | 234.7 | 106 | 102.2 | 104.9 | 92.1 | 158.2 | 215.4 |
| ZNF326 | 87.8 | 89.5 | 92.4 | 95.9 | 93.5 | 88.8 | 82.2 | 87.2 |
| ZNF326 | 280 | 357.1 | 133.1 | 129 | 117 | 104.3 | 216.8 | 275.1 |
| ZNF329 | 230.8 | 259.4 | 197.1 | 156 | 141.4 | 180.1 | 243.3 | 435.4 |
| ZNF330 | 594.1 | 656 | 234.1 | 208.3 | 177.6 | 269.6 | 444.3 | 719.8 |
| ZNF331 | 173.9 | 166.6 | 111 | 100.7 | 95.7 | 105.6 | 135.4 | 183.7 |
| ZNF331 | 139.2 | 180.6 | 104.8 | 82.1 | 85.3 | 92.8 | 133.1 | 163.5 |
| ZNF331 | 112.1 | 117.2 | 88.6 | 91.3 | 82.8 | 101.1 | 91.3 | 119.6 |
| ZNF333 | 164.1 | 194.1 | 127.4 | 120.3 | 119.2 | 158 | 150.4 | 247.5 |
| ZNF334 | 75.5 | 81.3 | 77.8 | 81.4 | 86.9 | 77.6 | 86.2 | 92.3 |
| ZNF334 | 103.5 | 110.4 | 107.4 | 87.7 | 86.2 | 89.2 | 96.8 | 114.6 |
| ZNF335 | 119.1 | 129.2 | 115.9 | 99.7 | 91.6 | 120.9 | 113.6 | 135.8 |
| ZNF336 | 131 | 178.6 | 109.1 | 130.5 | 105.2 | 131.3 | 141 | 158.2 |
| ZNF337 | 288.6 | 325 | 348.3 | 290.2 | 283.9 | 433.1 | 211.9 | 319.3 |
| ZNF33A | 278.4 | 305.3 | 129.9 | 131.5 | 120.9 | 185.5 | 223.7 | 293.3 |
| ZNF33A | 116.1 | 132 | 94.4 | 106.8 | 95.6 | 107.7 | 114 | 124.7 |
| ZNF34 | 205.4 | 247.8 | 197.5 | 158.3 | 119.6 | 170 | 187.8 | 217.8 |
| ZNF341 | 174.9 | 172.8 | 181.4 | 184.7 | 152.9 | 190 | 174.3 | 251 |
| ZNF342 | 832.7 | 1106.5 | 569.8 | 448.2 | 350.9 | 351.4 | 731.5 | 811.1 |
| ZNF343 | 138.6 | 145.1 | 100.3 | 78.3 | 75.9 | 104.2 | 114.9 | 144.8 |
| ZNF345 | 94.2 | 99.6 | 104.8 | 87.6 | 93.1 | 94.9 | 90.7 | 94.1 |
| ZNF346 | 129.2 | 137.5 | 136.3 | 136.5 | 137.7 | 162.8 | 122.4 | 137.9 |
| ZNF347 | 97.6 | 107.4 | 93.6 | 91 | 80.8 | 94.7 | 93.9 | 104.1 |
| ZNF35 | 361.6 | 467.5 | 304.7 | 277.2 | 227.3 | 395.1 | 339.9 | 397.1 |
| ZNF350 | 187 | 209 | 187.2 | 138.7 | 143.5 | 174.8 | 159.6 | 196.5 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| ZNF354A | 215.8 | 196.8 | 120 | 128.8 | 107.9 | 141 | 177.3 | 224.6 |
| ZNF354B | 79.1 | 91.9 | 84.8 | 88.6 | 95 | 95.4 | 84.2 | 96.4 |
| ZNF354C | 81.5 | 96.5 | 87.8 | 72.7 | 85.2 | 76.9 | 98.8 | 89.4 |
| ZNF358 | 507.2 | 657.9 | 233.6 | 168.5 | 163.4 | 155.8 | 461.5 | 422.1 |
| ZNF364 | 1265.6 | 1575 | 987.4 | 880.6 | 727.1 | 707.5 | 1296.3 | 1582.8 |
| ZNF365 | 80.9 | 102.2 | 84.8 | 87.2 | 85.5 | 90.5 | 83.6 | 90 |
| ZNF365 | 88.4 | 88.5 | 95.7 | 84.5 | 83.9 | 82.9 | 85.4 | 102 |
| ZNF365 | 81.7 | 98.8 | 100.2 | 92.4 | 92.8 | 91 | 85.5 | 91.3 |
| ZNF365 | 84.7 | 86.6 | 93.3 | 88.5 | 87.6 | 76 | 80.6 | 90.5 |
| ZNF366 | 171.2 | 224.2 | 111.9 | 115.2 | 97.1 | 105.3 | 190.9 | 337.6 |
| ZNF367 | 152.6 | 196.6 | 109.5 | 96 | 94 | 102.5 | 122.6 | 137.9 |
| ZNF37A | 95.3 | 112.4 | 104.8 | 91.2 | 89.5 | 102.4 | 95.6 | 94.4 |
| ZNF37A | 102.5 | 107.2 | 85.9 | 86.7 | 75.4 | 81.4 | 98.5 | 103.7 |
| ZNF37A | 125.5 | 133 | 100.8 | 93.2 | 83.7 | 88.3 | 129.7 | 115.2 |
| ZNF382 | 84.3 | 84.5 | 92.5 | 79.9 | 76.1 | 84.5 | 82.8 | 97.6 |
| ZNF383 | 179.1 | 199.4 | 117 | 113.9 | 102.6 | 121.6 | 156.9 | 249.4 |
| ZNF384 | 131.6 | 158.5 | 99.1 | 97.4 | 90.2 | 98.9 | 128.5 | 136 |
| ZNF384 | 162 | 207 | 173.3 | 160.5 | 136.6 | 218.8 | 144.9 | 238.8 |
| ZNF385 | 137.9 | 189.6 | 187.4 | 227 | 205 | 313.2 | 137.8 | 217.9 |
| ZNF394 | 1553.9 | 1492.4 | 1037.8 | 1317.8 | 1319.8 | 1109.3 | 1420.9 | 2655.2 |
| ZNF395 | 338.9 | 446.6 | 307.1 | 399 | 385.8 | 504.1 | 280.6 | 426.9 |
| ZNF396 | 117 | 138 | 108.6 | 106.4 | 97.1 | 122.6 | 122.6 | 132.2 |
| ZNF397 | 150 | 179.7 | 115.9 | 119.1 | 99 | 135.6 | 127.9 | 150.4 |
| ZNF398 | 216 | 255.5 | 110.4 | 97.2 | 92.8 | 102.4 | 190.2 | 256.2 |
| ZNF398 | 227.3 | 244.7 | 211.2 | 177.5 | 163.9 | 229.6 | 217.7 | 359.8 |
| ZNF403 | 1097.4 | 1406 | 1009.1 | 1245.6 | 1107 | 1873.2 | 1022.6 | 1777.9 |
| ZNF404 | 89.9 | 103.9 | 92.1 | 87.1 | 96 | 88.3 | 94.3 | 100.6 |
| ZNF406 | 110.5 | 125.8 | 89.8 | 85.1 | 90.4 | 93.6 | 117 | 108.9 |
| ZNF406 | 120.8 | 135.8 | 92.6 | 83 | 90.7 | 91.9 | 123.3 | 145.4 |
| ZNF407 | 76.1 | 89 | 90.6 | 92.5 | 88.4 | 85 | 76.7 | 82.3 |
| ZNF408 | 141.7 | 166.4 | 152.8 | 138.6 | 109.1 | 124.2 | 142.1 | 233.6 |
| ZNF41 | 97.9 | 111 | 90.2 | 89.4 | 83.3 | 78.6 | 94.8 | 90.1 |
| ZNF41 | 92.2 | 113.3 | 93.7 | 76.7 | 81.8 | 74.4 | 108 | 108.8 |
| ZNF41 | 97.4 | 121.2 | 104.9 | 105.8 | 99.8 | 121.7 | 105.5 | 119.6 |
| ZNF410 | 979.5 | 1258 | 608.3 | 366.9 | 285.5 | 524.2 | 796.5 | 1146.3 |
| ZNF414 | 115.2 | 142.8 | 137.2 | 111.1 | 119.3 | 113 | 118.9 | 166.3 |
| ZNF415 | 93.5 | 109.4 | 113.5 | 102.2 | 104.2 | 100.6 | 96 | 112.6 |
| ZNF416 | 196.8 | 291.8 | 207.8 | 161.2 | 140.3 | 197.6 | 194.8 | 251.8 |
| ZNF417 | 145.8 | 188.7 | 152.4 | 127.8 | 125.6 | 106.3 | 126.1 | 154.2 |
| ZNF418 | 96.6 | 103.1 | 86.4 | 83.8 | 76 | 85.3 | 97.6 | 93.5 |
| ZNF419 | 317.3 | 424.7 | 192.2 | 183.2 | 147.8 | 213.8 | 268.4 | 374.4 |
| ZNF42 | 528.9 | 454.6 | 452.7 | 412.1 | 440.1 | 502.7 | 313.6 | 338.3 |
| ZNF42 | 141.4 | 133.9 | 103.1 | 94 | 88.1 | 81.8 | 103.6 | 127.6 |
| ZNF420 | 108.8 | 116.2 | 98.4 | 92.4 | 87.6 | 91.1 | 92.5 | 138.2 |
| ZNF423 | 80.6 | 84.1 | 99.7 | 91.1 | 83.6 | 88.7 | 82.5 | 93 |
| ZNF425 | 126.3 | 143.6 | 99.4 | 126.5 | 114 | 128.5 | 156.4 | 197.8 |
| ZNF426 | 180 | 209.3 | 144.6 | 152.3 | 121.7 | 151.8 | 158.2 | 211.7 |
| ZNF429 | 174.3 | 212.2 | 108.9 | 98.1 | 96.9 | 96.2 | 138 | 183.7 |
| ZNF43 | 91 | 110.2 | 95.2 | 87.6 | 79 | 82.5 | 90.4 | 105.4 |
| ZNF430 | 4974.3 | 5489.1 | 1573.5 | 2824 | 2400.4 | 1855.5 | 4882.3 | 4861.1 |

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|---------|-------|--------|-------|-------|-------|-------|-------|-------|
| ZNF431 | 293.9 | 338.4 | 129.4 | 131.7 | 145.4 | 170.6 | 245.4 | 341.5 |
| ZNF432 | 137 | 166.8 | 114.3 | 104.8 | 111.8 | 115.2 | 130.3 | 160.2 |
| ZNF433 | 208.6 | 223.8 | 135.1 | 138.8 | 148.4 | 199.3 | 186.3 | 271.1 |
| ZNF434 | 568.1 | 762 | 383.7 | 343.7 | 280.6 | 468.8 | 576.9 | 846.4 |
| ZNF435 | 154.5 | 179.5 | 121.9 | 114.5 | 112.8 | 131.3 | 129.2 | 215.4 |
| ZNF436 | 136.7 | 172.3 | 94.1 | 90.9 | 84.2 | 95 | 125.3 | 148.4 |
| ZNF436 | 86.8 | 88.5 | 85 | 86.2 | 80.8 | 80.6 | 82.7 | 82.7 |
| ZNF436 | 126.1 | 130.1 | 114.4 | 93.9 | 77.9 | 98.5 | 115.6 | 167.7 |
| ZNF438 | 834.4 | 1164.5 | 499.1 | 372.7 | 283 | 493.7 | 616.4 | 752 |
| ZNF439 | 167.5 | 208.7 | 139.5 | 154 | 145.7 | 202.8 | 143.2 | 190.1 |
| ZNF44 | 83.4 | 84 | 96.5 | 78.5 | 83.2 | 80.4 | 83.5 | 92.9 |
| ZNF440L | 117.4 | 152.2 | 120.3 | 140.7 | 137 | 147.3 | 112.9 | 133 |
| ZNF441 | 114.1 | 126.2 | 110.6 | 93.7 | 82.6 | 104.1 | 105.3 | 136.8 |
| ZNF442 | 176.3 | 208.1 | 138.3 | 140 | 154.3 | 153.1 | 155.4 | 183 |
| ZNF443 | 346.5 | 381.8 | 278.8 | 255.9 | 200.3 | 365.5 | 281.4 | 452 |
| ZNF444 | 196.5 | 227.6 | 152.7 | 133.5 | 126.6 | 138.1 | 184.2 | 483.2 |
| ZNF445 | 91.7 | 89.8 | 88.1 | 87.5 | 83.9 | 87.5 | 87.2 | 97.6 |
| ZNF446 | 157.7 | 196.6 | 207.3 | 149 | 145.7 | 169.3 | 145.6 | 221.8 |
| ZNF447 | 92.9 | 117 | 96.2 | 85.6 | 85.9 | 90.7 | 102.2 | 105.6 |
| ZNF449 | 92.1 | 110 | 108.2 | 96.7 | 91.1 | 102.4 | 111 | 117.4 |
| ZNF45 | 379.7 | 413.2 | 245.8 | 239.1 | 223.4 | 292 | 330.9 | 516.7 |
| ZNF451 | 86.7 | 96.7 | 85 | 81.4 | 79.7 | 80.9 | 85.4 | 102.6 |
| ZNF451 | 516.7 | 724.3 | 313 | 468.3 | 453.3 | 728.3 | 483.4 | 932.2 |
| ZNF451 | 167.6 | 209.2 | 105.8 | 105.1 | 125.6 | 144.8 | 154.7 | 316.2 |
| ZNF452 | 83.4 | 95 | 88.4 | 81.8 | 82.1 | 83.4 | 78.1 | 89.6 |
| ZNF454 | 127.2 | 149.4 | 83.8 | 86.2 | 79.4 | 99 | 105.6 | 145.8 |
| ZNF460 | 149.9 | 167.7 | 109.8 | 103.1 | 88.7 | 106.1 | 144.6 | 196.7 |
| ZNF462 | 133.8 | 157.4 | 145.7 | 90.7 | 100.5 | 99 | 120.3 | 147.9 |
| ZNF467 | 251 | 283.4 | 213.6 | 271.4 | 280.8 | 256.2 | 191.3 | 144.6 |
| ZNF468 | 91.6 | 108.1 | 91.3 | 81.1 | 86.6 | 100 | 95.8 | 112.8 |
| ZNF471 | 76.1 | 94.2 | 96.3 | 83.3 | 85.1 | 90.3 | 77.4 | 96.9 |
| ZNF473 | 395.2 | 525.9 | 401.4 | 310 | 226.4 | 352.1 | 382.4 | 545 |
| ZNF473 | 113.7 | 148.4 | 94.7 | 97.1 | 91.3 | 113.8 | 96.3 | 112.9 |
| ZNF474 | 82.4 | 95.3 | 96.2 | 90.6 | 87.2 | 97.6 | 85.8 | 92.4 |
| ZNF480 | 453.2 | 583.8 | 318.5 | 248.2 | 193.2 | 413.2 | 362.7 | 500.8 |
| ZNF482 | 136.7 | 168.3 | 111.2 | 94.9 | 93.2 | 103.8 | 132.9 | 169.1 |
| ZNF483 | 98.8 | 101.4 | 80.3 | 81.1 | 73.8 | 84.9 | 84.1 | 96.6 |
| ZNF483 | 356.9 | 344.5 | 251.8 | 351.8 | 381.1 | 261.8 | 320.6 | 504 |
| ZNF483 | 125.3 | 144.8 | 106.2 | 93.2 | 87.7 | 96.8 | 109.4 | 139.2 |
| ZNF484 | 139.6 | 171.5 | 137 | 121.6 | 115.2 | 163.5 | 140 | 178.8 |
| ZNF485 | 166.7 | 190.3 | 90.1 | 90.6 | 87.3 | 89.7 | 148.5 | 185.9 |
| ZNF490 | 101.9 | 110.3 | 89 | 84.1 | 85.9 | 90.4 | 106 | 102.3 |
| ZNF491 | 102.8 | 99.2 | 97.6 | 87.4 | 88.9 | 91.8 | 90.4 | 96.1 |
| ZNF493 | 107.5 | 107.3 | 98 | 101.9 | 83.5 | 102.6 | 105.4 | 127.1 |
| ZNF493 | 87 | 92.7 | 97.9 | 93 | 95.1 | 98.5 | 82.9 | 108.6 |
| ZNF496 | 102.7 | 126.4 | 95.8 | 89.1 | 91.9 | 89.8 | 103 | 114.5 |
| ZNF497 | 115.6 | 128.5 | 97.8 | 95.1 | 84.7 | 86.1 | 112.6 | 117.3 |
| ZNF498 | 119.9 | 152.8 | 90.7 | 91.4 | 84.6 | 79.7 | 124.4 | 172.1 |
| ZNF499 | 342.5 | 454.7 | 183.9 | 111 | 111.6 | 113.6 | 307.3 | 290.8 |
| ZNF500 | 218.8 | 244.8 | 216.9 | 221.7 | 205.5 | 345.8 | 176.3 | 279.1 |

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|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| ZNF501 | 76.8 | 95.9 | 84.4 | 75 | 85.9 | 77.2 | 90.7 | 100.5 |
| ZNF502 | 96.1 | 98.2 | 92.8 | 85.9 | 83.7 | 83.5 | 84.1 | 90.4 |
| ZNF503 | 283.2 | 331.3 | 243 | 178.2 | 163.2 | 218.3 | 317.3 | 505.7 |
| ZNF507 | 151.8 | 162.7 | 117.6 | 139.5 | 116.3 | 133 | 123.8 | 131.5 |
| ZNF508 | 1709.7 | 2091.4 | 1167 | 1069.9 | 740.3 | 1111.1 | 1587.2 | 2169.7 |
| ZNF509 | 124.4 | 129 | 127.8 | 124.7 | 138.2 | 167.8 | 113.6 | 129.3 |
| ZNF510 | 114.1 | 139 | 108.1 | 101.6 | 96.6 | 116.9 | 98.1 | 107.2 |
| ZNF511 | 1618.3 | 2072.9 | 723.3 | 681.5 | 488.5 | 614.7 | 1669.1 | 1831.6 |
| ZNF512 | 874.1 | 1006.6 | 951.2 | 1120.9 | 825.4 | 1646.9 | 620.2 | 1193.4 |
| ZNF513 | 156.3 | 188.7 | 117 | 110.6 | 105.4 | 119.6 | 168.5 | 196.4 |
| ZNF514 | 195.9 | 236.2 | 196.3 | 148.7 | 169 | 184.3 | 150 | 205.5 |
| ZNF517 | 94.6 | 94.7 | 99.4 | 81.4 | 91.2 | 99 | 90.1 | 97.3 |
| ZNF518 | 337.9 | 446 | 194.9 | 237.3 | 207.5 | 318.3 | 323.7 | 449.2 |
| ZNF519 | 122.4 | 138.5 | 98.7 | 89.6 | 84.4 | 92.5 | 107.3 | 129 |
| ZNF519 | 390.6 | 474.7 | 251.9 | 264.7 | 277.9 | 240.8 | 282.7 | 329.2 |
| ZNF521 | 1181.4 | 1372.1 | 470.9 | 400.1 | 426.5 | 587.3 | 954.2 | 1497.9 |
| ZNF524 | 321 | 434.1 | 344.8 | 285.1 | 251 | 322.4 | 354.3 | 491.1 |
| ZNF526 | 300.7 | 315.2 | 125.3 | 118.9 | 111.4 | 135 | 258.7 | 308.5 |
| ZNF528 | 106.8 | 112.1 | 100.9 | 94.5 | 90 | 87.8 | 106.5 | 104.8 |
| ZNF529 | 438.9 | 559.8 | 307.4 | 382.3 | 293 | 414.9 | 376.6 | 546.6 |
| ZNF530 | 114.6 | 126 | 119 | 112.6 | 93 | 107.3 | 120.3 | 124.3 |
| ZNF532 | 191 | 249.8 | 127.5 | 171.9 | 139.2 | 179.9 | 166.5 | 251.2 |
| ZNF533 | 82.9 | 84.7 | 94.7 | 85.7 | 74.6 | 88.1 | 79.5 | 81.1 |
| ZNF536 | 152.2 | 141.3 | 107.6 | 86.5 | 85.7 | 95.5 | 105.3 | 138.6 |
| ZNF537 | 649 | 747 | 404.8 | 367.8 | 293.8 | 431.8 | 526.6 | 644.2 |
| ZNF539 | 142 | 160.9 | 98.6 | 110.2 | 99.9 | 122.7 | 128.7 | 184.5 |
| ZNF540 | 85.2 | 91.2 | 87.1 | 87 | 80.2 | 72.9 | 78.2 | 84.4 |
| ZNF542 | 88.5 | 113.1 | 89.6 | 85.3 | 81.7 | 86.6 | 89 | 99 |
| ZNF543 | 169.1 | 184.4 | 144.1 | 164.8 | 124 | 161.9 | 150.6 | 216 |
| ZNF544 | 102.4 | 110.3 | 90.3 | 88.1 | 78.8 | 81.8 | 96.6 | 112.3 |
| ZNF545 | 223.9 | 271.2 | 189 | 136.6 | 113.5 | 146.9 | 196.7 | 226.6 |
| ZNF546 | 75.5 | 80.5 | 86.2 | 81.5 | 83.5 | 87 | 83.3 | 84.3 |
| ZNF547 | 86.7 | 95.4 | 87.3 | 84.5 | 76.9 | 89 | 80.2 | 85.3 |
| ZNF548 | 288.7 | 323 | 270.1 | 330.9 | 282.4 | 428.4 | 231 | 343.7 |
| ZNF549 | 5723.3 | 5068.3 | 3896 | 5974.5 | 5710.4 | 4118.3 | 4609.4 | 9564.7 |
| ZNF550 | 117.8 | 142.2 | 115.6 | 115.4 | 100.7 | 107.7 | 119.5 | 137.3 |
| ZNF551 | 142.3 | 211.3 | 130.6 | 117.9 | 114.7 | 127.2 | 128.3 | 193.3 |
| ZNF552 | 112.2 | 144.3 | 103.1 | 91.8 | 88.1 | 90.4 | 113.7 | 125.1 |
| ZNF553 | 106.4 | 136.7 | 96.8 | 91.6 | 79.1 | 94.2 | 102.6 | 132.9 |
| ZNF554 | 96.6 | 106.8 | 102.3 | 97.3 | 91.9 | 86.8 | 93.4 | 97.2 |
| ZNF555 | 108.7 | 130.2 | 111.6 | 95.5 | 92.7 | 99.7 | 103.3 | 150.4 |
| ZNF556 | 195.7 | 245.1 | 100.1 | 95.5 | 105.4 | 109.3 | 167.4 | 210.6 |
| ZNF557 | 101.1 | 121.4 | 86.8 | 86.2 | 84.7 | 81.3 | 107.1 | 132.4 |
| ZNF557 | 436.5 | 439.8 | 196.3 | 159.6 | 193.9 | 170.3 | 347 | 524.2 |
| ZNF558 | 146.4 | 171.3 | 113.8 | 150.1 | 105.4 | 175.3 | 115.8 | 207.9 |
| ZNF559 | 448.2 | 600.8 | 217.3 | 203.6 | 155.4 | 244.7 | 369.9 | 552.3 |
| ZNF560 | 102 | 104.3 | 87.8 | 87.3 | 92.4 | 90.7 | 109.1 | 106.1 |
| ZNF561 | 129 | 159.6 | 99.5 | 101.2 | 89.4 | 104.3 | 131.8 | 149.3 |
| ZNF562 | 568.6 | 679 | 317.7 | 373.4 | 270 | 334.3 | 504.6 | 777.1 |
| ZNF563 | 112.4 | 135.3 | 101 | 100.5 | 109.1 | 105.2 | 103.9 | 119.5 |

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|---------|--------|--------|--------|--------|-------|--------|--------|--------|
| ZNF564 | 337.5 | 449.8 | 419.6 | 358.8 | 283.5 | 506.4 | 307 | 435 |
| ZNF565 | 262.9 | 314.6 | 148.2 | 136.4 | 122.6 | 136.6 | 229.9 | 292 |
| ZNF566 | 150.6 | 177.1 | 141.2 | 125.6 | 120.7 | 125.6 | 114.7 | 158.3 |
| ZNF567 | 78.2 | 83.9 | 86.5 | 85.5 | 71.8 | 77.4 | 81.4 | 86.1 |
| ZNF568 | 97.7 | 104.7 | 102.6 | 88.2 | 94.9 | 96.4 | 91.5 | 103.4 |
| ZNF569 | 99.4 | 113.5 | 96.8 | 91.6 | 86.8 | 92.5 | 107.2 | 109.5 |
| ZNF570 | 113.4 | 123.9 | 102.8 | 93.4 | 86.9 | 100.1 | 105 | 128.4 |
| ZNF571 | 107.3 | 114.4 | 90.2 | 89 | 81.4 | 86.3 | 92.7 | 124.9 |
| ZNF572 | 83.7 | 81.8 | 97.8 | 84.6 | 82.3 | 92.5 | 84.6 | 89.8 |
| ZNF573 | 506.7 | 705 | 281.8 | 386.7 | 337.6 | 369.3 | 414.5 | 494.6 |
| ZNF574 | 106.9 | 119.6 | 137.7 | 109.9 | 97.8 | 114.9 | 115.1 | 150.2 |
| ZNF575 | 96.1 | 100.9 | 94.9 | 85.4 | 86.8 | 95.8 | 97.7 | 127 |
| ZNF576 | 491 | 567.7 | 303.4 | 203.6 | 188.3 | 206.6 | 420.7 | 412.9 |
| ZNF577 | 421.3 | 461 | 272.6 | 407.8 | 417.4 | 360.9 | 453.9 | 804.2 |
| ZNF579 | 131.8 | 166.2 | 94.2 | 83.7 | 98.6 | 99.9 | 123.9 | 208.5 |
| ZNF580 | 129.8 | 119.9 | 103.1 | 79.1 | 93.4 | 81.1 | 113.5 | 139.8 |
| ZNF580 | 182.9 | 188.7 | 193.1 | 138.9 | 134 | 154.6 | 167.3 | 348.1 |
| ZNF580 | 143 | 153.9 | 93.6 | 84.1 | 83.7 | 87.6 | 134.9 | 183.8 |
| ZNF581 | 759 | 1022.3 | 719.4 | 391.7 | 346.3 | 489.3 | 686.4 | 1030.7 |
| ZNF582 | 104.5 | 118 | 92.6 | 75.7 | 91.1 | 86.3 | 105.7 | 115.6 |
| ZNF584 | 135 | 178.7 | 119 | 109.8 | 98.3 | 112.5 | 131.1 | 155.5 |
| ZNF585A | 285.7 | 354.7 | 204.2 | 251.2 | 189.3 | 292.1 | 224.7 | 269.1 |
| ZNF585A | 122.1 | 138 | 113.4 | 110.2 | 118.2 | 113.9 | 107.7 | 128.6 |
| ZNF585B | 96 | 110.5 | 97.8 | 90.1 | 89.1 | 101.6 | 96.5 | 113.6 |
| ZNF586 | 343.9 | 440.7 | 300.2 | 226.8 | 217.3 | 308.4 | 278.6 | 371.1 |
| ZNF586 | 742 | 1032.3 | 535.4 | 427.5 | 373.3 | 589.2 | 560.3 | 621.8 |
| ZNF586 | 151.6 | 194.6 | 117.2 | 94.2 | 86.7 | 90.2 | 121.9 | 138.9 |
| ZNF587 | 98.4 | 126.5 | 94.4 | 107.7 | 99.9 | 95.9 | 100.2 | 115 |
| ZNF588 | 82.8 | 82 | 83.4 | 87 | 79.8 | 92.9 | 86.7 | 83.5 |
| ZNF589 | 259.4 | 271.3 | 284.1 | 316.5 | 236.6 | 476.9 | 196.6 | 297.7 |
| ZNF592 | 117.6 | 127.3 | 98.5 | 84.9 | 95 | 96 | 122.8 | 129.5 |
| ZNF593 | 1195 | 1331.6 | 701.8 | 507.3 | 353.8 | 507.1 | 1139.6 | 1053.9 |
| ZNF595 | 76.8 | 73.6 | 85.2 | 71 | 70.5 | 69.2 | 78.3 | 90.2 |
| ZNF596 | 102.2 | 118.2 | 93.6 | 88.1 | 77.4 | 88.5 | 92.9 | 139.6 |
| ZNF596 | 94.8 | 106.5 | 116 | 90.6 | 90.3 | 105.2 | 99.7 | 113.9 |
| ZNF597 | 163.9 | 210.5 | 139.9 | 129.5 | 118.4 | 130.7 | 127.4 | 180.7 |
| ZNF598 | 1772.8 | 2097.5 | 1464.3 | 1091.8 | 949.2 | 1283.6 | 1365.7 | 1875.8 |
| ZNF599 | 83.6 | 84 | 88.5 | 79.7 | 71.7 | 77.4 | 74.6 | 89 |
| ZNF599 | 86.5 | 93.9 | 85.6 | 82.8 | 77 | 86.8 | 82.5 | 95.5 |
| ZNF6 | 101.9 | 122.6 | 95.5 | 89.6 | 85.4 | 104.1 | 98 | 136.9 |
| ZNF600 | 140.9 | 147 | 96.2 | 98.5 | 99.2 | 103.4 | 130.9 | 142 |
| ZNF606 | 145.3 | 187.6 | 102.9 | 101.2 | 90.9 | 115.5 | 133.4 | 180.5 |
| ZNF607 | 74.9 | 85.7 | 84 | 85.3 | 72.5 | 86.7 | 78.1 | 89.9 |
| ZNF608 | 86 | 99.5 | 111.9 | 108.5 | 93.4 | 96.2 | 89.3 | 93.7 |
| ZNF609 | 118.5 | 158.6 | 142.4 | 131 | 129 | 156.6 | 116.7 | 194.4 |
| ZNF610 | 75.1 | 89.3 | 87.5 | 81.3 | 71.6 | 79.9 | 79.8 | 82.7 |
| ZNF611 | 140.6 | 157.3 | 103.8 | 103.2 | 89.1 | 106.1 | 118.6 | 156.4 |
| ZNF613 | 364.1 | 425.5 | 266.6 | 243.4 | 197.2 | 268.5 | 287.6 | 379.3 |
| ZNF613 | 84.8 | 105 | 90.8 | 90.8 | 88 | 87.6 | 96.8 | 84.3 |
| ZNF614 | 402.1 | 519 | 307.5 | 273.5 | 221.2 | 440.7 | 349.3 | 586.7 |

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|---------|--------|--------|-------|--------|--------|--------|--------|--------|
| ZNF615 | 302.2 | 401.9 | 249 | 205.5 | 165.3 | 281.7 | 292.7 | 390.9 |
| ZNF616 | 175.4 | 213.1 | 205.7 | 156.5 | 130.4 | 172.8 | 160.3 | 207.1 |
| ZNF618 | 258.6 | 340.2 | 203.4 | 197.1 | 193.4 | 174.7 | 250.6 | 303.2 |
| ZNF619 | 82.3 | 90.6 | 96.2 | 84.2 | 79.4 | 88.4 | 87.1 | 91.7 |
| ZNF620 | 104 | 115.4 | 89.7 | 85.9 | 81 | 93.3 | 103.7 | 115.2 |
| ZNF621 | 742 | 882.6 | 387.3 | 406.6 | 358.9 | 496 | 585.7 | 818.7 |
| ZNF622 | 1851.9 | 2710.7 | 734.1 | 834.7 | 606 | 1083.9 | 1726.1 | 2009 |
| ZNF623 | 86.4 | 108.4 | 86.2 | 81.7 | 86.3 | 85.8 | 91.6 | 96.1 |
| ZNF624 | 98.8 | 122.4 | 107.1 | 99.5 | 87.9 | 109.5 | 103.1 | 135.3 |
| ZNF625 | 92 | 105.3 | 114.2 | 99.4 | 106.7 | 103.6 | 94.6 | 89.5 |
| ZNF626 | 82.1 | 84.2 | 101.2 | 97.7 | 90.8 | 97 | 79.9 | 88.1 |
| ZNF626 | 81.6 | 92.4 | 91.4 | 85.8 | 76.9 | 85.7 | 84 | 85.9 |
| ZNF626 | 156.1 | 211.5 | 106.5 | 106 | 95.1 | 99.4 | 173.4 | 204.6 |
| ZNF627 | 1229.3 | 1516.5 | 719 | 669.4 | 468.6 | 825.7 | 1011.7 | 1458.9 |
| ZNF628 | 94.5 | 103.6 | 90.4 | 84.6 | 90.6 | 94.5 | 98 | 108.4 |
| ZNF629 | 134.8 | 172.1 | 166 | 146 | 130.3 | 160.4 | 149.2 | 172.6 |
| ZNF629 | 206.4 | 318.7 | 160 | 130.9 | 94.2 | 128.4 | 233.6 | 313 |
| ZNF630 | 95.3 | 125 | 106.9 | 96 | 91.5 | 106.7 | 104 | 120.2 |
| ZNF630 | 87.5 | 98.2 | 121.1 | 133.5 | 123.8 | 147 | 90.9 | 98.4 |
| ZNF639 | 111 | 110.8 | 108.2 | 92.3 | 92.7 | 88.2 | 112.9 | 107.1 |
| ZNF641 | 154.8 | 165.3 | 129.9 | 180.1 | 144.8 | 161.8 | 112.5 | 163.1 |
| ZNF642 | 599 | 698.6 | 269.4 | 358.3 | 241.1 | 381.5 | 486.6 | 954.8 |
| ZNF643 | 245.3 | 325.5 | 155.8 | 167.9 | 153.1 | 179.5 | 197.9 | 259.6 |
| ZNF644 | 87.5 | 105 | 95.9 | 90.2 | 89.5 | 83.4 | 99.8 | 101.8 |
| ZNF644 | 586.3 | 673.7 | 326.3 | 396 | 291.4 | 624.7 | 522.1 | 1104.8 |
| ZNF644 | 328.3 | 378.7 | 151.4 | 177.2 | 157.1 | 158.2 | 229.1 | 367.2 |
| ZNF645 | 84.8 | 101.8 | 89.4 | 83.2 | 87.6 | 88.3 | 105.8 | 100.8 |
| ZNF646 | 111.4 | 148.5 | 120.8 | 106.2 | 103.9 | 127.8 | 114.9 | 137.7 |
| ZNF648 | 98.3 | 113.1 | 102.3 | 80.7 | 85.9 | 80 | 91.4 | 107 |
| ZNF649 | 130.1 | 156.2 | 116 | 99.1 | 94.8 | 97.3 | 122.3 | 145.5 |
| ZNF650 | 330.4 | 473 | 338.1 | 393.7 | 330.5 | 471.3 | 321.1 | 411.9 |
| ZNF651 | 176.5 | 213.4 | 149.7 | 150.6 | 148.5 | 168.4 | 165.3 | 160.2 |
| ZNF652 | 1744 | 1979.1 | 715 | 1198.3 | 1378.8 | 794.5 | 1461 | 1671.1 |
| ZNF653 | 314.6 | 354.8 | 262.3 | 184.5 | 199.9 | 180.9 | 299.8 | 265.6 |
| ZNF654 | 157.8 | 184.2 | 112.7 | 130.6 | 123 | 133.6 | 145.7 | 184.1 |
| ZNF654 | 149.9 | 194.8 | 129.2 | 174 | 179.5 | 178.9 | 155 | 246 |
| ZNF654 | 193.2 | 218.3 | 127.7 | 152.6 | 143.2 | 176.8 | 170.8 | 253.2 |
| ZNF654 | 132 | 142.5 | 85.1 | 97.9 | 100.8 | 97 | 133.2 | 192.3 |
| ZNF655 | 173.5 | 182.7 | 97 | 85.6 | 87.2 | 94.5 | 140.2 | 166.6 |
| ZNF655 | 130.8 | 164.9 | 118 | 99.4 | 81.9 | 96.4 | 135.2 | 148.7 |
| ZNF655 | 104.2 | 114.8 | 93.7 | 89.6 | 103 | 97.4 | 93.4 | 97.2 |
| ZNF655 | 330.4 | 349.4 | 185.2 | 200.5 | 212.6 | 172.8 | 299.3 | 268.2 |
| ZNF658 | 260.9 | 314 | 141.1 | 118.8 | 108.8 | 147.3 | 204.3 | 304 |
| ZNF658B | 66.3 | 78.6 | 94.2 | 87.9 | 86.5 | 77.6 | 72.8 | 75.7 |
| ZNF659 | 103.4 | 108.8 | 115.5 | 100.2 | 93.6 | 108.3 | 96.9 | 103.2 |
| ZNF660 | 127 | 140.5 | 140.7 | 127.8 | 120.3 | 113.3 | 131.9 | 169 |
| ZNF662 | 82.2 | 95 | 99 | 86.6 | 85 | 94.9 | 90.5 | 80.1 |
| ZNF664 | 240.1 | 297.1 | 131.8 | 145 | 132 | 156.1 | 198.8 | 247.7 |
| ZNF665 | 73.9 | 91.9 | 87.6 | 82.6 | 67.7 | 86.1 | 91.1 | 95.7 |
| ZNF667 | 114.9 | 132.8 | 92.5 | 80.3 | 83.1 | 89.2 | 112.8 | 135.5 |

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|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ZNF668 | 677.7 | 866.4 | 482.8 | 368.3 | 303.6 | 360.4 | 562.2 | 673.3 |
| ZNF669 | 392 | 427.7 | 256.6 | 263.9 | 224.3 | 185.1 | 339 | 439.1 |
| ZNF670 | 623.7 | 733.5 | 329.6 | 236.1 | 153 | 212.3 | 421.4 | 673.1 |
| ZNF671 | 380.1 | 476.4 | 316.8 | 253.2 | 222.2 | 284.5 | 323.7 | 354.3 |
| ZNF672 | 1321.5 | 1585.8 | 1029.9 | 976 | 959.6 | 1079.6 | 1199.8 | 827.4 |
| ZNF673 | 152.1 | 174.8 | 104.6 | 97.2 | 89.9 | 110.1 | 156.1 | 166.4 |
| ZNF675 | 117.2 | 104.2 | 101.2 | 94.1 | 89 | 102.1 | 97.4 | 123.8 |
| ZNF677 | 98.5 | 100.2 | 94.3 | 84.4 | 86.8 | 85.3 | 95.6 | 109.2 |
| ZNF678 | 75.7 | 84.2 | 84.6 | 69.2 | 68.4 | 77.2 | 82 | 85.1 |
| ZNF680 | 288.6 | 326.3 | 111.2 | 151.3 | 107.9 | 173.7 | 209.5 | 340.6 |
| ZNF681 | 179.4 | 189.8 | 122.3 | 124.4 | 103.2 | 162.2 | 165.3 | 327.1 |
| ZNF682 | 102.2 | 103.5 | 102.9 | 92.7 | 79.3 | 91.7 | 102.8 | 121.2 |
| ZNF682 | 184 | 263.7 | 150 | 190.2 | 168.7 | 181.1 | 166.3 | 167.4 |
| ZNF682 | 1978.3 | 1766.8 | 718.5 | 955.6 | 994.8 | 577.2 | 1626.7 | 2573.2 |
| ZNF683 | 107.3 | 125.6 | 98.7 | 85 | 88.3 | 88.3 | 99 | 118.4 |
| ZNF684 | 1424.1 | 1690.6 | 715 | 834.5 | 507.8 | 1175.7 | 1346.2 | 2472.3 |
| ZNF687 | 107.3 | 117 | 95.6 | 106.8 | 86.3 | 104.5 | 105.1 | 131.6 |
| ZNF688 | 173 | 203.4 | 123.5 | 109.5 | 102.4 | 111.2 | 137 | 203.4 |
| ZNF688 | 83.2 | 101.5 | 102 | 104.9 | 95.3 | 87.5 | 83.3 | 90 |
| ZNF689 | 1129.3 | 1445.3 | 765.1 | 656 | 575.5 | 637 | 761.9 | 654.7 |
| ZNF69 | 1247 | 1203.1 | 645.2 | 1207.6 | 1042.7 | 770.8 | 1101.8 | 2098.2 |
| ZNF690 | 167.4 | 199.9 | 119.6 | 106.4 | 111.9 | 110.5 | 155.4 | 163.9 |
| ZNF691 | 203.1 | 249.3 | 189.6 | 180.3 | 146.1 | 242.9 | 173.9 | 246.8 |
| ZNF692 | 490 | 493 | 499 | 471.5 | 510.8 | 791 | 268.3 | 386.3 |
| ZNF694 | 237.6 | 298 | 155.8 | 156.9 | 147.7 | 177.9 | 200.1 | 206.9 |
| ZNF695 | 276.2 | 358.3 | 239.1 | 168.2 | 164.6 | 168.7 | 281.3 | 290.7 |
| ZNF696 | 534.1 | 675.2 | 368.3 | 276.2 | 285.7 | 304.2 | 458.1 | 531 |
| ZNF699 | 165.7 | 216.3 | 106.4 | 99.4 | 99.5 | 113.4 | 159.7 | 170.5 |
| ZNF7 | 647 | 723.8 | 484.1 | 429.8 | 381.6 | 724.7 | 478.9 | 868.8 |
| ZNF70 | 81 | 98.7 | 92.6 | 75.1 | 81.4 | 80.7 | 86.7 | 98.7 |
| ZNF700 | 990.6 | 1315.5 | 926.9 | 1079.3 | 953.9 | 1644.5 | 789.1 | 1157.1 |
| ZNF701 | 131.6 | 151.1 | 103.6 | 107.5 | 94.2 | 111.2 | 118.3 | 152.3 |
| ZNF702 | 81.6 | 100.2 | 97.4 | 87.3 | 73.1 | 84.8 | 90.7 | 97.3 |
| ZNF703 | 99.4 | 107.1 | 92.8 | 80.4 | 70.1 | 85.5 | 98.8 | 100.6 |
| ZNF703 | 89.4 | 80.4 | 89.1 | 87.3 | 77.1 | 79.6 | 93.9 | 104.4 |
| ZNF704 | 103.4 | 112.8 | 102.6 | 104.8 | 98.2 | 103.9 | 92.5 | 115.2 |
| ZNF706 | 233.2 | 288.3 | 177.2 | 165 | 122.6 | 175.7 | 193.8 | 282.3 |
| ZNF706 | 86 | 93.4 | 121.5 | 109 | 98.1 | 108.9 | 84.4 | 92.7 |
| ZNF706 | 289.1 | 339.1 | 223.6 | 187 | 146.4 | 205.9 | 226.5 | 290.9 |
| ZNF707 | 208.4 | 255.4 | 186.7 | 143.1 | 146.3 | 171 | 215.5 | 337.7 |
| ZNF708 | 89.4 | 87.8 | 102.3 | 90.2 | 92.4 | 96.8 | 82.8 | 107.5 |
| ZNF709 | 97.2 | 94 | 89.9 | 88.1 | 89.4 | 88 | 94 | 92.8 |
| ZNF71 | 113.7 | 126.8 | 94.7 | 105.5 | 95.8 | 99 | 104.3 | 121 |
| ZNF710 | 83.9 | 91.4 | 80.5 | 86.5 | 80.5 | 78.9 | 83.1 | 88 |
| ZNF713 | 121 | 111.8 | 106.9 | 101.8 | 98.6 | 100 | 107.7 | 115.4 |
| ZNF714 | 111.2 | 124.1 | 97.5 | 90.9 | 88.9 | 98.4 | 106.8 | 113.7 |
| ZNF718 | 102.8 | 122.4 | 111.1 | 105.2 | 102.9 | 98.1 | 103.1 | 105.8 |
| ZNF721 | 1059 | 1359 | 394 | 298.2 | 279.9 | 431.1 | 905.8 | 1527.7 |
| ZNF74 | 94.7 | 109 | 95.9 | 92.5 | 79 | 89.3 | 91 | 97.5 |
| ZNF74 | 146.4 | 165.7 | 125.4 | 93.2 | 103.5 | 101.5 | 133.7 | 141.2 |

| | | | | | | | | |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| ZNF74 | 234.4 | 282.6 | 147.5 | 173.9 | 140.5 | 169.6 | 179.3 | 213.9 |
| ZNF740 | 98.5 | 120.7 | 105.5 | 119.2 | 114.9 | 115.5 | 96.8 | 99.5 |
| ZNF749 | 115.4 | 146 | 99 | 87.3 | 77.6 | 85.2 | 111.5 | 119.4 |
| ZNF75 | 198.2 | 216.7 | 152 | 229.3 | 164.2 | 247.8 | 209.4 | 311.3 |
| ZNF75A | 339.7 | 388.7 | 165.3 | 131.1 | 109.4 | 154.2 | 317.1 | 445.1 |
| ZNF76 | 179.2 | 222.2 | 213.9 | 182 | 200.9 | 322.8 | 154.1 | 212.2 |
| ZNF765 | 68.8 | 83.1 | 77.8 | 78.7 | 79.5 | 72.9 | 77.5 | 80.4 |
| ZNF767 | 197.5 | 198.9 | 168.4 | 159.1 | 169 | 169.7 | 155.2 | 175.4 |
| ZNF77 | 231.6 | 304.8 | 210.5 | 179 | 158.6 | 239.4 | 216.5 | 325.8 |
| ZNF781 | 95.8 | 114.1 | 82.8 | 87 | 91.9 | 97.1 | 98.9 | 101.1 |
| ZNF79 | 143.8 | 161.7 | 100.2 | 103.2 | 98.8 | 109.8 | 139.4 | 184.1 |
| ZNF8 | 135.1 | 131.5 | 113.7 | 94.4 | 90.7 | 100.7 | 113.8 | 124.5 |
| ZNF80 | 92.6 | 102.7 | 113.6 | 104.8 | 104.3 | 98.6 | 91.5 | 91.2 |
| ZNF805 | 142.7 | 205 | 113.7 | 129.8 | 113.2 | 157.4 | 164.8 | 194.1 |
| ZNF808 | 84.2 | 94.5 | 100.5 | 89.7 | 82.1 | 95.4 | 82.8 | 95.8 |
| ZNF81 | 87.5 | 97.8 | 86.3 | 81.7 | 83.7 | 84.6 | 93.3 | 93.5 |
| ZNF83 | 318.4 | 364 | 170.8 | 167.3 | 171.9 | 244.7 | 218.1 | 390.5 |
| ZNF85 | 149.9 | 145.8 | 106.9 | 83.6 | 90.4 | 132.2 | 110 | 173.8 |
| ZNF91 | 444.6 | 550.3 | 219.6 | 225.2 | 146.7 | 306.4 | 405.7 | 734.9 |
| ZNF92 | 155.5 | 162.6 | 98.6 | 86.6 | 92.1 | 88.9 | 109.9 | 133.2 |
| ZNF92 | 81.4 | 96.9 | 106.9 | 90.4 | 93.1 | 96.2 | 88.5 | 97.5 |
| ZNF93 | 388.8 | 524.3 | 166.8 | 174.4 | 144.4 | 205.3 | 349.6 | 458.5 |
| ZNF93 | 266.3 | 364.8 | 152.2 | 139.8 | 124.1 | 202 | 207.2 | 339.3 |
| ZNF96 | 119 | 143.6 | 108.2 | 96.5 | 82.4 | 105.2 | 109.1 | 136.9 |
| ZNF99 | 110.3 | 109 | 100.9 | 90.1 | 84.4 | 90.6 | 92.1 | 110.1 |
| ZNFN1A1 | 1043.4 | 1203.9 | 438.2 | 496.5 | 437.2 | 431.4 | 516.8 | 554.8 |
| ZNFN1A2 | 165.6 | 166.8 | 111.3 | 107.2 | 93.7 | 107.3 | 145.1 | 141.4 |
| ZNFN1A2 | 108.4 | 143.6 | 104.4 | 88.7 | 82.8 | 89 | 114.2 | 129.6 |
| ZNFN1A3 | 127 | 138 | 102.1 | 95.2 | 95.1 | 86.7 | 126.5 | 147.1 |
| ZNFN1A4 | 155.9 | 194 | 132.6 | 124.3 | 107.8 | 124.2 | 152.6 | 223 |
| ZNFN1A5 | 253.7 | 371.6 | 201.6 | 167.4 | 137.7 | 223.5 | 235.2 | 389.6 |
| ZNFX1 | 310.1 | 414.2 | 339.4 | 250.8 | 184.4 | 248.2 | 260.8 | 517.3 |
| ZNHIT1 | 1747.4 | 2024.1 | 1242.5 | 1273.5 | 1008.4 | 1288.3 | 1738 | 1835.3 |
| ZNHIT2 | 249.9 | 347.1 | 140.5 | 91.8 | 93.9 | 124.6 | 193.1 | 237.3 |
| ZNHIT3 | 3513.6 | 4701.6 | 3037.2 | 3653.3 | 3023.2 | 3581.7 | 3516.3 | 4630.5 |
| ZNHIT3 | 103.8 | 110.3 | 90.9 | 86.4 | 80.9 | 81.8 | 102.4 | 100 |
| ZNHIT3 | 919.8 | 1216.3 | 300.3 | 278.5 | 269.2 | 440.7 | 820.5 | 1075.9 |
| ZNHIT4 | 160.7 | 215 | 131.8 | 129.1 | 115.3 | 110.8 | 157.8 | 179.7 |
| ZNRD1 | 348.8 | 504.6 | 183 | 122.1 | 134.9 | 157.6 | 314.5 | 336.4 |
| ZNRD1 | 498 | 662.3 | 359.2 | 247.7 | 188.8 | 309.6 | 377.9 | 498 |
| ZNRD1 | 457.9 | 556.5 | 264.5 | 203.7 | 163.4 | 231.9 | 356.9 | 423.6 |
| ZNRF1 | 103.5 | 119.6 | 106.5 | 89.6 | 90.1 | 87.5 | 104.6 | 129.8 |
| ZNRF2 | 87.9 | 105.3 | 80.5 | 85.9 | 80.9 | 88.7 | 86.7 | 102.8 |
| ZNRF4 | 78.2 | 91.8 | 91.4 | 82.6 | 83.2 | 87.3 | 74.1 | 82.4 |
| ZP1 | 79.3 | 88.6 | 93.9 | 101.3 | 86.1 | 91.4 | 81.6 | 97.1 |
| ZP2 | 73.8 | 76.6 | 88.3 | 87.3 | 71.4 | 87.1 | 81.9 | 74.7 |
| ZP3 | 158.4 | 187 | 105.1 | 93.3 | 93.8 | 88.1 | 145.9 | 179.9 |
| ZP4 | 79.6 | 87.2 | 90 | 84.7 | 79.8 | 82.6 | 75.1 | 81.1 |
| ZPBP | 78.9 | 83.3 | 90.5 | 78.5 | 85.5 | 90.1 | 82.1 | 84.2 |
| ZPBP2 | 81.5 | 86.7 | 99.8 | 96.6 | 90.5 | 92 | 80.9 | 83.6 |

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|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| ZBPB2 | 75.2 | 87.2 | 96.8 | 92.2 | 82.5 | 87.1 | 82.7 | 86.7 |
| ZBPB2 | 82.5 | 96.9 | 97.1 | 79.8 | 86.2 | 90.6 | 82.6 | 95.1 |
| ZPLD1 | 74.1 | 77.1 | 79.5 | 71.3 | 73.4 | 72.8 | 81.8 | 79.2 |
| ZRANB1 | 174.2 | 259.3 | 146.4 | 124.7 | 120.2 | 138.3 | 178 | 252.5 |
| ZRANB3 | 85 | 106.4 | 93.3 | 88.8 | 84.4 | 86.9 | 99.2 | 96.9 |
| ZRF1 | 137.6 | 145.4 | 103.4 | 88.9 | 83.4 | 99.3 | 148.5 | 263.1 |
| ZSCAN1 | 95.2 | 119.6 | 88.8 | 73.4 | 75.2 | 80.8 | 104.8 | 118.1 |
| ZSCAN2 | 140 | 169.7 | 113.3 | 114.5 | 123.7 | 133.3 | 140.1 | 164.5 |
| ZSCAN2 | 298 | 354.1 | 239.9 | 293.1 | 251.6 | 296.6 | 288 | 292.3 |
| ZSCAN2 | 114.4 | 145.4 | 110.3 | 119 | 121.6 | 120.8 | 104.4 | 125.3 |
| ZSCAN2 | 90.8 | 105.7 | 88.8 | 79.3 | 91 | 96.3 | 87 | 93.5 |
| ZSCAN4 | 81.4 | 95.2 | 103.6 | 93.4 | 86.4 | 97 | 93 | 95.5 |
| ZSCAN5 | 302.4 | 399.7 | 183.1 | 169.3 | 134.3 | 156.1 | 251.4 | 310.1 |
| ZSWIM1 | 657.7 | 809 | 381.6 | 442.4 | 389.2 | 380.6 | 609.9 | 677 |
| ZSWIM2 | 78.2 | 84.1 | 97.2 | 82.6 | 84.5 | 91.1 | 78.5 | 79 |
| ZSWIM3 | 113.1 | 137.5 | 96 | 99.1 | 93.1 | 82.1 | 112.3 | 121.8 |
| ZSWIM3 | 197 | 246.8 | 203.1 | 187.5 | 161.3 | 202.8 | 205.5 | 326.4 |
| ZSWIM3 | 112.4 | 130.7 | 102.6 | 108.2 | 87.8 | 97 | 110.9 | 116.6 |
| ZSWIM3 | 136.2 | 148 | 95.7 | 94 | 88.7 | 86.2 | 115 | 118.6 |
| ZSWIM4 | 207.1 | 281.5 | 176.5 | 178.3 | 174.1 | 181.9 | 223.3 | 256.1 |
| ZW10 | 1605 | 2211.8 | 841.8 | 793.1 | 713.6 | 1117.2 | 1370.5 | 1414.6 |
| ZWILCH | 250.5 | 322.4 | 118.7 | 109.8 | 94.8 | 110.1 | 182.6 | 274.3 |
| ZWILCH | 256.1 | 292.7 | 115 | 105.6 | 92.1 | 112.6 | 198.9 | 395.3 |
| ZWILCH | 1945.8 | 2478.6 | 1254.9 | 1005.3 | 891.2 | 1412.1 | 1440.3 | 2419.8 |
| ZWINT | 167.8 | 194.4 | 145.1 | 102.4 | 93.4 | 102.9 | 130.4 | 169.3 |
| ZWINT | 924 | 1034.6 | 259.9 | 188.7 | 179.7 | 238.1 | 730.2 | 1003.4 |
| ZWINT | 156.6 | 181.8 | 100.8 | 101.5 | 78.3 | 90.7 | 142.2 | 160.9 |
| ZXDA | 120.5 | 133.6 | 120.2 | 106.8 | 104.2 | 113.2 | 121.9 | 126.4 |
| ZXDA | 108.9 | 117 | 97.2 | 87.1 | 87.3 | 92.8 | 97.1 | 105.9 |
| ZXDB | 152 | 205.6 | 127.5 | 115.6 | 105.6 | 145.8 | 128.7 | 149 |
| ZXDC | 125.2 | 157.8 | 111.8 | 123 | 106.2 | 108.7 | 125.9 | 136.8 |
| ZXDC | 225.5 | 284.1 | 203.8 | 263 | 239.8 | 250.3 | 176.2 | 164.4 |
| ZYG11A | 99.3 | 105.8 | 99.3 | 85.9 | 95 | 92.8 | 98.2 | 102.1 |
| ZYG11B | 1147.1 | 1816.9 | 913.6 | 1524.5 | 1215.1 | 1943.8 | 1076.3 | 1504.5 |
| ZYG11BL | 189.3 | 215.6 | 134.3 | 115.3 | 104.3 | 119.6 | 185.4 | 226.3 |
| ZYX | 536.7 | 765.8 | 657 | 643 | 523.2 | 935.8 | 530.3 | 1280.2 |
| ZYX | 2901.8 | 3598.2 | 2188.4 | 2607.9 | 2038.3 | 2100 | 2712 | 4414.2 |
| ZZEF1 | 250.9 | 370.9 | 189.9 | 267.9 | 243.6 | 284.1 | 294.2 | 339.1 |
| ZZZ3 | 800.9 | 908.1 | 501.3 | 459.1 | 320.5 | 671.3 | 581.1 | 1116.8 |

TS5, TS6)

| AVG_Signa | AVG_Signa | AVG_Signa | AVG_Signa | ACCESSION |
|-----------|-----------|-----------|-----------|----------------|
| 188.9 | 169.8 | 156.5 | 139.2 | NM_176818.1 |
| 361.3 | 287.7 | 224.7 | 185 | NM_177966.4 |
| 80.7 | 89.9 | 85.1 | 92.5 | NM_182762.2 |
| 109.7 | 105.1 | 107.7 | 90.9 | NM_130786.2 |
| 89.4 | 85.6 | 84.1 | 80.2 | NM_018723.2 |
| 100.1 | 95.5 | 83.7 | 94.3 | NM_145891.1 |
| 92.5 | 85.4 | 85.1 | 87.5 | NM_145893.1 |
| 100.4 | 93.2 | 75.1 | 85.5 | NM_018723.2 |
| 77.1 | 86 | 80.3 | 89.6 | NM_000014.4 |
| 109.3 | 89 | 86.2 | 92.2 | NM_144670.2 |
| 84.9 | 83.3 | 78.8 | 78.6 | XM_940724.1 |
| 91 | 88.7 | 92.9 | 90.7 | NM_001080438.1 |
| 146.1 | 113 | 130.8 | 109.6 | NM_017436.4 |
| 95.8 | 92.8 | 92.5 | 92.5 | NM_016161.1 |
| 114.9 | 104.4 | 91.4 | 94.7 | NM_207284.1 |
| 103.8 | 103.1 | 99.8 | 95.5 | NM_207290.1 |
| 101 | 86 | 88.6 | 89.5 | NM_207285.1 |
| 76.8 | 66.1 | 69.7 | 71.9 | NM_207289.1 |
| 83.5 | 83.7 | 78.7 | 80.7 | NM_207283.1 |
| 125.2 | 110.7 | 102.8 | 99.8 | NM_015665.3 |
| 169 | 233.5 | 221 | 161.5 | NM_023928.2 |
| 98.3 | 94.7 | 90.7 | 88.1 | NM_001086.2 |
| 159.7 | 151 | 121.2 | 151.7 | NM_020792.3 |
| 89.9 | 88.3 | 84.1 | 85.9 | NM_207365.1 |
| 97.2 | 81.9 | 91.7 | 92.4 | NM_016228.3 |
| 88.5 | 81.3 | 89.9 | 84.8 | NM_182662.1 |
| 84.4 | 82.3 | 84 | 94.9 | NM_182662.1 |
| 87.6 | 92.6 | 96.3 | 89.6 | NM_014911.2 |
| 164.4 | 197.3 | 171.4 | 144.8 | NM_001087.2 |
| 90.1 | 75.6 | 75.4 | 82 | NM_001088.1 |
| 4730.4 | 3964.3 | 3757.5 | 2302 | NM_001605.1 |
| 493.5 | 548.7 | 525.1 | 436.5 | NM_025267.2 |
| 256.7 | 330.2 | 275.3 | 229.6 | NM_020745.1 |
| 302.3 | 308.9 | 263.5 | 255.8 | NM_181806.2 |
| 767.1 | 491.9 | 385.1 | 338.1 | NM_015423.2 |
| 109.1 | 106 | 97.7 | 98.8 | NM_005763.2 |
| 1032.7 | 722.1 | 640.3 | 526.6 | NM_012138.3 |
| 103.4 | 102.3 | 94.9 | 101.3 | XM_927215.1 |
| 76 | 79.3 | 80.6 | 81.5 | NM_001080395.1 |
| 91.2 | 82 | 87 | 86.9 | NM_020686.3 |
| 87.8 | 86.6 | 87.4 | 90.7 | NM_020686.3 |
| 98.6 | 89.9 | 88.9 | 84.1 | NM_000663.3 |

| | | | |
|-------|-------|-------|----------------------|
| 138.1 | 156.7 | 153.2 | 113.9 NM_022070.3 |
| 297.6 | 870.1 | 838.7 | 608.4 NM_005502.2 |
| 98.4 | 90 | 99.8 | 95.1 NM_080282.2 |
| 122.6 | 139.9 | 105.4 | 116.1 NR_002451.1 |
| 91 | 80.6 | 81.3 | 86.7 NM_173076.2 |
| 86.8 | 90.4 | 92.4 | 81.1 NM_015657.3 |
| 95.4 | 91.9 | 85.5 | 90.2 NM_152701.2 |
| 89 | 93.9 | 90.1 | 89 NM_212533.1 |
| 131.9 | 146.1 | 124 | 121.4 NM_001606.3 |
| 97.1 | 94.1 | 93.8 | 93.7 NM_001089.1 |
| 143.4 | 131.5 | 136 | 139.4 NM_000350.1 |
| 93.8 | 101.2 | 112.3 | 110.4 NM_172232.1 |
| 83.9 | 90.7 | 82.4 | 89.9 NM_018672.2 |
| 91.7 | 85 | 91.4 | 99 NM_018672.2 |
| 84.7 | 88.8 | 88 | 92.1 NM_172346.1 |
| 106.5 | 120.7 | 106.1 | 96.6 NM_080284.2 |
| 83.9 | 83.9 | 69.6 | 80 NM_019112.2 |
| 203.7 | 265.4 | 272.7 | 222.5 NM_019112.2 |
| 96.5 | 90.2 | 89.7 | 96.5 NM_033308.1 |
| 80.8 | 83.9 | 73.3 | 86.8 NM_007168.2 |
| 98.2 | 97.3 | 85.6 | 87.8 NM_080283.2 |
| 96 | 75.9 | 86.6 | 85.4 NM_080283.2 |
| 87.3 | 85.3 | 78.1 | 80 NM_000927.3 |
| 810.8 | 779.3 | 702.2 | 684.2 NM_012089.1 |
| 94.6 | 100.2 | 95 | 100.9 NM_003742.2 |
| 119.6 | 75.9 | 91.4 | 86.7 NM_000443.2 |
| 82.5 | 84.5 | 79.3 | 74.7 NM_178559.3 |
| 146.3 | 177 | 168.7 | 162.8 NM_005689.1 |
| 381.5 | 352.6 | 341.6 | 393.2 NM_004299.3 |
| 92.8 | 82.5 | 86.8 | 84.7 NM_007188.2 |
| 92.8 | 96.3 | 98.2 | 102.8 NM_203444.1 |
| 136.5 | 129.4 | 119.1 | 134.1 NM_019624.2 |
| 183.2 | 191.1 | 194.5 | 142.6 NM_019624.2 |
| 90.9 | 94.4 | 90.3 | 97.4 NM_019901.1 |
| 126.2 | 124.4 | 112.5 | 119.7 NM_019900.1 |
| 114.2 | 104 | 97.6 | 109.2 NM_033450.2 |
| 78 | 73.7 | 72.1 | 80 NM_145186.2 |
| 113.3 | 102.4 | 99.6 | 86.8 NM_033151.2 |
| 96.3 | 86.7 | 96 | 101.5 NM_145186.1 |
| 115.1 | 105.2 | 99.9 | 109.4 NM_145188.1 |
| 118.4 | 89.7 | 100.3 | 102.2 NM_172025.1 |
| 101.3 | 105.8 | 104.4 | 100.9 NM_172024.1 |
| 114.7 | 98.2 | 93.2 | 94.4 NM_000392.1 |
| 115.9 | 766.7 | 487.8 | 438.4 NM_020037.1 |
| 207.4 | 208 | 156.3 | 173.3 NM_005845.2 |
| 94.6 | 85.6 | 79.6 | 89.5 NM_001023587.1 |
| 194 | 320.6 | 287.3 | 197.4 NM_005688.2 |
| 158.8 | 147.5 | 132.8 | 138.5 NM_001023587.1 |
| 83.1 | 94.6 | 92 | 96.5 NM_001171.2 |
| 77.9 | 81.3 | 83.3 | 95.3 XM_936351.1 |

| | | | |
|--------|-------|-------|----------------------|
| 80.9 | 82.9 | 73.7 | 82.3 NM_001079528.1 |
| 88.7 | 87.1 | 96.6 | 96.8 NM_001171.2 |
| 126.4 | 119.1 | 138.3 | 109.9 NM_001079528.1 |
| 91.4 | 92.6 | 88.5 | 89.2 NM_000352.2 |
| 89.3 | 87.7 | 79.5 | 88.5 NM_020297.1 |
| 98.6 | 92.3 | 92.3 | 94.2 NM_020298.2 |
| 222.9 | 212.5 | 183.9 | 212.7 NM_000033.2 |
| 89.5 | 80.4 | 83.6 | 81.4 NM_005164.2 |
| 85.7 | 91.9 | 83.5 | 95.2 NR_003256.1 |
| 116.9 | 111 | 104.5 | 121.1 NM_020323.1 |
| 1314.8 | 635.8 | 444 | 606.8 NM_001040876.1 |
| 1286.7 | 610.6 | 434.7 | 572.4 NM_002940.1 |
| 438.2 | 373.6 | 327.4 | 293.4 NM_001025091.1 |
| 846.6 | 896.8 | 825.2 | 510 NM_001090.2 |
| 103 | 90.8 | 87.8 | 92.8 NM_005692.3 |
| 507.6 | 434.1 | 329.8 | 287.9 NM_005692.3 |
| 185.3 | 168.6 | 143.9 | 146.9 NM_007189.1 |
| 141.1 | 119.8 | 127 | 121.8 NM_018358.1 |
| 98.6 | 96.5 | 105.5 | 108 NM_207629.1 |
| 107 | 102.2 | 92.7 | 95.2 NM_207627.1 |
| 101.3 | 97.3 | 85.9 | 83.1 NM_207630.1 |
| 89.5 | 97.1 | 96.3 | 91.7 NM_016818.2 |
| 96.5 | 92.6 | 91.1 | 97.3 NM_004915.3 |
| 87.2 | 82.2 | 86.4 | 97.9 NM_207174.1 |
| 78 | 75.6 | 74.8 | 76.9 NM_004827.2 |
| 101.3 | 90.2 | 90.4 | 91.7 NM_022169.3 |
| 106.2 | 101.4 | 99.4 | 102.4 NM_022436.2 |
| 93.9 | 91.7 | 83.5 | 93.7 NM_022437.2 |
| 95.6 | 85.1 | 85.2 | 87.5 NM_152870.1 |
| 295.3 | 277.8 | 231.6 | 179 NM_018394.1 |
| 189 | 158.1 | 150.3 | 139.4 NM_148916.2 |
| 92.7 | 87.3 | 81.6 | 80 NM_031295.3 |
| 223.5 | 195.5 | 170.6 | 145.8 NM_148914.2 |
| 232.5 | 239.1 | 197.5 | 203.6 NM_001042472.1 |
| 319.8 | 367.9 | 332.9 | 291.6 NM_001042472.1 |
| 92.2 | 90.6 | 83 | 88.1 NM_032859.2 |
| 467.1 | 308.1 | 321.7 | 210.9 NM_015407.3 |
| 173.5 | 219.5 | 206 | 188.6 NM_032750.1 |
| 120.3 | 118.7 | 113.5 | 107.6 NM_152924.3 |
| 95 | 92.1 | 93.9 | 97.6 NM_007011.4 |
| 93.9 | 92.9 | 92.2 | 93.8 NM_007011.4 |
| 614.6 | 687.3 | 558.4 | 616.4 NM_138340.3 |
| 107.7 | 98.7 | 101.2 | 98.2 NM_022060.2 |
| 168.8 | 134.6 | 121.1 | 129.8 NM_016006.3 |
| 150.8 | 165.2 | 147.6 | 153.8 NM_020676.4 |
| 104.7 | 94.4 | 98 | 83.7 NM_173567.2 |
| 418.5 | 359.4 | 312 | 194.2 NM_024527.3 |
| 103.4 | 93.8 | 86 | 94.5 NM_024794.1 |
| 84.3 | 93.8 | 80.4 | 85.1 NM_005470.2 |
| 201.4 | 138.3 | 109.5 | 131.1 NM_001012751.1 |

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| 123.8 | 115 | 96.2 | 101.8 XM_938458.1 |
| 414.1 | 307.8 | 213.7 | 207.9 NM_005759.3 |
| 110.9 | 112.1 | 99.6 | 109.1 NM_005759.3 |
| 86 | 102.9 | 97.6 | 102.5 NM_016428.2 |
| 81.2 | 92.5 | 84.5 | 83.8 NM_015429.2 |
| 512.2 | 413.8 | 428.6 | 233.3 NM_007313.2 |
| 120.5 | 120.6 | 124.9 | 125.6 NM_007313.2 |
| 89.9 | 92.6 | 90.8 | 82.3 NM_005157.3 |
| 99.2 | 93.8 | 91.9 | 92.7 NM_005158.2 |
| 92.3 | 81.2 | 85.8 | 86.5 NM_005158.2 |
| 97.5 | 113.6 | 94 | 100.3 NM_007314.1 |
| 101.3 | 92.8 | 95.3 | 100.6 NM_006720.3 |
| 87.9 | 83.8 | 83.7 | 90.6 NM_006720.3 |
| 92.7 | 90.3 | 86.4 | 87.6 NM_002313.5 |
| 84.1 | 82.9 | 75.6 | 79.9 NM_001003407.1 |
| 105.6 | 85.7 | 91.1 | 92.1 NM_032432.2 |
| 96.9 | 98 | 94.2 | 98.1 NM_014945.1 |
| 84 | 93.1 | 83.8 | 93.1 NM_020469.2 |
| 634.3 | 2090.4 | 2510 | 807.8 NM_001091.2 |
| 1108.3 | 1380.6 | 1341.7 | 522.6 NM_021962.2 |
| 96.1 | 105.3 | 97.9 | 98.6 NM_001092.3 |
| 94.4 | 93.2 | 91.7 | 90.5 NM_021962.2 |
| 84.2 | 82.5 | 90 | 91.7 NM_139166.2 |
| 114.1 | 99.9 | 97.2 | 92.9 NM_013375.2 |
| 178.2 | 221.3 | 272 | 156.5 NM_172027.1 |
| 143.1 | 152.8 | 172.9 | 213.3 NM_172028.1 |
| 154.1 | 169.5 | 141.8 | 134.3 NM_145804.1 |
| 482.9 | 571 | 583.7 | 452.7 NM_001607.2 |
| 189.9 | 174.6 | 161.6 | 119.3 NM_006111.1 |
| 781.9 | 1017.1 | 1158.1 | 767.4 NM_198836.1 |
| 546.1 | 546.9 | 711.6 | 426.9 NM_000664.3 |
| 98.8 | 96.2 | 90.4 | 86.7 NM_198839.1 |
| 226.5 | 368.6 | 455 | 226.7 NM_001093.2 |
| 170.5 | 217.7 | 217.6 | 131.9 NM_025247.3 |
| 236.3 | 271 | 310.4 | 253.1 NM_032169.3 |
| 534.6 | 285.8 | 256.9 | 221.5 NM_014384.2 |
| 680.2 | 660.2 | 688.4 | 413.5 NM_014049.3 |
| 90.3 | 83.7 | 79.2 | 84.5 NM_001608.2 |
| 2002 | 1434.8 | 1525.1 | 1348.8 NM_000016.2 |
| 160.1 | 145.6 | 167.2 | 128.1 NM_000017.1 |
| 104.1 | 112 | 102.2 | 110.5 NM_001609.2 |
| 173.8 | 185.5 | 178 | 168.3 NM_000018.2 |
| 2399.5 | 2384.6 | 2175.5 | 1516.1 NM_000018.2 |
| 683.1 | 840.6 | 672.3 | 594 NM_000018.2 |
| 2721.7 | 2258.3 | 2105.7 | 1509.5 NM_000019.2 |
| 111.6 | 106 | 96.6 | 106 NM_005891.1 |
| 987.9 | 866 | 745.6 | 863.2 NM_022735.3 |
| 94.6 | 92.2 | 86.6 | 84.5 NM_024722.1 |
| 99.6 | 94.9 | 85.6 | 85.8 NM_145698.1 |
| 100.5 | 92.2 | 86.5 | 91.8 NM_145698.1 |

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| 100.1 | 96.9 | 87.9 | 92.8 NM_145698.1 |
| 451.6 | 295.1 | 300.6 | 206.5 NM_032360.2 |
| 104.6 | 88.7 | 78.2 | 86.4 XM_928013.1 |
| 77.1 | 89 | 79 | 92.4 NM_001039844.2 |
| 84.9 | 86.3 | 77.5 | 87.5 NM_183377.1 |
| 141.2 | 113 | 128.4 | 106.4 NM_020039.2 |
| 92 | 79.6 | 97 | 86.9 NM_020039.2 |
| 133.7 | 119.4 | 114.3 | 106.4 NM_020322.1 |
| 99.1 | 93 | 93.6 | 90.8 NM_020321.1 |
| 97.3 | 94.9 | 84.1 | 85.7 NM_018674.3 |
| 93 | 86.1 | 85.6 | 82.8 NM_018674.3 |
| 82 | 92.2 | 80.5 | 83.5 NM_018674.3 |
| 83.4 | 83.8 | 87 | 83.8 NM_017419.1 |
| 469 | 255.5 | 257.1 | 200.2 NM_022914.1 |
| 97.9 | 93.7 | 87.3 | 95 NM_152831.1 |
| 89.2 | 81.6 | 73.2 | 79.9 NM_152830.1 |
| 85.5 | 87.1 | 96.6 | 89.9 NM_000789.2 |
| 87.6 | 89.9 | 91.3 | 87.5 NM_021804.1 |
| 81.5 | 87.9 | 84.9 | 96.1 NM_138932.1 |
| 91.2 | 85.6 | 84.3 | 83.1 NM_138933.1 |
| 93.2 | 89.3 | 96 | 95.7 NM_138933.1 |
| 80.7 | 90.6 | 82.8 | 87.1 NM_000665.3 |
| 98.8 | 88.1 | 85.5 | 94.3 NM_015831.1 |
| 634.8 | 563 | 542.4 | 477.2 NM_014977.1 |
| 3227.8 | 2911.6 | 2573.9 | 2197.3 NM_198830.1 |
| 135.2 | 135.6 | 127.5 | 112.6 NM_138326.1 |
| 703.5 | 366.9 | 355.5 | 357.6 NM_020186.1 |
| 1007.5 | 889.4 | 762.6 | 581.4 NM_002197.1 |
| 190.5 | 219.2 | 232.9 | 203.8 NM_001098.2 |
| 98.3 | 87 | 89.1 | 90.5 NM_001037161.1 |
| 155.4 | 132 | 136.7 | 112.5 XM_929560.1 |
| 347.5 | 292.2 | 240.2 | 165.4 NM_147161.2 |
| 113.2 | 100.6 | 103.1 | 113.7 NM_015547.2 |
| 105.4 | 95.3 | 92.2 | 98.7 NM_130767.1 |
| 88.4 | 97.5 | 88.8 | 91.3 NM_006821.3 |
| 492.3 | 248.8 | 207 | 190.8 NM_152331.2 |
| 77.9 | 82.5 | 81.7 | 78.3 NM_001037162.1 |
| 81.4 | 86.1 | 86.5 | 82.8 NM_181865.2 |
| 76.8 | 83 | 79.5 | 79.8 NM_181866.2 |
| 1272.3 | 938.1 | 868.8 | 558.3 NM_181866.2 |
| 87.6 | 91.2 | 84.6 | 82.3 NM_007274.3 |
| 776.9 | 442.8 | 394.5 | 306.1 NM_007274.3 |
| 91.1 | 77.3 | 78.4 | 76.2 NM_181864.2 |
| 138.7 | 140.8 | 132.6 | 119.3 NM_183386.1 |
| 130.4 | 135.9 | 143 | 117.3 NM_001037171.1 |
| 451.5 | 328.2 | 313.4 | 286.5 NM_001033583.1 |
| 210.7 | 169.6 | 146.6 | 163.1 NM_004035.4 |
| 87.7 | 94.6 | 90.3 | 89.9 NM_007292.3 |
| 97.6 | 92.7 | 86.6 | 89.6 NM_004035.4 |
| 261.4 | 246.6 | 214.4 | 158.4 NM_003500.2 |

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| 411.8 | 316.4 | 330.5 | 229.1 | NM_003501.1 |
| 91.5 | 82.6 | 77.8 | 76.8 | NM_018308.1 |
| 1410.6 | 984.3 | 1012.9 | 807.9 | NM_007099.2 |
| 3565.8 | 2494.7 | 2426.9 | 1700.3 | NM_001040649.1 |
| 152 | 150.5 | 136.1 | 112.3 | NM_001610.1 |
| 92.5 | 93.8 | 86.9 | 81 | NM_001611.2 |
| 134.8 | 131.5 | 131.5 | 124.6 | NM_016361.2 |
| 119.1 | 103.7 | 92.4 | 99.5 | NM_152282.3 |
| 199.9 | 359.7 | 230.5 | 236.3 | NM_001099.2 |
| 170.6 | 190.4 | 184.9 | 149.3 | NM_033068.2 |
| 96.1 | 79.4 | 86.6 | 91 | NM_033068.2 |
| 94.8 | 85.6 | 97.4 | 90.2 | NM_001097.1 |
| 112.4 | 109.8 | 97.6 | 102 | NM_032489.2 |
| 130.3 | 123.9 | 109.1 | 97.8 | NM_052957.2 |
| 124.9 | 98.2 | 95.4 | 95.1 | NM_001612.4 |
| 94.6 | 87 | 80.1 | 92.3 | NM_020109.3 |
| 88.4 | 86 | 90.6 | 89.5 | NM_015162.3 |
| 93.8 | 96.7 | 85.2 | 105.3 | NM_030924.2 |
| 173.6 | 143.1 | 128.4 | 121.1 | NM_001995.2 |
| 1718 | 1782 | 1608.7 | 1197.6 | NM_203372.1 |
| 164.5 | 151.2 | 154.8 | 160.4 | NM_004457.3 |
| 313.7 | 309.5 | 286.8 | 289.7 | NM_004457.3 |
| 98.2 | 91 | 87.1 | 88.6 | NM_022977.1 |
| 255.8 | 173.6 | 183.2 | 160.3 | NM_022977.1 |
| 783.7 | 845.9 | 806.2 | 613.7 | NM_004458.1 |
| 162.5 | 120.3 | 113.6 | 122.5 | NM_203379.1 |
| 96.7 | 88.4 | 90.2 | 90.4 | NM_203379.1 |
| 95 | 91.6 | 87.7 | 93.1 | NM_203380.1 |
| 96.6 | 96.4 | 87.8 | 96.1 | NM_016234.3 |
| 563.5 | 366.1 | 359.7 | 215.9 | NM_203379.1 |
| 87.7 | 89 | 69.6 | 92.4 | NM_015256.2 |
| 93.9 | 86.7 | 82.4 | 89.3 | NM_001009185.1 |
| 100.1 | 93.7 | 94 | 89.5 | NM_015256.2 |
| 86.7 | 90.4 | 84.4 | 84.4 | NM_052956.1 |
| 82.9 | 91.6 | 84.9 | 86.7 | XM_936876.1 |
| 94.7 | 91.5 | 85.3 | 88 | NM_182617.2 |
| 102.9 | 90.6 | 100.2 | 90.3 | NM_202000.2 |
| 105.1 | 94.4 | 87.2 | 98.1 | NM_202000.2 |
| 105.5 | 99.4 | 109.4 | 101.5 | NM_005622.3 |
| 152.6 | 158 | 187.9 | 171.3 | NM_032501.2 |
| 76.1 | 85.6 | 79.4 | 89.5 | NM_018677.2 |
| 96.9 | 88.7 | 79.6 | 94.2 | NM_001076552.1 |
| 1018.2 | 1215 | 1469 | 828.9 | NM_001076552.1 |
| 1371.9 | 1621.2 | 1822.3 | 1122.8 | NM_139274.1 |
| 99.5 | 96.1 | 102.6 | 89.1 | NM_001100.3 |
| 98.9 | 98.5 | 97.6 | 96.2 | NM_001613.1 |
| 22856.6 | 22728 | 19355.3 | 16778.5 | NM_001101.2 |
| 20773.4 | 17653.2 | 15463.9 | 17648.2 | NM_001101.2 |
| 77.3 | 75.6 | 82.1 | 83.3 | NM_001004053.1 |
| 93.6 | 87.5 | 76.4 | 87.9 | NM_005159.3 |

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|---------|---------|---------|---------|----------------|
| 38970.5 | 35004.4 | 31842.7 | 25771.9 | NM_001614.2 |
| 87.3 | 88.9 | 90.3 | 93.8 | NM_001615.3 |
| 3630.6 | 2427.5 | 2094.2 | 1554.3 | NM_177989.1 |
| 956.9 | 639.3 | 541.8 | 495.7 | NM_004301.3 |
| 96.5 | 84.3 | 86.5 | 98 | NM_016188.3 |
| 87.8 | 82.2 | 74.8 | 86 | NM_006687.2 |
| 99.9 | 93.2 | 95.6 | 99 | NM_006686.2 |
| 96.9 | 89 | 94.6 | 90.7 | NM_030812.1 |
| 3204.2 | 3070.2 | 2502.4 | 1799.8 | NM_001102.2 |
| 107.3 | 109.1 | 103.1 | 93.1 | NM_001103.1 |
| 88.1 | 79.1 | 81.9 | 80.4 | NM_001104.1 |
| 815.6 | 882.2 | 677.1 | 587.7 | NM_004924.3 |
| 754.5 | 677.4 | 577.9 | 418.2 | NM_018477.1 |
| 630.6 | 320.9 | 314.3 | 213.6 | NM_005736.2 |
| 297.2 | 387.7 | 365.8 | 295.6 | NM_005735.2 |
| 9327.2 | 6468.4 | 5028.5 | 4967.3 | NM_001005386.1 |
| 999.7 | 733.9 | 607.9 | 694 | NM_005721.3 |
| 133.2 | 116.1 | 98 | 110.9 | NM_020445.4 |
| 87.3 | 86.7 | 81.7 | 97 | NM_020445.4 |
| 111.5 | 94.1 | 87.6 | 97.1 | NM_020445.4 |
| 216.9 | 219.8 | 240.1 | 166.4 | NM_024855.2 |
| 472.5 | 360.8 | 334.1 | 342.1 | NM_022496.2 |
| 180.5 | 167 | 156.4 | 153.9 | NM_022899.3 |
| 113.5 | 112.3 | 112.1 | 101 | NM_138289.1 |
| 330 | 282.1 | 272.9 | 221.4 | NM_001105.2 |
| 97.9 | 99.9 | 97.1 | 92.2 | NM_020327.2 |
| 103.7 | 94.9 | 91.5 | 97.2 | NM_020328.2 |
| 363.5 | 327.5 | 301.7 | 216.6 | NM_004302.3 |
| 83.4 | 91.9 | 78.3 | 92.4 | NM_020327.2 |
| 87 | 85.4 | 95.3 | 95.4 | NM_145259.1 |
| 160.7 | 174.4 | 163.4 | 145 | NM_001616.3 |
| 89.2 | 90.9 | 72.8 | 86.3 | NM_001106.2 |
| 106.9 | 110.3 | 108.5 | 105.2 | NM_000020.1 |
| 836.9 | 538.7 | 454.9 | 403.5 | NM_000666.1 |
| 234.5 | 173.4 | 162 | 207 | NM_001010853.1 |
| 91.7 | 82.3 | 86.6 | 82 | NM_080658.1 |
| 122.3 | 106 | 93.6 | 93.9 | NM_001107.3 |
| 506.5 | 432.9 | 478.5 | 367.2 | NM_203488.1 |
| 118.3 | 100.8 | 104.7 | 108.1 | NM_203488.1 |
| 260.6 | 279.6 | 217.8 | 255.4 | NM_138448.2 |
| 84.7 | 80.1 | 78.1 | 81.5 | NM_032021.2 |
| 380.9 | 479.8 | 472.7 | 331 | NM_000022.2 |
| 127.1 | 146.4 | 134.5 | 138.8 | NM_001012969.1 |
| 99.8 | 90.7 | 90.3 | 91.3 | NM_001110.2 |
| 99.1 | 104 | 106.1 | 102.6 | NM_002390.3 |
| 92.1 | 77.7 | 82.2 | 85.8 | NM_021641.2 |
| 84.5 | 82.8 | 76.8 | 81.7 | NM_003474.3 |
| 81.3 | 79.3 | 84.2 | 79.5 | NM_021641.2 |
| 218.7 | 176.6 | 175.2 | 178.1 | NM_003815.3 |
| 3485.3 | 2506 | 2611.1 | 913.7 | NM_207195.1 |

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| 163.3 | 148.9 | 142 | 125.5 XM_937888.1 |
| 299.9 | 414.9 | 345.7 | 285.2 NM_003183.4 |
| 92.6 | 84 | 88.4 | 101.6 NM_014237.1 |
| 97.6 | 88.8 | 84 | 89.4 NM_023038.3 |
| 108.7 | 89.1 | 100.3 | 87.4 NM_023038.3 |
| 103.7 | 123.5 | 101.8 | 106.7 NM_033274.2 |
| 100.9 | 93.5 | 88.1 | 86.1 NM_001464.3 |
| 84.3 | 86.2 | 84.5 | 85.6 NM_003814.4 |
| 108 | 98.1 | 97.6 | 99.4 NM_003813.2 |
| 99.6 | 85.4 | 82.1 | 89.7 NM_004194.2 |
| 83.1 | 79.7 | 86.4 | 89.8 NM_021722.2 |
| 84.1 | 73.6 | 83.3 | 76.5 NM_021721.2 |
| 82.8 | 86.7 | 83.7 | 95.2 NM_003812.2 |
| 79.3 | 95.8 | 84.4 | 101.2 NM_021777.2 |
| 97.7 | 92.3 | 95.9 | 102.8 NM_021777.2 |
| 84.8 | 93.6 | 89.4 | 86.5 NM_014265.3 |
| 92.3 | 99.4 | 94.5 | 85.6 NM_014269.3 |
| 85.2 | 91.6 | 88.3 | 93.5 NM_021794.2 |
| 107.9 | 102.2 | 109.5 | 99.6 XM_940500.1 |
| 94.6 | 86.6 | 83.2 | 80.4 NM_145004.4 |
| 112.4 | 127.3 | 107.5 | 103.6 NM_025220.2 |
| 104.4 | 102.7 | 94 | 85.7 NM_153202.1 |
| 88.7 | 85.7 | 86 | 84.7 NR_001569.1 |
| 103.9 | 100.9 | 96.9 | 94.2 NR_002224.1 |
| 94.3 | 104.4 | 102.2 | 87.1 NM_003817.1 |
| 98.5 | 85.6 | 108.2 | 104.4 NM_001109.2 |
| 182.7 | 142.9 | 129.1 | 140.5 NM_003816.2 |
| 102.8 | 267.8 | 232.1 | 249.1 NM_014479.2 |
| 104.8 | 121.3 | 92.9 | 101.2 NM_006988.3 |
| 83.4 | 89.4 | 84.4 | 83.4 NM_030957.2 |
| 86.1 | 94.6 | 77.9 | 89 NM_030955.2 |
| 72.3 | 83.8 | 69.9 | 79.9 NM_139028.2 |
| 84.1 | 83.1 | 80.2 | 81.4 NM_139025.2 |
| 101.1 | 89.9 | 96.8 | 96.7 NM_139027.2 |
| 100.8 | 92.5 | 83.7 | 94.1 NM_139155.1 |
| 86.2 | 81.4 | 73.7 | 81.6 NM_139155.2 |
| 98.9 | 100.2 | 87.3 | 83.5 NM_139055.1 |
| 104.9 | 96.3 | 100.6 | 95.3 NM_139056.1 |
| 104.8 | 100.5 | 93.1 | 96.1 NM_139057.1 |
| 84.1 | 90.2 | 83.2 | 95.8 NM_139054.2 |
| 91.7 | 86.4 | 87.5 | 92.5 NM_199355.1 |
| 120.1 | 117.8 | 114.6 | 113.7 NM_133638.2 |
| 96.4 | 108.6 | 102.8 | 106.3 NM_014244.1 |
| 150.8 | 207.1 | 192.2 | 184.4 NM_021599.1 |
| 91.2 | 83.7 | 72.1 | 90 NM_175851.1 |
| 80.5 | 86.5 | 78 | 76.8 NM_025003.2 |
| 76.9 | 88.5 | 83.4 | 93.2 NM_014243.1 |
| 94.8 | 100.9 | 93.9 | 96.6 NM_005099.3 |
| 89.6 | 79.8 | 82.8 | 81.4 NM_007038.2 |
| 98.2 | 99 | 90.9 | 85.1 NM_197941.2 |

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| 82.4 | 79.8 | 81.7 | 85.6 NM_014272.2 |
| 98.5 | 93.8 | 84.6 | 84.4 NM_007037.3 |
| 102.4 | 106.2 | 92.5 | 86.5 NM_182920.1 |
| 97.9 | 94.6 | 94.3 | 86.5 NM_139264.1 |
| 78.9 | 77.5 | 70.4 | 78.9 NM_139238.1 |
| 103.2 | 89.9 | 92.8 | 93.2 NM_052866.2 |
| 83.1 | 80.9 | 73.7 | 76 NM_052866.2 |
| 91.1 | 93.3 | 80.4 | 86.4 NM_014694.2 |
| 92.6 | 84.5 | 89.2 | 83.3 NM_207517.1 |
| 135.7 | 121.8 | 120.7 | 106.2 NM_213604.1 |
| 1118.2 | 1009.5 | 902.1 | 611.9 NM_015840.2 |
| 87.1 | 89.1 | 101.7 | 92.3 NM_001025107.1 |
| 694.5 | 759.5 | 611.3 | 521.3 NM_015840.2 |
| 115.3 | 95.4 | 95.7 | 91.4 NM_001112.2 |
| 142.4 | 172.2 | 164.5 | 142.1 NM_015833.2 |
| 91.6 | 88.9 | 77.5 | 86.7 NM_001033049.1 |
| 294.8 | 361.7 | 409.6 | 309.8 NM_001033049.1 |
| 90.7 | 84.8 | 84.1 | 81.1 NM_018702.1 |
| 348.2 | 360.4 | 295 | 288.7 NM_012091.2 |
| 101.3 | 99.7 | 95 | 90.6 NM_052998.2 |
| 191.6 | 194.4 | 189.5 | 168 NM_020421.2 |
| 833.9 | 692.5 | 675.2 | 372.8 NM_052853.3 |
| 104.8 | 105.1 | 93.1 | 100.1 NM_024876.2 |
| 173.9 | 166.2 | 150 | 144.1 NM_174922.3 |
| 251 | 756.1 | 577 | 531.5 NM_021116.1 |
| 116.7 | 104 | 93.4 | 95.3 NM_020546.1 |
| 2258.3 | 1565.2 | 1351.4 | 935.8 NM_004036.2 |
| 186 | 186.1 | 233.1 | 176.4 NM_139247.2 |
| 79.7 | 75.7 | 80.2 | 83.7 NM_183357.1 |
| 106.7 | 99.5 | 91.9 | 101.1 NM_020983.2 |
| 123.3 | 131.3 | 120 | 119.6 NM_015270.2 |
| 179.9 | 250.8 | 231.1 | 169.9 NM_001114.2 |
| 94.3 | 97.8 | 84 | 85.2 NM_001115.1 |
| 368.1 | 189.4 | 194 | 181.8 NM_001116.2 |
| 106.7 | 84.4 | 91.7 | 92.2 NM_001117.2 |
| 97.7 | 93.8 | 92.1 | 96.3 NM_001118.3 |
| 100.3 | 101.1 | 94.7 | 91 NM_001119.3 |
| 2272.2 | 1746.1 | 1805.6 | 1302.5 NM_001119.3 |
| 97.3 | 92 | 87.2 | 90.4 NM_017483.2 |
| 91.6 | 89.3 | 92 | 83 NM_017488.2 |
| 89.1 | 82.8 | 81.7 | 91.1 NM_001617.1 |
| 87.1 | 86.8 | 85.5 | 85.5 NM_019903.3 |
| 91.5 | 104.9 | 96.6 | 104.9 NM_016824.3 |
| 200.7 | 205.4 | 173.1 | 214.3 NM_016824.3 |
| 158.6 | 165.3 | 138.9 | 180.4 NM_001121.2 |
| 1763 | 3494.4 | 2156.9 | 1943.7 NM_001122.2 |
| 89 | 88.9 | 85.3 | 87.1 NM_000667.2 |
| 89.1 | 92.7 | 85.4 | 92.5 NM_000668.3 |
| 79 | 77.1 | 82 | 83.7 NM_000669.3 |
| 79.2 | 79.8 | 82.2 | 81.4 NM_000670.3 |

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| 113.7 | 107.9 | 104.2 | 92.7 NM_000671.3 |
| 104.4 | 93.1 | 101.1 | 93.3 NM_000672.2 |
| 86.7 | 83.1 | 84.1 | 91.2 NM_000673.3 |
| 103.8 | 87.1 | 95.4 | 88.2 NM_144650.1 |
| 88.3 | 83.8 | 81.8 | 85.1 NM_001077593.1 |
| 102.9 | 91.1 | 91.2 | 106.7 NM_018269.1 |
| 98.5 | 90.9 | 86.4 | 85.5 NM_004797.2 |
| 460 | 518.5 | 409.6 | 373.3 NM_015999.2 |
| 1020.2 | 872.2 | 782.6 | 539 NM_024551.2 |
| 147.4 | 117 | 124.3 | 120.4 NM_006721.2 |
| 92.1 | 80.9 | 83.9 | 92 NM_001123.2 |
| 226.1 | 182 | 174.2 | 164.3 NM_001123.2 |
| 124.5 | 176.1 | 166.2 | 149.1 NM_001124.1 |
| 261.6 | 199.3 | 188.8 | 154.5 NM_024866.3 |
| 98.7 | 90.7 | 87 | 89.1 NM_007264.3 |
| 371.3 | 306.4 | 278.8 | 258.5 NM_181442.1 |
| 118.6 | 167.6 | 159.5 | 179.4 NM_015339.2 |
| 88.2 | 76.3 | 79.3 | 78.6 NM_000674.2 |
| 98.1 | 87 | 82.1 | 95 NM_000674.2 |
| 127 | 115.5 | 108.7 | 117.7 NM_000675.3 |
| 475.6 | 589.6 | 467.2 | 344.6 NM_000676.2 |
| 113.6 | 155.8 | 152.5 | 131.7 NM_020683.5 |
| 183.3 | 174.1 | 158.9 | 117.7 NM_000677.2 |
| 773.2 | 1073 | 846.7 | 657.4 NM_031284.3 |
| 98.3 | 107.8 | 112.9 | 113.9 NM_025225.2 |
| 98.2 | 102.6 | 86.1 | 95.4 NM_001125.2 |
| 89.1 | 81.7 | 85.6 | 89.6 NM_138430.3 |
| 94.5 | 95.6 | 89.8 | 95.4 NM_199162.1 |
| 91.7 | 93.1 | 92.7 | 87.9 NM_138430.3 |
| 192.8 | 191.5 | 212.7 | 139 NM_017825.1 |
| 90.3 | 85.4 | 82.5 | 84.4 NM_000680.1 |
| 84.8 | 79.2 | 81.9 | 86.5 NM_033302.1 |
| 84.4 | 79.9 | 77.5 | 79.5 NM_000680.1 |
| 97.9 | 107.2 | 91.2 | 87.4 NM_033304.1 |
| 106.3 | 90.1 | 84.2 | 92.3 NM_033303.2 |
| 105.5 | 99.8 | 107.9 | 90.4 NM_000679.3 |
| 98.5 | 84.1 | 84.6 | 93.8 NM_000678.2 |
| 96.6 | 97.6 | 93.5 | 94 NM_000681.2 |
| 117.3 | 112.7 | 109.7 | 92.5 NM_000682.4 |
| 103.7 | 110.4 | 100 | 92.5 NM_000683.3 |
| 104.7 | 95.9 | 98.1 | 107.3 NM_000684.1 |
| 147.8 | 136.9 | 170 | 141.4 NM_000024.3 |
| 91.7 | 92.5 | 89.9 | 93.1 NM_000025.1 |
| 86.2 | 86.5 | 89.5 | 93.2 NM_001619.2 |
| 83.9 | 99.5 | 89.7 | 77.5 NM_005160.2 |
| 548.5 | 403.9 | 299.3 | 315.4 NM_175573.1 |
| 1041.3 | 729.9 | 548.6 | 547.4 NM_007002.2 |
| 4595 | 4013.6 | 3579.3 | 2541.6 NM_000026.1 |
| 2597.4 | 1729.4 | 1376.6 | 1374 NM_001126.2 |
| 89.3 | 87 | 84.9 | 90.9 NM_199165.1 |

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| 191.5 | 190.2 | 189.3 | 159.7 NM_199165.1 |
| 108.8 | 107.2 | 101.9 | 96.6 NM_152328.3 |
| 87.8 | 79.9 | 72.5 | 83.1 NM_001129.3 |
| 125.1 | 107.6 | 115.3 | 112.3 NM_153207.3 |
| 874.5 | 581.1 | 497.1 | 463.9 NM_198969.1 |
| 493.8 | 316.3 | 261.9 | 310.6 NM_198970.1 |
| 93.9 | 93.8 | 83.3 | 90 NM_198969.1 |
| 82.5 | 95.8 | 99.3 | 89.8 NM_021638.3 |
| 123.9 | 124 | 125.8 | 94 NM_198595.1 |
| 108.7 | 105.1 | 98.2 | 106 NM_198595.1 |
| 90.6 | 92.6 | 79.9 | 86.9 NM_032550.2 |
| 95.1 | 96.1 | 95.8 | 87.8 NM_201252.1 |
| 83 | 86.1 | 84 | 95.5 NR_002796.1 |
| 96 | 96.8 | 88.2 | 90.3 XR_000989.1 |
| 182.6 | 142 | 218.7 | 186.6 NM_005935.1 |
| 105.2 | 110.6 | 108.9 | 111.3 NM_002025.1 |
| 230.2 | 289.6 | 340.5 | 278.4 NM_002285.2 |
| 90.2 | 101.1 | 97.5 | 91.3 NM_001025108.1 |
| 194.3 | 190.1 | 159.4 | 140.9 NM_014423.2 |
| 535 | 499.3 | 407.6 | 446.8 NM_001031805.1 |
| 133.9 | 128 | 150.4 | 123.8 NM_001031805.1 |
| 94.4 | 98.4 | 84.1 | 82.2 NR_003228.1 |
| 85.7 | 87.5 | 94.7 | 93.9 NR_003228.1 |
| 1147.2 | 935.9 | 1168.3 | 635.8 NM_006796.1 |
| 74.4 | 84.6 | 85.5 | 82.7 NM_001133.2 |
| 93.4 | 96.7 | 88 | 90.8 NM_001010982.1 |
| 94.4 | 90.6 | 73.6 | 79.9 NM_001134.1 |
| 134.4 | 102.6 | 130.8 | 112 NM_203437.2 |
| 111.4 | 111.6 | 116.3 | 104.4 NM_203437.2 |
| 204 | 258.2 | 168.4 | 176.8 NM_017657.3 |
| 334.1 | 229.3 | 234.8 | 225.4 NM_000027.2 |
| 83.7 | 91 | 88.8 | 88.7 NM_152336.2 |
| 99.5 | 99.1 | 88 | 84.7 NM_024783.2 |
| 85.8 | 82.6 | 82.2 | 82.5 NM_032785.1 |
| 106.8 | 110.9 | 98.9 | 104.7 NM_001135.1 |
| 81.2 | 77.4 | 73.2 | 90.4 NM_013227.1 |
| 89.4 | 92.7 | 81.6 | 86.2 NM_001136.3 |
| 100.3 | 120.9 | 103.4 | 112.6 NM_001136.3 |
| 802.6 | 945.4 | 774.1 | 616 NM_018046.3 |
| 86 | 90 | 83.3 | 89.9 NM_000642.1 |
| 90.6 | 86.5 | 99.5 | 102.8 NM_000646.2 |
| 357.4 | 298.3 | 284.6 | 312.1 NM_000645.2 |
| 94.5 | 88.7 | 81 | 88.5 NM_000028.1 |
| 91.8 | 101.4 | 97.1 | 86.3 NM_000645.2 |
| 150.9 | 120.3 | 122.7 | 144.9 NM_000645.2 |
| 322.2 | 209.2 | 192.6 | 155.7 NM_024758.3 |
| 88.8 | 82.3 | 83.1 | 82.5 NM_032741.3 |
| 92.7 | 96.1 | 83.7 | 88.4 NM_006411.2 |
| 229 | 313.8 | 236.8 | 293.2 NM_006411.2 |
| 732.6 | 545.3 | 527.2 | 480.2 NM_006412.3 |

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| 652.4 | 442.3 | 383.8 | 345.4 NM_006412.3 |
| 442.6 | 342.3 | 299.9 | 231.4 NM_001012727.1 |
| 92.3 | 98.4 | 93.5 | 103.8 NM_020132.4 |
| 166.5 | 200.1 | 192.1 | 168.7 NM_020132.3 |
| 149.9 | 166 | 164.1 | 170.6 NM_001012734.1 |
| 455.7 | 288 | 271 | 206.9 NM_018361.2 |
| 89.3 | 89.9 | 80.2 | 102.6 NM_178819.2 |
| 116.2 | 114.8 | 110.3 | 110.4 NM_153613.1 |
| 1044.1 | 887.1 | 683.4 | 646 NM_003659.1 |
| 88.4 | 78.2 | 70.2 | 82.7 NM_006408.2 |
| 88.5 | 89.4 | 81.3 | 86.3 NM_176813.3 |
| 100.8 | 79.1 | 84.7 | 89.2 NM_198576.2 |
| 86.7 | 82.8 | 76.7 | 89.1 NM_001138.1 |
| 101.1 | 87.2 | 85.5 | 89.1 NM_007316.1 |
| 701.9 | 874.9 | 777.5 | 576.2 NM_000029.2 |
| 96.4 | 100.3 | 81.2 | 105.1 NM_015239.1 |
| 74.6 | 89.2 | 79.2 | 86.4 NM_032049.1 |
| 82.9 | 90.7 | 83.8 | 99.7 NM_004835.3 |
| 88.7 | 109.3 | 92.9 | 79.8 NM_000686.3 |
| 187.4 | 152.4 | 134.4 | 139.1 NM_020350.3 |
| 147.1 | 128.9 | 137.8 | 113.1 NM_001040194.1 |
| 94.3 | 91.4 | 79.1 | 86.1 NM_005161.2 |
| 86.5 | 86.8 | 97.2 | 82 NM_000030.1 |
| 86.9 | 94.9 | 77.6 | 85.7 NM_031900.1 |
| 80.6 | 82.6 | 87 | 81.1 NM_031279.2 |
| 577.8 | 637.6 | 586.3 | 547.3 NM_015446.3 |
| 719.9 | 748.9 | 554.6 | 522.8 XM_942402.1 |
| 5220.2 | 4680 | 3407.4 | 3345.1 NM_000687.1 |
| 1653.7 | 1069.4 | 1023.1 | 833.6 NM_006621.3 |
| 111.3 | 109.2 | 113 | 125.9 NM_001029882.1 |
| 219.4 | 272.6 | 246.3 | 227.4 NM_017651.3 |
| 765.5 | 1641.8 | 1809.9 | 1371.7 NM_001620.1 |
| 140.4 | 111.3 | 121.9 | 113.8 NM_024060.2 |
| 112.4 | 85.1 | 92.4 | 94.8 NM_024060.2 |
| 112.6 | 94.8 | 93.8 | 99.1 NM_001621.3 |
| 105 | 106 | 106.6 | 106.7 NM_020731.2 |
| 1039.4 | 653.4 | 585.9 | 432.1 NM_012111.1 |
| 164.4 | 142.8 | 197.5 | 197.3 NM_152392.1 |
| 101.9 | 89.3 | 88.9 | 89.2 NM_001622.1 |
| 87.3 | 86.3 | 79.3 | 85.4 NM_020661.1 |
| 2692.1 | 4010.6 | 2929.7 | 2272.3 NM_001623.3 |
| 7030.7 | 6045.4 | 4991.4 | 7242.5 NM_001623.3 |
| 105.6 | 102.3 | 96.2 | 111.4 NM_004847.2 |
| 93.5 | 92.3 | 92.5 | 86.5 NM_144704.1 |
| 1039.4 | 1018 | 1044.6 | 674.2 NM_145813.1 |
| 418.3 | 649.2 | 478.8 | 481.2 NM_016108.2 |
| 114.9 | 152 | 122.2 | 117.9 NM_001624.1 |
| 94.2 | 88.3 | 86.4 | 90.4 NM_017977.1 |
| 93.1 | 86.7 | 86.6 | 92.6 NM_004833.1 |
| 896.9 | 752.3 | 702.6 | 561.8 NM_003977.1 |

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| 98.9 | 88.6 | 108.5 | 89.6 NM_014336.3 |
| 97.3 | 101.5 | 89.4 | 86.7 NM_001033054.1 |
| 96 | 99.7 | 90.9 | 88.2 NM_000659.1 |
| 2512.8 | 4101.8 | 5157.3 | 2879.1 NM_000383.1 |
| 81.1 | 88.4 | 75.8 | 87.5 NM_018836.2 |
| 84.8 | 91.5 | 71.4 | 87.3 NM_001042478.1 |
| 105 | 103.2 | 100.7 | 98.6 NM_001042478.1 |
| 260.5 | 199.8 | 180.6 | 139.7 NM_000476.1 |
| 344.9 | 229.4 | 272.1 | 221.9 NM_001625.2 |
| 391.6 | 375.8 | 335.4 | 252.6 NM_013411.3 |
| 2658.2 | 1875.9 | 1918.1 | 1269.3 NM_001625.2 |
| 1705.8 | 1252.2 | 1232 | 947.3 NM_016282.2 |
| 515.5 | 464.2 | 394.1 | 407 NM_013410.2 |
| 83.7 | 86.1 | 85 | 82.2 NM_203464.1 |
| 90 | 81.1 | 79.2 | 78.6 NM_174858.1 |
| 85.8 | 94.5 | 80.3 | 83.2 NM_012093.2 |
| 83.2 | 90.8 | 89.6 | 92.1 NM_012093.2 |
| 94.9 | 86.9 | 92 | 87.5 NM_152327.1 |
| 154.7 | 142.7 | 131.5 | 189.9 NM_003488.2 |
| 120.1 | 135.3 | 129.2 | 118.4 NM_007202.2 |
| 80.4 | 80.3 | 71.7 | 79.7 NM_144490.1 |
| 280.3 | 346.8 | 328.2 | 341.7 NM_016248.2 |
| 119 | 127.1 | 123.6 | 120.8 NM_144490.1 |
| 92.5 | 90.8 | 91.3 | 99.3 NM_005100.2 |
| 77.5 | 92.8 | 77.2 | 82.6 NM_144497.1 |
| 151.6 | 139.2 | 102.9 | 112.8 NM_005100.2 |
| 117.5 | 169.2 | 142.3 | 131.9 NM_006738.4 |
| 246.7 | 554.9 | 545.4 | 292.9 NM_007200.3 |
| 85.7 | 70.4 | 89.5 | 77.4 NM_178813.5 |
| 90 | 79.5 | 82.3 | 91.4 NM_001008535.1 |
| 101.3 | 93.5 | 89.3 | 93 NM_001008535.1 |
| 86.5 | 91 | 79.6 | 96.6 NM_001004065.2 |
| 96 | 92.8 | 102.3 | 91.8 NM_006422.2 |
| 90.6 | 93.6 | 78.4 | 89 NM_003886.2 |
| 109.2 | 105.8 | 91.5 | 96.6 NM_139289.1 |
| 101.6 | 106.5 | 95.8 | 92.7 NM_139289.1 |
| 76.2 | 77.4 | 75.7 | 79.7 NM_004857.2 |
| 84.6 | 90.6 | 85.9 | 91.4 NM_004274.3 |
| 81.6 | 81.5 | 73.8 | 77 NM_138633.1 |
| 100.8 | 99.8 | 86.7 | 99.2 NM_016377.2 |
| 796.7 | 664.8 | 676.6 | 601.7 NM_016377.2 |
| 102.8 | 102.6 | 112.2 | 95.5 NM_004842.2 |
| 613.3 | 540.7 | 462.5 | 384.5 NM_005858.2 |
| 227 | 217.9 | 199.9 | 186 NM_014371.2 |
| 87.3 | 87.5 | 83.5 | 92.9 NM_147185.1 |
| 89.9 | 88.5 | 86.2 | 90.6 NM_147166.1 |
| 270.3 | 341.3 | 323.7 | 298.3 NM_030767.2 |
| 1071.8 | 1197.9 | 1236.6 | 939.3 NM_006066.2 |
| 101.4 | 84.2 | 100 | 100.9 NM_006066.2 |
| 824 | 817.4 | 825.4 | 697.3 NM_153326.1 |

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| 2421.6 | 1898.3 | 1520.7 | 1336.8 | NM_001628.2 |
| 88.9 | 84.2 | 79.8 | 83.7 | NM_020299.3 |
| 82.9 | 70.5 | 73.3 | 86.3 | NM_001353.5 |
| 542.3 | 551.2 | 378.5 | 272.1 | NM_001354.4 |
| 123.4 | 139.5 | 114.7 | 106.1 | NM_003739.4 |
| 101.3 | 97.2 | 93.1 | 99.1 | NM_001818.2 |
| 107.5 | 105.7 | 96.6 | 92.5 | NM_001007536.1 |
| 94.2 | 85.7 | 88.1 | 81.9 | NM_031436.2 |
| 4109.8 | 7120.3 | 8995 | 5059.1 | NM_005989.2 |
| 2519.7 | 1984.3 | 2145.4 | 1086.6 | NM_003689.2 |
| 545.4 | 417.5 | 358.1 | 287.3 | NM_012067.2 |
| 2932.6 | 2541 | 2126.8 | 1256.8 | NM_001014432.1 |
| 2216.6 | 1540.2 | 1539.9 | 1145.9 | NM_001014431.1 |
| 85.3 | 93.5 | 91.3 | 78.9 | NM_005163.2 |
| 104.4 | 111.5 | 102.6 | 93.8 | NM_032375.2 |
| 113.1 | 114.8 | 107.8 | 100.3 | NM_001626.2 |
| 99.6 | 90.8 | 81.4 | 93 | NM_181690.1 |
| 94.6 | 91.8 | 84.6 | 84.4 | NM_005465.3 |
| 98.1 | 89 | 99.1 | 82.3 | NM_181690.1 |
| 312.3 | 217.6 | 199.2 | 209.7 | NM_001012398.1 |
| 87.9 | 87.4 | 77.6 | 86.5 | NM_000031.4 |
| 412.2 | 491.3 | 414.6 | 284.6 | NM_001003945.1 |
| 91.4 | 81.6 | 78.7 | 85.9 | NM_001003945.1 |
| 106.3 | 103.6 | 94.9 | 112 | NM_000688.4 |
| 122.6 | 110 | 111 | 92.5 | NM_199166.1 |
| 94.5 | 93.6 | 86.6 | 94.7 | NM_000688.4 |
| 87.7 | 91.2 | 86.8 | 85.9 | NM_000032.1 |
| 87.7 | 86.9 | 88.9 | 85.1 | NM_001037968.1 |
| 98.1 | 88.8 | 88 | 98.1 | NM_001037968.1 |
| 95.3 | 104.9 | 91.1 | 90.6 | NM_000477.3 |
| 427 | 600 | 372.7 | 485.3 | NM_001627.2 |
| 375.7 | 262.2 | 231.6 | 224.4 | NM_153329.2 |
| 312 | 281.2 | 234.6 | 163.2 | NM_002860.3 |
| 86.1 | 88.6 | 83.3 | 95.3 | NM_000689.3 |
| 87.8 | 104 | 88.9 | 95.6 | NM_170696.1 |
| 114.9 | 104.1 | 108 | 101.1 | NM_170696.1 |
| 92.4 | 86 | 84.8 | 96.7 | NM_000693.1 |
| 265.1 | 163.8 | 171 | 146.3 | NM_000692.3 |
| 98.2 | 88.7 | 83.8 | 83.8 | NM_012190.2 |
| 89.3 | 92.8 | 83.3 | 88.3 | NM_001034173.1 |
| 831.2 | 1424.5 | 1112.2 | 909.5 | NM_000690.2 |
| 94.8 | 98.2 | 85.2 | 98.2 | NM_000691.3 |
| 102.9 | 114.3 | 100.3 | 96.7 | NM_001031806.1 |
| 171.8 | 234.8 | 214 | 168 | NM_001031806.1 |
| 97.5 | 112.8 | 91.6 | 107 | NM_000694.2 |
| 473.2 | 547.8 | 509.9 | 404.3 | NM_001030010.1 |
| 91 | 93.8 | 96.8 | 89.2 | NM_001031615.1 |
| 73.8 | 82.9 | 72 | 88.8 | NM_000695.3 |
| 87.8 | 81 | 85 | 87.4 | NM_000695.3 |
| 93.4 | 84.8 | 75.9 | 92.7 | NM_003748.2 |

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| 111.3 | 121.3 | 111.8 | 98.3 NM_170726.1 |
| 106.7 | 111.5 | 100.3 | 94.7 NM_170726.1 |
| 210.3 | 253.3 | 208.8 | 220.4 NM_001080.3 |
| 103.3 | 94.2 | 96.2 | 96.4 NM_005589.2 |
| 182.9 | 200.8 | 208.3 | 171.9 NM_001182.2 |
| 112.1 | 116.6 | 122.1 | 116.4 NM_022568.2 |
| 83.1 | 81.8 | 90.5 | 89.4 NM_022568.2 |
| 6701.8 | 4413.3 | 4361 | 2614.5 NM_000696.2 |
| 114.9 | 109.5 | 113.7 | 98.5 NM_000034.2 |
| 5466.1 | 4371 | 4071 | 3483.3 NM_184041.1 |
| 107.3 | 108.9 | 99.3 | 90.6 NM_184043.1 |
| 5443.2 | 3654.3 | 3123 | 2319.4 NM_184041.1 |
| 90.3 | 105.7 | 99.2 | 96.6 NM_000035.2 |
| 502.2 | 407.2 | 402.1 | 232.4 NM_005165.2 |
| 100 | 94.2 | 89.8 | 90.7 NM_172196.1 |
| 83.7 | 76.9 | 83 | 85.4 NM_006872.2 |
| 259.4 | 143.9 | 150.4 | 124.1 NM_019109.3 |
| 109.7 | 99.1 | 105.3 | 98 NM_032834.2 |
| 113.6 | 143.6 | 133.1 | 155.4 NM_001004127.1 |
| 120.5 | 111 | 118.8 | 100.9 NM_024105.3 |
| 115 | 94.1 | 93.1 | 102.5 NM_018466.2 |
| 167.3 | 125.7 | 124.2 | 133.7 NM_144988.2 |
| 95.4 | 94.7 | 88.8 | 93.2 NM_033087.2 |
| 915.3 | 615 | 566.2 | 333.4 NM_001006940.1 |
| 1107.6 | 663.8 | 561.5 | 699.9 NM_013338.3 |
| 365.4 | 324 | 263.2 | 283.6 NM_013339.2 |
| 1022 | 595.7 | 499.9 | 551.9 NM_001007027.2 |
| 89.5 | 96 | 94.9 | 96.5 NM_001007027.2 |
| 2198.2 | 1222.8 | 995 | 842.9 NM_001007027.1 |
| 382.1 | 243.8 | 231.9 | 177.4 NM_024740.1 |
| 95.1 | 87.3 | 92.7 | 82 NM_004304.3 |
| 339.7 | 200.1 | 193 | 199 NM_006020.1 |
| 140.7 | 122.1 | 105.4 | 123.9 NM_006020.2 |
| 350.8 | 228.9 | 193.8 | 209.8 NM_006020.2 |
| 227.7 | 164.2 | 162.1 | 134.2 NM_001001655.1 |
| 582.7 | 590.1 | 540.9 | 490.7 NM_139178.1 |
| 152.3 | 163.6 | 120.6 | 121.2 NM_017621.2 |
| 2714.1 | 2720.3 | 2561.5 | 1327.2 NM_017758.2 |
| 316.5 | 289.9 | 313.3 | 199.3 NM_198867.1 |
| 308.9 | 290.5 | 244.3 | 204 NM_032306.2 |
| 194.8 | 164.5 | 158.9 | 129.4 NM_138775.1 |
| 88.2 | 91 | 88.7 | 93.8 NM_199232.1 |
| 87.9 | 74.1 | 73.3 | 80.7 NM_018436.2 |
| 83 | 95.8 | 95.2 | 89.2 NM_018436.2 |
| 154.9 | 175.1 | 164.2 | 151.2 NM_015120.2 |
| 85.1 | 87.6 | 85.4 | 87.4 NM_000697.1 |
| 94 | 86.3 | 85.9 | 84.8 NM_001139.1 |
| 89.7 | 82.3 | 78.5 | 95 NR_002710.2 |
| 107.9 | 92.1 | 99.7 | 99.3 XM_937556.1 |
| 90.1 | 91.7 | 74.4 | 78.7 NM_001140.3 |

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| 96.8 | 90.1 | 77.8 | 82.2 NM_001141.2 |
| 94.8 | 85.6 | 88.3 | 90 NM_001141.1 |
| 102.6 | 97.1 | 112.7 | 86.4 NM_001039131.1 |
| 558.1 | 1147 | 971.5 | 476.2 NM_000698.2 |
| 105.1 | 104.4 | 95.2 | 102 NM_000698.2 |
| 2431.8 | 2480 | 2173.7 | 1535.8 NM_001629.2 |
| 99.9 | 104.7 | 98.7 | 90.8 NM_021628.1 |
| 95.6 | 91.5 | 87.6 | 90.8 NM_001631.2 |
| 213.1 | 198.4 | 178.8 | 184.6 NM_025144.2 |
| 87.3 | 90.5 | 87.2 | 90.8 NM_020778.1 |
| 99.7 | 94.6 | 88.6 | 92.4 NM_000478.2 |
| 1239 | 1989 | 2867.8 | 1895.5 NM_001632.2 |
| 136.9 | 134.3 | 139.6 | 122.4 NM_031313.1 |
| 354 | 491.9 | 413.3 | 352.8 NM_020919.2 |
| 97.4 | 90.5 | 81.1 | 90 NM_147129.2 |
| 100.5 | 93.8 | 82.3 | 93.6 NM_147129.2 |
| 83.9 | 87.3 | 81.8 | 85.6 NM_182775.1 |
| 100.7 | 103.2 | 94 | 90.7 NM_152525.3 |
| 93.4 | 73.7 | 84.6 | 83.2 NM_139163.1 |
| 537.2 | 888 | 772.4 | 723.8 NM_173511.2 |
| 114.6 | 114.4 | 109.2 | 111.1 NM_138468.3 |
| 87.8 | 99 | 94.7 | 99.5 NM_205543.1 |
| 90.7 | 87.5 | 88.3 | 90.7 NM_152526.3 |
| 424.9 | 483.5 | 430.3 | 369.5 NM_018571.4 |
| 387.6 | 275 | 235.2 | 204.2 NM_152388.1 |
| 83.9 | 85.9 | 86.3 | 94.4 NM_139158.1 |
| 118.8 | 100.6 | 101.9 | 99.8 NM_024744.12 |
| 81.1 | 84.4 | 80 | 81.9 NM_006492.2 |
| 88.7 | 87 | 83.7 | 81.7 NM_021926.2 |
| 91.4 | 100.1 | 77.7 | 83 NM_152462.1 |
| 100.7 | 104.5 | 98.2 | 106.9 NM_054028.1 |
| 124.3 | 144.8 | 117.7 | 111.9 NM_014324.4 |
| 132.6 | 141.2 | 121 | 123.6 NM_203382.1 |
| 97.5 | 96.5 | 86.8 | 100.7 NM_016519.4 |
| 89.6 | 81.9 | 84.4 | 91.2 NM_016519.4 |
| 106.9 | 105.4 | 97.2 | 92.5 NM_001633.2 |
| 2575.7 | 1521.5 | 1559.3 | 1048.5 NM_001033059.1 |
| 746.9 | 546.2 | 533.6 | 377.6 NM_001634.4 |
| 99.4 | 105.5 | 101.4 | 90.1 NM_152435.1 |
| 121.5 | 109.3 | 99.1 | 109.5 NM_015944.2 |
| 94.2 | 86.6 | 96.4 | 97.6 NM_001142.2 |
| 109.8 | 100.7 | 105 | 95 NM_001143.1 |
| 393.1 | 331.5 | 236.2 | 240.3 NM_138958.1 |
| 121.2 | 120.1 | 98 | 112.1 NM_001144.3 |
| 93.8 | 79.9 | 78.5 | 92.1 NM_000479.2 |
| 92.1 | 85.9 | 87.4 | 87.2 NM_020547.1 |
| 114.5 | 142.1 | 148.9 | 141.5 NM_153206.1 |
| 148 | 137.6 | 118.3 | 131 NM_032797.4 |
| 93.7 | 109.6 | 89 | 89.2 NM_020703.1 |
| 106.4 | 86.9 | 96.1 | 97.1 NM_181847.2 |

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| 87.2 | 83.3 | 99.4 | 92.9 NM_198722.1 |
| 105 | 102.4 | 92.6 | 98.4 NM_015365.2 |
| 211.4 | 198.9 | 175 | 190.4 NM_001025580.1 |
| 199.9 | 174.9 | 149.7 | 152.4 NM_001025580.1 |
| 106.6 | 97.3 | 98.3 | 96.7 NM_030943.1 |
| 106.4 | 121.9 | 96.9 | 101.9 NM_133265.2 |
| 88.1 | 87.6 | 85.2 | 81.1 NM_016201.2 |
| 90.2 | 75 | 84.6 | 85.3 NM_000036.1 |
| 91.1 | 89.2 | 83.2 | 92.7 NM_004037.6 |
| 74 | 85.2 | 79.2 | 85.6 NM_203404.1 |
| 94.2 | 84.4 | 86.8 | 84.8 NM_139156.2 |
| 107.9 | 101.3 | 101.2 | 106.2 NM_001025389.1 |
| 86.5 | 93.8 | 92 | 93.1 NM_000480.2 |
| 110.6 | 96.3 | 84 | 90.6 NM_001025389.1 |
| 96.3 | 87.4 | 77.3 | 98.8 NM_001025390.1 |
| 100.9 | 93.1 | 97.2 | 88.6 NM_001635.2 |
| 88.1 | 94.8 | 87.4 | 85.5 NM_001635.2 |
| 148.7 | 141.4 | 168.4 | 102.5 NM_000481.2 |
| 93.2 | 79.6 | 84.3 | 85.6 NM_001008221.1 |
| 457.3 | 350.7 | 345.2 | 352.1 NM_004038.3 |
| 91.4 | 79.3 | 80.3 | 76.6 NM_004038.3 |
| 86.6 | 92.4 | 80.8 | 83.1 NM_001008218.1 |
| 102 | 95.3 | 87.4 | 84.7 NM_000699.2 |
| 101.9 | 105.9 | 101.2 | 110.8 NM_020978.3 |
| 89.7 | 91.8 | 86.2 | 101.5 NM_133463.1 |
| 96 | 88.2 | 96.3 | 85.4 NM_001033574.1 |
| 1081.1 | 1222.2 | 974.2 | 853.1 NM_016627.4 |
| 1119.6 | 1208.8 | 1106.6 | 718.6 NM_022662.2 |
| 750.6 | 492.7 | 424.9 | 387.9 NM_014885.1 |
| 926.7 | 670.8 | 676.5 | 397.9 NM_001002246.1 |
| 91.5 | 95.3 | 88.7 | 93.3 NM_001002244.1 |
| 819.1 | 807.6 | 810.5 | 464 NM_001002247.1 |
| 2832.6 | 2259.8 | 2158.8 | 1483.2 NM_015391.1 |
| 98.5 | 117.6 | 106.7 | 101 NM_013366.3 |
| 130 | 140.9 | 114.2 | 112.4 NM_013366.3 |
| 741.1 | 705.4 | 712.3 | 448.3 NM_013367.2 |
| 2044.3 | 2175.2 | 1800.3 | 1465.1 NM_016237.3 |
| 199.6 | 147.2 | 141.7 | 152.4 NM_016238.1 |
| 121.9 | 138.6 | 150.5 | 115.2 NM_001145.2 |
| 179.4 | 171 | 148.5 | 159 NM_015305.2 |
| 901.5 | 830.7 | 1070.6 | 778.8 NM_144567.3 |
| 104.5 | 107.2 | 100.3 | 88.2 NM_001146.3 |
| 103.2 | 98.3 | 92.1 | 99.4 NM_001147.1 |
| 78.8 | 80.6 | 81.6 | 85.8 NM_015985.2 |
| 94.7 | 93.4 | 82.7 | 78.3 NM_004673.3 |
| 96 | 92.6 | 79.8 | 75.3 NM_012098.2 |
| 87.8 | 88 | 83.2 | 86.1 NM_014495.2 |
| 91.5 | 88.4 | 78.4 | 86.3 NM_139314.1 |
| 85.6 | 85.9 | 90 | 81.2 NM_001039667.1 |
| 94.3 | 93.5 | 85.5 | 87.3 NM_139314.1 |

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| 87.7 | 89.5 | 87.7 | 97 NM_178127.2 |
| 95.3 | 112.8 | 123.6 | 129.9 NM_031917.2 |
| 91.8 | 94.9 | 86.9 | 100.5 NM_021146.2 |
| 100.6 | 98.5 | 88.3 | 90.3 NM_020475.2 |
| 85.6 | 93.7 | 77.4 | 76.6 NM_020480.2 |
| 91.2 | 90.3 | 77.9 | 78.6 NM_020977.2 |
| 98.2 | 85.6 | 90.3 | 91.7 NM_001148.3 |
| 100.4 | 102.6 | 95 | 94.7 NM_001149.2 |
| 105.3 | 103.5 | 98.8 | 82 NM_001149.2 |
| 107.2 | 92.6 | 79.9 | 84.4 NM_020987.2 |
| 93.9 | 88.8 | 86.9 | 94.8 NM_144708.2 |
| 202.3 | 176.2 | 171.9 | 162.7 NM_182703.2 |
| 76.9 | 82.5 | 76.1 | 86.5 NM_153228.1 |
| 165.6 | 277.6 | 249.5 | 169.7 NM_016376.2 |
| 134.9 | 159.2 | 172.1 | 166.7 NM_020740.1 |
| 89.4 | 103.4 | 105 | 101.7 NM_020740.1 |
| 81.3 | 80.3 | 83.6 | 93 NM_054027.3 |
| 115.1 | 117.3 | 129.8 | 112.1 NM_024668.2 |
| 79.5 | 79.1 | 81.4 | 75.1 NM_017978.1 |
| 88.5 | 77.8 | 82.2 | 89.9 NM_178510.1 |
| 240 | 329.1 | 394.2 | 218 NM_016552.2 |
| 86.9 | 94.4 | 80 | 84.9 NM_017844.2 |
| 89.2 | 94.6 | 93.1 | 93.5 NM_016552.2 |
| 433.5 | 356.2 | 341.2 | 288.3 NM_020319.1 |
| 310.3 | 449.6 | 429.8 | 338.7 NM_023039.2 |
| 92.8 | 91.7 | 98.7 | 94.2 NM_014391.2 |
| 412.6 | 321.1 | 384 | 345.7 NM_017664.2 |
| 439.3 | 634.4 | 610.6 | 426.9 NM_013275.4 |
| 275.6 | 494.9 | 479.6 | 405.7 NM_015208.2 |
| 536.2 | 551.6 | 530 | 472.3 NM_033121.1 |
| 111 | 95.8 | 97.4 | 103.1 NM_152345.3 |
| 276.7 | 220.7 | 210 | 221.1 NM_030816.2 |
| 97.5 | 102.3 | 91.3 | 93.5 NM_207354.1 |
| 96.3 | 92.7 | 89.3 | 93.7 NM_015158.2 |
| 89.3 | 88.6 | 73.9 | 94.4 NM_153186.3 |
| 321.9 | 276.7 | 230.4 | 266.6 NM_153186.3 |
| 182.6 | 128.4 | 126.5 | 111.4 NM_001009941.1 |
| 83.1 | 91.3 | 83.2 | 86.4 NM_019046.1 |
| 150.9 | 102.6 | 104.3 | 114.1 NM_001009941.1 |
| 120.9 | 117.3 | 110 | 109.4 NM_032217.3 |
| 231.8 | 249.9 | 246.1 | 206.2 NM_198889.1 |
| 439.2 | 401.2 | 323.1 | 398 NM_198889.1 |
| 90.8 | 97.2 | 82.2 | 81 NM_001010925.1 |
| 90.2 | 100 | 92.5 | 94.8 NM_020349.2 |
| 144.6 | 182.3 | 180.4 | 192.6 NM_032250.1 |
| 90.3 | 96.5 | 90.2 | 90.7 NM_001012419.1 |
| 89.2 | 85.2 | 75.8 | 85.7 NM_001012419.1 |
| 88.8 | 83.5 | 86.7 | 90.2 NR_003366.1 |
| 85.6 | 88.3 | 76.4 | 99.3 XM_934275.1 |
| 87 | 86.7 | 90.9 | 94 NM_174981.2 |

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| 85.6 | 76.9 | 76.8 | 80.9 NM_144590.1 |
| 110 | 99.5 | 91.3 | 88.4 NM_144994.7 |
| 79.5 | 80.5 | 89.9 | 83.4 NM_133475.1 |
| 184.9 | 180.8 | 170.5 | 163.5 NM_015493.4 |
| 127.8 | 125.7 | 119.1 | 123.3 NM_014915.1 |
| 143.7 | 113.3 | 104.5 | 127.2 NM_032139.1 |
| 194.8 | 180.9 | 178.8 | 177.6 NM_015199.2 |
| 100.4 | 101.1 | 90.7 | 98.6 NM_173505.2 |
| 103.5 | 83.9 | 84.1 | 84.5 NM_052997.1 |
| 89.7 | 78.3 | 87.3 | 85.7 XM_940707.1 |
| 88.5 | 82.5 | 82.4 | 92.5 NM_001029862.1 |
| 202.1 | 191.6 | 168 | 170.9 NM_032290.2 |
| 225.4 | 307.5 | 249.6 | 185.6 NM_182608.2 |
| 105.9 | 95.6 | 99.8 | 87.9 NM_001039888.2 |
| 87.6 | 82.9 | 81.9 | 79 NM_144698.3 |
| 104.2 | 100 | 105 | 100 NM_198555.3 |
| 88.6 | 80.2 | 87.3 | 94.8 NM_198555.3 |
| 127.5 | 127.8 | 151.8 | 130 NM_198555.3 |
| 119.7 | 202.3 | 171.7 | 174.7 NM_181726.1 |
| 89.7 | 103.9 | 96.5 | 94 NM_181712.2 |
| 334.6 | 231.5 | 209.9 | 192.5 NM_016466.4 |
| 87.5 | 104.2 | 90.4 | 89.4 NM_052855.2 |
| 124.4 | 108.4 | 106.1 | 120.5 NM_152363.2 |
| 88.8 | 88.4 | 95.4 | 85.3 NM_182603.1 |
| 88.8 | 89.4 | 89.8 | 90.7 NM_175873.3 |
| 109.2 | 130.5 | 134.3 | 124.2 NM_153697.1 |
| 88.9 | 82.3 | 83.1 | 95.4 NM_198493.1 |
| 645.8 | 436.1 | 368 | 337 NM_198401.2 |
| 104.7 | 100.2 | 96.9 | 108.9 NM_198471.1 |
| 575 | 405.8 | 343.8 | 429.3 NM_017704.2 |
| 89.2 | 91 | 84.4 | 90.4 NM_022096.4 |
| 81.5 | 80.5 | 76.2 | 79.3 NM_022096.4 |
| 83 | 86.6 | 84.1 | 88.8 NM_198798.1 |
| 280.8 | 309.2 | 288 | 270.4 NM_020337.1 |
| 113.8 | 124 | 110.5 | 106.2 NM_001039935.1 |
| 86.8 | 89.3 | 80.7 | 93.7 NM_001029870.1 |
| 196.1 | 187 | 200.3 | 184.8 NM_014942.2 |
| 100.1 | 98.5 | 98.9 | 85.7 NM_001077708.1 |
| 100.1 | 96.8 | 89.6 | 85.6 NM_019644.1 |
| 687.1 | 575.6 | 516.8 | 280.7 NM_152326.2 |
| 440.1 | 542.6 | 508.2 | 357.4 NM_015245.1 |
| 80.8 | 77 | 78.1 | 80.7 NM_181670.2 |
| 83.7 | 83.8 | 77 | 79.8 NM_152788.3 |
| 93 | 93.8 | 98.5 | 79.5 NM_020140.2 |
| 129.7 | 118.3 | 134.3 | 125.2 NM_133450.1 |
| 81.6 | 94 | 77.1 | 93.5 NM_145865.1 |
| 90.3 | 85.1 | 85 | 87.7 NM_173551.3 |
| 245.2 | 226.2 | 225.2 | 182.9 NM_018089.1 |
| 101.8 | 103.7 | 107.4 | 93.1 NM_018089.1 |
| 100.9 | 97.5 | 109.7 | 114.8 NM_018089.1 |

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| 375.7 | 252.8 | 248.7 | 312.7 | NM_018685.2 |
| 106.6 | 113.8 | 102.5 | 99.2 | NM_006305.2 |
| 16167.2 | 9892.3 | 8760.2 | 8050.7 | NM_006401.1 |
| 99.7 | 100.3 | 80.2 | 78.5 | NM_012403.1 |
| 78.6 | 75.6 | 75.8 | 83.3 | NM_012404.2 |
| 84.1 | 88.9 | 74.4 | 85.9 | NM_030920.2 |
| 573.2 | 774.5 | 740.1 | 588.9 | NM_001150.1 |
| 214.9 | 212.2 | 215 | 188.9 | NM_032208.1 |
| 119 | 124.3 | 100.6 | 105.5 | NM_018153.2 |
| 102.2 | 92.9 | 99 | 99.8 | NM_053034.1 |
| 231.3 | 223.5 | 200.6 | 210.5 | NM_058172.3 |
| 88.7 | 86.8 | 81 | 83.7 | NM_174890.1 |
| 5847.5 | 6432.9 | 4329 | 5753.2 | NM_000700.1 |
| 79.9 | 77.3 | 76.3 | 81.6 | NM_007193.3 |
| 209.9 | 154.6 | 151.7 | 155.1 | NM_001157.2 |
| 432.2 | 343.7 | 375 | 253.4 | NM_145868.1 |
| 97.1 | 97.9 | 94 | 105.8 | NM_145869.1 |
| 81.7 | 78.9 | 76 | 88.4 | NM_004306.2 |
| 95.5 | 89.5 | 80.2 | 100.1 | NM_001003954.1 |
| 103.6 | 92.3 | 93.3 | 92.5 | NM_001003954.1 |
| 864.1 | 736.8 | 613.6 | 468.1 | NM_001002857.1 |
| 272.5 | 225.9 | 202.5 | 172.6 | NM_001002857.1 |
| 6137.6 | 6219.9 | 4896.9 | 3439.5 | NM_001002858.1 |
| 833.9 | 804.4 | 604.7 | 792.6 | NR_001562.1 |
| 87.5 | 74.2 | 76.4 | 76.9 | NM_005139.1 |
| 141.9 | 139 | 146.6 | 152.6 | NM_001153.2 |
| 3108.6 | 2971.7 | 2550.9 | 2072.8 | NM_001154.2 |
| 123.7 | 140 | 125.8 | 115.6 | NM_004033.2 |
| 244.8 | 193.7 | 196.4 | 174.7 | NM_001155.3 |
| 87.9 | 83.7 | 86 | 88.1 | NM_004034.1 |
| 1843.1 | 1021.9 | 956.2 | 934.9 | NM_004034.1 |
| 112.9 | 109.8 | 113.5 | 93.1 | NM_001630.2 |
| 116.4 | 107.8 | 86.6 | 92.5 | NM_001040084.1 |
| 85 | 89.3 | 86.5 | 95.5 | NM_003568.1 |
| 106 | 109 | 117.8 | 103.9 | NM_001637.1 |
| 102.6 | 108.9 | 106.2 | 89.9 | NM_009590.2 |
| 106.5 | 88.6 | 87.9 | 93.3 | NM_001158.3 |
| 91.9 | 93.8 | 81.4 | 86.3 | NM_001158.3 |
| 90.1 | 83.2 | 82.9 | 80.1 | NM_003734.2 |
| 81.3 | 90.8 | 85.8 | 85.9 | NM_153042.2 |
| 683.8 | 874.8 | 758.5 | 515.6 | NM_015013.2 |
| 87.2 | 86.4 | 84.8 | 84.5 | NM_001159.3 |
| 116 | 114.8 | 95.7 | 101.8 | NM_145730.1 |
| 513.6 | 515.6 | 502.5 | 245.5 | NM_001127.2 |
| 380.7 | 339 | 240.6 | 268.9 | NM_001128.5 |
| 87.8 | 82.8 | 79.4 | 74 | NM_080545.1 |
| 224.7 | 190.4 | 201.3 | 167 | NM_003917.2 |
| 94.8 | 102 | 98.2 | 93.5 | NM_007247.3 |
| 91.4 | 88.1 | 91.1 | 94.1 | NM_007247.3 |
| 1437.6 | 1028.2 | 974.2 | 409.9 | NM_032493.2 |

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| 87.2 | 98.6 | 76.8 | 79.6 NM_005498.3 |
| 428.9 | 389.1 | 406.4 | 278.5 NM_057089.1 |
| 780.5 | 560.7 | 491.8 | 421 NM_001283.2 |
| 4701.3 | 4384.5 | 4048.2 | 3297.1 NM_003916.3 |
| 85 | 81.1 | 78.6 | 85.3 NM_178814.2 |
| 111.7 | 113.4 | 99 | 108.1 NM_130787.2 |
| 110.7 | 95.3 | 110.2 | 94.7 NM_130787.2 |
| 107.6 | 100.6 | 94.7 | 103.1 NM_014203.2 |
| 136.2 | 128.6 | 112.3 | 121.9 NM_012305.2 |
| 137.5 | 148.1 | 132.1 | 125.1 NM_001282.2 |
| 132.9 | 122.8 | 110.6 | 122.4 NM_001282.2 |
| 919.9 | 943.6 | 762.5 | 618.9 NM_004068.3 |
| 868.8 | 927.1 | 896.2 | 753.2 NM_004068.3 |
| 4468.2 | 2088.9 | 2208.1 | 1720.4 NM_004069.3 |
| 20100.6 | 12127.9 | 11993.7 | 7744.1 NM_004069.3 |
| 2650.7 | 2108.2 | 1710.9 | 1543.9 NM_003664.3 |
| 94.3 | 95.6 | 86.1 | 103.9 NM_004644.3 |
| 79.9 | 90.4 | 95.9 | 92.7 NM_001077523.1 |
| 688.2 | 610.3 | 552.6 | 368.3 NM_003938.4 |
| 755.8 | 651.4 | 502.1 | 413.1 NM_001077523.1 |
| 637.4 | 407.5 | 316.7 | 350 NM_012095.4 |
| 98.5 | 94.1 | 80.7 | 101.7 NM_207012.1 |
| 884.5 | 640.1 | 450 | 398.7 NM_207012.1 |
| 413.8 | 280.3 | 286 | 180.3 NM_006803.2 |
| 653.9 | 598 | 615.1 | 503.6 NM_001002924.1 |
| 143.3 | 147.7 | 150.4 | 123.7 NM_005829.3 |
| 1236.2 | 703.6 | 673.9 | 523.2 NM_006594.1 |
| 388.9 | 393.9 | 366.6 | 359.9 NM_007347.3 |
| 97.3 | 112.4 | 115 | 100.6 NM_004722.2 |
| 97.9 | 101.8 | 100.3 | 104.8 NM_007077.2 |
| 680.2 | 920.5 | 839.5 | 849.5 NM_181869.1 |
| 108.6 | 93.9 | 103.4 | 109.8 NM_181869.1 |
| 96 | 88.6 | 96.7 | 98.8 NM_001163.2 |
| 84.1 | 88.6 | 79.1 | 96.4 NM_005503.2 |
| 112.6 | 127.8 | 119 | 110 NM_031232.2 |
| 79.3 | 73.9 | 74.3 | 84.2 NM_031232.2 |
| 95 | 93.7 | 90.3 | 91.2 NM_031232.2 |
| 336.5 | 241.5 | 219.6 | 174.4 NM_004886.3 |
| 76.5 | 89.5 | 78.4 | 74 NM_001164.2 |
| 91.1 | 85 | 71 | 83.9 NM_145689.1 |
| 97.1 | 81 | 78.6 | 81.9 NM_001164.2 |
| 550.7 | 595 | 428.6 | 411.8 NM_019043.3 |
| 96.1 | 86.9 | 90.9 | 89 NM_173075.2 |
| 271.9 | 526.8 | 517 | 295.9 NM_006051.2 |
| 125.2 | 204.1 | 212.7 | 156.5 NM_133173.2 |
| 87 | 79.7 | 76.1 | 85 NM_000038.3 |
| 91 | 98.1 | 94.5 | 98.6 NM_005883.2 |
| 123.5 | 125.4 | 102.4 | 117.5 NM_153000.3 |
| 129.6 | 114.8 | 118.7 | 98.5 NM_001639.2 |
| 819 | 798.3 | 658 | 531 NM_001640.3 |

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|--------|--------|--------|--------|----------------|
| 3279.6 | 2467.6 | 2254.3 | 1577.8 | NM_001641.2 |
| 6394.4 | 5136 | 4115.3 | 3888.2 | NM_080649.1 |
| 572.2 | 392.7 | 344.1 | 286.9 | NM_014481.2 |
| 1765.8 | 1363 | 1142.3 | 1073 | NM_016022.1 |
| 173.6 | 172.7 | 129.2 | 168.3 | NM_001077628.1 |
| 488.4 | 343.8 | 368.1 | 256.7 | NM_031301.2 |
| 835.1 | 841 | 543.8 | 686.7 | NM_006595.2 |
| 94.3 | 87.9 | 84.5 | 81.8 | NM_017855.2 |
| 205.7 | 237.1 | 208.2 | 205.2 | NM_015957.1 |
| 117.8 | 105.6 | 103.2 | 106.4 | NM_199295.1 |
| 631.1 | 469.3 | 449.7 | 402.9 | NM_198544.2 |
| 90.3 | 92.3 | 86.1 | 89.1 | NM_017413.3 |
| 92.7 | 83.2 | 81 | 74.1 | NM_005166.3 |
| 107.2 | 88.9 | 80.8 | 95 | NM_005166.3 |
| 93.2 | 95.5 | 96.3 | 84.2 | NM_001642.1 |
| 88.6 | 86.2 | 77.9 | 86.5 | NM_000039.1 |
| 2394.4 | 1508.3 | 1443.6 | 1070.9 | NM_144772.1 |
| 119.7 | 104.5 | 112.9 | 98.8 | NM_001643.1 |
| 84.1 | 71.4 | 76.1 | 78.8 | NM_000482.3 |
| 90 | 87.8 | 81.6 | 88.9 | NM_052968.3 |
| 83.6 | 78.4 | 84 | 86.7 | NM_000384.1 |
| 255.3 | 300.4 | 292 | 231.5 | NM_018690.1 |
| 99.8 | 89.9 | 98.7 | 94.8 | NM_005889.2 |
| 85.6 | 88 | 83.4 | 92.9 | NM_006789.2 |
| 87.5 | 85 | 84.7 | 89.8 | NM_145699.2 |
| 403.1 | 281.1 | 294.4 | 216.4 | NM_004900.3 |
| 146.1 | 161.6 | 135.3 | 145.7 | NM_014508.2 |
| 94.9 | 85.8 | 85.9 | 86.1 | NM_152426.2 |
| 138.6 | 159.2 | 119.4 | 122.5 | NM_001006666.1 |
| 172.8 | 153.5 | 160.9 | 130.4 | NM_001006666.1 |
| 114.6 | 107.6 | 109.6 | 111.1 | NM_145298.4 |
| 199.4 | 199.2 | 170.9 | 159.2 | NM_021822.1 |
| 79.6 | 90.4 | 93.6 | 90.2 | NM_203454.1 |
| 346.6 | 517.9 | 544 | 352.5 | NM_001645.3 |
| 706.4 | 621.5 | 526.6 | 584.6 | NM_000483.3 |
| 95.3 | 90.1 | 86.6 | 85.5 | NM_000040.1 |
| 86.2 | 92.3 | 91.2 | 93.1 | NM_001646.1 |
| 84.8 | 83.9 | 74.2 | 88.5 | NM_001647.2 |
| 171.8 | 1366.8 | 1325.7 | 1130.7 | NM_000041.2 |
| 88.3 | 85.7 | 84.8 | 79.1 | NM_001638.2 |
| 88.1 | 79.4 | 82.9 | 80.8 | NM_000042.1 |
| 99.7 | 105.3 | 89.1 | 115 | NM_145344.1 |
| 88.8 | 82.6 | 83.7 | 81.4 | NM_145343.1 |
| 93 | 83.1 | 80 | 84.3 | NM_030882.2 |
| 94 | 115.5 | 114.9 | 99.8 | NM_145637.1 |
| 100.2 | 99.5 | 97.7 | 84.7 | NM_145637.1 |
| 81.8 | 83.1 | 81.4 | 80 | NM_014349.2 |
| 85.4 | 87.7 | 87.4 | 94.1 | NM_030644.1 |
| 89.9 | 76.5 | 78 | 85.4 | NM_145641.1 |
| 90 | 85.3 | 94.1 | 81.5 | NM_030643.3 |

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| 92.7 | 92.2 | 90.7 | 95.2 NM_030643.3 |
| 87.8 | 82.3 | 88 | 85 NM_030642.1 |
| 127.9 | 119.6 | 114 | 112.8 NM_030641.2 |
| 155.8 | 109.9 | 117.8 | 131.8 NM_030817.1 |
| 183.8 | 186.3 | 163.8 | 154.6 NM_019101.2 |
| 937.1 | 1411.2 | 1019.2 | 1151.4 NM_201414.1 |
| 103.4 | 113.4 | 107.6 | 119.4 NM_000484.2 |
| 580.3 | 1110.8 | 825.9 | 718.9 NM_201414.1 |
| 130.1 | 124.5 | 130.6 | 109.4 NM_001018159.1 |
| 2109.1 | 1421.6 | 1157.9 | 816.3 NM_003905.3 |
| 825 | 548.6 | 518.9 | 557.3 NM_001018160.1 |
| 349.5 | 527.9 | 511.3 | 376.3 NM_006380.2 |
| 170.4 | 165.6 | 163 | 175.7 NM_012096.1 |
| 155.9 | 138.3 | 132.1 | 142 NM_015032.1 |
| 346.1 | 390.2 | 354.6 | 358.7 NM_015928.1 |
| 2322.9 | 1457.3 | 1328.2 | 1133.6 NM_000485.2 |
| 1091.9 | 671 | 570.6 | 480.4 NM_001030018.1 |
| 169.3 | 138.5 | 133.7 | 114.7 NM_020979.1 |
| 638 | 502.8 | 465.5 | 337.5 NM_175069.1 |
| 82.4 | 89.9 | 84.1 | 88 NM_017692.2 |
| 244.9 | 230 | 224.1 | 192.7 NM_175073.1 |
| 95.8 | 89.1 | 85.7 | 83.8 NM_001649.2 |
| 94.7 | 89.5 | 93.4 | 89 NM_133456.1 |
| 97.8 | 94.1 | 94.4 | 95.7 NM_000385.3 |
| 96.7 | 86.1 | 81.4 | 87.9 NM_198098.1 |
| 89.7 | 84.8 | 75.8 | 83.9 NM_080429.2 |
| 95.2 | 92.5 | 99.7 | 99.2 NM_173039.1 |
| 101.5 | 94.9 | 99.9 | 97.4 NM_198998.1 |
| 97.5 | 91 | 89.6 | 83.6 NM_000486.3 |
| 81.1 | 83.2 | 80.9 | 79.6 NM_004925.3 |
| 110.5 | 95.1 | 86.7 | 89.8 NM_001650.4 |
| 86.6 | 82.6 | 76.5 | 79.5 NM_004028.3 |
| 86.7 | 87.2 | 89.1 | 74.5 NM_001651.1 |
| 126.9 | 108.3 | 113.2 | 94 NM_001652.2 |
| 88.3 | 82.6 | 82.5 | 95.8 NM_001170.1 |
| 79.4 | 74.8 | 70.3 | 75.4 NR_002823.1 |
| 89.2 | 84.5 | 83.3 | 83.2 NM_001169.2 |
| 99.8 | 99.3 | 89.2 | 89.4 NM_020980.2 |
| 95.2 | 103 | 98.9 | 101.2 NM_014691.2 |
| 141.2 | 167.3 | 166.9 | 163.6 NM_000044.2 |
| 94.2 | 103.8 | 88.9 | 91.9 NM_000044.2 |
| 86.3 | 94.8 | 82.9 | 86.9 NM_001011645.1 |
| 588.5 | 491.9 | 552 | 229 NM_001654.1 |
| 108.1 | 86.5 | 95.7 | 95.1 NM_015193.3 |
| 2170.5 | 1188.6 | 933.7 | 983.2 NM_001655.3 |
| 603 | 444.9 | 459.5 | 304.3 NM_003491.2 |
| 98.9 | 97.2 | 86 | 97.5 NM_001657.2 |
| 390.6 | 263 | 256.1 | 210.8 NM_001024228.1 |
| 4745.6 | 3545.5 | 3250.1 | 1840.2 NM_001658.3 |
| 92.3 | 94.9 | 85.6 | 87.1 NM_001024226.1 |

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| 403.3 | 279.3 | 249.2 | 224.5 | NM_001659.1 |
| 390.7 | 402.5 | 259.4 | 242.2 | NM_001660.2 |
| 2534.7 | 2487.7 | 1714.9 | 1777.4 | NM_001660.2 |
| 801.1 | 868.2 | 857.7 | 725.1 | NM_001662.2 |
| 87.2 | 83.9 | 75.2 | 87.8 | NM_001663.2 |
| 99.7 | 82.3 | 89.5 | 92 | NM_175609.1 |
| 260.4 | 285.6 | 307.4 | 177.1 | NM_175609.1 |
| 94.8 | 80.8 | 83.8 | 81.9 | NM_014570.3 |
| 159 | 116.2 | 124.5 | 140.8 | NM_006421.3 |
| 163.2 | 135 | 129.4 | 120.7 | NM_006420.1 |
| 332.2 | 240.8 | 226.3 | 228 | NM_001025593.1 |
| 118.2 | 110.6 | 95.6 | 103.9 | NM_001025595.1 |
| 85 | 85.8 | 75.2 | 87.8 | NM_012402.2 |
| 113.2 | 123.9 | 100.6 | 102 | NM_003224.2 |
| 80.6 | 83.5 | 85.2 | 86.2 | NM_000045.2 |
| 111.2 | 93.6 | 95 | 92.9 | NM_001172.3 |
| 91.7 | 91.6 | 92.3 | 86.4 | NM_175861.1 |
| 89.6 | 88.2 | 82.7 | 86.4 | NM_001012659.1 |
| 94.9 | 84.9 | 78.6 | 92.1 | NR_002222.1 |
| 1452.6 | 807.7 | 771.9 | 492.1 | NM_004308.2 |
| 133.6 | 120.1 | 112.8 | 120.9 | NM_024605.3 |
| 170.2 | 164.3 | 159 | 150.3 | NM_199357.1 |
| 180.2 | 155.2 | 155.6 | 158.6 | NM_014783.2 |
| 105.8 | 106.4 | 103.4 | 105.7 | NM_199357.1 |
| 93.5 | 92.2 | 96.2 | 99.3 | NM_018287.4 |
| 1833.3 | 1795.2 | 1704.7 | 1575.5 | NM_018460.2 |
| 1564.4 | 1210.1 | 1441.6 | 672.4 | NM_018054.4 |
| 234.6 | 204.6 | 195.9 | 190.7 | NM_018054.4 |
| 95.5 | 92 | 88.3 | 98 | NM_001006634.1 |
| 104.6 | 98.7 | 87.4 | 100.8 | NM_033515.2 |
| 638.7 | 539.7 | 396.8 | 369.8 | NM_032900.4 |
| 100.6 | 97 | 78.5 | 97.5 | NM_020809.2 |
| 270.7 | 268.4 | 225.9 | 213.2 | NM_020824.2 |
| 86.4 | 91.8 | 90.8 | 94 | NM_021226.2 |
| 87.6 | 90 | 87.9 | 90.6 | NM_031305.1 |
| 89.3 | 87.8 | 94.4 | 97.7 | NM_001042669.1 |
| 96.5 | 101.3 | 95 | 98.9 | NM_001025616.1 |
| 113.7 | 121.2 | 122.4 | 108 | NM_001025616.1 |
| 96.1 | 88.4 | 92 | 96.3 | NM_001007231.1 |
| 207 | 311.4 | 250.8 | 227.3 | NM_014882.2 |
| 89.6 | 92.7 | 77.3 | 83.2 | NM_014882.2 |
| 112.3 | 109.4 | 121.5 | 106.6 | NM_015071.2 |
| 92.2 | 94.7 | 93.7 | 92.5 | NM_199282.1 |
| 93 | 74.2 | 70.1 | 80.1 | NM_030672.2 |
| 87.9 | 89.7 | 86 | 99.8 | NM_001010000.1 |
| 86.1 | 85.2 | 83.1 | 86.3 | NM_030672.2 |
| 93.3 | 87.6 | 87.7 | 92.8 | NM_004815.2 |
| 748.6 | 419.7 | 398 | 333.6 | NM_181720.2 |
| 1089.6 | 820.9 | 788.8 | 498.8 | NM_181720.2 |
| 319.4 | 241 | 247.4 | 205.3 | NM_001025598.1 |

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| 1088.7 | 1033.3 | 1067.5 | 624.2 NM_001666.2 |
| 92.8 | 98.8 | 97.7 | 73.7 NM_001173.2 |
| 99.6 | 93.4 | 101.7 | 83.5 NM_013422.2 |
| 82.1 | 85.3 | 75.6 | 84 NM_013423.1 |
| 94.4 | 81.7 | 84.2 | 80.6 NM_001174.2 |
| 95.9 | 92.6 | 88.3 | 89 NM_006125.1 |
| 86 | 85.4 | 79.3 | 89.9 NM_181335.2 |
| 82.3 | 86.6 | 72.1 | 83.8 NM_001017526.1 |
| 86.8 | 73.2 | 79.5 | 80.4 NM_001017526.1 |
| 1021.2 | 1372.3 | 1409.8 | 1092 NM_032496.1 |
| 245.1 | 337.8 | 364.5 | 361.6 NM_001080156.1 |
| 1044.8 | 723.4 | 651.9 | 629.3 NM_004309.3 |
| 17960 | 15568.3 | 15052.7 | 11472 NM_001175.4 |
| 89.3 | 90 | 81.2 | 84.3 NM_001176.2 |
| 183.8 | 222.1 | 177.1 | 174.2 NM_199002.1 |
| 110.6 | 102.3 | 95.6 | 88.6 NM_199002.1 |
| 108.3 | 116.8 | 117 | 119 NM_199002.1 |
| 629.8 | 375.1 | 357 | 274.9 NM_014629.2 |
| 88.1 | 91.7 | 98.1 | 96.5 NM_001011722.2 |
| 89.4 | 100.3 | 94.2 | 80.4 NM_018125.3 |
| 94.6 | 87.2 | 90.3 | 86.7 NM_001011722.2 |
| 84.5 | 90.3 | 89 | 97.6 NM_198236.1 |
| 120.9 | 113 | 121.9 | 117.3 NM_014784.2 |
| 123.7 | 140.5 | 127.7 | 128.4 NM_014784.2 |
| 113.8 | 90 | 88.4 | 87.6 NM_015313.1 |
| 92.2 | 80.7 | 85.1 | 80 NM_173728.2 |
| 94.6 | 78.6 | 78.5 | 80.5 NM_014448.2 |
| 135.2 | 152.2 | 140.3 | 140.6 NM_014786.2 |
| 1519.3 | 1467.2 | 1599.6 | 984.7 NM_015318.2 |
| 340.4 | 268.5 | 255.7 | 159.5 NM_153213.2 |
| 1795.2 | 1946.1 | 1660.9 | 1130.6 NM_004723.2 |
| 467.5 | 410.6 | 347.2 | 354.1 NM_019555.1 |
| 97.4 | 88 | 80.3 | 83.6 NM_032995.1 |
| 76.9 | 95.3 | 80.3 | 85.8 NM_032995.1 |
| 108.5 | 116 | 101.6 | 102.8 NM_001002861.1 |
| 3346 | 2786.7 | 2824.8 | 1955.5 NM_004840.2 |
| 966.3 | 923.4 | 967.7 | 722.4 NM_003899.2 |
| 90.2 | 79.2 | 79.2 | 81.6 NM_145735.1 |
| 105.2 | 94.3 | 98.1 | 102.9 NM_003899.2 |
| 94.5 | 101.6 | 101.6 | 104.6 NM_015185.1 |
| 90.7 | 88.2 | 85.4 | 98.6 NM_006015.3 |
| 1182.9 | 1461.8 | 1615 | 830.9 NM_139135.1 |
| 94.8 | 107 | 90.6 | 104.5 NM_175863.2 |
| 100.6 | 102.2 | 102.4 | 98.2 NM_020732.2 |
| 191.1 | 149.1 | 175.4 | 158.4 NM_152641.2 |
| 1182 | 1313.9 | 1144.6 | 1171.9 NM_005224.1 |
| 89.2 | 94.9 | 81.2 | 90.6 NM_001017363.1 |
| 136.8 | 152 | 132.5 | 150.7 NM_023000.2 |
| 123 | 136.9 | 119.3 | 131.6 NM_002892.2 |
| 220.2 | 215.7 | 193.2 | 223.1 NM_002892.2 |

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| 134 | 131.4 | 130.8 | 132.7 NM_016374.4 |
| 365.8 | 459.2 | 432.2 | 443.3 NM_016374.5 |
| 186.7 | 187.7 | 213 | 178.3 NM_016374.5 |
| 93.6 | 93 | 94.6 | 92.3 NM_212481.1 |
| 94.4 | 91.8 | 94.5 | 102.9 NM_212481.1 |
| 114.3 | 111.2 | 107.4 | 108.2 NM_212481.1 |
| 110.5 | 138.9 | 121.7 | 123.2 NM_032199.1 |
| 254.7 | 302.9 | 303 | 249.6 NM_005744.2 |
| 1173.6 | 1264.6 | 1339.4 | 697.8 NM_006321.1 |
| 476.2 | 411.6 | 402.7 | 340.6 NM_001177.3 |
| 88.7 | 88.5 | 89.9 | 87 NM_173664.3 |
| 99.7 | 93.7 | 91.3 | 95.7 NM_138450.3 |
| 91 | 85.6 | 91.7 | 93.3 NM_001012990.1 |
| 118.5 | 102.4 | 92 | 106.7 NM_144996.2 |
| 105 | 95.6 | 81.3 | 88.8 NM_182896.1 |
| 79.6 | 87.7 | 78.8 | 91.6 NM_025047.1 |
| 104 | 100.9 | 97.4 | 100 NM_019087.1 |
| 736.2 | 780.9 | 1092 | 837.5 NM_001040025.1 |
| 2084.3 | 1230 | 1396.7 | 640.2 NM_001667.1 |
| 1299.9 | 1059.5 | 925.6 | 668.4 NM_012106.3 |
| 126.3 | 108.5 | 103.2 | 94.4 NM_004311.2 |
| 157.6 | 118.1 | 105.4 | 111.2 NM_212460.1 |
| 229.3 | 169.5 | 146 | 163.7 NM_005738.2 |
| 156.3 | 125.8 | 113.6 | 129.3 NM_005738.2 |
| 79.7 | 87.3 | 78 | 85.7 NM_001037164.1 |
| 88.2 | 89.7 | 89.8 | 90.2 NM_005737.3 |
| 102.9 | 97.1 | 98.4 | 95.7 NM_001661.2 |
| 194.9 | 171.5 | 166.8 | 125.1 NM_012097.2 |
| 3744.1 | 3502.7 | 3726.8 | 2680.2 NM_012097.2 |
| 1016.8 | 896.7 | 794.2 | 673.7 NM_001037174.1 |
| 125.4 | 106.2 | 96.2 | 95.6 NM_178815.3 |
| 71 | 73.6 | 76.8 | 87.5 NM_032146.3 |
| 94.4 | 86.9 | 80.1 | 80.6 NM_032146.3 |
| 90.1 | 92.1 | 89.6 | 87.3 NM_177976.1 |
| 127.6 | 98.4 | 93.3 | 99.3 NM_015161.1 |
| 343.9 | 236.2 | 215.9 | 242.7 NM_022374.1 |
| 188.6 | 206.3 | 206 | 174.3 NM_018694.2 |
| 118.4 | 109.7 | 100.5 | 105.8 NM_001002252.1 |
| 276.6 | 314.2 | 303.7 | 256.4 NM_001002251.1 |
| 659.9 | 530.6 | 483.6 | 517.6 NM_006407.3 |
| 86 | 84.4 | 86.5 | 86.8 NM_152522.2 |
| 84.1 | 100.6 | 88 | 91.3 NM_138795.2 |
| 1113.7 | 1273.4 | 1027.1 | 1111.1 NM_018184.2 |
| 96.9 | 94.5 | 83.4 | 85.3 NM_206919.1 |
| 455.1 | 297.3 | 292.5 | 227 NM_018120.3 |
| 1559.1 | 1274.8 | 1176.8 | 1104.5 NM_031905.2 |
| 79.8 | 88.1 | 85.3 | 84.1 NM_032131.3 |
| 99.1 | 109.8 | 110.5 | 95.4 NM_018076.2 |
| 117 | 99.1 | 94.3 | 103.9 NM_024742.1 |
| 189.8 | 160 | 145.6 | 137.5 NM_033415.2 |

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| 322.7 | 317.3 | 261.5 | 266.7 NM_024585.2 |
| 110.3 | 107.6 | 102.3 | 94.1 NM_015396.3 |
| 340 | 278.6 | 238 | 196.4 NM_014154.2 |
| 102.7 | 96.8 | 102 | 96.2 NM_213654.1 |
| 96.8 | 96.2 | 80.2 | 86.2 NM_014154.2 |
| 89.8 | 87.6 | 89.5 | 85.5 NM_025139.2 |
| 138.8 | 142.4 | 150 | 146.2 NM_016608.1 |
| 81.9 | 80.2 | 93.3 | 86.5 NM_177949.1 |
| 264.7 | 276.6 | 217.6 | 243.1 NM_177947.2 |
| 87.5 | 79.1 | 84.3 | 83 NM_177948.2 |
| 209.9 | 156.1 | 131.2 | 178.3 NM_022838.2 |
| 377 | 329.1 | 253.7 | 256.1 NM_019007.3 |
| 388.7 | 348 | 257.9 | 251.6 NM_019007.3 |
| 7937.1 | 5858 | 4691.3 | 3277.1 NM_006010.2 |
| 104.1 | 100 | 90.2 | 102.9 NM_001029954.1 |
| 112 | 106.4 | 102.9 | 110.6 NM_178426.1 |
| 88.6 | 95.7 | 92.4 | 89.7 NM_001668.2 |
| 89.4 | 90.7 | 90.1 | 85.6 NM_014862.3 |
| 91.3 | 96.8 | 92.2 | 93.1 NM_001030273.1 |
| 331.2 | 312.6 | 270.1 | 297 NM_001030272.1 |
| 84.9 | 83 | 74.7 | 79.4 NM_020183.3 |
| 106.5 | 100.7 | 91.8 | 96 NM_181773.2 |
| 1893.8 | 1458.4 | 1322.6 | 951.8 NM_006409.2 |
| 1309.3 | 1438.1 | 1252.1 | 909.6 NM_005720.2 |
| 91.9 | 86.6 | 80.1 | 93.7 NM_152862.1 |
| 9396.2 | 7925.9 | 7305.9 | 7422.2 NM_005731.2 |
| 88 | 100.5 | 93.8 | 95.3 NM_005731.2 |
| 9217.3 | 8815.8 | 9354 | 7710.1 NM_005719.2 |
| 98.9 | 108.4 | 93.7 | 95.3 NM_005718.3 |
| 3944 | 2478.4 | 2203.6 | 1435 NM_001024960.1 |
| 1481.1 | 766.6 | 750.4 | 492.6 NM_001024959.1 |
| 3266 | 2130.8 | 1893.5 | 2189.2 NM_005717.2 |
| 1243.6 | 726.7 | 666.9 | 527.2 NM_030978.1 |
| 101.8 | 101.5 | 90.7 | 92.8 NM_032487.2 |
| 92 | 81.3 | 84.9 | 84.7 NM_080431.3 |
| 265.2 | 284.1 | 317.3 | 222.2 NM_006628.4 |
| 92 | 82.3 | 78.8 | 89 NM_016300.4 |
| 86.5 | 85.5 | 83.3 | 81.2 NM_198399.1 |
| 78 | 74 | 80.7 | 81.6 NM_001025068.1 |
| 91.4 | 92.4 | 90.9 | 90.9 NM_001025068.1 |
| 94.7 | 81 | 83.5 | 90.7 NM_004312.1 |
| 196.9 | 174.8 | 152.3 | 173.6 NM_020251.2 |
| 183.9 | 162.9 | 159 | 154.1 NM_004041.3 |
| 93.7 | 101.7 | 98.3 | 91.4 NM_004313.3 |
| 110.5 | 114.6 | 109.2 | 109 NM_199004.1 |
| 120.4 | 135.4 | 154.8 | 143.6 NM_152285.2 |
| 93.9 | 87.3 | 79.7 | 83.5 NM_001025604.1 |
| 92.4 | 87 | 92.8 | 89.2 NM_015683.1 |
| 245.1 | 182.7 | 176.2 | 183.7 NM_015683.1 |
| 209.5 | 274.9 | 227.6 | 207.8 NM_020801.1 |

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| 134.8 | 172.7 | 159.6 | 181.8 | NM_183376.1 |
| 82.7 | 87.3 | 81.8 | 85.6 | NM_001080523.1 |
| 4219.2 | 3381.3 | 3371.4 | 1936.9 | NM_015908.4 |
| 86.9 | 80.9 | 77 | 80.2 | NM_182800.2 |
| 125.6 | 128.7 | 146.8 | 94.2 | NM_000487.3 |
| 88.6 | 86 | 85.3 | 83.3 | NM_198709.1 |
| 335.9 | 354.3 | 351.7 | 275 | NM_000046.2 |
| 139.7 | 153.8 | 136.2 | 130 | NM_198709.1 |
| 127.2 | 184.6 | 175.8 | 165.4 | NM_009589.2 |
| 118.1 | 108.4 | 102.1 | 95.1 | NM_009589.2 |
| 707.2 | 972.5 | 719.2 | 733 | NM_001669.2 |
| 80.5 | 79.1 | 82.2 | 87.6 | NM_000047.1 |
| 89.7 | 86.4 | 80.5 | 90.5 | NM_004042.3 |
| 98.7 | 115.2 | 104.9 | 102.5 | NM_014960.2 |
| 89 | 91 | 89.6 | 98.4 | NM_001011719.1 |
| 88.5 | 84.6 | 83.2 | 95.3 | NM_001012301.1 |
| 96.7 | 90.8 | 94.4 | 100.5 | NM_024590.2 |
| 147 | 165.7 | 138.9 | 139.5 | NM_198150.1 |
| 102 | 100.3 | 90.9 | 93.2 | NM_004314.1 |
| 93.5 | 102.9 | 94.5 | 96.7 | NM_001179.2 |
| 101.4 | 100 | 100.1 | 102.8 | NM_021071.2 |
| 83.4 | 85.6 | 81.8 | 89.2 | NM_053017.2 |
| 89.4 | 84.4 | 88.1 | 92.4 | NM_053017.3 |
| 78.8 | 74.4 | 78.3 | 77.9 | NM_057091.1 |
| 84 | 80.6 | 86.8 | 87 | NM_003976.2 |
| 88.6 | 93.8 | 81.3 | 92.9 | NM_057160.1 |
| 104.4 | 94.2 | 92.9 | 93.7 | NM_003976.2 |
| 124.6 | 114.4 | 121.6 | 103.6 | NM_001040458.1 |
| 71.9 | 90.7 | 76.4 | 76.9 | NM_016442.2 |
| 870.1 | 680.4 | 650.2 | 512.8 | NM_022786.1 |
| 88 | 79.7 | 83 | 89.3 | NM_001670.1 |
| 95.3 | 97.8 | 88.3 | 87.3 | NM_001030078.1 |
| 107.8 | 114.3 | 104.2 | 102.6 | NM_139058.1 |
| 109.5 | 98.8 | 94 | 90 | NM_020682.2 |
| 165.6 | 177.9 | 169.4 | 147.4 | NM_177924.1 |
| 92.5 | 101.4 | 92.8 | 94.6 | NM_004315.2 |
| 89.1 | 76.3 | 73.9 | 99 | NM_019893.1 |
| 90.5 | 90.8 | 87.5 | 91.4 | NM_133492.1 |
| 109.6 | 94 | 101.9 | 106.2 | NM_001010887.2 |
| 524.4 | 415.1 | 344.4 | 359.9 | NM_014435.2 |
| 609 | 447.5 | 439.7 | 351.6 | NM_014435.2 |
| 208.4 | 176.8 | 169.6 | 182.7 | NM_014435.2 |
| 95.9 | 98.3 | 84.6 | 95.5 | NM_024769.2 |
| 244.4 | 219.1 | 210.5 | 144.4 | NM_016114.3 |
| 95.8 | 97.7 | 84.7 | 90.6 | NM_080871.2 |
| 81 | 77.5 | 78.2 | 82.9 | NM_001012428.1 |
| 87.7 | 81.7 | 82.2 | 87 | NM_001012428.1 |
| 110.6 | 109.1 | 103.5 | 89.9 | NM_080873.1 |
| 122.1 | 105.8 | 99.4 | 105.7 | NM_130388.2 |
| 318.2 | 215.3 | 199 | 167.9 | NM_024701.2 |

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| 84.3 | 88.1 | 89 | 78.2 NM_130387.4 |
| 89.4 | 90.5 | 92.8 | 93.3 NM_080928.2 |
| 85.5 | 89 | 88 | 86.3 NM_080863.4 |
| 91.4 | 95.1 | 89.7 | 80.2 NM_080868.1 |
| 95.9 | 101.4 | 96.1 | 95.1 NM_016150.3 |
| 175.6 | 168 | 172.7 | 159.4 NM_145863.1 |
| 219.1 | 170.4 | 170.5 | 157.9 NM_016115.3 |
| 92.1 | 81 | 78.1 | 81.7 NM_145872.1 |
| 86.4 | 90.5 | 86.4 | 92.6 NM_145872.1 |
| 88.4 | 99 | 93 | 87.3 NM_016116.1 |
| 88.7 | 74.8 | 85.5 | 93.7 NM_080874.2 |
| 85.3 | 79.6 | 70.2 | 85.4 NM_017873.2 |
| 142.2 | 115.4 | 105.8 | 119 NM_177999.1 |
| 155.4 | 117.4 | 116.4 | 103.4 NM_177999.1 |
| 94.4 | 85.5 | 86.5 | 98.9 NM_024708.2 |
| 99.1 | 107.9 | 87.5 | 95.1 NM_198243.1 |
| 126.4 | 122.1 | 103.8 | 99.3 NM_024708.2 |
| 171.1 | 166.4 | 168.6 | 155 NM_024095.3 |
| 86.6 | 84.5 | 85.8 | 87.8 NM_024087.1 |
| 88.5 | 77 | 76 | 85.6 NM_024087.1 |
| 849.2 | 524.6 | 456.2 | 338 NM_015947.2 |
| 1653.2 | 1822 | 1866.4 | 748.5 NM_032204.3 |
| 102.6 | 90.6 | 91.5 | 91.4 NM_022091.3 |
| 135.2 | 153.6 | 154.3 | 139.7 NM_006828.2 |
| 94.8 | 86.1 | 93.3 | 98.1 NM_022091.3 |
| 127.4 | 132.3 | 137.5 | 103.5 NM_014014.2 |
| 118.7 | 124.3 | 119.4 | 126.9 NM_015251.2 |
| 99.6 | 90.5 | 83.6 | 108.1 NM_004316.2 |
| 210.5 | 209.2 | 207.5 | 157.8 NM_005170.2 |
| 96.7 | 82.3 | 79.1 | 77.9 NM_020646.1 |
| 80.3 | 81.2 | 88 | 80.1 NM_203436.1 |
| 1480.3 | 911.8 | 696 | 878.3 NM_014034.1 |
| 379.5 | 286.3 | 279.7 | 161.1 NM_018154.2 |
| 103.2 | 86.1 | 98 | 103.3 NM_001671.2 |
| 90.2 | 82.2 | 78.1 | 84.6 NM_080912.1 |
| 214 | 266.5 | 248.7 | 258.1 NM_080914.1 |
| 143.5 | 157.3 | 146.3 | 129.9 NM_080914.1 |
| 83.3 | 84.6 | 91 | 101.6 NM_018489.1 |
| 2209.1 | 1437.4 | 1262 | 1036 NM_004674.1 |
| 79 | 90.5 | 83.7 | 87.2 NM_001672.2 |
| 91.6 | 80.6 | 88.9 | 91.2 NM_000048.3 |
| 99.2 | 106.1 | 118.8 | 102.3 NM_001024943.1 |
| 155 | 142.9 | 159.7 | 131.4 NM_001024943.1 |
| 91.7 | 90.7 | 93.6 | 90.1 NM_004043.1 |
| 156.6 | 193.7 | 189.2 | 175 NM_004192.1 |
| 90.5 | 89.6 | 88.3 | 79.2 NM_004317.2 |
| 1820.1 | 828.7 | 841.9 | 512.9 NM_133436.1 |
| 178 | 116.5 | 95.5 | 107.9 NM_133436.1 |
| 1782.3 | 1479.2 | 1075.2 | 1103.3 NM_019048.1 |
| 76.3 | 87 | 84.3 | 89.2 NM_000049.2 |

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| 113.6 | 114.2 | 103.4 | 114.3 NM_032468.2 |
| 118.7 | 109.8 | 92.7 | 103.6 NM_020164.2 |
| 91.6 | 89.1 | 89.3 | 88 NM_004318.2 |
| 303.7 | 208.5 | 174.2 | 164.9 NM_181718.3 |
| 110.6 | 93.9 | 95 | 81.8 NM_181718.3 |
| 133 | 125.2 | 115.8 | 114.3 NM_020437.3 |
| 1033.7 | 644.6 | 701.7 | 621.3 NM_018136.2 |
| 95.5 | 94.6 | 95 | 99.8 NM_017680.3 |
| 111.3 | 114.7 | 104.7 | 103.8 NM_024083.2 |
| 1774.8 | 1650.8 | 1981.8 | 794.7 NM_024083.2 |
| 103.4 | 95.3 | 116.8 | 114.7 NM_025080.2 |
| 1146.2 | 676.5 | 600 | 730 NM_000050.3 |
| 309 | 269.1 | 229 | 297.1 NM_054012.3 |
| 183.1 | 166 | 162 | 131.1 NM_014065.2 |
| 104.4 | 102.6 | 99.8 | 93.2 NM_001002036.2 |
| 99.6 | 87.3 | 87.9 | 89.2 NM_004319.1 |
| 90.6 | 92.4 | 95.2 | 81.5 NM_207108.1 |
| 90.1 | 90.9 | 86.6 | 87.8 NM_014010.3 |
| 99.3 | 91.9 | 87.5 | 103.9 NM_198188.1 |
| 94.3 | 85.5 | 92.8 | 92.4 NM_198187.2 |
| 261.8 | 324.4 | 285.7 | 221.7 NM_015338.3 |
| 568.9 | 1040.8 | 935.7 | 581.3 NM_018263.3 |
| 84.1 | 76.6 | 73.6 | 81.5 NM_130768.1 |
| 128.7 | 119.5 | 98.5 | 109.4 NM_032810.2 |
| 1401 | 1026.4 | 800.3 | 786.7 NM_014109.2 |
| 295.7 | 271.4 | 224.4 | 211 NM_018188.2 |
| 138.4 | 143.8 | 133.3 | 137.6 NM_031921.4 |
| 96.4 | 96.3 | 96.7 | 102.5 NM_001039211.1 |
| 144.2 | 133.8 | 146.1 | 125.6 NM_024320.2 |
| 87 | 101.9 | 120 | 94.1 NM_006885.2 |
| 89.7 | 88.9 | 92.3 | 93.9 NM_033064.2 |
| 99.4 | 82.1 | 85.8 | 90.1 NM_001001976.1 |
| 86.4 | 86 | 77.3 | 85.3 NM_007041.2 |
| 95.7 | 93.1 | 87.4 | 84.5 NM_007041.2 |
| 102.3 | 98.4 | 103 | 103.9 NM_005171.2 |
| 224.7 | 229.2 | 210.7 | 187.6 NM_001880.2 |
| 147.9 | 119.5 | 100.9 | 118.1 NM_001040619.1 |
| 99.1 | 86.7 | 92 | 94.5 NM_001030287.1 |
| 93.4 | 85.6 | 85.2 | 82.6 NM_004024.3 |
| 6623.3 | 5449.4 | 6156.8 | 4470.6 NM_001675.2 |
| 128.6 | 136.8 | 128.6 | 109.3 NM_001675.2 |
| 384.9 | 220.1 | 258.3 | 193.7 NM_182810.1 |
| 874.4 | 1078.2 | 954 | 575.8 NM_012068.2 |
| 790.2 | 648.1 | 597.7 | 533.8 NM_007348.2 |
| 102.7 | 88.7 | 98 | 88.2 NM_006856.1 |
| 104.6 | 81.2 | 98.2 | 93.6 NM_018179.3 |
| 337.6 | 280.8 | 271.5 | 221.6 NM_024997.2 |
| 206.3 | 215.2 | 206.7 | 223.4 NM_031482.3 |
| 1331.6 | 1145.1 | 1167.8 | 908.6 NM_004707.2 |
| 411.3 | 285.8 | 274.6 | 229.8 NM_030803.5 |

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| 474.9 | 311.5 | 336.5 | 257.8 NM_017974.3 |
| 208.1 | 230.5 | 232.2 | 221.4 NM_033388.1 |
| 123 | 120.2 | 106.4 | 105 NM_022488.3 |
| 221.6 | 236.4 | 225.1 | 157.4 NM_178270.1 |
| 84.3 | 84.6 | 73.8 | 83.4 NM_178271.1 |
| 92.3 | 84.6 | 85.4 | 93.5 NM_013325.4 |
| 771.8 | 521.9 | 500.9 | 377.7 NM_178326.2 |
| 100.2 | 87.2 | 90.8 | 88.6 NM_032852.2 |
| 92.6 | 82.1 | 80.9 | 97 NM_032885.4 |
| 222.7 | 268.6 | 221.6 | 204.6 NM_004849.1 |
| 484.6 | 582.8 | 604 | 374.3 NM_006395.1 |
| 80.7 | 84.7 | 78.5 | 89.9 NM_001077198.1 |
| 349.9 | 403.5 | 315.8 | 325.7 NM_001077198.1 |
| 257.4 | 274.2 | 206.1 | 236.2 NM_024085.2 |
| 88.1 | 89.2 | 96.3 | 91.6 NM_173681.3 |
| 152.5 | 242.6 | 223.4 | 229.8 NM_025092.1 |
| 3942.5 | 2127.7 | 1847.3 | 1329.1 NM_004044.4 |
| 91.4 | 101.3 | 87.6 | 88.1 NM_000051.3 |
| 408.2 | 597.1 | 737.6 | 528.7 NM_000051.3 |
| 79.6 | 76.3 | 72.4 | 79.5 NM_138292.3 |
| 100 | 95.6 | 92.3 | 104.1 NM_001940.3 |
| 154.3 | 140 | 125.7 | 126 NM_001007026.1 |
| 91.9 | 84.5 | 91.8 | 83.9 NM_001007026.1 |
| 89.4 | 88.3 | 88 | 88.3 NM_005172.1 |
| 89.9 | 92 | 90 | 77 NM_145178.2 |
| 88.5 | 85.3 | 79.7 | 83.7 NM_032827.3 |
| 2367.7 | 1565.3 | 1532.8 | 1021.2 NM_004045.3 |
| 89.8 | 96.6 | 78.1 | 79.6 NM_024490.2 |
| 105.5 | 116.6 | 114.6 | 110.4 NM_020453.2 |
| 91 | 87.4 | 89.2 | 84 NM_015205.1 |
| 79.2 | 84.6 | 76 | 71.4 NM_032189.2 |
| 191 | 195.8 | 187.3 | 216.3 NM_014616.1 |
| 132.7 | 133.6 | 112.8 | 112.5 NM_173694.3 |
| 210.5 | 227.2 | 222.9 | 206.6 NM_173694.3 |
| 92.2 | 94.8 | 98.1 | 84.5 NM_001676.3 |
| 435.3 | 363.4 | 360 | 231.5 NM_020410.1 |
| 130.7 | 135.8 | 118.9 | 116.5 NM_022089.1 |
| 77.2 | 80 | 72.8 | 76.9 NM_032279.2 |
| 89.5 | 77 | 78.9 | 85.4 NM_198505.2 |
| 1951.9 | 1495.7 | 1253.4 | 971.4 NM_000701.6 |
| 2432.2 | 2168.9 | 1706.6 | 1656.1 NM_001001586.1 |
| 616.1 | 281.6 | 301.6 | 237.2 NM_000701.6 |
| 84.7 | 79.8 | 76.3 | 94.8 NM_000702.2 |
| 105.9 | 108.9 | 101.1 | 85.3 NM_152296.3 |
| 91.5 | 93.3 | 86.6 | 86.3 NM_144699.2 |
| 93.3 | 86.1 | 84.2 | 88.9 NM_001001734.1 |
| 181.4 | 255 | 207 | 254.1 NM_001001787.1 |
| 331.9 | 670.8 | 467.2 | 582.8 NM_001001787.1 |
| 204.4 | 349.5 | 233.8 | 243.2 NM_001677.3 |
| 171.3 | 245.1 | 222.5 | 153.6 NM_001678.3 |

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| 1638.5 | 1126.9 | 982.6 | 1194.4 XM_945505.1 |
| 366.9 | 291.1 | 259.6 | 238 NM_001679.2 |
| 1080 | 751.9 | 466.2 | 708.7 NM_001679.2 |
| 99.7 | 97.1 | 92.2 | 87.3 NM_012069.2 |
| 93.4 | 81.8 | 90.1 | 85.3 XM_937782.1 |
| 679.4 | 812.2 | 634.7 | 493.4 NM_001681.2 |
| 1276.2 | 1322.8 | 944.6 | 1149.9 NM_001681.2 |
| 626.7 | 702.7 | 499.6 | 372.8 NM_170665.2 |
| 102.5 | 107.6 | 106.8 | 86.1 NM_174958.1 |
| 95.8 | 110.1 | 112 | 111.8 NM_174955.1 |
| 101.5 | 103.5 | 107.1 | 108.2 NM_001001323.1 |
| 82 | 83.7 | 81.2 | 85.9 NM_001001323.1 |
| 88.1 | 82.5 | 85.6 | 85.7 NM_001683.2 |
| 89.4 | 84.2 | 83.3 | 79.9 NM_001001331.1 |
| 85.5 | 82.6 | 85.1 | 82.6 NM_001683.2 |
| 192.7 | 199.5 | 201 | 164.6 NM_021949.2 |
| 90.4 | 108 | 86.4 | 88.4 NM_021949.2 |
| 94.8 | 99 | 93.1 | 99.2 NM_001001344.1 |
| 95 | 122.4 | 138.7 | 114.2 NM_001001396.1 |
| 405 | 836.8 | 707.7 | 639.2 NM_001684.3 |
| 186.6 | 196.3 | 169.4 | 176.4 NM_014382.2 |
| 101.2 | 116.4 | 99.7 | 99 NM_001001487.1 |
| 345 | 359.4 | 272.3 | 290.5 NM_001001486.1 |
| 89.3 | 85.8 | 76.6 | 91.8 NM_000704.2 |
| 93.4 | 92.4 | 85.2 | 94 NM_000705.2 |
| 86.5 | 87.1 | 91 | 90.6 NM_000705.2 |
| 18649.4 | 13361.2 | 10935 | 10059 NM_004046.4 |
| 15731.1 | 12508.8 | 12552.1 | 8930.1 NM_001001937.1 |
| 17414 | 14593 | 13195.1 | 8911.1 NM_001686.3 |
| 2252.2 | 1496.8 | 1218 | 1628.4 NM_005174.2 |
| 474.6 | 337.1 | 302.3 | 252.8 NM_001687.4 |
| 4415.5 | 2272.7 | 1960.5 | 2109.1 NM_001001975.1 |
| 1773.7 | 804.9 | 988.6 | 647.4 NM_001688.3 |
| 9570.7 | 5445.1 | 4747.3 | 4112.7 NM_001688.3 |
| 162.7 | 148.9 | 152.1 | 108.9 NM_005175.2 |
| 4253.7 | 3635.8 | 3336.9 | 2220.9 NM_001002027.1 |
| 87.8 | 92.4 | 81.1 | 89.1 NM_001002031.1 |
| 155.5 | 109.4 | 100.6 | 107 NM_005176.4 |
| 5497.3 | 2552.4 | 2390.6 | 1928.8 NM_005176.4 |
| 228.2 | 212 | 190.2 | 180.6 NM_001002256.1 |
| 6513.3 | 5855.2 | 4842.4 | 4784.8 NM_001003785.1 |
| 8446.8 | 8144.8 | 5858.8 | 6823.5 NM_006356.2 |
| 11051.9 | 8532.7 | 8201.6 | 5778.8 NM_007100.2 |
| 906.8 | 740.9 | 750 | 526 NM_007100.2 |
| 579.7 | 636.4 | 502.5 | 452.9 NM_001003703.1 |
| 9666.1 | 9958 | 7775 | 6000 NM_001685.4 |
| 10913.2 | 10231.8 | 8400.4 | 6890.2 NM_001003696.1 |
| 4183.3 | 3054.5 | 3234.2 | 1956.5 NM_001003714.1 |
| 5929.3 | 4642.8 | 4593.9 | 2851.5 NM_004889.2 |
| 295.2 | 231.2 | 181.8 | 185.1 NM_006476.4 |

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| 7183.8 | 6417.6 | 5688.3 | 5486.6 | NM_001697.2 |
| 183.6 | 202.4 | 171.4 | 152.6 | NM_001003803.1 |
| 127.9 | 132.4 | 123.3 | 107.6 | NM_015684.2 |
| 3794.7 | 3891.2 | 4298.6 | 1632.4 | NM_001183.3 |
| 1890.6 | 2428.8 | 2256.8 | 1941.6 | NM_005765.2 |
| 875 | 838 | 869 | 518.1 | NM_005177.2 |
| 329.8 | 273.9 | 256.1 | 190 | NM_012463.2 |
| 83 | 93.5 | 74.8 | 83.9 | NM_020632.1 |
| 96 | 93.5 | 94.7 | 91.7 | NM_130841.1 |
| 85 | 86.2 | 80.9 | 82.7 | NM_130840.1 |
| 92.7 | 96 | 89.4 | 99.5 | NM_130840.2 |
| 6352.3 | 4829.4 | 4742.1 | 3004.8 | NM_004047.2 |
| 162.9 | 194.8 | 164.1 | 163.2 | NM_001039457.1 |
| 425.9 | 294.6 | 274.6 | 227.6 | NM_001694.2 |
| 1105.7 | 751.2 | 680.9 | 450.9 | NM_004691.3 |
| 90.7 | 90.7 | 90 | 88 | NM_152565.1 |
| 4256.6 | 3555.9 | 3688.3 | 2616.1 | NM_003945.3 |
| 834.4 | 664.6 | 660.6 | 309.2 | NM_145230.1 |
| 3751.4 | 4451.2 | 3833.9 | 3368.9 | NM_001690.2 |
| 280.7 | 297.1 | 374.4 | 214.1 | NM_001692.2 |
| 8358.6 | 4509.1 | 3615.4 | 2769.8 | NM_001693.2 |
| 248.8 | 283.3 | 228.7 | 264.9 | NM_001695.3 |
| 95.3 | 100.2 | 83.5 | 100.2 | NM_001695.3 |
| 94.3 | 126.4 | 137.5 | 114.9 | NM_144583.2 |
| 85.6 | 83.8 | 80.7 | 79.8 | NM_144583.3 |
| 1124.1 | 860.3 | 661 | 640.4 | NM_015994.2 |
| 3525.5 | 2949.7 | 2829.2 | 1747.1 | NM_001039367.1 |
| 3233.7 | 2634.6 | 2413.1 | 1475.2 | NM_001696.2 |
| 197.3 | 223 | 215.7 | 181.8 | NM_080653.3 |
| 2918.9 | 2123.3 | 2152.1 | 1329.4 | NM_004231.2 |
| 2315.5 | 2120.2 | 1793 | 1584.7 | NM_004888.2 |
| 128.9 | 103.5 | 101.6 | 97 | NM_130463.2 |
| 89.2 | 99.3 | 84.8 | 94 | NM_130463.2 |
| 98.8 | 80.4 | 81.4 | 84.2 | NM_133262.2 |
| 105.4 | 93.6 | 82 | 82.5 | NM_213620.1 |
| 452.5 | 356.8 | 327.6 | 262.6 | NM_213619.1 |
| 96.9 | 117.7 | 112.3 | 118.6 | NM_000052.2 |
| 104.9 | 89.4 | 96.7 | 97 | NM_000053.2 |
| 115.3 | 188 | 182.1 | 162.2 | NM_000053.2 |
| 90.1 | 85.6 | 80.1 | 83.6 | NM_006095.1 |
| 117.4 | 114.2 | 104.4 | 97.9 | NM_016529.3 |
| 90.2 | 88.3 | 91.2 | 93.8 | NM_005603.2 |
| 100 | 96.9 | 84.1 | 98.4 | NM_001005855.1 |
| 164.5 | 135.7 | 150.3 | 120.9 | NM_020452.2 |
| 176 | 193.8 | 191.9 | 145 | NM_138813.2 |
| 3096.9 | 3938.1 | 4227.9 | 3232.6 | NM_024837.2 |
| 206.7 | 338.6 | 325.3 | 241.2 | NM_006045.1 |
| 134.4 | 129.5 | 116.8 | 111 | NM_198531.3 |
| 482.1 | 361.2 | 304.8 | 244.9 | NM_022745.2 |
| 357.4 | 326.4 | 288 | 201.9 | NM_001042546.1 |

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| 120.5 | 115.3 | 115.5 | 93.2 NM_145691.3 |
| 557.9 | 429.3 | 476.7 | 285.7 NM_018066.3 |
| 91.3 | 81.9 | 83 | 85.1 NM_016301.2 |
| 141.9 | 120 | 121.4 | 106.1 NM_145232.2 |
| 131.6 | 97.5 | 106.1 | 101.1 NM_080650.2 |
| 470 | 442.2 | 369.5 | 272.6 NM_016311.3 |
| 108.9 | 105.2 | 106 | 116.6 NM_178191.1 |
| 90.5 | 84 | 79.8 | 97.1 NM_001184.2 |
| 86.3 | 71 | 85.7 | 78.8 NM_001184.2 |
| 94 | 85 | 96.3 | 89.1 NM_001184.2 |
| 98.1 | 128.7 | 112.6 | 129.1 NM_139322.1 |
| 89.5 | 95.8 | 87.9 | 77.6 NM_139321.1 |
| 94.7 | 91 | 83.1 | 86.3 NM_207303.1 |
| 89.5 | 109.7 | 94.3 | 101.2 NM_138270.1 |
| 82 | 76.6 | 77.3 | 80.6 NM_000489.2 |
| 83.4 | 85.2 | 75.4 | 74.7 NM_138271.1 |
| 127.2 | 144.3 | 142.4 | 143.2 NM_000332.2 |
| 103.8 | 108.8 | 101.7 | 103.6 NM_013236.2 |
| 932.6 | 1143.4 | 1200 | 676.4 NM_002973.2 |
| 163.9 | 162.2 | 146.6 | 169.7 NM_007245.2 |
| 97.8 | 114.7 | 115.5 | 123.8 NM_017492.2 |
| 279.8 | 335.2 | 416 | 275.7 NM_030660.2 |
| 115.8 | 115.5 | 116.4 | 122.7 NM_030660.2 |
| 89 | 78.8 | 80 | 80.1 NM_000333.2 |
| 185.2 | 114.3 | 112.7 | 118.3 NM_153340.2 |
| 96.9 | 93.6 | 92 | 85.1 NM_152749.2 |
| 81.6 | 90.7 | 88.8 | 98.7 NR_002717.1 |
| 176 | 187.5 | 175.1 | 150.3 NM_001698.1 |
| 410.6 | 303 | 355.5 | 215.9 NM_012103.2 |
| 2845.1 | 1967.9 | 1668 | 1254.5 NM_198434.1 |
| 2434.3 | 1654.2 | 1417.1 | 1035.6 NM_198434.1 |
| 4058.3 | 3925.1 | 3824.1 | 2070.6 NM_017900.1 |
| 756.5 | 355.7 | 331 | 292.5 NM_004217.1 |
| 86.3 | 89.3 | 80.6 | 83.8 NM_001015878.1 |
| 83.2 | 84.4 | 80.5 | 84 NM_001015878.1 |
| 119.4 | 96.2 | 96 | 83.9 NM_001015879.1 |
| 86.6 | 85.9 | 81.4 | 80.5 NM_015570.1 |
| 144.7 | 119.1 | 123.2 | 145.4 NM_020371.2 |
| 106.9 | 113.2 | 111.9 | 95.7 NM_006576.2 |
| 100.4 | 94.3 | 91.5 | 91.6 NM_000490.3 |
| 254.1 | 327.3 | 245.3 | 183.4 NM_021732.1 |
| 94.9 | 90.3 | 94.7 | 94 NM_000706.3 |
| 82.3 | 81.4 | 78.4 | 77.4 NM_000707.2 |
| 84.2 | 88.9 | 76.2 | 80.5 NM_000054.2 |
| 604.8 | 839.5 | 814.6 | 613.2 NM_001014279.1 |
| 959.9 | 724.6 | 685.8 | 451.2 NM_181050.1 |
| 91.4 | 94.1 | 84.4 | 88.4 NM_003502.2 |
| 106.8 | 85.1 | 84.7 | 90.3 NM_004655.2 |
| 141.5 | 252.6 | 204.8 | 154 NM_001699.3 |
| 153 | 264 | 201.4 | 213.5 NM_021913.2 |

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| 348.3 | 396 | 349.4 | 208.9 NM_033027.2 |
| 109 | 110.9 | 104.4 | 92.7 NM_032193.2 |
| 159.2 | 112.6 | 112.8 | 111.4 NM_017839.3 |
| 298.1 | 212.4 | 227.3 | 147.5 NM_024830.3 |
| 94.5 | 89.5 | 88.9 | 87.6 NM_001185.2 |
| 460 | 515.6 | 526.9 | 279 NM_014984.1 |
| 77.3 | 90.5 | 78.4 | 87.2 NM_014984.1 |
| 201.5 | 245.2 | 189.9 | 209.3 NM_022461.2 |
| 3227.7 | 2309.2 | 1996.8 | 1654.8 NM_015878.4 |
| 263.4 | 173.8 | 174.2 | 164.5 NM_015878.4 |
| 159.8 | 108 | 111.9 | 110.2 NM_148174.2 |
| 11310.1 | 8861.1 | 7839.3 | 7459.3 NM_001700.3 |
| 3114.4 | 2683.2 | 2615.6 | 2000 NM_004048.2 |
| 277.9 | 251.5 | 223.6 | 205.9 NM_033168.2 |
| 277 | 195 | 178.9 | 162.1 NM_152490.1 |
| 97 | 113.2 | 111.3 | 96.8 NM_020981.2 |
| 92.2 | 99.2 | 96.7 | 90 NM_003783.2 |
| 120.1 | 115.3 | 124.1 | 120.3 NM_003781.2 |
| 97.1 | 85.7 | 75.7 | 85.4 NM_033169.1 |
| 98.4 | 97.4 | 100.3 | 93.3 NM_033169.1 |
| 97.2 | 111.8 | 98.7 | 108.7 NM_003782.3 |
| 87 | 88.4 | 79.1 | 80 NM_033172.1 |
| 92.1 | 90 | 81.7 | 93.3 NM_006057.1 |
| 90.4 | 86.5 | 87.6 | 87.3 NM_033173.1 |
| 456.5 | 404.9 | 368.5 | 414.9 NM_080605.2 |
| 131.9 | 126.5 | 124 | 116.7 NM_198540.2 |
| 93.7 | 98.6 | 108.4 | 96.6 NM_054025.1 |
| 89 | 88.9 | 86.5 | 91.4 NM_018644.3 |
| 100 | 87.6 | 89.9 | 89.9 NM_054025.1 |
| 95.2 | 95.9 | 85.6 | 100.2 NM_080742.1 |
| 225.7 | 196.7 | 163.3 | 163.5 NM_012200.2 |
| 373 | 264.6 | 217.7 | 176.1 NM_006577.3 |
| 100.6 | 88.6 | 89.1 | 98 NM_014256.2 |
| 85 | 82.3 | 77.9 | 83 NM_030765.2 |
| 112 | 99.6 | 100.9 | 110.3 NM_032047.3 |
| 208.2 | 173.7 | 152.5 | 164.7 NM_006876.1 |
| 87.8 | 94.9 | 80.8 | 89.6 NM_138706.2 |
| 88.5 | 87.4 | 92.3 | 100.3 NM_145236.1 |
| 173.5 | 170.5 | 180.3 | 160.2 NM_001009905.1 |
| 186.8 | 154.5 | 107.5 | 153.8 NM_194318.2 |
| 92.7 | 87 | 84.5 | 85.5 NM_153446.1 |
| 77.2 | 79.9 | 75.7 | 94.6 NM_173593.3 |
| 75.8 | 77.8 | 78.6 | 80.8 NM_178537.3 |
| 146.9 | 148 | 122.9 | 143 NM_001497.2 |
| 99 | 97.9 | 88.9 | 99.9 NM_001005417.1 |
| 102.2 | 107.3 | 92.1 | 103.1 NM_003780.3 |
| 107.5 | 82.1 | 85.8 | 93.2 NM_001005417.1 |
| 1570.9 | 756.6 | 784.7 | 385.5 NM_003779.2 |
| 195.7 | 153.1 | 151.4 | 148.8 NM_003778.3 |
| 141.3 | 129.5 | 133.8 | 131.1 NM_003778.3 |

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| 1078.5 | 1044.7 | 900.1 | 608.7 NM_004776.2 |
| 99 | 100.3 | 84.8 | 91.5 NM_004775.2 |
| 428.4 | 411 | 401 | 235.5 NM_007255.1 |
| 198.6 | 158.4 | 131.5 | 134.6 NM_001015882.1 |
| 78.1 | 88.3 | 73 | 76.6 NM_001001663.1 |
| 107.7 | 104.3 | 95 | 99.9 NM_001024372.1 |
| 89.7 | 95.1 | 90 | 89.1 NM_024812.2 |
| 79.1 | 75.2 | 72.1 | 82.9 NM_001701.2 |
| 134.7 | 139.6 | 115.3 | 149.7 NM_138972.2 |
| 101.2 | 102.1 | 86.4 | 81.2 NM_012104.3 |
| 87 | 81.6 | 74.4 | 89 NM_138991.1 |
| 89.4 | 90.5 | 97.6 | 96 NM_012105.3 |
| 106.2 | 106.8 | 111.5 | 103.9 NM_001011545.1 |
| 79.9 | 80.4 | 83.5 | 82.7 NM_206866.1 |
| 80.9 | 85.9 | 82.4 | 91.1 NM_001011545.1 |
| 86.7 | 89.1 | 84.6 | 87.1 NM_021813.1 |
| 98.5 | 97.3 | 94 | 89.5 NM_032989.1 |
| 293.5 | 214.9 | 231.4 | 192.9 NM_004322.2 |
| 98.6 | 94.2 | 91.8 | 103.6 NM_004322.2 |
| 128.2 | 121.2 | 108 | 116.4 NM_004323.3 |
| 874.8 | 396.4 | 443.8 | 245.2 NM_004281.3 |
| 168.8 | 113.1 | 109.7 | 112.4 NM_004874.2 |
| 1416.4 | 985.9 | 963.5 | 757.8 NM_004873.2 |
| 91 | 85.2 | 75.5 | 84.4 NM_001015048.1 |
| 85.5 | 91.7 | 83.7 | 79.6 NM_001015049.1 |
| 241.9 | 235.2 | 206 | 166.8 NM_001015048.1 |
| 98.9 | 92.4 | 92.8 | 95.6 NM_001187.1 |
| 90.2 | 93.3 | 85.4 | 88.2 NM_182482.1 |
| 82.7 | 83.8 | 82.5 | 93.4 NM_182481.1 |
| 88.8 | 89.5 | 82.3 | 87.2 NM_181704.1 |
| 95.4 | 121.5 | 102.9 | 109.6 NM_182484.1 |
| 90.5 | 86.3 | 86.8 | 90.4 NM_014952.2 |
| 109.9 | 88.1 | 91.5 | 85.9 XM_940726.1 |
| 88.9 | 80.9 | 82.5 | 85.1 NM_001702.1 |
| 87.4 | 80.4 | 82.9 | 82.1 NM_001702.1 |
| 77.8 | 80.1 | 79.1 | 87 NM_001703.1 |
| 89.1 | 109.4 | 97.6 | 94.5 NM_001704.1 |
| 144 | 181.6 | 184.9 | 184.8 NM_006340.1 |
| 109.6 | 113.7 | 118.7 | 116.7 NM_017450.1 |
| 92.5 | 98.3 | 89.5 | 105.9 NM_006340.1 |
| 87.8 | 78.5 | 83.7 | 90 NM_017451.1 |
| 117.9 | 101.9 | 112.4 | 121.9 NM_018842.3 |
| 111.3 | 135.1 | 143 | 119.1 NM_025045.3 |
| 79.6 | 78.9 | 77.1 | 85.1 NM_003933.3 |
| 153.3 | 165 | 153.6 | 118 NM_001188.2 |
| 148.8 | 127 | 109.9 | 107 NM_012342.2 |
| 3622.5 | 2468.5 | 2151.9 | 1886.3 NM_003860.2 |
| 251.2 | 291.6 | 264.4 | 222 NM_017935.2 |
| 124.1 | 116.5 | 99.7 | 113.9 NM_017869.3 |
| 286.6 | 269 | 217.3 | 182.5 NM_004656.2 |

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|--------|--------|--------|--------|----------------|
| 765.3 | 529.6 | 577.6 | 341.8 | NM_001189.2 |
| 689.4 | 785.2 | 822.4 | 627.5 | NM_000465.1 |
| 97.5 | 88 | 83.8 | 91.3 | NM_020064.2 |
| 89.9 | 86.3 | 86.1 | 81.4 | NM_020063.1 |
| 291.8 | 179.2 | 175.2 | 166.1 | NM_021570.2 |
| 100.9 | 107 | 108.7 | 94.4 | NM_003658.3 |
| 3450.9 | 5204.9 | 3910.8 | 4784 | NM_006317.3 |
| 1868.7 | 1680.4 | 1395.5 | 1815.5 | NM_004640.4 |
| 96.1 | 97.1 | 86 | 85.1 | NM_004640.4 |
| 107 | 115.6 | 86.7 | 93.6 | NM_080598.4 |
| 491.3 | 598.5 | 520.1 | 572.4 | NM_080686.1 |
| 804.9 | 900.9 | 754 | 750.5 | NM_080686.1 |
| 1044 | 1617.2 | 1230.2 | 1340.3 | NM_015172.2 |
| 245.9 | 234 | 217 | 130.9 | NM_080703.1 |
| 285.8 | 262.6 | 256.9 | 197.4 | NM_080703.1 |
| 144.1 | 126.6 | 117.2 | 109.6 | NM_033177.2 |
| 742.2 | 935.1 | 771 | 734.3 | NM_021160.1 |
| 463.1 | 353.5 | 306.5 | 202.5 | NM_006399.2 |
| 98.3 | 90.1 | 96.9 | 95.2 | NM_138456.3 |
| 1509.8 | 1277 | 1132.7 | 1045 | NM_138765.2 |
| 91.4 | 83.7 | 83.5 | 91.9 | NM_138764.2 |
| 169.6 | 180.1 | 138.6 | 159.8 | NM_004324.3 |
| 2263.6 | 1490.4 | 1155 | 1398.8 | NM_182648.1 |
| 337.4 | 343 | 303.5 | 277.2 | NM_013448.2 |
| 659.1 | 840.1 | 577.3 | 680.9 | NM_023005.2 |
| 93.4 | 108.3 | 87.7 | 92.7 | NM_013449.2 |
| 331.5 | 437.2 | 471 | 435.5 | NM_013450.1 |
| 83.3 | 80.7 | 75.5 | 86.6 | NM_014417.2 |
| 99.1 | 88.8 | 78.9 | 88.5 | NM_003986.1 |
| 137.3 | 128.9 | 139.7 | 120.1 | NM_024649.4 |
| 105.6 | 108.4 | 114.8 | 117 | NM_152618.2 |
| 196.9 | 265.8 | 266.5 | 228.6 | NM_031885.2 |
| 248.2 | 280.7 | 247.5 | 202.1 | NM_033028.2 |
| 88.2 | 92.9 | 85 | 101.2 | NM_152384.2 |
| 94.4 | 79.1 | 84.6 | 85.2 | XM_939889.1 |
| 85.8 | 93.6 | 86.9 | 89.2 | NM_152384.2 |
| 96.4 | 98.6 | 89.6 | 95.1 | NM_018190.2 |
| 172.5 | 164.7 | 166.6 | 161.1 | NM_176824.1 |
| 86.4 | 83.7 | 82.6 | 83.1 | NM_018190.2 |
| 91.5 | 91.9 | 89.6 | 82.7 | NM_198428.2 |
| 254.1 | 279.3 | 267 | 269.1 | NM_020235.2 |
| 472.6 | 495.3 | 424.4 | 452.7 | NM_033200.1 |
| 85.2 | 88.5 | 90.9 | 86.5 | NM_001005850.1 |
| 94.3 | 85.6 | 88.8 | 94.6 | NM_005581.3 |
| 86.7 | 85.6 | 78.7 | 81.3 | NM_001013257.1 |
| 110.7 | 104.7 | 101.6 | 95.2 | NM_005581.3 |
| 106.7 | 109.4 | 112.3 | 101.1 | NM_198427.1 |
| 92.3 | 86.4 | 85 | 91.4 | NM_198427.1 |
| 110.4 | 81.6 | 82.8 | 81.7 | NM_021948.3 |
| 361.6 | 319.2 | 292.3 | 298.8 | NM_001008406.1 |

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| 90.2 | 99.1 | 84.8 | 93.4 NM_001008407.1 |
| 262.4 | 224.4 | 235.5 | 270.8 NM_018844.2 |
| 105 | 98.4 | 103.8 | 100.1 NM_001008405.1 |
| 255.3 | 247.2 | 221.7 | 202 NM_001008406.1 |
| 3079.5 | 2461.6 | 2456.1 | 1867.3 NM_005745.6 |
| 122.7 | 103.2 | 107 | 102.1 NM_014567.2 |
| 146.9 | 231.3 | 193.2 | 164.8 NM_003567.2 |
| 85.9 | 85.5 | 86.3 | 85.2 NM_003657.1 |
| 90 | 85 | 84.8 | 81.9 NM_005872.2 |
| 97.4 | 88 | 92.9 | 86 NM_017679.2 |
| 115 | 103.5 | 112.4 | 115.2 NM_017843.3 |
| 98.9 | 93.4 | 100.1 | 81.2 NM_017843.3 |
| 111.2 | 102.1 | 102.2 | 107.7 NM_017843.3 |
| 551 | 287.1 | 202.7 | 194.7 NM_005504.4 |
| 442.6 | 257.2 | 255.3 | 199.7 NM_001190.2 |
| 1871.6 | 1188 | 1026.8 | 792.5 NM_078468.1 |
| 487.4 | 380.8 | 275.4 | 317.9 NM_078468.1 |
| 366.2 | 276 | 235.4 | 219.6 NM_016567.2 |
| 92.1 | 87.3 | 84.6 | 77.8 NM_078469.1 |
| 949.2 | 838.1 | 771.5 | 432.8 NM_019606.4 |
| 82.6 | 81.5 | 77.1 | 77.2 NM_001037290.1 |
| 93.7 | 78.4 | 82.7 | 94.6 NM_000055.1 |
| 927.5 | 915.2 | 903.9 | 528.4 NM_000709.2 |
| 201.7 | 202.2 | 207.7 | 180.1 NM_000056.2 |
| 102.5 | 91.8 | 95 | 86.3 NM_183050.1 |
| 1532.7 | 1008.4 | 1057.2 | 489.5 NM_005881.1 |
| 139.6 | 119.4 | 124.6 | 114.5 NM_003921.2 |
| 183 | 161.7 | 130.9 | 148.1 NM_022893.2 |
| 94.9 | 92.7 | 94.3 | 93.8 NM_138559.1 |
| 138.1 | 125.4 | 115.4 | 111.3 NM_138553.1 |
| 88.8 | 82.3 | 84 | 89.4 NM_022898.1 |
| 91.3 | 90.9 | 87.3 | 87 NM_138576.2 |
| 93.2 | 86.4 | 98 | 95.1 NM_000657.2 |
| 87.4 | 78.6 | 80.2 | 82.4 NM_000657.2 |
| 1422.4 | 946 | 744.6 | 879.6 NM_000633.2 |
| 105.5 | 87.5 | 90 | 85.2 NM_004049.2 |
| 697.9 | 532.3 | 434.5 | 457.7 NM_138578.1 |
| 120.8 | 118.4 | 119 | 120.4 NM_138578.1 |
| 90.2 | 82.5 | 76.5 | 82.9 NM_020396.2 |
| 92.3 | 94.3 | 90.4 | 101.8 NM_138625.2 |
| 101.7 | 91 | 97.7 | 87.4 NM_207002.1 |
| 99.3 | 97 | 91.5 | 88.4 NM_006538.3 |
| 183.7 | 149.6 | 131.3 | 135.6 NM_138639.1 |
| 1195.7 | 658.1 | 665.8 | 415 NM_001040668.1 |
| 937.3 | 450 | 480.8 | 305.1 NM_052842.2 |
| 2409.4 | 2621.6 | 2384.1 | 1444.4 NM_015367.2 |
| 94.8 | 95.9 | 86.5 | 90.3 NM_030766.1 |
| 83.9 | 94.1 | 91 | 85 NM_138724.1 |
| 103.3 | 104.6 | 100.7 | 102.4 NM_138723.1 |
| 76.7 | 75.8 | 76.3 | 81 NM_138724.1 |

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| 259.8 | 247.5 | 219.6 | 199.2 NM_004050.2 |
| 166.4 | 145.9 | 125.6 | 137.3 NM_005178.2 |
| 81.2 | 81.2 | 80.6 | 82.8 NM_138931.1 |
| 276 | 315.6 | 288 | 229.1 NM_001706.2 |
| 95.4 | 81.3 | 85.9 | 88 NM_181844.2 |
| 88.7 | 85 | 84.9 | 89.8 NM_020993.3 |
| 91.1 | 86.6 | 90.3 | 87.4 NM_020993.3 |
| 98.9 | 92 | 85.8 | 92.6 NM_001024808.1 |
| 262.7 | 227.6 | 232 | 182.3 NM_001707.2 |
| 471 | 355.1 | 377.1 | 190 NM_138707.1 |
| 831.6 | 455.8 | 395.7 | 436.6 NM_004765.2 |
| 149.8 | 141.8 | 123.6 | 118.6 NM_004326.2 |
| 99.7 | 90.5 | 87.3 | 97.5 NM_182557.1 |
| 2057.9 | 1536.3 | 1504 | 1477.5 NM_014739.1 |
| 549.3 | 383.1 | 356.6 | 424.3 NM_014739.2 |
| 84.4 | 77.9 | 76.5 | 75.5 NM_017429.2 |
| 96.9 | 94.8 | 91 | 97.8 NM_173544.2 |
| 631.5 | 769.1 | 585.6 | 678.1 NM_017745.4 |
| 114.4 | 122.5 | 129.2 | 135.1 NM_020926.2 |
| 145.7 | 152.6 | 168.6 | 158.1 NM_020926.2 |
| 113.2 | 137.1 | 126.4 | 126.4 NM_021946.2 |
| 84.4 | 82.2 | 80.1 | 88.3 NM_173700.1 |
| 87.9 | 101.8 | 82.7 | 85.1 NM_004327.2 |
| 90.8 | 103 | 95.1 | 96.1 NM_004327.2 |
| 123.4 | 139.3 | 123.5 | 120.2 NM_021574.2 |
| 389.7 | 349.5 | 301.7 | 217.1 NM_004328.3 |
| 86.9 | 79.4 | 76.7 | 85.5 NM_203314.1 |
| 75.7 | 81.6 | 83.4 | 83.3 NM_203315.1 |
| 152.3 | 119 | 142.8 | 112.3 NM_004051.3 |
| 86 | 81 | 85.5 | 83.9 NM_020139.3 |
| 97.1 | 100.7 | 102.2 | 94.1 NM_000710.2 |
| 80.4 | 79.4 | 84.1 | 96.4 NM_000623.2 |
| 100 | 79.9 | 85.8 | 86.9 NM_170732.3 |
| 103 | 101.5 | 95.3 | 88.2 NM_170731.3 |
| 107.5 | 87.8 | 80.3 | 84.1 NM_170734.2 |
| 107.5 | 103.8 | 101.7 | 78.2 NM_001709.3 |
| 83.9 | 89.1 | 94.6 | 84.6 NM_170735.4 |
| 90 | 92.5 | 87.1 | 85 NM_170733.2 |
| 83.5 | 95.8 | 79.2 | 96.2 NM_001709.3 |
| 104.1 | 121.1 | 134.8 | 125.8 NM_018429.1 |
| 355.9 | 432.8 | 323.7 | 343.1 NM_003766.2 |
| 258.9 | 174.5 | 199 | 177.5 NM_005868.3 |
| 116.3 | 119.5 | 101.5 | 109.9 NM_016526.3 |
| 3890.2 | 596.4 | 635 | 441.8 NM_018476.3 |
| 91.1 | 97.4 | 88.2 | 94.5 NM_032621.2 |
| 129 | 106.7 | 110 | 107.5 NM_001080425.1 |
| 187.9 | 148.4 | 154.4 | 129.7 XM_936467.1 |
| 450.7 | 333.2 | 291.4 | 294.4 NM_016561.1 |
| 101.2 | 84.5 | 88.5 | 86.3 NM_001195.2 |
| 91.4 | 102.3 | 91 | 89.1 NM_003571.2 |

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| 116.4 | 119.8 | 110.2 | 107.9 | NM_199173.2 |
| 109.6 | 102 | 99.6 | 100.2 | NM_001711.3 |
| 356.8 | 1509.2 | 1388.7 | 1042.2 | NM_003670.1 |
| 91 | 85.4 | 95.1 | 91 | NM_030762.1 |
| 88.9 | 90.1 | 84.1 | 85.1 | NM_080606.2 |
| 5264.3 | 4158.2 | 3814.3 | 3177 | NM_152414.3 |
| 94.8 | 93 | 97.3 | 97.6 | NM_177455.2 |
| 130.6 | 128 | 130.9 | 121.5 | NM_030639.1 |
| 73.8 | 72.1 | 72.8 | 72.6 | NM_001713.1 |
| 77.2 | 76.8 | 79.5 | 80.7 | NM_017614.3 |
| 94.9 | 95.1 | 86.8 | 92.7 | XM_498431.2 |
| 92.9 | 91.2 | 86.1 | 86.9 | NM_001714.2 |
| 117.6 | 109.9 | 105.3 | 106 | NM_001003398.1 |
| 85.6 | 88 | 79.7 | 91.5 | NM_001003800.1 |
| 756.7 | 815.6 | 742.6 | 608 | NM_001003800.1 |
| 515.5 | 613.7 | 463.5 | 479.7 | NM_197967.1 |
| 344.6 | 429.7 | 378.8 | 326 | NM_001196.2 |
| 83.6 | 84.8 | 77.7 | 83 | NM_197966.1 |
| 340 | 343.6 | 364.6 | 246.5 | NM_001197.3 |
| 292.9 | 360.8 | 329 | 306.1 | NM_139343.1 |
| 415 | 581.2 | 457.3 | 443 | NM_139348.1 |
| 96.2 | 96.6 | 86.2 | 105.6 | NM_016293.2 |
| 148.5 | 133 | 147.1 | 120.4 | NM_018688.3 |
| 89.5 | 94 | 85.3 | 84.8 | NM_004536.1 |
| 110 | 182.7 | 202.1 | 175.4 | XM_936944.1 |
| 584.6 | 466.7 | 420.2 | 555.1 | NM_001166.3 |
| 436.5 | 735.9 | 912 | 806.2 | NM_182962.1 |
| 100.7 | 104.8 | 103 | 123.8 | NM_001165.3 |
| 99 | 92.5 | 86.3 | 92.2 | NM_001165.3 |
| 89.4 | 91.7 | 86 | 87.2 | NM_001167.2 |
| 616.9 | 373.6 | 378.2 | 272.7 | NM_001168.2 |
| 306.9 | 159.2 | 163.8 | 130.1 | NM_001012271.1 |
| 145.3 | 168.2 | 159 | 143.3 | NM_016252.2 |
| 87.8 | 88.3 | 96 | 90.4 | NM_022161.2 |
| 89 | 86.9 | 86.7 | 95.3 | NM_139317.1 |
| 95.3 | 93.7 | 102.9 | 93.4 | NM_033341.3 |
| 471 | 376.7 | 340.1 | 495.8 | NM_017693.2 |
| 284 | 359 | 339 | 297.6 | NM_006698.2 |
| 103.5 | 94.4 | 101.2 | 105.8 | NM_031450.2 |
| 92 | 98.8 | 92.8 | 94.5 | NM_001715.2 |
| 459.7 | 447.3 | 342.5 | 422 | NM_000057.1 |
| 333.5 | 290 | 241.4 | 237.4 | NM_000386.2 |
| 98.3 | 85.4 | 74.5 | 85.7 | NM_013314.2 |
| 343.1 | 335.2 | 314.5 | 344.1 | NM_001487.1 |
| 103.5 | 94.7 | 95.6 | 93.4 | NM_001001342.1 |
| 128.3 | 115.1 | 104.6 | 108 | NM_001001342.1 |
| 86.8 | 82.4 | 96 | 96.6 | NM_212550.1 |
| 82.2 | 79.7 | 80.7 | 84.9 | NM_032966.1 |
| 122.3 | 119.3 | 121.7 | 116.7 | NM_032966.1 |
| 91.6 | 93 | 86.9 | 87.4 | NM_001716.2 |

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| 228.5 | 501.1 | 482.1 | 322.1 NM_000712.3 |
| 146.5 | 198.4 | 207 | 141.5 NM_000713.1 |
| 230.4 | 243.2 | 336.1 | 326.2 NM_003666.2 |
| 100.8 | 93.4 | 90.7 | 93.8 NM_016564.2 |
| 86.9 | 95.4 | 91.5 | 98.4 NM_001003942.1 |
| 92.4 | 89.9 | 91.2 | 91.9 NM_033503.3 |
| 87.3 | 86.2 | 87.7 | 91.5 NM_001003940.1 |
| 83.9 | 100.1 | 90.8 | 109.3 NM_001003943.1 |
| 88.4 | 76.6 | 89.9 | 91.8 NM_006128.1 |
| 109.5 | 89.4 | 92.4 | 92.8 NM_006131.1 |
| 225.4 | 186.1 | 178.1 | 153.9 NM_006129.2 |
| 89.2 | 83.6 | 82.9 | 96.9 NM_014482.1 |
| 103.6 | 95.5 | 93.4 | 90.4 NM_005448.1 |
| 161.8 | 101.4 | 103.7 | 116.7 NM_001200.1 |
| 162.3 | 127.7 | 120.2 | 114.5 NM_017593.3 |
| 114.5 | 109.2 | 102 | 106.2 NM_017593.3 |
| 109.6 | 129.4 | 111.3 | 122.1 NM_198892.1 |
| 85.6 | 83.3 | 77.8 | 81 NM_001201.1 |
| 195.8 | 100 | 96.6 | 105.6 NM_001202.2 |
| 83.2 | 87.1 | 78.6 | 86.6 NM_001202.2 |
| 98.9 | 93.1 | 84.3 | 82.1 NM_130851.1 |
| 90.8 | 107.8 | 86.2 | 87.8 NM_021073.2 |
| 92 | 81.2 | 78.7 | 89 NM_001718.2 |
| 96.2 | 86.7 | 83.5 | 81.6 NM_001719.1 |
| 87.7 | 100.9 | 92.8 | 92.2 NM_181809.1 |
| 405.5 | 220.5 | 223.6 | 210.3 NM_001720.3 |
| 89.9 | 75.2 | 78.8 | 80.8 NM_133468.2 |
| 96.6 | 89.9 | 82 | 88.3 NM_004329.2 |
| 77.7 | 82.9 | 81.5 | 80.6 NM_001203.1 |
| 164.7 | 228.2 | 159.1 | 141.9 NM_001204.5 |
| 828.3 | 690.4 | 566.6 | 380.4 NM_014753.2 |
| 101.7 | 100.9 | 89.5 | 102 NM_001721.4 |
| 93.5 | 94.1 | 94.2 | 88.6 NM_203281.1 |
| 105.7 | 88 | 96.3 | 104.7 NM_001717.2 |
| 85.4 | 83 | 79.5 | 88.2 NM_001717.2 |
| 88.9 | 96.7 | 89.1 | 82.4 NM_017637.4 |
| 177.9 | 123.1 | 138.5 | 117.2 NM_013978.1 |
| 265.4 | 209 | 199.5 | 167.9 NM_013979.1 |
| 1596.6 | 1330.9 | 1162.5 | 1150.1 NM_004330.1 |
| 1513.5 | 1199.1 | 1071.6 | 868.5 NM_004052.2 |
| 94.8 | 103.8 | 104.4 | 123.7 NM_004331.2 |
| 107 | 105.3 | 116 | 94.9 XM_936962.1 |
| 116 | 110.3 | 117.5 | 108.9 NM_138278.1 |
| 83.5 | 84.6 | 80.5 | 79.1 NM_138279.1 |
| 85.1 | 81.8 | 75.6 | 90 NM_033254.2 |
| 125 | 120 | 129.8 | 114.5 NM_032515.3 |
| 105.9 | 99.1 | 96.3 | 95.6 NM_016074.1 |
| 2486.3 | 2046.1 | 1744.5 | 1285.6 NM_001031827.1 |
| 313.7 | 231.5 | 204.4 | 194.9 NM_001031827.1 |
| 4821.8 | 3376.9 | 2894.9 | 2806 NM_212552.1 |

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| 5500.5 | 3712.9 | 3740.2 | 3033.7 | NM_212552.2 |
| 83.6 | 88.9 | 87.5 | 91.5 | NM_212552.2 |
| 83.1 | 82 | 77.1 | 80.9 | NM_033030.3 |
| 103.1 | 102.2 | 94.8 | 95.8 | NM_197970.1 |
| 85.1 | 81.1 | 81.8 | 76 | NM_033030.3 |
| 2437.6 | 1385 | 1337.1 | 569 | NM_015201.3 |
| 213.5 | 207.3 | 169.5 | 208.2 | NR_002730.1 |
| 160.7 | 145.1 | 152.9 | 152.4 | NM_001724.3 |
| 90.9 | 90.4 | 87.3 | 87.4 | NM_199186.1 |
| 174 | 171.5 | 175.9 | 143.4 | NM_004332.1 |
| 85.4 | 89.6 | 79 | 89.8 | NM_001725.1 |
| 85 | 81.3 | 82.5 | 81 | NM_025227.1 |
| 95.2 | 93.5 | 83.4 | 90.6 | NM_174932.1 |
| 88.9 | 81.1 | 76.2 | 82.2 | NM_174897.1 |
| 253.5 | 186.1 | 184.1 | 172.6 | NM_006085.3 |
| 85.9 | 89.3 | 91.3 | 94.2 | NM_004678.1 |
| 95.3 | 82.5 | 87.5 | 93.3 | NM_001002760.1 |
| 268.8 | 212.5 | 178.1 | 182.9 | NM_018174.4 |
| 116 | 122.1 | 103.9 | 102.8 | NM_004333.2 |
| 86.8 | 71.2 | 85.8 | 98.8 | NM_006768.2 |
| 336.2 | 344.5 | 316.8 | 231.4 | NM_007304.2 |
| 407.5 | 347.9 | 367.4 | 314.1 | NM_007301.2 |
| 97.5 | 87.9 | 91.9 | 91.3 | NM_007295.2 |
| 104.5 | 103.3 | 91.4 | 113.2 | NM_000059.1 |
| 105.4 | 96.1 | 95.6 | 100.7 | NM_001001786.1 |
| 185.2 | 212.9 | 229.5 | 176.8 | NM_014577.1 |
| 2516.5 | 2689 | 2497.2 | 1330.9 | NM_005104.2 |
| 887.6 | 1032 | 957.7 | 883.7 | NM_007371.2 |
| 92.3 | 92.8 | 102.9 | 100.9 | NM_014299.1 |
| 103.9 | 100.7 | 104.7 | 101.3 | NM_058243.1 |
| 660.1 | 517.4 | 396 | 382.2 | NM_013263.2 |
| 380.6 | 445.4 | 371.3 | 483.4 | NM_183359.1 |
| 85.6 | 87.5 | 81 | 86.8 | NM_139199.1 |
| 1822.7 | 1358 | 1616.2 | 672 | NM_023924.2 |
| 99.1 | 97.8 | 88.9 | 98.8 | NM_023924.2 |
| 97.3 | 90.1 | 89.1 | 99.9 | NM_012108.1 |
| 78.3 | 81.3 | 77.2 | 85.6 | NM_207189.1 |
| 74.9 | 76.5 | 80.1 | 73.8 | NM_001726.2 |
| 88.3 | 85.2 | 74.8 | 92.2 | NM_001726.2 |
| 785 | 541.5 | 487.4 | 416.1 | NM_199191.1 |
| 523.6 | 354 | 352.8 | 263.5 | NM_199191.1 |
| 80.8 | 82.5 | 80.7 | 83.5 | NM_004899.3 |
| 86.2 | 89.1 | 86.7 | 94 | NM_145696.1 |
| 150.6 | 136.9 | 122.8 | 125.4 | NM_145696.1 |
| 110 | 108.5 | 101.1 | 105.1 | NM_001519.2 |
| 806.4 | 542.4 | 472.8 | 456.6 | NM_018310.2 |
| 2438.8 | 2347.2 | 2142.3 | 2394.2 | NM_015379.3 |
| 128.9 | 118.5 | 115 | 124 | NM_080626.5 |
| 676 | 526 | 480.3 | 285.2 | NM_080626.5 |
| 318.6 | 288.1 | 293.4 | 188.6 | XM_941876.1 |

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| 102.7 | 95.6 | 94.8 | 99.5 NM_032043.1 |
| 1965.9 | 1554.6 | 1334 | 895.4 NM_001024958.1 |
| 272.4 | 207.2 | 167.8 | 146.3 NM_015399.3 |
| 112.6 | 101.8 | 95.4 | 93.5 NM_032352.3 |
| 1559.5 | 1093 | 952.5 | 810.9 NM_015415.1 |
| 2667.3 | 1944.9 | 2285.4 | 1834.2 NM_016098.1 |
| 226.5 | 268 | 249 | 240.5 NM_001003694.1 |
| 3683 | 3437.3 | 3491.9 | 2429 NM_004634.2 |
| 371.4 | 540.1 | 544.1 | 350.8 NM_015695.1 |
| 92.3 | 87.3 | 83.9 | 87.1 NM_015341.2 |
| 94.8 | 90.1 | 97.8 | 92.3 NM_001727.1 |
| 859.5 | 721.1 | 625.8 | 739.6 NM_032430.1 |
| 87.3 | 87.2 | 89.4 | 81.8 NM_003957.1 |
| 112 | 109.1 | 108.3 | 99.7 NM_020180.2 |
| 80.9 | 85.2 | 85.6 | 88.1 XM_943559.1 |
| 110.7 | 104.4 | 92.3 | 99.8 NM_021938.3 |
| 93.4 | 100.6 | 86.4 | 80.2 NM_052840.3 |
| 75.9 | 73.3 | 73.6 | 83.8 NM_018963.3 |
| 90.1 | 103 | 90.1 | 94.3 NM_001007246.1 |
| 440.7 | 408.3 | 402.3 | 263 NM_001007246.1 |
| 89.6 | 99.8 | 86.3 | 91.6 NM_033656.2 |
| 116.2 | 97.4 | 109.9 | 106 NM_018117.10 |
| 100.7 | 80.3 | 82.4 | 98.1 NM_153252.2 |
| 434.8 | 357.7 | 359.2 | 206.4 NM_032667.4 |
| 240.1 | 292.1 | 290 | 259.7 NM_018045.4 |
| 2451.9 | 2063.4 | 1710.3 | 1758.9 NM_198589.1 |
| 96.6 | 90.7 | 90.7 | 94.8 NM_001728.2 |
| 101.7 | 92.7 | 98.6 | 87.1 NM_003458.1 |
| 91.4 | 88.6 | 86.4 | 91.4 NM_057176.2 |
| 336.7 | 291.4 | 270.2 | 222.6 NM_004334.1 |
| 783.1 | 581.2 | 555.1 | 353.3 NM_004335.2 |
| 818 | 892.2 | 885.9 | 670.4 NM_003972.2 |
| 210.1 | 208.5 | 143 | 187.1 NM_001011885.1 |
| 243 | 186.4 | 143.9 | 152.4 NM_025238.3 |
| 270.4 | 210.1 | 168.9 | 191.2 NM_032320.4 |
| 98.8 | 87.3 | 77.6 | 84.5 NM_152322.2 |
| 90.2 | 88.2 | 82 | 85.4 NM_001017523.1 |
| 98.9 | 81.2 | 81.8 | 82.8 NM_001018072.1 |
| 88.5 | 89 | 80.7 | 87 NM_152322.2 |
| 285.1 | 235.6 | 262.8 | 154.6 NM_032444.2 |
| 275.9 | 202.8 | 207.8 | 138.1 NM_144653.3 |
| 101.3 | 92.9 | 96.9 | 98.2 NM_052876.2 |
| 88.1 | 96.4 | 84.8 | 88.5 NM_181443.1 |
| 128 | 147.2 | 149.2 | 117.4 NM_014962.2 |
| 302.1 | 387.3 | 351.4 | 280.1 NM_025224.2 |
| 182.7 | 295.6 | 257.5 | 233.2 NM_017658.2 |
| 634.3 | 509.9 | 403.3 | 305 NM_033271.1 |
| 355.8 | 377.7 | 357.4 | 329.4 NM_001002860.2 |
| 99.1 | 113.9 | 100.9 | 104.7 NM_018167.3 |
| 163 | 158.2 | 142 | 121.3 NM_018167.3 |

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| 81.8 | 85.6 | 88.7 | 88.3 NM_183242.1 |
| 99.6 | 109.5 | 102.3 | 96.4 NM_152733.1 |
| 101.2 | 97.1 | 95.4 | 91.9 NM_001729.1 |
| 119.9 | 118.9 | 122.4 | 107.8 NM_000060.2 |
| 19753.1 | 14893.6 | 13231 | 13206.7 NM_001037637.1 |
| 26470.7 | 19683.2 | 18145 | 17477.5 NM_001207.3 |
| 199.3 | 182.5 | 155.1 | 127.7 NM_001037637.1 |
| 365.7 | 344.2 | 279 | 224 NM_152265.1 |
| 574.8 | 1145.1 | 820.3 | 627.4 NM_001731.1 |
| 165.7 | 197.3 | 149.2 | 193 NM_006763.2 |
| 210 | 160.8 | 149.2 | 197.6 NM_006806.3 |
| 85.4 | 87.1 | 73.9 | 79.9 NM_017589.2 |
| 578.7 | 624.9 | 511.6 | 346.1 NM_000061.1 |
| 100.5 | 96.1 | 88 | 96.7 NM_181780.2 |
| 82.8 | 78.5 | 83.5 | 76.8 NM_001732.1 |
| 97.2 | 83.7 | 81.4 | 91.6 NM_078476.1 |
| 302.8 | 275.7 | 249.6 | 191.4 NM_007049.2 |
| 110.8 | 108.8 | 109 | 112.3 NM_181531.1 |
| 85.1 | 90.4 | 79.2 | 89.1 NM_006995.3 |
| 87.6 | 86.4 | 81.7 | 88.4 NM_024018.1 |
| 86.6 | 92.5 | 83.8 | 79.4 NM_194441.1 |
| 93.2 | 100.7 | 95.6 | 106.5 NM_007048.3 |
| 118.6 | 120.5 | 106.1 | 103.5 NM_007047.3 |
| 99.5 | 94.2 | 90.2 | 88.8 NM_197974.1 |
| 125.2 | 90.2 | 84.9 | 86.1 NM_019602.1 |
| 88.6 | 83.9 | 90.5 | 84.4 NM_197975.1 |
| 102.8 | 88.6 | 79.9 | 80.5 NM_197975.1 |
| 96.2 | 99.8 | 79.6 | 85.2 NM_006707.2 |
| 82.6 | 81.5 | 71.1 | 77.5 NM_024850.1 |
| 95.7 | 91.3 | 85.2 | 87.9 NM_152547.2 |
| 87 | 95.2 | 92 | 81.2 NM_003939.2 |
| 101.2 | 95.5 | 84.3 | 92.1 NM_033637.2 |
| 1213.4 | 703.8 | 565.9 | 540.1 NM_004336.2 |
| 140.5 | 112.6 | 100.4 | 116.6 NM_001211.4 |
| 5885.2 | 2871.7 | 2625.9 | 1742.1 NM_004725.2 |
| 100.5 | 98.5 | 94.4 | 87.9 NM_004725.2 |
| 308.2 | 182.3 | 139.1 | 154.9 NM_001007793.1 |
| 90 | 85.2 | 87.9 | 85.5 NM_147147.2 |
| 99.9 | 86.2 | 87.7 | 78.2 NM_007073.3 |
| 333.4 | 338.8 | 287.8 | 278.4 NM_007073.3 |
| 3021.4 | 2180.6 | 1890.5 | 1593.8 NM_032194.1 |
| 549.5 | 418.7 | 343.9 | 258.4 NM_018321.3 |
| 352.5 | 295.2 | 265.4 | 285 NM_025065.5 |
| 613.3 | 392.7 | 319.5 | 282.9 NM_004053.3 |
| 122.3 | 169.3 | 170.9 | 155.9 NM_004758.1 |
| 80.4 | 77.7 | 78.5 | 80.3 NM_001010873.1 |
| 105.2 | 100.5 | 98.5 | 94.3 NM_014670.2 |
| 2071.4 | 1588.3 | 1268 | 1259.5 NM_014038.1 |
| 104.4 | 99.1 | 86.6 | 96.2 NM_007021.2 |
| 260.6 | 205.4 | 212.2 | 277.4 NM_173473.2 |

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| 91.5 | 90.1 | 82.5 | 87.6 NM_173554.1 |
| 222.3 | 195.3 | 185.8 | 168.7 NM_032024.2 |
| 84.7 | 96.6 | 85.4 | 85.2 NM_153244.1 |
| 89 | 82.1 | 83.9 | 79 NM_001010896.1 |
| 113.9 | 119.1 | 110 | 93.4 NM_001010911.1 |
| 111.6 | 103.4 | 103.2 | 105.6 NM_006829.2 |
| 87.3 | 84.9 | 83.4 | 79.6 NM_018017.2 |
| 149.6 | 148.1 | 122.1 | 129.6 NM_024834.1 |
| 113.9 | 93.3 | 90.1 | 97.2 NM_015652.2 |
| 80.9 | 84.1 | 84.1 | 86.9 NM_001010912.1 |
| 275.7 | 159.8 | 145.9 | 134.9 NM_198472.1 |
| 85.5 | 80.5 | 75 | 73.3 NM_207321.1 |
| 108.1 | 107.7 | 95.9 | 103.6 NM_152429.2 |
| 80.7 | 86.7 | 90.5 | 95.1 NM_001001732.1 |
| 92.3 | 104.9 | 91.6 | 90.8 NM_001010917.1 |
| 194.1 | 172.9 | 195.2 | 173.5 NM_015608.2 |
| 448.9 | 294.8 | 259.1 | 260.6 NM_032804.5 |
| 87 | 79.4 | 80.2 | 84.2 NM_001039380.1 |
| 194.7 | 203.5 | 185.5 | 162.5 NM_017787.3 |
| 101 | 98.2 | 94.4 | 84 NM_152710.1 |
| 130.6 | 130.3 | 124.2 | 112.9 NM_014472.3 |
| 88.2 | 84 | 78.5 | 88.8 NM_152751.1 |
| 382.2 | 339.8 | 274.3 | 290.5 NM_144591.1 |
| 214.9 | 150.7 | 160.3 | 141.4 NM_032709.1 |
| 204 | 210.2 | 250.7 | 159.4 NM_145306.1 |
| 92.2 | 83.5 | 87.7 | 83.1 NM_001080827.1 |
| 129.7 | 134.6 | 122.9 | 115 NM_001010924.1 |
| 94.5 | 89.5 | 87 | 91.5 NM_203441.2 |
| 84.8 | 84.9 | 85.5 | 88.4 NM_145246.3 |
| 105.1 | 107.1 | 90.5 | 90.8 NM_203440.2 |
| 102.7 | 98.5 | 89.1 | 98.9 NM_203439.2 |
| 95.6 | 98.4 | 94.5 | 94.4 NM_203438.2 |
| 198.2 | 211.1 | 158.2 | 184.8 NM_138357.1 |
| 125.9 | 95.1 | 98.8 | 105.3 NM_153810.3 |
| 184.9 | 122.3 | 125.7 | 118.3 NM_153256.2 |
| 99.6 | 93.2 | 85.1 | 86.3 NM_145314.1 |
| 98.4 | 90.6 | 89.8 | 94.8 NM_182554.2 |
| 85.4 | 91.3 | 87.6 | 92.2 NM_001042427.1 |
| 98.1 | 96 | 97.3 | 105.7 NM_001042427.1 |
| 288.5 | 293.2 | 252.1 | 167.6 NM_022153.1 |
| 99.5 | 97.9 | 89.6 | 76.5 NM_001001791.1 |
| 257 | 213.2 | 200 | 191.7 NM_153367.1 |
| 182.7 | 176.6 | 146.1 | 135 NM_025125.2 |
| 2010.4 | 1941.1 | 2644.4 | 1308.5 NM_032333.2 |
| 89.3 | 93.7 | 87.2 | 86.6 NM_018363.1 |
| 246 | 187.3 | 178 | 170.8 NM_001031709.1 |
| 129.4 | 122.7 | 110.7 | 109 NM_001031709.1 |
| 457.6 | 500.2 | 553.1 | 369.1 NM_018121.2 |
| 345.1 | 200.5 | 171.9 | 178.8 NM_001013840.1 |
| 76.4 | 88.4 | 87.7 | 90.9 NM_015631.2 |

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| 161 | 130.4 | 116.8 | 121.7 NM_001013840.1 |
| 91 | 87.8 | 89.9 | 71.9 NM_001009997.1 |
| 91.7 | 89 | 73 | 88.6 NM_145010.2 |
| 86.4 | 82 | 78 | 79 NM_138413.2 |
| 80.4 | 76.7 | 75.1 | 84.3 NM_153714.1 |
| 85.9 | 84.5 | 84.1 | 75.8 NM_024688.1 |
| 1926.3 | 903.4 | 854.4 | 659.2 NM_006023.1 |
| 81.2 | 75.7 | 81 | 76.6 NM_199459.2 |
| 100.8 | 94.2 | 87.4 | 91.3 NM_001031746.1 |
| 93.1 | 89.8 | 73.7 | 80.9 NM_001031746.1 |
| 92.8 | 90.9 | 82.8 | 81.7 NM_144984.1 |
| 311.5 | 240.2 | 189.5 | 193.2 NM_024541.1 |
| 123.6 | 110.4 | 100 | 100.3 NM_024789.3 |
| 105.6 | 96.1 | 100.8 | 95.9 NM_145247.4 |
| 96.9 | 82.9 | 78.7 | 95.7 NM_025145.4 |
| 98.2 | 102.1 | 98.1 | 108 NM_001008723.1 |
| 96.8 | 104.9 | 90.1 | 103.9 NM_024889.3 |
| 88.2 | 90.6 | 84.8 | 82.7 NM_144661.2 |
| 93.3 | 88.8 | 77.7 | 81.3 NM_178832.2 |
| 109.4 | 102.1 | 103.1 | 97.9 NM_022063.1 |
| 100.6 | 97.4 | 96.4 | 95.3 NM_001012711.1 |
| 1029.5 | 685.1 | 667.3 | 464.7 NM_017615.1 |
| 113.1 | 98.5 | 91.5 | 104.3 NM_144587.2 |
| 107.1 | 102.1 | 97.6 | 95.2 NM_024942.1 |
| 120.4 | 111.1 | 102.3 | 101.1 NM_153336.1 |
| 155.6 | 143 | 133.9 | 139 NM_181698.1 |
| 88.1 | 83.8 | 82 | 82.4 NM_181698.1 |
| 81.6 | 84.3 | 79.7 | 80.5 NM_001004298.2 |
| 101 | 84.9 | 94.8 | 90.8 NM_173541.2 |
| 105.7 | 98.3 | 90.7 | 105 NM_017609.2 |
| 93.9 | 88.5 | 84.5 | 86.8 NM_173572.1 |
| 72.8 | 72.9 | 71.1 | 73.5 XM_945168.1 |
| 98.4 | 97.4 | 98.2 | 100 NM_024886.1 |
| 78.8 | 84.3 | 71.3 | 84.2 NM_198515.1 |
| 261.2 | 193.6 | 193.9 | 194.7 NM_024948.2 |
| 102.9 | 91.1 | 105.9 | 97.1 NM_207373.1 |
| 1164.3 | 736.5 | 547.8 | 719.3 NM_022761.2 |
| 10893.2 | 6273.8 | 5062.5 | 4215.2 NM_014206.1 |
| 157.7 | 164.7 | 149.5 | 109.5 NM_006133.1 |
| 101.8 | 84.8 | 92.7 | 88.3 NM_020643.1 |
| 102.7 | 93.6 | 89.6 | 103.9 NM_020642.3 |
| 973.8 | 574.7 | 587.3 | 437.8 NM_020642.3 |
| 457.1 | 294.5 | 315.3 | 232.5 NM_020642.3 |
| 86.2 | 75.9 | 79.7 | 80.7 NM_182901.1 |
| 1393.8 | 951.9 | 971 | 600.6 NM_020642.3 |
| 1375.2 | 1048.3 | 1160.8 | 490.7 NM_013265.2 |
| 170.6 | 153.2 | 153.2 | 121.3 NM_022338.2 |
| 109.7 | 103.6 | 110.3 | 94.4 NM_020193.3 |
| 196.4 | 152.6 | 156.7 | 159.6 NM_170746.2 |
| 110.4 | 139 | 133.4 | 156.4 NM_173573.1 |

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| 80.4 | 87.8 | 82.9 | 85.3 NM_173590.1 |
| 128.2 | 138 | 197.2 | 144.7 NM_212555.1 |
| 97.2 | 85.8 | 87.4 | 85.2 NM_144663.1 |
| 88.9 | 85 | 83.1 | 96.4 NM_173525.1 |
| 91.7 | 88.4 | 87.9 | 94.2 NM_173580.1 |
| 141.9 | 130.3 | 112.3 | 110.8 NM_145013.1 |
| 600.3 | 492.7 | 366.4 | 399.6 NM_152316.1 |
| 108.9 | 127 | 131.4 | 127.9 NM_173589.2 |
| 495.3 | 410 | 330.2 | 271.9 NM_024099.2 |
| 94.2 | 98.7 | 87.2 | 91.3 NM_001003678.1 |
| 113.2 | 109.2 | 106.4 | 104.7 NM_001003678.1 |
| 151.9 | 132.1 | 130.1 | 121 NM_001003677.1 |
| 96.1 | 91 | 91.7 | 98.1 NM_001003676.1 |
| 247.2 | 199.1 | 183.5 | 156.8 NM_014042.1 |
| 96.2 | 102.4 | 93.3 | 88.6 NM_080659.1 |
| 84.8 | 102.7 | 87.7 | 94.9 NM_198498.1 |
| 345 | 376.4 | 360.5 | 389.7 NM_014039.2 |
| 101.9 | 98.6 | 91.5 | 91.6 NM_207428.1 |
| 300.4 | 436.2 | 389.3 | 313.8 NM_032127.1 |
| 120.5 | 98.2 | 88 | 100 NM_024631.1 |
| 97.8 | 94.8 | 90.5 | 89.4 NM_024806.2 |
| 108.9 | 100.3 | 94.3 | 88.3 NM_199124.1 |
| 179.3 | 172.2 | 203.1 | 180.4 NM_199124.1 |
| 89.6 | 95.5 | 88.3 | 94.3 NM_152587.3 |
| 85.6 | 86.6 | 84.7 | 84.4 NM_032930.1 |
| 106.4 | 113.7 | 112.5 | 110.6 NM_019021.1 |
| 89.1 | 82.8 | 70.5 | 82.4 NM_145308.2 |
| 137.3 | 119.8 | 122.8 | 126 NM_173811.2 |
| 92.4 | 87.1 | 77.5 | 87.8 NM_013279.1 |
| 715 | 457.5 | 386.1 | 240.5 NM_021640.2 |
| 96.9 | 100.9 | 93.2 | 104.9 NM_018164.1 |
| 98.6 | 84.3 | 80 | 87 NM_152638.2 |
| 95.7 | 93.5 | 92.5 | 94.2 NM_152261.1 |
| 607.8 | 362.3 | 329.5 | 293 NM_013300.1 |
| 93.5 | 78.9 | 83 | 93.6 NM_032130.1 |
| 354.2 | 359.6 | 360.1 | 316.3 NM_032230.1 |
| 95.8 | 101.9 | 95.9 | 100.9 NM_182530.1 |
| 304.5 | 223.6 | 239.6 | 204.7 NM_001009894.2 |
| 91.3 | 89.1 | 92.8 | 102.2 NM_024953.2 |
| 440.9 | 318.8 | 251.9 | 250.4 NM_032338.2 |
| 387.8 | 357.6 | 303.3 | 272.1 NM_031465.2 |
| 108.8 | 109.6 | 100 | 106.1 NM_032829.1 |
| 125.5 | 141.3 | 137.1 | 157.2 NM_018169.2 |
| 89 | 89.3 | 73.1 | 91.7 NM_182558.1 |
| 80.2 | 79.1 | 78.5 | 79.2 NM_024809.2 |
| 93.6 | 92.3 | 96.4 | 86.8 NM_030572.1 |
| 188.8 | 187 | 176.8 | 190.1 NM_020374.2 |
| 89.5 | 87.3 | 74.5 | 84.3 NM_001031748.1 |
| 84.3 | 76.9 | 81.9 | 80.1 NM_001031748.1 |
| 823 | 682.4 | 615.6 | 438 NM_017822.2 |

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| 75.1 | 82.1 | 72.6 | 78.5 NM_198521.1 |
| 177.7 | 122 | 136.5 | 143.9 NM_022895.1 |
| 442.9 | 354.7 | 319.1 | 284 NM_021934.3 |
| 212.8 | 175.5 | 174 | 140.9 NM_152318.1 |
| 165.8 | 180 | 189.6 | 158.7 NM_152321.1 |
| 404.7 | 430.1 | 405.3 | 305.3 NM_016534.2 |
| 347.9 | 251.8 | 248.8 | 220.9 NM_017915.1 |
| 161.3 | 151.7 | 108 | 135.5 NM_024738.1 |
| 123.9 | 119.8 | 100.2 | 109.1 NM_020375.1 |
| 100.8 | 96.2 | 90.7 | 82.9 NM_152589.1 |
| 405.1 | 390.2 | 360.2 | 249.2 NM_032848.1 |
| 92.9 | 87.6 | 78.8 | 93 NM_153685.2 |
| 99.5 | 88.8 | 74.2 | 86.1 NM_152319.2 |
| 1496.3 | 723.7 | 827.2 | 616.2 NM_138425.2 |
| 85.2 | 98.6 | 87.4 | 92.8 NM_024685.2 |
| 91.8 | 88.4 | 84.9 | 86.9 NM_153022.1 |
| 114.5 | 105 | 90 | 89 NM_175874.2 |
| 82.1 | 84.9 | 78.6 | 92.1 NM_175895.2 |
| 139 | 162.3 | 159.5 | 125.6 NM_032901.2 |
| 90.3 | 98.9 | 99.4 | 83.4 NM_173591.1 |
| 154.6 | 149.4 | 151.4 | 140.5 NM_020456.1 |
| 257.3 | 238.1 | 203.2 | 242.8 NM_022118.3 |
| 108.6 | 98.3 | 92.4 | 85.7 NM_152324.1 |
| 656.8 | 716.3 | 703 | 461.9 NM_025113.1 |
| 89.8 | 82.5 | 77.3 | 92.5 NM_001010897.1 |
| 663.3 | 598.5 | 529.7 | 461.4 NM_025138.3 |
| 533.9 | 478.5 | 397.6 | 409.7 NM_025138.3 |
| 86.9 | 87 | 83.4 | 84.7 NM_025138.3 |
| 115.3 | 131.1 | 121.4 | 137.6 NM_006346.2 |
| 80.7 | 75 | 72.4 | 76.7 NM_152325.1 |
| 215.6 | 175.4 | 174.4 | 139 NM_145061.3 |
| 454.5 | 347.4 | 258.4 | 263.2 NM_024546.3 |
| 1661.4 | 1271.7 | 1251.8 | 770.6 NM_032436.1 |
| 94.4 | 87 | 80.9 | 80.7 NM_007176.1 |
| 549.4 | 318.7 | 265 | 361.1 NM_016475.2 |
| 114.2 | 117.6 | 96.1 | 96.2 NM_017799.2 |
| 682.5 | 914.2 | 887.8 | 679.9 NM_017970.2 |
| 258.7 | 296.7 | 287 | 284.4 NM_199043.1 |
| 122.3 | 119.8 | 115.3 | 112.6 NM_018036.4 |
| 184.8 | 141.7 | 133.8 | 127.2 NM_018139.1 |
| 102.9 | 91.5 | 104 | 91.8 NM_018168.1 |
| 1009.9 | 711.3 | 770.4 | 934.5 NM_018353.3 |
| 322.6 | 234.5 | 227.8 | 236.9 NM_018229.2 |
| 93.4 | 93.3 | 90 | 90.3 NM_018453.2 |
| 1395.8 | 948.6 | 731.8 | 698.2 NM_016468.3 |
| 89.8 | 80.4 | 92 | 87.7 NM_018228.1 |
| 106 | 116.8 | 102.1 | 102.7 NM_017926.2 |
| 164.9 | 181.8 | 156.3 | 171.2 NM_017926.2 |
| 94.5 | 98.8 | 90.2 | 97.2 NM_017924.2 |
| 496.8 | 322.8 | 260.7 | 234.2 XM_945152.1 |

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| 113.9 | 113.7 | 116.2 | 96.9 NM_138360.2 |
| 186.7 | 139.7 | 134.4 | 116.7 NM_016049.3 |
| 160.4 | 120.1 | 140.1 | 107.5 NM_020195.1 |
| 162.6 | 129.4 | 116.6 | 110.9 NM_080664.1 |
| 164.2 | 121.7 | 102.7 | 121.8 NM_016472.3 |
| 382.3 | 258.4 | 211 | 218.9 NM_175748.1 |
| 605.5 | 484 | 364.7 | 358.3 NM_018108.2 |
| 89.1 | 87.9 | 74.4 | 86.7 NM_175748.1 |
| 533.1 | 508.9 | 557.1 | 335.4 NM_018335.2 |
| 224.2 | 170.8 | 145.3 | 123.7 NM_022067.2 |
| 652.7 | 514.3 | 524 | 443.5 NM_022495.3 |
| 83.8 | 87.9 | 85.8 | 93.9 NM_024558.1 |
| 281 | 190.9 | 185.5 | 149.8 NM_024558.1 |
| 281.6 | 204.4 | 211.5 | 187.6 NM_024558.1 |
| 231 | 213.8 | 213.8 | 168 NM_024633.2 |
| 102.3 | 93.2 | 85.3 | 94 NM_001042430.1 |
| 87 | 83 | 87.3 | 89.5 NM_024643.1 |
| 357.2 | 310.6 | 260.8 | 219 NM_032490.3 |
| 230.9 | 181.1 | 148.1 | 161.2 NM_145231.2 |
| 183.9 | 145.2 | 133.8 | 132.8 NM_152446.2 |
| 440.4 | 497.7 | 493.9 | 384 NM_138288.2 |
| 88.9 | 87.3 | 86.8 | 82.7 NM_138791.1 |
| 237.2 | 162.4 | 161.7 | 182.3 NM_144581.1 |
| 84.6 | 79.1 | 78.3 | 78.8 NM_001008726.1 |
| 112.1 | 104.3 | 103.3 | 90.6 NM_001008726.1 |
| 124.9 | 109.7 | 101.2 | 105 NM_080666.2 |
| 162.9 | 145.8 | 130.8 | 136.1 NM_032714.1 |
| 88.4 | 95.2 | 91.1 | 89.3 NM_138344.2 |
| 1926.1 | 2586.2 | 3066.7 | 3209.3 NM_032374.2 |
| 95.4 | 87.3 | 79.6 | 88.4 NM_032135.2 |
| 10111.1 | 6985.9 | 5480.9 | 5432.7 NM_031210.3 |
| 559.3 | 589 | 605.8 | 433.1 NM_024952.4 |
| 109.4 | 100.6 | 95.1 | 95.4 NM_024764.2 |
| 90.5 | 81.3 | 83.7 | 85.7 NM_020181.1 |
| 722.5 | 582.4 | 442.3 | 432 NM_016039.1 |
| 91.4 | 92.8 | 91.5 | 79.2 NM_001081002.1 |
| 312.4 | 183 | 173 | 175.6 NM_024644.1 |
| 135.1 | 105.7 | 97.8 | 89.5 NM_152307.1 |
| 2334.9 | 2212.9 | 2284.3 | 777.9 NM_022489.2 |
| 205.7 | 205.2 | 188.1 | 174.7 NM_022489.1 |
| 106.5 | 101.7 | 95.5 | 87.1 NR_002937.1 |
| 1150.8 | 974.3 | 764.7 | 732.3 NM_004894.1 |
| 119.8 | 107 | 111 | 103.8 NM_174913.1 |
| 4864.8 | 5427.4 | 8599.9 | 5338.8 NM_173607.2 |
| 125.7 | 111.6 | 106.2 | 95.9 NM_173607.2 |
| 117.4 | 115.3 | 98.9 | 103.3 NM_173607.2 |
| 160.4 | 149.3 | 143.9 | 132.3 NM_001017923.1 |
| 96.1 | 98.7 | 102.6 | 98.9 NM_181533.3 |
| 91.7 | 85.7 | 81.7 | 89.8 NM_181533.3 |
| 968.8 | 721.6 | 653.1 | 544.4 NM_144578.2 |

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| 88.1 | 87.7 | 94.1 | 77.7 NM_001001872.2 |
| 91.9 | 85.9 | 83.6 | 86.7 NM_174978.1 |
| 131.5 | 131.3 | 128.8 | 129.5 NM_024496.2 |
| 90.3 | 80.9 | 83.2 | 83.3 NM_194278.3 |
| 222.7 | 190.6 | 192.5 | 145.4 NM_194278.3 |
| 296.9 | 282.6 | 268 | 274.8 NM_194278.2 |
| 93.9 | 85.4 | 87.4 | 85.7 NM_152445.1 |
| 84.3 | 90.9 | 80.3 | 88.5 NM_025057.1 |
| 198.4 | 167 | 160.8 | 157.4 NM_001024674.1 |
| 94.7 | 107.4 | 99.8 | 85.2 NM_152777.2 |
| 105.4 | 101.6 | 92 | 94.1 NM_152592.2 |
| 84.2 | 86.3 | 81.8 | 85.5 NM_172365.1 |
| 87.6 | 86.8 | 80.5 | 83.5 NM_173526.1 |
| 157 | 164.6 | 151.7 | 144.5 NM_017791.1 |
| 87.8 | 87.7 | 79.4 | 83.7 NM_207117.2 |
| 93.3 | 92 | 85 | 89.4 NM_001077594.1 |
| 92.9 | 95.9 | 84.7 | 87.2 XM_941093.1 |
| 158.4 | 123.5 | 119.8 | 103.9 NM_174891.2 |
| 81.8 | 81.6 | 91.2 | 86.4 NM_173846.3 |
| 326 | 219.4 | 223.6 | 137.2 NM_173608.1 |
| 1667.9 | 2381.8 | 2984.3 | 2301.7 NR_002808.1 |
| 108.1 | 111.6 | 96.1 | 105.8 NM_014828.1 |
| 320.3 | 261.3 | 283.5 | 171.9 NM_021944.1 |
| 421 | 335.8 | 292.6 | 258.3 NM_017815.1 |
| 2995.6 | 2610.8 | 2187.4 | 2092.6 NM_016304.2 |
| 323.6 | 317.9 | 287.7 | 245.7 NM_020447.2 |
| 82.5 | 83.7 | 78.7 | 83.4 NM_018958.1 |
| 109 | 96.1 | 97.6 | 108.3 NM_001005269.1 |
| 102.2 | 105.3 | 106.5 | 98.7 NM_001005267.1 |
| 80.4 | 93.3 | 71.4 | 82.5 NM_173609.2 |
| 293.4 | 198.1 | 155.5 | 146.9 NM_033286.2 |
| 3837 | 2961.1 | 2339.4 | 2019.7 NM_020154.2 |
| 83.8 | 88.6 | 83.2 | 77 NM_173528.1 |
| 94.8 | 77.5 | 83.6 | 82.3 NM_152335.1 |
| 105.8 | 110.2 | 91.4 | 90.7 NM_024713.1 |
| 87.9 | 87.4 | 76.6 | 77.9 NM_153040.1 |
| 80.4 | 81.6 | 80.1 | 84.6 NM_152647.1 |
| 90.7 | 95.1 | 80.2 | 85.6 NM_175898.2 |
| 139.8 | 109.6 | 115.9 | 108 NM_182616.1 |
| 203.4 | 249.7 | 207.5 | 146.9 NM_015492.3 |
| 187.8 | 173.7 | 176.1 | 163.5 NM_144597.1 |
| 265.2 | 195 | 159 | 174.1 NM_032499.3 |
| 178.2 | 194.9 | 166.5 | 136.6 NM_152259.2 |
| 92.8 | 83.4 | 80.9 | 88.4 NM_152448.1 |
| 105.3 | 120 | 98.7 | 92.3 NM_030800.1 |
| 302.1 | 204.2 | 190.3 | 165.4 NM_030800.1 |
| 99.7 | 94.4 | 84.2 | 87.6 NM_032413.2 |
| 82.6 | 82.3 | 87.2 | 84.4 NM_032413.2 |
| 94 | 81.9 | 77.8 | 87.9 NM_197955.1 |
| 89.6 | 91.8 | 89.5 | 93.1 NM_030944.1 |

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| 464.7 | 470.1 | 418 | 358.6 NM_023933.1 |
| 93.9 | 99.3 | 92.8 | 89.5 NM_173476.2 |
| 88 | 80.3 | 79.2 | 84.6 NM_173476.2 |
| 440.9 | 229.3 | 236.2 | 235.8 NM_023076.2 |
| 94.5 | 93.9 | 84.9 | 88.8 NM_001214.2 |
| 88.6 | 87.8 | 83.4 | 91 NM_024600.1 |
| 3748.2 | 2437.7 | 2160.9 | 1542.1 NM_024571.2 |
| 179.1 | 145.5 | 145.6 | 126.5 NM_144570.2 |
| 78 | 80.7 | 87.4 | 81.4 NM_001077350.1 |
| 630.4 | 483.8 | 503.2 | 266.5 NM_001039476.1 |
| 472 | 343.6 | 335 | 222.5 NM_024731.2 |
| 81.5 | 84.5 | 94.3 | 85.8 NM_033201.1 |
| 90.4 | 90.6 | 86.4 | 97.2 NM_152337.1 |
| 384.7 | 302.6 | 369.1 | 185.6 NM_032140.1 |
| 123.7 | 109.2 | 96.5 | 94.7 NM_013399.1 |
| 110.4 | 103.9 | 103.8 | 97.6 NM_032269.3 |
| 335.4 | 297.2 | 269.5 | 167.2 NM_024516.2 |
| 98.9 | 95.7 | 85.2 | 89.8 NM_175900.2 |
| 91 | 87.6 | 89.4 | 86.9 NM_153025.1 |
| 475.4 | 493.7 | 442 | 476.5 NM_025082.1 |
| 361.3 | 345.4 | 253.7 | 161.9 NM_024598.2 |
| 1405 | 1466.8 | 1466.7 | 612 NM_022744.1 |
| 932.4 | 561.4 | 490.5 | 418.4 NM_018455.3 |
| 2913.2 | 1833.7 | 1640.7 | 1206.1 NM_020188.2 |
| 3613.6 | 1890.7 | 1744.9 | 1919.5 NM_144600.1 |
| 97.5 | 98.6 | 91.9 | 95.6 NM_153261.3 |
| 162.2 | 203.9 | 219.5 | 147.5 NM_004913.1 |
| 93.7 | 81.2 | 75.9 | 81.4 NM_144602.2 |
| 715.5 | 421.8 | 463.4 | 351.1 NM_013242.2 |
| 561.5 | 475.4 | 411.3 | 407 NM_032039.1 |
| 354.9 | 364.9 | 304.6 | 268.8 NM_016080.2 |
| 91.2 | 91.1 | 76.5 | 89.2 NM_020914.3 |
| 101.9 | 92.8 | 86.5 | 88.2 NM_030630.1 |
| 212.6 | 211.3 | 169.2 | 175.7 NM_152464.1 |
| 108.4 | 109.3 | 105.6 | 97.6 NM_032339.3 |
| 96.2 | 100.6 | 95.6 | 91.5 NM_001010855.1 |
| 119.1 | 110.5 | 108 | 93.6 NM_024052.4 |
| 705.7 | 873.2 | 807.9 | 584.6 NM_018428.2 |
| 112.3 | 107.5 | 97.5 | 106 NM_024683.2 |
| 11954 | 10113.9 | 10415 | 6936 NM_152350.1 |
| 106 | 94.4 | 91.8 | 89.1 NM_152343.1 |
| 82.2 | 89.1 | 82.5 | 91.1 XR_000576.1 |
| 105.7 | 93.3 | 91 | 90.9 NM_001038704.1 |
| 154.3 | 142.2 | 122.7 | 121.6 NM_020233.3 |
| 657.5 | 472.4 | 423.2 | 373.8 NM_174893.1 |
| 90.8 | 93.4 | 85.6 | 88.3 NM_145272.2 |
| 590.1 | 416.7 | 440.5 | 217.5 NM_024032.2 |
| 89.3 | 84 | 97.4 | 87 NM_182564.1 |
| 117.8 | 136.8 | 150.4 | 132.3 NM_178519.2 |
| 120.7 | 108.8 | 121.1 | 117.3 NM_144679.1 |

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| 84.2 | 94.5 | 92 | 90.3 NM_152347.3 |
| 847.3 | 475.2 | 437.9 | 401.4 NM_181656.1 |
| 603.8 | 410.4 | 361.8 | 335.8 XM_942508.1 |
| 109.2 | 106.8 | 95.5 | 81.7 NM_181656.1 |
| 95 | 93.9 | 91.5 | 93.8 NM_017622.1 |
| 1354.2 | 1423.7 | 1540.2 | 762.7 NM_152766.2 |
| 780.2 | 639.5 | 528.1 | 505.4 NM_001033046.1 |
| 277.8 | 331.2 | 274.6 | 252.6 NM_018182.1 |
| 94.4 | 108.4 | 99 | 105.8 NM_181707.1 |
| 167.1 | 157.7 | 142.1 | 150.6 NM_178542.3 |
| 91.2 | 92.4 | 95.7 | 84.1 NM_152781.2 |
| 151.1 | 157.7 | 169.1 | 125.7 XM_938283.1 |
| 115.1 | 117 | 114.7 | 90.3 NM_025099.2 |
| 79.4 | 78.3 | 79.5 | 78.3 NM_152466.1 |
| 1084.3 | 1046.1 | 1137.4 | 542.3 NM_025161.3 |
| 165.6 | 141.7 | 124.4 | 115.3 NM_018149.5 |
| 118.3 | 107.3 | 108.3 | 99.6 NM_017928.1 |
| 109.6 | 118.1 | 103.2 | 99 NM_175734.3 |
| 121.9 | 102.1 | 104 | 109 NM_022344.2 |
| 103.3 | 93.7 | 100.8 | 103.6 NM_207387.1 |
| 89.9 | 81.8 | 77.4 | 80.2 NM_152460.2 |
| 84.7 | 87 | 83.1 | 86.7 NM_173625.3 |
| 251.2 | 214.9 | 190.6 | 169.5 NM_018405.2 |
| 208.4 | 236.9 | 172.1 | 185.4 NM_017941.3 |
| 123 | 108.9 | 100.6 | 107.8 NM_203413.1 |
| 205 | 206.2 | 160.4 | 154.4 NM_015362.3 |
| 138.5 | 133.1 | 126.1 | 110.9 NM_203413.1 |
| 90.2 | 78.9 | 79.8 | 80.3 NM_203414.1 |
| 89.5 | 95.2 | 91 | 87.4 NM_199339.2 |
| 205.3 | 230.8 | 216.9 | 164.2 NM_018553.1 |
| 88.4 | 87.1 | 76.1 | 89 NM_181483.2 |
| 364.7 | 329.2 | 314.9 | 285.2 NM_015476.2 |
| 80.7 | 91.2 | 82.5 | 93 NM_024781.1 |
| 223.6 | 213 | 220 | 184 NM_153211.1 |
| 210.7 | 187.7 | 183.8 | 154.1 NM_152352.1 |
| 306.4 | 301.4 | 315.1 | 261.4 NM_031446.3 |
| 248 | 206.2 | 195.8 | 190.8 NM_024805.1 |
| 250.3 | 215.2 | 174.6 | 158.1 NM_145060.1 |
| 1190.9 | 1122.6 | 1067.7 | 871.6 NM_001008239.1 |
| 80.1 | 74.7 | 81 | 78.1 NM_145055.2 |
| 79.3 | 70.2 | 90.7 | 80.6 NM_173629.1 |
| 95.3 | 81.4 | 86.9 | 86.7 NM_198995.1 |
| 353.7 | 348.6 | 351.6 | 255.5 NM_194281.2 |
| 112.5 | 113.9 | 120.5 | 104.5 NM_032933.3 |
| 83.3 | 85.1 | 85.1 | 83.7 XM_058931.9 |
| 94.2 | 85.6 | 80.8 | 90.2 NM_001044369.1 |
| 217.2 | 172.8 | 170.5 | 138 NM_173529.3 |
| 2108.3 | 1805.7 | 1526.4 | 1291.3 NM_014177.1 |
| 666.3 | 392.1 | 375.5 | 376.1 NM_001012716.1 |
| 478 | 438.5 | 368.3 | 324.8 NM_013326.2 |

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| 1720 | 1069.7 | 996.5 | 686.1 NM_019107.3 |
| 95.6 | 84 | 96.6 | 98.5 NM_001031726.1 |
| 202 | 145.5 | 148.5 | 120.7 NM_001031726.1 |
| 460.7 | 341.7 | 334.1 | 216.4 NM_031448.2 |
| 110.9 | 89.9 | 77.4 | 82.9 NM_001031726.1 |
| 103.6 | 84.9 | 98.6 | 98.6 NM_021185.3 |
| 88.5 | 94.9 | 87.7 | 81.6 NM_152474.2 |
| 92.7 | 88.1 | 78.9 | 88.7 NM_182577.1 |
| 490.3 | 415.2 | 309.7 | 323.4 NM_134447.1 |
| 2768 | 2212.8 | 1802.4 | 1526.4 NM_134447.1 |
| 102.6 | 117.3 | 94.6 | 105 NM_033513.2 |
| 124.2 | 111.2 | 107.2 | 103 NM_173481.2 |
| 904.2 | 660 | 589.7 | 475.6 NM_138774.2 |
| 125.4 | 116.1 | 109.3 | 99.6 NM_152480.1 |
| 370.4 | 257.9 | 216.4 | 180.6 NM_017914.2 |
| 306.9 | 241.5 | 216.9 | 199 NM_152482.1 |
| 85.5 | 91.5 | 89.2 | 82.6 NM_152769.1 |
| 95.4 | 100.4 | 88 | 88 NM_001042680.1 |
| 144.6 | 149.7 | 133.9 | 129.3 NM_174983.2 |
| 163 | 139.7 | 129.1 | 147.2 NM_001080543.1 |
| 117.8 | 117.7 | 100.2 | 101.7 NM_001080543.1 |
| 111.6 | 103 | 97.7 | 93.8 NM_174947.2 |
| 21246.2 | 26244.8 | 27067 | 24882.9 NM_001014373.1 |
| 88.8 | 85.3 | 72.2 | 80.3 NM_033520.1 |
| 76.8 | 79.1 | 78.2 | 86.4 NM_152771.1 |
| 86.9 | 97.8 | 104.7 | 97.2 NM_198532.1 |
| 89.2 | 92.4 | 91.5 | 86.4 NM_001031735.1 |
| 102.7 | 92.1 | 87.5 | 95.6 NM_001039846.1 |
| 1286.8 | 1277.8 | 1236.3 | 683.6 NM_182498.2 |
| 94.4 | 88 | 85.7 | 91.9 NM_012109.1 |
| 188.1 | 218.2 | 177 | 182.1 NM_152266.1 |
| 505.8 | 280.7 | 228.1 | 209.4 NM_199250.1 |
| 94.4 | 92.4 | 94.3 | 91.1 NM_001039887.1 |
| 206.8 | 235.2 | 210.2 | 209.1 NM_001033026.1 |
| 351 | 470.5 | 380.5 | 376.9 NM_001033026.1 |
| 1201.8 | 737.9 | 665.4 | 676.2 NM_015168.1 |
| 101.6 | 90.1 | 84.8 | 94.6 NM_006333.2 |
| 84.9 | 79.2 | 78.7 | 84.3 NM_173177.1 |
| 131.1 | 116.6 | 121.2 | 125.8 NM_020156.1 |
| 90.3 | 81.1 | 75.7 | 84.8 NM_152692.3 |
| 170.6 | 137.4 | 153.5 | 145.6 NM_001011551.1 |
| 93 | 90.8 | 94.5 | 85.6 NM_001012970.1 |
| 142.3 | 179.8 | 167.5 | 170.5 NM_173807.2 |
| 92.7 | 91.5 | 86.4 | 82.6 NM_206837.1 |
| 97 | 91.1 | 88.8 | 94.4 NM_206837.1 |
| 90.1 | 98.2 | 87.3 | 88.8 NM_145047.3 |
| 79 | 87.7 | 87.6 | 83.8 NM_001006945.1 |
| 153 | 112.9 | 108.7 | 121 NM_018372.3 |
| 102 | 97.6 | 92.5 | 80.2 NM_001039517.1 |
| 90.9 | 91.5 | 82.9 | 91.7 NM_139240.2 |

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| 789.7 | 307.2 | 242.7 | 168.3 | NM_018265.1 |
| 195.5 | 207.7 | 174.1 | 147.9 | NM_014388.5 |
| 502.7 | 503.4 | 487.7 | 372.8 | NM_024595.1 |
| 105.9 | 98 | 87.9 | 97.8 | NM_024595.1 |
| 438 | 466.8 | 364.9 | 322.4 | XM_941120.1 |
| 423.3 | 320.6 | 267.1 | 256.2 | NM_017850.1 |
| 87.2 | 91.1 | 79.8 | 90.2 | NM_178550.3 |
| 100.5 | 96.5 | 93.7 | 95.5 | NM_182581.1 |
| 560 | 390.4 | 370.6 | 222.6 | NM_018186.2 |
| 102 | 95.4 | 85.6 | 85.4 | NM_024676.3 |
| 80.9 | 75 | 79.9 | 69.2 | NM_021179.1 |
| 119.8 | 159.1 | 130.9 | 131.1 | NM_024709.2 |
| 94.6 | 91.9 | 91.4 | 98.2 | NM_023938.4 |
| 83.8 | 79.6 | 82.6 | 77.3 | NM_182623.1 |
| 79.9 | 80.6 | 82.4 | 74.9 | NM_199343.1 |
| 676.6 | 393.5 | 347.1 | 272.8 | NM_020141.3 |
| 789 | 551.6 | 450.6 | 390.5 | NM_016076.2 |
| 195.6 | 207.3 | 173.7 | 168.4 | NM_198446.1 |
| 822.4 | 988.5 | 932.6 | 583 | NM_017887.1 |
| 440.9 | 290.8 | 246.4 | 264.3 | NM_032018.4 |
| 218.2 | 159.5 | 154 | 159.7 | NM_032018.4 |
| 140.8 | 112.3 | 102.6 | 102.9 | NM_001010984.1 |
| 85.5 | 83.1 | 88.3 | 82.5 | NM_182766.2 |
| 88.9 | 85.1 | 83.6 | 80.2 | NM_144696.3 |
| 95.5 | 82.8 | 84.5 | 89.8 | NM_173507.1 |
| 1176.4 | 1185.1 | 926.3 | 758.4 | NM_020362.2 |
| 91.7 | 96.4 | 84.2 | 87.5 | NM_025063.1 |
| 3072.6 | 2151.3 | 1725 | 1739.9 | NM_152379.2 |
| 297.1 | 198 | 205.3 | 164.3 | NM_024037.1 |
| 92.1 | 78.5 | 81.1 | 88.3 | NM_030933.1 |
| 96.6 | 98.8 | 89.5 | 91.1 | NM_001010913.2 |
| 98 | 94.1 | 83.3 | 95.5 | NM_001013674.1 |
| 190.8 | 183.1 | 156.3 | 153.8 | NM_053052.2 |
| 492.3 | 461.7 | 411.3 | 296.4 | NM_015609.1 |
| 93.7 | 90.6 | 82.4 | 83.5 | NM_001012425.1 |
| 200.4 | 191 | 160.2 | 179.3 | NM_022756.3 |
| 93.9 | 95.2 | 77.9 | 79.8 | NM_145278.1 |
| 93.3 | 92.6 | 85.9 | 95.3 | NM_001032363.1 |
| 92.9 | 90 | 76.2 | 78.2 | NR_003242.1 |
| 722.4 | 390.4 | 321.4 | 322.6 | NM_033319.1 |
| 86.2 | 78.2 | 86.5 | 83.6 | NM_033418.1 |
| 98.9 | 83 | 77.8 | 80.2 | NM_182579.1 |
| 82.2 | 87 | 88 | 88 | NM_152290.1 |
| 185.9 | 179.6 | 189.1 | 156.6 | NM_017891.2 |
| 155.5 | 143.2 | 147.6 | 116.2 | NM_032125.1 |
| 2185.3 | 1749.8 | 1453.4 | 803.6 | NM_174896.2 |
| 281.6 | 269.3 | 249.9 | 157.1 | NM_023077.1 |
| 1018.9 | 740.6 | 752.1 | 321.8 | NM_018150.2 |
| 100.3 | 97.5 | 97.4 | 112.9 | NM_024603.1 |
| 135 | 126.3 | 116.6 | 125.6 | NM_024544.1 |

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| 95.3 | 91.1 | 83.9 | 91.8 NM_001004303.2 |
| 259.7 | 244.8 | 163.3 | 194 NM_138467.1 |
| 85.6 | 92.2 | 84.2 | 87.8 NM_152365.1 |
| 95.9 | 90.2 | 88.3 | 104 NM_001002912.2 |
| 93.9 | 106.1 | 98.9 | 94 NM_198547.1 |
| 497 | 638.1 | 704.5 | 739.1 NM_022774.1 |
| 98.8 | 97.9 | 95.3 | 101.2 NM_152607.1 |
| 90.1 | 90.3 | 80.4 | 86.8 NM_001010922.1 |
| 102.6 | 91.8 | 93.1 | 94.6 NM_001029946.1 |
| 90 | 88 | 80.8 | 77.4 NM_176782.1 |
| 644.4 | 701 | 588 | 600 NM_017953.2 |
| 115 | 106 | 95.4 | 109.4 NM_144627.1 |
| 96.3 | 95.5 | 103.2 | 95.1 NM_019099.3 |
| 88.5 | 82.4 | 88.4 | 84.7 NM_198926.1 |
| 110 | 107.1 | 106.4 | 110.5 NM_198926.1 |
| 253.5 | 214 | 171.5 | 166.1 NM_001007544.1 |
| 102.2 | 89 | 89 | 91.3 NM_198545.3 |
| 124.3 | 120 | 123.7 | 120.5 NM_173795.2 |
| 91.7 | 80.8 | 95.4 | 72.1 NM_001010979.1 |
| 1587.6 | 953 | 855.2 | 598.2 NM_052965.1 |
| 106.8 | 91.6 | 86.9 | 80.2 NM_001013615.1 |
| 98.1 | 82 | 89.5 | 84.8 NM_001013625.2 |
| 218 | 231 | 203.3 | 165.6 NM_032800.1 |
| 855.9 | 661 | 724.3 | 333.3 NM_006589.2 |
| 104.8 | 92.4 | 89.5 | 93.4 NM_006589.2 |
| 126.4 | 125.1 | 125.8 | 107.7 NM_198264.1 |
| 105.6 | 89.4 | 85.7 | 97.7 NM_178122.2 |
| 112.2 | 121.5 | 125 | 112.3 NM_030806.3 |
| 95.5 | 87.2 | 90 | 97.2 NM_182517.1 |
| 672.3 | 662.8 | 642.6 | 430.3 NM_022083.1 |
| 91.4 | 87.2 | 82 | 95.9 NM_030934.3 |
| 85.4 | 97.6 | 83.9 | 90.8 NM_017673.4 |
| 101.9 | 77.8 | 83 | 86.2 NM_017847.3 |
| 296.8 | 354 | 275 | 271.1 NM_001012985.1 |
| 98 | 79.7 | 79.6 | 82.9 NM_199351.1 |
| 501.5 | 360.8 | 311.5 | 214.5 NM_016183.2 |
| 83.1 | 90.2 | 82.8 | 89.7 NM_001080494.1 |
| 758 | 589.7 | 564.5 | 491.3 NM_024319.2 |
| 77.9 | 81.6 | 81 | 76.9 NM_183059.1 |
| 3511.9 | 2595.8 | 2285.1 | 1912.9 NM_138391.3 |
| 85.8 | 98.2 | 84.5 | 91.7 NM_004848.1 |
| 2040.8 | 1941.9 | 1745.8 | 1578.8 NM_016126.1 |
| 103.6 | 104.9 | 91.6 | 104.3 NM_019060.1 |
| 799 | 690.1 | 542.8 | 682.9 NM_015449.1 |
| 414.7 | 266.8 | 212 | 251.7 NM_015449.1 |
| 86.7 | 89.5 | 86.5 | 86.3 NM_001025231.1 |
| 2384.5 | 1530 | 1370.9 | 1148.9 NM_015471.2 |
| 97.4 | 81.6 | 88.6 | 95.9 NM_032126.1 |
| 1513.3 | 1710 | 1625.2 | 1057.2 NM_024097.1 |
| 127.2 | 108.5 | 99.4 | 101.4 NM_144697.2 |

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| 831.1 | 706.9 | 727.7 | 556 NM_198077.1 |
| 439.2 | 502 | 462.7 | 379.9 NM_001024594.1 |
| 4224.5 | 2629.3 | 2403.8 | 1844.5 NM_024579.1 |
| 612 | 561.8 | 542.4 | 460.9 NM_152608.2 |
| 153.6 | 117.3 | 113.3 | 141.3 NM_017860.3 |
| 1163.6 | 864.3 | 691.8 | 723.1 NM_032324.1 |
| 125.1 | 105.4 | 98.1 | 101.7 NM_144695.1 |
| 2476.5 | 1706.4 | 1486.6 | 1143.8 NM_144584.1 |
| 628.1 | 786.8 | 690.1 | 626.4 NM_023015.3 |
| 92.8 | 86.8 | 86.7 | 90.7 NM_006365.1 |
| 99.8 | 88 | 81.1 | 89.4 NM_152763.3 |
| 155.9 | 158.9 | 195.7 | 193 NM_020317.3 |
| 84.8 | 79.8 | 84 | 87.9 NM_178840.2 |
| 89.1 | 82.9 | 69.2 | 84.1 NM_152610.1 |
| 473.5 | 404.4 | 420.9 | 366 NM_015997.2 |
| 205.5 | 209.1 | 189.6 | 170.6 NM_001010867.1 |
| 1315.9 | 1026.4 | 872.8 | 760.6 NM_152609.1 |
| 242.3 | 181.6 | 212.8 | 168.1 NM_015434.1 |
| 210.8 | 147.1 | 123 | 108.6 NM_152485.2 |
| 85.7 | 88.6 | 91.4 | 85.8 NM_018252.1 |
| 121.2 | 136.3 | 120.6 | 111.9 NM_173509.2 |
| 737.3 | 580.2 | 588.9 | 390.1 NM_015607.2 |
| 108.7 | 107.1 | 103.1 | 101.4 NM_018166.1 |
| 382.4 | 501.1 | 465.6 | 375.3 NM_024813.1 |
| 189.3 | 239.8 | 199.3 | 177.5 NM_153035.1 |
| 129.9 | 123.2 | 135.1 | 125.7 NM_001012960.1 |
| 109.5 | 122.6 | 112.8 | 131.7 NM_001012961.1 |
| 101.2 | 109.3 | 97.8 | 97.2 NM_182518.2 |
| 926.7 | 695.6 | 850.3 | 406.8 NM_144580.1 |
| 397.9 | 336.6 | 322.4 | 307.4 NM_182533.2 |
| 88.9 | 87 | 83.5 | 88.4 NM_152377.1 |
| 89.7 | 102.2 | 93.6 | 95.3 NM_181643.2 |
| 94.8 | 83.2 | 89.2 | 84.6 NM_030907.2 |
| 83.6 | 70.9 | 72.8 | 78.1 NM_014283.2 |
| 84.2 | 93.7 | 99.4 | 88 NM_016227.1 |
| 93.7 | 93.9 | 80.6 | 94.2 NM_014283.2 |
| 85.1 | 78.2 | 82.2 | 83.2 NM_032648.1 |
| 93.4 | 84.3 | 78.8 | 87.8 NM_019118.3 |
| 98.3 | 93.2 | 87.6 | 102.1 NM_144702.1 |
| 99.8 | 94.4 | 93.3 | 94.3 NM_032884.2 |
| 84 | 78.2 | 88.9 | 87 NM_001003665.1 |
| 110.9 | 102.8 | 87.3 | 104.7 NM_145257.2 |
| 550.8 | 453.7 | 424.7 | 485.4 NM_032705.3 |
| 86.3 | 85.7 | 82.6 | 89.4 NM_001012274.1 |
| 91.5 | 111.8 | 80.5 | 95.5 NM_015991.1 |
| 97.2 | 84.7 | 84.2 | 92 NM_000491.2 |
| 3043.1 | 2007.1 | 1605.3 | 1491.6 NM_001212.3 |
| 100.2 | 99.8 | 82.4 | 90.6 NM_172369.2 |
| 136.1 | 143.5 | 134.2 | 131.8 NM_023925.3 |
| 124.1 | 170.7 | 144.2 | 163.8 NM_023925.3 |

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| 107.2 | 103.2 | 115.6 | 107.2 XM_371208.3 |
| 110.3 | 101.9 | 98.2 | 100 NM_006688.3 |
| 91.5 | 97.6 | 100 | 99.1 NM_182528.1 |
| 92.4 | 86.1 | 85.9 | 90.2 NM_001010908.1 |
| 88.4 | 95.9 | 86.8 | 83.9 NM_001008223.1 |
| 2985.9 | 1909.7 | 1744.2 | 1237.7 NM_012072.2 |
| 101.1 | 103.1 | 100.1 | 94 NM_198593.1 |
| 83.1 | 77.3 | 78.4 | 84.8 NM_198594.1 |
| 80.8 | 80.2 | 76 | 80.6 NM_030968.2 |
| 98 | 97.4 | 86.6 | 97.3 NM_031908.3 |
| 97.1 | 88.1 | 89.3 | 98.4 NM_181435.4 |
| 77.8 | 84.3 | 78.2 | 78.7 NM_181435.4 |
| 86.1 | 95.1 | 90.4 | 89.1 NM_031909.1 |
| 75.1 | 86.9 | 75.2 | 85.5 NM_015645.2 |
| 86.9 | 88.6 | 94.5 | 90.1 NM_031910.3 |
| 86.5 | 98.9 | 99.5 | 89.8 NM_031910.3 |
| 98.4 | 90.7 | 86.6 | 85.9 NM_182486.1 |
| 94 | 86.7 | 88.6 | 88 NM_031911.3 |
| 86.9 | 93 | 83.1 | 88.5 NM_207419.1 |
| 93.2 | 88.5 | 87.1 | 91.3 NM_001733.4 |
| 121.3 | 177.1 | 176.4 | 149.2 NM_016546.1 |
| 93.2 | 95 | 89.9 | 81.2 NM_201442.1 |
| 90 | 89.2 | 88.7 | 90.9 NM_001734.2 |
| 114.9 | 182.2 | 165.9 | 155.4 NM_000063.3 |
| 88.1 | 94.1 | 79.8 | 89.2 NM_014477.2 |
| 1557.5 | 2360.6 | 2461.6 | 1240.8 NM_032883.1 |
| 97.1 | 91.3 | 90 | 89.6 NM_080607.1 |
| 968.6 | 837.5 | 834.3 | 798.8 NM_012261.2 |
| 120.9 | 109 | 129.1 | 134.4 NM_001012971.2 |
| 113.9 | 132.9 | 135.4 | 128.9 NM_001013646.2 |
| 139.4 | 203.9 | 168 | 226.9 NM_080821.1 |
| 1829.4 | 1619.7 | 1568.2 | 1172.1 NM_017896.2 |
| 1124.5 | 832.3 | 596.7 | 621.5 NM_016470.6 |
| 80.4 | 77 | 81.8 | 79.9 NM_080616.1 |
| 103.7 | 90.3 | 87.7 | 94.7 NM_033197.2 |
| 524.9 | 514.7 | 438.2 | 289.3 NM_023935.1 |
| 333.2 | 393.9 | 360.4 | 360 NM_199181.2 |
| 83.7 | 84 | 80.9 | 87.2 NM_199181.2 |
| 94.8 | 88.5 | 92 | 94.8 NM_080628.1 |
| 159.3 | 149.8 | 158.3 | 126.4 NM_018152.2 |
| 421.4 | 400.8 | 351 | 317.7 NM_024331.3 |
| 216 | 225.9 | 203 | 164 NM_024331.2 |
| 89.3 | 85.2 | 93.2 | 88.3 NM_178468.2 |
| 497 | 251.8 | 190.1 | 176.4 NM_030919.1 |
| 92.4 | 90.5 | 96.5 | 91.8 NM_213631.1 |
| 109.4 | 117.3 | 96.4 | 110.9 NM_213631.1 |
| 96.6 | 81.6 | 87.5 | 95.7 NM_152503.2 |
| 91 | 87.6 | 90.6 | 85.5 NM_001033086.1 |
| 93.7 | 81.5 | 77.5 | 92.1 NM_001033087.1 |
| 98.5 | 85.9 | 85.4 | 85.3 NM_001024675.1 |

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| 95 | 88.8 | 81.9 | 83.4 NM_080622.2 |
| 171 | 169.6 | 132.9 | 147 NM_012469.2 |
| 103.9 | 105.2 | 99.1 | 106 NM_080739.2 |
| 100.1 | 84.4 | 82.9 | 82.1 NM_001080472.1 |
| 89 | 89 | 79.4 | 88.5 NM_080825.2 |
| 224.2 | 176.4 | 200.6 | 189.4 NM_024299.2 |
| 91.3 | 84.3 | 71.4 | 76.9 NM_080833.1 |
| 90.6 | 92.8 | 84.8 | 87.4 NM_080834.1 |
| 1086.8 | 837.1 | 718.8 | 562.4 NM_019095.3 |
| 101.1 | 100.7 | 91.4 | 95.4 NM_080625.2 |
| 94.5 | 81.8 | 86.5 | 90.7 NM_033421.2 |
| 89.8 | 99.8 | 102 | 100.1 NM_033421.2 |
| 84.5 | 81.6 | 78.5 | 83.8 NM_080608.3 |
| 99.1 | 91.7 | 79.7 | 85.2 NM_178463.2 |
| 435.3 | 340.1 | 297.8 | 281.9 NM_024918.2 |
| 79.8 | 80.7 | 71.6 | 87.8 XM_940057.1 |
| 99.5 | 90.1 | 89.8 | 91.5 NM_178457.1 |
| 1443 | 1209.9 | 1159.6 | 977.1 NM_022106.1 |
| 93.3 | 99.3 | 83.5 | 88.2 NM_178477.2 |
| 92.6 | 81.6 | 79.8 | 89.6 NM_178477.2 |
| 90 | 88.9 | 96.3 | 88.6 NM_182658.1 |
| 78.3 | 87.3 | 75.6 | 87.5 NM_182519.1 |
| 90.9 | 95.7 | 97.6 | 97.6 NM_018474.2 |
| 171.5 | 224.1 | 185.8 | 194.5 NM_001039379.1 |
| 103.4 | 97.1 | 84.5 | 99.2 NM_024059.2 |
| 1685.1 | 1646.2 | 1645.9 | 965.8 NM_018270.3 |
| 263.3 | 183.4 | 187.3 | 161.4 NM_015600.2 |
| 101.3 | 104.4 | 95.1 | 96.1 NM_024704.3 |
| 13487.7 | 13339.1 | 11111.9 | 9276.6 NM_018840.2 |
| 16240.6 | 15974.1 | 14022.3 | 11652.2 NM_199485.1 |
| 4876.6 | 4456.7 | 4056.4 | 3105.9 NM_018840.2 |
| 87.7 | 86.7 | 91 | 92.7 NM_015585.2 |
| 683 | 426.5 | 462.4 | 203.1 NM_017874.2 |
| 96.3 | 98 | 88.4 | 88.2 NM_015417.2 |
| 157.6 | 144 | 130.4 | 139.1 NM_018347.1 |
| 373 | 307.1 | 278.1 | 236.5 NM_020531.2 |
| 1211.9 | 1505.7 | 1288 | 909.8 NM_001009923.1 |
| 2045.1 | 2443.1 | 1974.2 | 1506.3 NM_001009924.1 |
| 339.7 | 245.6 | 286.9 | 210.4 NM_018217.1 |
| 90.3 | 93.8 | 80.5 | 93.6 NM_020356.2 |
| 267.5 | 274.4 | 224.6 | 208.9 NM_033542.2 |
| 107.1 | 102 | 97.9 | 99.7 NM_024893.1 |
| 753.5 | 632.3 | 527.6 | 509.5 NM_015511.2 |
| 146.8 | 102.6 | 89.6 | 98.5 NM_017671.3 |
| 3005.4 | 3338.7 | 3059 | 1907.7 NM_016407.1 |
| 271.7 | 225.5 | 169 | 185.1 NM_199487.1 |
| 135.8 | 119.9 | 109.6 | 117.4 NM_018244.3 |
| 598.3 | 563.6 | 503.9 | 403.3 NM_199513.1 |
| 811.9 | 799.9 | 601.9 | 490.3 NM_016045.1 |
| 99.1 | 89.3 | 96.8 | 95.2 NM_018354.1 |

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| 6798.4 | 5279.6 | 5367.5 | 3400.7 | NM_080748.1 |
| 86.4 | 94.8 | 74.4 | 85.8 | NM_033409.2 |
| 150.3 | 112.9 | 104.1 | 107.6 | NM_031424.3 |
| 80 | 77.6 | 77.1 | 80.3 | NM_001042353.1 |
| 199.4 | 182.3 | 149.7 | 137.8 | NM_001042353.1 |
| 81 | 84.9 | 80.3 | 87.7 | NM_152864.2 |
| 167.8 | 202.2 | 144.5 | 178.9 | NM_022082.2 |
| 98 | 83.5 | 81.3 | 96.3 | NM_016649.3 |
| 139.2 | 141.7 | 124.4 | 126.9 | NM_022104.3 |
| 95.1 | 97.9 | 97.4 | 86.6 | NM_024120.3 |
| 308.6 | 198.2 | 197.6 | 208.1 | NM_024120.2 |
| 151.3 | 117 | 125.6 | 121.4 | NM_024120.3 |
| 93.9 | 97.5 | 95.4 | 90.4 | NM_080574.2 |
| 93.4 | 83.5 | 82.8 | 85.6 | NM_178466.3 |
| 108.9 | 94.8 | 104 | 95 | NM_178466.2 |
| 76.9 | 84.8 | 81.9 | 77.9 | NM_178466.3 |
| 630.1 | 638.1 | 569.6 | 388.5 | NM_052865.2 |
| 97.2 | 91.7 | 92 | 89.4 | XM_945389.1 |
| 75.9 | 87.3 | 79.8 | 76.2 | NM_020343.2 |
| 98.9 | 92.2 | 89.3 | 94 | NM_152611.2 |
| 94.9 | 95.3 | 88.6 | 90.8 | NM_021215.2 |
| 94.2 | 94.2 | 89.3 | 85.7 | NM_178483.2 |
| 98.2 | 93.2 | 95.3 | 93.1 | NM_178456.2 |
| 96.4 | 88.8 | 88.7 | 88.8 | NM_080674.1 |
| 133.4 | 162.3 | 166.4 | 142.4 | NM_001009608.1 |
| 95.2 | 105.9 | 101.6 | 108.3 | NM_153269.1 |
| 267.4 | 247.4 | 244.9 | 161 | NM_024958.1 |
| 102.5 | 86.5 | 85.8 | 91.3 | NM_145033.1 |
| 120.9 | 115.1 | 121.9 | 109.9 | NM_032910.2 |
| 92.6 | 82 | 73 | 77.8 | NM_199175.1 |
| 224.8 | 194.5 | 212.5 | 200.9 | NM_013240.2 |
| 96.2 | 85.7 | 80.4 | 87.9 | NM_152506.1 |
| 94.9 | 96.9 | 88.8 | 94.5 | NM_152505.3 |
| 319.9 | 422.3 | 435.3 | 211.9 | NM_004928.1 |
| 5047.1 | 7119.7 | 8790.9 | 7260.4 | NM_001001789.1 |
| 154.9 | 147.7 | 159.3 | 149.4 | NM_199050.1 |
| 276.2 | 311.4 | 327.2 | 230.7 | NM_199050.1 |
| 81.6 | 84.5 | 81.3 | 84.1 | NM_144991.2 |
| 449.5 | 456.5 | 443.2 | 379.3 | NM_004649.4 |
| 1342.4 | 1290.2 | 1174.7 | 784.3 | NM_004649.4 |
| 296.5 | 325.5 | 297.2 | 263.8 | NM_198155.1 |
| 92.1 | 87.6 | 93.9 | 95.3 | NM_001005732.1 |
| 90 | 83.6 | 80.8 | 90.9 | NM_001005732.1 |
| 89.9 | 76 | 70.2 | 80.6 | NM_001005734.1 |
| 83.4 | 89.6 | 84.6 | 85.3 | NR_002215.1 |
| 112.5 | 93.1 | 101.8 | 91.5 | NM_018944.2 |
| 92.2 | 90.6 | 77.5 | 91.5 | NM_001006116.1 |
| 357.1 | 433.4 | 383.1 | 370.7 | NM_001042401.1 |
| 177.9 | 189.7 | 174.5 | 167.5 | NM_001042401.1 |
| 91.7 | 94.6 | 90 | 82.6 | NM_017833.3 |

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| 102.7 | 87.3 | 93.1 | 92.7 NM_001040192.1 |
| 96.2 | 89.2 | 89.8 | 86.9 NM_017833.3 |
| 221.6 | 159.9 | 152.8 | 146.8 NM_032261.3 |
| 2148.5 | 2492 | 1766.9 | 1734.7 NM_058181.1 |
| 184.2 | 240.6 | 245.7 | 238.5 NM_058181.1 |
| 102.8 | 99.4 | 106.7 | 92.3 NM_001006114.1 |
| 120.1 | 110.2 | 132.3 | 114.7 NM_199071.2 |
| 86.9 | 76.1 | 81.5 | 89.8 NM_058180.3 |
| 107.7 | 92.8 | 91.1 | 99.8 NM_199071.2 |
| 86.3 | 82.7 | 86.1 | 84.5 NM_021254.1 |
| 524.8 | 518.6 | 436.4 | 457 NM_017835.1 |
| 141.5 | 163.9 | 149.9 | 129.8 NM_016940.1 |
| 90.5 | 88.5 | 89.5 | 79.5 NM_019596.2 |
| 106.5 | 88.1 | 98.1 | 96.9 NM_058187.3 |
| 142.1 | 145.7 | 143 | 165.2 NM_016631.3 |
| 117.6 | 123.9 | 108.7 | 111.9 NM_013329.2 |
| 124.3 | 130.4 | 124.3 | 137.1 NM_016631.3 |
| 634.7 | 693.5 | 688.3 | 656.8 NM_016631.3 |
| 92.4 | 91.2 | 88.2 | 82.3 NM_058188.1 |
| 116.6 | 99.6 | 95.7 | 97.8 NM_058189.1 |
| 118 | 109.2 | 104.2 | 103.7 NM_020152.2 |
| 262.7 | 233.5 | 234.6 | 152.1 NM_058190.2 |
| 91.6 | 83.1 | 83.3 | 79.1 XR_001009.1 |
| 87.7 | 76 | 80.5 | 83.1 NM_001040140.1 |
| 87.2 | 79.1 | 90 | 76.7 NM_153754.1 |
| 84.7 | 82.3 | 84 | 82.5 NM_153204.1 |
| 130 | 135.8 | 129 | 111.1 NM_017447.2 |
| 86.6 | 94.1 | 93.7 | 86.9 NM_145180.2 |
| 74 | 73.6 | 77.3 | 82.7 NM_153773.1 |
| 1972.5 | 1989.7 | 2128.4 | 990.7 NM_031444.2 |
| 125.1 | 111.2 | 107.4 | 107.8 NM_182520.1 |
| 2279.8 | 1531.9 | 1293 | 1241.2 NM_213720.1 |
| 496.2 | 372.4 | 373.6 | 246 NM_024053.3 |
| 94.1 | 100.6 | 92.6 | 90.8 NM_032561.2 |
| 227.7 | 224.5 | 209.4 | 232.6 NM_152906.2 |
| 203 | 206.8 | 200.3 | 189.4 NM_012264.3 |
| 148.8 | 134.6 | 130.3 | 129.9 NM_017911.1 |
| 99.5 | 114.6 | 110.7 | 114.9 NM_001009880.1 |
| 656.5 | 817.5 | 823.3 | 497.6 NM_015264.1 |
| 91.9 | 89.9 | 90.1 | 101 NM_015264.1 |
| 102.7 | 127.4 | 110.3 | 97.9 NM_194250.1 |
| 100.1 | 82 | 85.7 | 90.7 NM_144629.1 |
| 91.4 | 89.6 | 86.7 | 89.1 XM_944033.1 |
| 95.2 | 94.4 | 88 | 94.9 NM_173545.1 |
| 91.4 | 101.1 | 95.1 | 104.2 NM_032266.2 |
| 242.6 | 284.7 | 257.3 | 243.4 NM_024293.2 |
| 262.8 | 216.1 | 189.2 | 181.6 NM_017877.2 |
| 100.4 | 99.5 | 93.9 | 83.5 NM_182587.1 |
| 313 | 273.8 | 228.7 | 238.8 NM_015680.3 |
| 3797.1 | 2638.9 | 2277.9 | 2545.4 NM_015702.1 |

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| 182.3 | 287.9 | 271.9 | 235.1 | NM_023016.2 |
| 89.8 | 86 | 85.7 | 85.6 | NM_013310.3 |
| 4533.3 | 2874 | 2913.6 | 2080.2 | NM_080592.2 |
| 1834.4 | 1281.7 | 1341.1 | 927.9 | NM_080592.2 |
| 2363.4 | 1735.4 | 1531.8 | 1023.3 | NM_017546.3 |
| 96 | 91.4 | 85.5 | 94.2 | NM_003203.3 |
| 841 | 729 | 572.1 | 591.3 | NM_015701.2 |
| 128 | 132.6 | 114.2 | 114.4 | NM_015463.1 |
| 265.5 | 185.5 | 225.4 | 209.9 | NM_020194.4 |
| 196 | 168.9 | 168.4 | 120 | NM_024766.1 |
| 377.9 | 309.1 | 266.1 | 220.8 | NM_015955.2 |
| 98.2 | 87 | 88.4 | 92.6 | NM_173513.2 |
| 203.7 | 179.3 | 151.1 | 185.6 | NM_032319.1 |
| 86.8 | 96 | 94 | 88.6 | NM_000064.1 |
| 87.8 | 84.2 | 88.6 | 81.3 | NM_004054.2 |
| 172.6 | 195.4 | 171.7 | 174 | NM_016589.3 |
| 923.5 | 949.6 | 951.1 | 633.9 | NM_018462.4 |
| 2052.4 | 1059.7 | 921.3 | 673.7 | NM_020685.3 |
| 95.1 | 91.3 | 84.8 | 87.6 | NM_033364.2 |
| 1359.1 | 1528.8 | 1170.7 | 1216 | NM_015412.3 |
| 93.9 | 100.4 | 89.1 | 100.6 | NM_015412.3 |
| 105.5 | 103.7 | 112.3 | 107.2 | NM_001025072.2 |
| 89.4 | 83.4 | 73.8 | 84.5 | NM_016210.2 |
| 680.9 | 771.4 | 780.8 | 579.9 | NM_016474.3 |
| 83.8 | 86 | 80 | 86.1 | NM_032137.3 |
| 407.8 | 395.9 | 346.1 | 214.5 | NM_152531.3 |
| 105.2 | 105.2 | 90.4 | 98.3 | NM_152533.1 |
| 184.5 | 142.6 | 118.6 | 108.4 | NM_001029839.1 |
| 97.2 | 92.9 | 79 | 81.6 | NM_001029839.1 |
| 116.9 | 100.6 | 98.2 | 94 | NM_001029840.1 |
| 178.6 | 179.1 | 139.4 | 149.6 | NM_173826.1 |
| 89.7 | 95.3 | 85.2 | 92.9 | NM_173472.1 |
| 99.1 | 97.5 | 111.7 | 82.5 | NM_207307.1 |
| 1131.9 | 947.4 | 850.9 | 577.1 | NM_032359.2 |
| 87.5 | 93.8 | 91.9 | 92 | NM_007354.1 |
| 304 | 224.8 | 222.4 | 205.9 | NM_014367.3 |
| 1276.9 | 1374.9 | 1535.8 | 855.6 | NM_022485.2 |
| 320 | 350.4 | 340.1 | 273.1 | NM_022485.2 |
| 88 | 85.4 | 88.2 | 89.5 | NM_152539.1 |
| 479.7 | 273 | 264.5 | 236.6 | NM_138807.2 |
| 102 | 96.5 | 93.1 | 93 | NM_015931.1 |
| 104.2 | 88.1 | 86.4 | 95.1 | NM_173657.1 |
| 176.1 | 180.9 | 183.2 | 172.7 | NM_032898.2 |
| 3469.6 | 4276.5 | 4746.8 | 5048.5 | NM_032898.2 |
| 98.7 | 103 | 93.8 | 97.7 | NM_178342.1 |
| 93.3 | 90.3 | 84.1 | 87.8 | NM_178343.1 |
| 94.4 | 94.4 | 91 | 86.6 | NM_025041.2 |
| 416.4 | 314.7 | 358.8 | 229.1 | NM_020187.2 |
| 93.4 | 86.8 | 89.6 | 97.7 | NM_001006109.1 |
| 663.3 | 481 | 378 | 346.1 | NM_173824.2 |

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| 190.6 | 165 | 145.6 | 145.8 NM_032806.4 |
| 164.2 | 151.6 | 157.1 | 110.6 NM_144635.3 |
| 93.1 | 87 | 97.6 | 93.6 XR_001028.1 |
| 98.5 | 91.1 | 86.9 | 98.2 NM_001039102.1 |
| 82.2 | 82.8 | 82.5 | 87.7 NM_153215.1 |
| 90.1 | 89.3 | 89.7 | 93.1 NM_144714.2 |
| 95.5 | 90.3 | 87.2 | 88.3 NM_024616.1 |
| 355 | 277.1 | 273.1 | 178.7 NM_203370.1 |
| 89.8 | 85.5 | 77.6 | 86.6 NM_001007534.1 |
| 94.3 | 87.3 | 83.3 | 89.1 NM_145035.2 |
| 185.2 | 219 | 169.2 | 213.8 NM_173552.2 |
| 110.7 | 102.9 | 100.7 | 101.6 NM_178496.2 |
| 195.2 | 120.4 | 118.3 | 109.2 NM_199074.1 |
| 125.4 | 119.7 | 112.7 | 102.1 NM_199073.1 |
| 91 | 87.1 | 88.4 | 87.7 NM_199417.1 |
| 103 | 116.2 | 102 | 91.6 NM_199073.1 |
| 7145 | 4932.2 | 4915.6 | 2842.8 NM_199069.1 |
| 165.4 | 168 | 157.1 | 145.1 NM_198562.1 |
| 221.5 | 238 | 237.1 | 201.9 NM_015224.1 |
| 202.2 | 154 | 157.2 | 162.6 NM_173654.1 |
| 92.1 | 89.9 | 96.2 | 101.2 NM_001039788.1 |
| 289.3 | 249.2 | 224.3 | 200.2 NM_152305.1 |
| 1057.6 | 925.9 | 838.4 | 660.6 NM_020231.3 |
| 87.6 | 81.3 | 81.4 | 89.4 NM_007293.2 |
| 97.1 | 94.6 | 85.7 | 89.3 NM_000715.3 |
| 88.4 | 93.2 | 94.8 | 81.8 NM_001017367.1 |
| 86.6 | 90.3 | 84 | 92.6 NM_000716.3 |
| 108.6 | 110 | 103.7 | 103.5 NM_001030316.1 |
| 263.6 | 230.7 | 196 | 175.3 NM_001029998.1 |
| 857.1 | 637.6 | 565.7 | 473.5 NM_032313.2 |
| 108.4 | 101 | 107.7 | 97 NM_024511.4 |
| 94.9 | 89.5 | 84.1 | 90.3 NM_018569.2 |
| 87.7 | 82.4 | 78.4 | 82 NM_032149.1 |
| 86 | 90.2 | 83.3 | 92.5 NM_016613.4 |
| 97.7 | 90.3 | 92.9 | 96.8 NM_016613.4 |
| 87.5 | 88.4 | 89.3 | 85.3 NM_001031700.1 |
| 87.1 | 77.9 | 78.3 | 78.2 NM_145048.2 |
| 89.7 | 82.9 | 80.9 | 83.4 NM_152400.1 |
| 174.1 | 242.9 | 270.6 | 183.5 NM_174921.1 |
| 106.7 | 99.4 | 99.7 | 100.6 NM_144645.1 |
| 90.5 | 90.2 | 84.8 | 90 NM_005750.2 |
| 89.9 | 91.9 | 85.3 | 91.9 NM_152997.2 |
| 200.5 | 200.7 | 208.1 | 190 NM_003704.3 |
| 616 | 414.6 | 366.9 | 275.3 NM_003703.1 |
| 749.2 | 726.4 | 730.6 | 600 NM_001735.2 |
| 96.7 | 114.4 | 103.1 | 101.7 NM_001736.2 |
| 1647.4 | 987.6 | 932.2 | 827.6 NM_004772.1 |
| 105.4 | 100.5 | 101.9 | 101.5 NM_024715.2 |
| 1486.6 | 1487.8 | 1447.6 | 903 NM_020199.1 |
| 220.4 | 184.9 | 166.7 | 182.9 NM_173828.3 |

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|--------|--------|--------|--------|----------------|
| 310.6 | 342.7 | 334.1 | 265.8 | NM_130848.1 |
| 694.5 | 600.4 | 547.9 | 436.4 | NM_032042.3 |
| 960.9 | 1660.7 | 2376.6 | 1710.2 | NM_022483.3 |
| 156 | 153.4 | 123.8 | 128.8 | NM_018691.1 |
| 97.1 | 108 | 102.7 | 105.8 | NM_198566.1 |
| 89.3 | 77.1 | 79.5 | 84.4 | NM_173665.1 |
| 440.3 | 361.3 | 367.3 | 308.4 | NM_152408.1 |
| 88.3 | 86.2 | 82.9 | 85.4 | NM_016348.1 |
| 89.4 | 83.1 | 72.2 | 85.1 | NM_016348.1 |
| 97.3 | 92.1 | 99.9 | 97.4 | NM_032385.1 |
| 485 | 516 | 607.4 | 534.1 | NM_016603.1 |
| 103.7 | 92.4 | 89.7 | 87.5 | NM_000065.1 |
| 113.8 | 100.8 | 101.9 | 103 | NM_178508.3 |
| 147.2 | 135.8 | 151.1 | 144.6 | NM_001008704.1 |
| 142.6 | 117.2 | 118 | 110.9 | NM_001008703.1 |
| 87.4 | 84.2 | 84.6 | 90.1 | NM_006781.2 |
| 98.7 | 96.4 | 87.2 | 94.3 | NM_032744.1 |
| 146.9 | 182.6 | 166.8 | 155.5 | NM_024294.2 |
| 203.4 | 225 | 208.4 | 168.2 | NM_022758.4 |
| 108.5 | 94.2 | 96.9 | 101.8 | NM_017754.2 |
| 84.6 | 75.3 | 86.4 | 85.7 | NM_199184.1 |
| 3636.1 | 3332.6 | 3036.3 | 2590.9 | NM_199184.1 |
| 946.7 | 1094 | 907 | 1153.7 | NM_032870.1 |
| 484.5 | 392.8 | 348.5 | 375 | NM_145062.1 |
| 75.3 | 70.5 | 80.6 | 76.4 | NM_033069.1 |
| 161.2 | 385.8 | 393.7 | 296.9 | NM_138409.1 |
| 108.2 | 85.7 | 92.7 | 94.9 | NM_144980.1 |
| 187.8 | 171.4 | 167.6 | 168.6 | NM_001029863.1 |
| 92 | 95.4 | 91.2 | 92.3 | NM_207502.1 |
| 3577.9 | 3029.7 | 2708.9 | 2094.2 | NM_032340.1 |
| 101.9 | 97.2 | 94.7 | 103.6 | NM_145316.2 |
| 994.9 | 780.1 | 735.8 | 551.9 | NM_138493.1 |
| 957.9 | 914.8 | 844.5 | 644.8 | NM_145063.2 |
| 96.6 | 86.4 | 88.2 | 88.6 | NM_001031722.1 |
| 108.2 | 96.8 | 97 | 95 | NM_024909.1 |
| 93.7 | 81.8 | 84.1 | 85.9 | NM_001031722.1 |
| 221 | 150.7 | 171.5 | 124.8 | NM_145029.1 |
| 274.7 | 274.1 | 214 | 251.9 | NM_018132.3 |
| 86.4 | 89.8 | 83.4 | 88.9 | NM_138569.1 |
| 96.9 | 93.7 | 93.6 | 98.3 | NM_001010872.1 |
| 81 | 74.9 | 80.4 | 81.7 | NM_183373.2 |
| 94 | 83.7 | 82.5 | 92.5 | NM_173563.1 |
| 201.3 | 183.2 | 143.9 | 141.3 | NM_030568.3 |
| 169.5 | 143.6 | 142.3 | 126.3 | NM_020408.3 |
| 76.2 | 76.2 | 76 | 91.4 | NM_014070.1 |
| 198.2 | 174.7 | 169.3 | 161.1 | NM_138441.1 |
| 96.9 | 111.5 | 100.5 | 105.7 | NM_152551.3 |
| 104.7 | 93.7 | 95.7 | 90.5 | NM_181714.1 |
| 870.7 | 745.5 | 739 | 461.3 | NM_033112.2 |
| 82.2 | 79.8 | 75 | 79.9 | NM_001012974.1 |

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| 109.5 | 88.7 | 94.7 | 107.3 NM_198920.1 |
| 86.8 | 96.1 | 100.9 | 87.2 NM_001009994.1 |
| 151.9 | 177.7 | 176.4 | 155.8 NM_020425.3 |
| 135.2 | 159.8 | 161.5 | 133.3 NM_020425.3 |
| 94.7 | 103.2 | 95.3 | 105.4 NM_001031743.1 |
| 75.9 | 91.9 | 89.4 | 92.4 NM_178823.2 |
| 91.4 | 101.1 | 98 | 96.4 NM_178823.2 |
| 1637.4 | 1566.7 | 1235.8 | 1203.4 NM_018064.2 |
| 157.9 | 157.3 | 120.3 | 125.5 NM_198468.1 |
| 98.6 | 89.9 | 81.8 | 89.6 NM_032511.1 |
| 216.5 | 262.1 | 321.9 | 234.2 NM_152730.4 |
| 1027.3 | 649.5 | 773.3 | 645.5 NM_001012507.1 |
| 94.6 | 93.2 | 99.9 | 104.5 NM_001012279.1 |
| 106.3 | 109 | 93.6 | 103.6 NM_173830.3 |
| 93.2 | 85.5 | 90.3 | 97.8 NM_153711.1 |
| 104.2 | 111.3 | 128.6 | 95.1 NM_001010923.1 |
| 86.7 | 80.8 | 80.6 | 80.6 NM_001010876.1 |
| 81.6 | 86.3 | 91.6 | 80.7 NM_052831.2 |
| 85.6 | 91.7 | 83 | 86.2 NM_001007531.1 |
| 91.9 | 95.2 | 90.4 | 93 NM_152554.1 |
| 83.2 | 88.5 | 85.4 | 93.2 NM_145025.2 |
| 86.1 | 96 | 81.6 | 88.2 NM_206834.1 |
| 114.2 | 117.8 | 109.6 | 118.9 NM_016487.2 |
| 87.8 | 116.6 | 93.6 | 103.1 NM_001042475.1 |
| 101.5 | 96.4 | 101.6 | 107.6 NM_206921.1 |
| 121.4 | 113.9 | 111.4 | 111.4 NM_001010909.1 |
| 99.9 | 97.5 | 86.5 | 97.4 NM_001010909.1 |
| 81.7 | 87.6 | 84.8 | 92.8 NM_152732.2 |
| 90.8 | 99.8 | 88.4 | 92.9 NM_025002.1 |
| 90.3 | 92.5 | 88.6 | 95 NM_001003693.1 |
| 128.8 | 132.3 | 117.2 | 129.9 NM_024573.1 |
| 96.4 | 92.1 | 95.2 | 94.4 NM_001010852.2 |
| 110.4 | 112.8 | 114.2 | 110.4 NM_138276.1 |
| 95.4 | 97.4 | 93.2 | 92.6 NM_138275.1 |
| 81.7 | 88.3 | 84.9 | 85.3 NM_138277.1 |
| 88.5 | 78.1 | 72.3 | 81.8 NM_138274.1 |
| 154.8 | 223.9 | 210.2 | 187.9 NM_001039651.1 |
| 98.3 | 91.6 | 88.3 | 90.5 NM_025258.1 |
| 85.1 | 86.3 | 82.1 | 83.3 NM_015864.2 |
| 87.7 | 91.5 | 92.7 | 91.6 NM_018452.2 |
| 276.2 | 306.2 | 318.2 | 158.3 NM_021184.3 |
| 109.5 | 95.1 | 89.5 | 102.8 NM_001040437.1 |
| 11626.9 | 11244.7 | 11838.9 | 8690.6 NM_001040437.1 |
| 5709.6 | 3445.9 | 2586.1 | 2374.3 NM_013397.3 |
| 87.3 | 80.5 | 77.7 | 85.7 NM_138408.2 |
| 474.6 | 535.5 | 449.6 | 367.8 NM_016485.3 |
| 446 | 444.8 | 354.1 | 330.4 NM_145267.2 |
| 96 | 96.1 | 98.6 | 99.2 NM_024929.1 |
| 152.5 | 201.6 | 197.9 | 163.2 NM_024581.3 |
| 91.1 | 89.4 | 84.1 | 91.1 NM_030939.3 |

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| 227.9 | 236 | 276 | 153.9 NM_018322.1 |
| 213.1 | 237.9 | 211.9 | 233.7 NM_152731.1 |
| 188.7 | 146.4 | 138.5 | 162.5 NM_014165.1 |
| 1033.7 | 1117.6 | 939.8 | 1009.9 NM_173562.3 |
| 406.1 | 563.3 | 525.2 | 490.1 NM_018341.1 |
| 85.1 | 82.3 | 78.7 | 89.2 NM_203395.1 |
| 160.7 | 134.5 | 139.9 | 119.9 NM_138785.1 |
| 85.4 | 81.5 | 78.2 | 85.8 NM_021820.1 |
| 88.4 | 83.6 | 86.6 | 92.7 NM_001031712.1 |
| 468.4 | 492.2 | 395.9 | 343.4 NM_001031712.1 |
| 83.3 | 95.6 | 80.7 | 93.3 NM_153036.2 |
| 379.7 | 327.9 | 313.1 | 282.6 NM_022102.1 |
| 90.2 | 88.9 | 88 | 100.7 NM_145028.3 |
| 193.5 | 191.7 | 156.4 | 137.3 NM_014895.1 |
| 107 | 104.9 | 102.9 | 95 NM_021945.4 |
| 245.7 | 212.7 | 178.6 | 148.4 NM_152734.2 |
| 229.6 | 186.8 | 172.6 | 205 NM_017909.1 |
| 74.7 | 85.5 | 74.7 | 84.5 NM_000587.2 |
| 97.7 | 93.6 | 100.6 | 104 NM_024728.1 |
| 146 | 129.4 | 127.8 | 129.7 NM_138701.1 |
| 83.7 | 93.6 | 93.1 | 99.5 NM_006658.2 |
| 449.8 | 465.6 | 387.1 | 385.5 XM_946079.1 |
| 158.9 | 198.6 | 160.2 | 155.8 NM_015949.2 |
| 757.6 | 683.6 | 607.5 | 582.9 NM_031434.2 |
| 995.5 | 886.7 | 869.6 | 778.2 NM_024051.2 |
| 200.8 | 206.8 | 182.1 | 173 NM_024054.1 |
| 630.8 | 488.3 | 467.3 | 393.2 NM_024067.2 |
| 710.6 | 808.6 | 849.2 | 271.8 NM_152743.2 |
| 131.2 | 127 | 138.9 | 117.8 NM_015622.5 |
| 698.3 | 532.1 | 515.2 | 466.8 NM_198097.1 |
| 109.9 | 106.4 | 104.4 | 110.6 NM_138434.2 |
| 3165.9 | 1894.1 | 2007.7 | 1432.8 NM_138446.1 |
| 95.5 | 93.2 | 82.1 | 95.6 NM_138811.3 |
| 96 | 88.3 | 91.8 | 93.5 NM_145304.2 |
| 83.3 | 88.9 | 74.8 | 76.6 NM_178829.2 |
| 186.7 | 172 | 158.2 | 177.2 NM_020192.1 |
| 1045.5 | 1162.2 | 1136.5 | 750.8 NM_018224.2 |
| 91.3 | 98.5 | 92.9 | 76.3 NM_022150.2 |
| 85.7 | 78.8 | 82.9 | 73 NM_000562.1 |
| 90.6 | 74.3 | 94.8 | 86.4 NM_000066.2 |
| 102.3 | 96.9 | 89.2 | 106.9 NM_000606.1 |
| 259.7 | 236.3 | 229.2 | 189.2 NM_004337.1 |
| 89.9 | 88.1 | 86.3 | 92.7 NM_053279.1 |
| 91.7 | 100.1 | 97.8 | 89.9 NM_001033662.1 |
| 97.5 | 91.7 | 86.7 | 106 NM_001007176.1 |
| 101.3 | 86.1 | 83.5 | 78.2 NM_016458.2 |
| 95.1 | 90.2 | 87.1 | 95.9 NM_173687.1 |
| 433.3 | 218.8 | 194 | 193.4 NM_018024.1 |
| 1144.7 | 618.1 | 607.5 | 348.6 NM_023080.1 |
| 128 | 131.5 | 137.3 | 131.6 NM_052958.1 |

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|--------|--------|--------|--------|----------------|
| 1385 | 1088 | 916.7 | 725.3 | NM_018142.1 |
| 486 | 478.3 | 393 | 293.7 | NM_173685.1 |
| 1772.1 | 2716.9 | 3449.2 | 2609.2 | NM_177965.2 |
| 375.7 | 200.3 | 231.9 | 247.2 | NM_152416.1 |
| 92.2 | 76.5 | 80.9 | 85.8 | NM_020130.2 |
| 1716 | 945.9 | 1077.1 | 773.1 | NM_138436.2 |
| 255.8 | 197.4 | 169.5 | 164 | NM_025115.1 |
| 84.7 | 92 | 91 | 89.3 | NM_175075.2 |
| 132 | 150.8 | 165.9 | 142 | NM_019607.1 |
| 556.1 | 1480 | 1400.9 | 1081.1 | NM_173518.2 |
| 99 | 96.1 | 88 | 93.3 | NM_152765.2 |
| 103.4 | 94.3 | 81.5 | 88.8 | NM_173549.1 |
| 90.5 | 88.6 | 81.8 | 86.2 | NM_001007090.1 |
| 85.6 | 88 | 83.5 | 84.6 | NM_001031839.1 |
| 245.4 | 189.7 | 169.1 | 213.3 | NM_017864.2 |
| 139.4 | 126.7 | 116.5 | 129.8 | NM_032334.1 |
| 505.1 | 401.4 | 404.2 | 179 | NM_016647.1 |
| 114.1 | 116.8 | 97.2 | 100.3 | NM_001013842.1 |
| 117.2 | 125.3 | 113.9 | 115.9 | NM_001034061.1 |
| 121.6 | 92.5 | 101.6 | 89.9 | NM_016010.1 |
| 127.7 | 137.9 | 133.6 | 106.7 | NM_147189.1 |
| 82 | 87.2 | 80.6 | 88.5 | NM_001040032.1 |
| 2125.5 | 1335.5 | 1322.2 | 1018.2 | NM_032847.1 |
| 95.9 | 89.1 | 84.7 | 99.2 | NM_015912.2 |
| 95.4 | 82.7 | 78.3 | 85.5 | NM_001081675.1 |
| 98.2 | 83.8 | 85.6 | 86.1 | XR_001454.1 |
| 79 | 83.5 | 78.5 | 87.7 | NM_001737.2 |
| 144.5 | 107.6 | 93.1 | 91.6 | NM_001031728.1 |
| 231.7 | 157.4 | 129 | 135.4 | NM_001031728.1 |
| 243.1 | 251.7 | 222.2 | 165.1 | NM_020207.1 |
| 426.3 | 314.9 | 299.3 | 242 | NM_001001551.1 |
| 111.3 | 101.8 | 102.5 | 108 | NM_001012715.1 |
| 273.4 | 214.9 | 181.5 | 194.2 | NM_198841.1 |
| 96.7 | 88.2 | 82.9 | 93.2 | NM_020641.1 |
| 350.3 | 551.8 | 781.3 | 337.9 | NM_152286.2 |
| 158.1 | 125.7 | 105.2 | 125.4 | NM_138778.1 |
| 734.5 | 488.9 | 462.6 | 311.3 | NM_016390.2 |
| 177.8 | 140.6 | 143.6 | 121.3 | NM_144654.1 |
| 214.3 | 141.3 | 124.9 | 124.7 | NM_144654.1 |
| 82.4 | 88.7 | 79.9 | 70.9 | NM_001012502.2 |
| 89.6 | 90.4 | 78.9 | 93.2 | NM_145283.1 |
| 163.3 | 188.8 | 163.2 | 155.3 | NM_033428.1 |
| 167.5 | 123.8 | 118 | 118.7 | NM_032342.1 |
| 105.9 | 99.3 | 90 | 101.4 | NM_173690.1 |
| 176.1 | 156.8 | 173.8 | 120 | NM_016446.2 |
| 90.8 | 79.6 | 72.3 | 76.2 | NM_001042590.1 |
| 104 | 93.1 | 97.8 | 91.9 | NM_001012446.1 |
| 95.8 | 81.2 | 94.6 | 97.2 | NM_203305.1 |
| 86.3 | 85.4 | 84.4 | 78.1 | NM_153707.1 |
| 1744.6 | 829 | 636 | 557.3 | NM_178448.2 |

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| 3147.3 | 2147.6 | 1900.7 | 1605.5 | NM_183241.1 |
| 81 | 82 | 88.6 | 93.9 | NM_203403.1 |
| 88.1 | 84.7 | 87.7 | 87 | NM_001012993.1 |
| 91.2 | 76.6 | 78.8 | 86.6 | NM_001010907.1 |
| 386.2 | 293.1 | 295.1 | 223.4 | NM_016481.2 |
| 78.8 | 81.7 | 76.9 | 80.6 | NM_001012415.1 |
| 144.7 | 118.6 | 110.9 | 97.2 | NM_024112.2 |
| 80.8 | 82.7 | 83.1 | 91.2 | NM_001080515.1 |
| 89.3 | 77.1 | 82.4 | 86.8 | NM_198469.1 |
| 1501.7 | 1280.2 | 1314.4 | 716.4 | NM_022343.2 |
| 233.6 | 184.3 | 198.1 | 139.4 | NM_153698.1 |
| 212.3 | 130.9 | 144.5 | 112.9 | NM_148178.1 |
| 178.6 | 117.7 | 123.3 | 125.1 | NM_148179.1 |
| 749.8 | 358.4 | 371.5 | 275.9 | NM_148178.1 |
| 107.2 | 107.7 | 106.1 | 100.2 | NM_147168.1 |
| 100.7 | 107.5 | 101 | 102.8 | NM_147168.1 |
| 87 | 92.1 | 83.4 | 94.8 | NM_032596.3 |
| 119.4 | 121.2 | 112.8 | 100.7 | NM_147202.1 |
| 582.8 | 565.9 | 526.1 | 409.6 | NM_033446.1 |
| 101.2 | 93.7 | 90.3 | 104.4 | NM_032823.3 |
| 193 | 169.8 | 171.8 | 187.7 | NM_080655.1 |
| 210.1 | 201.1 | 178.4 | 155.2 | NM_014064.2 |
| 98 | 84.5 | 86 | 96.4 | NM_015667.1 |
| 141 | 142.4 | 140.3 | 102.8 | NM_032937.3 |
| 177 | 236.8 | 179.7 | 193.5 | NM_017738.1 |
| 93.4 | 79.7 | 89 | 88.7 | NM_014334.1 |
| 443.1 | 239.1 | 226.4 | 200.1 | NM_017998.1 |
| 110.9 | 95.3 | 100 | 109.2 | NM_152420.1 |
| 85 | 89.7 | 87.9 | 75.4 | NM_152786.1 |
| 168.6 | 247 | 306.4 | 186 | NM_030814.4 |
| 1403 | 1443.7 | 1029.5 | 1181.7 | NM_018465.1 |
| 93.3 | 89.6 | 81.5 | 82 | NM_001001938.1 |
| 140.6 | 138.7 | 120.9 | 128 | NM_194313.1 |
| 350.4 | 316.7 | 227.2 | 277.8 | NM_032012.1 |
| 100.3 | 89.3 | 82.9 | 91.3 | NM_199350.1 |
| 85.4 | 74.2 | 76.9 | 82.6 | NM_152574.1 |
| 100 | 87.2 | 95.1 | 91.7 | NM_031426.2 |
| 87.7 | 80.4 | 77.6 | 89.9 | NM_001002260.1 |
| 467.2 | 458.9 | 349.4 | 304.3 | NM_017832.2 |
| 97.2 | 94.5 | 97.5 | 99 | NM_004816.2 |
| 205.6 | 223.5 | 198.2 | 145.3 | NM_032307.2 |
| 240.4 | 189.3 | 232.4 | 169.2 | NM_152569.1 |
| 89.9 | 84.7 | 71.5 | 85.2 | NM_001039395.1 |
| 117.4 | 127.9 | 128.6 | 127.5 | NM_017586.1 |
| 89.5 | 84.6 | 75.9 | 89.4 | NM_153237.1 |
| 104.2 | 89.8 | 84.3 | 90 | NM_018325.1 |
| 90.9 | 80.9 | 77.4 | 88.4 | NM_145005.3 |
| 92.4 | 91.3 | 82.1 | 81.7 | NM_145005.3 |
| 1341.3 | 938.7 | 945 | 487.2 | NM_030914.1 |
| 139.9 | 138.8 | 146.2 | 99.5 | NM_173691.1 |

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| 205.7 | 143.7 | 129 | 122 NM_016014.2 |
| 102.6 | 104.6 | 94.3 | 107.1 NM_016014.2 |
| 251.9 | 164.2 | 146 | 141 NM_001025780.1 |
| 2309.9 | 1947.2 | 1716.4 | 1317.2 NM_016482.2 |
| 100.1 | 86.3 | 105.4 | 98.3 NM_178828.3 |
| 2705.7 | 4555.2 | 5504.9 | 3958.5 NM_021218.1 |
| 168.7 | 148.7 | 137.6 | 143.4 NM_024828.2 |
| 108 | 108.1 | 106.7 | 101.3 NM_173521.3 |
| 89.9 | 93.6 | 84.3 | 82.5 NM_173521.3 |
| 135.7 | 101.1 | 101.8 | 98.4 NM_182505.3 |
| 85.4 | 86.7 | 82.2 | 103.2 NM_182505.3 |
| 630.7 | 728.5 | 620 | 639.8 NM_024718.2 |
| 1008.4 | 718.1 | 669.9 | 295.4 NM_022833.2 |
| 554.6 | 441.3 | 404.1 | 344.9 NM_032310.2 |
| 95.5 | 96.6 | 98.3 | 98.9 NM_018956.3 |
| 541.6 | 410.8 | 440.6 | 256.3 NM_197956.1 |
| 374.4 | 258.3 | 255.5 | 190.6 NM_153045.2 |
| 111.6 | 121 | 128.1 | 122.4 NM_173550.2 |
| 121.9 | 134.2 | 148.7 | 130.4 NM_017881.1 |
| 90.6 | 102.3 | 95.6 | 100.5 NM_153710.3 |
| 137.6 | 143.5 | 122.9 | 120.3 NM_139246.3 |
| 94.3 | 76.9 | 81.9 | 96.4 NM_152572.2 |
| 84.9 | 96.1 | 88.7 | 90.4 NM_001738.1 |
| 87.6 | 90.5 | 80.9 | 88.9 NM_020178.3 |
| 178.2 | 106.7 | 112 | 117.9 NM_001217.3 |
| 92.8 | 95.9 | 83.7 | 85.2 NM_001218.3 |
| 78.2 | 80.1 | 75.8 | 76 NM_001218.3 |
| 100.1 | 110.9 | 106.4 | 86.9 NM_198584.1 |
| 89.3 | 87.8 | 80.4 | 82 NM_012113.1 |
| 8784.9 | 3891.1 | 3396 | 3261.7 NM_000067.1 |
| 84.3 | 97.4 | 88.9 | 92.2 NM_005181.2 |
| 110.3 | 102.7 | 96.4 | 103.1 NM_000717.2 |
| 79.9 | 82.7 | 66.8 | 70.9 NM_001739.1 |
| 124.5 | 109.2 | 96.3 | 121.5 NM_007220.2 |
| 102.7 | 99.4 | 102.4 | 94 NM_001215.2 |
| 87.3 | 81.8 | 74.4 | 92 NM_005182.2 |
| 94.6 | 88.9 | 83.7 | 87.4 NM_001014435.1 |
| 82.2 | 96.8 | 96.7 | 99.5 NM_004056.4 |
| 98.1 | 88.6 | 95 | 98.9 NM_001216.1 |
| 2734.9 | 3014.3 | 2542.3 | 1752.8 NM_016289.2 |
| 179.9 | 181.6 | 161.9 | 150.3 NM_001031724.1 |
| 84.1 | 76.7 | 78.4 | 80.5 NM_001031724.1 |
| 99.9 | 98.6 | 100.9 | 89 NM_030925.1 |
| 1309.9 | 1116.6 | 1221.3 | 895.9 NM_020247.3 |
| 210.7 | 185.5 | 159 | 150.6 NM_012295.2 |
| 141.2 | 115 | 110.4 | 109.3 NM_138375.1 |
| 231.5 | 173 | 183.5 | 162.3 NM_031215.1 |
| 97.6 | 90.8 | 92 | 80.9 NM_031205.2 |
| 94.7 | 94.4 | 87.4 | 85.7 NM_001033677.1 |
| 96.2 | 85.3 | 88.8 | 87.7 NM_001033677.1 |

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| 102.6 | 89.5 | 85.5 | 85.8 NM_031204.2 |
| 90.2 | 93.5 | 94.6 | 91 NM_031204.2 |
| 85.8 | 97.5 | 89.4 | 78.8 NM_016366.1 |
| 88.5 | 76.2 | 81 | 88.5 NM_145200.2 |
| 90.1 | 81.1 | 79.7 | 86.2 NM_019855.3 |
| 101.9 | 104.8 | 100 | 94.5 NM_182527.1 |
| 71 | 79 | 70.1 | 71.9 NM_153770.1 |
| 108.4 | 99.9 | 100 | 82.6 NM_153768.1 |
| 99.4 | 94.2 | 94.4 | 97.7 NM_020925.1 |
| 86.3 | 82.9 | 80.9 | 77.9 NM_023035.1 |
| 89.2 | 87.1 | 79.5 | 83.3 NM_000068.2 |
| 144.4 | 116.6 | 111 | 131.7 NM_000718.1 |
| 86.6 | 85.3 | 76.9 | 89.2 NM_000719.4 |
| 111 | 108.9 | 89 | 102.1 NM_000720.1 |
| 96.5 | 88.6 | 98.3 | 89.6 NM_000721.2 |
| 86.1 | 86.6 | 76.5 | 85.6 NM_005183.2 |
| 89 | 81.4 | 82.9 | 78.7 NM_198397.1 |
| 85.5 | 97.6 | 85.9 | 98.1 NM_198396.1 |
| 95.3 | 88.8 | 80.5 | 76.5 NM_198376.1 |
| 95 | 86.6 | 82.1 | 77.4 NM_198397.1 |
| 107.4 | 100 | 103 | 97.7 NM_021098.2 |
| 96.7 | 87.4 | 82.3 | 97.8 NM_001005407.1 |
| 82 | 77.3 | 78.9 | 81.8 NM_021096.3 |
| 92.5 | 78.7 | 85.9 | 89.7 NM_001003406.1 |
| 78.9 | 79 | 79.3 | 80 NM_000069.1 |
| 98.8 | 87.2 | 81.6 | 93.1 NM_000722.2 |
| 98.8 | 93.9 | 88 | 85.2 NM_001005505.1 |
| 99.9 | 99.3 | 92 | 96.5 NM_001005505.1 |
| 289.2 | 357.9 | 393.5 | 320.8 NM_018398.2 |
| 99.9 | 96.9 | 100.3 | 104.8 NM_001005737.1 |
| 222.3 | 204.5 | 212 | 143.7 NM_172364.3 |
| 91 | 91 | 88.9 | 81.6 NM_000723.3 |
| 92.9 | 96.6 | 89.4 | 95.9 NM_199247.1 |
| 89.3 | 77.6 | 80.7 | 79.9 NM_199247.1 |
| 82.9 | 79.6 | 87 | 92.5 NM_199247.1 |
| 93.4 | 85.3 | 87.6 | 100.5 NM_201572.1 |
| 80.9 | 78.8 | 80.6 | 82.5 NM_201570.1 |
| 84.4 | 76.3 | 77.9 | 76.9 NM_201590.1 |
| 99.3 | 88.7 | 96.1 | 90.6 NM_201572.1 |
| 84.3 | 78.9 | 76.2 | 82.6 NM_000724.2 |
| 168.1 | 152.3 | 169.1 | 140.7 NM_000725.2 |
| 109 | 98.2 | 93.6 | 95.4 NM_001005747.1 |
| 79.8 | 75.3 | 72.1 | 76.9 NM_000726.2 |
| 82.7 | 83.6 | 83.3 | 82.8 NM_001005746.1 |
| 88.8 | 92.4 | 79.7 | 87.5 NM_000727.2 |
| 96 | 85.8 | 86.8 | 89.6 NM_006078.2 |
| 90.8 | 87.2 | 83.4 | 92.1 NM_006539.2 |
| 92.9 | 98.3 | 91.7 | 88.9 NM_014405.2 |
| 93.8 | 97.5 | 82.9 | 90.7 NM_145811.1 |
| 87.2 | 92.6 | 78.8 | 87.5 NM_014404.1 |

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| 90.7 | 84.6 | 77.2 | 89.8 NM_014404.1 |
| 96.3 | 89.6 | 90.1 | 80.8 NM_031897.2 |
| 99.7 | 84.1 | 88.9 | 89.6 NM_145814.1 |
| 82.8 | 84.3 | 80.2 | 78.2 NM_031897.2 |
| 76 | 81.7 | 77.1 | 74.3 NM_031896.3 |
| 110.3 | 111 | 102.9 | 109.4 NM_031895.4 |
| 1756.8 | 1344.2 | 1207 | 874.3 NM_014412.2 |
| 238.3 | 198.8 | 171.4 | 170.2 NM_001007214.1 |
| 77.2 | 81.8 | 77.6 | 76 NM_001007214.1 |
| 219 | 209.4 | 203.6 | 173.8 NM_004341.3 |
| 83.3 | 77.9 | 74.5 | 83.5 NM_183394.1 |
| 115.2 | 112.4 | 104 | 89.5 NM_183394.1 |
| 86.4 | 80.4 | 75.5 | 84.8 NM_003716.2 |
| 86.7 | 74.1 | 78.1 | 77 NM_017954.8 |
| 111.6 | 97.2 | 90.2 | 96.8 NM_017954.8 |
| 115.8 | 133.6 | 108 | 112.5 NM_205864.1 |
| 92.6 | 91.2 | 86.4 | 93.9 NM_004929.2 |
| 121.2 | 93.9 | 102.4 | 98.6 NM_007088.1 |
| 83.6 | 83.7 | 78.7 | 85.8 NM_001740.2 |
| 87.5 | 74.3 | 74.3 | 83 NM_001033952.1 |
| 101.1 | 88.2 | 94.7 | 93.4 NM_001033953.1 |
| 77.4 | 79.6 | 76.8 | 73.6 NM_001741.2 |
| 93.7 | 97.4 | 88.2 | 86.6 NM_000728.3 |
| 106.4 | 124.7 | 107 | 107.9 NM_020898.1 |
| 178.5 | 189 | 186.8 | 196.3 NM_005831.3 |
| 84.5 | 82.7 | 88.2 | 86.7 NM_001742.2 |
| 79.6 | 77.9 | 73.5 | 73.3 NM_005795.2 |
| 90.4 | 82.4 | 89.3 | 85.9 NM_033138.2 |
| 1565.5 | 1282.5 | 999.6 | 936.5 NM_006888.2 |
| 8604.4 | 5019.8 | 4535.2 | 4446.5 NM_001743.3 |
| 6290.7 | 4472.3 | 4224.6 | 2483.9 NM_005184.2 |
| 106.1 | 109.9 | 99.8 | 105.8 NM_005185.2 |
| 92.6 | 84.9 | 86.1 | 92.1 NM_001031733.1 |
| 118.1 | 127.9 | 107.8 | 99.3 NM_001031733.1 |
| 741.9 | 694.2 | 603.6 | 500.5 NM_033429.1 |
| 339.9 | 379.6 | 403.1 | 350.2 NM_001031733.1 |
| 87.8 | 83.6 | 82.9 | 84.2 NM_017422.3 |
| 87.8 | 89.6 | 91.4 | 98.5 NM_138705.2 |
| 103.6 | 96.2 | 84.6 | 90.2 NM_001017440.1 |
| 188.3 | 176 | 159.7 | 142.7 NM_031468.2 |
| 111.8 | 110.5 | 109.4 | 102.2 NM_031468.2 |
| 902.6 | 1066.4 | 806.3 | 820.8 NM_004343.2 |
| 101.5 | 96 | 97.8 | 106 NM_145046.2 |
| 423.5 | 597.2 | 413 | 376.1 NM_001219.2 |
| 673.1 | 719.7 | 674.5 | 579.8 NM_003656.3 |
| 165.7 | 152.1 | 124.3 | 119.8 NM_020397.2 |
| 80.8 | 73.8 | 77.6 | 78.9 NM_153498.2 |
| 90.6 | 85.3 | 81.5 | 93.1 NM_020397.2 |
| 95.9 | 91.8 | 97.4 | 98.9 NM_020439.2 |
| 93.4 | 82.6 | 66.5 | 76 NM_171825.1 |

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| 96 | 98.2 | 94.1 | 87.1 NM_172078.1 |
| 157.8 | 171.5 | 147.5 | 137 NM_172080.1 |
| 116.9 | 101.7 | 108.4 | 106.2 XM_936314.1 |
| 87.1 | 80.1 | 80.7 | 80 NM_001220.3 |
| 156.5 | 126.6 | 117.5 | 112.7 NM_172115.1 |
| 145.8 | 119.3 | 104.7 | 119.9 NM_172128.1 |
| 102.9 | 90.6 | 92.9 | 95.6 NM_001221.2 |
| 91.2 | 74.6 | 80.5 | 88.2 NM_172115.1 |
| 203.1 | 209.9 | 227.9 | 155.6 NM_172169.1 |
| 107 | 132.7 | 108.4 | 112.5 NM_172172.1 |
| 94.6 | 80.2 | 80.3 | 91.4 NM_018584.4 |
| 91.6 | 86.1 | 83.3 | 89.9 NM_033259.2 |
| 84.8 | 80.5 | 75.8 | 81 NM_001744.3 |
| 91.1 | 93.7 | 85.5 | 97.4 NM_172207.1 |
| 101.8 | 93.1 | 94.3 | 88.1 NM_032294.2 |
| 97.1 | 112 | 97.5 | 98.9 NM_172215.1 |
| 86.4 | 91.1 | 82.4 | 89.7 NM_172215.1 |
| 103.4 | 178.7 | 214.1 | 125.8 NM_024046.2 |
| 190.4 | 334 | 247.5 | 189.9 NM_004345.3 |
| 491.6 | 553.5 | 538.2 | 380.8 NM_015447.1 |
| 220.2 | 128.3 | 138.4 | 142.4 NM_203459.1 |
| 170.3 | 152.8 | 142.7 | 137.3 NM_015215.1 |
| 75.3 | 78.2 | 87 | 76.7 NM_015099.2 |
| 104.1 | 100.3 | 98.7 | 113.9 NM_018448.2 |
| 99.7 | 97.7 | 92.7 | 90.6 XM_932503.1 |
| 159.8 | 131 | 132.8 | 118.1 NM_012298.1 |
| 495.5 | 557.2 | 427 | 506.6 NM_138793.2 |
| 4609.1 | 4750.2 | 4190.5 | 3572.5 NM_001024649.1 |
| 38084 | 39426.3 | 32247.2 | 32819.7 NM_006367.2 |
| 127 | 136.3 | 119.8 | 119.5 NM_006366.2 |
| 258.5 | 172.7 | 158.7 | 157.4 NM_001747.2 |
| 984.7 | 629.6 | 730.7 | 344.7 NM_005186.2 |
| 237 | 167.8 | 166.3 | 163.1 NM_023083.2 |
| 89.6 | 89.3 | 97.1 | 93.6 NM_023089.1 |
| 93.1 | 97.6 | 89.2 | 90 NM_021251.2 |
| 85.1 | 93 | 90.1 | 101.1 NM_023083.2 |
| 96.2 | 101.6 | 101.3 | 85.7 NM_007058.2 |
| 112.9 | 100 | 115.8 | 111.8 NM_144691.3 |
| 74.4 | 91.6 | 71 | 80.8 NM_144575.2 |
| 209.1 | 196.2 | 173.5 | 152.1 NM_001748.3 |
| 97.2 | 88.2 | 80.6 | 83.8 NM_212464.1 |
| 88.7 | 85.4 | 79.7 | 87.1 NM_212467.1 |
| 200.4 | 184.7 | 207.6 | 174.9 NM_000070.2 |
| 155.8 | 150.6 | 143.9 | 131 NM_173087.1 |
| 86.4 | 106 | 121.8 | 100.2 NM_004055.3 |
| 122.8 | 117.1 | 118.8 | 124.8 NM_014296.2 |
| 82.5 | 82.5 | 86.4 | 94 NM_016452.1 |
| 83.7 | 81.2 | 81.5 | 82 NM_016452.1 |
| 2482.8 | 1272 | 1144.8 | 978 NM_001003962.1 |
| 754.3 | 453 | 384.4 | 383.1 NM_001749.2 |

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| 94.6 | 103.9 | 95.2 | 93.2 NM_032330.1 |
| 92.5 | 95 | 100 | 96.8 NM_004058.2 |
| 116.9 | 133.3 | 146.2 | 95.5 NM_080590.1 |
| 86.8 | 78.5 | 87 | 82.6 NM_032606.2 |
| 88.4 | 78.6 | 86.8 | 86.2 NM_144647.2 |
| 85.1 | 86.6 | 83.2 | 91.5 NM_144647.2 |
| 104.4 | 84.2 | 85.4 | 87.1 NM_144647.2 |
| 2796 | 2185.1 | 1838.9 | 2117.9 NM_006136.2 |
| 86.2 | 88.2 | 81.9 | 96.4 NM_033328.2 |
| 199.8 | 168.6 | 162.6 | 179.2 NM_004930.2 |
| 167.4 | 157.1 | 145.8 | 132.1 NM_014550.3 |
| 120.2 | 138 | 143 | 113 NM_032415.2 |
| 139.4 | 157.7 | 157.7 | 146.3 NM_021209.3 |
| 99.1 | 91.7 | 92.7 | 91.9 NM_052819.1 |
| 78.7 | 76.5 | 74.8 | 75 NM_052819.1 |
| 90.6 | 78.8 | 80.8 | 93.5 NM_024110.2 |
| 185.1 | 288.8 | 251.3 | 251.3 NM_022162.1 |
| 97.2 | 94.9 | 91.4 | 97.5 NM_032587.2 |
| 689.8 | 670.2 | 731 | 644 NM_014959.1 |
| 2792.9 | 2655.2 | 2870.8 | 1340.5 NM_052813.2 |
| 433 | 332.6 | 286 | 308.6 NM_017632.1 |
| 2032.8 | 1217 | 1258.3 | 724.8 NM_014316.1 |
| 320.2 | 349.7 | 354.7 | 206.8 NM_013276.2 |
| 1879.7 | 1350.5 | 1153.4 | 837.8 NM_199141.1 |
| 101.9 | 121.1 | 110.5 | 108.6 NM_001751.4 |
| 421.1 | 350.3 | 368.8 | 261.5 NM_001014438.1 |
| 104.9 | 95.5 | 102.1 | 96.4 NM_004291.2 |
| 113.3 | 182.3 | 177.5 | 214.8 NM_006982.1 |
| 87.1 | 89.9 | 89.8 | 86.4 NM_018272.2 |
| 114.3 | 115.5 | 110.3 | 118.6 NM_178816.2 |
| 101.4 | 112.1 | 85.8 | 95 NM_201377.1 |
| 340.3 | 429.3 | 332.9 | 307.4 NM_007359.3 |
| 156.9 | 147.9 | 137.7 | 153.2 NM_138423.2 |
| 731.6 | 767.2 | 540.7 | 676.3 NM_177974.1 |
| 101.2 | 106.1 | 94.5 | 97.7 NM_144508.2 |
| 194 | 132.8 | 135.6 | 134.8 NM_170589.2 |
| 140.1 | 138.7 | 115 | 122 NM_022900.3 |
| 91.2 | 88.3 | 82.6 | 86.6 NM_003688.1 |
| 91.4 | 85.5 | 85.8 | 96.7 NM_020764.2 |
| 79.5 | 83.3 | 78.1 | 83.1 NM_020753.2 |
| 1015.6 | 686.5 | 602.6 | 484.9 NM_033294.2 |
| 80.3 | 72.9 | 73.8 | 81.5 NM_033292.2 |
| 601.7 | 482.3 | 430 | 353.3 NM_033294.2 |
| 101.6 | 114.1 | 113.2 | 107.2 NM_032974.2 |
| 87.3 | 93.5 | 89.6 | 93.1 NM_001230.4 |
| 93.3 | 85.1 | 85.7 | 88.1 NR_000035.2 |
| 94.9 | 84.5 | 84.6 | 86.6 NM_012114.1 |
| 146.8 | 171 | 155.8 | 133.2 NM_032982.2 |
| 3817.5 | 2918 | 2986.8 | 2572.3 NM_032982.2 |
| 417.1 | 399.9 | 301.5 | 324.5 NM_001224.3 |

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|-------|-------|-------|-------|----------------|
| 650.5 | 450.1 | 468.9 | 320.3 | NM_032991.2 |
| 125.2 | 114 | 121.8 | 118.3 | NM_004346.3 |
| 89.2 | 75.3 | 75.2 | 79.7 | NM_033307.2 |
| 391.3 | 479.1 | 316.3 | 332.1 | NM_033306.2 |
| 101.9 | 95.3 | 84.4 | 84.7 | NM_001225.3 |
| 117.5 | 106 | 106 | 97.5 | NM_033306.2 |
| 90.2 | 95.8 | 94.6 | 94.1 | NM_004347.1 |
| 184.4 | 162.1 | 138.6 | 138.7 | NM_032992.2 |
| 113.9 | 100 | 102.1 | 107.2 | NM_001226.3 |
| 114 | 93.1 | 100.7 | 102.6 | NM_032992.2 |
| 197.4 | 161.5 | 154.8 | 144.5 | NM_033339.3 |
| 91.8 | 83.3 | 80.2 | 89 | NM_033338.4 |
| 85.1 | 79.8 | 77.9 | 80.3 | NM_033340.2 |
| 122.5 | 111.8 | 110 | 109.2 | NM_033356.2 |
| 89.4 | 89.7 | 95.5 | 92.9 | NM_001228.3 |
| 110.1 | 104.4 | 101.5 | 94.8 | NM_033355.3 |
| 122.4 | 123.3 | 123.9 | 108.5 | NM_033358.2 |
| 93.7 | 81.3 | 84.1 | 85.9 | NM_012115.2 |
| 116.9 | 103.5 | 106.9 | 100.4 | NM_001229.2 |
| 222.8 | 237.7 | 206.6 | 169.9 | NM_001229.2 |
| 91.8 | 84.3 | 83.2 | 88.5 | NM_001231.2 |
| 92 | 88.2 | 77.1 | 87.8 | NM_001232.1 |
| 89.6 | 86.3 | 83.3 | 89.8 | NM_000388.2 |
| 183.3 | 209.9 | 204.2 | 240.3 | NM_001750.4 |
| 96.1 | 96.2 | 91.6 | 89.2 | NM_001750.4 |
| 87.2 | 91.4 | 84.7 | 77.5 | NM_173061.1 |
| 222.6 | 307.6 | 263.7 | 293.9 | NM_001042442.1 |
| 88.1 | 78.1 | 87.8 | 81.6 | NM_015576.1 |
| 194 | 197.8 | 190.3 | 127.8 | NM_017766.2 |
| 85.1 | 78.7 | 78.1 | 84.6 | NM_001079843.1 |
| 87.7 | 81.6 | 80.7 | 79.2 | NM_001079843.1 |
| 692.1 | 700 | 585.7 | 629.7 | NM_001752.2 |
| 301.3 | 176.1 | 192.9 | 161.5 | NM_053054.2 |
| 93.4 | 113.6 | 96.8 | 96.5 | NM_054020.2 |
| 79.2 | 86.6 | 74.4 | 79.2 | NM_178019.1 |
| 92.5 | 90 | 84.8 | 89.6 | NM_198137.1 |
| 111.4 | 165 | 161.3 | 166.2 | NM_001753.3 |
| 111 | 129.2 | 114.1 | 107.8 | NM_001233.3 |
| 90.1 | 99.3 | 104.9 | 82.2 | NM_001233.3 |
| 103.3 | 85.9 | 79.3 | 102.6 | NM_001234.3 |
| 83.2 | 85.2 | 83.2 | 77.3 | NM_033337.1 |
| 239.4 | 266.6 | 210.7 | 203.9 | NM_006077.1 |
| 117.8 | 142.3 | 149.7 | 125.2 | NM_005093.3 |
| 91.9 | 90.9 | 90.7 | 90 | NM_005093.3 |
| 104 | 99.3 | 99.1 | 108.4 | NM_001032999.1 |
| 94.3 | 93.7 | 83.5 | 94.1 | NM_005187.4 |
| 110.5 | 105.9 | 106.3 | 116.8 | NM_005187.4 |
| 87.7 | 84 | 71.8 | 80.1 | NM_175931.1 |
| 1653 | 870.4 | 475.6 | 723 | NM_001755.2 |
| 100.2 | 79.4 | 74.2 | 89 | NM_001755.2 |

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| 243.1 | 173.5 | 209.6 | 212.5 NM_005188.2 |
| 182.2 | 299.1 | 320.1 | 198.7 NM_170662.3 |
| 92.2 | 95.4 | 94 | 87.9 NM_012116.2 |
| 708.6 | 474.3 | 519.6 | 352.6 NM_024814.1 |
| 96.1 | 83.9 | 87.8 | 87 NM_004352.1 |
| 69.9 | 80.8 | 74 | 69.2 NM_182511.2 |
| 122.1 | 115 | 114.1 | 107.1 NM_001039771.2 |
| 95.2 | 90 | 85.8 | 94.3 NM_080617.4 |
| 164.2 | 154.3 | 153.7 | 141.3 NM_001757.2 |
| 210.3 | 161.8 | 159.8 | 138.5 NM_001236.3 |
| 276 | 244 | 257.6 | 215.2 NM_032783.3 |
| 1709.2 | 915.7 | 935.3 | 524.6 NM_000071.1 |
| 97.1 | 82.2 | 79.5 | 87.8 NM_018491.3 |
| 99.1 | 89.5 | 84.5 | 78.7 NM_172003.2 |
| 1103.9 | 661.4 | 546.8 | 506.5 NM_001024916.2 |
| 143.2 | 130.6 | 109.5 | 146.3 NM_006807.3 |
| 88.4 | 91.5 | 90.2 | 94.2 NM_032647.2 |
| 82.7 | 79.7 | 82.6 | 90.6 NM_032647.2 |
| 583.2 | 315.1 | 282.7 | 217.8 NM_005189.1 |
| 155.8 | 146 | 132.9 | 119.5 NM_007276.3 |
| 866.8 | 972.6 | 1034 | 726.5 NM_016587.2 |
| 87.5 | 83.9 | 80.5 | 90.2 NM_007276.3 |
| 310.6 | 363.3 | 313.5 | 236.7 NM_003655.2 |
| 565.4 | 433.3 | 322.2 | 302.2 NM_012117.1 |
| 771.9 | 593.4 | 516.8 | 322.1 NM_014292.3 |
| 179.8 | 196.2 | 188.8 | 169.5 NM_175709.2 |
| 134.5 | 132.9 | 123.3 | 119.2 NM_020649.1 |
| 92 | 92.3 | 90.4 | 86.2 NM_015373.3 |
| 111.1 | 111.6 | 104.2 | 102.7 NM_017721.2 |
| 360.4 | 442.3 | 439 | 373.3 NM_032449.1 |
| 228.3 | 265 | 343.1 | 282.3 NM_133459.1 |
| 117.3 | 143.8 | 145 | 115 NM_004059.3 |
| 232.7 | 215 | 197.1 | 188.8 NM_001008661.1 |
| 147.3 | 134.6 | 139.3 | 145.7 NM_001008661.1 |
| 196.2 | 164.7 | 159.4 | 130.9 NM_001296.3 |
| 99.8 | 97.3 | 85.5 | 95 NM_080667.3 |
| 88.9 | 85.6 | 75.3 | 88.8 NM_152389.2 |
| 83.2 | 80.7 | 68.1 | 77.9 NM_152389.2 |
| 107.5 | 91.5 | 93.9 | 93.4 NM_145020.2 |
| 107.7 | 100.8 | 91.2 | 103.8 NM_152775.1 |
| 97.7 | 97.1 | 96.9 | 91.2 NM_173510.1 |
| 1087.6 | 950.7 | 952.7 | 544.8 NM_144716.1 |
| 87.1 | 90.8 | 89.2 | 90.8 NM_024584.2 |
| 231.9 | 188.1 | 178.1 | 166.1 NM_145265.2 |
| 84.6 | 86.3 | 81.6 | 82.2 NM_194300.1 |
| 89.7 | 89.7 | 88 | 92.8 NM_144719.2 |
| 897 | 833.9 | 877.9 | 800.7 NM_022757.3 |
| 746.9 | 790.3 | 613.7 | 718 NM_052857.2 |
| 108.2 | 106.5 | 100.1 | 104.4 NM_152500.1 |
| 97.4 | 95.3 | 100.1 | 95.2 NM_206886.2 |

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| 369.1 | 350.7 | 348 | 161.6 NM_022778.2 |
| 100.6 | 111.9 | 104.2 | 93.5 NM_014008.1 |
| 2412.3 | 2375.6 | 2213.6 | 1902.9 NM_199342.1 |
| 115.5 | 110.9 | 126.4 | 94.9 NM_152499.1 |
| 281.4 | 242.7 | 239.9 | 254.7 NM_001031708.1 |
| 892.5 | 851.3 | 857.5 | 514.9 NM_018246.1 |
| 96.2 | 103 | 107.2 | 102.3 NM_152492.1 |
| 978.7 | 1078.3 | 1230.2 | 844 NM_015439.2 |
| 124.2 | 115.3 | 108.5 | 103.2 NM_024296.3 |
| 98.7 | 94.2 | 94.1 | 92.7 NM_031455.2 |
| 214.2 | 177.6 | 157.3 | 149.7 NM_001080791.1 |
| 1953.9 | 1498.2 | 1427.6 | 934.3 NM_052849.2 |
| 96.7 | 95.8 | 103.5 | 90.3 NM_182791.1 |
| 88.6 | 89.3 | 82.6 | 87.3 NM_080654.2 |
| 338.9 | 344.9 | 356.7 | 291.5 NM_030771.1 |
| 1554.8 | 1658.2 | 1387.8 | 1047.1 NM_030771.1 |
| 92.4 | 81.3 | 79.3 | 87.6 NM_178173.2 |
| 82.1 | 83.7 | 83.3 | 90.2 NM_182628.1 |
| 89.8 | 83.3 | 83.9 | 90.2 NM_182496.1 |
| 142.9 | 102 | 99.7 | 105.6 NM_207406.1 |
| 114 | 114.7 | 100.7 | 101.5 NM_207406.1 |
| 93.2 | 100.2 | 88.8 | 94.1 NM_016122.1 |
| 178.4 | 226.7 | 218.1 | 224.2 NM_016122.1 |
| 74 | 80.7 | 81.7 | 85.3 NM_144681.1 |
| 155.7 | 137.3 | 137.2 | 111.8 NM_144609.1 |
| 725.6 | 622.1 | 535.9 | 360.9 NM_016360.2 |
| 384.3 | 444.4 | 424.8 | 426.3 NM_138363.1 |
| 89.2 | 79.6 | 81.3 | 90.5 NM_145036.2 |
| 82.2 | 81.9 | 76.6 | 78.8 NM_145036.2 |
| 243.2 | 228.1 | 202.9 | 209.4 NM_020198.1 |
| 88.7 | 86.8 | 85.5 | 92.1 NM_024768.1 |
| 403.1 | 413.8 | 354.8 | 305.2 NM_017748.3 |
| 637.4 | 492.2 | 407.6 | 376.9 NM_138443.2 |
| 958.5 | 751.7 | 822.3 | 613.4 NM_174908.2 |
| 79.3 | 80.3 | 78.5 | 81.6 NM_178335.1 |
| 217.2 | 216.6 | 198.6 | 136.5 NM_024661.2 |
| 90.7 | 85.6 | 87.6 | 98.1 NM_144718.2 |
| 717.3 | 543.7 | 429.9 | 577 NM_016053.1 |
| 82.7 | 84.8 | 99.5 | 79.7 NM_032600.2 |
| 184 | 196.7 | 182.8 | 150.5 NM_032141.2 |
| 1839.6 | 1564.3 | 1566.1 | 941.9 NM_001040431.1 |
| 86.8 | 95 | 99.7 | 99.7 NM_198082.2 |
| 785.2 | 525.7 | 409.9 | 464.5 NM_001017928.2 |
| 2986.5 | 3022.7 | 2429.6 | 2565.9 NM_014167.1 |
| 1462.6 | 935 | 864.9 | 636.9 NM_005436.2 |
| 92.3 | 92.4 | 89.9 | 98.5 NM_178499.2 |
| 101.6 | 92.7 | 95.4 | 103.4 NM_201435.2 |
| 91.4 | 87.9 | 81.5 | 85.3 NM_032573.3 |
| 103.5 | 97.5 | 81.6 | 91.8 NM_152591.1 |
| 94.4 | 83.7 | 88.9 | 94.7 NM_207311.1 |

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| 74.6 | 80.5 | 79.5 | 74.6 NM_033124.2 |
| 135.6 | 149.7 | 152.4 | 145.8 NM_001012506.1 |
| 93.2 | 100 | 86.3 | 92.2 NM_181645.2 |
| 96.8 | 97.6 | 91.4 | 91.4 NM_025214.1 |
| 91.3 | 90.9 | 90.5 | 101.1 NM_015621.2 |
| 93 | 92 | 89.3 | 90.5 NM_001026383.1 |
| 77.4 | 81.9 | 82.8 | 76.4 NM_001026383.1 |
| 92.4 | 89 | 85.7 | 91.4 NM_145023.4 |
| 89.1 | 81.7 | 87 | 83 NM_031290.1 |
| 212 | 250 | 216.7 | 191.8 NM_022903.2 |
| 3649 | 3795.3 | 4223.2 | 2787 NM_015933.2 |
| 101.1 | 84.1 | 77.8 | 90.1 NM_138770.1 |
| 112.1 | 88.1 | 88.4 | 99.5 NM_207310.1 |
| 95.4 | 103 | 105.9 | 82.3 NM_174931.1 |
| 552.5 | 329.4 | 271.6 | 356.7 NM_019083.1 |
| 388.2 | 472.2 | 423.6 | 369.7 NM_032358.2 |
| 92.1 | 101.8 | 88.5 | 96.6 NM_032040.1 |
| 91.2 | 84 | 78.7 | 82 NM_001080433.1 |
| 98 | 91.6 | 97.4 | 92.9 NM_015603.1 |
| 2224.1 | 1801.6 | 1732.3 | 1489.7 NM_021825.3 |
| 93.2 | 93.8 | 95.3 | 102 NM_018318.3 |
| 86 | 78.5 | 73.3 | 81.7 NM_019052.2 |
| 95.3 | 91.9 | 84.5 | 88.2 NM_005893.1 |
| 88.1 | 82.2 | 86.9 | 80.8 NM_000729.3 |
| 98.1 | 94.2 | 87.2 | 93.1 NM_000730.2 |
| 84.2 | 97.5 | 89.5 | 92 NM_176875.2 |
| 93 | 79.9 | 83.1 | 78.6 NM_002981.1 |
| 81.3 | 81.3 | 78.4 | 80.5 NM_002986.2 |
| 83 | 106.9 | 90.7 | 85.6 NM_005408.2 |
| 86.4 | 86.5 | 87.6 | 87.4 NM_004167.3 |
| 85.8 | 86 | 85.4 | 83.9 NM_032965.2 |
| 89.1 | 93.1 | 89.8 | 89.5 NM_004590.2 |
| 92.2 | 81.8 | 79.3 | 89.5 NM_002987.2 |
| 80.9 | 82.7 | 71.8 | 79.8 NM_002988.2 |
| 104.2 | 102.7 | 91.9 | 93.2 NM_006274.2 |
| 149.7 | 182.1 | 134.8 | 139.4 NM_002982.3 |
| 98.6 | 113.2 | 89.4 | 100.5 NM_004591.1 |
| 94.4 | 90.1 | 88.3 | 95.1 NM_002989.2 |
| 136.1 | 125.3 | 138.9 | 110.7 NM_002990.3 |
| 177.2 | 185.3 | 186.4 | 148.6 NM_005064.3 |
| 841.8 | 664.6 | 723.3 | 419.4 NM_005064.3 |
| 81.5 | 81.4 | 83.7 | 79.2 NM_002991.2 |
| 91.6 | 86.8 | 81.1 | 87.5 NM_148888.1 |
| 87.8 | 72.3 | 83.7 | 83.7 NM_005624.2 |
| 92.2 | 106.7 | 93.9 | 84 NM_006072.4 |
| 90.3 | 87 | 97.1 | 100.1 NM_006664.2 |
| 91.2 | 89.2 | 81.4 | 85.1 NM_148672.2 |
| 100.5 | 99.3 | 91.5 | 100.3 NM_002983.1 |
| 110.9 | 95 | 88.3 | 104 NM_021006.4 |
| 169.3 | 161.2 | 159 | 189.1 NM_001001437.3 |

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| 86.9 | 81.8 | 86.6 | 97.5 NM_001001435.2 |
| 4471.3 | 2558.1 | 2883.9 | 1263 NM_002985.2 |
| 81.9 | 83.7 | 85.8 | 86.8 NM_006273.2 |
| 99.2 | 94.6 | 85.1 | 91.5 NM_005623.2 |
| 116.9 | 111 | 101 | 103.8 NM_031443.3 |
| 153.1 | 164.1 | 171.8 | 162.8 NM_001029835.1 |
| 1148.1 | 1443.7 | 1642 | 750.8 NM_031443.3 |
| 993.2 | 328 | 314.8 | 300.2 NM_003914.2 |
| 1883.5 | 949.9 | 617.9 | 613.3 NM_001237.2 |
| 245.7 | 187.8 | 131.5 | 139.7 NM_031966.2 |
| 1998 | 1002.5 | 957.4 | 734.3 NM_182851.1 |
| 98.2 | 86.1 | 91.4 | 101.3 NM_182852.1 |
| 92.4 | 88.6 | 85.5 | 89.2 NM_182851.1 |
| 928.3 | 537.9 | 455.5 | 350.6 NM_021178.2 |
| 2388.3 | 1017.3 | 961.7 | 727.9 NM_004701.2 |
| 90.7 | 84.4 | 79.2 | 85 NM_033031.1 |
| 84.7 | 89.2 | 82 | 94.4 NM_033670.2 |
| 97.4 | 102.6 | 86.8 | 95.8 NM_033031.1 |
| 772.6 | 665.4 | 615.1 | 476.2 NM_005190.3 |
| 963.5 | 858.6 | 626.8 | 808.6 NM_001013399.1 |
| 345.9 | 208.4 | 192.2 | 229.7 NM_005190.3 |
| 278.9 | 186.7 | 165 | 122.6 NM_053056.1 |
| 93.2 | 83.3 | 97.7 | 93.2 NM_001759.2 |
| 10569.5 | 8586.1 | 7850 | 3518.9 NM_001760.2 |
| 98.1 | 104.2 | 93.6 | 89.4 NM_012142.2 |
| 102.6 | 101.4 | 107.9 | 96.3 NM_037370.1 |
| 3038 | 2418.8 | 2419.1 | 1861 NM_037370.1 |
| 731.1 | 628.6 | 615.2 | 425.3 NM_001238.1 |
| 107 | 81.7 | 90.1 | 89 NM_001238.1 |
| 97.3 | 83.9 | 86.6 | 87.7 NM_057749.1 |
| 1234.2 | 909 | 656.4 | 829.2 NM_057735.1 |
| 1219 | 643.5 | 593.6 | 330.4 NM_001761.1 |
| 1084 | 819.2 | 978.5 | 851.2 NM_199246.1 |
| 79.7 | 82.3 | 82.7 | 89.9 NM_199246.1 |
| 173.4 | 173.5 | 186.1 | 175.1 NM_004354.1 |
| 258.9 | 194.6 | 164.7 | 145.3 NM_001239.2 |
| 7880.7 | 6879.3 | 5667.5 | 3188.9 NM_006835.2 |
| 106.4 | 83.2 | 78.1 | 80.9 NM_019084.2 |
| 996.9 | 773.1 | 674 | 686.8 NM_003858.2 |
| 599.1 | 751.1 | 838 | 588.8 NM_020307.2 |
| 114.9 | 119.2 | 128.3 | 110.8 NM_030937.3 |
| 115.8 | 118.1 | 106.1 | 99 NM_001240.2 |
| 110.2 | 100.5 | 89.5 | 106.6 NM_001241.2 |
| 271.4 | 310.2 | 240.9 | 267.7 NM_001241.2 |
| 97.3 | 96.8 | 83.3 | 94.1 NM_058241.1 |
| 1104.4 | 1083.9 | 1117.9 | 571.7 NM_145012.3 |
| 343.7 | 389.1 | 344.6 | 315.8 NM_152523.1 |
| 116.3 | 106.6 | 101.4 | 120.1 NM_020739.2 |
| 538.9 | 593.6 | 493.6 | 525.5 NM_004748.3 |
| 312.5 | 313 | 252.7 | 265.9 NM_001295.2 |

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| 94.4 | 88.7 | 98 | 82.4 NM_016602.1 |
| 93.1 | 94.3 | 83 | 92.2 NM_000647.4 |
| 233.3 | 147.7 | 129.1 | 133.7 NM_000647.4 |
| 93.4 | 96.9 | 95.7 | 94 NM_178329.1 |
| 84.2 | 88.3 | 78.4 | 89.7 NM_001837.2 |
| 82.2 | 79.8 | 76.6 | 80.9 NM_005508.4 |
| 85.3 | 87.2 | 93 | 89 NM_000579.2 |
| 10945.3 | 14244.1 | 18412.4 | 15212 NM_031409.2 |
| 83.2 | 84.1 | 82.1 | 87 NM_031409.2 |
| 82.1 | 90.2 | 90.7 | 94.8 NM_001838.2 |
| 88.5 | 92.5 | 80.1 | 87.7 NM_005201.2 |
| 95.3 | 81.8 | 84.8 | 89.1 NM_031200.1 |
| 77 | 72 | 80.7 | 76.1 NM_031200.1 |
| 412.1 | 340.1 | 402 | 201.6 NM_012119.3 |
| 187.9 | 159.9 | 152.5 | 155.5 NM_178432.1 |
| 95 | 93.6 | 79.3 | 85.3 NM_016557.2 |
| 103.4 | 90.3 | 99.3 | 90.9 NM_178445.1 |
| 93.4 | 87.8 | 82.4 | 100 NM_178445.1 |
| 88.1 | 86.6 | 92.8 | 84.3 NM_003965.4 |
| 309.8 | 250.2 | 221.6 | 182.1 NM_012118.2 |
| 364.3 | 252.1 | 263.3 | 194.8 NM_005125.1 |
| 203.1 | 192.9 | 227.4 | 150.4 NM_005125.1 |
| 3709 | 3264.5 | 2101.4 | 2026.5 NM_006431.2 |
| 281.9 | 235.2 | 287.8 | 177.8 NM_001008800.1 |
| 3390.1 | 2329.7 | 1880.8 | 1398 NM_005998.3 |
| 412.7 | 311.2 | 280.6 | 238.9 NM_006430.2 |
| 157.7 | 134.7 | 130.6 | 116.7 NM_012073.3 |
| 997.2 | 628.3 | 436.9 | 440.8 NM_001762.3 |
| 1082.7 | 628.3 | 483.3 | 533.6 NM_001009186.1 |
| 1371.5 | 997.1 | 706.6 | 818.5 NR_003110.2 |
| 166.2 | 150.8 | 140.1 | 141.6 NM_006584.2 |
| 6622.2 | 5771.5 | 5063.6 | 3462.4 NM_001009570.1 |
| 572.6 | 565 | 561.6 | 453.6 NM_006429.2 |
| 1927.6 | 1526.6 | 1166.6 | 1093.8 NM_006429.2 |
| 7975.9 | 4649.3 | 3718.8 | 4116.6 NM_006585.2 |
| 103.6 | 108.5 | 98.9 | 109.3 NM_133493.1 |
| 277.9 | 1853.9 | 1555.3 | 726.4 NM_001040021.1 |
| 118.7 | 270.8 | 228.3 | 201.5 NM_000591.1 |
| 340.1 | 345.5 | 290.1 | 259.3 NM_004357.3 |
| 3827.6 | 3132.7 | 2805.6 | 1752.5 NM_139030.3 |
| 141.6 | 126.1 | 122.6 | 116.5 NM_139030.2 |
| 95 | 82.3 | 81.1 | 92.3 NM_007053.2 |
| 88.9 | 99.1 | 90.4 | 83.1 NM_203416.1 |
| 96.1 | 97.1 | 82.3 | 93.2 NM_004244.3 |
| 152.1 | 131.5 | 120.4 | 131.2 NM_006016.3 |
| 89.8 | 82.2 | 74.6 | 83.2 NM_207397.1 |
| 87.7 | 86.1 | 86.1 | 86.9 NM_020406.1 |
| 94.9 | 86.1 | 81.4 | 97.8 NM_005582.1 |
| 176.6 | 127.3 | 121.7 | 123.3 NM_001770.3 |
| 87.1 | 80.6 | 81.2 | 78.8 NM_001763.1 |

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| 92.5 | 86.7 | 92.8 | 90 NM_001764.1 |
| 105.5 | 101.8 | 94.3 | 94.2 NM_001765.1 |
| 324.3 | 394.9 | 204.5 | 208.2 NM_001766.2 |
| 92.7 | 102.5 | 85.5 | 96.2 NM_030893.1 |
| 87.8 | 91.9 | 80.7 | 83 NM_001042586.1 |
| 90.7 | 85.9 | 81 | 84.3 NM_001767.2 |
| 110.9 | 107.9 | 109.6 | 85.4 NM_001004196.1 |
| 76.5 | 74.5 | 74.2 | 75.8 NM_001004196.1 |
| 103.8 | 79.3 | 80.1 | 85.2 NM_138940.2 |
| 91.6 | 88.7 | 94.5 | 81.8 NM_001008784.1 |
| 89.9 | 91.4 | 85.7 | 91.6 NM_015717.1 |
| 375.3 | 259.5 | 238.7 | 214.4 NM_021155.2 |
| 86.5 | 87.9 | 83.2 | 87.9 NM_001771.1 |
| 85.9 | 78.6 | 71.2 | 83.3 NM_006566.1 |
| 96.1 | 160.2 | 224.4 | 170 NM_013230.2 |
| 183.4 | 153.1 | 135.5 | 117.9 NM_016382.2 |
| 120.2 | 96.2 | 99.7 | 100.8 NM_198053.1 |
| 110 | 97.5 | 101.3 | 105.4 NM_198053.1 |
| 92.4 | 89.8 | 87 | 81 NM_020404.2 |
| 102 | 96.4 | 90.8 | 91.8 NM_014143.2 |
| 422.7 | 475.7 | 392.2 | 383.9 NM_001024736.1 |
| 97.2 | 113.2 | 108 | 103.8 XM_945867.1 |
| 123.4 | 110 | 110.3 | 114.5 NM_012120.1 |
| 1466.3 | 1053 | 1026.6 | 615.9 NM_006110.1 |
| 181.6 | 299.2 | 242.3 | 249.7 NM_007261.2 |
| 161.6 | 146 | 159.5 | 106.4 NM_006678.2 |
| 87 | 94.5 | 93 | 93.3 NM_181449.1 |
| 89 | 100.7 | 89.7 | 87.5 NM_174892.1 |
| 484.7 | 687.6 | 612.2 | 257.6 NM_139018.2 |
| 130.9 | 234.8 | 174.9 | 147 NM_145273.2 |
| 83.4 | 88.8 | 82.1 | 93.3 NM_014880.3 |
| 424.5 | 281.1 | 240.1 | 187.6 NM_016579.2 |
| 1098 | 1016.4 | 789.7 | 607.9 NM_001772.2 |
| 92.8 | 98.1 | 84.3 | 87.5 NM_213602.1 |
| 96.3 | 94.8 | 92.4 | 86.4 NM_001773.2 |
| 85 | 83.7 | 79.5 | 84.2 NM_001773.1 |
| 88.6 | 91.1 | 90.7 | 87.4 NM_001773.2 |
| 76.8 | 81.3 | 81.3 | 75.1 NM_001025109.1 |
| 250.9 | 463.7 | 307.9 | 347.2 NM_001001548.1 |
| 476.5 | 556.5 | 471.6 | 539.3 NM_001001548.1 |
| 84 | 80.4 | 91.2 | 83.3 NM_001001547.1 |
| 1068.9 | 596.9 | 635.8 | 431.1 NM_001774.1 |
| 1353.4 | 733.6 | 722.2 | 784 NM_001774.1 |
| 166 | 122.7 | 122.7 | 116.5 NM_001775.2 |
| 86.7 | 82.5 | 84.6 | 88.5 NM_000732.4 |
| 92.1 | 89.7 | 86.2 | 89.7 NM_001040651.1 |
| 96.2 | 101.7 | 92.1 | 99.5 NM_000733.2 |
| 131.6 | 107.7 | 99.3 | 93.4 NM_012099.1 |
| 87.3 | 79.4 | 81.4 | 88.4 NM_000073.1 |
| 176.2 | 169.6 | 134 | 140.8 NM_000616.2 |

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| 87.2 | 92.6 | 82.7 | 88.6 NM_152854.2 |
| 107.2 | 125.8 | 109.6 | 119.7 NM_001250.3 |
| 90.2 | 86.1 | 85.3 | 85.6 NM_000074.2 |
| 103.3 | 107.3 | 112.2 | 115.4 NM_000610.3 |
| 205 | 252.2 | 200.9 | 226.1 NM_001001392.1 |
| 2135.1 | 2028.8 | 1937.9 | 1438.1 NM_001001390.1 |
| 1064 | 928.2 | 794.8 | 784.4 NM_172358.1 |
| 471.6 | 489.9 | 440.1 | 426.9 NM_001025080.1 |
| 99.6 | 98.1 | 92 | 91.4 NM_001777.3 |
| 93.3 | 91.1 | 87.6 | 79.1 NM_001778.2 |
| 91.9 | 96 | 89.2 | 83.5 NM_014207.2 |
| 475.9 | 3959.8 | 2995.3 | 2247.5 NM_001803.2 |
| 238.3 | 193.7 | 181.7 | 168.9 NM_000560.2 |
| 287.6 | 250.1 | 181.7 | 204.1 NM_000560.2 |
| 220.5 | 186.4 | 146.3 | 160.6 NM_000574.2 |
| 717.3 | 397.2 | 307.3 | 341.3 NM_001779.1 |
| 96.7 | 102.6 | 97.6 | 90.3 NM_203329.1 |
| 98.1 | 95.1 | 85.2 | 85.6 NM_203331.1 |
| 87.9 | 88.6 | 76 | 77.3 NM_005894.1 |
| 116.3 | 128.8 | 124.2 | 110.1 NM_006725.2 |
| 351.2 | 364.9 | 248.4 | 277.9 NM_001780.3 |
| 580.1 | 1287.1 | 1152.5 | 1035.6 NM_001251.2 |
| 217 | 549.7 | 498 | 443.9 NM_001251.2 |
| 88.2 | 90.6 | 86.3 | 86.8 NM_001781.1 |
| 98.6 | 96 | 88.7 | 92.6 NM_006137.6 |
| 100.6 | 98.2 | 96.2 | 102.6 NM_001782.1 |
| 816.3 | 719.3 | 646.5 | 648.9 NM_001025158.1 |
| 98 | 92.3 | 91.9 | 84.2 NM_001025159.1 |
| 319.1 | 227.2 | 225.5 | 248.3 NM_004355.2 |
| 95.3 | 92.7 | 95.1 | 95.9 NM_001783.2 |
| 109.6 | 113.5 | 106.1 | 106.2 NM_001783.2 |
| 80.9 | 87.4 | 86 | 80.1 NM_021601.3 |
| 158.4 | 143.3 | 128.8 | 107.3 NM_001039933.1 |
| 131 | 114.9 | 104.2 | 108.7 NM_021602.1 |
| 108.5 | 92 | 87.4 | 88 NM_000626.1 |
| 88.6 | 95.7 | 90.6 | 85.8 NM_005191.2 |
| 16319.6 | 11597.9 | 11100.7 | 5857.1 NM_004356.3 |
| 178.9 | 242 | 226.3 | 201 NM_001024844.1 |
| 120.9 | 120.5 | 121.9 | 116.4 NM_002231.3 |
| 200.4 | 150.6 | 131.6 | 142.7 NM_004233.2 |
| 132.8 | 98.4 | 97.9 | 107.5 NM_004233.3 |
| 85.1 | 98.9 | 96.9 | 99.2 NM_003874.1 |
| 101.8 | 139.1 | 126.7 | 121.9 NM_175862.2 |
| 110.5 | 359.7 | 294 | 204 NM_175862.2 |
| 102.3 | 93.1 | 93.3 | 99.9 NM_006889.2 |
| 87.1 | 86.4 | 80.3 | 85.3 NM_001768.4 |
| 84.6 | 89.9 | 81.2 | 90.1 NM_001768.4 |
| 80.5 | 81.9 | 94.9 | 79.9 NM_171827.2 |
| 80.7 | 80.8 | 85.1 | 80.3 NM_004931.3 |
| 87.8 | 84.7 | 91 | 97.2 NM_172213.1 |

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|---------|--------|--------|--------|----------------|
| 94 | 92.1 | 97.7 | 90.8 | NM_172101.1 |
| 95 | 88.3 | 82.2 | 83.4 | NM_172099.1 |
| 106.4 | 99 | 111.5 | 109.2 | NM_001769.2 |
| 86.3 | 86.1 | 76.6 | 86.3 | NM_198196.1 |
| 105.7 | 85.5 | 83.9 | 84.5 | NM_005816.4 |
| 123.2 | 129.3 | 95 | 109.9 | NM_001784.3 |
| 1141 | 619.3 | 709.3 | 363.1 | NM_078481.2 |
| 384 | 359 | 363.2 | 305.4 | NM_002414.3 |
| 308.7 | 315.2 | 276.7 | 213.2 | NM_134446.2 |
| 2387.1 | 2549.5 | 2380.3 | 1186.3 | NM_134445.2 |
| 151.3 | 114.9 | 122.9 | 109.2 | NM_001785.1 |
| 105.9 | 109.1 | 98 | 107.2 | NM_030911.1 |
| 374.9 | 327.3 | 338.9 | 272.3 | NM_138477.2 |
| 2915.5 | 3888.1 | 5741.1 | 3157.6 | NM_138477.2 |
| 91.8 | 90.2 | 94.9 | 99.5 | NM_003672.2 |
| 101.5 | 91.9 | 92 | 97.7 | NM_033313.1 |
| 91.1 | 81.5 | 85.4 | 84.8 | NM_033312.1 |
| 93.7 | 98.5 | 97 | 115.9 | NM_033313.1 |
| 133.6 | 135.4 | 134.6 | 130.9 | NM_033331.1 |
| 332 | 353.7 | 289.2 | 238.3 | NM_033331.1 |
| 155.6 | 1541.5 | 1533 | 978.5 | NM_003671.2 |
| 1402.6 | 1369.1 | 977.8 | 799.4 | NM_001078645.1 |
| 711 | 561 | 549.6 | 387.1 | NM_003903.2 |
| 2309 | 1665.7 | 1675.8 | 1098 | NM_001078645.1 |
| 999.2 | 483.1 | 524.4 | 323.8 | NM_033379.2 |
| 198.1 | 138.6 | 132.9 | 115.9 | NM_001786.2 |
| 8821.8 | 4493.8 | 4229.4 | 1939.4 | NM_001255.1 |
| 1117.6 | 899 | 744.5 | 709.7 | NM_004661.2 |
| 687 | 454.1 | 342.4 | 320.7 | NM_001789.2 |
| 145.5 | 182.6 | 155 | 139.5 | NM_001789.2 |
| 612.5 | 333.7 | 287.6 | 254.2 | NM_004358.3 |
| 354.7 | 217.8 | 211.6 | 188.6 | NM_001790.3 |
| 265.1 | 200.6 | 221.1 | 167.3 | NM_001790.3 |
| 314.5 | 204 | 199.2 | 167.8 | NM_001790.3 |
| 1708.6 | 1059.6 | 1012.9 | 814.4 | NM_139286.3 |
| 105.7 | 84.9 | 87 | 83.7 | NM_001256.2 |
| 82 | 82 | 74.7 | 81.4 | NM_033487.1 |
| 103.9 | 89.6 | 94 | 90.4 | NM_033531.1 |
| 269.7 | 343.2 | 340.5 | 285.5 | NM_031267.1 |
| 401.5 | 388.9 | 390.3 | 381.1 | NM_003718.2 |
| 1176.2 | 1670.6 | 1880.8 | 1034 | NM_015076.3 |
| 297.3 | 194.7 | 161.3 | 157.7 | NM_004359.1 |
| 10147.2 | 8948.1 | 9193.7 | 5049.2 | NM_007065.3 |
| 91 | 96.4 | 83.6 | 87.4 | NM_017913.2 |
| 1330.9 | 1181.6 | 1088.6 | 930.6 | NM_015891.2 |
| 79.8 | 90.1 | 86 | 81.5 | NM_044472.1 |
| 94.5 | 88.8 | 83.8 | 88 | NM_001039802.1 |
| 285.7 | 217 | 180.8 | 158.3 | NM_044472.1 |
| 423.1 | 329.9 | 269.8 | 336.5 | NM_001791.2 |
| 135.9 | 94.8 | 84.1 | 90.2 | NM_014826.3 |

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| 88.3 | 77.5 | 72 | 85.1 NM_003607.2 |
| 116.1 | 136 | 140.2 | 155.9 NM_006035.2 |
| 78.4 | 77.5 | 80.8 | 82.7 NM_017525.1 |
| 98.4 | 97 | 81.3 | 95.8 NM_007061.3 |
| 124.7 | 101 | 100.1 | 105.9 NM_007061.3 |
| 112.3 | 97.7 | 99.2 | 97.5 NM_006779.2 |
| 197.1 | 119.2 | 124.7 | 112.5 NM_006449.3 |
| 615.8 | 881 | 936.1 | 493.4 NM_012121.4 |
| 92 | 98.5 | 85.1 | 86.2 NM_145057.2 |
| 444 | 270.8 | 211.4 | 241.6 NM_001038707.1 |
| 157.7 | 113.8 | 126.2 | 108.7 NM_020239.2 |
| 148 | 126.6 | 126.1 | 126.9 NM_020240.1 |
| 675.3 | 711.1 | 650.3 | 692.9 NM_001038702.1 |
| 1778.1 | 1837.2 | 1736.4 | 1216.9 NM_003504.3 |
| 440.8 | 431.6 | 412.2 | 440.4 NM_001253.2 |
| 140.6 | 125.1 | 116.8 | 124.9 NM_001254.3 |
| 263.4 | 302 | 245.9 | 233.9 NM_003503.2 |
| 97.9 | 91.3 | 100.2 | 94.7 NM_024529.3 |
| 264.2 | 285.4 | 293.5 | 195.7 NM_080476.4 |
| 175.7 | 163.2 | 150.3 | 123 NM_145697.1 |
| 566.4 | 323.2 | 233 | 239.7 NM_152562.2 |
| 242.4 | 153.3 | 147.6 | 177.5 NM_031299.3 |
| 122.6 | 105.4 | 102 | 101.4 NM_145701.1 |
| 577.8 | 326 | 302.9 | 221.2 NM_017955.2 |
| 423.5 | 238.2 | 226.9 | 162.5 NM_017955.2 |
| 2655.9 | 1497.6 | 1411.1 | 868.4 NM_080668.2 |
| 3325.2 | 1935.2 | 2032.2 | 1223.2 NM_145810.1 |
| 87.1 | 81.3 | 88.4 | 87.9 NM_031942.3 |
| 419.5 | 241.9 | 222.8 | 203.4 NM_018719.2 |
| 745.8 | 430.6 | 370 | 337.2 NM_018101.2 |
| 108.4 | 106.8 | 103.1 | 102.1 NM_178181.1 |
| 94.8 | 85 | 87.5 | 91.6 NM_022842.3 |
| 86.7 | 90 | 82.9 | 78.4 NM_178181.1 |
| 86.8 | 85.1 | 69.9 | 82.4 NM_201546.2 |
| 80.6 | 86.2 | 79.2 | 96.8 NM_020754.1 |
| 84.1 | 84 | 83.2 | 77.2 NM_004360.2 |
| 97.5 | 86.8 | 90.4 | 88.6 NM_006727.2 |
| 104.6 | 101.6 | 109 | 97.2 NM_001797.2 |
| 91.6 | 84.8 | 75 | 81.7 NM_004061.2 |
| 107.5 | 101.3 | 94.7 | 91.5 NR_002209.1 |
| 88.2 | 82.6 | 77.9 | 88.5 NM_001257.3 |
| 107.9 | 111.3 | 104.7 | 102.3 NM_004933.2 |
| 95.9 | 98.4 | 101.4 | 83 NM_004062.2 |
| 87.5 | 81.4 | 80.9 | 87.4 NM_004063.2 |
| 79.9 | 75.2 | 72.4 | 80.2 NM_004934.2 |
| 75.7 | 86.6 | 80.4 | 83.1 NM_021153.2 |
| 600.1 | 526.2 | 507.8 | 385.2 NM_001792.2 |
| 100.6 | 100 | 91 | 87 NM_031891.2 |
| 89.6 | 82.6 | 76.3 | 84.4 NM_021248.1 |
| 109.3 | 128.1 | 111.5 | 111 NM_052836.1 |

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| 106.4 | 97.3 | 95.1 | 101.4 NM_052836.1 |
| 97.9 | 131.9 | 133.1 | 122.9 NM_022124.2 |
| 103 | 89.9 | 84.3 | 93.6 NM_144985.2 |
| 96.2 | 83.3 | 95.6 | 80.4 NM_022478.2 |
| 79.7 | 81.9 | 70.9 | 85.3 NM_144985.2 |
| 97.3 | 101.8 | 96.9 | 98.3 NM_177980.1 |
| 80.4 | 100.8 | 90.6 | 91.9 NM_021810.3 |
| 99.8 | 80.2 | 86 | 87.7 NM_001793.3 |
| 95.3 | 85 | 80.6 | 81.7 NM_001794.2 |
| 83 | 81.2 | 84.2 | 88.8 NM_001795.2 |
| 81.2 | 90.3 | 76.4 | 79.6 NM_004932.2 |
| 99.4 | 96.2 | 91.2 | 87.1 NM_004361.2 |
| 91.6 | 88.8 | 89.1 | 95.5 NM_033646.1 |
| 98 | 86.3 | 81.3 | 88.8 NM_033646.1 |
| 87 | 73.5 | 85.2 | 82.3 NM_001796.2 |
| 123.6 | 111.2 | 114.6 | 102.3 NM_016279.2 |
| 129 | 116.3 | 114.7 | 110.1 NM_006319.2 |
| 1061.4 | 1250.2 | 1539.7 | 711.5 NM_052988.2 |
| 107.7 | 100.9 | 96.9 | 91.1 NM_003674.2 |
| 252.9 | 220.7 | 209.3 | 170.1 NM_001798.2 |
| 1004.7 | 774.6 | 662.1 | 579.3 NM_001798.2 |
| 219.6 | 179.3 | 165.8 | 145 NM_005851.3 |
| 105.9 | 113.5 | 115.3 | 111.8 NM_001258.1 |
| 1572.3 | 980.7 | 1090.5 | 699.2 NM_000075.2 |
| 188.8 | 262.6 | 238.1 | 168.2 NM_004935.2 |
| 95.3 | 97.8 | 79.7 | 94 NM_003885.2 |
| 86.5 | 93.7 | 85.2 | 81.1 NM_003936.3 |
| 492.3 | 518.6 | 527.2 | 336.2 NM_016408.2 |
| 115.7 | 110.7 | 107.3 | 98 NM_016408.2 |
| 206.2 | 234.5 | 204.3 | 172.4 NM_001011649.1 |
| 1201.1 | 1181 | 1134.4 | 579.1 NM_001011649.1 |
| 112.1 | 101.6 | 101.3 | 105.5 NM_018249.4 |
| 1141.9 | 1475.9 | 1407.5 | 1219.5 NM_025197.2 |
| 280.6 | 301.1 | 287.2 | 275.7 NM_176095.1 |
| 1207.7 | 1513.4 | 1392.9 | 1212.2 NM_176096.1 |
| 1445.9 | 1650.5 | 1766.5 | 974.6 NM_001259.5 |
| 347.1 | 357.3 | 258.6 | 236.9 NM_001799.2 |
| 146 | 156.3 | 123.2 | 126.3 NM_001260.1 |
| 363.9 | 366.5 | 352.8 | 262.1 NM_001261.2 |
| 155 | 155.2 | 127.6 | 115.5 NM_017774.1 |
| 130 | 99.8 | 98 | 97.7 NM_004196.3 |
| 79.1 | 70.3 | 80.2 | 78.6 NM_003948.2 |
| 260.1 | 246.4 | 224.1 | 214.3 NM_016508.2 |
| 85.9 | 94.2 | 88.7 | 87 NM_001009565.1 |
| 88.2 | 95.8 | 81.5 | 86 NM_003159.1 |
| 90.5 | 90 | 92.2 | 83.4 NM_003159.2 |
| 96.6 | 94.7 | 82.2 | 82.4 NM_003159.2 |
| 294.1 | 508 | 391.1 | 264.7 NM_078467.1 |
| 94.1 | 91.4 | 88.8 | 92.5 NM_078467.1 |
| 234.8 | 243.7 | 220.7 | 227.5 NM_004064.2 |

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| 94.7 | 122.2 | 102.3 | 110.3 NM_000076.1 |
| 94.8 | 89.8 | 81.4 | 77.1 NM_058197.2 |
| 89.8 | 84.4 | 81.9 | 90.8 NM_058195.2 |
| 86 | 90.4 | 86.4 | 87.5 NM_058197.2 |
| 124.1 | 116.6 | 108.3 | 98.1 NM_078487.2 |
| 92.5 | 85.9 | 81.1 | 89.2 NM_078487.2 |
| 856.2 | 804.7 | 815.4 | 697.1 NM_078626.1 |
| 83.9 | 89.1 | 88.7 | 90.9 NM_001262.2 |
| 126.4 | 111.7 | 94.9 | 93.8 NM_001262.2 |
| 87.9 | 79.9 | 87 | 82.9 NM_001800.3 |
| 219.6 | 173.9 | 159.7 | 143 NM_001800.3 |
| 1069.7 | 507.7 | 442.9 | 420 NM_005192.2 |
| 121.8 | 110.2 | 103.2 | 120.9 NM_001801.2 |
| 99.9 | 84.1 | 68.6 | 77.9 NM_016952.3 |
| 102.1 | 91.9 | 90.6 | 94.6 NM_016952.3 |
| 107.1 | 87.4 | 88.4 | 82.7 NM_004065.2 |
| 292.7 | 278.5 | 258.6 | 186 NM_001802.1 |
| 305.2 | 257.7 | 272.1 | 160.6 NM_014603.1 |
| 87.1 | 93.4 | 91.2 | 96.2 NM_006382.1 |
| 88.2 | 87 | 76.7 | 90.2 NR_003261.1 |
| 144.7 | 117.1 | 133 | 104.5 NM_001263.2 |
| 224.7 | 198.2 | 171.6 | 172.9 NM_003818.2 |
| 90.3 | 82.9 | 83.8 | 80.2 NM_001264.3 |
| 951.4 | 525.2 | 666.8 | 228.3 NM_030928.2 |
| 781.6 | 828.2 | 673.4 | 668.1 XM_945271.1 |
| 819.5 | 993.6 | 670.7 | 765.8 NM_017548.3 |
| 91.5 | 78.1 | 89.7 | 81.5 NM_001804.1 |
| 88.3 | 88.4 | 81 | 85.7 NM_001265.2 |
| 98.8 | 86.4 | 84 | 87.2 NM_005193.1 |
| 85.6 | 88.4 | 82.9 | 85 NM_004680.2 |
| 85.4 | 90.8 | 82.2 | 78.8 NM_004680.2 |
| 87.1 | 93.7 | 90.7 | 102.3 NM_001003894.1 |
| 88.4 | 82.4 | 86.8 | 90.9 NM_004825.2 |
| 85.4 | 80.1 | 83.8 | 80.4 NM_001001722.1 |
| 145.5 | 135.9 | 130.8 | 115 NM_004824.2 |
| 88.2 | 91.4 | 76.7 | 85.4 NM_004824.2 |
| 106.6 | 94.7 | 92 | 98.9 NM_152342.1 |
| 104.9 | 112.6 | 110.3 | 114.2 NM_001024912.1 |
| 103.8 | 95 | 84.7 | 99.8 NM_001712.3 |
| 83.3 | 93.1 | 83.1 | 87.4 NM_001024912.1 |
| 96.5 | 94.3 | 86.1 | 93.5 NM_020219.2 |
| 80 | 76.5 | 72.4 | 79.5 NM_198444.1 |
| 108.2 | 105.9 | 101 | 94.9 NM_033543.2 |
| 102 | 86.1 | 88.7 | 91.9 NM_001815.1 |
| 100.2 | 107.2 | 96.7 | 104.3 NM_001817.2 |
| 101 | 90.2 | 89.2 | 96.6 NM_004363.1 |
| 287.7 | 141.5 | 144.2 | 126.4 NM_002483.3 |
| 88.8 | 84.4 | 84.9 | 85.3 NM_006890.1 |
| 84.5 | 78.8 | 81.8 | 82.7 NM_001816.2 |
| 6172.2 | 3942.8 | 3409.4 | 3648 NM_004364.2 |

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|--------|--------|--------|--------|----------------|
| 1591.6 | 2546.5 | 2326.5 | 1249.3 | NM_005194.2 |
| 1236.5 | 1482 | 1181.7 | 1121.3 | NM_005195.2 |
| 110.9 | 111 | 115.4 | 99.4 | NM_001805.2 |
| 951.4 | 805 | 693.6 | 557.7 | NM_001806.2 |
| 1600 | 1601.5 | 1226.5 | 1235 | NM_005760.2 |
| 100.4 | 127.8 | 125.7 | 131.7 | NM_017424.2 |
| 806.9 | 1377.7 | 1466.5 | 926.7 | NM_017424.2 |
| 108.8 | 93.5 | 85.1 | 91.1 | NM_177405.1 |
| 179.6 | 187.4 | 151.9 | 144.8 | NM_017829.5 |
| 1523.8 | 1444.5 | 1428 | 860.9 | NM_017829.5 |
| 439.7 | 278.9 | 253.8 | 218.9 | NM_031890.2 |
| 169.9 | 133.7 | 141.5 | 136.4 | NM_016174.3 |
| 87 | 93.8 | 90.6 | 88.4 | NM_178569.2 |
| 147.8 | 127.6 | 115.8 | 117.9 | NM_001807.2 |
| 127.3 | 113 | 116.6 | 104.7 | NM_014246.1 |
| 125.5 | 115.1 | 113.6 | 104.4 | NM_001408.1 |
| 126.2 | 121.4 | 136.4 | 116.8 | NM_001407.1 |
| 94.4 | 89.8 | 91.1 | 84.1 | NM_001048216.1 |
| 1035.8 | 513.3 | 614.8 | 377.7 | NM_001809.2 |
| 424.8 | 241.1 | 244.3 | 189.2 | NM_001042426.1 |
| 2131 | 1798.3 | 1746 | 775.9 | NM_001810.5 |
| 117.7 | 96.3 | 87.4 | 94.9 | NM_001812.2 |
| 149.3 | 157.1 | 180.4 | 119.8 | NM_001813.2 |
| 514 | 446.4 | 376.6 | 292.1 | NM_016343.3 |
| 93.1 | 84 | 93.5 | 101.2 | NM_022909.3 |
| 90.9 | 84.9 | 73.5 | 83.7 | NM_006733.2 |
| 266.1 | 209.6 | 283.2 | 267.7 | NM_018451.2 |
| 974.5 | 720.8 | 833.7 | 441.5 | NM_001002876.1 |
| 369.8 | 290.8 | 295.4 | 238.1 | NM_001002876.1 |
| 112.3 | 100.3 | 100.2 | 91 | NM_024322.1 |
| 2900.4 | 2344.3 | 2557.3 | 1196.5 | NM_006869.1 |
| 376.9 | 334 | 298.6 | 218.2 | NM_018404.1 |
| 108.6 | 181 | 184.7 | 162.9 | NM_014716.2 |
| 244.2 | 310.2 | 280.8 | 232.9 | NM_012287.3 |
| 92.1 | 103.3 | 84.8 | 99.3 | NM_030649.1 |
| 171.8 | 136.6 | 120.7 | 140 | NM_015230.2 |
| 82.2 | 81.9 | 74 | 75.5 | NM_139182.1 |
| 82.2 | 87.7 | 85.9 | 94.2 | NM_015242.2 |
| 143 | 181.6 | 175.9 | 154.8 | NM_015242.2 |
| 174.8 | 218.8 | 239.8 | 157.8 | NM_022481.5 |
| 96.6 | 83.2 | 90.7 | 87.2 | NM_014770.2 |
| 92.9 | 98.7 | 86 | 98.9 | NM_001037131.1 |
| 194.2 | 179.5 | 170.7 | 166.6 | NM_014914.2 |
| 90 | 87.3 | 86.1 | 89.7 | NM_001037131.1 |
| 93.2 | 101.9 | 93.3 | 106.9 | NM_001042535.1 |
| 123.4 | 104 | 100.1 | 94.9 | NM_001042535.1 |
| 337.2 | 388 | 307.2 | 348.6 | NM_031946.3 |
| 453.1 | 445.2 | 392.6 | 369.6 | NM_007018.3 |
| 552.2 | 481.9 | 465.6 | 349.1 | NM_025009.3 |
| 239.5 | 272.9 | 235.4 | 253.6 | NM_014985.2 |

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| 294.7 | 253.7 | 221.5 | 230.1 NM_014956.3 |
| 137.2 | 141.3 | 142.3 | 134.4 NM_014812.2 |
| 98.4 | 101.5 | 99.2 | 104.7 NM_001042404.1 |
| 345.9 | 533.6 | 511.8 | 369.1 NM_032142.2 |
| 110.7 | 99.2 | 110 | 101.9 NM_001035518.1 |
| 120.7 | 134.3 | 112.2 | 107.6 NM_007186.2 |
| 303.2 | 322.4 | 469 | 273.4 NM_018097.1 |
| 124.4 | 152.2 | 125.3 | 181.9 NM_025114.2 |
| 572.4 | 374.5 | 263 | 269 NM_018131.3 |
| 147.9 | 128.2 | 121.7 | 164.8 NM_014679.3 |
| 750.1 | 924.2 | 890.7 | 766.1 NM_025180.2 |
| 88.9 | 91.1 | 88.4 | 93 NM_001042384.1 |
| 92.3 | 89.9 | 85.7 | 86 NM_001042384.1 |
| 90.1 | 106.7 | 99.6 | 91.4 NM_001042400.1 |
| 124.8 | 110.3 | 98.7 | 112.4 NM_015147.1 |
| 160.7 | 129.9 | 142.9 | 122.9 NM_024491.2 |
| 152.1 | 161.2 | 149 | 128.6 NM_018140.2 |
| 126.9 | 121.2 | 111.1 | 117.2 NM_024899.2 |
| 96.4 | 86.4 | 90.6 | 93.6 NM_001007794.1 |
| 352.7 | 210.2 | 172.8 | 166.6 NM_006090.3 |
| 795.3 | 445.3 | 330.2 | 328.3 NM_006090.3 |
| 90.5 | 80 | 80.7 | 86.4 NM_005454.2 |
| 760.2 | 739.8 | 696.7 | 368 NM_182661.1 |
| 353.8 | 395.3 | 445 | 284 NM_182661.1 |
| 113.9 | 115.3 | 106.7 | 120.2 NM_022766.4 |
| 87.1 | 91.4 | 86.4 | 80.7 NM_201548.3 |
| 81.9 | 79.5 | 78 | 89.2 NM_001030311.1 |
| 89.6 | 94.5 | 90.1 | 85 NM_001030313.1 |
| 92.6 | 86.3 | 91.4 | 85.9 NM_001030311.1 |
| 2040.8 | 4194 | 3143.2 | 2911.1 NM_001025195.1 |
| 1106.2 | 813 | 755.2 | 628.2 NM_198061.1 |
| 134.9 | 168.1 | 150.1 | 143.1 NM_003869.4 |
| 94.2 | 103.9 | 91.3 | 96.3 NM_024922.3 |
| 665 | 1106.6 | 936.6 | 661.3 NR_003276.1 |
| 97 | 103.3 | 83.7 | 94.6 NM_145024.1 |
| 81.1 | 98.2 | 77.9 | 88.7 NM_014406.4 |
| 92 | 85.7 | 79.5 | 89.4 NM_004066.1 |
| 2347 | 1327.3 | 1137.7 | 909.6 NM_004344.1 |
| 92.5 | 88.8 | 89.5 | 97 NM_004365.2 |
| 139.7 | 147.4 | 152.4 | 130.4 NM_000078.1 |
| 97.5 | 111.7 | 112.3 | 119.1 NM_001710.4 |
| 82.6 | 77.2 | 74.2 | 88.4 NM_032545.2 |
| 4921.5 | 8998.6 | 9082.6 | 6178.3 NM_001928.2 |
| 147.2 | 119 | 125 | 119.8 NM_006324.2 |
| 83.6 | 75.2 | 86.5 | 77 NM_000186.2 |
| 105.5 | 118 | 106.2 | 103 NM_001014975.1 |
| 105.6 | 80.3 | 80.6 | 85.7 NM_001014975.1 |
| 90.6 | 88.1 | 86.1 | 87.1 NM_002113.1 |
| 104.9 | 118.9 | 103.4 | 96.5 NM_005666.2 |
| 93 | 78.3 | 84.7 | 89.2 NM_021023.4 |

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| 84.9 | 83.9 | 83.3 | 85.2 NM_006684.1 |
| 79.1 | 76.5 | 82.9 | 76.2 NM_030787.1 |
| 91.4 | 80.2 | 83.1 | 81.2 NM_000204.1 |
| 6419.4 | 4642.5 | 4120.8 | 2119.7 NM_005507.2 |
| 94.6 | 80.8 | 86.2 | 92.6 NM_138638.1 |
| 83.4 | 91.6 | 84.7 | 86.5 NM_021914.5 |
| 270.7 | 544.6 | 613.8 | 372.1 NM_003879.3 |
| 103.9 | 83.1 | 80.5 | 79.6 NM_000492.2 |
| 126.5 | 175.3 | 140.9 | 140.5 NM_052818.1 |
| 92.9 | 85 | 75.2 | 80.9 NM_001079691.1 |
| 131.1 | 166 | 164.7 | 152.4 NM_001079691.1 |
| 90.9 | 93.3 | 87 | 82.6 NM_000735.2 |
| 99.9 | 103 | 106.3 | 96.7 NM_000737.2 |
| 96.3 | 79.5 | 94.3 | 89 NM_033377.1 |
| 78.9 | 81.7 | 73.4 | 89.2 NM_033378.1 |
| 87.3 | 89 | 82.4 | 89.2 NM_033043.1 |
| 87.2 | 86.9 | 76.8 | 85.6 NM_033142.1 |
| 794 | 533.3 | 546.4 | 427.2 NM_003663.3 |
| 90.8 | 92.3 | 81.7 | 82 NM_001008390.1 |
| 2077.6 | 1752.8 | 1939.6 | 1538.7 NM_003663.3 |
| 89.4 | 88.2 | 79.5 | 90.1 NM_015939.3 |
| 1212.6 | 655.5 | 543.6 | 449.7 NM_016052.2 |
| 97.1 | 81.8 | 89.5 | 91.4 NM_016140.2 |
| 89.7 | 87.3 | 81.5 | 85.3 NM_015964.2 |
| 3272.9 | 2702.2 | 2500.7 | 1463.6 NM_016016.1 |
| 834.5 | 611.7 | 571.9 | 351.5 NM_015703.3 |
| 159.4 | 156.2 | 132 | 116.8 NM_015703.3 |
| 107.3 | 93.3 | 93 | 83.7 NM_020770.1 |
| 134.3 | 134 | 123.6 | 105.1 NM_032866.3 |
| 109.5 | 92.3 | 87.9 | 98.1 NM_006569.2 |
| 194.4 | 177.7 | 166.3 | 140.5 NM_006568.2 |
| 86.9 | 92.5 | 78.9 | 80.9 NM_003956.2 |
| 100.8 | 94.9 | 86.6 | 94.6 NM_024111.2 |
| 142.2 | 96.4 | 112.4 | 110.5 NM_001008708.1 |
| 90.5 | 95.7 | 95 | 85.5 NM_001267.1 |
| 168.9 | 151.1 | 140.2 | 131.7 NM_005483.2 |
| 381.5 | 352.7 | 334.9 | 203.4 NM_005441.2 |
| 113.2 | 98.4 | 85.2 | 96.4 NM_020549.2 |
| 94.7 | 85.8 | 88.4 | 86.1 NM_020984.1 |
| 87.1 | 83.3 | 76.8 | 96.8 NM_020986.2 |
| 87.4 | 78.8 | 74.9 | 79.9 NM_020984.1 |
| 233.5 | 176 | 158.4 | 144.7 NM_203298.1 |
| 8074.9 | 4939.8 | 4655.3 | 4334.1 NM_016139.2 |
| 465.1 | 524.5 | 393.3 | 485.3 NM_017812.1 |
| 745.7 | 704.6 | 621.1 | 437.9 NM_144636.1 |
| 746.1 | 542 | 530.3 | 353 NM_032309.2 |
| 157.8 | 162 | 142.1 | 123.2 NM_032343.1 |
| 136.3 | 100.7 | 100 | 101 NM_001011670.1 |
| 538.2 | 274.2 | 251.6 | 248.2 NM_001011668.1 |
| 243 | 236.5 | 202.6 | 160.8 NM_016565.2 |

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| 331.2 | 373 | 363.8 | 405.6 NM_001270.2 |
| 445 | 444.9 | 350.6 | 302.9 NM_004284.2 |
| 137.7 | 131.7 | 125.7 | 129 NM_001042572.2 |
| 82.5 | 82.2 | 75.5 | 87.3 NM_005852.2 |
| 102 | 92.8 | 95.7 | 94.3 NM_001005273.1 |
| 973.2 | 1077.7 | 998.8 | 783.2 NM_001273.2 |
| 104.6 | 83.3 | 89.8 | 87.6 NM_015557.1 |
| 109.1 | 127.3 | 147.5 | 102.1 NM_032221.3 |
| 406.3 | 419.9 | 318.8 | 321.2 NM_017780.2 |
| 491.8 | 704.8 | 641 | 426.1 NM_020920.1 |
| 502.3 | 785.7 | 724.9 | 668.6 NM_025134.3 |
| 83.4 | 80 | 69.3 | 76.8 NM_018397.1 |
| 870.4 | 426.1 | 358.2 | 306.6 NM_001274.2 |
| 338.1 | 279.9 | 257.6 | 247.5 NM_007194.3 |
| 82.9 | 83.4 | 89.6 | 90.7 NM_001005735.1 |
| 176.5 | 160.9 | 147.3 | 129.7 NM_006387.4 |
| 468.6 | 642 | 462.9 | 487.8 NM_005197.2 |
| 1323.5 | 1165.6 | 1104 | 620.4 NM_018223.1 |
| 97.3 | 94.9 | 95.5 | 101.7 NM_001275.2 |
| 88.8 | 84.6 | 71 | 80.8 NM_001819.1 |
| 85.4 | 86.6 | 78.4 | 87.8 NM_018371.3 |
| 108 | 114.5 | 108.5 | 116.8 NM_001276.1 |
| 100.7 | 101.4 | 89.5 | 106.3 NM_004000.2 |
| 94.9 | 88.9 | 87.1 | 91 NM_001025199.1 |
| 86.3 | 81.5 | 76.2 | 80.2 NM_201653.1 |
| 96.3 | 91.8 | 81.4 | 97.8 NM_021797.2 |
| 87.2 | 95.8 | 89.4 | 95.9 XM_942851.1 |
| 90.9 | 92.4 | 95.2 | 93.5 NM_001039840.1 |
| 1450.6 | 864.7 | 885.8 | 757.5 NM_012110.2 |
| 95.4 | 95.8 | 88.1 | 94 NM_023947.2 |
| 705.4 | 549.9 | 587.6 | 338.1 NM_001277.2 |
| 173.4 | 151.6 | 137.3 | 134.7 XM_942105.1 |
| 692.9 | 748.2 | 723.4 | 663.4 NM_005198.3 |
| 92.5 | 87.8 | 81.4 | 90.5 NM_152253.1 |
| 99.4 | 102.1 | 93.8 | 90.2 NM_006614.2 |
| 93.3 | 92.9 | 79.4 | 88.2 NM_000390.1 |
| 131.8 | 127.3 | 128.2 | 112.8 NM_001821.2 |
| 656.5 | 688.9 | 686.3 | 505.2 NM_020412.3 |
| 188.1 | 173 | 167.7 | 133 NM_198426.1 |
| 235.3 | 203.8 | 188.8 | 148.3 NM_014453.2 |
| 1331.5 | 911.5 | 949 | 575.9 NM_014453.2 |
| 400.7 | 345.9 | 347.9 | 305.3 NM_014043.2 |
| 621.1 | 488.5 | 343.3 | 317.2 NM_014169.2 |
| 817.6 | 667.5 | 566.1 | 437.4 NM_176812.3 |
| 91.2 | 89.7 | 97.3 | 79.2 NM_152284.3 |
| 594.2 | 520.7 | 526.9 | 398.4 NM_016410.2 |
| 246.6 | 224.2 | 218.1 | 146.5 NM_024591.3 |
| 127.4 | 119.9 | 115.5 | 101.4 NM_024591.3 |
| 153.8 | 132.5 | 122 | 116.8 NM_152272.2 |
| 124.4 | 97.2 | 100 | 102.2 NM_001822.3 |

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| 83.9 | 89.2 | 85.5 | 91.1 NM_001822.3 |
| 104.9 | 98.3 | 115.1 | 108.6 NM_004067.1 |
| 119.9 | 148.6 | 139.2 | 122.7 NM_004067.1 |
| 83.1 | 86.9 | 78.2 | 75 NM_004067.1 |
| 111.8 | 91.9 | 82.9 | 98.2 NM_024944.2 |
| 88.6 | 85.9 | 79.1 | 81.7 NM_012124.1 |
| 344.1 | 246.2 | 219.7 | 181.5 NM_007236.3 |
| 138 | 176.8 | 161.7 | 173.7 NM_024536.4 |
| 190.9 | 186.3 | 135.4 | 148.2 NM_020244.2 |
| 89 | 90.8 | 94.6 | 83.9 NM_001014372.2 |
| 238.9 | 184.8 | 173.2 | 160.8 NM_017444.3 |
| 84.1 | 94.4 | 84.3 | 92 NM_177978.1 |
| 86.3 | 83.8 | 75.9 | 87.6 NM_145234.2 |
| 76.3 | 76.6 | 82.9 | 78.9 NM_015424.3 |
| 95.8 | 86.9 | 89.2 | 87.8 NM_139320.1 |
| 93.1 | 86.8 | 84.5 | 92.1 NM_139320.1 |
| 76.3 | 78.2 | 81 | 81.3 NM_139320.1 |
| 76.7 | 90.9 | 78.1 | 83 NM_000738.2 |
| 87.5 | 88.4 | 80 | 81.3 NM_001006630.1 |
| 90.8 | 76.8 | 86 | 93.8 NM_001006626.1 |
| 87.1 | 87.2 | 91.3 | 88.9 NM_000741.2 |
| 87.2 | 81.1 | 83.6 | 85.4 NM_012125.2 |
| 79.7 | 83.4 | 81.1 | 81.8 NM_001039523.1 |
| 100.5 | 113.6 | 125.9 | 120.7 NM_000079.1 |
| 86.6 | 86.5 | 80.8 | 81.4 NM_001039523.1 |
| 98.6 | 90.8 | 83.4 | 81.7 NM_020402.2 |
| 97.7 | 99.7 | 100 | 92.6 NM_000742.1 |
| 95.8 | 103.1 | 100.3 | 94.3 NM_000743.2 |
| 105.4 | 93.5 | 94 | 93.1 NM_000744.2 |
| 1864.5 | 2144.5 | 2668.3 | 2904.4 NM_000745.2 |
| 111.2 | 107.9 | 115.5 | 104.7 NM_004198.2 |
| 89.8 | 96.7 | 86.8 | 95.2 NM_000746.2 |
| 96.1 | 93.6 | 87.1 | 93.3 NM_017581.2 |
| 191.6 | 172.4 | 158.8 | 159.7 NM_000747.2 |
| 88.8 | 85.5 | 80.8 | 74.6 NM_000748.1 |
| 89.3 | 92.6 | 74.7 | 78.3 NM_000749.2 |
| 82.8 | 80.1 | 71.7 | 83.4 NM_000751.1 |
| 101.4 | 88.7 | 86.8 | 90.5 NM_000080.2 |
| 84 | 91.2 | 85.1 | 98.4 NM_005199.4 |
| 93.8 | 86.9 | 81.7 | 83.4 NM_003654.2 |
| 255.7 | 199.1 | 175.6 | 182.6 NM_004854.3 |
| 84.5 | 90 | 82.6 | 87.2 NM_018413.2 |
| 144 | 147 | 181.9 | 126.8 NM_018641.2 |
| 1560.7 | 1176.2 | 1167.7 | 570.4 NM_152889.1 |
| 96.3 | 92.3 | 92.3 | 103.2 NM_004267.3 |
| 150 | 123.7 | 116.9 | 113.1 NM_004273.2 |
| 130.3 | 95.5 | 102.4 | 96.8 NM_005769.1 |
| 91.7 | 88.7 | 85.2 | 78.6 NM_012126.1 |
| 106.3 | 91.6 | 90.5 | 94.5 NM_024533.2 |
| 102.6 | 101.3 | 94.8 | 104.4 NM_021615.3 |

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| 155 | 120.8 | 130.8 | 114.5 NM_019886.2 |
| 94.9 | 95.5 | 87.8 | 93.2 NM_022467.3 |
| 91.7 | 78.4 | 77.9 | 89.8 NM_031422.1 |
| 1441 | 1410.8 | 1544.6 | 1351.7 NM_014918.3 |
| 426.6 | 401.4 | 335.2 | 375.2 NM_022092.1 |
| 479.5 | 334.5 | 273.3 | 232.5 NM_001278.3 |
| 374.4 | 454.7 | 396.7 | 381.4 NM_145165.2 |
| 91.8 | 97.5 | 95.3 | 101 NM_182894.1 |
| 1164.9 | 942.4 | 1069 | 625.1 NM_004804.2 |
| 297 | 205.3 | 167 | 186.7 NM_020313.1 |
| 1206.4 | 925.5 | 870.2 | 605.5 NM_004895.3 |
| 194.5 | 176.2 | 154.2 | 125.8 NM_004895.3 |
| 3943.4 | 3526.7 | 3347.9 | 2171 NM_006384.2 |
| 94 | 85.2 | 90.9 | 86.3 NM_006383.2 |
| 167.4 | 110.7 | 107.4 | 100.5 NM_054113.2 |
| 92.6 | 79.3 | 71 | 78.6 NM_001029881.1 |
| 171.2 | 194.4 | 176.2 | 163.6 NM_015125.2 |
| 108.5 | 93.1 | 92.8 | 102.6 NR_002786.1 |
| 92.2 | 97.7 | 92.9 | 100.2 NM_001080858.1 |
| 92.3 | 89.1 | 91 | 85 NM_198289.1 |
| 89.1 | 88.3 | 81.6 | 85.5 NM_198289.1 |
| 134.8 | 121.5 | 120 | 105.7 NM_014430.1 |
| 100.7 | 86.9 | 91.7 | 92.6 NM_022094.2 |
| 85.8 | 83 | 89.2 | 89.2 NM_000246.2 |
| 84.4 | 80.8 | 81.5 | 85.1 NM_003613.2 |
| 79.4 | 84.7 | 78.3 | 82.1 NM_153221.1 |
| 134.3 | 107.4 | 111.2 | 108.9 NM_032630.2 |
| 3559.9 | 2364.3 | 2126.6 | 1716 NM_033082.1 |
| 153.6 | 158.9 | 161.8 | 141.9 NM_004882.3 |
| 1604.3 | 611.3 | 604.1 | 417.2 NM_001280.1 |
| 1595.7 | 755.1 | 651.9 | 459.3 NM_032830.1 |
| 97.5 | 97.9 | 90.8 | 95.2 NM_145071.1 |
| 83.7 | 86.7 | 80.7 | 84.8 NM_007174.1 |
| 99.8 | 90.2 | 89.3 | 91.6 NM_004143.2 |
| 1281.4 | 796.7 | 794.7 | 705.2 NM_006079.3 |
| 1964.3 | 1107.9 | 1141.6 | 964.5 NM_133467.2 |
| 114.4 | 108.1 | 98.4 | 109.1 NM_012127.2 |
| 754.2 | 521.1 | 459.6 | 385.2 NM_001281.2 |
| 310.9 | 213.2 | 225.7 | 213 NM_018204.2 |
| 1344.8 | 996.8 | 677.3 | 652 NM_006825.2 |
| 2152.1 | 1950.8 | 1581.9 | 1158.8 NM_001008938.1 |
| 167 | 123.8 | 128.4 | 111.3 NM_001008938.1 |
| 166.7 | 105.7 | 108 | 105.8 NM_001823.3 |
| 3574.5 | 2983.8 | 2693.8 | 2000.1 NM_016326.2 |
| 1443 | 1271.7 | 1032.5 | 823.1 NM_001040139.1 |
| 74.5 | 80.9 | 75.7 | 84 NM_001040139.1 |
| 100.9 | 85.1 | 93.9 | 89.2 NM_181521.1 |
| 230 | 196 | 159.1 | 171.8 NM_001824.2 |
| 89.7 | 91.6 | 85.8 | 94.2 NM_001015001.1 |
| 84.5 | 88.2 | 81.1 | 92.8 NM_020990.3 |

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| 90.9 | 85.9 | 75.8 | 81.5 NM_001825.1 |
| 1902.5 | 1132.2 | 1008.2 | 750.4 NM_001826.1 |
| 3896.5 | 1536.2 | 1491.8 | 1424.2 NM_001827.1 |
| 328.7 | 442.1 | 393.4 | 359.3 NM_015282.1 |
| 431.8 | 487.3 | 442.2 | 432.8 NM_015097.1 |
| 99.5 | 94.7 | 91.7 | 87.9 NM_001828.4 |
| 95.1 | 78 | 73 | 92 NM_001285.1 |
| 87.9 | 77.6 | 80.5 | 87.7 NM_006536.4 |
| 87.6 | 95 | 94.5 | 87.3 NM_004921.1 |
| 86.5 | 88.5 | 83.8 | 82.5 NM_012128.2 |
| 80.9 | 89.3 | 84.7 | 85.8 NM_015127.2 |
| 150.5 | 113.6 | 101.4 | 98.9 NM_015127.2 |
| 108.7 | 110.9 | 110.6 | 106.3 NM_013246.2 |
| 87 | 83.5 | 87.2 | 76.7 NM_000083.1 |
| 90.9 | 100.9 | 84.5 | 86.2 NM_004366.2 |
| 84.9 | 83.9 | 80.8 | 88.7 NM_173872.2 |
| 312.2 | 293.9 | 252.4 | 220.2 NM_001829.2 |
| 97.7 | 91.2 | 82.6 | 97.1 NM_001830.2 |
| 92 | 90.9 | 85.8 | 97.2 NM_000084.1 |
| 114.4 | 100.3 | 107 | 101.5 NM_001286.1 |
| 178.4 | 237.1 | 315.3 | 175.1 NM_021737.1 |
| 191.7 | 268.7 | 297.6 | 221 NM_021737.1 |
| 3452.7 | 3700.5 | 4110.3 | 1596.6 NM_001287.3 |
| 99.6 | 112.6 | 120.9 | 97.4 NM_004070.2 |
| 109.8 | 110.2 | 118.8 | 107.9 NM_001042704.1 |
| 105.1 | 94.5 | 92.9 | 92.5 NM_000085.1 |
| 90.6 | 95.4 | 93.3 | 91.6 NM_021101.3 |
| 109.3 | 104.2 | 105.2 | 78.1 NM_006984.3 |
| 90.3 | 90.6 | 89.2 | 82.7 NM_182848.2 |
| 112.6 | 90.9 | 96.3 | 94.1 NM_006984.3 |
| 122.1 | 145.9 | 140.1 | 126.1 NM_012129.2 |
| 233.5 | 220.4 | 239.6 | 177.6 NM_012130.2 |
| 90.9 | 80.6 | 76.2 | 89.1 NM_144492.1 |
| 86.7 | 83.8 | 85.7 | 81.4 NM_012130.2 |
| 88.6 | 104.1 | 113.4 | 101.2 NM_138429.1 |
| 449 | 440.7 | 502.7 | 283 NM_014343.1 |
| 115.9 | 111.5 | 112.9 | 114.6 NM_138429.1 |
| 91.3 | 96.1 | 86.6 | 86.8 NM_006580.2 |
| 81.3 | 89 | 83.9 | 85.4 NM_012131.1 |
| 98.8 | 89.2 | 83.6 | 88 NM_016369.3 |
| 106.4 | 115.3 | 111.6 | 103 NM_001002026.2 |
| 99.1 | 93.6 | 102.6 | 90.6 NM_016369.3 |
| 91.7 | 82.4 | 79.6 | 88.1 NM_016369.3 |
| 105.3 | 86 | 93.1 | 97.8 NM_148960.1 |
| 101.6 | 89.3 | 88.7 | 99.1 NM_020384.2 |
| 107.5 | 113.2 | 106.9 | 109.9 NM_001001346.1 |
| 727.6 | 543.4 | 445.9 | 407.9 NM_194284.1 |
| 89.3 | 93.3 | 89 | 86.7 NM_001306.2 |
| 97.1 | 94.2 | 91.4 | 89.2 NM_001305.3 |
| 81.7 | 76.2 | 78.4 | 81.3 NM_003277.2 |

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| 91.4 | 86 | 86.5 | 88.6 NM_021195.3 |
| 142 | 145 | 141.7 | 136.5 NM_001307.3 |
| 84.3 | 80.2 | 80.1 | 84.3 NM_199328.1 |
| 103 | 104.3 | 115.4 | 101.1 NM_020982.2 |
| 546.4 | 569.6 | 493.8 | 507.2 NM_001040181.1 |
| 669.2 | 697 | 504.4 | 593.7 NM_019895.1 |
| 253.6 | 187.2 | 204.1 | 172.5 NM_152353.1 |
| 98.9 | 108.9 | 104.4 | 96.3 NM_182906.2 |
| 98.6 | 96 | 93.1 | 96.1 NM_006344.2 |
| 96.4 | 99 | 118 | 112.1 NM_006344.2 |
| 6977.4 | 2726.3 | 2599.4 | 2274 NM_002975.2 |
| 183.5 | 459.6 | 326.8 | 313.7 NM_138337.4 |
| 163.4 | 351 | 311.6 | 216.3 NM_201625.1 |
| 101.3 | 138.7 | 134.9 | 96 NM_138337.4 |
| 93.2 | 93.3 | 91 | 95.8 NM_205852.1 |
| 85.7 | 78.2 | 82.9 | 83.4 NM_175060.1 |
| 87.9 | 89.1 | 87 | 85.3 NM_016511.2 |
| 88.8 | 80.5 | 87.9 | 91.2 NM_016509.2 |
| 89.3 | 85.8 | 83.9 | 78.4 NM_005127.2 |
| 92.9 | 91.5 | 79.6 | 88.1 NM_001004419.1 |
| 171.1 | 162.4 | 150.5 | 179.6 NM_013269.2 |
| 86.7 | 91.5 | 87.6 | 90.1 NM_005752.2 |
| 106.3 | 108 | 117.3 | 106.9 NM_003278.1 |
| 92.7 | 109.9 | 112.1 | 99.1 NM_194448.1 |
| 93.9 | 95 | 87.6 | 87.8 NM_203503.1 |
| 83.1 | 90.7 | 84.1 | 93.6 NM_130441.2 |
| 93.7 | 87.8 | 87.8 | 78.2 NM_080387.4 |
| 89.7 | 83.6 | 86 | 92.9 NM_014358.1 |
| 90.9 | 95.7 | 99.9 | 96.1 NM_173535.2 |
| 97 | 97.2 | 94.9 | 90.9 NM_198492.1 |
| 88.6 | 81.3 | 78.3 | 86.4 NM_214679.1 |
| 101.4 | 113 | 106.3 | 94.5 NM_013252.2 |
| 79.1 | 85.4 | 87.7 | 78.1 NM_001007033.1 |
| 104 | 108.3 | 97.7 | 101.6 NM_197950.2 |
| 93.8 | 89.2 | 88.5 | 86.8 NM_197954.1 |
| 101.3 | 99.7 | 99.3 | 97.1 NM_197953.1 |
| 114.1 | 100.7 | 92.8 | 100 NM_207345.1 |
| 128.5 | 120.2 | 118.3 | 137.5 NM_004362.1 |
| 11992.4 | 9445.4 | 7538.7 | 6364.9 NM_001288.4 |
| 100.6 | 95.2 | 99.5 | 98.5 NM_001289.4 |
| 91.6 | 83.8 | 80.3 | 93.7 NM_004669.2 |
| 890.5 | 646.6 | 570.5 | 670.8 NM_013943.1 |
| 94 | 91.8 | 93.2 | 101.7 NM_016929.1 |
| 241.2 | 237.4 | 228.1 | 186.6 NM_053277.1 |
| 352.2 | 489.3 | 363.4 | 434.8 NM_002956.2 |
| 113.4 | 130 | 107.3 | 108.5 NM_032421.2 |
| 135.4 | 155.2 | 139 | 132.9 NM_032421.2 |
| 104.3 | 125.1 | 156.1 | 114.7 NM_015526.1 |
| 192.6 | 135.7 | 155.5 | 208.2 NM_001024646.1 |
| 129.3 | 117.8 | 111.2 | 119.2 NM_004071.2 |

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| 253 | 275.3 | 269.7 | 171.9 | NM_001291.2 |
| 529.8 | 558.3 | 510.4 | 473.6 | XM_941392.1 |
| 83.2 | 82.5 | 89.9 | 88.7 | NR_002711.1 |
| 217.9 | 205.2 | 205.2 | 182 | NM_003992.1 |
| 704.5 | 873.9 | 930.1 | 437.1 | NM_003992.1 |
| 117.5 | 108 | 107.5 | 104.8 | NM_001292.1 |
| 200.3 | 198.6 | 167.8 | 232.3 | NM_020666.2 |
| 79 | 85.4 | 83.6 | 85.6 | NM_001025233.1 |
| 88.2 | 86.4 | 80.9 | 90.4 | NM_001025232.1 |
| 97.6 | 82.3 | 85.1 | 90.8 | NM_024734.2 |
| 237.4 | 341.8 | 300.8 | 264.5 | NM_000086.1 |
| 206.9 | 257.3 | 256.4 | 238.3 | NM_000086.1 |
| 347.4 | 343.2 | 309.6 | 249.1 | NM_006493.1 |
| 218.5 | 173.1 | 182.4 | 160.5 | NM_017882.1 |
| 120.4 | 126.7 | 102.6 | 114 | NM_018941.2 |
| 3520.6 | 2613.8 | 2251.7 | 2099.2 | NM_001293.1 |
| 102.9 | 111.9 | 90.2 | 97.3 | NM_004898.2 |
| 90.6 | 97.9 | 97.3 | 93.5 | NM_030813.3 |
| 602.3 | 334 | 350 | 241.7 | NM_006012.2 |
| 80.3 | 75.4 | 79 | 82.4 | NM_001832.2 |
| 784.3 | 554.5 | 432.6 | 433.3 | NM_001294.1 |
| 660.5 | 540 | 397.6 | 428.3 | NM_006660.3 |
| 85.7 | 85.3 | 95 | 82 | NM_152311.1 |
| 89.2 | 96.4 | 83.9 | 87 | NM_022111.2 |
| 1371.4 | 1361.9 | 1181 | 987.7 | NM_001009566.1 |
| 106.6 | 104.7 | 107.5 | 104.8 | XM_937951.1 |
| 304.7 | 125.6 | 124.6 | 128.1 | NM_022131.1 |
| 86.3 | 88.2 | 89.2 | 91.6 | NM_014718.2 |
| 2418.7 | 1634.8 | 1432.4 | 1109.9 | NM_001076677.1 |
| 96.8 | 89.3 | 81.1 | 100.3 | NM_007096.1 |
| 1605.3 | 1166.2 | 1088 | 787.6 | NM_007096.1 |
| 2047.4 | 1687.4 | 1370.2 | 968.4 | NM_001834.2 |
| 89.4 | 80.5 | 83.5 | 85.5 | NM_007097.2 |
| 170.5 | 157.4 | 148.4 | 187.2 | NM_004859.2 |
| 223.1 | 220.4 | 248.1 | 214.2 | NM_007098.1 |
| 112.1 | 115.5 | 98.5 | 114.1 | NM_007098.1 |
| 75.4 | 72.1 | 77.6 | 76.6 | NM_001831.2 |
| 88.5 | 87 | 75.9 | 82.8 | NM_203339.1 |
| 85.9 | 85.4 | 87.8 | 87.8 | NM_001831.2 |
| 174.4 | 140.1 | 128.7 | 125.8 | NM_015041.1 |
| 21274.3 | 27388 | 29163.3 | 24252.9 | NM_024793.1 |
| 304.2 | 249.6 | 221.4 | 170.5 | NM_015041.1 |
| 89.3 | 89.2 | 95.3 | 88.2 | NM_199167.1 |
| 105.2 | 103.3 | 97.2 | 96.1 | NM_014410.4 |
| 82.1 | 84.1 | 74.3 | 79.7 | NM_199167.1 |
| 476.5 | 348.6 | 381.1 | 316.4 | NM_206808.1 |
| 280.2 | 257.7 | 232.9 | 201.8 | NM_206808.1 |
| 96 | 84.9 | 99.6 | 89.3 | NM_001836.2 |
| 95.8 | 98.6 | 83.1 | 86.9 | NR_002174.1 |
| 1317.2 | 1099.6 | 963.7 | 781.9 | NM_018686.3 |

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| 1298.4 | 1010.2 | 895.8 | 653.1 NM_030629.1 |
| 86.1 | 94.6 | 86.9 | 96.3 NM_198390.1 |
| 84 | 85.8 | 84.2 | 81.3 NM_030629.1 |
| 89.4 | 90 | 90 | 89.7 NM_004072.1 |
| 106.2 | 116.6 | 113.1 | 103.2 NM_020311.1 |
| 98.3 | 100.4 | 93.1 | 89.9 NM_016347.1 |
| 800.8 | 844.3 | 615.6 | 812.8 NM_016308.1 |
| 106.1 | 97 | 100.1 | 105.3 NM_181270.1 |
| 84.9 | 89.8 | 91.6 | 87.8 NM_181289.1 |
| 104.3 | 99.9 | 102.4 | 89.8 NM_181301.1 |
| 86.3 | 78.1 | 75.6 | 77.7 NM_144673.2 |
| 82 | 82.6 | 84.6 | 89.4 NM_144601.2 |
| 1794.3 | 1346.2 | 1340.4 | 783.2 NM_181555.1 |
| 106.9 | 114.8 | 110.4 | 95.6 NM_181553.1 |
| 482.4 | 377.3 | 348 | 323.1 NM_001048251.1 |
| 393.3 | 315.6 | 395.6 | 184.2 NM_178818.2 |
| 101.7 | 87 | 92.2 | 85.2 NM_178818.2 |
| 87.8 | 79 | 79.4 | 75 NM_138460.2 |
| 4004.5 | 2678.2 | 2661.7 | 1456.5 NM_138410.2 |
| 267 | 199.9 | 207.5 | 187.8 NM_138410.2 |
| 317.7 | 273.9 | 267.1 | 172.5 NM_181472.1 |
| 178.2 | 276.7 | 283.9 | 279.9 NM_178868.3 |
| 79.5 | 78.4 | 79.1 | 77.2 NM_194293.2 |
| 91.3 | 76.5 | 81.6 | 85.4 NM_152381.3 |
| 79.5 | 88.6 | 84.8 | 93.7 NM_001079810.1 |
| 211.9 | 170.2 | 168.8 | 147.6 NM_153610.3 |
| 817.6 | 559.2 | 509.1 | 365.8 NM_014865.2 |
| 86 | 90.7 | 79 | 78.5 NM_173538.1 |
| 1660.3 | 1337 | 1047.4 | 1322.8 NM_003418.1 |
| 100 | 94.3 | 96.7 | 100.9 NM_032649.5 |
| 1751.5 | 1705.6 | 1557.7 | 1053 NM_018235.1 |
| 428 | 206.5 | 209.4 | 151.2 NM_032488.2 |
| 88.2 | 82.8 | 86.6 | 84.5 NM_000087.2 |
| 97.6 | 87.9 | 102.2 | 95.3 NM_005140.1 |
| 103.5 | 89.5 | 96.9 | 96.8 NM_001298.1 |
| 85.1 | 79.5 | 84.3 | 76.4 NM_001298.1 |
| 100.5 | 107.2 | 107.9 | 101.3 NM_001298.1 |
| 101 | 89.8 | 85.9 | 100.5 NM_001037329.1 |
| 102.7 | 104 | 117.9 | 104.9 NM_001297.1 |
| 86.1 | 88.2 | 77.7 | 90.9 NM_019098.2 |
| 1908.6 | 1017.2 | 1117.2 | 739.9 NM_001009551.1 |
| 1471.5 | 851 | 709.9 | 603 NM_005776.2 |
| 93.6 | 83.5 | 85.8 | 89 NM_182553.1 |
| 101.9 | 95.9 | 97.2 | 102 NM_182553.1 |
| 90.7 | 85.8 | 87.3 | 90.9 NM_152495.1 |
| 2758.4 | 1279.1 | 1935 | 1478.7 NM_014184.1 |
| 92.5 | 99.6 | 95.2 | 93.4 NM_006314.1 |
| 94.3 | 93.9 | 87.8 | 91.5 NM_014927.2 |
| 229.4 | 232.2 | 200.5 | 209.2 NM_173515.2 |
| 77.4 | 78.2 | 75.4 | 83.7 NM_001299.4 |

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| 118.2 | 104 | 140 | 126.1 NM_004368.2 |
| 1319.3 | 1149.8 | 1162 | 540 NM_201277.1 |
| 475.4 | 334.2 | 320.8 | 261.1 NM_001839.2 |
| 110.4 | 121.2 | 110.4 | 101.3 NM_020348.1 |
| 87.5 | 82.9 | 76.7 | 90.7 NM_017649.3 |
| 104.9 | 117.4 | 102 | 116.4 NM_199077.1 |
| 82.4 | 87.6 | 79.1 | 82.8 NM_199077.1 |
| 232.2 | 223.2 | 235.1 | 154 NM_017623.3 |
| 128.5 | 116.6 | 110.4 | 113.1 NM_020184.2 |
| 389.4 | 299.6 | 302.1 | 207.8 NM_018366.2 |
| 106.5 | 101.9 | 98.3 | 98.2 NM_206999.1 |
| 3195.5 | 3509.7 | 3144.4 | 1845.1 NM_016284.3 |
| 458.7 | 460.9 | 410.8 | 338.2 NM_015442.1 |
| 676.7 | 822.9 | 713.6 | 590.7 NM_014515.3 |
| 215.2 | 220.3 | 189.4 | 190.3 NM_014516.2 |
| 652.1 | 615.2 | 515.7 | 472.8 NM_013316.2 |
| 95.1 | 111.3 | 104.8 | 100 NM_013316.2 |
| 104.6 | 98 | 103.4 | 102.9 NM_001008225.1 |
| 687.9 | 771.7 | 582.1 | 578.7 NM_015455.3 |
| 158 | 149.3 | 139.9 | 123.6 NM_144571.2 |
| 836.3 | 435.8 | 451 | 424.3 NM_054026.1 |
| 1451.2 | 1139.4 | 724.1 | 1023.5 NM_013354.4 |
| 81.5 | 84.3 | 76 | 79.1 NM_054026.1 |
| 506.1 | 450.1 | 407.2 | 358.7 NM_004779.4 |
| 91 | 83.1 | 82 | 93.8 NM_033133.3 |
| 103.7 | 96.5 | 105.7 | 105.9 NM_016083.3 |
| 105.7 | 95.7 | 87.4 | 99.7 NM_001841.1 |
| 101 | 94.1 | 99.9 | 106.1 NM_173478.1 |
| 81.9 | 80.8 | 88.1 | 78 NM_000614.2 |
| 93 | 85.1 | 90.4 | 88.2 NM_147164.1 |
| 94.7 | 87.4 | 88.1 | 92.1 NM_147164.1 |
| 92.3 | 78.4 | 79.8 | 85.7 NM_001842.3 |
| 90 | 93.5 | 83 | 89.8 NM_001843.2 |
| 90.1 | 78 | 83.1 | 84.4 NM_001843.2 |
| 103.9 | 98.1 | 92.4 | 103.1 NM_005076.2 |
| 89.7 | 86.2 | 83.5 | 88.6 NM_020872.1 |
| 100.5 | 83.5 | 85.3 | 83.9 NM_175612.1 |
| 88.8 | 81.7 | 80.5 | 85.6 NM_175607.1 |
| 164.1 | 115.9 | 124.5 | 108.9 NM_175613.1 |
| 87.8 | 75.7 | 83.3 | 87.3 NM_014361.2 |
| 88.9 | 80 | 77.2 | 89.3 NM_014361.2 |
| 96.6 | 91.6 | 94.9 | 99 NM_014461.2 |
| 93.2 | 86 | 87 | 77.1 NM_003632.1 |
| 91.3 | 80.6 | 76 | 92.1 NM_014141.3 |
| 104 | 91.5 | 86.5 | 95.9 NM_033655.2 |
| 102.5 | 101.5 | 97.8 | 96.7 NM_138994.1 |
| 105.3 | 82.4 | 87.7 | 83.6 NM_033401.2 |
| 96.6 | 97.9 | 88.1 | 92 NM_130773.2 |
| 102 | 97.1 | 100.6 | 100 NM_138996.1 |
| 114.2 | 123.8 | 125.2 | 112.7 NM_053051.1 |

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| 799.6 | 925.6 | 987.9 | 582.4 NM_025233.4 |
| 241.2 | 224.6 | 192 | 183.2 NM_025233.4 |
| 103.5 | 97.5 | 84.3 | 95.8 NM_015198.2 |
| 97.3 | 96.6 | 89.3 | 85.9 NM_014900.3 |
| 171.5 | 155.6 | 135.6 | 133.9 NM_015456.2 |
| 1031.5 | 984.8 | 776.3 | 881.2 NM_015456.2 |
| 1685.1 | 1296.6 | 1147.3 | 1132.9 NM_015456.2 |
| 110.2 | 95 | 85.8 | 97.6 NM_004086.1 |
| 172.4 | 161.7 | 174.6 | 137.8 NM_018714.1 |
| 730.5 | 621.8 | 606.9 | 366.5 NM_007357.1 |
| 152.9 | 167.7 | 176.6 | 160 NM_031431.2 |
| 146.8 | 155.2 | 127.2 | 125.9 NM_015386.1 |
| 147.2 | 147.9 | 121.8 | 119.9 NM_006348.2 |
| 171.2 | 142.7 | 123.2 | 139.6 NM_006348.2 |
| 173.8 | 237 | 221.6 | 193.5 NM_020751.1 |
| 165.6 | 158.6 | 130.3 | 131 NM_153603.1 |
| 149.2 | 117.1 | 104.9 | 118.4 NM_032382.2 |
| 753.6 | 803.6 | 655.6 | 630.4 NM_004645.2 |
| 88 | 84.9 | 93.6 | 83.6 NM_000493.2 |
| 105.4 | 106 | 91.2 | 99.5 NM_001854.2 |
| 92 | 83.9 | 81.9 | 92.5 NM_080629.1 |
| 90.6 | 93.1 | 90.1 | 87.2 NM_080629.2 |
| 91.3 | 93.5 | 85.5 | 83.3 NM_080629.2 |
| 99 | 97.9 | 95.1 | 94.8 NM_080681.2 |
| 96.7 | 89.7 | 91.6 | 90.3 NM_080680.1 |
| 112.1 | 109.9 | 93.9 | 109.4 NM_080645.1 |
| 85.4 | 83.5 | 89.5 | 85.9 NM_004370.4 |
| 97.9 | 97.7 | 97.2 | 90.8 NM_080805.2 |
| 91.3 | 92.7 | 81.2 | 84.9 NM_080815.2 |
| 114 | 119.9 | 107 | 109.5 NM_001855.2 |
| 82.8 | 96.6 | 84.3 | 95.1 NM_001856.2 |
| 86.1 | 82.3 | 73.2 | 73.6 NM_130778.1 |
| 90.8 | 87.2 | 84.5 | 75.7 NM_000494.2 |
| 109.9 | 160 | 144.5 | 108.8 NM_030582.2 |
| 95.4 | 88.1 | 89.6 | 79.7 NM_130445.1 |
| 84.5 | 86.9 | 86.2 | 80.2 NM_001858.4 |
| 90.5 | 116.7 | 111 | 110.4 NM_000088.2 |
| 86.7 | 91.4 | 77.7 | 90.6 NM_000089.3 |
| 86.6 | 97.6 | 92 | 99 NM_020882.1 |
| 90.8 | 83.3 | 89.4 | 88.9 NM_030820.2 |
| 101.8 | 83.9 | 90.6 | 92.5 NM_152888.1 |
| 211.4 | 302.5 | 256.6 | 244.4 NM_173465.2 |
| 187.3 | 268.1 | 235.1 | 257 NM_152890.4 |
| 93.1 | 91.7 | 79.2 | 89.6 NM_198721.1 |
| 86.8 | 78.3 | 76.6 | 81.7 NM_032518.2 |
| 89.4 | 83.2 | 87.1 | 82.2 NM_198721.1 |
| 108.9 | 104.5 | 92.8 | 104.9 NM_032888.2 |
| 92.5 | 84.1 | 85.2 | 90 NM_001844.3 |
| 91.5 | 91.9 | 82.3 | 92.7 NM_001844.3 |
| 92 | 83.6 | 91 | 84.9 NM_000090.2 |

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| 189 | 394 | 334.9 | 281.1 NM_001845.3 |
| 92.7 | 127.6 | 107.3 | 100.4 NM_001846.1 |
| 78.8 | 73.3 | 73.6 | 81.6 NM_000091.3 |
| 94.5 | 84.4 | 93 | 87.6 NM_000091.2 |
| 126.2 | 122 | 98 | 107.7 NM_005713.1 |
| 354.1 | 503.2 | 446.4 | 347.9 NM_005713.1 |
| 87.9 | 87.2 | 87.1 | 89.5 NM_000092.3 |
| 139 | 108.2 | 104 | 105.6 NM_033381.1 |
| 88.5 | 80.4 | 77.5 | 90.7 NM_033380.1 |
| 91.8 | 79.4 | 84.6 | 88.7 NM_033641.1 |
| 90.5 | 81 | 74.4 | 85.2 NM_001847.1 |
| 89.9 | 90.6 | 82.8 | 79.8 NM_001847.1 |
| 96.9 | 89.7 | 76.6 | 80.1 NM_000093.2 |
| 103.5 | 90.4 | 95.9 | 91.2 NM_000393.2 |
| 80.6 | 86.2 | 85 | 66.3 NM_015719.2 |
| 141 | 213.4 | 204.7 | 195.9 NM_001848.1 |
| 93.8 | 96.7 | 102.1 | 105.8 NM_058174.1 |
| 115 | 112.2 | 105.2 | 104.6 NM_001849.2 |
| 104 | 104.6 | 101 | 93.9 NM_058175.1 |
| 83.8 | 80.9 | 80 | 81 NM_004369.2 |
| 105.1 | 102 | 93.1 | 97.3 NM_057164.2 |
| 191.5 | 209.3 | 201.5 | 167.8 NM_000094.2 |
| 93.7 | 101.3 | 104.2 | 106.1 NM_020351.2 |
| 90.4 | 86 | 77 | 81.8 NM_020351.2 |
| 86.7 | 90.7 | 80.3 | 87.3 NM_001850.3 |
| 169.9 | 160.7 | 116.2 | 118.4 NM_005202.1 |
| 100 | 94.4 | 95.4 | 98.6 NM_001851.3 |
| 80.4 | 92.6 | 85.3 | 79.8 NM_078485.2 |
| 83.7 | 83.5 | 80.2 | 89.1 NM_001851.3 |
| 92 | 84.1 | 72.2 | 74.1 NM_001851.3 |
| 2779.7 | 4116.9 | 3248.7 | 3505.3 NM_001852.3 |
| 90 | 102.3 | 91.4 | 96.1 NM_001853.2 |
| 93.5 | 77.2 | 91.2 | 78.8 NM_006438.2 |
| 81.2 | 83.1 | 82.3 | 87.1 NM_199235.1 |
| 90.8 | 86.2 | 80.2 | 91.3 NM_199235.1 |
| 83.9 | 95.4 | 94.6 | 91.2 NM_024027.3 |
| 90.4 | 91.7 | 96.2 | 93.7 NM_130386.1 |
| 87.3 | 86.5 | 86.3 | 89.9 NM_030781.2 |
| 92.2 | 94.8 | 91.2 | 97.2 NM_080540.2 |
| 93.8 | 83.4 | 82.8 | 93.6 NM_080542.1 |
| 102.8 | 93 | 103.1 | 91.9 NM_080539.2 |
| 98.9 | 102.1 | 106.4 | 95.5 NM_080538.1 |
| 1017.1 | 696.1 | 755 | 526.4 NM_152516.2 |
| 882.7 | 543.5 | 489 | 468 NM_016144.2 |
| 712.7 | 480 | 407.8 | 362.3 NM_016094.2 |
| 7705.3 | 4529.9 | 4271.3 | 2942.9 NM_012071.2 |
| 1605.2 | 1256.1 | 1132.6 | 941.9 NM_017828.3 |
| 989.2 | 512.6 | 511.7 | 355.5 NM_014066.3 |
| 173.1 | 131.4 | 120.3 | 101.1 NM_014066.3 |
| 4183.9 | 4905.5 | 4288.8 | 3774.2 NM_203495.1 |

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| 87.3 | 86.2 | 88.6 | 92.2 | NM_203497.1 |
| 3203.5 | 2217.2 | 1970.5 | 1239.6 | NM_053041.1 |
| 108.1 | 89.2 | 106.1 | 116.8 | NM_017845.2 |
| 430.2 | 368.8 | 329.2 | 325.2 | NM_014186.1 |
| 79.3 | 85.4 | 81.9 | 79.9 | NM_000095.2 |
| 328.5 | 259.5 | 225.3 | 168.8 | NM_000754.2 |
| 9946.3 | 7057.9 | 7068.4 | 4057.1 | NM_000754.2 |
| 170.6 | 146 | 114.1 | 136 | NM_144589.2 |
| 107.1 | 113.1 | 94.6 | 97.9 | NM_052889.2 |
| 97.5 | 94.9 | 89.5 | 104.5 | NM_052889.2 |
| 2983.9 | 2502.7 | 2418.6 | 1575.5 | NM_004371.2 |
| 1439.4 | 1225.3 | 957.7 | 1353.7 | NM_016451.3 |
| 1735.4 | 2073.3 | 1675.9 | 997.9 | NM_004766.1 |
| 1518.2 | 995.9 | 971.7 | 708.5 | NM_199444.1 |
| 1562.9 | 960.9 | 1065 | 648.2 | NM_199444.1 |
| 576.8 | 419.4 | 399 | 336.1 | NM_016128.3 |
| 131.5 | 261 | 188.3 | 209.4 | NM_012133.2 |
| 105.9 | 89.8 | 93.6 | 96.9 | NM_004236.1 |
| 1950.4 | 1703.5 | 1434.3 | 1119.1 | NM_003653.2 |
| 727 | 477.6 | 362.6 | 385.5 | NM_016129.2 |
| 5014 | 2954.6 | 2597.8 | 2208.3 | NM_006837.2 |
| 638.4 | 489.8 | 486 | 320.6 | NM_006833.4 |
| 874.1 | 1031.6 | 901.9 | 567.6 | NM_016319.1 |
| 873 | 640.7 | 581.2 | 361 | NM_022730.1 |
| 85.7 | 75.8 | 83 | 80.3 | NM_198189.2 |
| 225.3 | 181.2 | 144.4 | 172.5 | NM_006710.4 |
| 1203.4 | 869.2 | 614.4 | 533.9 | NM_016057.1 |
| 146.5 | 168.4 | 161.7 | 136.8 | NM_016429.1 |
| 196.9 | 207.2 | 183.5 | 151.7 | NM_144576.2 |
| 1109 | 1023 | 948.5 | 602.1 | NM_025147.2 |
| 2320.8 | 1331.4 | 1095.1 | 776.2 | NM_015697.5 |
| 416.2 | 335.4 | 365 | 261.6 | NM_017421.2 |
| 1628.1 | 1471.1 | 1305.7 | 898.5 | NM_032314.2 |
| 139.9 | 148.3 | 148.8 | 162.2 | NM_182476.1 |
| 456.1 | 447.1 | 386.2 | 346.7 | NM_182480.1 |
| 165.4 | 132.2 | 131.8 | 117.8 | NM_016138.3 |
| 775.8 | 550.5 | 514 | 463.9 | NM_020312.1 |
| 89.2 | 88.1 | 87.9 | 79.2 | NM_006587.2 |
| 1937.2 | 1031.7 | 987.9 | 857.2 | NM_007074.2 |
| 161.9 | 150.3 | 155.5 | 129.6 | NM_020441.2 |
| 1063.4 | 964.8 | 797.6 | 530.4 | NM_020441.2 |
| 295.6 | 395.7 | 320 | 297.2 | NM_014325.2 |
| 504.9 | 692.3 | 514.1 | 517 | NM_052820.2 |
| 128.2 | 149 | 129.3 | 124.7 | NM_052820.2 |
| 78.5 | 78.6 | 75.4 | 77.8 | NM_003389.2 |
| 99.8 | 97.3 | 88.6 | 92.4 | NM_006091.2 |
| 106.1 | 118.9 | 101.9 | 110.5 | NM_032854.1 |
| 349.3 | 303.9 | 279.7 | 272.2 | NM_024535.1 |
| 101 | 107.7 | 99 | 99.1 | NM_001302.3 |
| 106.6 | 115.4 | 114.4 | 117.1 | NM_021149.2 |

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| 296.2 | 344.8 | 307 | 195.4 | NM_006375.2 |
| 94.3 | 80.6 | 79.1 | 86.3 | NM_182314.1 |
| 133.4 | 147.2 | 131.8 | 132.1 | NM_006375.2 |
| 532.4 | 446.6 | 431.8 | 305 | NM_001303.2 |
| 126.6 | 105.4 | 98.2 | 103.2 | NM_004375.2 |
| 89 | 91.8 | 86.2 | 80.8 | NR_000031.1 |
| 90.7 | 88.3 | 77.3 | 84.3 | NM_078470.2 |
| 237.1 | 180.8 | 175.6 | 129.6 | NM_004376.3 |
| 6386.5 | 4645.8 | 4532.8 | 3273.3 | NM_005694.1 |
| 19651.4 | 15162.5 | 15258.6 | 10163.9 | NM_001861.2 |
| 92.4 | 93.3 | 88.6 | 94.8 | NM_032609.2 |
| 348.7 | 248.9 | 190.5 | 176.9 | NM_006067.3 |
| 12681.3 | 8707.2 | 7871.4 | 7169.5 | NM_004255.2 |
| 6377.4 | 5135.6 | 5162.7 | 3487.7 | NM_001862.2 |
| 1275.2 | 1107.7 | 1197.9 | 805.4 | NM_004373.2 |
| 90 | 91.7 | 80.9 | 92.7 | NM_005205.2 |
| 12465.2 | 7974.8 | 6705.2 | 6551.8 | NM_001863.3 |
| 97.7 | 100.7 | 93.6 | 90 | NM_144613.4 |
| 9843.1 | 7904.5 | 7129.7 | 6158.5 | NM_004374.2 |
| 92.7 | 87.3 | 78.1 | 87.6 | NM_001864.2 |
| 18969.8 | 17289.6 | 13566.3 | 13199.9 | NM_001865.2 |
| 2374.9 | 1968 | 1461.2 | 2060.3 | NM_001866.2 |
| 87.8 | 84 | 82 | 81.2 | NM_130902.1 |
| 22357.5 | 16232 | 13905.8 | 12299.5 | NM_001867.2 |
| 10591.8 | 5641.6 | 5525.7 | 3808.8 | NM_004074.2 |
| 104.4 | 95.5 | 88 | 84.3 | NM_182971.1 |
| 88.2 | 94 | 85 | 90.9 | NM_000096.1 |
| 686.2 | 543.6 | 461.9 | 438.2 | NM_014711.3 |
| 89.2 | 77.2 | 87.2 | 86.6 | NM_001868.1 |
| 83.3 | 78.5 | 84.2 | 95.8 | NM_001869.1 |
| 95.5 | 83.4 | 89.1 | 86.8 | NM_001870.1 |
| 91.5 | 80.3 | 90.4 | 87.6 | NM_016352.2 |
| 89.4 | 92.4 | 89.1 | 77.5 | NM_080385.2 |
| 76.1 | 75.6 | 67.5 | 78.5 | NM_020361.2 |
| 86.8 | 88.9 | 88.5 | 80.3 | NM_015692.1 |
| 88.4 | 79.8 | 81.9 | 87.6 | NM_001871.2 |
| 83.4 | 91.3 | 83.4 | 81.6 | NM_001872.2 |
| 82.2 | 82.4 | 76.3 | 84.2 | NM_016413.3 |
| 94.6 | 96.8 | 92.4 | 96.5 | NM_001872.2 |
| 566.4 | 1272.7 | 1006.9 | 935 | NM_001304.3 |
| 156.5 | 106.2 | 96.5 | 104.9 | NM_001873.1 |
| 83.7 | 84.8 | 84.4 | 84.5 | NM_030594.2 |
| 89 | 96.8 | 90 | 89.6 | NM_001079534.1 |
| 95.3 | 103 | 88.9 | 95.5 | NM_030594.2 |
| 91 | 71.3 | 82 | 82 | XM_944543.1 |
| 475.4 | 446.2 | 376.7 | 437 | NM_182646.1 |
| 97.1 | 90.3 | 84.5 | 92.6 | NM_014912.3 |
| 94.4 | 106.2 | 97.4 | 98.2 | NM_030627.1 |
| 84.7 | 83.6 | 86.3 | 81.3 | NM_006651.3 |
| 88.7 | 94.5 | 96 | 88.3 | NM_001008220.1 |

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| 86.6 | 88.7 | 92.6 | 89.4 NM_006650.3 |
| 95.7 | 87.2 | 95 | 95.8 NM_001030005.2 |
| 92.6 | 103.4 | 95.4 | 95 NM_001005502.1 |
| 170.6 | 154.7 | 137.6 | 119.9 NM_001874.3 |
| 91.9 | 83.8 | 82.2 | 85 NM_001308.1 |
| 96.9 | 87.9 | 84.2 | 95.9 XM_942072.1 |
| 101.4 | 99.4 | 88.6 | 89.7 NM_001080513.1 |
| 104.2 | 101.4 | 95.8 | 90.1 NM_003915.2 |
| 872.8 | 639.7 | 627.8 | 481.2 NM_152931.1 |
| 864.9 | 659.6 | 668.1 | 468.2 NM_152931.1 |
| 140.9 | 117.9 | 96.4 | 113.2 NM_152727.4 |
| 1276.2 | 947.5 | 831 | 812.8 NM_003909.2 |
| 92.4 | 87.5 | 88.7 | 97.3 NM_130808.1 |
| 91 | 90.3 | 95.3 | 84.7 NM_020939.1 |
| 91.4 | 87.6 | 89 | 100.3 NM_006032.2 |
| 82.4 | 84.6 | 72.3 | 73.9 NM_153636.1 |
| 436.5 | 370.9 | 418.8 | 376.8 NM_153634.2 |
| 88.8 | 95.6 | 77 | 80.8 NM_001033755.1 |
| 79.8 | 91.8 | 82 | 79.1 NM_173077.1 |
| 169.9 | 98.7 | 82.9 | 92.4 NM_001875.2 |
| 921.5 | 769.9 | 786.1 | 304.9 NM_013291.2 |
| 403.5 | 330.3 | 307.6 | 196.7 NM_017437.1 |
| 1463.9 | 1267.1 | 1314.8 | 913.3 NM_016207.2 |
| 175.7 | 188.7 | 188.4 | 156.2 NM_032179.1 |
| 125.8 | 142.9 | 117.4 | 127.5 NM_017871.3 |
| 2671.9 | 1955.8 | 2178 | 1347.1 NM_006693.1 |
| 121.1 | 108.8 | 116.7 | 104.6 NM_001081559.1 |
| 141.5 | 125.2 | 105.2 | 121 NM_007007.1 |
| 102.9 | 92.2 | 99 | 84.2 NM_001876.2 |
| 92.1 | 86.1 | 90.5 | 91.8 NM_001031847.1 |
| 221.8 | 208.7 | 186.2 | 174.7 NM_001876.2 |
| 182.5 | 207.8 | 209.6 | 195.6 NM_152246.1 |
| 109.5 | 124.3 | 138 | 119.5 NM_152247.1 |
| 97.3 | 93 | 84.9 | 94.7 NM_152359.1 |
| 967.1 | 1041.9 | 882.6 | 543.6 NM_000098.1 |
| 1738.6 | 1896.5 | 1553.7 | 1425.7 NM_031311.3 |
| 502.9 | 648.7 | 535 | 515.6 NM_031311.2 |
| 97.7 | 87.8 | 85.7 | 83.6 NM_033048.3 |
| 94.3 | 81 | 89.6 | 95.2 NM_019609.3 |
| 99.5 | 98.4 | 102.7 | 102.1 NM_198148.1 |
| 89.5 | 90.1 | 80.3 | 92.4 NM_001014447.1 |
| 98.5 | 85.4 | 83 | 88.7 NM_001014448.1 |
| 97.1 | 88 | 84.3 | 88.3 NM_001014447.1 |
| 100.8 | 90.8 | 88.6 | 91.9 NM_000573.3 |
| 78.1 | 79.9 | 77.6 | 77.3 XM_936516.1 |
| 78.7 | 71.6 | 72.4 | 79.4 NM_000651.3 |
| 78.4 | 86 | 76.1 | 84.1 NM_001006658.1 |
| 91.9 | 91.5 | 93.9 | 96.4 NM_001877.3 |
| 704.3 | 395.1 | 381.6 | 357.7 NM_004378.1 |
| 114 | 99.1 | 94.3 | 99.2 NM_001878.2 |

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| 278.6 | 275.8 | 280.5 | 163.4 NM_003805.3 |
| 260.3 | 245.5 | 259.4 | 257.6 NM_020825.2 |
| 129.7 | 124.4 | 136.2 | 115.9 NM_000755.2 |
| 99.3 | 93.4 | 105.9 | 91.4 NM_004003.2 |
| 102.1 | 93.4 | 92.7 | 96.5 NM_201253.1 |
| 88.4 | 96.4 | 85.9 | 86 NM_173689.4 |
| 84.9 | 87.3 | 78.2 | 82.1 NM_139161.2 |
| 96.7 | 91 | 97 | 101.8 NM_174881.2 |
| 95.1 | 102.3 | 96.1 | 92.4 NM_139161.2 |
| 324.5 | 299.8 | 251.5 | 276.5 NM_016302.2 |
| 1527.3 | 1798.2 | 2204.9 | 2171.4 NM_004379.2 |
| 102.1 | 86.3 | 91 | 93 NM_006368.4 |
| 92.4 | 90.6 | 80.7 | 94.4 NM_052854.1 |
| 730.1 | 995.1 | 841.6 | 679.9 NM_194071.2 |
| 86.1 | 83.7 | 87.1 | 86.9 NM_032607.1 |
| 91.7 | 97.1 | 91.6 | 88.8 NM_130898.2 |
| 77.1 | 80.1 | 65.9 | 75.3 NM_182898.2 |
| 82.6 | 85.1 | 81.1 | 83.8 NM_182899.3 |
| 82.3 | 92.3 | 90.5 | 91.5 NM_001011666.1 |
| 91.2 | 81.7 | 87.3 | 80.4 NM_182898.2 |
| 102.9 | 90.1 | 86.5 | 96.8 NM_004904.2 |
| 110.4 | 126.5 | 107.3 | 122.3 NM_004380.2 |
| 794.9 | 746.4 | 655.7 | 649.3 NM_004380.1 |
| 108.7 | 111.4 | 94.8 | 92.4 NM_004381.3 |
| 83.5 | 87.3 | 76.5 | 80.7 NM_001310.2 |
| 1658.4 | 2021.4 | 1467.9 | 1426.6 NM_003851.2 |
| 88.1 | 94.1 | 88.8 | 92.9 NM_153836.1 |
| 94.9 | 97.1 | 98 | 95.7 NM_015513.2 |
| 85.5 | 95.4 | 96.9 | 86.9 NM_001031717.1 |
| 396.2 | 503.8 | 476.8 | 321.1 NM_001031717.1 |
| 85.7 | 88.1 | 84.5 | 94.6 NM_001077415.1 |
| 2142.9 | 2476.7 | 2271.2 | 1406.3 NM_024324.2 |
| 94.6 | 86.9 | 77.6 | 85.7 NM_001881.2 |
| 103.1 | 100.5 | 102.4 | 93.2 NM_000756.1 |
| 93.7 | 85.5 | 90.4 | 87.6 NM_001882.3 |
| 140.1 | 137.1 | 149.4 | 114.1 NM_004382.2 |
| 88.7 | 85.2 | 79 | 83.2 NM_004382.2 |
| 84.8 | 84.3 | 77.9 | 82.9 NM_001883.2 |
| 151.8 | 183.4 | 154.8 | 161.4 NM_014335.2 |
| 171.5 | 179.1 | 146.2 | 177.7 NM_153232.3 |
| 103.3 | 104.3 | 101.7 | 97.4 NM_016441.1 |
| 2040.2 | 899.2 | 826.2 | 628.5 NM_001311.3 |
| 93.2 | 88.4 | 76.8 | 79.1 NM_001312.2 |
| 94.8 | 98.6 | 89.9 | 81 NM_206922.1 |
| 147.4 | 191.9 | 210.7 | 210.3 NM_175918.2 |
| 580.1 | 369.8 | 378.5 | 265.2 NM_014171.3 |
| 96.8 | 94.7 | 81.1 | 83.8 NM_001131.2 |
| 85.1 | 87 | 74.9 | 85.9 NM_001131.2 |
| 103.9 | 95.7 | 89 | 104.9 NM_003296.1 |
| 100.2 | 94.5 | 94.5 | 104.9 NM_006061.1 |

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| 100.8 | 88.8 | 98.4 | 104.4 NM_031461.3 |
| 92.2 | 118.4 | 103.9 | 102.3 NM_031476.1 |
| 420.1 | 389.9 | 348.9 | 263.1 NM_016823.2 |
| 169.1 | 157.2 | 150.9 | 130.2 NM_016823.2 |
| 2767 | 2363.1 | 2207.3 | 1447.8 NM_005207.2 |
| 230 | 309.4 | 244.8 | 249.5 NM_016507.1 |
| 113 | 99.1 | 101.9 | 98.5 NM_004750.2 |
| 83.1 | 87 | 88.7 | 90.8 NM_001012288.1 |
| 285.1 | 347.8 | 296.5 | 317.5 NM_015986.2 |
| 107.6 | 93.4 | 98.6 | 94 NM_001014809.1 |
| 93.8 | 93.4 | 90.3 | 97.8 NM_001313.3 |
| 93.5 | 93.1 | 91 | 83.5 NM_001014809.1 |
| 110.9 | 115 | 93.5 | 107.5 NM_016652.3 |
| 150.7 | 173.1 | 176 | 135.5 NM_016190.1 |
| 127.9 | 110.4 | 107.8 | 99.1 NM_014675.2 |
| 208 | 191.9 | 198.6 | 241.3 NM_016424.3 |
| 844.5 | 648.9 | 584.5 | 618 NM_006107.2 |
| 127.2 | 153.3 | 128.8 | 129.1 NM_021151.2 |
| 87.2 | 78.1 | 82.9 | 89.7 NM_000567.2 |
| 2078.1 | 1841.7 | 1585.4 | 1361.9 NM_030782.2 |
| 97.9 | 95.5 | 92.8 | 85.4 NM_004229.2 |
| 308.1 | 285.5 | 261.1 | 279.5 NM_004830.2 |
| 122.9 | 108 | 96.1 | 101.6 NM_015979.2 |
| 112.5 | 122.2 | 96.1 | 100.7 NM_004268.3 |
| 163.8 | 147.1 | 127.8 | 125.7 NM_004831.3 |
| 99.8 | 90.9 | 90.8 | 94.6 NM_004270.3 |
| 77.2 | 81.8 | 88.7 | 80 NM_018058.4 |
| 94.3 | 80.8 | 82 | 85.1 NM_019604.2 |
| 1101.2 | 1038.1 | 982.8 | 803.9 NM_006371.3 |
| 178.2 | 282.6 | 264 | 181.7 NM_006371.3 |
| 110.7 | 110.8 | 106.3 | 105.7 NM_015321.1 |
| 118.1 | 101.4 | 90.6 | 106 NM_181715.1 |
| 93.5 | 100.1 | 87.9 | 94.8 NM_000554.2 |
| 158.9 | 165.6 | 151.9 | 151 NM_004075.2 |
| 146.7 | 133.9 | 136.2 | 111.3 NM_021117.1 |
| 85 | 82.6 | 82.3 | 84.4 NM_000394.2 |
| 90.5 | 91.1 | 88.6 | 84.4 NM_001885.1 |
| 89 | 93.8 | 94.9 | 83.6 NM_005208.3 |
| 90.5 | 86.3 | 87.2 | 91.8 NM_057093.1 |
| 94.1 | 103.1 | 93.8 | 94.9 NM_057093.1 |
| 97.8 | 85.8 | 86.7 | 80.7 NM_001886.1 |
| 101.7 | 101 | 90.9 | 86.1 NM_001887.3 |
| 385.8 | 283.9 | 258.8 | 255.8 NM_000496.1 |
| 88.1 | 88.3 | 73.4 | 82.1 NM_004076.3 |
| 129 | 119.2 | 114.4 | 96.9 NM_014617.2 |
| 79.1 | 87 | 81.4 | 78.5 NM_005210.2 |
| 94.8 | 80.6 | 84.5 | 85 NM_020989.2 |
| 85.9 | 90.6 | 83.1 | 80.5 NM_006891.2 |
| 79.2 | 77.8 | 73.8 | 75 NM_144727.1 |
| 144.5 | 163.1 | 159.8 | 128 NM_017541.2 |

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| 175.7 | 244.6 | 248.7 | 221.6 | NM_015974.1 |
| 85 | 98.5 | 92.1 | 85 | NM_001888.2 |
| 102.4 | 112.1 | 99.3 | 103.6 | NM_001014444.1 |
| 82.2 | 80.9 | 80.9 | 78.2 | NM_001888.2 |
| 314.3 | 214.7 | 225.3 | 215.3 | NM_001889.2 |
| 699.4 | 568.8 | 525 | 464.9 | NM_005111.5 |
| 98.2 | 98.9 | 90.3 | 106.6 | NM_198324.1 |
| 3856.4 | 3407.2 | 2585.3 | 1895.7 | NM_004077.2 |
| 438.7 | 537.3 | 367.3 | 332.8 | NM_004077.2 |
| 181.6 | 239.7 | 237.7 | 281.4 | NM_015989.3 |
| 101.5 | 94.4 | 93.9 | 90.7 | NM_153479.1 |
| 83.1 | 92.4 | 80.4 | 94.5 | NM_153478.1 |
| 89.6 | 81.3 | 95.6 | 78.8 | NM_004909.1 |
| 96.3 | 95.4 | 95.2 | 91.6 | NM_001080848.1 |
| 85.6 | 77.7 | 75.8 | 83.1 | NM_001080848.1 |
| 102.6 | 95.9 | 89.8 | 100.3 | NM_203311.1 |
| 2769.4 | 1738 | 1877.7 | 1192.7 | NM_003651.3 |
| 95.8 | 101.3 | 94.7 | 101.4 | NM_014460.2 |
| 216.4 | 200.8 | 198 | 148.5 | NM_007158.4 |
| 162.3 | 163.3 | 166.3 | 169 | NM_001007553.1 |
| 2604.2 | 1598.9 | 1129 | 1211 | NM_001316.2 |
| 3462.7 | 2544 | 1716 | 1785.9 | NM_177436.1 |
| 110.1 | 87 | 86.8 | 94.3 | NM_013434.3 |
| 89.7 | 90.2 | 82.7 | 89.8 | NM_172210.1 |
| 93.3 | 77.8 | 79.4 | 84 | NM_172212.1 |
| 86 | 86.3 | 81.7 | 90.2 | NM_000757.3 |
| 1106.5 | 2366.2 | 1932.9 | 1142.3 | NM_005211.2 |
| 90 | 94.3 | 89.1 | 89.7 | NM_000758.2 |
| 354.5 | 354.3 | 394.1 | 341.4 | XM_942501.1 |
| 1307.1 | 1359.2 | 2098.4 | 1175.4 | NM_172249.1 |
| 567.5 | 587.2 | 589 | 474.3 | NM_172249.1 |
| 88.6 | 101.8 | 98.4 | 90.4 | NM_000395.1 |
| 95.9 | 91.6 | 86.3 | 101.8 | NM_000759.2 |
| 81.1 | 74.1 | 76.1 | 84.5 | NM_000759.2 |
| 91.5 | 101 | 93.3 | 89.2 | NM_172220.1 |
| 119.1 | 161.8 | 141.2 | 158.2 | NM_000760.2 |
| 1006.5 | 1960.4 | 1975.3 | 1050 | NM_172313.1 |
| 282 | 230.9 | 202.3 | 182.9 | NM_019015.1 |
| 86.6 | 91.6 | 82.2 | 87 | NM_022640.2 |
| 92.9 | 88.7 | 80.3 | 86.3 | NM_001317.3 |
| 85 | 89.2 | 89 | 85.2 | NM_022644.2 |
| 92.1 | 86.4 | 81.2 | 92.1 | NM_022644.2 |
| 86.2 | 94.4 | 87.5 | 96 | NM_022579.1 |
| 94.9 | 95.4 | 86.7 | 90.3 | NM_022581.1 |
| 1583.6 | 1203.7 | 1127.1 | 683 | NM_004383.1 |
| 85.4 | 80.6 | 79.3 | 79.3 | NM_033225.3 |
| 83.5 | 93.8 | 71.4 | 93.3 | NM_052896.2 |
| 87.3 | 83.5 | 83.1 | 87.6 | NM_198124.1 |
| 79.6 | 89.9 | 78.8 | 80.5 | NM_198123.1 |
| 88.5 | 81.7 | 78.9 | 86.6 | NM_052900.2 |

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| 87.6 | 104.9 | 91.1 | 90.5 NM_001025104.1 |
| 85.8 | 74.1 | 76.4 | 85 NM_001890.1 |
| 91.7 | 87.6 | 88.1 | 94.7 NM_001891.1 |
| 94.3 | 85.2 | 80.6 | 88.8 NM_005212.1 |
| 230.4 | 168 | 155.5 | 150.8 NM_001892.4 |
| 110.2 | 113.8 | 117.9 | 107.3 NM_001025105.1 |
| 580.3 | 601.6 | 431 | 426.6 NM_001892.4 |
| 90.2 | 91.9 | 86.8 | 87 NM_145203.2 |
| 1227.6 | 1228.1 | 1356 | 679.5 NM_139062.1 |
| 545.8 | 633.4 | 530.6 | 554.6 NM_139062.1 |
| 1108.1 | 1028.7 | 1113.9 | 623.8 NM_152221.2 |
| 102.3 | 92.8 | 107.5 | 93.5 NM_001894.4 |
| 317.2 | 248.4 | 197.9 | 212.3 NM_152221.2 |
| 230.5 | 289.6 | 256.4 | 201.9 NM_022048.2 |
| 96.4 | 113.9 | 95 | 105.2 NM_001011664.2 |
| 477.1 | 452.5 | 349 | 314.4 NM_001319.5 |
| 96.3 | 89.5 | 88.4 | 79.2 NM_004384.2 |
| 346.4 | 392.5 | 283.7 | 316.1 NM_001031812.1 |
| 171.4 | 178.1 | 126.7 | 165.5 NM_001044722.1 |
| 323.7 | 273.8 | 239.3 | 219.6 NM_001895.3 |
| 365 | 314.7 | 273.7 | 222.5 NM_001895.3 |
| 97 | 104.9 | 99.8 | 93.7 NM_177559.2 |
| 189.8 | 146.7 | 154.1 | 128.5 NR_002207.1 |
| 526.6 | 356.3 | 317.8 | 240.8 NM_001896.2 |
| 7203.4 | 4380.8 | 3382.6 | 2647.9 NM_001320.5 |
| 128.2 | 365.1 | 215.4 | 193 NM_004385.2 |
| 113.5 | 110.9 | 108.9 | 99.9 NM_004386.1 |
| 98.1 | 95.3 | 77.9 | 80.4 NM_001897.3 |
| 93 | 86.6 | 87.3 | 84.5 NR_002194.1 |
| 125.9 | 190.5 | 167.3 | 186.2 NM_006574.2 |
| 424.6 | 360 | 381.7 | 334.7 NM_024790.3 |
| 131 | 126.2 | 126.3 | 126.6 NM_024790.3 |
| 1029.9 | 621.7 | 598.7 | 499.9 NM_004078.1 |
| 91.2 | 86.6 | 82.2 | 83.3 NM_001321.1 |
| 107.3 | 120.4 | 103 | 101.6 NM_020536.2 |
| 462.3 | 303.7 | 281.9 | 233.3 NM_020536.2 |
| 105 | 92.8 | 86.9 | 88 NM_177926.1 |
| 80.2 | 77.4 | 74.9 | 87.4 NM_003476.2 |
| 149.6 | 190.9 | 159.8 | 141.2 NM_175856.4 |
| 98.5 | 85.7 | 84 | 83.9 NM_001898.2 |
| 93.5 | 82.6 | 81.1 | 89 NM_130794.1 |
| 82 | 76.4 | 76.5 | 82.2 NM_130794.1 |
| 84.5 | 81.5 | 73.1 | 80.4 NM_001322.2 |
| 11500.8 | 11566.3 | 10214.8 | 9928.7 NM_000099.2 |
| 96 | 84.2 | 89.1 | 92 NM_001899.2 |
| 87.7 | 85.6 | 76.5 | 84.9 NM_001900.4 |
| 93.5 | 81.9 | 85.2 | 86.1 NM_001323.2 |
| 97 | 86.6 | 73.1 | 76.8 NM_001323.2 |
| 374.4 | 195.9 | 186.2 | 173.3 NM_003650.2 |
| 83 | 85.2 | 84.4 | 85.3 NM_005492.2 |

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| 131.5 | 113.2 | 110.6 | 110 NM_001008693.1 |
| 94.4 | 81.2 | 74 | 87.9 NM_080610.1 |
| 170.5 | 173.2 | 143.1 | 130.6 NM_005213.3 |
| 3512.4 | 3695 | 3200.4 | 2942.7 NM_000100.2 |
| 127.5 | 110.6 | 103.7 | 92.8 NM_001033521.1 |
| 91.7 | 91.2 | 96.6 | 90.4 NM_001033522.1 |
| 94.3 | 97.7 | 82 | 98.8 NM_001033522.1 |
| 92.2 | 99.7 | 85.6 | 83.6 NM_001324.2 |
| 857.5 | 562.8 | 513.1 | 448.9 NM_001325.2 |
| 131 | 104.2 | 102.7 | 102.6 NM_015235.2 |
| 541 | 388.8 | 331.9 | 333.3 NM_001033505.1 |
| 134 | 161 | 161.3 | 136.2 NM_001033506.1 |
| 2654.9 | 1657.5 | 1673.5 | 1187 NM_001326.2 |
| 252.4 | 184 | 177.9 | 178 NM_001033505.1 |
| 84 | 76 | 87.5 | 91.9 NM_138283.1 |
| 82.9 | 85.6 | 76.5 | 88.7 NM_001017417.1 |
| 94.4 | 87.5 | 80.3 | 92.4 NM_001017436.1 |
| 84.2 | 77.2 | 80.7 | 80.8 NM_001007551.2 |
| 77.7 | 77.3 | 85.5 | 84.9 NM_001007551.2 |
| 94.6 | 98.9 | 96.3 | 95.9 NM_001007551.2 |
| 114.8 | 110.4 | 100.6 | 112.8 NM_001080146.1 |
| 85.1 | 77.4 | 75.7 | 79.9 NM_001080141.1 |
| 112 | 100.2 | 93.3 | 96.4 NM_001080140.1 |
| 87.1 | 81.7 | 83.3 | 88.3 NM_139250.1 |
| 89.8 | 94.1 | 86.4 | 94.1 NM_001327.1 |
| 91.7 | 95 | 86.5 | 102.3 NM_020994.2 |
| 78.7 | 83.7 | 81.4 | 91.7 NM_020994.2 |
| 84.1 | 85.8 | 88.1 | 84 NM_022663.1 |
| 89.5 | 81.8 | 85.8 | 74.2 NM_203355.1 |
| 81.8 | 85.6 | 80.6 | 85.3 NM_203354.1 |
| 93.9 | 83.1 | 84.8 | 84.1 NM_203356.1 |
| 96.7 | 99 | 117.3 | 116 NM_203356.1 |
| 234.8 | 268.7 | 223.6 | 249.6 NM_001012614.1 |
| 161.3 | 150.8 | 124.2 | 136.5 NM_001328.2 |
| 546.7 | 417 | 369.3 | 258.4 NM_001012614.1 |
| 118.7 | 109.8 | 104.2 | 106.1 NM_001329.1 |
| 98.2 | 94.8 | 94.6 | 95.1 NM_022802.1 |
| 327.2 | 413.2 | 400.8 | 323.6 NM_004388.1 |
| 534.6 | 528 | 394.2 | 394 NM_006565.2 |
| 99.6 | 89 | 88.6 | 89.5 NM_080618.2 |
| 120.6 | 136.9 | 125.9 | 125.1 NM_004715.3 |
| 108.8 | 92.6 | 91.1 | 91.6 NM_004715.3 |
| 133.4 | 143.7 | 145.6 | 129.8 NM_004715.3 |
| 416.4 | 338.5 | 310.2 | 254.4 NM_021198.1 |
| 138.3 | 147.1 | 139 | 168.9 NM_182642.1 |
| 1000.6 | 1089.8 | 1158.8 | 485.6 NM_005730.2 |
| 521.1 | 377.4 | 354.7 | 253.6 NM_005808.2 |
| 212.5 | 229 | 165.9 | 160.2 NM_016396.2 |
| 108.9 | 91.4 | 92.3 | 102.8 NM_001330.2 |
| 115.6 | 100.6 | 101 | 94.2 NM_001040144.1 |

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| 104.9 | 99.4 | 92.7 | 96.4 NM_001901.2 |
| 97.7 | 97 | 92.9 | 100 NM_133446.1 |
| 774.9 | 743.8 | 896.8 | 578.4 NM_001077665.1 |
| 99.7 | 97.1 | 85.4 | 91.8 NM_001077685.1 |
| 145.7 | 143.4 | 112.3 | 133.4 NM_153742.3 |
| 105.7 | 106.4 | 98.1 | 98.7 NM_001902.4 |
| 82 | 83 | 81.8 | 87.2 NM_138455.2 |
| 85.5 | 88.4 | 77.9 | 88.2 NM_005214.3 |
| 92.2 | 90.2 | 80.5 | 89.5 NM_005214.3 |
| 94.7 | 81.6 | 82.3 | 79.3 NM_005214.2 |
| 1299.8 | 1516.6 | 1313.3 | 923.3 NM_001903.2 |
| 98.4 | 97.1 | 94.4 | 82.7 NM_004389.2 |
| 86.5 | 75.5 | 77.2 | 88.4 NM_013266.1 |
| 375.7 | 343.1 | 233.7 | 318.4 NM_003798.1 |
| 503.8 | 545.7 | 438.1 | 464.1 NM_001904.2 |
| 90.7 | 84.1 | 81.2 | 87.2 NM_001904.2 |
| 147.6 | 179.2 | 160.6 | 117.1 NM_001012329.1 |
| 102.1 | 88.4 | 95.9 | 95.5 NM_020248.2 |
| 481.4 | 544.5 | 462.9 | 341.3 NM_030877.3 |
| 91.3 | 96.1 | 92.2 | 94.2 XM_943098.1 |
| 93.7 | 95.3 | 99.9 | 88.4 NM_001331.1 |
| 87.8 | 91.8 | 90 | 83.7 NM_001332.2 |
| 70.5 | 82.1 | 72.8 | 86.7 NM_001031681.1 |
| 176.8 | 199.7 | 186.1 | 125 NM_004937.1 |
| 104.8 | 90.5 | 101.2 | 90.3 NM_004937.1 |
| 2643.8 | 2519.2 | 1761.1 | 1622.5 NM_001905.1 |
| 91.9 | 91.3 | 86 | 80.1 NM_019857.3 |
| 603.6 | 763.1 | 771.8 | 514.9 NM_175859.1 |
| 133.4 | 97.2 | 106.3 | 106.6 NM_175859.1 |
| 149 | 183.6 | 156.6 | 140.4 NM_175859.1 |
| 83 | 92.8 | 84.6 | 100.6 NM_014633.2 |
| 84 | 86.5 | 73.7 | 75.3 NM_001906.4 |
| 89 | 90 | 80 | 83.4 NM_001906.4 |
| 102.8 | 93 | 90.1 | 98 NM_001025200.2 |
| 121.2 | 105.7 | 112 | 109 NM_007272.2 |
| 132.7 | 109.1 | 127 | 98 NM_001907.1 |
| 992.1 | 1767.2 | 2016.3 | 961.5 NM_001908.3 |
| 94.1 | 83.2 | 84.4 | 106 NM_148170.2 |
| 526.7 | 487.4 | 427.8 | 378.5 NM_001814.2 |
| 1166 | 1004.6 | 884.8 | 916 NM_001814.2 |
| 380.9 | 624.5 | 525.2 | 458.6 NM_001909.3 |
| 105.5 | 109 | 108.3 | 102.5 NM_148964.1 |
| 89.7 | 85.3 | 94.9 | 84.5 NM_001910.2 |
| 92.7 | 86.6 | 83.7 | 95.2 NM_001910.2 |
| 128.4 | 129 | 116.6 | 110.6 NM_003793.2 |
| 33957.8 | 32283.1 | 32317.4 | 23987.2 NM_001911.2 |
| 2006.2 | 2201.7 | 2332.9 | 1685.8 NM_004390.2 |
| 132 | 151.2 | 141.2 | 127.9 NM_004390.2 |
| 119.1 | 121.5 | 121.8 | 109.4 NM_000396.2 |
| 182.3 | 231.4 | 188.3 | 140.3 NM_001912.2 |

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| 1699.5 | 2501.8 | 1964.3 | 907.5 NM_145918.2 |
| 1396.1 | 2110.1 | 1497.3 | 799.1 NM_145918.2 |
| 167 | 179.9 | 163.8 | 152.3 NM_001333.2 |
| 251 | 232.8 | 238.9 | 233.5 NM_001334.2 |
| 177.7 | 179.3 | 129.2 | 143.5 NM_004079.3 |
| 90.2 | 113.7 | 103.8 | 107.1 NM_001335.2 |
| 666.9 | 1347.7 | 1053.7 | 1155 NM_001336.2 |
| 150.4 | 91.9 | 84.4 | 97 NM_138565.1 |
| 125.7 | 105.7 | 100.2 | 100.5 NM_138565.1 |
| 86.8 | 86.8 | 80.4 | 83 NM_005231.2 |
| 89.9 | 81.9 | 91.1 | 93.7 NM_033427.1 |
| 109.4 | 94.3 | 84.1 | 99.7 NM_018704.1 |
| 254.4 | 121.6 | 96.5 | 102 NM_206833.1 |
| 88.5 | 75 | 90.1 | 85.9 NM_001048252.1 |
| 81.8 | 83.1 | 86.6 | 90.3 NM_001081.2 |
| 276.4 | 323.6 | 275.4 | 143.4 NM_017949.1 |
| 703.5 | 425.6 | 368 | 315.6 NM_024040.1 |
| 140.8 | 176.2 | 159.9 | 165.6 NM_198700.1 |
| 127.5 | 131.8 | 112.9 | 114.5 NM_198700.1 |
| 90.1 | 97.9 | 92.9 | 92.9 NM_001025076.1 |
| 260.4 | 348.4 | 334.6 | 239.1 NM_006561.2 |
| 205.6 | 168.5 | 156.4 | 152.9 NM_001025077.1 |
| 313.2 | 271 | 243 | 185.8 NM_003592.2 |
| 643.6 | 501.7 | 489.2 | 355.2 NM_003591.2 |
| 89.3 | 91.7 | 97.9 | 92.6 NM_003590.2 |
| 89.2 | 96 | 87.6 | 89.2 NM_001008895.1 |
| 732.5 | 675.1 | 653.8 | 662.6 NM_003589.2 |
| 137.6 | 158.7 | 142.1 | 144.1 NM_001079872.1 |
| 160.3 | 128.8 | 110.1 | 133.2 NM_003588.2 |
| 925.3 | 693.6 | 619.6 | 617.1 NM_003478.3 |
| 98.1 | 102.6 | 100.7 | 93.1 NM_014780.3 |
| 5866.7 | 4453.2 | 4328.1 | 2657.5 NM_001014433.2 |
| 1991.7 | 1535.9 | 1549.3 | 1299.7 NM_001014840.1 |
| 104.8 | 97.5 | 97.8 | 107.8 NM_015921.2 |
| 509.3 | 305.2 | 239.2 | 309 NM_015960.1 |
| 93.2 | 88.6 | 84.6 | 100 NM_181500.1 |
| 272.4 | 549.1 | 455.6 | 337.7 NM_181552.1 |
| 88.7 | 102.2 | 100.3 | 99.6 NM_001913.2 |
| 104.3 | 117.1 | 114.8 | 96.1 NM_015267.1 |
| 114.7 | 115.8 | 104.7 | 109 NM_022034.3 |
| 1806.6 | 995.4 | 890.3 | 597.7 NM_018294.3 |
| 270.1 | 331.7 | 247.4 | 233.1 NM_152434.1 |
| 75.2 | 80.6 | 85.3 | 77.5 NM_020660.1 |
| 79.2 | 86 | 86.7 | 77.1 NM_002996.3 |
| 956.5 | 580.8 | 640.5 | 555 NM_001337.3 |
| 86.7 | 84 | 83.8 | 87.7 NM_153368.1 |
| 85.8 | 90.2 | 77.8 | 81.5 NM_032602.1 |
| 83.4 | 84.1 | 78.7 | 87.5 NM_001338.3 |
| 93.4 | 87.8 | 89.2 | 89.6 NM_001511.1 |
| 86.8 | 89.4 | 93.1 | 88.2 NM_001565.1 |

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| 84.1 | 81.5 | 84.8 | 85.9 NM_005409.3 |
| 110.3 | 101.5 | 106.2 | 107.3 NM_199168.2 |
| 94.8 | 95.5 | 86.6 | 91.1 NM_001033886.1 |
| 86.6 | 88.8 | 84.3 | 82.3 NM_006419.1 |
| 87.2 | 86.3 | 88.7 | 83.9 NM_004887.3 |
| 112.2 | 116.5 | 108.3 | 98.7 NM_022059.1 |
| 87 | 90 | 89 | 91.5 NM_002089.1 |
| 89.3 | 84.3 | 89.7 | 92.3 NM_002090.2 |
| 90.3 | 88.8 | 79.6 | 86.3 NM_002994.3 |
| 93.9 | 92.5 | 91.2 | 83.4 NM_002993.2 |
| 85.8 | 83.5 | 93.4 | 67.7 NM_002416.1 |
| 94.3 | 91.8 | 88 | 78.9 NM_001504.1 |
| 304.6 | 395.5 | 302 | 239.9 NM_001008540.1 |
| 91.8 | 84.2 | 78.4 | 78.2 NM_001008540.1 |
| 1382.1 | 1597.4 | 1333.1 | 1168.4 NM_003467.2 |
| 92.9 | 93.9 | 86.5 | 97.3 NM_006564.1 |
| 91.6 | 91.7 | 95.9 | 97.7 NM_001047841.1 |
| 94.7 | 95.6 | 93.7 | 89.6 NM_004709.2 |
| 175.7 | 188.4 | 202.4 | 140.6 NM_003492.1 |
| 109.8 | 120 | 108.8 | 108.7 NM_018360.1 |
| 94.4 | 96.2 | 98.7 | 81.2 NM_001586.1 |
| 92.8 | 96.2 | 81.1 | 92.4 NM_153346.2 |
| 114.3 | 100.7 | 93 | 107.6 NM_025159.1 |
| 82.5 | 86 | 84.6 | 88.9 NM_152632.1 |
| 127.6 | 115.5 | 108.3 | 114.3 NM_198279.1 |
| 669.5 | 488.6 | 408.3 | 471 NM_016500.3 |
| 175 | 149.6 | 126.4 | 125.8 NM_198450.1 |
| 79.9 | 83.8 | 94.1 | 82.1 NM_024917.4 |
| 89.5 | 68.8 | 67.1 | 80.8 NM_024689.1 |
| 358.8 | 383.2 | 335.5 | 317.5 NM_144970.1 |
| 178.1 | 143.4 | 144.4 | 164.9 NM_207318.1 |
| 475 | 513.7 | 414.7 | 360.2 NM_178124.3 |
| 369.8 | 280.1 | 244.9 | 236.1 NM_001013845.1 |
| 87.3 | 85.4 | 84.5 | 87 NM_173494.1 |
| 95.3 | 98.4 | 98.9 | 88.2 NM_144657.2 |
| 133.6 | 135.8 | 151.6 | 126.6 NM_138362.1 |
| 153.5 | 218.7 | 223.9 | 217.5 NM_024810.1 |
| 95.9 | 91.8 | 97.8 | 102.6 NM_001031705.1 |
| 88.3 | 78.3 | 82.8 | 75 NM_017863.2 |
| 398.2 | 502.7 | 398.2 | 432.9 NM_024332.2 |
| 90.5 | 86.1 | 89.7 | 95.2 NM_152425.1 |
| 149.2 | 122.7 | 137.9 | 132.7 NM_022101.2 |
| 84.2 | 83.3 | 91.8 | 87.8 NM_005491.1 |
| 181.9 | 370.7 | 262.1 | 298.1 NM_018990.2 |
| 730.3 | 462 | 469.7 | 334.2 NM_003928.1 |
| 1412.6 | 1467.7 | 1417.7 | 672.2 NM_014593.2 |
| 95.7 | 79.6 | 90.2 | 93.1 NM_025212.1 |
| 2139.6 | 2079.9 | 1687.5 | 1643.8 NM_016463.5 |
| 106.7 | 96.3 | 89.3 | 97 NM_030625.1 |
| 2300.8 | 3412 | 3712.2 | 2181.6 NM_005088.2 |

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| 127.8 | 128.7 | 116.1 | 106.9 NM_001017916.1 |
| 148.2 | 118.5 | 117.5 | 104.5 NM_001017917.1 |
| 103.4 | 101.9 | 90.7 | 99.2 NM_001915.3 |
| 465.3 | 433.3 | 362.4 | 268.5 NM_007022.3 |
| 933.8 | 979.2 | 977.8 | 822.1 NM_148923.2 |
| 278 | 370.5 | 396.2 | 304.7 NM_001914.2 |
| 194 | 175.8 | 155.1 | 162.3 NM_144607.2 |
| 175.7 | 220.6 | 230.2 | 195.3 NM_144611.2 |
| 4668.7 | 2355.1 | 2289.3 | 1943.8 NM_030579.1 |
| 275.8 | 289.8 | 275.2 | 227.4 NM_016243.2 |
| 196.2 | 153.7 | 169.4 | 132.8 NM_016229.2 |
| 271.5 | 266.4 | 236.4 | 219.5 NM_007326.2 |
| 6482.5 | 3917.5 | 3721.2 | 2270.5 NM_007326.2 |
| 426.4 | 399.1 | 269.6 | 362.6 NM_016230.2 |
| 13998.5 | 9679.6 | 9754.3 | 6597.8 NM_000101.2 |
| 502.6 | 452.6 | 366 | 387.2 NM_153611.3 |
| 99.6 | 521.8 | 448.4 | 430 NM_000397.2 |
| 385 | 426.9 | 397 | 453.1 NM_024843.2 |
| 7219.9 | 4378.2 | 3745.5 | 2415 NM_001916.2 |
| 221.9 | 266.7 | 211.1 | 225.4 NM_018947.4 |
| 116.7 | 118.9 | 140 | 118.6 NR_001561.1 |
| 96 | 94.8 | 107.6 | 95.9 NM_014608.2 |
| 620.8 | 829.6 | 727.3 | 578.9 NM_001033028.1 |
| 100.2 | 94 | 89.9 | 81.1 NM_001033028.1 |
| 82.4 | 91.1 | 81.6 | 87 NM_001037333.1 |
| 102.5 | 113.4 | 109.6 | 105.6 NM_001037333.1 |
| 168.9 | 158.6 | 153.1 | 110.9 NM_014376.1 |
| 81 | 78.4 | 84.6 | 88.6 NM_134268.3 |
| 97.8 | 109.5 | 103.7 | 99.8 NM_032687.2 |
| 90.5 | 84.7 | 79.8 | 82.6 NM_021118.1 |
| 94.4 | 92.3 | 99 | 93.1 NM_001340.1 |
| 82.1 | 88.2 | 83.5 | 92.5 NM_015247.1 |
| 132.9 | 197.3 | 163.9 | 177.5 NM_015247.1 |
| 91.1 | 89.3 | 84.4 | 83.5 NM_003388.3 |
| 131.3 | 147.7 | 157.7 | 158.5 NR_001544.1 |
| 350.6 | 386.4 | 323.6 | 327.1 NM_001005852.1 |
| 127.9 | 142 | 136.4 | 133.2 NM_032576.2 |
| 111.9 | 116.4 | 112.3 | 102.1 NM_000781.1 |
| 94.8 | 77 | 71.6 | 78.8 NM_001026213.1 |
| 89.5 | 92.6 | 91.8 | 80.2 NM_000498.2 |
| 84.5 | 83.7 | 83.3 | 84.2 NM_000102.2 |
| 100 | 101.2 | 93.1 | 98.5 NM_000103.2 |
| 88.3 | 99.6 | 89.1 | 92.1 NM_031226.1 |
| 93.4 | 84.7 | 74.8 | 80 NM_031226.1 |
| 97.5 | 86.7 | 91.4 | 86.5 NM_000499.2 |
| 92.7 | 87.7 | 95.4 | 86 NM_000761.3 |
| 341.5 | 587.7 | 340.1 | 541.8 NM_000104.2 |
| 424.1 | 361 | 301.8 | 271.8 NM_177538.1 |
| 92.3 | 85.3 | 77.6 | 85.6 NM_177538.1 |
| 96.3 | 96.3 | 94.3 | 85.4 NM_000500.5 |

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| 97.9 | 80.8 | 77.7 | 82.8 NM_000782.3 |
| 89.6 | 83.6 | 81 | 87.1 NM_057157.1 |
| 88.8 | 91.2 | 89.3 | 90.3 NM_000783.2 |
| 93.5 | 90.2 | 80.4 | 85.9 NM_057157.1 |
| 86.8 | 92.4 | 90.2 | 80.6 NM_019885.2 |
| 79.3 | 80.1 | 88.6 | 79 NM_183374.2 |
| 140.3 | 241 | 242.9 | 239.8 NM_000784.2 |
| 139.8 | 124.6 | 128.3 | 103.1 NM_000785.3 |
| 90.3 | 81.2 | 93.7 | 87.4 NM_000766.3 |
| 86 | 91.2 | 89.7 | 82.3 NM_000762.4 |
| 111.1 | 103 | 103.3 | 100 NM_030589.2 |
| 89 | 91.3 | 79.3 | 89.1 NM_000767.4 |
| 83.8 | 85 | 85 | 81.5 NR_001278.1 |
| 99.3 | 103.3 | 93.1 | 101.2 NM_000772.1 |
| 99 | 83.3 | 90.1 | 89.2 NM_000769.1 |
| 86.6 | 89.9 | 84.4 | 85.1 NM_000770.2 |
| 94.3 | 94.9 | 93.2 | 83.1 NM_000771.2 |
| 104 | 95.9 | 96.5 | 87.1 NM_000106.4 |
| 120.4 | 122.5 | 121.7 | 111.9 NR_002570.2 |
| 95.8 | 96.6 | 91 | 92.3 NM_000773.3 |
| 94.7 | 84.9 | 75.9 | 82.3 NM_000774.3 |
| 115.3 | 140.6 | 126 | 119.2 NM_000775.2 |
| 206.9 | 169.6 | 159.1 | 170.9 NM_024514.4 |
| 111 | 106.8 | 99.8 | 100.8 NM_030622.5 |
| 382.9 | 300.2 | 268.5 | 203.6 NM_030622.6 |
| 92.4 | 88.3 | 82.5 | 100.8 NM_183075.2 |
| 92.4 | 95.8 | 74.7 | 77.3 NM_017781.2 |
| 91.6 | 84.7 | 79.3 | 89.3 NM_016593.3 |
| 74.9 | 87.8 | 78.7 | 86.3 NM_017460.3 |
| 100.1 | 86.4 | 85.3 | 92.6 NM_057096.2 |
| 94.2 | 89.3 | 87.2 | 81.2 NM_057095.1 |
| 90.4 | 88.2 | 89.1 | 84 NM_000777.2 |
| 91.5 | 85 | 92.3 | 91.4 NM_000765.2 |
| 96.9 | 97.5 | 95.3 | 95.6 NM_006668.1 |
| 96.1 | 86.4 | 82.5 | 89.4 NM_000778.2 |
| 105 | 88.4 | 92.5 | 86.6 NM_001010969.2 |
| 86.5 | 81.7 | 87.2 | 87 NM_000779.2 |
| 93.6 | 93.3 | 86 | 91.1 NM_021187.2 |
| 85.8 | 93.2 | 88.1 | 88.6 NM_023944.1 |
| 97.4 | 89 | 97.4 | 88.5 NM_001082.3 |
| 84.8 | 81.4 | 82.5 | 79.8 NM_000896.2 |
| 84.2 | 83.4 | 84.5 | 86.8 NM_007253.2 |
| 351.7 | 502.3 | 483.1 | 422.9 NM_207352.2 |
| 80 | 79.7 | 77.6 | 76.8 NM_178033.1 |
| 95.7 | 84.6 | 88.5 | 86.5 NM_178134.2 |
| 78.8 | 92.1 | 84 | 77.9 NM_178134.2 |
| 82.4 | 81.2 | 77.5 | 80.7 NM_178134.2 |
| 88.4 | 84.2 | 87.7 | 95.9 NR_002788.1 |
| 190.8 | 194.8 | 172.8 | 221.1 NM_000786.2 |
| 99.4 | 91.2 | 93.4 | 96.6 NM_000780.2 |

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| 93.9 | 88.8 | 87.9 | 87.9 NM_004820.2 |
| 90 | 92.2 | 95.6 | 92.8 NM_004391.1 |
| 94.1 | 85.9 | 83.1 | 98.5 NM_001554.3 |
| 98.2 | 86.9 | 86.7 | 87.2 XM_927934.1 |
| 90.1 | 93.9 | 88.5 | 81.8 NM_001037160.1 |
| 467.1 | 377.2 | 328.7 | 363.5 NM_006639.2 |
| 95.6 | 89 | 76.8 | 81.1 NM_020377.2 |
| 86.8 | 68.1 | 71.7 | 75.1 NM_018659.2 |
| 88.4 | 87.3 | 92.9 | 93.1 NM_052954.2 |
| 603.5 | 528.6 | 440.1 | 373.3 NM_015704.1 |
| 81 | 88.5 | 76.1 | 77.7 NM_003683.4 |
| 514.7 | 1086.3 | 1431.8 | 805.8 NM_152783.3 |
| 97.7 | 89.7 | 93.5 | 91.5 NM_014392.2 |
| 303.1 | 245.9 | 220.1 | 188.8 NM_130468.2 |
| 92.2 | 102.3 | 94.8 | 103.8 NM_014992.1 |
| 93.9 | 90.8 | 86.7 | 86.5 NM_015345.2 |
| 76.1 | 74.3 | 77.5 | 72.7 NM_021080.3 |
| 179.4 | 386.9 | 424.9 | 259.9 NM_001343.1 |
| 88 | 100.7 | 93.1 | 97.5 NM_032552.1 |
| 87.2 | 78.5 | 87.4 | 89.6 NM_138709.1 |
| 83.7 | 98.3 | 85.2 | 96.7 NM_138709.1 |
| 87.7 | 94.2 | 99.4 | 93.6 NM_080760.3 |
| 97.3 | 98.7 | 95 | 92.4 NM_080759.3 |
| 169.6 | 226.5 | 240.9 | 222 NM_080759.3 |
| 92 | 98.2 | 86.4 | 95.2 NM_016651.5 |
| 99.5 | 106 | 98.2 | 96.7 NM_016651.4 |
| 97.5 | 96.3 | 90.8 | 84.7 NM_016651.5 |
| 96.1 | 91.7 | 91.5 | 86.6 NM_214462.1 |
| 4575.4 | 2816.4 | 2482.5 | 1993.7 NM_001344.1 |
| 272.8 | 253.9 | 246 | 230 NM_004393.1 |
| 121.5 | 117.4 | 124.5 | 119.2 NM_015533.2 |
| 174.1 | 114 | 116.9 | 112.4 NM_018114.4 |
| 79.6 | 74.4 | 86.1 | 88 NM_018114.4 |
| 106.4 | 97.2 | 102.2 | 100.2 NM_152654.2 |
| 84.8 | 84.9 | 88.1 | 93.7 NM_001917.3 |
| 86.4 | 84.2 | 86.9 | 93.7 NM_172370.2 |
| 487.6 | 395.7 | 311.6 | 281.4 NM_004394.1 |
| 2291.2 | 1631.5 | 1299.1 | 1305.9 NM_033657.1 |
| 116.8 | 189.6 | 166.8 | 178.5 NM_004938.1 |
| 123 | 100.6 | 89 | 94.8 NM_014326.3 |
| 149.7 | 147.4 | 122 | 123.6 NM_001348.1 |
| 1428.3 | 1976.7 | 2578.8 | 1544.4 NM_014395.1 |
| 85 | 86.1 | 72.6 | 90.4 NM_002036.2 |
| 6930.2 | 6806.1 | 5531.7 | 4667.9 NM_001349.2 |
| 478.2 | 362.8 | 327.1 | 260 NM_018122.3 |
| 320 | 214.5 | 222.8 | 199 NM_001350.3 |
| 84.6 | 88.3 | 81.8 | 78.4 NM_004081.4 |
| 90.2 | 79 | 90.4 | 84.3 NM_020363.2 |
| 104.4 | 101 | 87.9 | 94.1 NM_001005785.1 |
| 87.4 | 79.8 | 87.2 | 90.9 NM_020420.2 |

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| 98.2 | 91 | 87.2 | 87 NM_170711.1 |
| 784 | 412.1 | 476.3 | 248.9 NM_018959.2 |
| 10335.9 | 8904.4 | 8199.4 | 5839.3 NM_014764.2 |
| 95.1 | 89.8 | 90.9 | 84.6 NM_001351.2 |
| 75.8 | 79.6 | 81.5 | 79.4 NM_014618.1 |
| 99.6 | 97.8 | 93.9 | 98.8 NM_006716.3 |
| 111.8 | 101.1 | 100.8 | 102.1 NM_025104.2 |
| 87.6 | 88.3 | 85.3 | 87.6 NM_145663.1 |
| 76.1 | 75 | 74.5 | 96 NM_000787.2 |
| 8371.7 | 6277.3 | 5388.1 | 5864.7 NM_001079863.1 |
| 735.6 | 680.8 | 577.6 | 594.3 NM_020548.4 |
| 615 | 403.9 | 310 | 215.2 NM_080881.1 |
| 91.8 | 87.8 | 79.2 | 106.2 NM_004395.2 |
| 123.9 | 104.3 | 106.4 | 95.7 NM_001042610.1 |
| 82 | 83.3 | 77.1 | 80.6 NM_001048221.1 |
| 3163.9 | 2706.5 | 2345.4 | 1338.6 NM_014063.5 |
| 404.4 | 345.8 | 363.8 | 280.8 NM_014063.5 |
| 115.7 | 121.9 | 129.3 | 136.6 NM_001352.2 |
| 196.7 | 159.2 | 163 | 151.2 NM_016216.2 |
| 1261.9 | 874 | 939.3 | 571.1 NM_001918.1 |
| 91.2 | 89.3 | 77.7 | 74.3 NM_001029865.1 |
| 92.2 | 86.1 | 89.7 | 86.5 NM_001004329.2 |
| 349.6 | 225.8 | 260.8 | 293.9 NM_021227.2 |
| 871.1 | 1063.7 | 971 | 719.6 NM_024819.3 |
| 95.1 | 90 | 74.5 | 88 NM_172004.2 |
| 96.3 | 97.6 | 97.9 | 96.9 NM_004734.2 |
| 103.5 | 103.1 | 102.4 | 89.9 NM_001040260.1 |
| 91.9 | 89.4 | 79.2 | 84.2 NM_152619.1 |
| 208.4 | 196.9 | 164.8 | 168 NM_173674.1 |
| 398 | 380.9 | 357.7 | 346.6 NM_080927.3 |
| 100.7 | 87.5 | 89.6 | 87.7 NM_005215.1 |
| 171.7 | 142.1 | 127.8 | 116.1 NM_024094.1 |
| 90.2 | 85.6 | 74 | 89.3 NM_053283.1 |
| 82.3 | 88.9 | 86.7 | 83 NM_181807.1 |
| 86.3 | 89 | 100.3 | 87.6 NM_016356.1 |
| 256 | 196.5 | 189.8 | 165.6 NM_198462.2 |
| 108.9 | 92.8 | 105.3 | 82.2 NM_003737.2 |
| 83.1 | 87.5 | 82.6 | 86 NM_017639.2 |
| 213.3 | 175.3 | 194.4 | 139.4 NM_001919.2 |
| 132.4 | 131.1 | 126.5 | 140.6 NM_000788.1 |
| 234.9 | 203.4 | 216.5 | 177.7 NM_014881.2 |
| 111.6 | 104.7 | 97.3 | 104.8 NM_022836.2 |
| 272.1 | 269.9 | 243.3 | 213 NM_001033858.1 |
| 118.7 | 102.1 | 100.6 | 93.8 NM_001033858.1 |
| 261.5 | 326.6 | 481.8 | 303.5 NM_022487.2 |
| 87.9 | 81.5 | 76.1 | 91.6 NM_001920.3 |
| 87.4 | 82.9 | 86 | 82.2 NM_133503.2 |
| 92.5 | 89.2 | 83.6 | 92.6 NM_133505.2 |
| 235.3 | 274.8 | 261.5 | 251.1 NM_018403.2 |
| 101.3 | 102.1 | 97 | 97.8 NM_152640.3 |

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|--------|--------|--------|--------|----------------|
| 1024 | 1536.8 | 1337.2 | 1253.8 | NM_152624.4 |
| 596.4 | 312.7 | 259.4 | 212.1 | NM_014026.3 |
| 91 | 98.5 | 81.9 | 85.5 | NM_152494.1 |
| 80.2 | 77 | 70.8 | 78.5 | NM_144622.1 |
| 100.8 | 94.2 | 88 | 86 | NM_001922.2 |
| 178.6 | 153.2 | 114.7 | 129 | NM_001921.2 |
| 1681.7 | 983.2 | 914.8 | 660.4 | NM_001921.2 |
| 566.7 | 507.3 | 472.9 | 366.4 | NM_023019.1 |
| 82.5 | 88.8 | 80 | 90.5 | NM_004082.2 |
| 142.2 | 133.9 | 126.4 | 128 | NM_023019.1 |
| 1805.3 | 1433.5 | 1474.9 | 846.8 | NM_006400.3 |
| 101 | 89.5 | 81.4 | 92.4 | NM_024348.2 |
| 3418.1 | 1758.3 | 1749.3 | 1264.6 | NM_024348.2 |
| 332 | 348.4 | 308.7 | 271.8 | NM_016221.2 |
| 1582 | 1024.1 | 816.4 | 679.4 | NM_032486.2 |
| 104.6 | 93.9 | 90.2 | 107.4 | NM_006571.2 |
| 242.7 | 236.6 | 197.1 | 168.2 | NM_152277.1 |
| 88 | 89 | 91.5 | 83 | NM_020640.2 |
| 120.2 | 124.5 | 128.2 | 109.9 | NM_001014283.1 |
| 148.5 | 166.6 | 173.2 | 123.8 | NM_173475.1 |
| 157.1 | 162.7 | 146.6 | 129.8 | NM_015115.1 |
| 495.9 | 355.3 | 357.7 | 396.3 | NM_015115.1 |
| 1195.2 | 708 | 523.9 | 738.5 | NM_032299.2 |
| 113.8 | 103 | 105.4 | 100.4 | NM_178151.1 |
| 95.2 | 87.9 | 81.2 | 86.1 | NM_000555.2 |
| 1477.7 | 804.9 | 727.2 | 498.5 | NM_016286.2 |
| 1436.3 | 783.3 | 773.4 | 447.7 | NM_024050.4 |
| 134.4 | 155.5 | 118 | 142 | NM_012137.2 |
| 108.7 | 108.1 | 121.2 | 105.5 | NM_013974.1 |
| 4714.4 | 3925.6 | 4073.5 | 2093.2 | NM_001923.2 |
| 105.3 | 129.2 | 122.4 | 117.9 | NM_001923.2 |
| 92.8 | 100.7 | 107.4 | 85 | NM_000107.1 |
| 110.9 | 95 | 100.2 | 89.9 | NM_000790.2 |
| 208.9 | 233.5 | 195.1 | 225.1 | NM_018482.2 |
| 152.7 | 118.7 | 103.8 | 103.1 | NM_003887.1 |
| 88.9 | 107.6 | 90.7 | 88.2 | NM_017707.2 |
| 84.1 | 85.7 | 87.5 | 88.1 | NM_030637.1 |
| 129.8 | 117.1 | 114.2 | 111.4 | NM_015214.1 |
| 104.9 | 100.4 | 100.9 | 82.8 | NM_001001711.1 |
| 94.2 | 85.1 | 82.5 | 100.7 | NM_032341.3 |
| 425.3 | 453.1 | 431.9 | 403.1 | NM_004083.4 |
| 495.7 | 1017.7 | 890.9 | 688.2 | NM_019058.2 |
| 140.6 | 125.2 | 127.5 | 120.9 | NM_145244.2 |
| 92.3 | 83.2 | 88.2 | 93.6 | NM_015086.1 |
| 94.1 | 92.1 | 86.7 | 95.6 | NM_003649.2 |
| 99.6 | 96 | 101.1 | 101.3 | NM_004032.2 |
| 2237.5 | 2096 | 2093.4 | 1483.1 | NM_005216.3 |
| 104.3 | 100 | 93.7 | 94.6 | NM_001954.3 |
| 94.5 | 89.2 | 83.9 | 84.2 | NM_013994.2 |
| 92.9 | 97.7 | 102.8 | 104.5 | NM_001954.3 |

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| 91.5 | 92.5 | 91.6 | 94 NM_001014796.1 |
| 104 | 89.1 | 90.5 | 93.5 NM_006182.2 |
| 3320.3 | 2939.2 | 3356.8 | 2254.2 NM_001355.2 |
| 3865.5 | 2999.7 | 2235.5 | 2647.1 NM_004939.1 |
| 687.5 | 518.7 | 388.3 | 319.3 NM_004398.2 |
| 111.5 | 98 | 92.4 | 97.7 NM_030653.3 |
| 131 | 120 | 131.2 | 136.9 NM_030653.3 |
| 96.3 | 100.2 | 86.6 | 92.8 NM_004399.1 |
| 647.3 | 510.3 | 598.9 | 1145.7 NM_030881.2 |
| 143.7 | 234 | 283 | 254.7 NM_030881.2 |
| 426.4 | 585.2 | 633.6 | 599.1 NM_006386.3 |
| 2278.5 | 1944.9 | 1559.6 | 1029.9 NM_006773.3 |
| 512.3 | 516.1 | 482.5 | 319.9 NM_018332.3 |
| 953.9 | 1008.9 | 953.6 | 477.8 NM_001014451.1 |
| 136.3 | 93.7 | 94.1 | 91.8 NM_007204.3 |
| 2091.3 | 1291.9 | 732 | 1118.4 NM_004728.2 |
| 613.2 | 351 | 337.6 | 279.4 NM_004818.2 |
| 959.1 | 693.4 | 595.2 | 634.5 NM_020414.3 |
| 91.9 | 83.9 | 89.5 | 92.5 NM_013264.2 |
| 1064 | 883.2 | 840.3 | 682.4 NM_012141.1 |
| 101.3 | 88.5 | 94.7 | 96.2 NM_182540.3 |
| 275.8 | 292 | 262.4 | 194.4 NM_017895.6 |
| 157.1 | 152.4 | 125.3 | 126 NM_018380.2 |
| 264.7 | 230.2 | 181.2 | 150.3 NM_022779.7 |
| 92.8 | 88.5 | 93 | 92.9 NM_138620.1 |
| 135.9 | 98.6 | 96.6 | 109 NM_138620.1 |
| 4369.1 | 2569.8 | 2024.7 | 2096.9 NM_005804.2 |
| 86.3 | 88.2 | 84.7 | 92 NM_024005.1 |
| 1382.9 | 1381.7 | 1001.1 | 1250.8 NM_001356.2 |
| 94.7 | 82 | 90.6 | 96.5 NM_004660.2 |
| 94.6 | 87.4 | 87.8 | 88.7 NM_019039.1 |
| 464.5 | 497.5 | 438.1 | 274.1 NM_016222.2 |
| 95.8 | 113.5 | 114.9 | 113.1 NM_007372.2 |
| 1076.6 | 1218.3 | 1147.8 | 719.6 NM_007372.2 |
| 96.4 | 91.2 | 87.1 | 92.7 NM_018665.1 |
| 749.2 | 775.6 | 788.1 | 591.5 NM_014829.2 |
| 421.7 | 288.8 | 199.3 | 216.8 NM_016355.3 |
| 785.9 | 586.7 | 484.9 | 422.3 NM_201224.1 |
| 3634.3 | 2699.2 | 2428.4 | 1925 NM_014740.2 |
| 103.9 | 100.9 | 106.7 | 91.5 NM_019070.3 |
| 6888.8 | 5797.8 | 4747.3 | 4319.7 NM_004396.2 |
| 304.7 | 191 | 217.8 | 178.3 NM_024045.1 |
| 2137.9 | 3399.8 | 3782 | 2796.9 NM_175066.2 |
| 107.4 | 108.4 | 110.4 | 112.6 NM_007010.2 |
| 88 | 74.8 | 88.1 | 90.5 NM_182699.2 |
| 236.1 | 203.7 | 212.7 | 177.9 NM_024072.3 |
| 889.8 | 851.1 | 727.4 | 438.3 NM_020936.1 |
| 1324.1 | 915.8 | 865.4 | 603.7 NM_019082.2 |
| 117.4 | 128.3 | 113.4 | 99.5 NM_014314.2 |
| 602.1 | 541.3 | 493.8 | 458 NM_001031725.1 |

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| 82.8 | 81.3 | 79.1 | 82.9 NM_031306.1 |
| 114.7 | 125 | 98.9 | 125.2 NM_001031725.1 |
| 106.3 | 108.6 | 91.1 | 93.4 NM_004397.3 |
| 114.5 | 104.1 | 104.5 | 101.7 NM_182503.1 |
| 131.3 | 116.7 | 123.9 | 118 NM_021008.2 |
| 94.8 | 99.5 | 90.6 | 97.4 NM_021008.2 |
| 96 | 86.3 | 81.5 | 83.1 NM_017418.1 |
| 1223.6 | 644.4 | 435.8 | 455.5 NM_001359.1 |
| 647.9 | 440.5 | 422.5 | 199.2 NM_020664.3 |
| 556.5 | 482.3 | 391.8 | 430.1 NM_001039712.1 |
| 81.2 | 81.4 | 88.6 | 82.4 NM_032998.1 |
| 218.4 | 207.3 | 152.3 | 146.9 NM_004216.2 |
| 484.7 | 343.1 | 301.7 | 252.4 NM_133328.2 |
| 357.9 | 407.7 | 412.1 | 232 NM_022047.2 |
| 95.2 | 83.5 | 80.6 | 82.3 NM_004084.2 |
| 85.5 | 75.3 | 76.5 | 91.2 NM_005217.2 |
| 100.2 | 111.7 | 107.2 | 109 NM_001925.1 |
| 100.5 | 91.7 | 106.6 | 93.4 NM_021010.1 |
| 91.4 | 84.3 | 75.6 | 87.1 NM_001926.2 |
| 398.5 | 512.1 | 396.7 | 403.7 NM_005218.3 |
| 105.6 | 103.7 | 98.7 | 107.3 NM_018661.3 |
| 84.3 | 82.6 | 83.4 | 76.8 NM_001040702.1 |
| 88 | 87.4 | 82.8 | 91.5 NM_152250.1 |
| 86.5 | 81.7 | 82.3 | 83.8 NM_152251.2 |
| 91.3 | 111.7 | 94.9 | 86.2 NM_001040704.1 |
| 110.7 | 114.6 | 107.6 | 96.4 NM_001037668.1 |
| 95.6 | 92.6 | 81.7 | 88 NM_001002035.1 |
| 87.8 | 89.5 | 80.6 | 82.9 NM_001037380.1 |
| 83.3 | 77.7 | 84.6 | 87.8 NM_001037728.1 |
| 86.7 | 82.3 | 80.1 | 81.9 NM_001037497.1 |
| 85.2 | 87.2 | 84 | 89 NM_001037498.1 |
| 83.2 | 81.4 | 74.2 | 93.7 NM_001037499.1 |
| 87.7 | 89.3 | 88.2 | 97.4 NM_054112.1 |
| 128.1 | 108.9 | 110.9 | 106.2 NM_153323.3 |
| 88.7 | 81 | 81 | 83.5 NM_153323.3 |
| 79.5 | 74.6 | 82.7 | 79.2 NM_001011878.1 |
| 94.1 | 92.9 | 93.5 | 96 NR_002577.1 |
| 95 | 90.6 | 87 | 94.4 NM_153324.2 |
| 82.4 | 94.4 | 90.5 | 88.4 NM_001037500.1 |
| 92.3 | 102.3 | 85.7 | 102.5 NM_153325.2 |
| 91.8 | 90.5 | 83.4 | 83.6 NM_030931.2 |
| 96.1 | 87.4 | 84.4 | 86 NM_139074.2 |
| 87.6 | 85.5 | 87.7 | 84.8 NM_001037732.1 |
| 97.3 | 84.2 | 74.6 | 84.6 NM_080831.2 |
| 111.1 | 87.5 | 86 | 94.5 NM_001040448.1 |
| 85.8 | 82.7 | 86.2 | 93.7 NM_001033019.1 |
| 86.2 | 85.9 | 80.5 | 87.4 NM_001033017.1 |
| 89.1 | 85.2 | 84.4 | 81.4 NM_001033018.1 |
| 88.6 | 80.9 | 86.1 | 87.6 NM_207469.1 |
| 94 | 87.1 | 72.7 | 89.7 NM_004942.2 |

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| 4099.1 | 3261.5 | 2972.7 | 2075.3 | NM_003676.2 |
| 1901.5 | 1329.7 | 1078.6 | 1306 | NM_003676.2 |
| 103.6 | 105.6 | 92.9 | 101.2 | NM_206918.1 |
| 1757.6 | 1172.3 | 1178.9 | 1379.7 | NM_003472.2 |
| 526.7 | 804 | 851.5 | 497.8 | NM_024820.2 |
| 121.5 | 107.3 | 115.1 | 93.9 | NM_020946.1 |
| 176.8 | 266.4 | 233 | 203 | NM_024820.2 |
| 96 | 91 | 85.2 | 86.2 | NM_144977.1 |
| 121.9 | 107.2 | 108.2 | 99.3 | NM_024898.1 |
| 81.9 | 77.4 | 77 | 73.9 | NM_015689.2 |
| 86.1 | 90.1 | 83.1 | 84.5 | NM_198459.3 |
| 240 | 231 | 196.2 | 190 | NM_024901.3 |
| 205.8 | 253.7 | 212 | 203.5 | NM_014957.2 |
| 171.8 | 155.8 | 129 | 144.9 | NM_005848.2 |
| 198.5 | 241.1 | 265.7 | 197 | NM_017925.3 |
| 226.7 | 302.2 | 381.3 | 313.2 | NM_003677.3 |
| 91.1 | 78.9 | 85.3 | 92 | NM_017779.3 |
| 250.5 | 178.8 | 181.4 | 153.3 | NM_018369.1 |
| 88.7 | 87.3 | 89.3 | 80.3 | NM_025170.4 |
| 85.2 | 96.3 | 87.8 | 92 | NM_024870.2 |
| 96.2 | 93.8 | 103.8 | 95.6 | NM_152317.2 |
| 191.9 | 185.3 | 173.5 | 155.3 | NM_014662.2 |
| 95.1 | 88.6 | 94.6 | 99.9 | NM_001007188.1 |
| 74.9 | 73 | 69 | 79.8 | NM_001007188.1 |
| 150.9 | 154.7 | 153 | 138.6 | NM_022783.1 |
| 106.9 | 95.5 | 101 | 100 | NM_001077242.1 |
| 101.6 | 106.2 | 107.5 | 91.7 | NM_001077242.1 |
| 1497.4 | 1327.4 | 1269.2 | 905.1 | NM_015954.1 |
| 1105.3 | 791.7 | 625.6 | 622.5 | NM_024295.3 |
| 192.8 | 213 | 195.5 | 156.2 | NM_016041.2 |
| 94.4 | 91.7 | 85.1 | 95.2 | NM_198440.2 |
| 90.8 | 92.7 | 84.1 | 94.4 | NM_001002862.1 |
| 90 | 89 | 89.4 | 90.8 | NM_001002847.1 |
| 130.4 | 132.7 | 130.4 | 129.7 | NM_017804.3 |
| 92.5 | 84.8 | 81.5 | 85.2 | NM_001927.3 |
| 226.5 | 236.2 | 200.7 | 201.2 | NM_017996.2 |
| 971.2 | 646.7 | 703.3 | 448.9 | NM_014015.3 |
| 346.9 | 418.1 | 378.8 | 230.3 | NM_004401.2 |
| 132.3 | 131 | 134 | 117.5 | NM_213566.1 |
| 93.3 | 84.3 | 87 | 84.4 | NM_001004285.1 |
| 229.6 | 243.1 | 217.3 | 166.4 | NM_001004286.1 |
| 281.4 | 405 | 343.1 | 315.9 | NM_004403.1 |
| 97.4 | 93 | 88.7 | 96.1 | NM_015404.1 |
| 94.1 | 93.6 | 83.2 | 105.2 | NM_001042702.1 |
| 389.8 | 390.5 | 362.1 | 266.1 | NM_012079.2 |
| 94.1 | 109 | 101.9 | 89.8 | NM_032564.2 |
| 110.6 | 90.3 | 106.8 | 101.4 | NM_001013579.1 |
| 97 | 94.2 | 99 | 97.9 | NM_001002254.1 |
| 88.8 | 88.7 | 85 | 90.2 | NM_198512.1 |
| 134.6 | 112.5 | 117.5 | 105.1 | NM_001024733.1 |

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| 176.6 | 149.5 | 160.6 | 127.8 NM_022719.1 |
| 288.7 | 251.2 | 235.1 | 230.2 NM_005137.1 |
| 96.9 | 97.5 | 88.1 | 95.1 NR_002733.1 |
| 134.7 | 170.9 | 172.7 | 146.9 NM_005675.3 |
| 520.4 | 425.9 | 361.6 | 324 NM_022720.5 |
| 81.3 | 84 | 77.9 | 86.5 NM_001345.4 |
| 80.6 | 85.9 | 83.9 | 86.3 NM_201445.1 |
| 105.7 | 101.3 | 109 | 97.6 NM_201554.1 |
| 87.6 | 82.9 | 74.9 | 84.8 NM_201444.2 |
| 110.7 | 98.1 | 96.2 | 104.3 NM_201554.1 |
| 89 | 96.4 | 90.7 | 85.4 NM_145695.1 |
| 90.4 | 75.5 | 79.1 | 87.7 NM_145695.1 |
| 90.5 | 81.4 | 85.5 | 88.7 NM_004080.1 |
| 90.9 | 95.1 | 85.6 | 77.7 NM_152879.2 |
| 110.6 | 121.8 | 115.7 | 111.9 NM_152879.2 |
| 86.9 | 79.8 | 83.8 | 88.9 NM_003648.2 |
| 100.5 | 106 | 93.4 | 91.5 NM_003647.1 |
| 115.8 | 121.2 | 107.2 | 99.7 NM_001346.1 |
| 101.6 | 90.6 | 76.7 | 81 NM_152910.3 |
| 88.4 | 93 | 82.6 | 93.5 NM_178009.2 |
| 86.6 | 80.5 | 83.7 | 94.5 NM_004717.2 |
| 94.7 | 85.9 | 90.1 | 92 NM_001013742.1 |
| 748.8 | 803.6 | 597.8 | 486.9 NM_001347.2 |
| 93.9 | 84.9 | 78.7 | 80.7 NM_201532.1 |
| 82 | 86.8 | 83.2 | 98.2 NM_003646.2 |
| 147.4 | 168.1 | 159 | 141.1 NM_201533.1 |
| 2874.8 | 2028.9 | 1989.5 | 1192 NM_080916.1 |
| 3312.9 | 2013.7 | 1952.2 | 1636.4 NM_080916.1 |
| 340 | 304.7 | 262.3 | 215.6 NM_080916.1 |
| 360.2 | 319.8 | 284.7 | 206.6 NM_014762.2 |
| 263.8 | 234.3 | 252.7 | 202 NM_001360.2 |
| 216.1 | 259.2 | 231.4 | 228.1 NM_024887.2 |
| 139.3 | 152.5 | 124.9 | 136.2 NM_024887.2 |
| 103.6 | 114.4 | 117.2 | 98.2 NM_014475.2 |
| 202.6 | 176.5 | 175.5 | 190.1 NM_000791.3 |
| 115.9 | 101.1 | 107.2 | 108.6 NM_176815.2 |
| 95.6 | 90.6 | 94.3 | 91.3 NM_021044.2 |
| 112.3 | 100.5 | 106.3 | 93 NM_001025193.1 |
| 150.3 | 99.4 | 105.6 | 92.1 NM_001361.3 |
| 895.7 | 488.3 | 458.9 | 389.5 NM_001930.2 |
| 674.9 | 469.9 | 477.1 | 325.8 NM_001930.2 |
| 1140.6 | 760 | 723.6 | 726.5 NM_013406.1 |
| 295.6 | 246.8 | 312.9 | 176.1 NM_138452.1 |
| 96.7 | 100 | 100.4 | 94.2 NM_016246.2 |
| 101.8 | 91 | 100.1 | 95.5 NM_182908.3 |
| 94.4 | 91.2 | 76.6 | 86.2 NM_182908.3 |
| 115.9 | 104.3 | 102.3 | 108.5 NM_004753.4 |
| 2834.6 | 2585 | 2196.3 | 1840.8 NM_021004.2 |
| 230.3 | 282.1 | 271.4 | 208.7 NM_198083.1 |
| 799.5 | 463.2 | 455.5 | 328.1 NM_016029.1 |

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| 183.9 | 162.5 | 175.6 | 140.7 | NM_015510.3 |
| 604.1 | 353.2 | 289.1 | 326.3 | NM_016245.2 |
| 5133.8 | 2502.5 | 2555.4 | 1514.6 | NM_005771.3 |
| 372.2 | 369.8 | 284.4 | 268.3 | NM_005771.3 |
| 93.2 | 88.6 | 88.8 | 91.5 | NM_199204.1 |
| 1424.8 | 627.1 | 557.1 | 580.8 | NM_005771.3 |
| 130.7 | 126.1 | 115.8 | 113.8 | NM_145177.1 |
| 118.3 | 121.5 | 111.1 | 114.1 | NM_018706.4 |
| 5248.7 | 3389.9 | 2978.6 | 2429.7 | NM_001358.2 |
| 568.9 | 587.7 | 529.4 | 381.7 | NM_003587.3 |
| 935.9 | 1020.4 | 797.2 | 967.1 | NM_019030.2 |
| 779.5 | 623.8 | 518.3 | 505.9 | NM_014966.2 |
| 93.4 | 90.5 | 88.3 | 92.7 | NM_138614.1 |
| 275.1 | 231.8 | 203.6 | 192.7 | NM_014966.2 |
| 398.8 | 239 | 238.3 | 179.8 | NM_018180.2 |
| 392.4 | 363.8 | 293.5 | 297.5 | NM_020162.2 |
| 178.7 | 171.6 | 182.8 | 133.7 | NM_194428.1 |
| 231.4 | 250.7 | 225.5 | 167.7 | NM_021931.2 |
| 223 | 241.4 | 172.1 | 197.8 | NM_020865.1 |
| 587 | 513.6 | 452.1 | 273.4 | NM_032656.2 |
| 205.8 | 245.8 | 177.7 | 151 | NM_014003.3 |
| 509.8 | 423.1 | 363.4 | 278.7 | NM_024612.3 |
| 178.5 | 182.8 | 140.1 | 177.9 | NM_024612.3 |
| 101.6 | 103.3 | 101.7 | 108.8 | NM_144995.2 |
| 98.5 | 93.7 | 98.8 | 87 | NM_198963.1 |
| 174.6 | 177.5 | 131.2 | 134 | NM_004941.1 |
| 520.4 | 542.9 | 409 | 399.2 | NM_001357.2 |
| 2013.8 | 1760.5 | 1697.3 | 1216 | NM_138930.2 |
| 359.2 | 259.9 | 265.6 | 267.7 | NM_019887.3 |
| 219.4 | 161.4 | 164.7 | 129.5 | NM_138930.2 |
| 321.5 | 232.7 | 245 | 199 | NM_005219.2 |
| 1582.5 | 1089.8 | 871.9 | 686.6 | NM_005219.3 |
| 303.7 | 383.3 | 344.8 | 300.5 | NM_007309.1 |
| 193.6 | 152.1 | 132.8 | 117.3 | NM_001042517.1 |
| 215.4 | 134.1 | 127.2 | 133.1 | NM_030932.2 |
| 206.9 | 155.9 | 140.5 | 134.2 | NM_001042517.1 |
| 93.7 | 81.5 | 82.4 | 84.6 | NM_030621.2 |
| 90.9 | 85.4 | 87.9 | 84.8 | NM_177438.1 |
| 102.4 | 100.9 | 103 | 109 | NM_030621.2 |
| 142.6 | 127.5 | 128 | 111 | NM_080796.2 |
| 160.6 | 147 | 161.3 | 122.9 | NM_080797.2 |
| 105.9 | 112.5 | 105.7 | 104.1 | NM_080796.2 |
| 99.2 | 86.9 | 76.7 | 87.4 | NM_000792.4 |
| 101.1 | 96.8 | 84.9 | 91.8 | NM_213593.3 |
| 81 | 71.8 | 71.1 | 81.3 | NM_000792.4 |
| 105.5 | 92.1 | 87.9 | 93.7 | NM_001007023.1 |
| 97.6 | 86.9 | 82.5 | 85.6 | NM_013989.2 |
| 105.9 | 96.5 | 92.3 | 90.3 | NM_001362.2 |
| 934.5 | 1070.8 | 1056.3 | 599.6 | NM_015124.2 |
| 239.1 | 232.1 | 233.2 | 210.8 | NM_018171.2 |

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| 87 | 78 | 75.3 | 90.2 NM_206891.1 |
| 87.4 | 95.2 | 88.3 | 91.5 NM_206889.1 |
| 166.6 | 146.8 | 148.5 | 108.7 NM_206890.1 |
| 114.4 | 108.9 | 98.6 | 109.2 NM_206889.1 |
| 141.5 | 185.7 | 192.4 | 209.1 NM_015151.2 |
| 431.2 | 637.9 | 630 | 514.8 NM_173602.2 |
| 80.9 | 81.4 | 82.2 | 82.6 NM_014974.1 |
| 101.1 | 85.9 | 84.9 | 82.6 NM_006848.2 |
| 85 | 102.4 | 83.8 | 91 NM_145173.1 |
| 83.8 | 87.4 | 72.2 | 78.9 NM_017594.3 |
| 95.4 | 101.2 | 96.5 | 95.1 NM_004675.2 |
| 84.8 | 83.6 | 78.4 | 83.1 NM_052952.1 |
| 245.9 | 208 | 189.3 | 174.1 NM_032839.1 |
| 105.3 | 183.7 | 230.6 | 182.2 NM_001012959.1 |
| 95 | 90 | 89 | 84.3 NM_001012958.1 |
| 91 | 85.2 | 96.9 | 76.8 NM_001012959.1 |
| 96 | 98.4 | 91.5 | 88.6 NM_018662.2 |
| 172.6 | 142.3 | 135.1 | 143.8 NM_032890.2 |
| 103 | 107.5 | 97.9 | 100.7 NM_033510.1 |
| 132.5 | 121.5 | 109.6 | 109.2 NM_001037954.2 |
| 85.7 | 83.1 | 84.6 | 83.3 NM_001037954.2 |
| 105.1 | 109.8 | 85.9 | 97.7 NM_033425.1 |
| 1320.4 | 1687.8 | 1266.3 | 1179.4 NM_020466.3 |
| 166.7 | 134.7 | 119.9 | 131.1 NR_002184.1 |
| 3512 | 2722.6 | 1911.3 | 1842.5 NM_001363.2 |
| 89.7 | 82.4 | 90.3 | 90.1 NM_001002840.1 |
| 119.1 | 155.5 | 186.8 | 161.4 NM_018991.2 |
| 147.9 | 195.2 | 153.5 | 173.9 NM_015395.1 |
| 92.5 | 72.7 | 74.6 | 86.8 NM_178275.3 |
| 94.4 | 106.9 | 98.2 | 93.1 NM_194295.1 |
| 361.1 | 301.8 | 265.2 | 165.2 NM_152892.1 |
| 89 | 71.4 | 81 | 75.8 NM_015594.2 |
| 105.1 | 109.6 | 97 | 87.6 NM_194302.1 |
| 151.8 | 142.9 | 132.9 | 148.4 NM_207343.1 |
| 214.6 | 219.4 | 192.6 | 189.6 NM_207343.1 |
| 96.8 | 100.4 | 93.4 | 98.6 NM_020161.2 |
| 263.1 | 226.1 | 222.8 | 187 XR_001087.1 |
| 972.7 | 587.6 | 574.4 | 413.6 NM_015459.3 |
| 94.9 | 82.5 | 83.6 | 85 NM_015398.1 |
| 89.8 | 90.9 | 81.8 | 82.8 NM_015398.1 |
| 1006.5 | 1329.6 | 1826.8 | 1635.5 NM_032121.3 |
| 91.2 | 81.3 | 81.9 | 87.3 NM_182595.2 |
| 242 | 163.3 | 163 | 167.9 NM_032120.1 |
| 99.7 | 97.9 | 104.2 | 95.7 NM_015393.2 |
| 78.2 | 90.8 | 71.5 | 80.9 NM_030923.2 |
| 803.1 | 785.7 | 699.1 | 523.3 NM_206914.1 |
| 96.2 | 107.1 | 100.2 | 114 NM_206914.1 |
| 90.5 | 87.4 | 79.9 | 87.4 NM_015430.2 |
| 78 | 70.2 | 80.6 | 75.7 NM_001001991.1 |
| 133.9 | 178.3 | 199 | 197 NR_002186.1 |

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| 93.1 | 102.1 | 96.9 | 96 NM_015531.2 |
| 84 | 79.8 | 74.5 | 82.8 NM_001008226.1 |
| 85.6 | 89.6 | 92.8 | 99.1 NM_153605.2 |
| 79.2 | 78.3 | 87.4 | 87.5 NM_014988.1 |
| 87.7 | 86.9 | 86.3 | 84.4 NM_033107.1 |
| 77.1 | 80.3 | 74.6 | 81.5 NM_001017992.1 |
| 127.4 | 124.4 | 107.1 | 101.2 NM_001048249.1 |
| 99.2 | 95.4 | 90.1 | 102.5 NM_207495.2 |
| 120.7 | 106.9 | 115 | 106.1 NM_001024596.1 |
| 129.3 | 149.4 | 139.8 | 141.2 NM_001012987.1 |
| 323.9 | 247.8 | 247.6 | 224.7 NM_194282.1 |
| 104.9 | 112.2 | 118 | 99.6 NM_173463.2 |
| 116.3 | 127.3 | 123.1 | 95.6 NM_138368.2 |
| 105.3 | 83.6 | 81.4 | 95.3 NM_031297.2 |
| 198.4 | 240 | 275.5 | 224.8 NM_031449.3 |
| 460.8 | 382.4 | 332.4 | 326.8 NM_018410.2 |
| 258.3 | 399.5 | 580.1 | 389.3 NM_152411.1 |
| 103.6 | 97.8 | 94.9 | 89.1 NM_001010903.2 |
| 86.5 | 79.2 | 85.4 | 93.3 NM_001037232.2 |
| 91.3 | 85.7 | 84.1 | 92.1 XM_945945.1 |
| 118.6 | 117.1 | 112.6 | 110.1 NM_152622.2 |
| 85.4 | 87.1 | 80.5 | 89.8 NM_012242.2 |
| 108.9 | 98.3 | 86.9 | 89.2 NM_014421.2 |
| 93.1 | 84.6 | 89 | 77.4 NM_015881.5 |
| 87.8 | 96.3 | 81.1 | 84.1 NM_013253.4 |
| 87.4 | 83.3 | 86.7 | 85.2 NM_013253.4 |
| 90.9 | 87.4 | 75.5 | 85.9 NM_013253.4 |
| 96.6 | 89.3 | 85.6 | 95 NM_014420.2 |
| 107.4 | 118.3 | 106.9 | 84 NM_014419.3 |
| 619.6 | 459.7 | 380.2 | 461.5 NM_001931.2 |
| 94.1 | 92.8 | 75.4 | 81.1 NM_024767.2 |
| 95.7 | 85.9 | 89.7 | 83.8 NM_006094.3 |
| 596.6 | 502.7 | 461.6 | 548.9 NM_000108.2 |
| 85.9 | 88.3 | 92.3 | 91.4 NM_005106.2 |
| 91.2 | 95.2 | 100 | 83.5 NM_007337.2 |
| 88.3 | 85.1 | 91.3 | 90.3 XR_001515.1 |
| 249.7 | 258 | 228 | 261.9 NR_002605.1 |
| 101.8 | 93.1 | 94.4 | 103.1 NR_002771.1 |
| 91.5 | 108.6 | 96.1 | 108.7 NM_198989.1 |
| 79.3 | 82.2 | 92.1 | 74.8 NM_004087.1 |
| 105.9 | 100.2 | 96.5 | 104.6 NM_001364.1 |
| 86 | 84.6 | 88.6 | 96.3 NM_021120.1 |
| 83.2 | 75.9 | 79 | 82.5 NM_021120.1 |
| 89.1 | 89.5 | 74.7 | 86.5 NM_021120.1 |
| 165.4 | 123.4 | 117.4 | 143.5 NM_001365.1 |
| 89.4 | 92.6 | 78.9 | 82.9 NM_004747.2 |
| 672.1 | 317.1 | 250.8 | 257.8 NM_014750.3 |
| 93.8 | 85.9 | 86.3 | 88.8 NM_004746.2 |
| 81.9 | 78.8 | 82.4 | 83.2 NM_001003809.1 |
| 113.8 | 125.1 | 114.8 | 107.3 NM_004745.3 |

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| 83.1 | 88.6 | 75.3 | 68 XM_940825.1 |
| 87.1 | 88.1 | 86.9 | 88.7 NM_183006.1 |
| 80.9 | 76.6 | 76.7 | 89.8 NM_014902.2 |
| 168.8 | 190.1 | 157.9 | 155.6 NM_014902.2 |
| 84.8 | 85.3 | 79.4 | 96.6 NM_003836.4 |
| 98.4 | 85.2 | 92.1 | 90.6 NM_003836.4 |
| 186.7 | 331 | 349.1 | 204.4 NM_005618.2 |
| 89.7 | 75.2 | 84.9 | 86.1 NM_016941.2 |
| 206.2 | 89.4 | 93.5 | 92 NM_016941.2 |
| 88.3 | 92.2 | 86.5 | 90.6 NM_019074.2 |
| 376.7 | 313.4 | 350.9 | 286.1 NM_198489.1 |
| 413.4 | 395.9 | 305.4 | 292.5 NM_001933.3 |
| 126.5 | 104.5 | 108.1 | 111.9 NM_001038493.1 |
| 450 | 354.4 | 307.7 | 260.1 NM_178120.3 |
| 84.8 | 76.2 | 77.3 | 85.5 NM_004405.2 |
| 139.3 | 107.3 | 88.8 | 96 NM_005220.2 |
| 110.5 | 104.3 | 89.6 | 110.5 NM_001934.2 |
| 83 | 92.9 | 89.9 | 99.9 NM_138281.1 |
| 87.8 | 104.1 | 93.8 | 92.7 NM_001934.2 |
| 91.5 | 82.6 | 85.2 | 84.9 NM_005221.4 |
| 89.1 | 88.8 | 80 | 88.3 NM_005222.2 |
| 454.8 | 515.6 | 534 | 313.7 NM_019100.3 |
| 229.3 | 236.6 | 243.6 | 163.8 NM_001034024.1 |
| 97.1 | 83.5 | 82.1 | 81.4 NM_017579.1 |
| 95.6 | 88.2 | 87.5 | 83.8 NM_172225.1 |
| 1275.9 | 1973.2 | 2970 | 1699.9 NM_007068.2 |
| 88.8 | 103.7 | 102 | 88.6 NM_004006.1 |
| 83.8 | 88.7 | 75.5 | 78 NM_004012.1 |
| 148 | 153.3 | 173.4 | 127.7 NM_004010.1 |
| 94.4 | 87.2 | 81.5 | 89.3 NM_004014.1 |
| 92.5 | 84.7 | 77.8 | 93.4 NM_004019.1 |
| 80.3 | 87.2 | 81.3 | 92.2 NM_004009.1 |
| 116.5 | 116.6 | 102.8 | 115.2 NM_004019.1 |
| 81 | 77.3 | 81.3 | 75.6 NM_000109.2 |
| 91.7 | 93.4 | 92.9 | 93.5 NM_013391.2 |
| 133.6 | 150.5 | 122.1 | 120.9 NM_015286.4 |
| 83.7 | 89.3 | 82.9 | 90 NM_145728.1 |
| 82.3 | 83 | 70.9 | 86.4 NM_004407.2 |
| 103.5 | 91.3 | 95.5 | 97.1 NM_001081563.1 |
| 87.2 | 85 | 87.3 | 91.7 NM_004409.2 |
| 109.4 | 92.9 | 91 | 87 NM_021951.2 |
| 152.3 | 154.4 | 175.4 | 141.4 NM_181872.1 |
| 91.1 | 94.1 | 92.1 | 85.2 NM_006557.3 |
| 106.6 | 135.7 | 139.4 | 133.9 NM_021240.2 |
| 92 | 76.2 | 80.3 | 84.7 NM_022160.1 |
| 93.8 | 91.8 | 88.4 | 81 NM_033067.1 |
| 83 | 80.6 | 85.2 | 80.8 NM_001040283.1 |
| 311.3 | 425.1 | 469.5 | 348.8 NM_021145.2 |
| 108.9 | 98.2 | 93.9 | 78 NM_004943.1 |
| 93.6 | 94.5 | 93.3 | 96.6 NM_005509.3 |

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| 130.6 | 227.3 | 229 | 218 NM_015263.1 |
| 211.7 | 165.7 | 153.8 | 139.2 XM_938629.1 |
| 200.9 | 181.2 | 155.7 | 149.5 NM_001080449.1 |
| 127.3 | 163.1 | 179.9 | 113.6 NM_015512.3 |
| 99.9 | 95.9 | 91.2 | 99.3 NM_207437.1 |
| 87.2 | 83.1 | 82.7 | 84.4 NM_003777.2 |
| 87.1 | 96.4 | 90.6 | 92.5 NM_003727.1 |
| 86.2 | 85.8 | 92.5 | 83.4 NM_017539.1 |
| 92.5 | 96.1 | 89.9 | 87.8 NM_001369.1 |
| 101.6 | 99 | 105.1 | 98 NM_018897.1 |
| 95.6 | 90.2 | 82.9 | 90.1 NM_001371.1 |
| 93.7 | 89.8 | 93 | 91 NM_004662.1 |
| 96.6 | 81.3 | 82 | 73.4 NM_001372.2 |
| 95.8 | 89.5 | 83.6 | 85 NM_001372.2 |
| 78 | 81.3 | 71.4 | 81.8 NM_173628.1 |
| 81 | 92.7 | 92.8 | 88.9 NM_012144.2 |
| 144.8 | 121.3 | 137 | 117.6 NM_023036.1 |
| 8909.8 | 6935.5 | 5308.5 | 4298.8 NM_001539.2 |
| 2031.2 | 1370.9 | 1084.7 | 1119.1 NM_005880.2 |
| 2654.1 | 1246 | 1164.4 | 689.8 NM_005147.3 |
| 1264.3 | 741.4 | 643.2 | 460 NM_018602.2 |
| 99.3 | 103.3 | 102.2 | 97.8 NM_194283.3 |
| 92.4 | 88.2 | 92.4 | 85.2 NM_001012339.2 |
| 991.1 | 497.8 | 392.6 | 442.9 NM_006145.1 |
| 5989.7 | 5722.5 | 4469.9 | 3632.8 NM_016306.4 |
| 97.6 | 106.4 | 115.6 | 100.6 NM_017626.3 |
| 181.4 | 132.5 | 136 | 109.4 NM_001002762.1 |
| 157.6 | 141.4 | 134.2 | 110.7 XM_944538.1 |
| 104.1 | 91.3 | 86.8 | 90.1 NM_153614.2 |
| 100.3 | 92.1 | 98.3 | 94.2 NM_001031723.1 |
| 311.4 | 291 | 329.1 | 265.5 NM_001031723.1 |
| 89.5 | 87 | 83.8 | 96.5 NM_024920.3 |
| 99 | 102.4 | 99.9 | 100.7 NM_006736.5 |
| 316 | 394.2 | 330.6 | 247.1 NM_006736.5 |
| 91.9 | 95.8 | 103.4 | 100.6 NM_007034.3 |
| 94.5 | 96.3 | 97.8 | 95.6 NM_012266.3 |
| 95.1 | 96.1 | 85.6 | 93.4 NM_012266.3 |
| 1035.8 | 799.1 | 733.5 | 498 NM_005494.2 |
| 1465.4 | 2022.1 | 1375 | 1487.1 NM_058246.3 |
| 102.7 | 97.9 | 93 | 96 NM_145174.1 |
| 98.7 | 98.5 | 98.4 | 97.9 NM_153330.2 |
| 372.2 | 328.4 | 316.2 | 285.3 NM_012328.1 |
| 130.5 | 125.9 | 114.2 | 139.6 NM_022365.2 |
| 523.3 | 450.5 | 399.9 | 403.8 NM_018981.1 |
| 149.9 | 114.4 | 104 | 112.4 NM_018198.1 |
| 91.4 | 94.5 | 76.9 | 94.1 NM_021800.2 |
| 85.6 | 77.5 | 76.5 | 78.3 NM_201262.1 |
| 84.5 | 75.2 | 79.6 | 72.3 NM_201262.1 |
| 219.9 | 284.2 | 229 | 169.8 NM_015268.2 |
| 282.3 | 318.5 | 257.1 | 271.1 NM_032364.4 |

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|--------|--------|--------|--------|----------------|
| 452.7 | 375.7 | 385.6 | 317.7 | NM_013238.2 |
| 99 | 98 | 89.2 | 103.7 | NM_015291.1 |
| 236.2 | 223.6 | 220.2 | 160.8 | NM_018163.1 |
| 125.1 | 117 | 118.1 | 102.4 | NM_152686.2 |
| 190.5 | 148.3 | 160.3 | 151.6 | NM_145261.2 |
| 178.8 | 155.9 | 140 | 125.8 | NM_006260.2 |
| 98 | 116.8 | 106.1 | 115.5 | NM_005528.1 |
| 273.6 | 216.1 | 210.6 | 168.2 | NM_025219.1 |
| 106.3 | 95.2 | 99.6 | 104.5 | NM_033105.3 |
| 97 | 93.6 | 86.9 | 81.7 | NM_173650.1 |
| 88.9 | 89.6 | 83 | 80.8 | NM_014787.2 |
| 618.9 | 618.3 | 474.4 | 489.3 | NM_003315.1 |
| 6426.8 | 7070.4 | 6405 | 4309.2 | NM_014280.1 |
| 1972.5 | 1098.5 | 990.7 | 707.5 | NM_015190.3 |
| 92.8 | 88.9 | 83.9 | 92.5 | NM_031427.1 |
| 471.2 | 509.7 | 440.2 | 334.9 | NM_005740.2 |
| 97.8 | 94.4 | 98.5 | 100.7 | NM_003462.3 |
| 584.4 | 582.6 | 409.3 | 424.1 | NM_015535.1 |
| 105.6 | 96.7 | 95 | 95.5 | NM_005223.3 |
| 331.8 | 353.6 | 305.8 | 367.4 | NM_001009934.1 |
| 89.7 | 94.3 | 87.4 | 88.6 | NM_006730.2 |
| 156.5 | 146.8 | 134.7 | 123.6 | NM_006730.2 |
| 95.2 | 90.6 | 96.1 | 99.6 | NM_001009932.1 |
| 131.1 | 118.5 | 106.5 | 113.5 | NM_001374.2 |
| 98.7 | 94.6 | 80.8 | 96.2 | NM_004944.2 |
| 1241.5 | 1566.7 | 1103.6 | 706.4 | NM_001375.2 |
| 88.5 | 93.1 | 80.7 | 91.3 | NM_058248.1 |
| 91.7 | 93.6 | 87.2 | 81.6 | NM_021233.2 |
| 101.5 | 107.4 | 95.7 | 108.5 | NM_021233.2 |
| 761.8 | 333.8 | 368.2 | 291 | NM_177953.1 |
| 395.3 | 275 | 269.8 | 253.8 | NM_177953.1 |
| 99.2 | 107 | 92.8 | 103.7 | NM_194249.1 |
| 88.6 | 79.4 | 81.6 | 89.6 | NM_139072.2 |
| 102 | 114.7 | 115.5 | 121.6 | NM_144666.1 |
| 89.2 | 90.8 | 84.8 | 89.4 | NM_178504.3 |
| 86.6 | 78.1 | 79.7 | 90.1 | NM_020877.2 |
| 130.6 | 113.6 | 105.8 | 113.4 | NM_004408.2 |
| 768.5 | 845.1 | 711.1 | 759.3 | NM_012062.2 |
| 215 | 201.6 | 154.3 | 182.1 | NM_005690.2 |
| 149.2 | 158.7 | 158.3 | 139.5 | NM_004945.2 |
| 239.1 | 269.6 | 237.1 | 230.6 | NM_004945.2 |
| 98.1 | 92.7 | 92.6 | 92.4 | NM_015569.2 |
| 107.8 | 97 | 96 | 93 | NM_015221.1 |
| 4714.1 | 4510.8 | 4391.6 | 2926.2 | NM_001379.1 |
| 106 | 88.6 | 88.1 | 96.3 | NM_176085.1 |
| 94.1 | 84.5 | 84.5 | 87.2 | NM_175630.1 |
| 104.4 | 85.8 | 90.4 | 86.7 | NM_022552.3 |
| 93.9 | 83.1 | 83.5 | 92.7 | NM_153759.2 |
| 107.3 | 113.1 | 101.7 | 91.5 | NM_175850.1 |
| 131.4 | 118.7 | 120.3 | 123.4 | NM_006892.3 |

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| 97.8 | 94.5 | 94.9 | 98 NM_006892.3 |
| 85.9 | 72 | 86.8 | 87.7 NM_175867.1 |
| 94.7 | 105.2 | 109.5 | 96.3 NM_013369.2 |
| 122.4 | 122.1 | 107.6 | 105.2 NM_012100.1 |
| 91.4 | 86 | 81 | 86.5 NM_001017520.1 |
| 95.6 | 96 | 80.3 | 89.2 NM_001017520.1 |
| 768.1 | 626.2 | 785.5 | 532.6 NM_052951.2 |
| 90.7 | 80.2 | 80.8 | 90.1 NM_014597.3 |
| 211.2 | 366.9 | 239.1 | 215.7 NM_014890.1 |
| 203 | 386.1 | 259.4 | 223.6 NM_182909.1 |
| 87.5 | 89.5 | 87.8 | 90.3 NM_182909.1 |
| 95.7 | 79.6 | 78.3 | 89.1 NM_003586.2 |
| 96.2 | 95.4 | 91.9 | 93.7 NM_003585.1 |
| 90.1 | 93.2 | 84 | 92.5 NM_001380.2 |
| 1022.6 | 1262.5 | 916.7 | 843.3 NM_014689.1 |
| 466.4 | 585 | 570 | 486.7 NM_144658.2 |
| 2963.5 | 5035.4 | 5428 | 2480.2 NM_004946.1 |
| 91.3 | 84.4 | 78.5 | 81.6 NM_004947.3 |
| 87.8 | 83.9 | 77.8 | 78.4 NM_014705.2 |
| 144.7 | 136.1 | 103.5 | 109.7 NM_024940.4 |
| 159.4 | 156 | 137 | 139.4 NM_020812.1 |
| 84 | 76.5 | 81.5 | 81.8 NM_033407.2 |
| 1284.9 | 1235.1 | 1034.4 | 1520.9 NM_203447.1 |
| 85.6 | 95.9 | 93.6 | 93.3 NM_015296.1 |
| 95.1 | 89.5 | 88.9 | 85.3 NM_001381.2 |
| 107.7 | 97.4 | 99 | 87.7 NM_003974.2 |
| 165 | 118.5 | 109.5 | 111.6 NM_201349.1 |
| 99.1 | 120.3 | 130.6 | 114.5 NM_024872.1 |
| 117.7 | 94.6 | 97.5 | 104 NM_018110.2 |
| 83.5 | 80.4 | 78.3 | 82.9 NM_018431.3 |
| 107.5 | 104 | 93.2 | 106 NM_152721.2 |
| 285 | 195.7 | 205.3 | 137 NM_020438.3 |
| 371.4 | 389.1 | 373.9 | 309.1 NM_005510.3 |
| 574.5 | 578.4 | 430.7 | 499.2 NM_145794.1 |
| 180.2 | 150.4 | 131.8 | 139.2 NM_017613.2 |
| 144 | 146.6 | 162.7 | 155.1 NM_015018.2 |
| 376.9 | 578.4 | 698.1 | 379.8 NM_005128.2 |
| 98.9 | 99.7 | 98.7 | 90.9 NM_032482.1 |
| 86.3 | 91.4 | 86.3 | 83.5 NM_001004441.1 |
| 238.8 | 141.9 | 140.2 | 132.1 NM_001382.2 |
| 796.4 | 465.7 | 454.4 | 300.4 NM_001382.2 |
| 89.6 | 97.2 | 86.9 | 100 NM_080870.2 |
| 91.3 | 93 | 96.8 | 89.9 NM_004413.1 |
| 104.3 | 109.5 | 120 | 109.3 NM_022355.1 |
| 87.7 | 93.7 | 90.6 | 84.7 NM_022357.1 |
| 111.2 | 123.3 | 96.3 | 97.5 NM_004647.1 |
| 757.2 | 471.8 | 519.6 | 303.5 NM_006268.3 |
| 98 | 112.7 | 97.8 | 106.7 NM_012074.1 |
| 115.9 | 96.1 | 89.9 | 95.2 NM_001383.2 |
| 151.8 | 124.8 | 121.6 | 110.5 NM_001384.3 |

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| 112.1 | 114.6 | 103.3 | 95.2 NM_001384.4 |
| 852.8 | 658.2 | 523.2 | 334.9 NM_001384.4 |
| 426.7 | 283.1 | 265.6 | 248.8 NM_001047434.1 |
| 147.5 | 141.8 | 121.3 | 128 NM_001047434.1 |
| 839.2 | 443.9 | 375.2 | 309.1 NM_015958.1 |
| 614.9 | 270.4 | 227.7 | 188.5 NM_001077395.1 |
| 1960 | 1461.6 | 1128.1 | 1251.6 NM_003859.1 |
| 325.6 | 192.3 | 166.2 | 173.7 NM_003863.2 |
| 1040.6 | 781.5 | 745.7 | 544.9 NM_018973.3 |
| 1838.7 | 1181.8 | 1414.1 | 959.8 NM_153741.1 |
| 96.7 | 100 | 93.6 | 94 NM_001004360.1 |
| 93.2 | 90.3 | 81.8 | 87 NM_020868.2 |
| 189 | 157.2 | 133.4 | 135.9 NM_130443.1 |
| 145.2 | 164.5 | 156.7 | 129.6 NM_005700.2 |
| 335.8 | 339.9 | 277.9 | 239.6 NM_005700.3 |
| 101.8 | 96.7 | 95.2 | 94 NM_001935.3 |
| 79.9 | 82.3 | 72.2 | 79.4 NM_130797.1 |
| 85.3 | 87 | 81.4 | 85 NM_001936.2 |
| 647.8 | 592.1 | 531.4 | 447.1 NM_013379.2 |
| 879.5 | 751.4 | 859.1 | 285.5 NM_013379.2 |
| 154.7 | 171.7 | 153.2 | 167.2 NM_130434.3 |
| 313 | 328.7 | 305.4 | 339.1 NM_130434.2 |
| 90.2 | 85 | 84 | 81.8 NM_197960.2 |
| 412.7 | 392 | 330.7 | 319.3 NM_139159.3 |
| 95.2 | 81.8 | 87.6 | 90.9 NM_138815.2 |
| 94.4 | 90.6 | 80.4 | 92.7 NM_199286.2 |
| 88.4 | 84 | 79.4 | 95 NM_018189.2 |
| 92.2 | 87.7 | 84.5 | 94.5 NM_001025290.1 |
| 88.7 | 79 | 81 | 91.2 NM_001012728.1 |
| 93.6 | 83.2 | 86.4 | 90.7 NR_002221.1 |
| 88.9 | 77.6 | 85.4 | 78.1 NM_001937.3 |
| 91.9 | 91.1 | 90.4 | 88.1 NM_173812.3 |
| 122.8 | 117 | 104.9 | 98.4 NM_207325.1 |
| 236.2 | 188.1 | 190.2 | 168 NM_181787.1 |
| 161.4 | 203.9 | 157.9 | 197.2 NM_000110.2 |
| 86.9 | 83.7 | 80.2 | 82 NM_001385.1 |
| 4375.3 | 2946.2 | 2714.1 | 2242.1 NM_001386.4 |
| 103.3 | 96.9 | 88.1 | 93.5 NM_001387.2 |
| 105.8 | 89 | 78.5 | 91.8 NM_006426.1 |
| 81.3 | 82.7 | 90.2 | 78.7 NM_020134.2 |
| 98.9 | 95.6 | 85.5 | 94.3 NM_133637.1 |
| 445.2 | 428.2 | 358.4 | 290.9 NM_001938.2 |
| 1768.4 | 1716 | 1291 | 1516.4 NM_006442.2 |
| 290.8 | 200.4 | 191.3 | 189.7 NM_152945.1 |
| 92.3 | 77.3 | 83 | 80.2 NM_000794.2 |
| 94.3 | 85.1 | 83.9 | 89.2 NM_015722.2 |
| 84.5 | 91 | 79.4 | 86.6 NM_016574.2 |
| 83.7 | 88 | 75.2 | 84.3 NM_000795.2 |
| 86.2 | 85.8 | 77.4 | 94 NM_000795.2 |
| 100.5 | 92.8 | 91.3 | 92.4 NM_033663.2 |

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| 101.8 | 95.8 | 94.6 | 101.9 NM_000796.3 |
| 84.7 | 71.3 | 73 | 84.2 NM_000796.3 |
| 108.3 | 135 | 141.5 | 129.2 NM_000797.2 |
| 99.7 | 91.2 | 88.3 | 103.2 NM_000798.3 |
| 157.4 | 196 | 154.3 | 181.2 NM_016025.2 |
| 2014.9 | 1507.8 | 1082.4 | 990.4 NM_004147.3 |
| 184.5 | 180.5 | 135.1 | 137.9 NM_001388.3 |
| 79.4 | 71.7 | 80.1 | 73.1 NM_001939.1 |
| 100 | 95.6 | 96.6 | 86.1 NM_004948.2 |
| 152.1 | 237.8 | 228 | 217.3 NM_004949.2 |
| 105.4 | 107.4 | 112.3 | 105.5 NM_024422.2 |
| 84.2 | 82.7 | 72.7 | 84.6 NM_001941.2 |
| 130.4 | 151 | 128.5 | 118.3 NM_001389.3 |
| 103 | 100.5 | 94.2 | 88.1 NM_206887.1 |
| 86 | 81 | 88.6 | 90.2 NM_206887.1 |
| 88.1 | 87 | 79.1 | 81.6 NM_020693.2 |
| 82.7 | 80.2 | 87.3 | 87.6 NM_203418.1 |
| 87.4 | 73.8 | 77 | 79.1 NM_004414.5 |
| 403.8 | 339.2 | 245.9 | 280.9 NM_203417.1 |
| 109.6 | 111.4 | 102.8 | 102.9 NM_148676.1 |
| 102.5 | 106.1 | 95.7 | 92.8 NM_005822.2 |
| 126.2 | 102.8 | 97.8 | 91.2 NM_013441.2 |
| 1157.9 | 893.7 | 742 | 863.6 NM_203433.1 |
| 885.7 | 644 | 556.7 | 599.6 NM_003720.2 |
| 441.9 | 547.3 | 521.5 | 417.6 NM_006052.1 |
| 90.7 | 81.7 | 81.3 | 74.3 NM_005867.2 |
| 470.3 | 342.9 | 311.1 | 277.3 NM_153682.1 |
| 1531.6 | 1161.3 | 1010.4 | 941.7 NM_153681.1 |
| 100.3 | 95.9 | 91.1 | 93.1 NM_153681.1 |
| 118.8 | 106.7 | 98.5 | 92.7 NM_018962.1 |
| 101.2 | 95.6 | 97.3 | 105.4 NM_032589.2 |
| 93.1 | 109.5 | 101.5 | 91.8 NM_032589.2 |
| 88.8 | 84.6 | 91 | 90.3 NM_203429.1 |
| 86.2 | 84.7 | 88.6 | 87.4 NM_148675.2 |
| 104.3 | 106.9 | 97.9 | 98.6 NM_032160.2 |
| 103.7 | 89.2 | 92.2 | 88.2 NM_001942.1 |
| 94.5 | 152.7 | 155.9 | 139.5 NM_001943.1 |
| 92.7 | 85.6 | 86.5 | 83.7 NM_001944.1 |
| 98.1 | 92.8 | 83.5 | 95.9 NM_177986.2 |
| 89.8 | 91.7 | 85.9 | 84.7 NM_004415.2 |
| 87.1 | 78.4 | 82.7 | 82.2 NM_004950.3 |
| 97.5 | 96.3 | 88.1 | 98.1 NM_014208.1 |
| 100.6 | 104.7 | 99.6 | 83.4 NM_183380.1 |
| 84.6 | 74.2 | 80.6 | 87.7 NM_020388.2 |
| 95.1 | 102.8 | 95.5 | 92.5 NM_001723.3 |
| 105.6 | 94.2 | 91.8 | 108.7 NM_001723.3 |
| 93.5 | 98.2 | 110.1 | 101.7 NM_183380.1 |
| 401 | 303.5 | 273.9 | 326.7 NM_006870.3 |
| 107.3 | 101.1 | 104.5 | 87.8 NM_001011546.1 |
| 444.1 | 394.1 | 360.9 | 395.1 NM_006870.3 |

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| 92.1 | 94.8 | 99.7 | 86.1 NM_018000.1 |
| 363.6 | 278.6 | 263.5 | 267 NM_016448.1 |
| 186.6 | 137.4 | 129.8 | 118.2 NM_001392.3 |
| 704.5 | 306.2 | 232.1 | 199.5 NM_001392.3 |
| 191.2 | 135.3 | 118.3 | 113.1 NM_032981.2 |
| 109.7 | 107.4 | 90 | 110.2 NM_033148.2 |
| 106.4 | 112.5 | 103.6 | 107.6 NM_183040.1 |
| 152.6 | 150.6 | 139 | 140.6 NM_183041.1 |
| 106.9 | 94.5 | 101.6 | 98.1 NM_183041.1 |
| 95.3 | 83.7 | 85 | 83.5 NM_020234.3 |
| 410.6 | 628.2 | 752.2 | 657.6 NM_173666.1 |
| 96.2 | 88.2 | 87.3 | 84.5 NM_004416.2 |
| 572.3 | 595.5 | 690.4 | 278.9 NM_020892.1 |
| 86.5 | 85.3 | 80.6 | 86.8 NM_178502.2 |
| 108.3 | 119.8 | 99.1 | 107.1 NM_138287.2 |
| 91.2 | 79.9 | 91.1 | 86.8 NM_012145.2 |
| 93.4 | 92.4 | 87 | 95.3 NM_201402.1 |
| 172.2 | 178.9 | 158.8 | 155.8 NM_015343.3 |
| 85.4 | 82.4 | 84 | 89.8 NM_017434.3 |
| 108.4 | 98.2 | 98.1 | 93.9 NM_017434.3 |
| 83.5 | 101.9 | 83.6 | 83.9 NM_017434.3 |
| 92.2 | 83.8 | 70.4 | 79.1 NM_014080.3 |
| 99.5 | 90.2 | 79.3 | 98.1 NM_001003892.1 |
| 194.2 | 266.4 | 192.4 | 199.2 NM_022156.3 |
| 233.4 | 152.6 | 177.3 | 117.3 NM_017803.3 |
| 870.1 | 481.8 | 495.1 | 337.9 NM_020175.1 |
| 277.4 | 331.6 | 301.3 | 228.9 NM_181581.1 |
| 165.4 | 184.5 | 159.6 | 121.1 NM_004417.2 |
| 153.4 | 200.2 | 141.4 | 147.6 NM_007207.3 |
| 86.2 | 86.8 | 71.8 | 83.1 NM_144728.1 |
| 285.8 | 423 | 290.1 | 400.7 NM_144729.1 |
| 117.4 | 101.7 | 93.1 | 113.1 NM_003584.1 |
| 1678.4 | 1040.7 | 931 | 820.1 NM_007240.1 |
| 92.5 | 91.2 | 82.8 | 86.9 NM_001007275.1 |
| 89.6 | 85.8 | 86.3 | 90.2 NM_001007271.1 |
| 104.2 | 97.8 | 92.7 | 94.2 NM_001007271.1 |
| 105.4 | 89.4 | 95.8 | 97.3 NM_016364.3 |
| 342.3 | 240.4 | 185.1 | 180.3 NM_007026.1 |
| 97.4 | 96 | 86.5 | 90.4 NM_080611.3 |
| 85.4 | 88.6 | 88.3 | 81.4 NM_001012644.1 |
| 91.7 | 74.8 | 80 | 91.5 NM_080611.3 |
| 117.4 | 102.3 | 89.1 | 99.1 NM_030640.1 |
| 210.5 | 275.1 | 243.8 | 200.3 NM_152511.3 |
| 2549.9 | 2946 | 3463.1 | 3824.3 NM_080876.2 |
| 121.7 | 112.6 | 97.6 | 99.7 NM_004418.2 |
| 95.8 | 87.9 | 81.2 | 92.5 NM_022076.2 |
| 103.8 | 110.9 | 109.4 | 107.6 NM_020185.3 |
| 187.5 | 222.2 | 254.7 | 197.9 NM_020185.3 |
| 2804.9 | 1703.5 | 1664.7 | 1028.6 NM_017823.3 |
| 125.5 | 133 | 113.1 | 109.2 NM_024025.1 |

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| 82.7 | 83.2 | 76.2 | 88.3 XM_935434.1 |
| 98 | 97.3 | 103 | 98.1 NM_001080426.1 |
| 1580.5 | 1746.7 | 1792.1 | 1278.5 NM_004090.2 |
| 88.3 | 93 | 81.6 | 88.6 NM_057158.2 |
| 103.2 | 110.4 | 105.4 | 107.5 NM_001394.5 |
| 203.7 | 151.9 | 127.5 | 116.6 NM_004419.3 |
| 159.3 | 125.7 | 142.1 | 125 NR_002834.1 |
| 122.2 | 102.7 | 107.7 | 146 NM_022652.2 |
| 105.2 | 107 | 98.2 | 95.8 NM_001946.2 |
| 101.6 | 115.9 | 105.6 | 98 NM_001947.1 |
| 102.5 | 103.1 | 109.5 | 109.4 NM_004420.1 |
| 106.2 | 93.7 | 82.7 | 93.7 NM_001395.1 |
| 138.3 | 172.8 | 184.6 | 125.8 NM_001025248.1 |
| 387.2 | 289.5 | 291.2 | 242.2 NM_001025248.1 |
| 657.6 | 520.2 | 504.9 | 356.9 NM_001025249.1 |
| 99.8 | 100.6 | 93.4 | 94.5 NM_012146.1 |
| 94.4 | 91.9 | 98.4 | 91 NM_012147.2 |
| 105.6 | 97 | 95.2 | 101.5 NM_012148.2 |
| 77.8 | 80.7 | 90.2 | 84.9 NM_033178.2 |
| 94.2 | 80.2 | 82.4 | 83.7 NM_001023569.1 |
| 80.8 | 81.3 | 75.7 | 75.7 NM_012149.2 |
| 84.5 | 79.1 | 82.3 | 89.7 NM_001012729.1 |
| 645 | 1001.5 | 1630.2 | 1201.6 NR_002220.1 |
| 118.7 | 134.4 | 122.2 | 149.4 NM_181870.1 |
| 192 | 201.6 | 205.7 | 174.3 NM_004422.2 |
| 388.2 | 360 | 274.1 | 328.9 NM_004423.3 |
| 1819.5 | 1064.8 | 922.6 | 665.1 NM_006014.2 |
| 100.1 | 85.8 | 91.2 | 99 NM_138812.1 |
| 903.2 | 830.8 | 662.1 | 606.1 NM_017653.2 |
| 403.1 | 637.8 | 480.8 | 489 NM_001376.2 |
| 91.9 | 80.2 | 81.5 | 85.4 NM_004411.1 |
| 1009.2 | 1218.7 | 761.5 | 842.1 NM_001378.1 |
| 121.7 | 117.4 | 115.2 | 114.1 NM_016141.1 |
| 1586.3 | 1506.1 | 1683 | 1173.7 NM_006141.2 |
| 125.2 | 105.5 | 106.4 | 114.5 NM_001080463.1 |
| 87.4 | 89.2 | 75.8 | 80.2 NM_016008.2 |
| 373.5 | 276.7 | 231.6 | 214.6 NM_015522.2 |
| 125.5 | 111.3 | 104.6 | 107.5 NM_001012665.1 |
| 5874.4 | 3046.2 | 2668.5 | 2198 NM_001037494.1 |
| 325.3 | 384.5 | 344.4 | 211.7 NM_080677.1 |
| 1658.2 | 913.2 | 816.6 | 626.1 NM_014183.2 |
| 98.2 | 87.9 | 88.8 | 85.3 NM_130897.1 |
| 1010.1 | 902.9 | 690.2 | 728.5 NM_006519.1 |
| 96.8 | 96.5 | 93.5 | 92.7 NM_006520.1 |
| 360 | 460.2 | 403.2 | 381.2 NM_130437.2 |
| 85.4 | 87.5 | 85.1 | 94.9 NM_101395.1 |
| 477.8 | 573.5 | 395.6 | 521.2 NM_130438.1 |
| 82.9 | 82.1 | 85.9 | 84.3 NM_130436.1 |
| 96.9 | 93 | 80.8 | 90.5 NM_006484.1 |
| 98.6 | 103.3 | 103.8 | 103.1 NM_004714.1 |

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| 451.1 | 471.4 | 532.8 | 374 NM_003583.2 |
| 105 | 105.8 | 99.9 | 105.1 NM_006482.1 |
| 99.7 | 100.8 | 84.6 | 101.1 NM_003582.2 |
| 91.9 | 91.8 | 82.8 | 83.5 NM_003582.2 |
| 87.2 | 89.9 | 84.4 | 93.6 NM_001004023.1 |
| 172.2 | 160.6 | 160.7 | 129.8 NM_003845.1 |
| 93.3 | 93.3 | 90.7 | 100.8 NM_003494.2 |
| 1773.7 | 377.8 | 395.5 | 340.1 NM_001007533.3 |
| 94.4 | 99.2 | 87.3 | 95 NM_130810.2 |
| 93.8 | 81.3 | 92.7 | 91.2 NM_001033560.1 |
| 103.2 | 103.5 | 99.6 | 89.1 NM_198968.1 |
| 90.9 | 93.8 | 90 | 93.2 NM_014934.3 |
| 102.4 | 101.2 | 98.1 | 95.8 NM_173543.1 |
| 91.3 | 88.9 | 98.3 | 99.4 NM_014648.2 |
| 85.9 | 89.8 | 82.9 | 92.3 NM_005225.1 |
| 860 | 977.7 | 1064.7 | 513.9 NM_004091.2 |
| 908.5 | 903.8 | 763.4 | 623.6 NM_001949.2 |
| 1138.2 | 759.5 | 647.6 | 394.8 NM_001950.3 |
| 274.9 | 182 | 152.8 | 168.3 NM_001951.2 |
| 95 | 102.6 | 104 | 80.7 NR_003095.1 |
| 618 | 440.7 | 420.6 | 302.8 NM_001952.3 |
| 294.9 | 268.8 | 245.6 | 207.2 NM_203394.1 |
| 107.6 | 107.5 | 96.7 | 108.7 NM_024680.2 |
| 1260.6 | 1024.4 | 1097.4 | 424.8 NM_004424.3 |
| 140.7 | 120 | 119.9 | 115.2 NM_033083.5 |
| 660.3 | 759 | 625.2 | 582.9 NM_018456.4 |
| 2288.2 | 1453.9 | 1332.3 | 1283.7 NM_004215.3 |
| 130.6 | 114.3 | 121.8 | 111.9 NM_198120.1 |
| 140.2 | 118.3 | 110.6 | 83.3 NM_004215.3 |
| 97.7 | 103.5 | 93.5 | 104.1 NM_024007.2 |
| 79.8 | 87.4 | 79.2 | 84 NM_022659.2 |
| 292.5 | 269.8 | 317.4 | 194.6 NM_001005463.1 |
| 238.6 | 295.7 | 244.7 | 221.5 NM_004951.3 |
| 109.6 | 110.9 | 105.3 | 121.9 NM_005755.2 |
| 3111.7 | 2945.6 | 2414.9 | 1675.2 NM_006824.1 |
| 883.5 | 551.6 | 652.1 | 427 NM_006579.1 |
| 82 | 91.3 | 73.5 | 83.7 NM_001017361.1 |
| 93.1 | 80.4 | 80.5 | 81.3 NM_019079.2 |
| 214.4 | 202.5 | 150 | 160.8 NM_007265.1 |
| 100.2 | 91.6 | 95.7 | 88.2 NM_001397.1 |
| 287.3 | 162.7 | 129.2 | 126.1 NM_014693.2 |
| 94.2 | 82 | 82.7 | 87.3 NM_014693.2 |
| 93.7 | 87.8 | 86.2 | 86.4 NM_014693.2 |
| 100 | 111.5 | 105.7 | 113.1 NM_004826.1 |
| 1867.7 | 2532.3 | 1833.3 | 1332.4 NM_001953.2 |
| 4859.6 | 3737.4 | 3579.2 | 2682.6 NM_001398.2 |
| 337.9 | 360.7 | 305.3 | 264.2 NM_018479.2 |
| 1561.2 | 1629 | 1938.2 | 1084.5 NM_018281.1 |
| 266.1 | 165.5 | 183 | 146.6 NM_024693.2 |
| 1093.8 | 670.6 | 691.2 | 409.7 NM_004092.2 |

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|---------|---------|---------|---------|----------------|
| 255.6 | 215.3 | 214.3 | 198.7 | NM_004425.2 |
| 152.8 | 118.9 | 104.7 | 99 | NM_022664.1 |
| 80.5 | 83.7 | 82 | 81 | NM_001393.2 |
| 256.7 | 231.5 | 214.7 | 240.4 | NM_030796.3 |
| 80.8 | 80.7 | 79.8 | 84.3 | NM_032411.1 |
| 144.3 | 113.8 | 121.6 | 121.7 | NM_016581.2 |
| 88.3 | 94.8 | 92.4 | 87.9 | NM_001005610.1 |
| 100.9 | 93.6 | 88.1 | 91.6 | NM_001005614.1 |
| 102 | 104.6 | 91.1 | 100.9 | NM_001005615.1 |
| 97.1 | 92.3 | 95 | 94.2 | NM_001005611.1 |
| 93.3 | 80.4 | 80.5 | 82.6 | NM_001005613.1 |
| 94.7 | 88.6 | 86.6 | 89.5 | NM_021783.2 |
| 101.2 | 76.6 | 82 | 94.6 | NM_022336.1 |
| 89 | 89 | 86.6 | 86.4 | NM_145861.1 |
| 109.4 | 117.8 | 120.7 | 104.9 | NM_145861.1 |
| 75.3 | 70.7 | 79.4 | 73 | NM_080738.2 |
| 363.7 | 374.8 | 375.9 | 317.1 | NM_015902.4 |
| 276.5 | 393.1 | 394.3 | 372.8 | NM_014674.1 |
| 361 | 331.6 | 304.4 | 291.6 | NM_025191.2 |
| 664.3 | 567.1 | 538.4 | 371.2 | NM_003792.2 |
| 9009.7 | 6110.7 | 5715.5 | 5585.3 | NM_003792.2 |
| 84.5 | 88.3 | 73.2 | 83.6 | NM_001400.2 |
| 453.3 | 286.8 | 253.2 | 231.3 | NM_001401.3 |
| 90.2 | 87.6 | 85.9 | 86.9 | NM_057159.2 |
| 231.6 | 114 | 113.6 | 123.2 | NM_005226.2 |
| 478.1 | 602.3 | 616.9 | 427.1 | NM_004720.4 |
| 105.7 | 93.5 | 89 | 91.2 | NM_004230.2 |
| 91.6 | 88.2 | 87.2 | 82.5 | NM_003775.1 |
| 98.1 | 90.8 | 84.3 | 94.8 | NM_012152.1 |
| 155.4 | 151.9 | 161.5 | 154.3 | NM_030760.3 |
| 75.1 | 78.5 | 79.8 | 88.2 | NM_005711.3 |
| 85.1 | 92.5 | 86.7 | 90.5 | NM_001955.2 |
| 98.7 | 93.4 | 80.4 | 93.2 | NM_001956.2 |
| 92.4 | 89.9 | 85.4 | 83.3 | NM_207033.1 |
| 77.8 | 88.5 | 82.8 | 85.8 | NM_207034.1 |
| 81.6 | 92.1 | 90.8 | 97.5 | NM_001957.1 |
| 118.2 | 186.7 | 206.7 | 178.4 | NM_003991.1 |
| 93 | 89.5 | 82.6 | 88.2 | NM_003991.1 |
| 88.5 | 82.4 | 79.5 | 93.1 | NM_000115.1 |
| 121.2 | 128.4 | 106.2 | 111.4 | NM_003566.2 |
| 99.2 | 90.5 | 99.7 | 99.2 | NM_152991.1 |
| 228.9 | 160.5 | 131.9 | 159.2 | NM_003797.2 |
| 135 | 102.2 | 91.2 | 99.1 | NM_152991.1 |
| 60250.9 | 58390.1 | 51447 | 55483.4 | NM_001402.4 |
| 55362.7 | 47315.7 | 39201.1 | 39841.5 | NM_001402.4 |
| 2381.1 | 368.9 | 351.6 | 236.2 | NM_001958.2 |
| 789.1 | 496.4 | 448.7 | 361 | NM_021121.2 |
| 14271.1 | 14409.7 | 11319 | 11404.3 | NM_001037663.1 |
| 777.2 | 658.5 | 634.8 | 432.3 | NM_001959.2 |
| 14907.2 | 15867.8 | 14793.3 | 10887 | NM_001959.2 |

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| 2741.7 | 1726.2 | 2111.9 | 1450.9 | NM_032378.2 |
| 85.4 | 81.2 | 80.4 | 76.7 | NM_032378.2 |
| 91.6 | 76.4 | 77 | 77.7 | NM_004280.2 |
| 14414.2 | 13568.8 | 12560.7 | 9882 | NM_001404.4 |
| 9902.1 | 8544.6 | 8140.3 | 4845.6 | NM_001961.2 |
| 564.6 | 560.8 | 584.6 | 318.8 | NM_013302.2 |
| 102.3 | 102.6 | 92.3 | 84.6 | NM_021937.3 |
| 94.6 | 90.1 | 86.3 | 86.6 | NM_024593.2 |
| 87.3 | 78.9 | 80.3 | 82.8 | NM_032328.1 |
| 95.9 | 87.6 | 94.6 | 95.3 | NM_173503.1 |
| 90.9 | 88.5 | 84.2 | 83.2 | NM_022351.2 |
| 142.8 | 108.1 | 120.1 | 99.9 | NM_019065.2 |
| 86.9 | 101.6 | 78.4 | 92.2 | NM_004105.2 |
| 92.6 | 93.7 | 84.1 | 91.5 | NM_004105.2 |
| 83.8 | 87 | 90.7 | 81.9 | NM_001039348.1 |
| 430.7 | 303.5 | 319.2 | 172.9 | NM_016938.1 |
| 902.6 | 657.2 | 619.3 | 708.3 | NM_152726.1 |
| 92.4 | 91.2 | 76.1 | 90.2 | NM_181723.1 |
| 96.4 | 93.5 | 90.4 | 91.9 | NM_144715.2 |
| 91.5 | 110.3 | 128.6 | 117.3 | NM_018100.1 |
| 92.3 | 89.1 | 90.1 | 91.4 | NM_025184.2 |
| 163.2 | 157.4 | 133.3 | 116.4 | NM_025202.2 |
| 2560.7 | 2089.1 | 1741.1 | 1026.4 | NM_024329.4 |
| 88.6 | 94.8 | 87.9 | 85.4 | NM_004428.2 |
| 95.3 | 93.1 | 85.5 | 92.7 | NM_004428.2 |
| 79.2 | 83.8 | 84.7 | 83.5 | NM_001405.2 |
| 80.4 | 85.1 | 82.5 | 89 | NM_004952.3 |
| 112.5 | 104.9 | 103.7 | 95.3 | NM_182690.1 |
| 275.6 | 259.3 | 264.1 | 191.2 | NM_005227.2 |
| 92.9 | 88.9 | 91.2 | 84.4 | NM_001962.1 |
| 114.5 | 106.5 | 95.7 | 108.2 | NM_004429.3 |
| 115.4 | 113 | 110.3 | 111 | NM_004093.2 |
| 94.5 | 82.7 | 80.2 | 83.7 | NM_001406.3 |
| 92.4 | 91.6 | 93.4 | 92.5 | NM_005864.2 |
| 85.2 | 95.3 | 87.8 | 90.1 | NM_005864.2 |
| 169.7 | 199.9 | 166.3 | 155.9 | NM_024580.3 |
| 198.1 | 246.5 | 199.6 | 198.1 | NM_024580.3 |
| 89 | 89.9 | 80.4 | 93.5 | NM_024580.3 |
| 1442.3 | 1484.6 | 1106.8 | 1040 | NM_004247.2 |
| 87.6 | 93 | 88.4 | 85.8 | NM_001963.2 |
| 89.2 | 93.7 | 89.3 | 100.2 | XM_929502.1 |
| 97.9 | 84.8 | 86.5 | 90.7 | NM_015507.2 |
| 142.1 | 115.1 | 107 | 111.5 | NM_016215.3 |
| 94.9 | 100.9 | 90.4 | 97.1 | NM_016215.3 |
| 77.7 | 76 | 73.5 | 71.1 | NM_030652.1 |
| 79.3 | 82.2 | 77.4 | 84.2 | NM_023932.2 |
| 98.3 | 91.1 | 87.8 | 88.8 | NM_023932.2 |
| 99.5 | 107.9 | 85.7 | 98.3 | NM_206539.1 |
| 135.9 | 185.4 | 177.4 | 157 | NM_182799.1 |
| 95 | 94 | 86.5 | 93.6 | NM_005228.3 |

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| 87.1 | 90.2 | 93.4 | 92 NM_201284.1 |
| 89.1 | 85.9 | 74.9 | 85.3 NM_201282.1 |
| 94.4 | 97.3 | 92.7 | 98.1 NM_201283.1 |
| 209.5 | 197.2 | 166.8 | 165.4 NM_022051.1 |
| 86 | 94.8 | 85.9 | 85.7 NM_017555.1 |
| 1972.7 | 2199.4 | 2173.8 | 937 NM_080732.1 |
| 94.4 | 96.9 | 85.7 | 90.3 NM_022073.2 |
| 202.3 | 169.2 | 138.2 | 147.2 NM_001964.2 |
| 114.3 | 110.5 | 104 | 110.4 NM_000399.2 |
| 96.1 | 91.1 | 85.7 | 94.1 NM_004430.2 |
| 112 | 107.9 | 110.9 | 104.3 NM_004430.2 |
| 94.8 | 87.1 | 73.8 | 77.6 NM_001965.1 |
| 773.7 | 698.9 | 727.4 | 585.3 NM_015252.2 |
| 999 | 874 | 849.5 | 490.4 NM_006795.2 |
| 101.2 | 100.1 | 93.3 | 94.8 NM_014601.2 |
| 90.2 | 89.6 | 72.6 | 74.1 NM_014600.1 |
| 361.9 | 427.3 | 345.6 | 281.4 NM_139265.2 |
| 92.9 | 84.5 | 77.7 | 87.6 NM_012153.3 |
| 266.8 | 312.5 | 268.5 | 262.8 NM_001966.2 |
| 121.9 | 123.9 | 104.8 | 108.4 NM_024757.3 |
| 153.5 | 151.5 | 151.3 | 124.4 NM_006709.2 |
| 81.4 | 81.8 | 76.6 | 84.9 NM_006709.2 |
| 2495.5 | 1169.3 | 1359.7 | 770.8 NM_004879.3 |
| 609.1 | 339.8 | 317.3 | 375.3 NM_004879.3 |
| 1473.9 | 2244.5 | 2444.7 | 2108.4 NM_152361.1 |
| 76.8 | 81.6 | 88.7 | 85.7 NM_001008394.1 |
| 2733.3 | 2329.6 | 2005 | 1888.2 NM_005801.3 |
| 102.1 | 98.3 | 96.5 | 99.9 XM_942595.1 |
| 792.3 | 435.3 | 622 | 667.2 NM_001412.3 |
| 131.8 | 131.5 | 131.4 | 112.1 NM_001412.3 |
| 220.6 | 227 | 197.1 | 180.6 NM_004681.2 |
| 553 | 428.6 | 510.2 | 385.1 NM_005875.2 |
| 2429.5 | 2330.1 | 1609.9 | 1635.4 NM_032025.2 |
| 3143.3 | 2484.8 | 2511.2 | 1671.9 NM_014413.2 |
| 656.7 | 701.1 | 750.6 | 595 NM_002759.1 |
| 216.4 | 352.7 | 405 | 266.9 NM_001013703.2 |
| 708.4 | 688.4 | 529.5 | 430.4 NM_001414.2 |
| 761.8 | 703.8 | 579 | 458.5 NM_014239.2 |
| 2059.5 | 1702.7 | 1651.5 | 1192.9 NM_015636.2 |
| 1549.8 | 1368.8 | 1260.2 | 805.3 NM_015636.3 |
| 98.6 | 94 | 88.2 | 94.9 NM_172195.1 |
| 525.9 | 564.9 | 454 | 322 NM_003907.1 |
| 200.8 | 232.2 | 217.4 | 170 NM_012199.2 |
| 846.5 | 1047.2 | 1229.5 | 664.5 NM_012154.2 |
| 110.4 | 124.8 | 109.8 | 113.8 NM_177422.1 |
| 109 | 114.1 | 121.1 | 102.1 NM_024852.2 |
| 133.1 | 121 | 114.7 | 126.4 NM_017629.2 |
| 199.3 | 161.7 | 174.6 | 128.4 NM_004094.4 |
| 316.9 | 390 | 296.7 | 251.3 NM_003908.3 |
| 5085.1 | 4436.1 | 4008.2 | 3009 NM_001415.2 |

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| 658.3 | 507.5 | 379 | 441.5 | NM_003758.1 |
| 554.3 | 547.3 | 629.1 | 388.5 | NM_003750.1 |
| 3609.2 | 2499.2 | 2365.7 | 1463.3 | NM_013234.1 |
| 1825.5 | 1935.1 | 1776.7 | 1395.2 | NM_003757.1 |
| 4677.8 | 4236.9 | 3889 | 2864.2 | NM_003756.1 |
| 2410.4 | 1423.5 | 1357.8 | 961.7 | NM_003755.2 |
| 4918.8 | 3500.1 | 3121.6 | 2598.5 | NM_003754.1 |
| 21381.8 | 14155.1 | 13570.4 | 13039.4 | NM_001568.1 |
| 5454.5 | 4773.7 | 3803.3 | 3156 | NM_016091.2 |
| 4174.2 | 4093.1 | 3176.7 | 2995.4 | NM_003753.2 |
| 107.3 | 103.7 | 87.8 | 93.2 | NM_001037808.1 |
| 6519.8 | 7250.9 | 7102.3 | 3397.7 | NM_001037283.1 |
| 411.2 | 466.6 | 329.8 | 326.7 | NM_001037283.1 |
| 1814.8 | 1816.7 | 1484 | 1163 | NM_003751.2 |
| 17422.1 | 13270.9 | 13036.2 | 10110 | NM_001416.1 |
| 3554.1 | 4052.8 | 3483.6 | 3150.5 | NM_001967.2 |
| 3936.6 | 3775 | 2848.7 | 2770.6 | NM_001417.2 |
| 118.6 | 110.5 | 108.9 | 107.4 | NM_001968.2 |
| 549.2 | 616.4 | 419.9 | 401 | NM_004846.2 |
| 155.6 | 166.3 | 152.2 | 133.7 | NM_173359.3 |
| 215.7 | 148.3 | 144.5 | 123.7 | NM_004095.2 |
| 668.6 | 530.4 | 403.8 | 395.1 | NM_004096.3 |
| 88.6 | 93.3 | 83.8 | 86.4 | NM_003732.2 |
| 473.3 | 444.5 | 453.7 | 325.3 | NM_019843.2 |
| 842 | 862.6 | 783 | 657 | NM_198244.1 |
| 77 | 85.8 | 79.2 | 88.2 | NM_182917.2 |
| 2204.5 | 2681.9 | 2229.8 | 1720 | NM_004953.2 |
| 91.8 | 91.4 | 85.5 | 86.3 | NM_004953.2 |
| 4902.5 | 2448.2 | 1924.8 | 1892.7 | NM_001418.1 |
| 630.2 | 454.1 | 305.7 | 290.1 | NM_001418.1 |
| 7156.1 | 4400 | 2675.4 | 3501.8 | NM_001418.1 |
| 759.6 | 1136.2 | 845.8 | 759.6 | NM_003760.2 |
| 2239.1 | 2271.3 | 1906.9 | 1461.1 | NM_022170.1 |
| 102.1 | 118.1 | 95.9 | 94.7 | NM_001969.3 |
| 1906.2 | 1357.2 | 1154.6 | 858 | NM_001969.3 |
| 97.8 | 87.1 | 109.1 | 91 | NM_183004.3 |
| 1034.5 | 796.9 | 640.2 | 531.5 | NM_001970.3 |
| 105.1 | 90 | 93.4 | 82.3 | NM_020390.5 |
| 437.6 | 537.8 | 427.2 | 311.3 | NM_015904.2 |
| 90.7 | 119.4 | 119.4 | 119.6 | NM_001971.4 |
| 24999.9 | 24327.8 | 24073 | 12290 | NM_001972.2 |
| 91.4 | 79.5 | 80.4 | 91.7 | NM_033440.1 |
| 106.3 | 99.6 | 99.1 | 86.1 | NM_015849.2 |
| 89.8 | 76.9 | 86.6 | 82.1 | NM_005747.3 |
| 104.5 | 90.8 | 93.6 | 85.5 | NM_007352.2 |
| 180.6 | 181 | 164.7 | 146.8 | NM_018696.2 |
| 255.7 | 235.4 | 208.7 | 202.2 | NM_018127.4 |
| 164.5 | 158.4 | 159.2 | 125.7 | NM_001419.2 |
| 103.1 | 105.9 | 95.6 | 102.3 | NM_004432.1 |
| 89.9 | 90.8 | 86.7 | 85.5 | NM_001420.3 |

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| 102.3 | 95.2 | 90.9 | 94.3 NM_001420.3 |
| 90.5 | 85.9 | 92.5 | 100 NM_021952.2 |
| 2369.1 | 2284.3 | 1804 | 1608.3 NM_172373.2 |
| 128.8 | 146.3 | 150.5 | 150.4 NM_201999.1 |
| 945 | 826.3 | 746.8 | 600.3 NM_006874.2 |
| 157 | 148.9 | 137.1 | 129.6 NM_006874.2 |
| 109.7 | 97.7 | 87.5 | 96 NM_004433.3 |
| 801.5 | 681.5 | 600.8 | 363.5 NM_001421.1 |
| 77.5 | 79.4 | 80.6 | 83 NM_198381.1 |
| 92.2 | 84 | 79.9 | 87.2 NM_001422.2 |
| 138.3 | 164.8 | 161.9 | 124.1 NM_005229.2 |
| 99.2 | 98.3 | 92.1 | 92.4 NM_005230.2 |
| 127.4 | 116.8 | 96.1 | 107.1 NM_001973.2 |
| 83.4 | 84.2 | 86.4 | 80.2 NM_021795.2 |
| 110.2 | 112 | 95.9 | 102.4 NM_001973.2 |
| 310.1 | 237.4 | 228.4 | 163.8 NM_006532.2 |
| 101 | 101.2 | 99.4 | 97.2 NM_025165.2 |
| 235.6 | 472.2 | 394.4 | 293.8 NM_152793.1 |
| 89 | 89.8 | 94.4 | 91.7 NM_130442.1 |
| 397.7 | 617.2 | 497.9 | 391 NM_014800.8 |
| 85.3 | 82.7 | 85.1 | 84.3 NM_001039459.1 |
| 114.8 | 132.2 | 133.5 | 131.8 NM_014800.8 |
| 99 | 125 | 102.7 | 105.2 NM_022086.6 |
| 393.5 | 534.8 | 485.9 | 345.1 NM_133171.2 |
| 95.5 | 97.1 | 89.9 | 93.7 NM_133171.2 |
| 119.2 | 119.5 | 118 | 108.1 NM_024712.2 |
| 107.5 | 92.7 | 85.4 | 94.6 NM_018712.2 |
| 179.3 | 144.5 | 125.4 | 128.4 NM_153702.1 |
| 80.5 | 87.3 | 80.6 | 76.6 NM_000501.1 |
| 105.2 | 91.5 | 86.3 | 91.3 NM_001081754.1 |
| 128.3 | 135.1 | 120.9 | 110.5 NM_032377.2 |
| 261.7 | 241.4 | 223.1 | 227.9 NM_022821.2 |
| 87.4 | 92.6 | 84.6 | 93 NM_017770.2 |
| 110.5 | 92.9 | 95.6 | 92 NM_152310.1 |
| 116.8 | 109.6 | 105.2 | 111.9 NM_022726.2 |
| 1398.1 | 1047.9 | 933.7 | 1264.5 NM_021814.3 |
| 98.1 | 92.3 | 87.1 | 94.2 NM_024090.1 |
| 90.9 | 87.6 | 81.1 | 85.8 NM_024930.1 |
| 934.3 | 747.7 | 751.2 | 488.1 NM_018091.3 |
| 286.2 | 206.6 | 198.4 | 183.9 NM_019040.2 |
| 93.9 | 80.6 | 78.4 | 93.7 XM_946145.1 |
| 89.9 | 81.4 | 79.2 | 84.2 NM_016242.2 |
| 97 | 92.9 | 79.4 | 86.9 NM_000117.1 |
| 158.5 | 146.2 | 157.9 | 151.9 NM_152463.1 |
| 91.3 | 93.2 | 89.7 | 98 NM_001010865.1 |
| 1013.5 | 690.4 | 525.6 | 429.8 NM_006331.4 |
| 92.6 | 97.9 | 90.9 | 96.3 NM_133455.2 |
| 91.1 | 90.7 | 88.4 | 86 NM_007046.1 |
| 1715.6 | 1608 | 1587.8 | 797 NM_032048.2 |
| 89 | 84.4 | 94.7 | 87.8 NM_052846.1 |

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| 179.3 | 134.7 | 116.2 | 115.6 NM_004434.2 |
| 83.1 | 84.1 | 82.8 | 86.8 NM_001008707.1 |
| 139.8 | 115.4 | 97.7 | 106.4 NM_004434.2 |
| 1005.7 | 768.5 | 793.7 | 401.4 NM_153265.1 |
| 280.8 | 225.7 | 225.6 | 200.2 NM_019063.2 |
| 82.5 | 81.7 | 86 | 86.3 NM_183387.1 |
| 136.9 | 94.6 | 82.5 | 85.4 NM_001423.1 |
| 95.7 | 86.8 | 81.9 | 83.9 NM_001424.3 |
| 3898.7 | 2336 | 2283.7 | 1546.5 NM_001425.1 |
| 99.7 | 100.8 | 93.6 | 104.9 NM_001974.3 |
| 138 | 394.7 | 377.4 | 267.8 NM_152916.1 |
| 76.2 | 78.7 | 69.5 | 75.5 NM_032571.2 |
| 79.6 | 88.5 | 92.9 | 82.9 NM_032571.2 |
| 92.9 | 101.9 | 86.8 | 100.9 NM_001080498.1 |
| 95.5 | 114.9 | 98.5 | 99.5 NM_001080498.1 |
| 89.4 | 90 | 88.6 | 92.3 NM_004097.1 |
| 79 | 82.8 | 79.8 | 82.7 NM_001040404.1 |
| 96.1 | 88.4 | 92.8 | 89.8 NM_004098.2 |
| 94.8 | 84.4 | 86 | 82.4 NM_001426.2 |
| 90.8 | 83.7 | 76.7 | 90.6 NM_001427.2 |
| 81.7 | 80.8 | 77.1 | 78.3 NM_018212.4 |
| 92.1 | 78.4 | 79.9 | 79 NM_018212.4 |
| 82 | 79.2 | 74.4 | 83.9 NM_001008493.1 |
| 94.8 | 94 | 88.3 | 86.5 NM_031889.1 |
| 149.2 | 159.2 | 142.7 | 144 NM_003633.1 |
| 459.6 | 259.4 | 237.3 | 188 NM_004435.2 |
| 115.7 | 87.4 | 93.4 | 99.3 NM_005107.1 |
| 330.7 | 282.1 | 206.6 | 182.7 NM_000118.1 |
| 16648 | 11470.3 | 10757.7 | 6353.1 NM_001428.2 |
| 89.1 | 95 | 82.2 | 92.8 NM_001975.2 |
| 139.3 | 190 | 182.4 | 136.9 NM_001976.2 |
| 93.1 | 97.6 | 106.6 | 106 NM_001976.2 |
| 428.6 | 382.3 | 336.3 | 320.3 NM_017512.2 |
| 75.7 | 80.9 | 82.9 | 83.4 NM_001977.2 |
| 105 | 114 | 101.1 | 94.4 NM_006208.1 |
| 98.9 | 92.6 | 90.8 | 91.8 NM_006209.2 |
| 86.7 | 82.8 | 76.8 | 75.6 NM_001040092.1 |
| 100.6 | 83.6 | 83.3 | 89.6 NM_005021.2 |
| 230.1 | 250.1 | 222 | 243.3 NM_014936.3 |
| 101.3 | 90.9 | 91.8 | 93.9 NM_021572.4 |
| 90.1 | 79.7 | 79.7 | 99.7 NM_153343.2 |
| 95.5 | 91.6 | 87.9 | 93 NM_178543.3 |
| 95.1 | 89.4 | 79 | 83.6 NM_207168.1 |
| 646.7 | 770 | 666.1 | 488.1 NM_207168.1 |
| 2231.5 | 2985.6 | 2100.6 | 2448.4 NM_014666.2 |
| 131.8 | 120.2 | 120.2 | 118.3 NM_001776.3 |
| 97 | 79.1 | 79.4 | 81.4 NM_001246.2 |
| 81.3 | 87.6 | 78.4 | 86.2 NM_203468.1 |
| 76.6 | 70.4 | 83.7 | 88 NM_001248.1 |
| 182.5 | 168.5 | 143.9 | 145.8 NM_004901.1 |

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| 92.7 | 93.6 | 85.8 | 96.5 NM_001249.1 |
| 461.7 | 394.4 | 358 | 294 NM_001247.1 |
| 119.8 | 114.6 | 100.7 | 85.5 NM_020354.2 |
| 85.3 | 89.2 | 80.2 | 89.8 NM_001033113.1 |
| 95.2 | 79.4 | 73.2 | 87.4 NM_198585.1 |
| 91.1 | 103.8 | 87.1 | 84.4 NM_001033113.1 |
| 5369 | 2868.9 | 2708.8 | 2519.5 NM_020189.4 |
| 103.7 | 81.9 | 85.7 | 82.6 NM_005442.2 |
| 288.3 | 674.2 | 569.1 | 575.6 NM_001429.2 |
| 409 | 678.4 | 524.8 | 579.8 NM_015409.3 |
| 95.9 | 91.3 | 85.8 | 95.7 NR_003290.1 |
| 87.9 | 101 | 84.4 | 87.8 XM_926826.1 |
| 547.1 | 930.5 | 963.8 | 814.4 NM_001430.3 |
| 88.3 | 97.3 | 84 | 90.6 NM_203343.1 |
| 88.7 | 84.9 | 85.9 | 91 NM_203342.1 |
| 106.5 | 97.4 | 95.9 | 93.9 NM_203343.1 |
| 95.5 | 100.1 | 91.4 | 97 NM_012156.2 |
| 93.3 | 85.1 | 87.9 | 84.5 NM_177996.1 |
| 113.5 | 91.8 | 80.9 | 95.1 NM_001431.1 |
| 551.8 | 1112.1 | 665.6 | 909.8 NM_012307.2 |
| 96.4 | 102.2 | 92.5 | 85.8 NM_018424.1 |
| 84.2 | 79.5 | 88.4 | 83.6 NM_019114.2 |
| 80.3 | 83.1 | 84.4 | 83.8 NM_020909.2 |
| 86 | 83.9 | 75.5 | 82 NM_000119.1 |
| 111.4 | 103.2 | 101.5 | 105.6 NM_001978.1 |
| 129.4 | 150.8 | 143.8 | 148.1 NM_025209.2 |
| 110.5 | 112.5 | 108.1 | 102.5 NM_015630.2 |
| 3300.2 | 2472.6 | 2190.8 | 1808.9 NM_017549.2 |
| 152.4 | 142.2 | 137.5 | 127 NM_001013442.1 |
| 131.4 | 116.6 | 107.5 | 107.1 NM_005232.3 |
| 109.1 | 110.9 | 109.4 | 102.6 NM_173641.1 |
| 93.3 | 93.6 | 89.1 | 84.6 NM_001004338.1 |
| 89.3 | 93 | 79.1 | 94.1 NM_004431.2 |
| 90.8 | 89 | 86.8 | 86.1 NM_182644.1 |
| 101.3 | 98.7 | 99.1 | 98.5 NM_182644.1 |
| 84.9 | 84.7 | 85.3 | 81.1 NM_005233.3 |
| 86.7 | 80.3 | 89.2 | 88.6 NM_004438.3 |
| 77.7 | 82.8 | 88.3 | 86.7 NM_182472.1 |
| 77.7 | 80 | 71.7 | 78.4 NM_004439.4 |
| 89.7 | 77.1 | 84.2 | 83.5 NM_004439.4 |
| 83.8 | 83.7 | 81.8 | 83.9 NM_001080448.1 |
| 123.5 | 116.1 | 108.9 | 100.8 XM_937418.1 |
| 93.7 | 92.3 | 102 | 87.9 NM_004440.2 |
| 101 | 103 | 95.9 | 104.9 NM_020526.3 |
| 85 | 91.2 | 84.2 | 90.9 NM_001006943.1 |
| 220.2 | 306.2 | 275.6 | 406.7 NM_004441.3 |
| 81.1 | 91.9 | 90.5 | 87.5 NM_004442.6 |
| 86 | 80.9 | 74.2 | 82 NM_017449.2 |
| 127.5 | 118.1 | 123.7 | 108.4 NM_004443.3 |
| 168.4 | 169 | 143.2 | 153.1 NM_004444.4 |

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| 131.2 | 109.3 | 102.4 | 103.8 NM_004445.2 |
| 183.7 | 170.6 | 150.9 | 155.5 NM_000120.2 |
| 96.1 | 105.5 | 115.5 | 92.2 NM_001979.4 |
| 102.2 | 87.6 | 79.2 | 89.5 NM_194356.1 |
| 114.4 | 112.4 | 100.7 | 96.5 NM_005670.3 |
| 88.5 | 96.8 | 77.1 | 93.4 NM_001018041.1 |
| 416.9 | 383.7 | 322.6 | 350.5 NM_014805.2 |
| 4820.1 | 2961.8 | 2522.7 | 1560.5 NM_013333.2 |
| 96.1 | 89.7 | 84.9 | 83.3 NM_148921.2 |
| 98.4 | 94.2 | 91.7 | 89.8 NM_014964.3 |
| 103.2 | 106.5 | 108.1 | 99.6 NM_014964.3 |
| 83.8 | 84.3 | 77.9 | 85.9 NM_017957.1 |
| 94.7 | 82.6 | 82.6 | 79.5 NM_000799.2 |
| 128.7 | 108.9 | 90.5 | 93.7 NM_000121.2 |
| 94.7 | 87.5 | 90.5 | 83.9 NM_015681.2 |
| 112.4 | 106.8 | 103.7 | 92.7 NR_002219.1 |
| 5400.1 | 4960 | 4062 | 3066.1 NM_004446.2 |
| 201.3 | 173.1 | 192.3 | 176.4 NM_001981.2 |
| 152.8 | 163.4 | 126.7 | 129.8 NM_021235.1 |
| 101.9 | 91.5 | 92 | 97 NM_139204.1 |
| 111.2 | 101.3 | 97.1 | 102.8 NM_133180.1 |
| 92.5 | 88 | 88.4 | 90.5 NM_133180.1 |
| 78.5 | 95.6 | 83.1 | 83.2 NM_017729.2 |
| 89.5 | 85.9 | 89.8 | 83.4 NM_022772.2 |
| 86.8 | 87.8 | 97.8 | 85.7 NM_133181.2 |
| 98 | 86.2 | 85 | 90.2 NM_024526.2 |
| 172.3 | 174.8 | 140.7 | 152.1 NM_033255.2 |
| 81.8 | 87.8 | 84.3 | 88.2 NM_000502.2 |
| 95.7 | 103.3 | 98.3 | 88.4 NM_016633.2 |
| 1136.7 | 752.8 | 598.9 | 434.1 NM_005702.2 |
| 88.6 | 93.4 | 92.1 | 87.3 NM_181532.2 |
| 72.6 | 77 | 79.6 | 80.2 NM_004448.2 |
| 101.1 | 105.8 | 90.8 | 86.3 NM_001005862.1 |
| 115.7 | 110.8 | 121.5 | 111.6 NM_004448.2 |
| 123.3 | 123.6 | 118.8 | 112.5 NM_018695.2 |
| 106 | 107.2 | 104.6 | 115.4 NM_001006600.1 |
| 93 | 105.6 | 91.3 | 94.7 NM_001005915.1 |
| 94.3 | 97.4 | 91.6 | 89.3 NM_001005915.1 |
| 98.5 | 86 | 88.1 | 89.6 NM_001982.2 |
| 123.2 | 120.2 | 127.1 | 102 NM_005235.1 |
| 92.7 | 96.6 | 90 | 87.5 NM_178037.1 |
| 1160.6 | 894.4 | 775.6 | 701.7 NM_001983.2 |
| 1296.2 | 739.8 | 776.9 | 462.6 NM_001983.2 |
| 96.8 | 105 | 105.9 | 98.8 NM_202001.1 |
| 311.4 | 233.4 | 240.2 | 144.2 NM_000400.2 |
| 422.9 | 529.8 | 470.2 | 371.5 NM_000122.1 |
| 121.6 | 125.6 | 108.9 | 99.4 NM_005236.1 |
| 827.6 | 833.4 | 757.7 | 811.4 NM_000123.2 |
| 92.3 | 90.2 | 83.6 | 90.5 NM_000124.1 |
| 92.6 | 85.7 | 91.5 | 83.7 NM_001007234.1 |

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|--------|--------|--------|--------|----------------|
| 206.7 | 161.2 | 137.5 | 149.2 | NM_001007234.1 |
| 89.1 | 84.7 | 78.8 | 78 | NM_001007233.1 |
| 166.6 | 131.4 | 118.8 | 116.3 | NM_000082.2 |
| 92.3 | 100 | 96.1 | 90.7 | NM_001432.1 |
| 200.6 | 125.7 | 127.9 | 123.8 | NM_006494.1 |
| 86.1 | 78.9 | 83.1 | 82.9 | NM_182918.2 |
| 92 | 89.7 | 96.2 | 85.7 | NM_004449.3 |
| 109.2 | 107.2 | 95.1 | 94.5 | NM_182918.2 |
| 158.7 | 203.9 | 175.5 | 149.3 | NM_001031711.1 |
| 97.3 | 124.4 | 92.9 | 100.7 | NM_001031711.1 |
| 91.1 | 109.5 | 112.9 | 127.6 | NM_020462.1 |
| 249.3 | 208.2 | 193.1 | 243.7 | NM_016570.2 |
| 756.3 | 669.4 | 602.4 | 513.3 | NM_198398.1 |
| 3295.6 | 2896.1 | 2625.2 | 1938.6 | NM_198398.1 |
| 2202.1 | 1461.2 | 1236 | 1007.2 | NM_004450.1 |
| 1072.4 | 753.6 | 714.6 | 555 | NM_207332.1 |
| 138.2 | 135.7 | 138.4 | 123.6 | NM_001003791.1 |
| 112.6 | 137.7 | 155 | 142.7 | NM_001017922.1 |
| 408.9 | 459.2 | 473.8 | 397.7 | NM_001017922.1 |
| 147 | 134.6 | 155.2 | 131 | NM_152461.2 |
| 83.7 | 82.5 | 77.6 | 88.6 | NM_152461.2 |
| 88 | 95.5 | 87.9 | 94 | NM_033266.2 |
| 292.8 | 215.3 | 201.6 | 181.3 | NM_014584.1 |
| 133.4 | 137.2 | 134.1 | 149 | NM_019891.2 |
| 1763 | 1568.6 | 1503.5 | 1152.3 | NM_006817.3 |
| 8275.9 | 8076.2 | 8802.1 | 5816.2 | NM_001034025.1 |
| 168.3 | 207 | 200.8 | 162.3 | NM_018948.2 |
| 99.4 | 140.7 | 123.6 | 126.3 | NM_001007253.1 |
| 94.7 | 86.1 | 84.1 | 96.7 | NM_014590.3 |
| 91.1 | 96.1 | 98.5 | 91.3 | NM_138961.1 |
| 111.1 | 114 | 95.4 | 110.8 | NM_052911.1 |
| 120 | 90.2 | 97.6 | 101 | NM_001017420.2 |
| 195.2 | 164.7 | 152.7 | 179.3 | NM_001984.1 |
| 86.5 | 87.2 | 76.6 | 91.8 | NM_007036.3 |
| 212.7 | 192.6 | 203.6 | 161.7 | NM_012291.3 |
| 113.2 | 109.7 | 87.7 | 87.9 | NM_031475.1 |
| 79.1 | 86.5 | 78.3 | 78.7 | NM_194312.1 |
| 86.5 | 84.7 | 84.1 | 89.2 | NM_000125.2 |
| 96.9 | 99.3 | 88.1 | 91.5 | NM_001040275.1 |
| 96 | 91.4 | 93.7 | 93.8 | NM_001437.1 |
| 236.6 | 201.8 | 175.8 | 176.9 | NM_004451.3 |
| 101.3 | 91.4 | 95.4 | 89.8 | NM_004452.2 |
| 102 | 109.7 | 94.9 | 82.8 | NM_001438.2 |
| 93.6 | 88.6 | 87 | 89.6 | NM_206595.1 |
| 72.2 | 73.1 | 73.4 | 75.5 | NM_206594.1 |
| 90.4 | 76.7 | 82.4 | 78.7 | NM_183375.1 |
| 176.5 | 182.4 | 200.7 | 128.4 | NR_000033.2 |
| 88.2 | 86.9 | 86.8 | 96.6 | NM_153448.2 |
| 322.9 | 378.5 | 467 | 342.6 | NM_024311.2 |
| 96.5 | 87.6 | 88.8 | 95.2 | NM_019002.2 |

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| 2342.3 | 1675.9 | 1349.8 | 1281.3 | NM_004730.1 |
| 4625.7 | 4403.9 | 3918.3 | 2844.2 | NM_000126.1 |
| 77.8 | 77.8 | 78.8 | 77.8 | NM_001014763.1 |
| 2158.7 | 2112.9 | 2022.3 | 1448.8 | NM_001985.2 |
| 1585.4 | 1628 | 1751.8 | 1083.2 | NM_001014763.1 |
| 586.8 | 579.1 | 430.4 | 474.1 | NM_004453.1 |
| 99.7 | 88.8 | 84.5 | 86.4 | NM_014297.3 |
| 107.6 | 100 | 86.4 | 93.5 | NM_001039481.1 |
| 161.5 | 128.7 | 120.4 | 131.3 | NM_001039481.1 |
| 221.8 | 153.5 | 165.8 | 162.5 | NM_018638.3 |
| 93.2 | 95.6 | 98.8 | 91.9 | NM_018208.1 |
| 209.5 | 205.2 | 211.4 | 210 | NM_005238.2 |
| 433.9 | 512.3 | 469.2 | 456.6 | NM_005239.4 |
| 78.9 | 78.3 | 79.6 | 77.9 | NM_004956.3 |
| 88 | 91.8 | 88.8 | 87.8 | NM_014209.1 |
| 139.4 | 132.9 | 129.1 | 140.6 | NM_005240.1 |
| 143.2 | 119 | 110.3 | 106.6 | NM_001986.1 |
| 114.6 | 96.4 | 81.7 | 93 | NM_001986.1 |
| 534 | 537.2 | 496.1 | 326.5 | NM_004454.1 |
| 99.6 | 106.2 | 94.7 | 91.8 | NM_004454.1 |
| 245.9 | 228 | 223.8 | 180.6 | NM_001987.3 |
| 92.1 | 90.3 | 79.9 | 90.4 | NM_144765.1 |
| 95.9 | 98.6 | 85.1 | 84.4 | NM_005797.2 |
| 99.4 | 82 | 75.9 | 77.7 | NM_144765.1 |
| 92.5 | 102.3 | 96.9 | 88.4 | NM_153717.1 |
| 100.6 | 96 | 90.9 | 96.5 | NM_153717.1 |
| 99.9 | 89.6 | 81.3 | 86.2 | NM_147127.2 |
| 82.1 | 84.5 | 82.2 | 88.8 | NM_005241.1 |
| 146.2 | 133.6 | 114.2 | 108.1 | NM_014210.2 |
| 95.6 | 96.6 | 87.7 | 97 | NM_001003927.1 |
| 90.9 | 89.4 | 84.6 | 85.1 | NM_006495.2 |
| 403.2 | 374 | 343.8 | 176.1 | NM_145245.2 |
| 2015.8 | 1745.8 | 1868.6 | 984 | NM_016337.2 |
| 99.9 | 96.8 | 88.9 | 100.3 | NM_001988.1 |
| 99.4 | 82.1 | 93.1 | 87.1 | NM_001989.2 |
| 78.2 | 87.4 | 85.9 | 87.4 | NM_001080458.1 |
| 1661.6 | 1800.2 | 1612.2 | 1062.6 | NM_013986.2 |
| 95.9 | 111.3 | 103.5 | 105.8 | NM_013986.2 |
| 2340 | 2158.9 | 1861.6 | 1980.5 | NM_005243.1 |
| 80.9 | 76.1 | 72.2 | 76.3 | NM_152596.2 |
| 282.2 | 296.4 | 243.7 | 252.5 | NM_018199.1 |
| 898.2 | 693.7 | 681.3 | 558.8 | NM_003686.3 |
| 211.6 | 154.1 | 130.1 | 153 | NM_006027.3 |
| 90.8 | 87.2 | 75.4 | 87.9 | NM_130398.2 |
| 127.7 | 147.1 | 141.2 | 130.1 | NM_001024924.1 |
| 161.3 | 129.7 | 143.1 | 156.6 | NM_018261.3 |
| 475.1 | 448.1 | 359.7 | 491.7 | NM_018261.3 |
| 114.9 | 169.2 | 133.7 | 128 | NM_018303.4 |
| 91.1 | 97.3 | 87.8 | 89.4 | NM_178516.3 |
| 137 | 158.5 | 181.2 | 180.6 | NM_001037126.1 |

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| 95.5 | 101.2 | 97.3 | 100.2 NM_001013848.1 |
| 337.9 | 210.7 | 182 | 165.5 NM_001013848.1 |
| 91.9 | 92.1 | 94.4 | 80.9 NM_019053.3 |
| 918.9 | 793 | 776.6 | 509.2 NM_015219.2 |
| 129.9 | 133.3 | 123.8 | 119.6 NM_001013839.1 |
| 96.3 | 101.6 | 96 | 88.9 NM_175876.3 |
| 1796.3 | 1223.3 | 1212.5 | 778.4 NM_016046.3 |
| 475.2 | 393.1 | 344.1 | 329.8 NM_002685.2 |
| 810.4 | 746.5 | 829.2 | 544.7 NM_002685.2 |
| 629.1 | 509.2 | 552 | 455.6 NM_001001998.1 |
| 827.6 | 494.3 | 457.5 | 328.2 NM_014285.4 |
| 1776.2 | 932.4 | 803.8 | 779.7 NM_016042.2 |
| 2427 | 1294.6 | 1157.4 | 822.9 NM_001002269.1 |
| 495.7 | 324.1 | 292.6 | 268.1 NM_019037.2 |
| 607.9 | 376 | 276.5 | 237.1 NM_020158.3 |
| 1017.9 | 534.4 | 464.7 | 422.7 NM_058219.2 |
| 996.9 | 755 | 712.6 | 447.2 NM_015004.2 |
| 1116 | 789.6 | 640.8 | 609.7 NM_181503.1 |
| 241 | 186.1 | 143 | 149 NM_001034194.1 |
| 508.8 | 348 | 228.3 | 288.5 NM_005033.1 |
| 105.7 | 105.2 | 90.2 | 97.1 NM_015065.1 |
| 116.2 | 113.8 | 108.3 | 111.2 NM_000127.2 |
| 86.4 | 78.4 | 82.4 | 80.7 NM_000401.2 |
| 337.9 | 258.4 | 220.4 | 206.9 NM_000401.2 |
| 203.4 | 170.3 | 146.1 | 135.3 NM_207122.1 |
| 102.9 | 101.8 | 91.9 | 96.5 NM_004455.1 |
| 154 | 129.5 | 114.8 | 126.4 NM_001033025.1 |
| 419.3 | 283.1 | 233.7 | 295.9 NM_001439.2 |
| 243.7 | 238.7 | 189.6 | 167.1 NM_001440.2 |
| 88.2 | 90.7 | 91.7 | 87.1 NM_000503.3 |
| 82.5 | 79.4 | 76.6 | 76.1 NM_172059.1 |
| 89 | 92.3 | 82.1 | 89.8 NM_172059.1 |
| 90.4 | 95.5 | 86.9 | 102.1 NM_005244.3 |
| 87.6 | 85.3 | 94.2 | 90.6 NM_172111.1 |
| 87.6 | 102 | 92.1 | 93.8 NM_172112.1 |
| 96.9 | 103.8 | 95.9 | 99.6 NM_172112.1 |
| 86.2 | 86 | 82.6 | 87.6 NM_172113.1 |
| 112.4 | 105.3 | 95.2 | 101.8 NM_172098.1 |
| 97 | 89.8 | 77.6 | 94.6 NM_001990.2 |
| 88.9 | 80.4 | 79.3 | 92.1 NM_172104.1 |
| 98 | 90.4 | 83 | 88.2 NM_004100.3 |
| 102.2 | 90.7 | 96.5 | 93.8 NM_172105.1 |
| 110 | 104.2 | 101.9 | 95.7 NM_001991.2 |
| 376.3 | 313.2 | 274.5 | 271 NM_004456.3 |
| 300.4 | 235.5 | 199 | 202.9 NM_152998.1 |
| 507.9 | 405.2 | 406.5 | 366.2 NM_152998.1 |
| 95.7 | 88.2 | 88.2 | 91.1 NM_000504.2 |
| 96 | 97.5 | 98.9 | 83.6 NM_000128.2 |
| 83.9 | 84.6 | 83.7 | 86.8 NM_000128.2 |
| 114.7 | 110.4 | 104.6 | 109 NM_016946.3 |

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| 91.5 | 90.6 | 85.5 | 93.2 NM_144503.1 |
| 122.9 | 157.2 | 160.5 | 173.3 NM_144504.1 |
| 112.3 | 106.1 | 108.8 | 89.5 NM_000505.2 |
| 109.4 | 187.5 | 159.8 | 177.4 NM_000129.2 |
| 83.2 | 78.5 | 79.3 | 86.8 NM_001994.1 |
| 120.8 | 96.4 | 106.5 | 94.5 NM_019104.1 |
| 20789.2 | 28917.8 | 29168.2 | 26710.7 NM_001992.2 |
| 86.6 | 81.7 | 80.2 | 80.7 NM_005242.3 |
| 78.2 | 78.6 | 68.2 | 84.1 NM_004101.2 |
| 114.9 | 120.8 | 100.1 | 113.4 NM_003950.2 |
| 166.4 | 136 | 144.8 | 171.7 NM_001993.2 |
| 99.3 | 97.4 | 89.4 | 92.9 NM_000130.2 |
| 86.7 | 80.2 | 81.9 | 88.8 NM_000131.2 |
| 103.9 | 102 | 88.7 | 85.3 NM_000131.3 |
| 95.1 | 104.1 | 79.8 | 81.1 NM_000131.3 |
| 96.2 | 98.7 | 93.8 | 99.8 NM_019863.2 |
| 86.4 | 93.4 | 90.7 | 100.8 NM_000132.2 |
| 83 | 80.4 | 86.1 | 81.9 NM_019863.2 |
| 406.8 | 293.4 | 224.2 | 209 NM_012151.3 |
| 93.5 | 88.3 | 81.2 | 88.6 NM_001007524.1 |
| 102.4 | 101.4 | 99.4 | 101.6 NM_000133.2 |
| 81 | 75.6 | 83.6 | 79.9 NM_024306.2 |
| 109.1 | 114 | 93.9 | 101.4 NM_001441.1 |
| 90.7 | 85.1 | 85.9 | 83.2 NM_001443.1 |
| 113.4 | 104.3 | 93.7 | 93.2 NM_000134.2 |
| 88.7 | 82.6 | 86 | 91.6 NM_004102.3 |
| 89.2 | 74.3 | 86.9 | 78.1 NM_001442.1 |
| 99.1 | 86.2 | 88.1 | 89.6 NM_001444.1 |
| 102.7 | 100.9 | 92.6 | 95.4 NR_002935.1 |
| 87.4 | 91 | 79.6 | 89.2 NM_001445.1 |
| 87.3 | 85.1 | 83.1 | 87 NM_001445.1 |
| 109.3 | 98.1 | 85.4 | 101.9 NM_001446.3 |
| 627.2 | 529 | 524.2 | 379.3 NM_003824.2 |
| 1069.3 | 907.4 | 840.6 | 925.2 NM_013402.3 |
| 129.3 | 134.9 | 137.9 | 131.7 NM_004265.2 |
| 98 | 85.1 | 86.5 | 86.7 NM_021727.3 |
| 86.2 | 86.4 | 74.4 | 84.2 NM_178128.2 |
| 788 | 692.5 | 663.5 | 530.7 NM_131917.1 |
| 616.3 | 475.1 | 445.3 | 392.4 NM_007051.2 |
| 571.3 | 648.7 | 619.2 | 436.1 NM_000137.1 |
| 216.3 | 156.5 | 174 | 161.8 NM_031208.1 |
| 158.9 | 125.3 | 128.7 | 126.8 NM_001018104.1 |
| 88.6 | 87.5 | 80.8 | 97.8 NM_001018104.1 |
| 112.3 | 109.4 | 108.4 | 90.3 NM_016044.1 |
| 229.5 | 223.2 | 240.4 | 186.7 NM_199336.1 |
| 94.5 | 84.3 | 75 | 87.8 NM_001033032.1 |
| 93.6 | 71.1 | 77.8 | 99.5 NM_001033031.1 |
| 82.3 | 87.7 | 83.1 | 92.7 NM_018147.2 |
| 96.8 | 91.2 | 90.2 | 96.4 NM_001033030.1 |
| 255.5 | 171.1 | 146.6 | 156.8 NM_001033030.1 |

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| 91.1 | 99.4 | 88.3 | 87.9 NM_012306.2 |
| 91.1 | 98.3 | 88.6 | 85.5 NM_005449.3 |
| 99.2 | 112.2 | 95.3 | 93 NM_182641.2 |
| 118.5 | 113.3 | 113.1 | 117.1 NM_004459.5 |
| 101.3 | 117.3 | 103.1 | 113.9 NM_004459.5 |
| 212.1 | 184.6 | 155.9 | 176.4 NM_145253.1 |
| 191.6 | 177.1 | 157.5 | 149.9 NM_182565.2 |
| 81.1 | 82.7 | 83.8 | 80.2 NM_181709.2 |
| 322.1 | 357.7 | 361.1 | 322.6 NM_182705.1 |
| 129.4 | 117.1 | 116.1 | 84.4 NM_001035254.1 |
| 91 | 91.4 | 89.3 | 91.2 NM_001035254.1 |
| 316.5 | 239.6 | 250.4 | 191.9 NM_001010883.1 |
| 307.5 | 233.1 | 221.2 | 251.2 NM_031452.2 |
| 1021 | 922.7 | 891 | 738.8 NM_032837.1 |
| 149.7 | 174.7 | 121.9 | 138.4 NM_019018.1 |
| 511.2 | 366.6 | 368.8 | 277 NM_138348.3 |
| 82.3 | 81.7 | 84.1 | 76.8 NM_007177.1 |
| 967.5 | 816.8 | 646.9 | 606 NM_031453.2 |
| 75.4 | 80.4 | 75.9 | 82.1 NM_031213.2 |
| 376.2 | 341 | 297.7 | 175 NM_001080422.1 |
| 130.1 | 108.6 | 111.6 | 122.8 NM_001080422.1 |
| 120.2 | 114.6 | 123.9 | 103 NM_144671.2 |
| 113.7 | 101.2 | 100.7 | 96.7 NM_001002034.1 |
| 94.8 | 75.9 | 86.3 | 82.7 NR_002183.1 |
| 92.8 | 93 | 90.6 | 87.3 NR_002199.1 |
| 159.1 | 151.8 | 132.9 | 146.3 NR_002198.2 |
| 89.8 | 85.5 | 80.5 | 84.7 NM_001077710.1 |
| 745.8 | 1119.9 | 910.4 | 648.7 NM_022074.2 |
| 584.8 | 620.7 | 491.8 | 515.3 NM_022074.2 |
| 106 | 105.8 | 104.6 | 104.2 NM_198947.1 |
| 96.4 | 88 | 83.3 | 87.7 NM_001008901.1 |
| 86.7 | 89.3 | 84.1 | 86.8 NM_176791.3 |
| 1206.6 | 1198.4 | 940.1 | 812.9 NM_144594.1 |
| 129.7 | 127.6 | 124.7 | 121.1 NM_022760.3 |
| 145.6 | 144.1 | 149 | 109.6 NM_138371.1 |
| 1761.2 | 1715.8 | 2385.4 | 2095.1 NM_145280.3 |
| 2154.2 | 1751.9 | 1375.4 | 1104 NM_014612.3 |
| 96.8 | 91.1 | 79 | 79.3 NM_017848.3 |
| 106.5 | 95.6 | 77.9 | 96.9 NM_138333.3 |
| 621.9 | 564.2 | 500.6 | 597.7 NM_145284.3 |
| 97.6 | 91.3 | 87.1 | 91.9 NM_138819.1 |
| 97 | 94.5 | 93.8 | 89.8 NM_199138.1 |
| 664.9 | 361.8 | 400 | 243.8 NM_138401.2 |
| 105.1 | 98.7 | 88.3 | 98 NM_001011703.1 |
| 83.6 | 88.8 | 91 | 77.9 NM_001011703.1 |
| 85.5 | 86.6 | 87 | 84.2 NM_032581.2 |
| 94.8 | 105.5 | 85.9 | 91.6 NM_173822.1 |
| 89.1 | 84.8 | 79.6 | 96.8 NM_001078172.1 |
| 94.4 | 93.4 | 83.2 | 86.8 NM_001078173.1 |
| 92.3 | 86.3 | 86.1 | 85.2 NM_001035534.1 |

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| 147.8 | 119.7 | 99.4 | 94.5 NM_001035534.1 |
| 118 | 128.2 | 122.4 | 108.4 NM_006683.3 |
| 99.8 | 98.8 | 97.5 | 88.7 NM_022360.3 |
| 179.2 | 169.2 | 156.4 | 163.5 NM_030809.1 |
| 95.2 | 87.4 | 81.3 | 86.3 NM_024969.2 |
| 84.7 | 78.2 | 80.1 | 87.9 NM_001015045.1 |
| 86.1 | 84.8 | 83.7 | 90.4 NM_014883.2 |
| 91.7 | 84.7 | 82.7 | 91.8 NM_014883.2 |
| 91.7 | 82.8 | 79.8 | 81.8 NM_198215.2 |
| 94.6 | 78 | 77.4 | 84.7 NM_198215.2 |
| 89.9 | 81.6 | 71.1 | 88.6 NM_198215.2 |
| 228.5 | 218.1 | 199.6 | 192.7 NM_032036.2 |
| 97.5 | 114.5 | 104.2 | 96.7 NM_145249.1 |
| 186.5 | 195.4 | 164.3 | 155.9 NM_016078.3 |
| 355.2 | 398.4 | 296.6 | 428.1 NM_016078.3 |
| 100.6 | 101.5 | 96.7 | 97.4 NM_145301.1 |
| 91.9 | 81.4 | 90.5 | 89.3 NM_213609.2 |
| 90.5 | 90.4 | 85.6 | 94.7 NM_178539.3 |
| 88.5 | 78.8 | 82.9 | 86 NM_001004440.1 |
| 96.7 | 89.2 | 71 | 84.4 NM_182759.2 |
| 73.9 | 76.1 | 69.3 | 80.1 NM_182759.2 |
| 92.8 | 105.7 | 109.6 | 86 NM_182522.3 |
| 100.8 | 84.8 | 82.4 | 95.2 NM_182522.3 |
| 93.1 | 95.7 | 102.1 | 101.7 NM_001005527.1 |
| 91.5 | 84.7 | 86.3 | 88.9 NM_015381.3 |
| 90.2 | 86.3 | 90 | 84.6 NM_017565.2 |
| 715.3 | 678.8 | 550.2 | 411.5 NM_014864.2 |
| 95.2 | 91.9 | 97 | 89.3 XM_928334.1 |
| 274.9 | 136.3 | 137.7 | 123.4 NM_020223.1 |
| 113.2 | 112 | 102 | 107.7 NM_020223.1 |
| 107.4 | 115 | 97.9 | 108.3 NM_015262.1 |
| 86 | 86.8 | 75.5 | 81.4 NM_001045477.1 |
| 91.6 | 85.2 | 83.7 | 93.6 NM_001029888.1 |
| 211.1 | 180.4 | 148.5 | 143.2 NM_152644.2 |
| 128.4 | 125.2 | 110.4 | 107.3 NM_015916.3 |
| 131.7 | 108.1 | 106.4 | 119.6 NM_001001412.1 |
| 89 | 87.7 | 75.1 | 95 NM_203392.1 |
| 87.9 | 88.4 | 82.4 | 87.9 XM_935767.1 |
| 110.3 | 105.8 | 99.6 | 116.4 NM_017645.3 |
| 474.1 | 289.6 | 244.7 | 251.5 NM_182620.1 |
| 156.7 | 131.1 | 143 | 165.3 NM_019054.1 |
| 181.9 | 111 | 138.7 | 130.6 NM_198076.4 |
| 1303.7 | 1335 | 1455.5 | 939.2 NM_014745.1 |
| 121.3 | 121.1 | 136 | 106.7 NM_022068.1 |
| 782.1 | 720.5 | 604 | 443.8 NM_021806.1 |
| 88.4 | 77.6 | 84.3 | 87 NM_058186.3 |
| 92.2 | 82 | 75.5 | 91.3 NM_206964.1 |
| 253.8 | 258.4 | 207.8 | 197.3 NM_014888.1 |
| 241.3 | 219.1 | 170.1 | 197 NM_001040020.1 |
| 84 | 81.7 | 88.7 | 88.1 NM_138805.2 |

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| 224.1 | 149.3 | 171.4 | 122.9 | NM_033088.2 |
| 168.4 | 268.2 | 320.9 | 241.5 | NM_020704.1 |
| 1590.7 | 1183.4 | 1214.2 | 817.2 | NM_153690.4 |
| 86.1 | 89.6 | 93.4 | 98.2 | NM_207334.1 |
| 79.1 | 94.8 | 91.8 | 91.7 | NM_148894.1 |
| 543.5 | 552 | 493.1 | 432.2 | NM_138369.1 |
| 714.6 | 687.5 | 575.6 | 505.5 | NM_207009.2 |
| 93.5 | 96 | 101.4 | 89.8 | NM_018472.1 |
| 8344.7 | 9729.2 | 10155.4 | 6931.7 | NM_017633.1 |
| 107.7 | 92.8 | 88.2 | 95.2 | NM_052943.2 |
| 115.5 | 168.8 | 167.9 | 133.6 | NM_017709.2 |
| 90.5 | 77.7 | 75.6 | 88.2 | NM_152630.2 |
| 81.7 | 83.6 | 89.7 | 97.9 | NM_203408.1 |
| 83.7 | 84.9 | 70.1 | 77 | NM_152631.1 |
| 92.2 | 81.3 | 90.6 | 92.1 | NM_001013736.1 |
| 315.8 | 350.6 | 285.3 | 283.8 | NM_001014286.1 |
| 98.4 | 83.1 | 74.4 | 82.6 | NM_017569.2 |
| 98.1 | 101.9 | 85.8 | 94.6 | NM_030797.1 |
| 397.3 | 259.9 | 280.2 | 261.9 | NM_016623.3 |
| 2248.4 | 2583.1 | 2348.3 | 1290.3 | NM_004699.1 |
| 105.6 | 93.6 | 87.3 | 99.8 | NM_012135.1 |
| 110.4 | 113.8 | 109.8 | 103.9 | NM_017856.1 |
| 80.7 | 96.5 | 97.7 | 83.3 | NM_001013622.1 |
| 99 | 94.4 | 89.6 | 90.5 | NM_014661.3 |
| 1028.4 | 806.5 | 913.1 | 388.2 | NM_016605.1 |
| 124 | 106.8 | 88.4 | 102 | NM_138419.2 |
| 81.4 | 87.3 | 80.4 | 93.5 | NM_152315.1 |
| 91.1 | 80 | 88.7 | 92 | NM_182495.3 |
| 182.2 | 193.7 | 161.6 | 176.6 | NM_145037.1 |
| 82.7 | 90.1 | 89.2 | 98.1 | NM_017678.1 |
| 91.1 | 85.5 | 86.1 | 89.8 | NM_001077639.1 |
| 80.4 | 76 | 76.2 | 75.6 | NM_001077639.1 |
| 253.7 | 169.5 | 144.4 | 131.1 | NM_024792.1 |
| 673.6 | 575 | 536.1 | 294.8 | NM_152274.2 |
| 105.1 | 108.8 | 98.1 | 109.6 | NM_022751.1 |
| 96.3 | 87.4 | 87 | 87.5 | NM_021165.1 |
| 91 | 87 | 77.5 | 87.5 | NM_199051.1 |
| 935.4 | 903.1 | 793.9 | 599 | NM_015292.1 |
| 3834.2 | 4036.2 | 3997.2 | 3579.6 | NM_020728.1 |
| 129 | 102.7 | 102.1 | 106.4 | NM_031913.1 |
| 404.6 | 429.6 | 495.9 | 557.3 | NM_018379.2 |
| 105.8 | 100.2 | 97 | 116 | NM_019092.1 |
| 283 | 132 | 111.6 | 105.1 | NM_019013.1 |
| 616.5 | 545.3 | 540.5 | 275 | NM_024519.2 |
| 138.9 | 137.9 | 132.5 | 110 | NM_001006605.1 |
| 393.4 | 308.5 | 320.2 | 209.2 | XM_942503.1 |
| 76.3 | 83.8 | 84.6 | 80 | NM_152421.2 |
| 80.1 | 78.7 | 83.5 | 91.6 | NM_017938.2 |
| 103.1 | 99.1 | 102.1 | 91.4 | NM_182614.2 |
| 89.7 | 86.9 | 92.8 | 98.8 | NM_153606.1 |

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| 107.9 | 99 | 94.1 | 104.9 NM_153364.1 |
| 277.1 | 188.4 | 132.9 | 193.4 NM_207418.2 |
| 95 | 85.7 | 85.9 | 83 NM_198549.1 |
| 138.7 | 150.7 | 138.1 | 144 NM_032809.2 |
| 104.4 | 98.1 | 96.2 | 105.4 NM_152660.1 |
| 265.4 | 199.2 | 184.6 | 198.1 NM_144664.3 |
| 93 | 82.5 | 79.6 | 84.8 NM_024522.1 |
| 108 | 111.4 | 104.6 | 105.9 NM_173688.1 |
| 141.6 | 128.3 | 111.8 | 113.3 NM_033387.2 |
| 92.3 | 92.6 | 89.3 | 100.2 NM_001017961.1 |
| 558.9 | 726.2 | 713.8 | 420.6 NM_182752.3 |
| 108.2 | 101.8 | 98.9 | 106.5 NM_198485.1 |
| 230.8 | 254.9 | 315.7 | 250.5 NM_001039841.1 |
| 99.7 | 112 | 112 | 104.2 NM_173642.1 |
| 102.5 | 96.5 | 95.9 | 109.2 NM_020734.1 |
| 125.2 | 106 | 88 | 84.6 NM_152450.1 |
| 95.8 | 95.8 | 101.1 | 94.7 NM_152548.1 |
| 86.6 | 90.7 | 89.5 | 99 NM_144713.1 |
| 476 | 523.1 | 374.4 | 400.7 NM_018145.1 |
| 90.6 | 95.7 | 91.7 | 98.1 NM_207006.1 |
| 81.6 | 78.5 | 81.1 | 77.9 NM_032899.4 |
| 93.4 | 89.3 | 82.5 | 81.6 NM_207006.1 |
| 82.4 | 89.8 | 80.5 | 84.8 NM_017708.1 |
| 90.6 | 95.7 | 96.3 | 100.1 NM_138435.1 |
| 88.6 | 88.5 | 86.7 | 92 NM_001039999.2 |
| 94.2 | 88.1 | 86.4 | 90.5 NM_145175.1 |
| 336.7 | 270.1 | 251 | 250.9 NM_174911.3 |
| 298.8 | 175.9 | 165.2 | 161.9 NM_201400.1 |
| 174.5 | 144.4 | 127.9 | 116.5 NM_201598.1 |
| 265.8 | 301.8 | 258.9 | 242 NM_198552.1 |
| 1110.9 | 1138 | 970.8 | 985.6 NM_198552.1 |
| 314.6 | 242.8 | 236.3 | 184.7 NM_152832.1 |
| 113 | 124.1 | 103.8 | 119.8 NM_016255.1 |
| 106.4 | 105.4 | 99.5 | 103.9 NM_018088.2 |
| 267.2 | 179.9 | 164 | 163.5 NM_144963.1 |
| 81.2 | 78.7 | 75.6 | 71 NM_198491.1 |
| 5237.7 | 4230.4 | 4077 | 3195.2 NM_032231.4 |
| 344 | 332.8 | 341.7 | 270.4 NM_001014812.1 |
| 985.7 | 683.6 | 623.3 | 405.7 NM_016062.1 |
| 447.5 | 357.6 | 317.6 | 269.1 NM_015475.3 |
| 87.2 | 84.6 | 78.5 | 92.1 NM_001042429.1 |
| 101 | 155 | 135.3 | 129.3 NM_173611.2 |
| 159.2 | 147.2 | 158.8 | 141.1 NM_174905.2 |
| 87.5 | 97.2 | 82 | 90.3 NM_174951.2 |
| 90.6 | 85.7 | 78.6 | 81.5 NM_205849.1 |
| 98.7 | 94.2 | 91.2 | 93 NM_174901.4 |
| 97.3 | 102.9 | 102.4 | 95.3 NM_000135.2 |
| 91.4 | 85.6 | 89.1 | 77.1 NM_001018112.1 |
| 102.3 | 99.5 | 87.7 | 95.8 NM_001018112.1 |
| 152.8 | 127.8 | 116.8 | 124 NM_001018113.1 |

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| 145.2 | 132.7 | 127.2 | 120 NM_001018113.1 |
| 96.5 | 99.9 | 92.3 | 100.5 NM_000136.2 |
| 873.8 | 998.7 | 830.2 | 875.5 NM_001018115.1 |
| 112.3 | 125.7 | 131.9 | 116.5 NM_033084.3 |
| 126.5 | 126.1 | 107.8 | 114.8 NM_001018115.1 |
| 464.3 | 551.7 | 559.7 | 292 NM_021922.2 |
| 94.5 | 85.5 | 79.3 | 90.8 NM_022725.2 |
| 641.1 | 325.4 | 333.5 | 206.1 NM_004629.1 |
| 103.1 | 89.9 | 95.3 | 97 NM_018062.2 |
| 107.9 | 94.8 | 79.4 | 92.5 NM_020937.1 |
| 91.9 | 93.9 | 98.3 | 89.3 NM_145235.2 |
| 104.8 | 101.2 | 89.1 | 101.5 NM_004460.2 |
| 100.6 | 94.6 | 85.8 | 89.1 NM_001001715.1 |
| 78.6 | 88.9 | 89.2 | 90.1 NM_001001715.1 |
| 130 | 102.7 | 96.7 | 89.5 NM_005766.2 |
| 120.1 | 117.7 | 116.5 | 110.1 NM_014808.1 |
| 258.9 | 242.5 | 229.1 | 197.7 NM_006567.2 |
| 124.2 | 124.1 | 125.3 | 120.4 NM_005687.3 |
| 411.4 | 262.9 | 239.4 | 190.4 NM_004461.1 |
| 92.7 | 82.3 | 83.4 | 95 NM_152871.1 |
| 99.3 | 79.8 | 81.9 | 84.6 NM_152877.1 |
| 97 | 88.1 | 92.7 | 89.7 NM_000639.1 |
| 6646.6 | 4978.8 | 3847.3 | 2284 NM_004104.4 |
| 396.7 | 363.6 | 404.5 | 230 NM_033015.2 |
| 219.3 | 208.4 | 180 | 181.8 NM_006712.3 |
| 236.2 | 203.6 | 215 | 198.4 NM_006712.3 |
| 154.3 | 122.5 | 123.1 | 129.4 NM_014929.2 |
| 257.1 | 228.2 | 190.2 | 185.4 NM_024091.2 |
| 362.1 | 441.4 | 383.5 | 399 NM_005245.3 |
| 88.7 | 85.2 | 75.5 | 82.4 NM_001447.1 |
| 80.5 | 77.9 | 87.3 | 89.3 NM_024582.2 |
| 90 | 88.6 | 89.6 | 82.4 NM_033085.2 |
| 14735.2 | 11275.7 | 11552 | 8271.4 NM_001997.3 |
| 102.7 | 100.6 | 97.1 | 98.1 NM_001080542.1 |
| 2289 | 1648.4 | 1600 | 875.5 NM_001436.2 |
| 89.3 | 95.1 | 88.3 | 79.5 NM_017556.2 |
| 113.9 | 99.5 | 90.7 | 97.3 NM_001024215.1 |
| 92.1 | 82.4 | 83.8 | 86.2 NM_006487.2 |
| 120.4 | 91.8 | 91.9 | 97.2 NM_001996.2 |
| 289.7 | 128.2 | 128 | 110.2 NM_006486.2 |
| 89.7 | 82.9 | 85.6 | 90.2 NM_006485.2 |
| 101.5 | 95 | 82.4 | 91.9 NM_001996.2 |
| 84.7 | 82.3 | 89.7 | 81.6 NM_001004019.1 |
| 90.3 | 92.4 | 95.6 | 82.9 NM_001998.2 |
| 84 | 91.4 | 82.7 | 76.3 NM_001004019.1 |
| 114.2 | 102.7 | 96.8 | 100.4 NM_006329.2 |
| 96.1 | 87.7 | 92.1 | 95.8 NM_000138.2 |
| 511.4 | 904.2 | 862.4 | 679.5 NM_001999.3 |
| 97.9 | 97.8 | 91.9 | 95.2 NM_032447.3 |
| 380.5 | 246.6 | 218 | 189.4 NM_000507.2 |

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| 96.2 | 89.2 | 89.7 | 104.8 NM_003837.2 |
| 131.5 | 123.1 | 115.2 | 115.2 NM_022452.1 |
| 95.9 | 78.1 | 76.3 | 82.7 NM_032590.3 |
| 2813.4 | 2253.9 | 2208.1 | 1626 NM_032590.3 |
| 90.5 | 94.5 | 90 | 79.9 NM_001005366.1 |
| 139.1 | 123.3 | 133.7 | 97.6 NM_017703.1 |
| 92.4 | 97.2 | 80.9 | 95.4 NM_145032.2 |
| 92.1 | 103.5 | 91.1 | 95.5 NM_152441.1 |
| 233.8 | 204.4 | 183.8 | 156.7 NM_024326.2 |
| 99.3 | 90.9 | 87.2 | 90.8 NM_153350.2 |
| 98.1 | 112 | 108 | 107.4 NM_022824.1 |
| 88.6 | 89.5 | 92.3 | 95.5 NM_024963.2 |
| 93.7 | 91.7 | 89.7 | 103.6 NM_012157.2 |
| 258.2 | 246.9 | 218.7 | 163.3 NM_032875.1 |
| 90.3 | 95.2 | 83.5 | 89.3 NM_012159.1 |
| 81.8 | 86.8 | 81.9 | 91.8 NM_203373.1 |
| 81.4 | 84.6 | 84.9 | 85.4 NM_012158.1 |
| 90.9 | 90.7 | 89.3 | 88.8 NM_012160.3 |
| 90 | 89 | 85.7 | 80.3 NM_033535.2 |
| 124.5 | 93.6 | 107.3 | 99.1 NM_012161.2 |
| 712.6 | 620.5 | 521.4 | 461.4 NM_012161.2 |
| 464.3 | 308.6 | 277.5 | 317.6 NM_024555.3 |
| 84.6 | 81.8 | 84.6 | 81.6 NM_012304.3 |
| 98.5 | 98.5 | 78.7 | 90.4 NM_018378.2 |
| 93.9 | 94.1 | 82.6 | 92.4 XM_933940.1 |
| 173 | 144.3 | 144.4 | 142.2 NM_012166.2 |
| 147.9 | 144.3 | 127.7 | 122.8 NM_018693.2 |
| 937.7 | 877.8 | 989.4 | 795 NM_025133.3 |
| 95.9 | 103.1 | 96.1 | 90.2 NM_012167.1 |
| 187.8 | 184.5 | 141.6 | 161.1 NM_012167.1 |
| 334.1 | 183.6 | 178.4 | 146.6 NM_152676.1 |
| 113.9 | 93.3 | 85.7 | 95.5 NM_172366.2 |
| 80.7 | 72.6 | 72.5 | 84 NM_024907.5 |
| 93.3 | 82.9 | 89.1 | 89.4 NM_148169.1 |
| 81.7 | 86.6 | 79.1 | 86.5 NM_024907.5 |
| 87.1 | 97.4 | 86.6 | 87.1 NM_032807.3 |
| 396.7 | 384.1 | 397.2 | 257.4 NM_032807.3 |
| 89.7 | 92.5 | 90.3 | 95.9 NM_012168.4 |
| 138 | 133.9 | 116 | 103.6 NM_033624.2 |
| 411.5 | 298.5 | 299.5 | 231.5 NM_015002.2 |
| 161.7 | 130.8 | 116.9 | 120.5 NM_147188.1 |
| 82.5 | 80.2 | 62.4 | 75.6 NM_012170.2 |
| 340.3 | 262.5 | 262.1 | 209.5 NM_012170.2 |
| 102.9 | 95.4 | 90.1 | 88 NR_003136.1 |
| 84.1 | 83.7 | 85.3 | 87.5 NM_033506.1 |
| 86.9 | 87.2 | 86.4 | 96.6 NM_033506.1 |
| 96.1 | 83.8 | 84.1 | 81.8 NM_012172.3 |
| 88.4 | 82.3 | 78.1 | 76.3 NM_183420.1 |
| 94.8 | 89.1 | 78.7 | 86.1 NM_178820.3 |
| 991.7 | 657.4 | 616.9 | 513.7 NM_015176.1 |

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| 105 | 90.4 | 87 | 96.4 NM_012175.3 |
| 250.5 | 203.6 | 153.1 | 156.8 NM_033406.2 |
| 109.1 | 119.3 | 115.1 | 99.1 NM_033406.2 |
| 278.7 | 187.4 | 229.6 | 234.5 NM_032145.4 |
| 308.6 | 208.4 | 217.4 | 160.8 NM_024735.2 |
| 122.7 | 106.6 | 117.1 | 107.1 NM_058229.2 |
| 102.3 | 91.9 | 102.2 | 94.8 NM_148177.1 |
| 177.8 | 174 | 169.9 | 133.2 NM_148177.1 |
| 910.8 | 727.5 | 705.1 | 557.4 NM_203301.1 |
| 414.7 | 391.8 | 358.2 | 311.4 NM_017943.2 |
| 83 | 100.8 | 75.7 | 71.8 NM_174899.3 |
| 103.9 | 100.4 | 91.8 | 113.4 NM_205836.1 |
| 128.4 | 110.9 | 112.2 | 115.7 NM_030793.3 |
| 93.3 | 92.7 | 86.6 | 94.8 NM_153230.1 |
| 736.4 | 619 | 546.7 | 418.7 NM_012176.2 |
| 142.5 | 119.8 | 107.9 | 120.4 NM_012176.2 |
| 84.1 | 84.6 | 83.4 | 91.5 NM_016298.1 |
| 78.9 | 74.9 | 74.5 | 82 NM_018994.1 |
| 119.9 | 107.2 | 126.1 | 99.2 NM_001029860.1 |
| 122.2 | 120.5 | 104 | 118.4 NM_001029860.1 |
| 96.8 | 100.8 | 96.8 | 94.1 NM_183412.2 |
| 91.7 | 93.2 | 88.1 | 71.1 NM_033182.5 |
| 96.5 | 87.2 | 95.1 | 90.1 NM_001014765.1 |
| 153.7 | 164.5 | 158.7 | 159.3 NM_001080469.1 |
| 92.7 | 94.2 | 84.8 | 93 NM_001008777.1 |
| 141.8 | 135.6 | 114.9 | 116.9 NM_012177.2 |
| 228.6 | 228.7 | 203.1 | 182.9 NM_018438.4 |
| 299.9 | 208 | 187.3 | 169.1 NM_012179.3 |
| 119.6 | 91.7 | 106.9 | 97.8 NM_001033024.1 |
| 612.3 | 521.4 | 473.1 | 396 NM_012179.3 |
| 224.1 | 209.4 | 200.9 | 161.6 NM_012180.2 |
| 96.9 | 87.7 | 89 | 90 NM_012347.3 |
| 179.8 | 123.9 | 107.4 | 116.3 NM_033480.1 |
| 84.5 | 86 | 81.7 | 91.5 NM_033481.2 |
| 89.7 | 87.2 | 85.8 | 81 NM_033481.2 |
| 78.6 | 90.1 | 83.2 | 91.9 NM_031456.2 |
| 92.2 | 90.3 | 89.3 | 88.2 NM_033644.2 |
| 92 | 97.4 | 90.1 | 96.2 NM_012300.2 |
| 1184.6 | 865.9 | 794.2 | 544.5 NM_033645.2 |
| 80.6 | 92.7 | 76.9 | 85.7 NM_207102.1 |
| 235.3 | 207.5 | 180.2 | 154.8 NM_012164.2 |
| 230 | 173.1 | 193.9 | 131 NM_022039.3 |
| 382.3 | 382.8 | 349.4 | 325.4 NM_178225.1 |
| 107.3 | 135.4 | 136.6 | 128.6 NM_033632.2 |
| 94.6 | 98.2 | 90.4 | 93.7 NM_018315.3 |
| 367.6 | 287.4 | 256 | 310.6 NM_033632.2 |
| 81.4 | 81.8 | 83.8 | 86.4 NM_001013415.1 |
| 90.4 | 97.6 | 100.8 | 95.7 NM_153348.2 |
| 91.2 | 96.3 | 93 | 92.4 NM_153348.2 |
| 232.2 | 190.9 | 187.1 | 171.2 NM_012174.1 |

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| 205 | 164.7 | 178.4 | 115.1 NM_032301.1 |
| 91.2 | 89.9 | 86.2 | 91.2 NM_032029.2 |
| 628.5 | 726.3 | 864.1 | 933.5 NM_133279.1 |
| 91 | 90 | 91.1 | 84.5 NM_133271.1 |
| 99.1 | 97.8 | 88.4 | 105.2 NM_133280.1 |
| 8822.3 | 6003.2 | 4638.1 | 4751.3 NM_004106.1 |
| 115.1 | 89.2 | 91.6 | 93.7 NM_002002.3 |
| 152 | 133.4 | 130.2 | 139.4 NM_015962.4 |
| 77.5 | 89.6 | 80.5 | 74.6 XM_940656.1 |
| 89.5 | 102.8 | 97 | 93.8 NM_003890.1 |
| 444.3 | 244 | 239.9 | 218.3 NM_000566.2 |
| 1383.4 | 660.4 | 535.1 | 392.8 NM_001017986.1 |
| 1452.8 | 697.5 | 659.3 | 443.9 NM_001004340.1 |
| 226.2 | 253.1 | 235.3 | 171.3 NM_021642.2 |
| 301.7 | 252.5 | 240.9 | 193.1 NM_021642.2 |
| 80 | 125.4 | 123.2 | 118.2 NM_004001.3 |
| 86.9 | 82.7 | 79.9 | 86.6 NM_001005411.2 |
| 74.6 | 79.4 | 71.7 | 85.4 NM_000569.6 |
| 119.5 | 124.4 | 105.3 | 97.2 NM_000570.2 |
| 1556 | 1743.1 | 1601.9 | 1375.4 NM_004107.3 |
| 139.8 | 118.4 | 111.4 | 102.2 NM_015122.1 |
| 108.7 | 119.2 | 114 | 123.4 NM_138782.1 |
| 84.3 | 104.5 | 96.8 | 92.6 NM_033449.1 |
| 262 | 258.3 | 233.2 | 164.8 NM_014824.1 |
| 3687.2 | 4631.2 | 6622.8 | 4162.2 NM_006731.1 |
| 113 | 96.6 | 103.3 | 105.1 NM_006731.1 |
| 96.6 | 86.2 | 81.5 | 88.1 NM_002003.2 |
| 88.9 | 76.3 | 84.8 | 84.2 NM_004108.2 |
| 90 | 80.5 | 82 | 95.6 NM_004108.2 |
| 73.6 | 78 | 79.9 | 85.7 NM_173452.1 |
| 93.7 | 81.3 | 76 | 81.7 NM_173452.1 |
| 85.1 | 88.2 | 89.8 | 98.8 NM_052938.3 |
| 83.4 | 82.9 | 79 | 79.7 NM_138738.2 |
| 101.7 | 96.2 | 101.6 | 104.6 NM_138738.2 |
| 89.7 | 90 | 74.8 | 83.4 NM_030764.2 |
| 90 | 85.3 | 80.7 | 89.3 NM_001024667.1 |
| 95.3 | 96.9 | 89 | 89.6 NM_052939.3 |
| 80.9 | 77.5 | 74.2 | 82.6 NM_031282.1 |
| 106.6 | 94 | 95.2 | 96.1 NM_031281.1 |
| 95.1 | 85.3 | 81.4 | 90.5 NM_001004310.1 |
| 83.1 | 83.8 | 79.2 | 82.2 NM_032738.3 |
| 215.1 | 141 | 126.6 | 117.7 NM_001002901.2 |
| 6511.4 | 4340.3 | 4709.6 | 3524.5 NM_004462.3 |
| 99.5 | 98.2 | 95.2 | 88.8 NM_004109.3 |
| 96.6 | 92.6 | 86.7 | 85.7 NM_024417.1 |
| 87.1 | 89.2 | 79.7 | 80.3 NM_004110.3 |
| 108 | 95.3 | 91.1 | 99.4 NM_001012515.1 |
| 276.2 | 324.4 | 304.3 | 218.6 NM_000140.2 |
| 1227 | 891.1 | 847.5 | 470.5 NM_018708.1 |
| 204 | 194.6 | 162.3 | 174.3 NM_015322.3 |

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| 324.8 | 398.2 | 270.4 | 333.2 NM_020177.2 |
| 3943.7 | 2753.5 | 2318.2 | 1654.2 NM_004111.4 |
| 113.2 | 130.9 | 115.3 | 115.4 NM_005246.1 |
| 259.2 | 158.3 | 158.7 | 139.8 NM_013451.2 |
| 144.7 | 106.1 | 98.4 | 92.2 NM_013451.2 |
| 94.4 | 92.1 | 91.2 | 85.8 NR_001442.2 |
| 99 | 93.4 | 95.2 | 98.5 NM_152898.2 |
| 2533.3 | 1696.7 | 1738.6 | 867.9 NM_002005.2 |
| 91.8 | 88.9 | 99.6 | 84.7 NM_014375.2 |
| 95.7 | 81.5 | 84.3 | 93.3 NM_017521.2 |
| 128.6 | 95 | 109.7 | 110 NM_022549.2 |
| 180.3 | 195.4 | 176.9 | 144.1 NM_022549.2 |
| 428.4 | 275.9 | 282.9 | 291.5 NM_005103.3 |
| 1296.8 | 1498.2 | 1003.9 | 1426.5 NM_005102.1 |
| 2613.1 | 2518.9 | 1840.4 | 2193.1 NM_005102.1 |
| 95.7 | 98.5 | 96.1 | 88.3 NM_005303.1 |
| 97.4 | 100.2 | 104.1 | 90.7 NM_005306.1 |
| 95.6 | 100.8 | 96.9 | 95.2 NM_005304.2 |
| 83.2 | 81.3 | 83.8 | 89.4 NM_000508.3 |
| 148.9 | 137.6 | 144.1 | 139.5 NM_021871.2 |
| 82.5 | 78.9 | 81.2 | 81 NM_021871.2 |
| 91.2 | 86.7 | 81.8 | 89.8 NM_005141.2 |
| 117.2 | 89 | 98.8 | 97.5 NM_004463.2 |
| 95.9 | 82.2 | 81.8 | 87.7 NM_173558.2 |
| 752.3 | 680 | 875 | 337.6 NM_033086.1 |
| 87.2 | 88.1 | 81.4 | 93.6 NM_139241.1 |
| 100.3 | 98.3 | 95.9 | 95.3 NM_152536.2 |
| 96.1 | 82.9 | 86 | 95.9 NM_018351.2 |
| 97.9 | 97.2 | 94.4 | 94.1 NM_033136.1 |
| 81.6 | 89.9 | 81.1 | 82.2 NM_000800.2 |
| 81.4 | 90.7 | 82.1 | 89.4 NM_004465.1 |
| 106.6 | 97.9 | 94.4 | 99.2 NM_004112.2 |
| 89.6 | 88.3 | 81.9 | 83.7 NM_004113.3 |
| 95.9 | 94 | 86.1 | 85.3 NM_004113.3 |
| 88.4 | 90.6 | 76.1 | 89.4 NM_021032.2 |
| 88.4 | 85.4 | 89.5 | 89.4 NM_033642.1 |
| 79.2 | 81.4 | 73.8 | 71.5 NM_004114.2 |
| 87 | 83.8 | 75.9 | 73.7 NM_033642.1 |
| 93 | 87.9 | 93.2 | 87.6 NM_175929.1 |
| 83.2 | 83.9 | 84.1 | 82.4 NM_004115.2 |
| 79.7 | 72.3 | 83.8 | 83.5 NM_003868.1 |
| 96 | 92.2 | 98.2 | 103.8 NM_003867.2 |
| 127 | 117.4 | 133.5 | 91.8 NM_003862.1 |
| 84.3 | 87.6 | 88.3 | 91.9 NM_033649.1 |
| 76.8 | 97.4 | 88.9 | 81.5 NM_005117.2 |
| 102.4 | 95.1 | 106.6 | 89.8 NM_002006.3 |
| 104.5 | 107.8 | 103.5 | 90.3 NM_019851.1 |
| 100.9 | 101.7 | 84.1 | 96.9 NM_019113.2 |
| 98.4 | 92.1 | 84.2 | 80.7 NM_020637.1 |
| 84.8 | 88.3 | 90.2 | 88.2 NM_020638.2 |

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| 94.8 | 98.5 | 91.1 | 97.7 NM_005247.2 |
| 78.9 | 77.7 | 76.9 | 83.5 NM_002007.1 |
| 101.7 | 91.1 | 91.6 | 92.6 NM_033143.2 |
| 86.3 | 94.2 | 82 | 84.5 NM_004464.3 |
| 83.8 | 79.1 | 70.2 | 73.3 NM_020996.1 |
| 81.7 | 77.6 | 82.1 | 87.7 NM_002009.2 |
| 91.4 | 93.1 | 86 | 87.7 NM_033164.1 |
| 83.6 | 82.7 | 89 | 82.4 NM_006119.2 |
| 86.9 | 80.8 | 76 | 78.8 NM_002010.1 |
| 88.7 | 87.3 | 93.7 | 84.7 NM_005130.3 |
| 101.1 | 82.6 | 99.5 | 100.3 NM_023107.2 |
| 86.6 | 78.3 | 77.7 | 82.2 NM_023110.1 |
| 372.8 | 330 | 320.8 | 265.9 NM_007045.2 |
| 117.9 | 122.4 | 113.4 | 108 NM_015633.1 |
| 91.4 | 81.7 | 83.4 | 88.5 NM_022971.1 |
| 87.2 | 87.1 | 82.8 | 94.4 NM_000142.2 |
| 258.9 | 301.8 | 258.7 | 167.9 NM_000142.2 |
| 103.8 | 114.6 | 100.5 | 101.9 NM_213647.1 |
| 79.4 | 89.1 | 85 | 87.8 NM_022963.2 |
| 98.9 | 94.5 | 92.8 | 88.6 NM_022963.2 |
| 524.8 | 423.9 | 334.2 | 359 NM_001004358.1 |
| 140.1 | 136.6 | 121.2 | 120 NM_001004358.1 |
| 91.8 | 91.1 | 84 | 89.5 NM_000509.4 |
| 82.4 | 80 | 82.6 | 81.2 NM_000509.4 |
| 85.8 | 90.6 | 79.4 | 91 NM_021870.2 |
| 85.7 | 81.4 | 87.1 | 74.5 XM_937886.1 |
| 98.6 | 93.9 | 87 | 96 NM_201553.1 |
| 95.3 | 328.1 | 224.2 | 205.2 NM_006682.1 |
| 172.5 | 169 | 145.8 | 129.6 NM_005248.1 |
| 87 | 90.7 | 87 | 89.8 NM_001042729.1 |
| 358.3 | 332.2 | 276.4 | 176.6 NM_001042729.1 |
| 2334.8 | 1790.8 | 1465.2 | 1319.7 NM_000143.2 |
| 93.3 | 88.6 | 86.9 | 90.2 NM_002012.1 |
| 115.9 | 122.3 | 100.2 | 120.1 NM_001449.3 |
| 302.1 | 217.8 | 198.3 | 171 NM_201555.1 |
| 232.3 | 193.1 | 172.5 | 148.2 NM_001450.3 |
| 94.5 | 91.2 | 87.7 | 93.8 NM_201555.1 |
| 88.1 | 81.2 | 85.9 | 86.9 NM_201557.1 |
| 245.5 | 223.4 | 210.5 | 172.3 NM_004468.3 |
| 97.2 | 89.7 | 89.6 | 92.3 NM_020482.3 |
| 618.3 | 418.2 | 351 | 352.9 NM_013241.1 |
| 97.6 | 95.1 | 93.5 | 97.2 NM_025135.2 |
| 175.9 | 126.6 | 124.7 | 106.2 NM_032843.3 |
| 1132.4 | 775.7 | 794.2 | 463.2 NM_004214.4 |
| 230.4 | 139.9 | 121.9 | 108.3 NM_198897.1 |
| 92.1 | 95 | 75.1 | 84.9 NM_004469.2 |
| 85.5 | 79.1 | 78.9 | 83 NM_001004311.1 |
| 85.8 | 84.9 | 96.2 | 90.3 NM_018086.2 |
| 252.5 | 231.8 | 174.6 | 200.1 NM_001042762.1 |
| 308.9 | 240.3 | 211.2 | 220 NM_022116.2 |

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| 95.2 | 115.7 | 104.9 | 99 NM_015687.2 |
| 149.6 | 230.6 | 171.4 | 162.6 NM_001042459.1 |
| 93.9 | 92.1 | 83.8 | 92.4 NM_030917.2 |
| 621.2 | 445.8 | 505.9 | 378.4 NM_016068.1 |
| 93.3 | 94.3 | 86.7 | 91.2 NM_014344.2 |
| 92.9 | 88.1 | 84.7 | 84.5 NM_021939.2 |
| 152.1 | 274.7 | 335.3 | 221.3 NM_016594.1 |
| 999.1 | 1471.2 | 1743.5 | 1979.6 NM_017946.2 |
| 382.1 | 240.5 | 227.6 | 187.1 NM_054014.1 |
| 421.7 | 710.8 | 576.2 | 609.8 NM_054014.1 |
| 1289.6 | 1298.7 | 923.2 | 1043.7 NM_000801.2 |
| 94 | 87.2 | 80.4 | 80.3 NM_054033.1 |
| 248.2 | 290.3 | 280.7 | 221.5 NM_004470.2 |
| 107.7 | 96.7 | 82.4 | 84.9 NM_057092.1 |
| 141.9 | 152.8 | 135.7 | 124.6 NM_004470.2 |
| 321 | 217.2 | 262.3 | 220.7 NM_002013.2 |
| 331.5 | 147.3 | 122.4 | 99.6 NM_002014.2 |
| 491.8 | 559.4 | 520.6 | 389.6 NM_004117.2 |
| 93.4 | 92.4 | 79.8 | 85.5 NM_003602.2 |
| 94.9 | 85.7 | 91.9 | 84.1 NM_016105.2 |
| 118 | 115.1 | 104.9 | 105.7 NM_012181.3 |
| 102.7 | 97.4 | 89.7 | 102.9 NM_007270.2 |
| 467.1 | 537.7 | 520.4 | 464 NM_182827.1 |
| 134 | 128.5 | 120.4 | 111.6 NM_022110.3 |
| 79.2 | 86.3 | 80.4 | 89 NM_004118.3 |
| 130.8 | 139.6 | 157.4 | 122.6 NM_024301.3 |
| 103.9 | 103.8 | 101.7 | 94.1 NM_024301.2 |
| 513.1 | 435.8 | 384 | 552.2 NM_022145.2 |
| 89.9 | 83.5 | 86.9 | 96.2 NM_021631.1 |
| 138.6 | 130.9 | 104.3 | 99.7 NM_032683.1 |
| 95.3 | 80.9 | 86 | 91.8 NM_001017421.1 |
| 90.9 | 88.4 | 80.2 | 86.6 NM_031904.2 |
| 108.3 | 107.4 | 107.8 | 105 NM_025207.3 |
| 647.8 | 484.6 | 432.3 | 245.4 NM_201398.1 |
| 112.5 | 111.5 | 97.4 | 106.7 NM_144997.4 |
| 96.7 | 93.6 | 90.5 | 96.5 NM_144606.4 |
| 99.1 | 90.3 | 96.1 | 93.2 NM_144606.4 |
| 86.3 | 77.8 | 77 | 83.1 NM_002016.1 |
| 89.5 | 88.7 | 87.6 | 88.6 NM_001014342.1 |
| 108.8 | 91.8 | 83.7 | 101.5 NM_002017.2 |
| 288.5 | 308.7 | 281.9 | 252 NM_002018.2 |
| 86.4 | 94.3 | 80 | 97.5 NM_033206.1 |
| 538.8 | 670.9 | 484.3 | 405 NM_017969.1 |
| 494.9 | 404.2 | 340.8 | 383.4 NM_017991.3 |
| 651.5 | 524 | 388.8 | 423 NM_017994.3 |
| 142.8 | 164.6 | 188.3 | 173 NR_002940.1 |
| 104.6 | 103.1 | 103.9 | 100.4 NR_002940.1 |
| 2106 | 1673.9 | 1909.5 | 1653.2 NM_018011.2 |
| 119.1 | 123.7 | 124.3 | 97.3 NM_018013.2 |
| 241.6 | 98.9 | 103.6 | 95.6 NM_018015.3 |

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| 171.2 | 200.3 | 247.8 | 196.2 NM_018029.3 |
| 1766.8 | 848.9 | 803 | 627.4 NM_018035.1 |
| 112.4 | 100.4 | 104.1 | 102.8 NM_018042.2 |
| 116 | 103.4 | 98.7 | 96.8 NM_018048.2 |
| 104.9 | 97.6 | 100.9 | 96.1 NM_018059.3 |
| 93.1 | 103.3 | 98.8 | 107 NM_018071.3 |
| 120.2 | 104.7 | 106.4 | 100.1 NM_018074.3 |
| 390.2 | 410.2 | 351 | 317.9 NM_018079.3 |
| 98 | 100.2 | 97.7 | 104.7 NM_018111.1 |
| 159.8 | 117.8 | 100 | 109.4 NM_152563.1 |
| 248 | 247.3 | 182.7 | 242.9 NM_018195.2 |
| 608.7 | 585.8 | 541.3 | 469.3 NM_018210.1 |
| 87.4 | 86.7 | 73.2 | 90.8 NM_018215.2 |
| 84.4 | 73.9 | 84.8 | 80 NM_018219.1 |
| 105.1 | 92.1 | 88.7 | 94.1 NM_018231.1 |
| 132.2 | 213.7 | 189.5 | 171 NM_018242.2 |
| 149.9 | 179.5 | 204.5 | 130.6 NM_018271.2 |
| 140.9 | 143.5 | 119.8 | 108.9 NM_018273.2 |
| 154.2 | 149.5 | 148.8 | 145.2 NM_018275.3 |
| 96.2 | 89.1 | 86.7 | 94.7 NM_018280.1 |
| 360.4 | 501.4 | 410 | 310.1 NM_018291.2 |
| 102.6 | 101.9 | 95.9 | 90.1 NM_019044.2 |
| 117.1 | 122.7 | 111.5 | 109.7 NM_018295.1 |
| 106.5 | 103 | 102.4 | 92 NM_018302.1 |
| 117.8 | 112.2 | 108.5 | 102.5 NM_018340.1 |
| 170.2 | 183.2 | 170.8 | 160.4 NM_018342.2 |
| 265.3 | 190.4 | 169.8 | 192.9 NM_018348.4 |
| 108 | 107.2 | 85.8 | 98.8 NM_018352.1 |
| 150.6 | 134.2 | 112 | 127.1 NM_018356.1 |
| 193.7 | 162.2 | 146.8 | 168.2 NM_018359.1 |
| 187.1 | 141.7 | 123.4 | 149.6 NM_018370.1 |
| 153.9 | 138.6 | 144.7 | 106.2 NM_018381.1 |
| 3089.4 | 2099.4 | 1989 | 1337.3 NM_018386.1 |
| 92.1 | 86.1 | 80 | 87.2 NM_018392.3 |
| 331.8 | 289.4 | 298.6 | 377.7 NM_024570.1 |
| 78.3 | 90.3 | 86.4 | 89.2 NM_024891.1 |
| 131.9 | 130.9 | 126 | 112.4 NM_024669.1 |
| 85.9 | 79.3 | 81.5 | 82.2 NM_207661.2 |
| 129.9 | 134.5 | 116.7 | 115 NM_024824.3 |
| 99.5 | 87.7 | 87.1 | 79.6 NM_207662.2 |
| 136.4 | 127.2 | 108 | 149 NM_024824.3 |
| 85.1 | 90.7 | 79.3 | 89.3 NM_024933.2 |
| 141.4 | 134.6 | 135.1 | 127.7 NM_024537.1 |
| 85.3 | 77.6 | 84.8 | 84.2 NM_024986.1 |
| 90.9 | 91.6 | 87.5 | 86.8 NM_024749.2 |
| 90.9 | 95.3 | 89.8 | 92.1 NM_024811.2 |
| 162.4 | 119 | 113.5 | 108.5 NM_024926.1 |
| 84.6 | 88.8 | 88.5 | 94.2 NM_022773.1 |
| 152.2 | 87.8 | 98.1 | 100 NM_024534.4 |
| 264.7 | 258.9 | 223.5 | 212.7 NM_021942.4 |

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| 283.3 | 234.6 | 212.5 | 224.8 NM_199053.1 |
| 499.3 | 520.2 | 521.4 | 361.4 NM_022492.2 |
| 211 | 187.2 | 170 | 164 NM_019108.1 |
| 157.4 | 135.5 | 119.3 | 130 NM_178159.1 |
| 396.9 | 258.1 | 248.5 | 231.3 NM_023008.2 |
| 156.8 | 146.3 | 130.3 | 142.2 NM_022764.1 |
| 119.6 | 113 | 107.9 | 106.7 NM_025000.1 |
| 430.1 | 369 | 358.3 | 208.4 NM_021826.4 |
| 91.2 | 85.7 | 82.9 | 84.2 NM_023073.2 |
| 103.7 | 87.3 | 96.5 | 98.7 NM_024902.2 |
| 97.5 | 91.9 | 104.4 | 96.7 NM_024877.1 |
| 108.4 | 129.2 | 119.9 | 116.3 NM_001031720.1 |
| 286.6 | 240.4 | 247.6 | 245.4 NM_001031720.1 |
| 112.4 | 113.4 | 106.7 | 104.6 NM_032180.1 |
| 78.1 | 77.2 | 86.2 | 82.1 NM_032181.1 |
| 201.4 | 179.4 | 176 | 173 NM_022484.3 |
| 86.7 | 87.1 | 84.4 | 86.5 NM_024941.1 |
| 89.5 | 92.8 | 89.2 | 80.1 NM_139076.1 |
| 136.6 | 140.4 | 123.2 | 104.8 NM_001031719.1 |
| 113.5 | 103.7 | 103 | 101.1 NM_024705.1 |
| 131.7 | 156 | 132.9 | 139.9 NM_001031719.1 |
| 86.9 | 92 | 89.8 | 90.2 NM_024702.1 |
| 366.5 | 297.6 | 284.3 | 156.7 NM_025108.1 |
| 109.1 | 112 | 107.3 | 84.4 NM_022780.2 |
| 729.2 | 436.4 | 397.4 | 292.2 NM_022770.2 |
| 95.5 | 87.1 | 76.3 | 86.7 NM_152275.2 |
| 104.4 | 95 | 90.9 | 92.4 NM_024770.1 |
| 91.3 | 88.8 | 83.4 | 86.6 NM_024563.2 |
| 118.6 | 104.6 | 97.4 | 105.1 NM_025026.1 |
| 129.4 | 126.7 | 112.7 | 89.9 NM_024845.1 |
| 87.6 | 91.2 | 82.3 | 103.6 NM_024565.4 |
| 94.3 | 86.5 | 88.9 | 92.3 NM_024841.2 |
| 92.6 | 101.2 | 83.1 | 84.3 NM_025029.2 |
| 90.1 | 96.3 | 93.8 | 96.1 NM_032779.2 |
| 221 | 188 | 147.4 | 139.6 NM_032790.2 |
| 114.9 | 120 | 117.5 | 114.5 NM_032816.3 |
| 992.5 | 739.2 | 815.9 | 458.1 NM_032822.1 |
| 163.9 | 143.7 | 143.1 | 136.1 NM_032836.1 |
| 1008.2 | 761.6 | 635.7 | 681.9 NM_032842.2 |
| 87 | 86.8 | 89.8 | 90 NM_032845.1 |
| 85 | 84.6 | 71.9 | 89.1 NM_032849.2 |
| 90.9 | 87.3 | 90.4 | 81.9 NM_001001665.2 |
| 90.4 | 86.5 | 84.5 | 86.7 NM_001004345.1 |
| 92.3 | 89.4 | 89 | 89.6 NM_001004318.1 |
| 159.3 | 125.2 | 110.5 | 110.8 NM_001008401.1 |
| 94.4 | 92.9 | 89.5 | 87.5 NM_001004320.1 |
| 108.3 | 100.2 | 105.3 | 112.9 NM_001004326.1 |
| 83.4 | 76.4 | 82.3 | 86.6 NM_001004341.1 |
| 112.7 | 97.7 | 85.5 | 99.6 NM_001004301.1 |
| 90.8 | 87.3 | 84.9 | 89.3 NM_001001662.1 |

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| 101.4 | 89.7 | 95.8 | 93.1 NM_001004316.1 |
| 98.5 | 105.5 | 94.1 | 92.7 NM_001039756.1 |
| 111.7 | 96 | 103.2 | 88.5 NM_001039780.1 |
| 84.1 | 91.6 | 77.7 | 86.8 NM_017628.2 |
| 172.1 | 173.6 | 145.7 | 151.1 NM_017631.3 |
| 475.8 | 722.5 | 723 | 566.5 NM_019049.1 |
| 113.4 | 119.6 | 109.1 | 135.5 NM_017667.2 |
| 106.1 | 115.6 | 101.1 | 108.6 NM_024553.2 |
| 92.3 | 76.9 | 77.8 | 83.4 NM_024553.2 |
| 108.7 | 105.8 | 96.7 | 99.5 NM_017669.2 |
| 154.5 | 124.8 | 107.8 | 132 NM_017669.2 |
| 192.2 | 161.2 | 143.5 | 149.6 NM_017676.1 |
| 133.9 | 84.2 | 85.3 | 93.5 NM_017681.1 |
| 95.5 | 92.1 | 84.7 | 95.1 NM_019000.2 |
| 135 | 108.2 | 97 | 101.9 NM_001034850.1 |
| 205.6 | 159.2 | 141.9 | 148.2 NM_001034850.1 |
| 176 | 171.3 | 162 | 177.1 NM_017694.2 |
| 72.5 | 91.3 | 73.3 | 80.7 NM_017700.1 |
| 296.2 | 219.8 | 184.8 | 184.4 NM_017702.2 |
| 195.7 | 152.7 | 146.8 | 134.3 NM_017702.2 |
| 758.5 | 659.9 | 712.8 | 440.6 NM_207514.1 |
| 910.8 | 610.2 | 594.5 | 359.5 NM_019008.4 |
| 486.6 | 346.2 | 274.3 | 322.3 NM_017723.1 |
| 171.5 | 131.2 | 123.4 | 138.8 NM_017727.3 |
| 367.5 | 355.5 | 320.4 | 221.7 NM_017735.3 |
| 153.2 | 244.8 | 196.2 | 214.2 NM_019027.1 |
| 239.5 | 201.1 | 181.9 | 181.1 NM_017741.2 |
| 100.9 | 87.2 | 98.5 | 86.9 NM_017749.2 |
| 109.5 | 118.8 | 112.7 | 101 NM_017751.1 |
| 77.2 | 84.5 | 80.4 | 77.8 NM_198881.1 |
| 94.2 | 88.2 | 93.9 | 87.9 NM_198881.1 |
| 108.3 | 113 | 104.3 | 103 NM_017759.2 |
| 317 | 448.5 | 331.4 | 321.4 NM_019005.2 |
| 778.8 | 593.6 | 519.9 | 425.4 NM_017785.2 |
| 77.9 | 85.6 | 89.9 | 77.3 NM_017786.2 |
| 90.5 | 87.4 | 85.9 | 85.3 NM_017802.2 |
| 152.3 | 110.8 | 107.9 | 117.8 NM_017814.1 |
| 86.9 | 91.4 | 90.7 | 82 NM_017820.2 |
| 429.2 | 386.3 | 288.8 | 308.9 NM_017842.1 |
| 1646.2 | 1121.5 | 1150.6 | 816.6 NM_017854.1 |
| 339.8 | 233.8 | 209.6 | 189.5 NM_017858.1 |
| 413.4 | 302.9 | 271.6 | 306.7 NM_017867.1 |
| 201.7 | 184.3 | 165.6 | 152.6 NM_017875.1 |
| 189.5 | 173.3 | 180.1 | 161.4 NM_017880.1 |
| 115.1 | 114.1 | 124.1 | 103.8 NM_017888.2 |
| 288.8 | 354 | 253.9 | 216.7 NM_014106.2 |
| 1707.4 | 1420.7 | 1216.1 | 849.4 NM_017907.1 |
| 155.6 | 148.1 | 165.8 | 159.9 NM_017910.2 |
| 614.9 | 398.5 | 367.5 | 284 NM_017916.1 |
| 424.5 | 264 | 301.5 | 247.8 NM_017918.3 |

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| 90.4 | 85.3 | 79.2 | 90.2 NM_019086.2 |
| 267.6 | 255.7 | 215.2 | 228.4 NM_019086.2 |
| 220.5 | 191.7 | 185.7 | 162.5 NM_017931.2 |
| 95.4 | 102.8 | 89.3 | 95.3 NM_017933.3 |
| 456.6 | 318.1 | 272.7 | 249.3 NM_182922.1 |
| 105 | 109.4 | 108.5 | 109.9 NM_182922.1 |
| 87.7 | 95.4 | 88.6 | 101.7 NM_017952.4 |
| 89.3 | 99 | 97.6 | 79.9 NM_017967.2 |
| 107.5 | 91.4 | 101.3 | 99.7 NM_025149.3 |
| 92.6 | 113.1 | 92.2 | 97.1 NM_024788.2 |
| 87.8 | 83.7 | 88.8 | 89.7 NM_025031.1 |
| 148.5 | 100.1 | 110.7 | 109.5 NM_024556.1 |
| 232.8 | 257.2 | 304.9 | 253.5 NM_025097.1 |
| 218.3 | 255.6 | 258.7 | 229.5 NM_024627.4 |
| 282.9 | 274.6 | 288.5 | 184.8 NM_024549.3 |
| 95.4 | 82.9 | 82.3 | 90.9 NM_024826.1 |
| 114.3 | 108.1 | 94.7 | 107.5 NM_025087.1 |
| 95.1 | 102.8 | 88.7 | 90.9 NM_024859.1 |
| 119.2 | 118.9 | 106.9 | 94.5 NM_032207.1 |
| 172.6 | 182 | 154.8 | 162.4 NM_025124.1 |
| 272.7 | 218.8 | 177.2 | 180.4 NM_024675.2 |
| 362.9 | 320.4 | 281.9 | 258.4 NM_021925.1 |
| 180.5 | 104.1 | 101.5 | 97.2 NM_020153.2 |
| 260.1 | 253.4 | 243.9 | 212.1 NM_001035507.2 |
| 140 | 170 | 144.4 | 163.1 NM_021831.5 |
| 276.9 | 348.7 | 318.1 | 271.6 NM_022759.1 |
| 253.1 | 256.9 | 264.9 | 257.4 NM_024622.2 |
| 89.8 | 95.4 | 79.3 | 87.9 NM_024604.1 |
| 339.9 | 238.1 | 231.6 | 164.3 NM_025203.1 |
| 80.8 | 85.8 | 89.5 | 89.3 NM_024560.2 |
| 89 | 96.5 | 93.3 | 105.2 NM_024913.3 |
| 237.5 | 194.9 | 218.2 | 226.5 NM_022918.2 |
| 117.2 | 97.7 | 87.8 | 95.5 NM_001077419.1 |
| 80.6 | 91 | 85.3 | 89.5 XM_940456.1 |
| 98.3 | 101.7 | 111.8 | 100.4 NM_001080403.1 |
| 118.3 | 130.6 | 128.6 | 117.6 NM_175902.3 |
| 469.3 | 504.7 | 476.1 | 387 NM_024648.1 |
| 122.8 | 112.9 | 113.1 | 113.5 XM_941411.1 |
| 155.5 | 152.2 | 158.2 | 127.7 NM_022762.3 |
| 120.2 | 103.7 | 110.5 | 112.6 NM_024821.2 |
| 103.3 | 94.6 | 98.5 | 94.5 NM_032222.1 |
| 195.8 | 188.9 | 177.9 | 146.8 NM_024589.1 |
| 492.4 | 514.1 | 525.8 | 267.3 NM_025140.1 |
| 131 | 125.6 | 126.3 | 106.9 NM_024650.2 |
| 1100.7 | 647.5 | 618.2 | 625.9 NM_024520.1 |
| 659.9 | 455.8 | 344 | 420.1 NM_024808.2 |
| 110.8 | 96.3 | 90.9 | 106.3 NM_024796.1 |
| 110.8 | 272.3 | 231.5 | 244.7 NM_024829.4 |
| 90.7 | 84.4 | 90.4 | 85.8 NM_024861.1 |
| 98.3 | 95.8 | 89.5 | 103.5 NM_025129.3 |

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| 364.2 | 306.5 | 309.3 | 221.7 NM_024578.1 |
| 222.8 | 173.8 | 162.4 | 149.4 NM_024785.2 |
| 103.5 | 110.2 | 111.3 | 98.8 NM_025084.1 |
| 106.4 | 120.7 | 106 | 94.5 NM_024687.1 |
| 83.4 | 83.4 | 73.8 | 84.4 NM_024574.2 |
| 85.5 | 81 | 83.8 | 90.2 NM_032237.2 |
| 104 | 106.6 | 87.6 | 102.5 NM_024671.2 |
| 92.2 | 97.5 | 87.7 | 85.8 NM_024825.2 |
| 98.1 | 95.4 | 90.4 | 91.7 NM_021827.2 |
| 87.1 | 87 | 86.1 | 87 NM_024725.2 |
| 95.6 | 90.3 | 93.8 | 94.9 NM_144722.2 |
| 97.1 | 92.9 | 83.7 | 96.3 NM_024867.2 |
| 92.9 | 82.4 | 82.1 | 80.4 NM_144722.2 |
| 266.1 | 351.2 | 288.4 | 259.7 NM_024588.3 |
| 79.4 | 86.3 | 79.7 | 79 NM_198856.1 |
| 90.1 | 84.3 | 84.6 | 87.2 NM_022785.2 |
| 97 | 94.3 | 89.8 | 92 NM_022785.2 |
| 80.5 | 84.7 | 81 | 81.9 NM_178497.2 |
| 97.5 | 87.2 | 84.4 | 87.7 NM_152750.2 |
| 89.3 | 80.9 | 93.7 | 92.6 NM_152519.2 |
| 99.4 | 86.1 | 84 | 84.2 NM_144990.2 |
| 156.7 | 192.2 | 199.4 | 206.6 NM_144610.1 |
| 193 | 153.1 | 158.8 | 129 NM_152504.2 |
| 101.3 | 96.8 | 103 | 92.4 NM_152792.1 |
| 105.5 | 109.5 | 114.7 | 107.5 NM_182626.1 |
| 100.2 | 100.1 | 94.8 | 88.8 NM_182500.1 |
| 467.9 | 490.7 | 652.5 | 452.8 NM_199163.2 |
| 86.1 | 81.2 | 79.9 | 85.2 NM_152483.1 |
| 80.2 | 88.4 | 84.6 | 84.1 NM_152670.1 |
| 94.3 | 90.2 | 91.3 | 90.2 NM_152543.1 |
| 98.9 | 86.5 | 92.5 | 99.9 NM_144605.1 |
| 476.8 | 324.8 | 244.2 | 209.7 NM_145018.2 |
| 86 | 77.6 | 76.6 | 86.9 NM_152512.3 |
| 93.7 | 93.9 | 97.8 | 97.1 NM_144725.3 |
| 92.2 | 90.4 | 87.7 | 94 NM_152761.1 |
| 417 | 327.1 | 335.3 | 206.6 NM_152493.2 |
| 105 | 95.5 | 97.4 | 104.7 NM_152704.2 |
| 84.6 | 86.7 | 88 | 82 NM_152481.1 |
| 96.4 | 93.2 | 88.2 | 87.5 NM_153216.1 |
| 92.9 | 81.4 | 73.9 | 79.3 NM_178555.2 |
| 84.2 | 89.9 | 72 | 84.9 NM_182560.1 |
| 107.5 | 108.5 | 108.3 | 100.2 NM_173559.1 |
| 91.4 | 86.9 | 87.9 | 86.3 NM_173553.1 |
| 79.1 | 79.4 | 77.6 | 78.8 NM_174943.2 |
| 85.3 | 89.7 | 83 | 85.8 NM_001001699.1 |
| 128.8 | 96.1 | 99 | 88.3 NM_001001668.2 |
| 91.7 | 85 | 80.2 | 90.9 NM_207440.1 |
| 93.1 | 88.7 | 84.8 | 88.2 NM_001001687.1 |
| 124.1 | 117.5 | 120.8 | 109.3 XM_928328.1 |
| 84.5 | 99 | 85.1 | 88.9 XM_932785.1 |

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| 80.6 | 74.3 | 75.3 | 86.4 NM_207408.1 |
| 88.1 | 91.7 | 94.1 | 84.2 NM_001080462.1 |
| 462.1 | 256.5 | 223.1 | 224.8 NM_144595.2 |
| 185.3 | 130.7 | 117.4 | 128.6 NM_144595.2 |
| 94.9 | 97.7 | 99.9 | 103.3 NM_144967.2 |
| 89.6 | 87.4 | 90.2 | 75.9 NM_153008.3 |
| 98.3 | 90.3 | 88.9 | 95.1 NM_144632.2 |
| 105.1 | 98.1 | 99.6 | 95.1 NM_152757.1 |
| 151.9 | 118.9 | 115.9 | 113.8 NM_153013.2 |
| 145 | 127.8 | 114.2 | 153 NM_144643.1 |
| 73.3 | 72.9 | 83.2 | 83 NM_145019.2 |
| 93.9 | 88.8 | 89.8 | 99.3 NM_152399.1 |
| 91.5 | 90.4 | 90.1 | 91.4 NM_198553.1 |
| 99.6 | 90.9 | 85.4 | 97.4 NM_152760.2 |
| 97.2 | 92.8 | 84.3 | 92.2 NM_152517.1 |
| 82.8 | 80.4 | 85.5 | 92.3 NM_152908.2 |
| 103.7 | 93.3 | 89.7 | 86.8 NM_174912.2 |
| 90.5 | 83 | 82.6 | 82.5 XR_001005.1 |
| 966.5 | 752.2 | 870.5 | 465.2 NM_152557.3 |
| 104.2 | 97 | 98.5 | 103.2 NM_152385.1 |
| 89.2 | 83.1 | 89.9 | 88.2 NM_152509.1 |
| 113.5 | 103.7 | 107.8 | 99.5 NM_153027.1 |
| 106.6 | 110.7 | 107.8 | 94.7 NM_144974.1 |
| 96.3 | 92.4 | 102 | 102.2 NM_182516.1 |
| 89.7 | 84.4 | 87.4 | 87.5 NM_153031.1 |
| 91.7 | 91.5 | 89.7 | 86.1 NM_181646.2 |
| 88.7 | 99.3 | 95 | 104 NM_152458.4 |
| 94.3 | 91.6 | 77.8 | 91 NM_152497.1 |
| 119.9 | 103.3 | 95 | 98.9 NM_144709.1 |
| 135.8 | 139.6 | 142.1 | 142.1 NM_153038.1 |
| 102.4 | 93.6 | 97.6 | 84.2 NM_152440.3 |
| 80.9 | 83.8 | 82.5 | 82 NM_152491.3 |
| 96 | 88.3 | 93.4 | 94.8 NM_152491.3 |
| 94.6 | 87 | 89.7 | 99.6 NM_144688.2 |
| 92.8 | 86.1 | 80.9 | 89.8 NM_001012452.1 |
| 248.7 | 203.5 | 177.8 | 172.1 NM_144978.1 |
| 93.9 | 92.5 | 92.5 | 96.4 NM_145017.1 |
| 97.5 | 95.7 | 88.8 | 89.3 NM_001039500.1 |
| 89.6 | 96.9 | 99.5 | 88.1 NM_144648.1 |
| 106 | 92.2 | 101.9 | 106.4 XR_001429.1 |
| 87.3 | 83 | 81.3 | 83.8 NM_144674.1 |
| 100.3 | 104.2 | 100.3 | 92.3 NM_144667.1 |
| 86.7 | 82.6 | 77.3 | 92.9 NM_144577.1 |
| 85.8 | 80.6 | 78.8 | 82.5 NM_001001702.1 |
| 101.6 | 89.6 | 92.8 | 94 NM_173821.1 |
| 705 | 1887 | 1745.3 | 1503.5 NM_152687.1 |
| 110.4 | 97.5 | 88.7 | 91.4 NM_173660.2 |
| 270.3 | 224.2 | 215.5 | 141.6 NM_173583.1 |
| 135.9 | 390.1 | 342.1 | 404.7 NM_173644.1 |
| 90 | 82.7 | 80 | 82.2 NM_199340.2 |

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| 95.9 | 98.4 | 87.6 | 81.1 NM_173673.1 |
| 90.4 | 91 | 92.3 | 80.9 NM_001029883.1 |
| 505.8 | 360.3 | 319.2 | 367.1 NM_152678.1 |
| 143 | 148 | 125.9 | 133.8 NM_175871.2 |
| 98.6 | 117.4 | 124.1 | 113.6 NM_173627.2 |
| 90.4 | 90.6 | 81 | 85.7 NM_001001688.1 |
| 81.3 | 83.2 | 78 | 84.2 NM_207444.1 |
| 108.3 | 94.7 | 97.2 | 92.7 NM_152544.1 |
| 89.1 | 91.5 | 85 | 94.5 NM_001031742.1 |
| 185.5 | 132.5 | 115 | 106.8 NM_207459.1 |
| 82.7 | 87.5 | 84.6 | 85.6 NM_152599.2 |
| 82.2 | 84.1 | 82.6 | 83.7 NM_001039796.1 |
| 91.5 | 92.5 | 91 | 106 NM_198534.1 |
| 100.8 | 95.4 | 89 | 83.9 NM_207489.1 |
| 99.2 | 93.6 | 89.4 | 95.8 NM_178827.3 |
| 85.8 | 82.5 | 76.6 | 87.3 NM_001033659.1 |
| 101 | 93.5 | 79.2 | 100.4 NM_153264.2 |
| 77.9 | 77.4 | 78.2 | 92.8 NM_173616.1 |
| 83.8 | 77 | 78.4 | 78.7 NM_152590.1 |
| 91 | 81 | 85 | 84.1 NM_175884.3 |
| 114.2 | 101.1 | 93.3 | 96.9 NM_152612.2 |
| 108.8 | 102.2 | 90.6 | 102.7 NM_182574.1 |
| 131.6 | 141.9 | 119.4 | 138.9 NM_153223.1 |
| 96 | 91.3 | 93.3 | 94.9 NM_182634.2 |
| 98.6 | 98.9 | 89.8 | 96.1 NM_178556.3 |
| 106.2 | 107.3 | 105.8 | 100.7 NM_176677.1 |
| 86.2 | 82.3 | 84.8 | 80.9 NM_207511.1 |
| 92.9 | 90.7 | 86.8 | 93.6 NM_153233.1 |
| 81.5 | 86.2 | 79.4 | 89.1 XM_945320.1 |
| 86.6 | 81.9 | 84.4 | 86.1 NM_182568.2 |
| 94.6 | 109.9 | 105.7 | 100.3 NM_152406.1 |
| 93 | 88 | 87.2 | 96.2 NM_152571.2 |
| 1361.5 | 967.1 | 913.3 | 700.7 NM_152716.1 |
| 102.8 | 98.4 | 96 | 97.4 NM_178830.2 |
| 97.1 | 94.4 | 87.3 | 97.6 NM_182598.1 |
| 89 | 88.4 | 81.1 | 96.3 NM_153043.3 |
| 86.6 | 81.8 | 80.1 | 87.8 NM_175892.3 |
| 94.2 | 96.5 | 87 | 91.8 NM_173645.1 |
| 97.2 | 99.4 | 91.8 | 83.2 NM_153214.1 |
| 99.4 | 109.5 | 103 | 103.3 NM_173815.3 |
| 94.7 | 94.9 | 90.9 | 89.5 NM_173564.2 |
| 152.5 | 190.4 | 150.5 | 187.2 NM_152409.2 |
| 110.1 | 103.7 | 108.2 | 108.4 NM_152623.1 |
| 85.7 | 91.6 | 76.7 | 103.6 NM_152382.1 |
| 148.4 | 218.3 | 203.5 | 211.8 NM_032251.3 |
| 97.4 | 90.5 | 87.4 | 85.3 NM_001039775.1 |
| 147.8 | 126 | 130.7 | 136.5 NM_152723.1 |
| 125.1 | 115.6 | 97.6 | 94 NM_173632.2 |
| 84.4 | 106.5 | 87.2 | 84.9 NM_152698.1 |
| 210.9 | 160 | 161.9 | 136.5 NM_175872.3 |

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| 981.6 | 734.6 | 613.9 | 661.9 NM_152681.1 |
| 89 | 76.6 | 75.3 | 82.3 NM_001039905.1 |
| 195.7 | 177 | 183.6 | 148.3 NM_152269.1 |
| 94 | 99.1 | 93.4 | 100.5 NM_173805.2 |
| 92.6 | 92.2 | 85.2 | 84.5 NM_153218.1 |
| 91 | 90.9 | 92.4 | 86.6 NM_173527.1 |
| 90.9 | 79.6 | 87.5 | 94 NM_153689.3 |
| 221.8 | 193.8 | 183.5 | 135.1 NM_152374.1 |
| 103.2 | 103.1 | 96.4 | 99.5 NM_173827.2 |
| 97.6 | 100.1 | 105.1 | 105.4 NM_001033760.1 |
| 88.9 | 83.4 | 84.1 | 89.7 NM_001080445.1 |
| 92.2 | 83 | 81.1 | 84 NM_182801.1 |
| 98.2 | 92 | 86.6 | 87.2 NM_152403.2 |
| 86 | 92.6 | 79.3 | 84.9 NM_152403.2 |
| 102.6 | 84.3 | 91.6 | 85.8 NM_198571.1 |
| 100.3 | 102.7 | 92.7 | 101.3 NM_178314.2 |
| 84.3 | 89.4 | 85.5 | 90.4 NM_173483.1 |
| 97 | 98.6 | 91.4 | 90.4 NM_173648.2 |
| 73.1 | 77.9 | 79.8 | 79.7 NM_207445.1 |
| 127.9 | 158.3 | 162.8 | 173.6 NM_182597.1 |
| 102.5 | 102.7 | 103.7 | 118.6 NM_173803.2 |
| 104.1 | 110.2 | 97.4 | 97.5 NM_001080539.1 |
| 86.5 | 85.6 | 82 | 87 NM_182562.1 |
| 85.6 | 91.2 | 91.2 | 85.7 NM_207442.1 |
| 96.4 | 78.8 | 92.6 | 88 NM_173512.1 |
| 380.7 | 370.7 | 331.7 | 227.8 NM_152424.1 |
| 84.5 | 79.4 | 78.6 | 86.5 NR_003246.1 |
| 100.2 | 106.4 | 114.1 | 94.3 NM_178494.2 |
| 200.1 | 220.3 | 249.9 | 182.9 NM_207435.1 |
| 82.6 | 87.5 | 77.2 | 81.3 NM_173649.1 |
| 99.8 | 89.4 | 88.9 | 94.3 NM_173635.1 |
| 72.6 | 72.7 | 72.4 | 75.7 NM_173489.2 |
| 71 | 83.1 | 75.2 | 83.8 NM_001039397.1 |
| 90.7 | 83 | 77.1 | 81.2 NM_173682.1 |
| 101.7 | 97 | 94.6 | 97.5 NM_198441.1 |
| 76.9 | 70.9 | 80 | 78.9 NM_173486.1 |
| 93.7 | 89.9 | 87.9 | 89.8 NM_173482.1 |
| 103.2 | 105.6 | 99.1 | 98.4 NM_001080504.1 |
| 98.6 | 100.5 | 93.3 | 92.7 NM_182605.1 |
| 94.2 | 84.3 | 78.7 | 79.7 NM_001007542.1 |
| 98.4 | 85.7 | 99.7 | 90 NM_173624.1 |
| 857.8 | 553.7 | 480.4 | 379.2 NM_152515.2 |
| 87.3 | 79.8 | 87.8 | 86.4 NM_173678.1 |
| 112.7 | 106.6 | 110.2 | 95.8 NM_173677.1 |
| 81.5 | 81.9 | 79.1 | 83.3 NM_182625.2 |
| 85.7 | 74.3 | 77.5 | 76.1 NM_182508.1 |
| 86.1 | 94.8 | 96.7 | 92.3 NM_207479.1 |
| 264.9 | 240.7 | 247.1 | 145.7 NM_198476.1 |
| 84.5 | 94.5 | 86.1 | 86.1 NM_001004332.1 |
| 269.9 | 294 | 354.1 | 263.9 NM_001001679.1 |

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| 90.3 | 96.6 | 93.5 | 86.9 NM_001001669.1 |
| 98.4 | 77.9 | 76.3 | 91.2 NM_001001705.1 |
| 88.9 | 95.5 | 91.8 | 88.8 NM_207473.1 |
| 76.5 | 73.6 | 83.4 | 78.7 NM_001001697.1 |
| 94.4 | 88.1 | 94.5 | 89.8 NM_207499.1 |
| 90.8 | 84 | 79.9 | 89.2 NM_001001694.1 |
| 79.4 | 73.1 | 73.9 | 82.7 NM_001001680.1 |
| 100.7 | 105.8 | 95.6 | 101 NM_198463.1 |
| 103.7 | 99.4 | 94.4 | 95.8 NM_001001690.1 |
| 93.6 | 93.3 | 94.4 | 82.2 NM_001001706.1 |
| 101.6 | 92 | 87.4 | 99 NM_001004327.1 |
| 97.1 | 82.6 | 93.1 | 85.6 NM_207503.1 |
| 84.7 | 83.3 | 81.2 | 87.4 NM_207383.2 |
| 78.5 | 76.7 | 69.2 | 82.3 NM_198501.1 |
| 93.9 | 88.4 | 85.2 | 95.1 NM_207379.1 |
| 89.2 | 93.9 | 80.4 | 90.7 NM_207474.1 |
| 78.7 | 95.4 | 88.6 | 85 NM_207436.1 |
| 230.6 | 156.2 | 197.2 | 151 NM_207403.1 |
| 1086.6 | 1223 | 1504.4 | 867.3 NM_207498.1 |
| 91 | 86 | 85.7 | 90.7 NM_207382.1 |
| 153.4 | 212.9 | 246.7 | 171.2 NM_207380.1 |
| 105.6 | 124.4 | 134.8 | 109.7 NM_198582.1 |
| 87.4 | 80.5 | 83.7 | 86.1 NM_207468.1 |
| 293.2 | 273.9 | 269.6 | 224.1 NM_001003702.1 |
| 118.6 | 108.5 | 99.5 | 103.1 NM_207497.1 |
| 88.2 | 89.6 | 87 | 89.8 NM_001039892.1 |
| 87.1 | 95.3 | 80.9 | 81.2 NM_201628.1 |
| 91.7 | 91 | 91.3 | 87.6 NM_198857.1 |
| 129.8 | 155.6 | 140.1 | 162.3 NM_198857.1 |
| 95.9 | 88.1 | 84.4 | 83.2 NM_207414.1 |
| 94.8 | 88.9 | 84.7 | 95 NM_207414.1 |
| 91.7 | 83.6 | 88.8 | 80.5 NM_001004299.1 |
| 81.8 | 90 | 91.7 | 90.9 XM_942014.1 |
| 114.6 | 97.2 | 105.7 | 97.5 NM_001080474.1 |
| 88.8 | 87.5 | 88 | 91 NM_207482.1 |
| 85.2 | 85.5 | 77.5 | 86 NM_207366.1 |
| 104 | 89.3 | 90.5 | 91.4 NM_207486.1 |
| 79.8 | 81.7 | 80.9 | 83.8 NM_198520.1 |
| 726.7 | 1436.9 | 1678.3 | 1224.1 NM_001039755.1 |
| 927.1 | 560.9 | 611.7 | 452.9 NM_198567.1 |
| 91.5 | 83.5 | 84.8 | 90.8 XM_496787.2 |
| 90.1 | 86.9 | 81 | 87.5 NM_198564.2 |
| 91.4 | 88.6 | 87.4 | 90.4 NM_001080537.1 |
| 87.4 | 84.1 | 77.7 | 96.3 NM_207422.1 |
| 94.2 | 90.2 | 86.2 | 86.3 NM_207422.1 |
| 85.4 | 89.9 | 85.2 | 94.3 NM_001001678.1 |
| 94.5 | 82.1 | 81.2 | 80.6 NM_198506.1 |
| 99.7 | 102.8 | 90.2 | 93.2 NM_207454.1 |
| 86.2 | 84.5 | 92.1 | 83.7 NM_001039884.1 |
| 87 | 87.2 | 76 | 77.4 NM_207500.1 |

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| 110 | 109 | 99.4 | 107.8 NM_198537.1 |
| 147 | 126 | 102.5 | 112.6 NM_001039770.1 |
| 80.6 | 90.2 | 83.4 | 89.5 NM_001001685.1 |
| 93.5 | 86.6 | 82 | 86.4 NM_207451.1 |
| 84.1 | 83.9 | 76.6 | 91.3 NM_001001692.1 |
| 90.5 | 93.3 | 108.2 | 97.6 NM_207510.2 |
| 118.8 | 117 | 109.5 | 111.7 NM_207448.1 |
| 107.2 | 120.3 | 147.8 | 123 NM_207465.1 |
| 84.7 | 89.3 | 85.1 | 79.3 NM_001004349.1 |
| 104.5 | 94.9 | 94.1 | 94.3 NM_001004321.2 |
| 96 | 97.3 | 88.6 | 95.7 NM_207386.1 |
| 96.4 | 81.4 | 86.3 | 77.8 NM_001001682.1 |
| 107.2 | 102.8 | 88.1 | 101 NM_001001709.1 |
| 125.3 | 125 | 116.6 | 111.4 NM_001039762.1 |
| 101.3 | 94.6 | 76.6 | 91.4 NM_198557.1 |
| 99 | 86.9 | 90.8 | 92 NM_207401.1 |
| 83.7 | 87 | 86.4 | 87.9 NM_207490.1 |
| 88.9 | 81.1 | 87.1 | 92.2 NM_207429.2 |
| 98.9 | 94.9 | 87.9 | 91.3 NM_001001684.1 |
| 101.6 | 84.6 | 84.5 | 87 NM_207395.1 |
| 189.1 | 189.7 | 207.8 | 165.5 NM_198445.1 |
| 97.9 | 87.4 | 90.4 | 93.1 NM_207390.1 |
| 99.7 | 85.3 | 89.8 | 94.9 NM_207483.1 |
| 98.2 | 96.5 | 96.7 | 83.9 NM_001001700.1 |
| 99.4 | 88.7 | 92.7 | 95.5 NM_001001707.1 |
| 84.4 | 85.3 | 93.5 | 95.2 NM_207423.1 |
| 88.1 | 75.7 | 78.5 | 93.4 NM_001001703.1 |
| 266.4 | 249.5 | 242.2 | 224.4 NM_198488.1 |
| 90.3 | 87 | 81.6 | 85.7 NM_207417.1 |
| 102.5 | 91 | 97.1 | 92.1 NR_003082.1 |
| 127.3 | 154 | 223.6 | 161.4 NR_003082.1 |
| 88.6 | 78.6 | 81.2 | 76.3 NM_001004315.1 |
| 94.1 | 80.2 | 83.4 | 88 NM_001033562.1 |
| 87.4 | 86.9 | 86.7 | 83.7 NM_001033562.1 |
| 102.8 | 96 | 95.9 | 97.3 NM_198529.1 |
| 98.7 | 89.2 | 83.6 | 89.4 NM_001001693.1 |
| 94.6 | 81.9 | 88.9 | 93.9 NM_207430.1 |
| 922.2 | 1583 | 2338.2 | 1746.8 NM_001039797.1 |
| 85.4 | 80.6 | 78.7 | 95.2 NM_001001670.1 |
| 91.6 | 78.4 | 89.6 | 86.9 NM_001005303.1 |
| 92.7 | 82.8 | 74.8 | 86.6 NM_001001675.1 |
| 119.7 | 109.5 | 97.4 | 92.1 NM_207405.1 |
| 99.2 | 87.3 | 96.7 | 91.9 NM_198483.1 |
| 107.9 | 101.7 | 102.8 | 93.2 NM_001004330.1 |
| 99.1 | 82.7 | 85.5 | 84.1 NM_207426.1 |
| 95.6 | 92.6 | 72.4 | 85.1 NM_207509.1 |
| 90.9 | 82.9 | 76.7 | 82.1 NM_001007546.1 |
| 139.8 | 120.6 | 120.1 | 116.5 NM_153365.1 |
| 89.5 | 85.2 | 87 | 87.6 NM_153360.1 |
| 233.3 | 194.6 | 213.2 | 233.4 NM_153358.1 |

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| 98.6 | 106.3 | 100.1 | 98 NM_153376.1 |
| 75.3 | 80.5 | 72.6 | 83.3 NM_153345.1 |
| 88.6 | 84.9 | 83.4 | 76.5 NM_173800.3 |
| 406.8 | 292.2 | 278.4 | 306.4 NM_173618.1 |
| 258.9 | 296.5 | 273.9 | 210.5 NM_173514.1 |
| 176.7 | 220.7 | 208.5 | 164 NM_001004336.1 |
| 249.2 | 244.1 | 265.9 | 181.2 NM_173633.1 |
| 93.1 | 90.8 | 88.8 | 94.2 NM_173578.1 |
| 103.2 | 89.2 | 95.6 | 94.1 NM_001456.1 |
| 450.4 | 1080.1 | 939.5 | 727.6 NM_001457.1 |
| 93 | 87.4 | 79.4 | 83.3 NM_001458.2 |
| 153.7 | 138.9 | 120.3 | 117 NM_005803.2 |
| 4592.4 | 5175.7 | 4837.7 | 2403.4 NM_004475.1 |
| 147 | 140.9 | 127 | 108.6 NM_013280.4 |
| 98.5 | 101.5 | 89.6 | 101.6 NM_013231.4 |
| 90.4 | 93.4 | 80.7 | 79.4 NM_013281.2 |
| 89.8 | 86 | 82.3 | 86.5 NM_198391.1 |
| 86.8 | 88.2 | 81.4 | 80.3 NM_002019.2 |
| 315.5 | 182.1 | 173.6 | 164.5 NM_004119.1 |
| 112 | 95.4 | 97.3 | 91.9 NM_001459.2 |
| 91.9 | 86.2 | 82.4 | 87.2 NM_002020.1 |
| 80.7 | 85.4 | 83.4 | 85.7 NM_182925.3 |
| 187.7 | 132.8 | 152.3 | 127.1 NM_014053.1 |
| 117.6 | 97.3 | 93.7 | 105.7 NM_020912.1 |
| 111.3 | 106.5 | 109.7 | 98.8 NM_032296.2 |
| 95.7 | 95.3 | 82.7 | 92.7 NM_020066.3 |
| 106 | 110.2 | 112.5 | 94.5 NM_005892.3 |
| 86.4 | 93.7 | 89.9 | 95.3 NM_001004422.1 |
| 86 | 97.6 | 93.1 | 93.2 NM_198900.2 |
| 91.5 | 86.5 | 86.7 | 87.1 NM_175736.3 |
| 87.5 | 81 | 77.4 | 83.7 NM_198900.2 |
| 95.6 | 91.5 | 90.9 | 92.9 NM_002021.1 |
| 97.4 | 101.3 | 89 | 102.3 NM_001460.2 |
| 83.7 | 76.2 | 77.4 | 81.7 NM_001002294.1 |
| 80.7 | 87.2 | 89.3 | 89 NM_006894.4 |
| 155.4 | 143.2 | 143.4 | 144.8 NM_002022.1 |
| 109.9 | 134 | 126.9 | 123.6 NM_001461.1 |
| 146.4 | 160.9 | 156.5 | 109.2 XR_001521.1 |
| 95 | 97.6 | 81.6 | 79.3 NR_002601.1 |
| 92.8 | 92.4 | 97.3 | 86 NM_002023.3 |
| 94.7 | 86.3 | 74.6 | 84.3 NM_002024.3 |
| 103.6 | 107.5 | 90.2 | 92 NM_152578.1 |
| 84.5 | 91.6 | 83.5 | 89.3 NM_054034.2 |
| 85.8 | 82.2 | 81.7 | 81.9 NM_054034.2 |
| 81.1 | 84.2 | 90.9 | 86.3 NM_212474.1 |
| 98.6 | 95.7 | 100.1 | 85.8 NM_022158.2 |
| 630.4 | 642 | 750.7 | 397.2 NM_024619.2 |
| 431.3 | 332.1 | 337.4 | 231.4 NM_020179.1 |
| 1216.7 | 1939.8 | 1995.9 | 1215 NM_015033.2 |
| 88.9 | 81.5 | 82.2 | 89.7 NM_001024948.1 |

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| 91.5 | 129.3 | 104.1 | 109.2 NM_017737.3 |
| 1681.6 | 1866.8 | 1756.2 | 1665.9 NM_015308.1 |
| 84.3 | 87 | 75.3 | 84 NM_032532.1 |
| 158.7 | 176 | 171.9 | 170.8 NM_001079673.1 |
| 94.2 | 97.6 | 99.5 | 89.1 NM_001079673.1 |
| 172 | 203.8 | 181.8 | 195.7 NM_014923.2 |
| 92.7 | 86 | 89.8 | 90.8 NM_022823.1 |
| 90.9 | 99.5 | 92 | 94 NM_153756.1 |
| 123.4 | 114.4 | 106.9 | 104.4 NM_144717.2 |
| 99.3 | 86.9 | 91.8 | 94.9 NM_173532.1 |
| 90.2 | 94.4 | 91.1 | 81.5 NM_017559.2 |
| 719.4 | 559.6 | 518 | 385.7 NM_002027.2 |
| 84.8 | 93.6 | 79 | 75.6 NM_001018677.1 |
| 2879.1 | 1965.8 | 1531.9 | 1375.7 NM_002027.2 |
| 295.1 | 238.2 | 269.8 | 179.7 NM_002028.3 |
| 99.4 | 92.1 | 93.5 | 101.4 NM_004476.1 |
| 134 | 131.1 | 124.3 | 108.4 NM_001014986.1 |
| 85 | 88.2 | 79.8 | 88.9 NM_016724.1 |
| 96.2 | 99.3 | 98.4 | 89.4 NM_016730.1 |
| 92 | 89.5 | 85.3 | 94.5 NM_016724.1 |
| 113.6 | 99 | 103.1 | 105.5 NM_016725.1 |
| 109.2 | 93.7 | 97 | 87.2 NM_000803.2 |
| 92.7 | 90.2 | 90.7 | 95.1 NM_000804.2 |
| 402.8 | 291.8 | 227 | 240.7 NM_005252.2 |
| 137.9 | 120.5 | 111.8 | 107.3 NM_006732.1 |
| 142 | 123.1 | 107.5 | 104.4 NM_005438.2 |
| 95.7 | 91.5 | 92.5 | 93.8 NM_005253.3 |
| 88 | 90 | 84.5 | 92.4 NM_004496.2 |
| 91 | 101.9 | 91.7 | 100 NM_021784.3 |
| 82.9 | 72.2 | 78.1 | 76.1 NM_153675.1 |
| 79.6 | 78 | 70.5 | 89.8 NM_021784.3 |
| 105 | 100.6 | 99.8 | 103.7 NM_004497.2 |
| 102.3 | 91.8 | 92.3 | 85.5 NM_012182.2 |
| 310.1 | 142.6 | 158.1 | 106.1 NM_001453.1 |
| 100.9 | 100.7 | 106.1 | 97.8 NM_005251.1 |
| 1178.8 | 1104.2 | 1341 | 613.7 NM_004472.1 |
| 304.8 | 238.2 | 211.4 | 205.7 NM_004474.2 |
| 94.6 | 94 | 79.9 | 90.9 NM_012183.1 |
| 640 | 454 | 477.5 | 382.6 NM_207305.2 |
| 185.1 | 145.7 | 188.8 | 123 NM_012184.3 |
| 91.2 | 82.1 | 79.3 | 88.1 NM_199135.1 |
| 92.5 | 94.3 | 82.6 | 91.9 NM_199358.1 |
| 102.3 | 101.1 | 94.1 | 95.7 NM_004473.3 |
| 96.6 | 92.2 | 83.7 | 88.9 NM_012186.1 |
| 86.1 | 96.3 | 84.5 | 88.2 NM_012186.1 |
| 85.4 | 91.5 | 87.1 | 87.2 NM_001451.1 |
| 140.7 | 89.2 | 85.5 | 97.8 NM_001452.1 |
| 82.9 | 83.6 | 83 | 74.8 NM_005249.3 |
| 87 | 98.2 | 89.4 | 89 NM_003923.1 |
| 86.4 | 91.2 | 77.3 | 85.3 NM_012188.3 |

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| 99 | 105.3 | 108.3 | 95.9 NM_012188.3 |
| 85.9 | 87.5 | 75.9 | 82.6 NM_001454.2 |
| 616.2 | 578.9 | 641.1 | 304.8 NM_018416.2 |
| 2419.5 | 2223.5 | 2264.4 | 1838.8 NM_014947.3 |
| 954.2 | 1004.3 | 964 | 823.2 NM_001037165.1 |
| 86.1 | 79.6 | 85.7 | 82.7 NM_004514.3 |
| 108.9 | 115.5 | 106.2 | 101.6 NM_004514.3 |
| 96.8 | 83.1 | 89.6 | 84 NM_005250.1 |
| 103.1 | 110.1 | 87 | 97.1 NM_023067.2 |
| 170.1 | 111.7 | 103.7 | 110.1 NM_023067.2 |
| 277.8 | 199.6 | 197.5 | 175 NM_021953.2 |
| 176.5 | 163.3 | 144.9 | 147.8 NM_202002.1 |
| 92.5 | 98.6 | 91.4 | 90.6 NM_003593.2 |
| 90.9 | 89.7 | 94 | 89.5 NM_213596.1 |
| 116.6 | 133.9 | 149.2 | 120.7 NM_002015.2 |
| 85.9 | 83.8 | 83.2 | 77.7 NM_001455.2 |
| 1023.7 | 1840.4 | 1905.9 | 1015.9 NM_001455.2 |
| 88.3 | 102.1 | 97.6 | 87.8 NM_032682.4 |
| 92 | 88.2 | 94.6 | 81.5 NM_001012505.1 |
| 93 | 89.8 | 75.7 | 84.1 NM_001012505.1 |
| 116.7 | 139.9 | 117.3 | 136.1 NM_148898.1 |
| 125.7 | 161.4 | 142.1 | 134.2 NM_014491.1 |
| 92.2 | 83.6 | 80.3 | 80.8 NM_014009.2 |
| 130.7 | 149.3 | 133.8 | 143.7 NM_001012427.1 |
| 97.5 | 90 | 83.9 | 90.3 NM_001012426.1 |
| 99.9 | 92.9 | 94.4 | 100 NM_033260.2 |
| 93.9 | 95.2 | 88.9 | 98.4 NM_181721.2 |
| 92.5 | 92.7 | 91.3 | 88.1 NM_181721.2 |
| 90.9 | 83.4 | 87.5 | 86.6 NM_198451.1 |
| 581.7 | 458.6 | 477 | 266.5 NM_017547.2 |
| 358.1 | 396.5 | 431.5 | 254.6 NM_024955.4 |
| 103.3 | 103.3 | 95.8 | 96.2 NM_004957.4 |
| 93.5 | 92.8 | 80 | 87.3 NM_001018078.1 |
| 91.2 | 92.3 | 87.5 | 92.8 NM_004957.4 |
| 86.8 | 87 | 82.6 | 98.3 NM_003838.2 |
| 94.9 | 208.4 | 132.8 | 124 NM_002029.3 |
| 88.1 | 127.8 | 96.7 | 102.5 NM_001462.3 |
| 80.2 | 137.8 | 95.1 | 112.2 NM_001462.3 |
| 96.5 | 90.2 | 93.6 | 85.6 NM_002030.3 |
| 242.6 | 231.1 | 256.5 | 158.4 NM_014489.1 |
| 526 | 741.5 | 585.2 | 517.5 NM_004958.2 |
| 89 | 91.6 | 82.7 | 82.8 NM_025074.3 |
| 132.8 | 116.4 | 101.5 | 109.3 NM_181355.1 |
| 111.8 | 108.5 | 101.4 | 105.1 NM_005479.2 |
| 1262.9 | 834.7 | 817.5 | 531 NM_012083.2 |
| 76 | 86.6 | 73.3 | 83.6 NM_144966.3 |
| 99.8 | 105.7 | 85.9 | 97.2 NM_207361.4 |
| 271.9 | 174.5 | 165.1 | 125.9 NM_014286.2 |
| 526.5 | 358.8 | 271.1 | 345.6 NM_004477.2 |
| 75.7 | 68.1 | 66.7 | 74 NM_001005217.1 |

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| 75.8 | 77.9 | 82.2 | 83 NM_002031.2 |
| 87.7 | 85.7 | 79.8 | 81.4 NM_024919.2 |
| 93.2 | 121.7 | 118.6 | 95.2 NM_018027.2 |
| 104.8 | 88.7 | 91.8 | 103.4 NM_001031729.1 |
| 94.6 | 101.6 | 92.9 | 87.8 NM_152330.2 |
| 97.3 | 84.3 | 97.4 | 106.6 NM_152330.2 |
| 89 | 91.2 | 83.8 | 91.6 NM_152330.2 |
| 99.9 | 93.5 | 85.9 | 95.8 NM_014907.1 |
| 102.7 | 91.6 | 90.3 | 93.4 NM_152428.3 |
| 90.6 | 96.4 | 84.8 | 92.9 NM_001018071.2 |
| 94.5 | 91.5 | 84.9 | 90.1 NM_001018071.2 |
| 98.5 | 91.7 | 90.1 | 83.6 NM_001017929.1 |
| 80.3 | 85.2 | 81.4 | 86.5 NM_001018071.2 |
| 90.3 | 85.8 | 86.8 | 90.7 XM_937471.1 |
| 113.9 | 92.8 | 95.9 | 98.7 NM_014728.1 |
| 105.1 | 87.3 | 97.1 | 105.8 NM_001013660.1 |
| 98.7 | 91.1 | 87.4 | 100.3 NM_006654.2 |
| 92.9 | 96.2 | 85.8 | 93.4 NM_006654.2 |
| 84.8 | 84.4 | 78.5 | 80.1 NM_006654.2 |
| 219.2 | 250.5 | 259.3 | 135.3 NM_006653.3 |
| 112.2 | 128.8 | 117.1 | 133.9 NM_023037.1 |
| 102.8 | 101.4 | 93.5 | 98.2 NM_015030.1 |
| 107.6 | 87.6 | 87.7 | 93.8 NM_001463.2 |
| 4213.8 | 2855.6 | 2642.5 | 1592 NM_003088.2 |
| 89 | 87.6 | 74.8 | 79 NM_001077182.1 |
| 97.9 | 84.1 | 86.2 | 91.1 NM_012418.1 |
| 99.1 | 81.5 | 96.1 | 89.2 NM_020369.1 |
| 107.2 | 89.2 | 94.5 | 94.2 NM_024333.1 |
| 82.5 | 89.1 | 85 | 85.4 NM_024333.1 |
| 114.9 | 106.1 | 113.3 | 105.4 NM_024333.1 |
| 83.6 | 90.8 | 90.8 | 93.8 NM_207647.1 |
| 107.7 | 115.5 | 106.9 | 97.2 NM_031919.1 |
| 100.7 | 93.5 | 76.9 | 91.4 NM_001007122.1 |
| 97.8 | 88.2 | 87.4 | 84.1 NM_000510.2 |
| 87.2 | 96.9 | 91.6 | 80 NM_000510.2 |
| 88.1 | 88.3 | 82.5 | 83.4 NM_000145.2 |
| 108.1 | 97.3 | 102.8 | 107.9 NM_000145.2 |
| 99.2 | 91 | 94.4 | 97.3 NM_152597.3 |
| 96.9 | 91.5 | 88.4 | 90.5 NM_173651.1 |
| 81.2 | 89.7 | 80.9 | 82.4 NM_006350.2 |
| 191.2 | 183.7 | 152.9 | 149.7 NM_013409.1 |
| 109.7 | 109.4 | 94.6 | 105.6 NM_007085.3 |
| 104.4 | 119.6 | 108.4 | 109.5 NM_005860.1 |
| 85.8 | 76.8 | 78.2 | 89.3 NM_015082.1 |
| 77.3 | 79.7 | 78.5 | 76.8 NM_020116.2 |
| 86.8 | 84.1 | 81.9 | 78.6 NM_206965.1 |
| 84.2 | 88.3 | 81.4 | 80.8 NM_006657.2 |
| 163.3 | 276.6 | 202.5 | 193.5 NR_002204.1 |
| 1145.2 | 1099.5 | 968.5 | 1130.6 NR_002205.1 |
| 84.4 | 74.1 | 75.7 | 81.2 NM_031894.1 |

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| 98.5 | 86.9 | 92.1 | 93.5 NR_002200.1 |
| 341.9 | 353 | 236.8 | 373.5 NR_002201.1 |
| 12727.8 | 12921.4 | 11729.4 | 9900 NR_002202.2 |
| 92.2 | 90.2 | 89.9 | 86.2 NR_002203.1 |
| 57084.3 | 55268.8 | 50855.9 | 46688.7 NM_000146.3 |
| 85.8 | 81 | 80.5 | 89.5 NM_177478.1 |
| 160.9 | 132.5 | 134.9 | 124.6 NM_001080432.1 |
| 104.9 | 90.7 | 83.6 | 88.5 NM_022476.2 |
| 425.5 | 381.8 | 348.4 | 286.4 NM_012280.2 |
| 96.5 | 86.9 | 92.2 | 93.2 NM_177439.1 |
| 166.6 | 151.4 | 137 | 125.5 NM_013393.1 |
| 125.6 | 127.4 | 101.3 | 93.9 NM_017647.2 |
| 268.5 | 213.9 | 179.3 | 163 NM_003902.3 |
| 2027.9 | 1772.2 | 1366.6 | 1226.4 NM_003934.1 |
| 273.3 | 340.8 | 298.3 | 294.7 NM_000147.2 |
| 121.4 | 116.1 | 115.5 | 101.4 NM_032020.3 |
| 184.8 | 209.8 | 208.2 | 148.3 NM_145059.2 |
| 79.1 | 80.3 | 84.4 | 87.4 NM_173794.2 |
| 95.9 | 93.2 | 85.6 | 93 NM_023934.3 |
| 137.1 | 136.2 | 124.5 | 129.4 NM_002569.2 |
| 247.1 | 155.3 | 136.2 | 123.9 NM_004960.2 |
| 83.7 | 82.3 | 82.9 | 84 NM_054016.1 |
| 413.5 | 266.1 | 269.4 | 215.8 NM_054016.1 |
| 84.3 | 93.7 | 77.6 | 83.4 NM_000148.2 |
| 118.8 | 98.6 | 84.3 | 101.9 NM_032664.3 |
| 91.6 | 92.7 | 76.8 | 91.1 NM_173540.1 |
| 75.7 | 69.6 | 75.7 | 68.9 NM_000511.3 |
| 89.7 | 79.4 | 86.7 | 90.9 NM_000149.1 |
| 2485.8 | 1662.2 | 1793.8 | 1166.9 NM_002033.2 |
| 95.4 | 88.5 | 88.6 | 94.8 NM_002034.2 |
| 126.9 | 119.1 | 133.6 | 140.6 NM_000150.2 |
| 103.7 | 98.1 | 100.5 | 93 NM_000150.1 |
| 131 | 134.2 | 123.7 | 116.9 NM_004479.2 |
| 175.3 | 124.4 | 100.7 | 125 NM_178154.1 |
| 106.1 | 91.6 | 97.2 | 85.9 NM_004480.3 |
| 79.1 | 82 | 79.2 | 80.1 NM_006581.2 |
| 336.6 | 278.7 | 296.7 | 343.9 NM_002035.1 |
| 245.3 | 193 | 190.7 | 170.4 NM_012192.2 |
| 139.6 | 125 | 112.1 | 108.1 NM_181425.1 |
| 93.3 | 93.5 | 87 | 93.6 NM_000144.3 |
| 1056.5 | 812.4 | 712.5 | 698.3 NM_001013438.1 |
| 90.4 | 91.6 | 81.6 | 84.4 NM_001013439.1 |
| 888.3 | 936.2 | 739.8 | 665 NM_005087.2 |
| 138 | 190.2 | 153.2 | 155 NM_004860.2 |
| 104.1 | 96.7 | 90 | 96.6 NM_005031.3 |
| 88.4 | 95.3 | 80.9 | 91.7 NM_005031.3 |
| 96.8 | 91.7 | 87.3 | 83.9 NM_021902.2 |
| 108 | 106.6 | 102.4 | 101 NM_001680.3 |
| 82.1 | 77.6 | 77 | 80.4 NM_021603.2 |
| 89.2 | 99.5 | 84.8 | 86 NM_001680.3 |

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| 92.5 | 86.7 | 88.5 | 85.4 NM_001680.3 |
| 84.7 | 79.3 | 84.9 | 89.2 NM_005971.2 |
| 93.8 | 86.4 | 85 | 90.3 NM_021910.1 |
| 100.1 | 91.8 | 86.7 | 91.8 NM_005971.2 |
| 81 | 85.2 | 87.4 | 82.7 NM_173160.2 |
| 1051.2 | 541.6 | 544.7 | 326.3 NM_014164.4 |
| 122.4 | 117 | 107.8 | 109.9 NM_144779.1 |
| 2646.7 | 1585.1 | 1608.2 | 833.4 NM_014164.4 |
| 92.3 | 91.9 | 84.2 | 82 NM_022003.1 |
| 85 | 86.3 | 93.8 | 87.4 NM_022006.1 |
| 87.5 | 99.5 | 95.6 | 93.3 NM_001465.3 |
| 226.2 | 739.7 | 593.4 | 612.5 NM_199335.2 |
| 197.1 | 227 | 230 | 175.3 NM_024513.1 |
| 185.1 | 198.5 | 166.8 | 189 NM_002037.3 |
| 130.9 | 139.3 | 132.3 | 122.8 NM_153048.1 |
| 153.1 | 159.2 | 135.4 | 129.8 NM_153047.1 |
| 120.4 | 172.1 | 144.7 | 150.7 NM_002037.3 |
| 122.9 | 119.7 | 121.2 | 118.6 NM_001011537.1 |
| 228 | 204 | 151.5 | 186.5 NM_032288.5 |
| 113.5 | 109 | 99.5 | 96 NM_032288.5 |
| 120.9 | 135.8 | 117.3 | 115 NM_003505.1 |
| 103.7 | 91.8 | 89.4 | 103.6 NM_007197.2 |
| 291.3 | 349.2 | 325.2 | 230.1 NM_001466.2 |
| 138.9 | 119.3 | 108.3 | 105.8 NM_017412.2 |
| 112.8 | 115.5 | 104.2 | 104 NM_012193.2 |
| 106.8 | 94.3 | 78.8 | 84.2 NM_003468.2 |
| 138.1 | 106.6 | 107.9 | 114.3 NM_003506.2 |
| 206.9 | 201.7 | 220 | 167.7 NM_003507.1 |
| 92.1 | 85.2 | 87.7 | 83.1 NM_031866.1 |
| 471.3 | 276.4 | 261.5 | 157.1 NM_003508.2 |
| 110.6 | 102.7 | 108.5 | 95 NM_016263.2 |
| 83.8 | 98.6 | 89.4 | 95.7 NM_015714.2 |
| 2546 | 1447.8 | 1308.4 | 1336.1 NM_003910.2 |
| 1486.3 | 1023.1 | 839.4 | 665.3 NM_002038.2 |
| 376.6 | 283.2 | 227.1 | 300.9 NM_005754.2 |
| 239.3 | 203.7 | 178.5 | 166.8 NM_198395.1 |
| 92.4 | 93.6 | 88.7 | 83.8 NM_012297.3 |
| 1667.5 | 1226.6 | 859 | 962.5 NM_203504.1 |
| 90 | 86.5 | 86.5 | 84.5 NM_000151.2 |
| 95.8 | 91.7 | 90.6 | 96.4 NM_021176.1 |
| 87.9 | 85.7 | 85.9 | 97.9 NM_021176.1 |
| 81.5 | 83.9 | 77.6 | 81.3 NM_021176.1 |
| 384.1 | 272.7 | 272 | 215 NM_138387.2 |
| 384.9 | 450.6 | 379.2 | 332.8 NM_000402.2 |
| 1389.1 | 1423.3 | 1028.1 | 693.6 NM_000402.3 |
| 86.4 | 86.7 | 84.6 | 84.8 NM_000402.3 |
| 316.9 | 323.8 | 269.5 | 338.2 NM_001079804.1 |
| 180.5 | 196.6 | 173.9 | 175.8 NM_000152.2 |
| 85.1 | 81.1 | 73.3 | 81.6 NM_207123.1 |
| 89.1 | 82.3 | 90.2 | 85.2 NM_002039.2 |

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| 82.8 | 92 | 88.1 | 87.1 NM_207123.1 |
| 185.2 | 373.8 | 368.1 | 274.9 NM_080491.1 |
| 96.9 | 118.6 | 107.5 | 129.4 NM_080491.1 |
| 92.5 | 84.6 | 79.3 | 87.7 NM_012296.2 |
| 122.7 | 133.8 | 121.4 | 128.8 NM_080612.1 |
| 120.1 | 109.7 | 115.3 | 89.4 NM_007278.1 |
| 222.8 | 210 | 182.8 | 195.7 NM_031412.2 |
| 123.6 | 95.8 | 103.9 | 113.4 NM_007285.6 |
| 108.4 | 121.9 | 119 | 94.5 NM_021905.1 |
| 85.1 | 94.9 | 80.7 | 85.2 NM_021903.1 |
| 91.6 | 96.2 | 95.2 | 106.2 NM_021905.1 |
| 229.6 | 653.3 | 582.2 | 651.3 NM_005458.5 |
| 74.8 | 81.3 | 80.5 | 84.2 NM_002040.2 |
| 96.8 | 84.8 | 78.8 | 83.6 NM_002041.3 |
| 379.5 | 205.5 | 182.5 | 182.6 NM_181427.2 |
| 85.9 | 88 | 76.9 | 78.4 NM_000806.3 |
| 94.3 | 90.9 | 90.2 | 92.6 NM_000807.1 |
| 94.3 | 91 | 81.2 | 89.3 NM_000808.2 |
| 82.7 | 85 | 85.5 | 88.3 NM_000809.2 |
| 82.5 | 83.8 | 78.6 | 92.3 NM_000810.2 |
| 84.9 | 87.5 | 82.6 | 93.2 NM_000811.1 |
| 81.9 | 87.9 | 83.1 | 90.7 NM_000812.2 |
| 83 | 82.6 | 83.1 | 83.7 NM_021911.1 |
| 85.7 | 93.7 | 92.4 | 89.5 NM_021911.1 |
| 92.2 | 88.7 | 82.9 | 92.4 XM_937254.1 |
| 91.5 | 97 | 85.8 | 89.7 XM_937254.1 |
| 107.2 | 100 | 90.4 | 89.1 NM_000814.3 |
| 87.8 | 87.3 | 88 | 87.1 NM_000814.3 |
| 91.5 | 95.6 | 78.6 | 86.6 NM_000815.2 |
| 105.5 | 99.9 | 99 | 88.7 NM_004961.3 |
| 85.4 | 84.8 | 77.9 | 93.1 NM_021990.2 |
| 103.7 | 102.3 | 106 | 100.3 NM_021990.2 |
| 98 | 82.7 | 83.7 | 96.2 NM_173536.3 |
| 97.8 | 109.1 | 105.3 | 104.3 NM_198904.1 |
| 162.9 | 139.6 | 151.7 | 137.3 NM_000816.2 |
| 91.4 | 84.9 | 92.3 | 84.1 NM_033223.1 |
| 83 | 77.2 | 72.2 | 80.9 NM_018558.1 |
| 86.8 | 78.7 | 87.9 | 81.3 NM_002042.2 |
| 83.5 | 89.2 | 79.7 | 82.7 NM_002043.1 |
| 69.2 | 73.6 | 73.8 | 82.3 NM_013445.3 |
| 90.7 | 89 | 86.2 | 96.2 NM_013445.3 |
| 75.1 | 83.8 | 85 | 83.4 NM_000817.2 |
| 89.6 | 96 | 96.6 | 84.6 NM_000818.1 |
| 410.9 | 401.8 | 385.1 | 312 NM_001924.2 |
| 118.6 | 112.7 | 102.5 | 97.8 NM_015675.1 |
| 83.3 | 105.2 | 103.7 | 90.8 NM_006705.2 |
| 94.9 | 81.5 | 89.2 | 95.6 NM_052850.2 |
| 97.3 | 96.6 | 93 | 93.9 NM_207359.1 |
| 92.2 | 86.6 | 87.9 | 92.4 XM_937755.1 |
| 99.6 | 91.3 | 86.5 | 88.5 NM_001468.3 |

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| 104.8 | 105.6 | 106.5 | 99.6 NM_001468.3 |
| 110 | 100 | 99.6 | 105 NM_001472.2 |
| 93.7 | 92.3 | 92.2 | 86 NM_001474.1 |
| 93.2 | 80.9 | 80.2 | 79.4 NM_001475.1 |
| 93.6 | 87.9 | 82.3 | 91.8 NM_001476.1 |
| 88.9 | 95 | 94.3 | 96.7 NM_021123.1 |
| 86.3 | 77.1 | 85.6 | 86.9 NM_001477.1 |
| 79.7 | 79.7 | 81.7 | 88.9 NM_012196.1 |
| 2045.2 | 1891.9 | 2158.5 | 754.8 NM_005255.1 |
| 988.2 | 468.3 | 366.5 | 357.9 NM_015973.2 |
| 90.1 | 91.8 | 83.6 | 90.9 NM_004861.1 |
| 120.6 | 107.2 | 103.4 | 111.2 NM_022134.1 |
| 96.6 | 97.3 | 93.2 | 95.9 NM_033036.1 |
| 84.6 | 80.1 | 82.1 | 87.7 NM_024637.3 |
| 151.8 | 128.2 | 111.7 | 103.8 NM_001037525.1 |
| 645.4 | 643 | 540.9 | 475.8 NM_000153.1 |
| 91.4 | 82.7 | 83 | 84.6 NM_001008216.1 |
| 169.9 | 173.2 | 184.5 | 136.5 NM_000403.3 |
| 106.4 | 92.3 | 95.3 | 103.5 NM_000403.3 |
| 126.1 | 97.4 | 80.9 | 87.8 NM_001478.2 |
| 103.5 | 91.8 | 90.9 | 103.6 NM_194327.1 |
| 3013.4 | 2509.6 | 2317.7 | 1319.6 NM_000154.1 |
| 321.4 | 275.9 | 232.1 | 228.1 NM_002044.2 |
| 174.4 | 239.9 | 277.1 | 249.5 NM_001001556.1 |
| 115.2 | 106.1 | 104 | 106.1 NM_001001556.1 |
| 328 | 390 | 366.2 | 328.9 NM_138801.1 |
| 74.8 | 74.5 | 80.8 | 69.5 NM_015892.2 |
| 92.3 | 78.2 | 78.2 | 95 NM_018590.3 |
| 99 | 104.2 | 87.7 | 102.7 NM_000512.3 |
| 97.7 | 83 | 93.4 | 93.6 NM_020474.2 |
| 95.8 | 99 | 81.8 | 93.4 NM_198321.2 |
| 125.3 | 113.2 | 113.2 | 106.3 NM_198321.2 |
| 106 | 116.5 | 109.8 | 101.3 NM_017540.3 |
| 211.7 | 292.3 | 251.6 | 256.4 NM_022087.1 |
| 285.3 | 357.7 | 301.5 | 265.4 NM_024642.2 |
| 103.5 | 88.8 | 90.1 | 96 NM_052917.1 |
| 105.3 | 92.3 | 90.9 | 86.7 NM_024572.2 |
| 107.8 | 98.1 | 91.9 | 99.1 NM_001034845.1 |
| 96.3 | 106.6 | 92.7 | 98.5 NM_004481.2 |
| 148.3 | 182.2 | 202.6 | 182.5 NM_004482.2 |
| 120 | 129.8 | 113.5 | 96.8 NM_003774.3 |
| 88.1 | 79.7 | 76.6 | 82.9 NM_014568.1 |
| 106.9 | 123.9 | 114.2 | 112.3 NM_007210.2 |
| 91.3 | 85.5 | 82.9 | 85.4 NM_017423.1 |
| 89.5 | 87.2 | 90.4 | 78.2 NM_017417.1 |
| 81.4 | 86.2 | 82.2 | 85.7 NM_021808.2 |
| 74.3 | 75 | 72.1 | 70.1 NM_021808.2 |
| 105.5 | 93.5 | 89 | 91.1 NM_020692.1 |
| 81.6 | 83.4 | 92.8 | 80.3 NM_054110.2 |
| 92 | 83.6 | 78.4 | 91.4 NM_198516.1 |

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| 84.5 | 76.9 | 83.4 | 78 NM_145292.2 |
| 84.5 | 92.1 | 76.3 | 86.9 NM_033106.1 |
| 98.3 | 93.5 | 82.9 | 91.4 NM_001480.2 |
| 436.4 | 199.2 | 212.6 | 111.2 NM_003857.2 |
| 99.1 | 89.1 | 87.2 | 86.1 NM_003614.1 |
| 580.3 | 435.5 | 470.5 | 263 NM_000155.2 |
| 230 | 185.9 | 204.1 | 171.5 NM_000155.2 |
| 1471.5 | 1003.6 | 1106.6 | 566 NM_000156.4 |
| 82.4 | 90 | 75.4 | 92.3 NM_138924.1 |
| 891.6 | 563.2 | 537.6 | 483.2 NM_000156.4 |
| 96.6 | 96.7 | 85 | 94.4 NM_022041.2 |
| 370.3 | 361.9 | 319.5 | 202.8 NM_198334.1 |
| 102.2 | 93.8 | 83.7 | 84.7 NM_198141.2 |
| 88.6 | 84.2 | 88.1 | 90.1 NM_002045.2 |
| 3062.4 | 2090.5 | 2099.7 | 1359.3 NM_002046.2 |
| 772.2 | 556 | 432.2 | 404.2 NM_002046.2 |
| 8093.6 | 5118.2 | 4547.2 | 3140.2 NM_002046.2 |
| 89.9 | 90.2 | 85 | 85.8 NM_014364.4 |
| 773.6 | 812.9 | 773.6 | 566.4 NM_015635.2 |
| 199.3 | 176.6 | 193.2 | 168 NM_194301.2 |
| 89.4 | 102.8 | 104 | 92.4 NM_032293.3 |
| 146.7 | 160.1 | 175.2 | 140.7 NM_015085.3 |
| 3627.2 | 2329.8 | 1552.7 | 1711.6 NM_002047.1 |
| 1505 | 1342 | 914.7 | 888.3 NM_000819.3 |
| 401.6 | 274.7 | 224.4 | 201.1 NM_175085.1 |
| 96.4 | 98.4 | 89.2 | 98.2 NM_175085.1 |
| 106.4 | 85.1 | 97.8 | 87.8 NM_002048.1 |
| 87.9 | 89.2 | 78.2 | 87 NM_177553.1 |
| 83.9 | 82.1 | 73.6 | 88.9 NM_177553.1 |
| 99 | 96.7 | 94.6 | 101.1 NM_006478.3 |
| 93.8 | 116.8 | 92.9 | 89.9 NM_152236.1 |
| 94.2 | 92.3 | 93.8 | 81.1 NM_152237.1 |
| 86.7 | 88.9 | 86.8 | 95 NM_139285.2 |
| 176.2 | 192.1 | 179.3 | 146.5 NM_174942.1 |
| 820.1 | 1286.4 | 1081.2 | 1035.9 NM_000820.1 |
| 833.9 | 1355.7 | 1159.4 | 1061.9 XM_942084.1 |
| 138.3 | 151 | 151.7 | 122.2 NM_000820.1 |
| 95.9 | 87.9 | 92.2 | 89.2 NM_201432.1 |
| 152.1 | 193 | 215.9 | 173.7 NM_201432.1 |
| 98.5 | 96.1 | 89.9 | 96.7 NM_201433.1 |
| 113.6 | 105.6 | 100.7 | 105.6 NM_003644.2 |
| 230.4 | 186.5 | 173.2 | 171.1 NM_001481.1 |
| 126.3 | 100.1 | 100.9 | 103.6 NM_000805.3 |
| 94.6 | 88.5 | 91.4 | 98.1 NM_002049.2 |
| 191.4 | 126.8 | 124.5 | 112 NM_032638.3 |
| 102.1 | 86.2 | 88.6 | 86.3 NM_002051.2 |
| 90.7 | 85.5 | 84.1 | 82.4 NM_002052.2 |
| 90.6 | 83.6 | 85.5 | 100.6 NM_080473.3 |
| 86.9 | 84.2 | 88 | 82.2 NM_005257.3 |
| 157.6 | 168.5 | 182.1 | 177.6 NM_021167.2 |

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| 1375.2 | 1232.3 | 1100.2 | 714.3 | NM_017660.2 |
| 248 | 251.6 | 208.8 | 261.8 | NM_020699.1 |
| 231.8 | 240.2 | 214.5 | 167.5 | NM_001482.1 |
| 148.4 | 218.9 | 236.6 | 185.4 | NM_178831.4 |
| 836.2 | 745.4 | 728 | 562.9 | NM_001005742.1 |
| 182.9 | 190.1 | 168.2 | 137.5 | NM_020944.2 |
| 98.3 | 94.9 | 91.8 | 98.3 | NM_020973.2 |
| 660.8 | 459.1 | 472.2 | 529.1 | NM_001483.1 |
| 530.9 | 661.5 | 532.4 | 549.6 | NM_000158.1 |
| 160.9 | 213 | 166.6 | 186.3 | NM_004193.1 |
| 148.9 | 107.5 | 104.9 | 90.8 | NM_021996.3 |
| 343.1 | 255.1 | 240.2 | 222.7 | NM_022372.2 |
| 85.9 | 97.3 | 88.4 | 95.2 | NM_002053.1 |
| 174.6 | 227.7 | 222.5 | 191.5 | NM_004120.3 |
| 124.5 | 115.8 | 102.6 | 110.8 | NM_018284.1 |
| 97.5 | 105.3 | 93.1 | 100.6 | NM_052941.2 |
| 102.1 | 118 | 110.6 | 106.7 | NM_052942.2 |
| 90.5 | 84.8 | 73.6 | 79.4 | NM_198460.1 |
| 87.4 | 81.1 | 81.1 | 82.1 | NM_207398.1 |
| 106.5 | 98.8 | 94 | 93.4 | NM_001485.2 |
| 81.9 | 76.5 | 80.5 | 78.3 | NM_000583.2 |
| 440.2 | 440.5 | 442.9 | 399 | NM_012198.2 |
| 182 | 206.7 | 184.9 | 216.1 | NM_014291.2 |
| 281.8 | 280.5 | 287.8 | 257.5 | NM_024523.5 |
| 92.8 | 88.8 | 87.3 | 95.7 | NM_014635.3 |
| 87.8 | 80.4 | 80.8 | 90.8 | NM_181453.2 |
| 97.8 | 96.7 | 82.7 | 103.5 | NM_014635.3 |
| 128.4 | 137.8 | 126.4 | 142.6 | NM_013976.2 |
| 239.5 | 210.5 | 180 | 151.2 | NM_000159.2 |
| 88 | 95 | 80.8 | 80.2 | NM_001008756.1 |
| 92.6 | 78.2 | 82.9 | 82 | NM_001008756.1 |
| 109.2 | 94.4 | 90.7 | 93.2 | NM_002054.2 |
| 98.6 | 105.5 | 89 | 90.8 | NM_000160.1 |
| 96.9 | 85.1 | 93 | 86.2 | NM_001024024.1 |
| 94 | 87.4 | 85.5 | 86.6 | NM_001024070.1 |
| 86.8 | 78.9 | 75.1 | 88.3 | NM_000161.2 |
| 385.6 | 281.1 | 302.8 | 235.3 | NM_005258.2 |
| 79.7 | 82.4 | 78.3 | 87.6 | NM_000162.2 |
| 88.3 | 89.3 | 89.5 | 85.4 | NM_033508.1 |
| 83.3 | 90.4 | 81.6 | 83.4 | NM_033508.1 |
| 95.3 | 100.1 | 84 | 84.2 | NM_001486.2 |
| 103.4 | 92.3 | 83.7 | 92.8 | NM_001498.2 |
| 657.2 | 623.9 | 528.6 | 499.2 | NM_002061.2 |
| 103.4 | 95.3 | 110.5 | 95.5 | NM_003643.2 |
| 99.1 | 89.4 | 88.3 | 81.9 | NM_004752.1 |
| 255.2 | 309.8 | 255.8 | 245.4 | NM_006836.1 |
| 768.5 | 911.6 | 1008.9 | 506.4 | NM_021078.1 |
| 76.8 | 92.7 | 83.1 | 76.1 | NM_001490.3 |
| 90.4 | 87.9 | 95.4 | 92.7 | NM_145649.2 |
| 93.1 | 90.8 | 85.2 | 88.8 | NM_145655.2 |

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| 103.5 | 129.9 | 124.5 | 115.6 NM_001491.2 |
| 92.5 | 92.1 | 91.7 | 101.3 NM_001491.2 |
| 88.9 | 83.9 | 82.8 | 89.3 NM_004751.1 |
| 94.2 | 93.5 | 84.6 | 97 NM_001018100.1 |
| 100 | 91.9 | 99.1 | 98.9 NM_001018090.1 |
| 92.7 | 83.9 | 94.4 | 91.8 NM_001018096.1 |
| 101.2 | 109.7 | 87.4 | 103.6 NM_001018097.1 |
| 186 | 193.1 | 153.5 | 155.9 NM_006302.1 |
| 250.2 | 201.9 | 195 | 159.7 NM_004483.3 |
| 82.7 | 88.7 | 72.4 | 80.7 NM_004293.2 |
| 92.8 | 85.8 | 94.7 | 84.4 NM_018972.1 |
| 114.1 | 100.2 | 87.2 | 99.7 NM_018972.1 |
| 88.8 | 80.8 | 86.6 | 86.5 NM_024034.3 |
| 207.8 | 157.8 | 143.1 | 128.6 NM_017686.1 |
| 98.9 | 102.9 | 90.2 | 91.7 NM_182536.2 |
| 88.6 | 85.5 | 90 | 93.6 NM_001492.3 |
| 86.8 | 89 | 82.1 | 84.6 NM_004962.2 |
| 84.8 | 72.1 | 80.3 | 80.7 NM_005811.2 |
| 105.7 | 114.6 | 112 | 101.1 NM_004864.1 |
| 83.6 | 88.2 | 75 | 93 NM_016204.1 |
| 110.9 | 105.2 | 99.2 | 102.5 NM_020634.1 |
| 97.3 | 84.9 | 92.1 | 94.5 NM_000557.2 |
| 78.8 | 78.6 | 74.8 | 81 NM_001001557.1 |
| 101 | 102.7 | 96.6 | 95.1 NM_182828.2 |
| 96.1 | 98.4 | 85 | 102 NM_005259.1 |
| 99.6 | 90.9 | 94.8 | 87.6 NM_005260.2 |
| 249 | 233.1 | 171.6 | 215.1 NM_001493.1 |
| 1165.9 | 801.1 | 620.1 | 626.2 NM_001494.2 |
| 87.2 | 81.2 | 90.1 | 90.5 NM_199231.1 |
| 77.7 | 84.1 | 83.4 | 83.3 NM_199234.1 |
| 89.1 | 79.2 | 88.4 | 87 NM_000514.2 |
| 147.8 | 167 | 204.2 | 168.7 NM_182569.1 |
| 93.4 | 94.4 | 93.1 | 87.3 NM_017711.2 |
| 112.6 | 137.9 | 140.8 | 126.4 NM_001031718.1 |
| 92.6 | 86.6 | 77 | 85.2 NM_024307.1 |
| 94.5 | 91.2 | 93.8 | 98.9 NM_182833.1 |
| 157.5 | 190.9 | 188 | 184 NM_030792.4 |
| 91 | 91 | 88.6 | 92.5 NM_133483.1 |
| 102.1 | 92.4 | 88.3 | 83.4 NM_182947.1 |
| 105.5 | 107.7 | 98.8 | 84.8 NM_182947.1 |
| 91.2 | 80.1 | 81.9 | 73.1 NM_181702.1 |
| 96 | 84.1 | 95.5 | 94.8 NM_005261.2 |
| 818.5 | 570.4 | 558.6 | 290.8 NM_015721.1 |
| 217.2 | 172 | 143.3 | 144.2 NM_015465.1 |
| 890.5 | 594.8 | 451.7 | 356.2 NM_024775.9 |
| 93.5 | 86.2 | 86.3 | 80.3 NM_024707.2 |
| 95.5 | 90.4 | 79.6 | 94.4 NM_001007269.1 |
| 111.6 | 123.4 | 105.9 | 100 NM_001042480.1 |
| 121.6 | 117.1 | 108.6 | 109.7 NM_003943.1 |
| 93 | 89.8 | 82.6 | 92.1 NM_002055.2 |

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| 82.3 | 101.3 | 67 | 71.5 NM_005262.2 |
| 1657.9 | 1116.1 | 869 | 772.4 NM_005263.2 |
| 97.1 | 92.7 | 97.2 | 97.9 NM_004188.2 |
| 769.1 | 584.5 | 586.5 | 506.8 NM_024996.5 |
| 89.7 | 95.9 | 90.9 | 100.3 NM_170681.1 |
| 149.9 | 162.8 | 163.9 | 132.9 NM_018988.1 |
| 302.1 | 292.2 | 275.4 | 270.4 NM_002056.1 |
| 101.6 | 92.7 | 103.1 | 109.4 NM_005110.1 |
| 84.9 | 93.8 | 90.3 | 88.3 NM_005264.3 |
| 101.6 | 92.2 | 85.7 | 91.2 NM_005264.3 |
| 95.1 | 95 | 95.8 | 92.9 NM_005264.2 |
| 145.3 | 200.9 | 175.7 | 145.3 NM_001495.4 |
| 107.9 | 106.1 | 106.5 | 115.2 NM_001496.3 |
| 86.8 | 89.4 | 85.6 | 95 NM_022139.2 |
| 116.1 | 126.2 | 99.7 | 108.7 NM_145762.1 |
| 96 | 107.4 | 89.7 | 96.3 NM_013365.3 |
| 17086.1 | 19473.2 | 20705.6 | 19235.4 NM_001001561.1 |
| 105 | 103.5 | 125.3 | 111.6 NM_001001560.1 |
| 102.3 | 116.1 | 115.9 | 120 NM_001001561.1 |
| 446.4 | 581.1 | 631.9 | 402.8 NM_015044.3 |
| 206.6 | 166.6 | 182.5 | 149.9 NM_014001.2 |
| 204.4 | 202 | 193.6 | 166.6 NM_138619.1 |
| 75.6 | 96.7 | 77.2 | 80.4 NM_138619.1 |
| 148.1 | 158.6 | 173.4 | 141.3 NM_000821.3 |
| 395.1 | 158.1 | 215.2 | 174 NM_003878.1 |
| 88.3 | 82.9 | 75.7 | 85.9 NM_152657.3 |
| 116.4 | 137.4 | 127.3 | 114.1 NM_001037278.1 |
| 1216.3 | 944.6 | 782 | 929.8 NM_004837.2 |
| 99.7 | 107.4 | 104.3 | 95.8 NM_013430.2 |
| 183 | 235.1 | 195.7 | 200.5 NM_005265.2 |
| 106.4 | 109.3 | 98.5 | 93.6 NR_003267.1 |
| 101.2 | 96 | 95.6 | 97.1 NM_153338.1 |
| 74.7 | 85.1 | 85.1 | 79.8 NR_003191.1 |
| 84.4 | 109.6 | 99 | 105.9 NM_178025.1 |
| 136.3 | 155.7 | 130 | 130.9 NM_199127.1 |
| 96 | 88.9 | 85.9 | 87.7 NM_004121.1 |
| 100.5 | 95.7 | 101.4 | 101.7 NM_178311.1 |
| 99.3 | 108.2 | 105.3 | 89.8 NM_178312.1 |
| 102 | 95.7 | 95.2 | 87.7 NM_080920.2 |
| 93 | 88.1 | 87.7 | 85.7 NM_022562.2 |
| 85.8 | 84.3 | 80.9 | 79.8 NM_022560.2 |
| 88.6 | 79.9 | 79.7 | 82.7 NM_022557.2 |
| 98.5 | 86 | 80.8 | 86.5 NM_022558.2 |
| 95.1 | 91.4 | 85.9 | 85 NM_022556.2 |
| 6531.4 | 4264.8 | 3898.7 | 2954.8 NM_014394.1 |
| 80.1 | 77.9 | 77.5 | 78.6 NM_000163.2 |
| 83.9 | 89.8 | 78 | 82.5 NM_021081.3 |
| 87.9 | 81.2 | 72.7 | 75.7 NM_001009824.1 |
| 95.4 | 77 | 69.9 | 87.1 NM_001009824.1 |
| 83.5 | 77 | 77.5 | 71.6 NM_000823.2 |

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| 128.3 | 147 | 187.2 | 157.1 NM_016362.2 |
| 90.9 | 80.4 | 85.8 | 89.8 NM_004122.1 |
| 89.4 | 89 | 85.2 | 88.2 NM_198407.1 |
| 85.4 | 91.8 | 81.8 | 89.5 NM_005142.2 |
| 91.4 | 81.5 | 85.8 | 84 NM_130759.2 |
| 179.3 | 155.7 | 154.2 | 155.4 NM_015660.2 |
| 85.1 | 100.5 | 106.2 | 95.5 NM_018326.2 |
| 165 | 134.3 | 160.2 | 135.6 NM_018384.3 |
| 83.3 | 78.2 | 72.4 | 85.5 NM_024711.3 |
| 336.7 | 277.1 | 213.4 | 219.1 NM_001007224.1 |
| 86.7 | 83.5 | 80.4 | 92.2 NM_153236.3 |
| 110.4 | 151.1 | 131.3 | 126 NM_175571.2 |
| 81.7 | 86.1 | 84.7 | 78.2 NM_153257.2 |
| 87.8 | 78.9 | 93 | 82.6 NM_004123.2 |
| 101 | 88.3 | 74.9 | 100.5 NM_005716.2 |
| 565.5 | 421.3 | 320.1 | 320.9 NM_202468.1 |
| 89.8 | 90.1 | 78.6 | 86.4 NM_017655.4 |
| 83.1 | 82.1 | 77.1 | 80.2 NM_133261.1 |
| 80.8 | 85.6 | 96.5 | 90.1 NM_000164.2 |
| 129.6 | 145.5 | 126.8 | 145 NM_014030.2 |
| 289.4 | 303.8 | 265.9 | 223.6 NM_139201.1 |
| 157.4 | 152.6 | 157 | 136 NM_014776.2 |
| 183 | 148.9 | 140 | 119.3 NM_001014999.1 |
| 159.5 | 106.8 | 105.2 | 110.3 NM_001014999.1 |
| 81.6 | 73.2 | 72.1 | 74.5 NM_178044.1 |
| 85.6 | 80.9 | 83.9 | 83.2 NM_000165.2 |
| 92.3 | 81.4 | 85 | 94 NM_030772.3 |
| 112.2 | 112.2 | 122.8 | 91.3 NM_020435.2 |
| 92.1 | 93.1 | 87.3 | 91.5 NM_021954.2 |
| 93.2 | 88 | 87.6 | 83.7 NM_002060.2 |
| 100.7 | 98.5 | 93.2 | 91.1 NM_005266.4 |
| 98.3 | 102.6 | 99.2 | 87.5 NM_181703.1 |
| 90.5 | 82.7 | 83 | 89.1 NM_005497.2 |
| 4047.4 | 7292.4 | 9294.3 | 7138.3 NM_005497.2 |
| 98.6 | 100.5 | 97.7 | 99.9 NM_005267.3 |
| 94.8 | 89.8 | 90.3 | 81.9 NM_000166.2 |
| 93.4 | 87.3 | 92.7 | 89.5 NM_004004.3 |
| 90.5 | 94.1 | 86.3 | 86.4 NM_001005752.1 |
| 82 | 86.2 | 83.3 | 87.9 NM_001005752.1 |
| 96.4 | 89.2 | 82.7 | 89.3 NM_024009.2 |
| 85.8 | 75.2 | 74.9 | 82.1 NM_153212.1 |
| 77.6 | 81.2 | 71.3 | 73.4 NM_005268.2 |
| 79.5 | 79 | 77.3 | 80.1 NM_006783.2 |
| 98.9 | 83.2 | 88.6 | 91.6 NM_198568.1 |
| 136.4 | 153.8 | 125.9 | 115.4 NM_152219.2 |
| 88.6 | 92.2 | 90.9 | 80.7 NM_181538.1 |
| 224.5 | 232.6 | 209.5 | 188.9 NM_203391.1 |
| 183.6 | 145.7 | 151 | 133.5 NM_033214.2 |
| 89.6 | 90 | 86.8 | 92.6 NM_025211.2 |
| 93.8 | 92.7 | 93.3 | 89.7 NM_019617.2 |

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| 3799.7 | 3414.8 | 2982.4 | 2184.2 | NM_000169.1 |
| 2347.2 | 2751.2 | 2508.2 | 1700.7 | NM_001079811.1 |
| 92.8 | 89.4 | 84.3 | 89.7 | NM_001079811.1 |
| 1949 | 2341.5 | 2240.6 | 1614.1 | NM_000404.1 |
| 101.4 | 94.8 | 100.3 | 92.7 | NM_024506.3 |
| 153 | 174 | 160.8 | 178.2 | NM_138426.1 |
| 178.1 | 203.8 | 171.2 | 170.3 | NM_015554.1 |
| 413.2 | 116.5 | 112.3 | 94.7 | NM_000170.1 |
| 83.4 | 85.1 | 74.3 | 85.7 | NM_181789.1 |
| 1223.9 | 950.3 | 769.9 | 567.1 | NM_001003722.1 |
| 197.3 | 177.3 | 146.5 | 147.3 | NM_001499.2 |
| 970.6 | 952.3 | 906.2 | 553.9 | NM_012201.4 |
| 132.4 | 107.5 | 104.6 | 101.1 | NM_005269.1 |
| 92.2 | 91.4 | 85.6 | 87.9 | NM_005270.2 |
| 103.1 | 100.9 | 95.3 | 91.3 | NM_000168.2 |
| 116.4 | 113.2 | 106.1 | 98.9 | NM_138465.3 |
| 236.3 | 492.3 | 417.6 | 282.8 | NM_006851.1 |
| 94.9 | 84.1 | 92.8 | 90.4 | NM_147193.1 |
| 86.3 | 81.5 | 83.2 | 84.2 | NM_032575.1 |
| 90.4 | 86.2 | 79.8 | 93.8 | NM_152629.2 |
| 85.6 | 82.5 | 83 | 86.2 | NM_152629.2 |
| 89.9 | 88.6 | 78.2 | 83.3 | NM_152629.2 |
| 95.7 | 94.7 | 85.4 | 91.7 | NM_053274.1 |
| 588.6 | 645.6 | 639.8 | 523.1 | NM_053274.1 |
| 17981.4 | 14369.7 | 9612.3 | 10045.4 | NM_006708.1 |
| 171.8 | 105.3 | 113.1 | 99.9 | NM_032756.2 |
| 91.2 | 89.7 | 83 | 89.4 | NM_002062.2 |
| 77.2 | 87.1 | 82.5 | 77.7 | NM_004246.1 |
| 84.4 | 87.9 | 85.8 | 81.4 | NM_000171.1 |
| 77.5 | 79.8 | 72.2 | 84.6 | NM_002063.2 |
| 95.4 | 97.2 | 84 | 96.7 | NM_006529.1 |
| 87.5 | 91.8 | 82.4 | 90 | NM_001042543.1 |
| 169.3 | 188.3 | 170.4 | 162.7 | NM_000824.2 |
| 349.2 | 514 | 334.6 | 396.1 | NM_002064.1 |
| 410.7 | 297 | 322.3 | 232.2 | NM_197962.1 |
| 96.8 | 95.5 | 94.3 | 94.3 | NM_016066.3 |
| 351.5 | 247.9 | 180.4 | 227.8 | NM_016066.3 |
| 4592.9 | 3235.4 | 3110.8 | 1973.5 | NM_016417.2 |
| 198.9 | 175.1 | 190.8 | 151 | NM_014905.2 |
| 88.7 | 73.9 | 79.4 | 74.9 | NM_013267.2 |
| 95.6 | 88.8 | 83.1 | 87.3 | NM_013267.2 |
| 89.4 | 86.3 | 82.3 | 73.1 | NM_144669.1 |
| 3313.7 | 2418.3 | 2235.8 | 1416.9 | NM_024656.2 |
| 108.7 | 120.7 | 109.3 | 111.1 | NM_015101.1 |
| 99.9 | 90.5 | 77.4 | 97.3 | NM_182974.1 |
| 126.1 | 109.2 | 129.5 | 105.6 | NM_152932.1 |
| 93.4 | 99.9 | 94.4 | 88.1 | NM_152932.1 |
| 98.3 | 91.4 | 90.5 | 99.3 | NM_018446.2 |
| 104.1 | 89 | 89.8 | 95.6 | NM_001010983.1 |
| 93.3 | 86.8 | 83.1 | 89.5 | NM_031302.2 |

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| 950.5 | 825.8 | 687.1 | 465 NM_016433.3 |
| 204.9 | 192.8 | 183.8 | 140.8 NM_015711.1 |
| 8944.2 | 8185.2 | 7610 | 5466.7 NM_015710.3 |
| 1282.9 | 1014.6 | 847.8 | 679 NM_005271.1 |
| 132.9 | 110.2 | 121.7 | 97.9 NM_012084.3 |
| 138.1 | 125.5 | 121.1 | 94.5 NM_001033056.1 |
| 104.6 | 104.5 | 88.9 | 101 NM_002065.4 |
| 90.9 | 100.6 | 89.2 | 93.3 NM_001033044.1 |
| 88.3 | 85.3 | 90.6 | 93.7 NM_016571.1 |
| 82.8 | 90 | 81.8 | 92.6 NM_005838.2 |
| 97.1 | 87.6 | 83 | 85.2 NM_005838.2 |
| 77.1 | 77 | 79 | 74.4 NM_201648.1 |
| 97 | 95.6 | 103.4 | 92.6 NM_080661.2 |
| 82.4 | 85.5 | 82.8 | 83.2 NM_145016.2 |
| 92.1 | 81.1 | 75.7 | 95.1 NR_003039.1 |
| 122.7 | 112.4 | 101.4 | 99.3 NM_145262.2 |
| 142.6 | 177.3 | 145.7 | 171.3 NM_000405.3 |
| 189 | 236.5 | 233.8 | 128 NM_020713.1 |
| 452.6 | 416.8 | 346.4 | 372.4 NM_178439.3 |
| 87.3 | 96.7 | 90.4 | 99 NM_022471.2 |
| 699 | 627.5 | 685.2 | 358.1 NM_001500.2 |
| 191.9 | 180.1 | 153.4 | 157 NM_006582.2 |
| 221.5 | 199.8 | 183.5 | 164.7 NM_024482.1 |
| 448.5 | 432.9 | 402.1 | 295.3 NM_012384.2 |
| 2068.5 | 1409.5 | 1423 | 1108.2 NM_004124.2 |
| 1720.1 | 1053.9 | 956.3 | 867.8 NM_004877.1 |
| 202.6 | 215.9 | 195.3 | 187.1 NM_016573.1 |
| 91.5 | 78.1 | 82.9 | 84 NM_002066.1 |
| 324.1 | 254.3 | 222.9 | 228.3 NM_015895.3 |
| 517.3 | 531.8 | 435.7 | 337.1 NM_013335.2 |
| 112.5 | 109.9 | 107.6 | 104.8 NM_205847.1 |
| 370.3 | 285.6 | 227.4 | 204.9 NM_021971.1 |
| 135.4 | 122.1 | 136.1 | 105.4 NM_021971.1 |
| 101.1 | 93.7 | 87.7 | 79.9 NM_013334.2 |
| 96.6 | 92.1 | 93.2 | 89.2 NM_006877.2 |
| 322.7 | 236.8 | 247.1 | 220.4 NM_001002002.1 |
| 91.3 | 88.9 | 84.4 | 95.3 NM_016576.3 |
| 803.2 | 482.6 | 512.4 | 431.6 NM_001002000.1 |
| 175.9 | 174.4 | 159.1 | 189.5 NM_002067.1 |
| 406.7 | 415.1 | 408.5 | 290.2 NM_007353.2 |
| 205.5 | 180.5 | 186.4 | 217.4 NM_006572.3 |
| 125.1 | 134 | 113.2 | 121 NM_004297.2 |
| 999.1 | 855.7 | 825 | 489.2 NM_002068.1 |
| 84.7 | 89.7 | 90.9 | 95.2 NM_002069.4 |
| 1724.3 | 1917.5 | 1695.3 | 1546.5 NM_002070.2 |
| 328.9 | 189.5 | 175.5 | 188.5 NM_006496.1 |
| 78.1 | 90.2 | 82.3 | 76.1 NM_182978.1 |
| 96.1 | 86.8 | 92.7 | 99.5 NM_182978.1 |
| 93.6 | 85.7 | 80.7 | 84 NM_020988.1 |
| 102.8 | 95.6 | 85.9 | 94.2 NM_138736.1 |

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| 88.6 | 85.1 | 88.5 | 89.2 NM_138736.1 |
| 239.4 | 281.8 | 231.5 | 240.5 NM_002072.2 |
| 115.4 | 123.7 | 108.2 | 97.9 NM_016592.1 |
| 84.1 | 86 | 76.7 | 93.2 NM_080425.1 |
| 9422.6 | 11103.1 | 8876.1 | 6966.1 NM_000516.3 |
| 97 | 91 | 92.4 | 97.7 NM_144499.1 |
| 98.4 | 110.7 | 93.6 | 92.5 NM_000172.2 |
| 101.4 | 100.3 | 80.4 | 95.5 NM_005272.2 |
| 81.9 | 90.8 | 81.8 | 89.6 NM_002073.2 |
| 4377 | 3544.1 | 3078.7 | 2271.6 NM_002074.2 |
| 145.3 | 108.7 | 107.6 | 90.9 NM_053004.1 |
| 161.2 | 156.5 | 128.6 | 132.9 NM_005273.2 |
| 19379.6 | 17292.9 | 18167.7 | 12753.8 NM_006098.3 |
| 86.4 | 88.9 | 79.3 | 85.2 NM_002075.2 |
| 168.5 | 128.7 | 115.5 | 110.6 NM_021629.2 |
| 358.4 | 287.4 | 329.7 | 254.8 NM_006578.3 |
| 158.1 | 126.1 | 130.7 | 106.7 NM_006578.3 |
| 85.5 | 84.4 | 86.1 | 88.9 NM_016194.3 |
| 382.1 | 294.3 | 325 | 277.5 NM_005476.3 |
| 825.4 | 518.4 | 526.4 | 427.1 NM_001017998.1 |
| 115.7 | 85.2 | 88.9 | 91.2 NM_004126.2 |
| 106 | 108.2 | 94 | 105.9 NM_018841.3 |
| 89.2 | 85.6 | 82 | 89.1 NM_016541.1 |
| 98.4 | 95.2 | 87 | 97.7 NM_053064.2 |
| 90.3 | 81.3 | 83.5 | 81.4 NM_012202.1 |
| 345.2 | 130 | 123.9 | 134.4 NM_004485.2 |
| 381.2 | 337.8 | 267 | 318.8 NM_005274.1 |
| 145.9 | 172 | 201.9 | 142.7 NM_052847.1 |
| 92 | 82 | 91.5 | 88.2 NM_033258.1 |
| 94.8 | 82.2 | 82.4 | 88.1 NM_021955.3 |
| 91.3 | 82.1 | 87.8 | 97.1 NM_031498.1 |
| 281.8 | 210.5 | 216.9 | 134.4 NM_005275.2 |
| 1622.8 | 1515.6 | 1166.3 | 875.7 NM_013285.1 |
| 784.5 | 617.9 | 486.3 | 538.9 NM_014366.4 |
| 2358.6 | 1674.6 | 1014.2 | 1082.5 NM_206826.1 |
| 121.2 | 125.4 | 119.8 | 107.1 NM_206825.1 |
| 1179 | 797.3 | 679.7 | 538.2 NM_019067.3 |
| 76.2 | 91.9 | 75.1 | 85.6 NM_012483.1 |
| 90.3 | 102.8 | 94.2 | 96.8 NM_012483.1 |
| 90.5 | 87.6 | 75.4 | 78.2 NM_006433.2 |
| 111.3 | 103.1 | 115.6 | 103.9 NM_018960.4 |
| 1500 | 1348.1 | 1006.8 | 1123.8 NM_014236.1 |
| 1478.7 | 1657.6 | 1541.8 | 852.8 NM_005471.3 |
| 83.4 | 79.3 | 73 | 81.8 NM_138335.1 |
| 93.9 | 93.4 | 75.1 | 81 NM_198066.2 |
| 102.6 | 97.9 | 94.8 | 89.4 NM_024312.3 |
| 669.6 | 896.2 | 931.4 | 522.4 NM_032520.3 |
| 171.5 | 143.5 | 144.7 | 141.7 NM_000825.2 |
| 81.8 | 78.7 | 75.2 | 86.6 NM_178332.1 |
| 93 | 91.2 | 86.8 | 88.1 NM_001501.1 |

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| 89.9 | 84.3 | 91.3 | 91.3 NM_001012763.1 |
| 82.6 | 85.5 | 87.1 | 85.9 NR_002328.3 |
| 1977.5 | 3246 | 3632 | 1968.7 NM_002076.2 |
| 108.3 | 103.9 | 93.4 | 120.1 NM_018652.4 |
| 147.8 | 168.1 | 185.7 | 143.9 NM_002077.2 |
| 189.3 | 257 | 322.8 | 242.2 NM_004486.4 |
| 88.7 | 86.5 | 99.7 | 89.9 NM_017600.1 |
| 103.5 | 95.4 | 87.4 | 93.1 NR_001555.1 |
| 819.1 | 1057.6 | 1039.1 | 949.4 NM_005895.2 |
| 107.8 | 122.7 | 122.9 | 119.1 NM_002078.3 |
| 96.8 | 98.8 | 98 | 93.6 NM_001038640.1 |
| 3063 | 2575.6 | 2083 | 2045.7 NM_001002296.1 |
| 101.4 | 85 | 80.2 | 80.8 NM_016099.2 |
| 96.5 | 94.8 | 105.4 | 88.2 NM_001002296.1 |
| 142.2 | 146 | 155.5 | 154.2 NM_181077.2 |
| 777.7 | 1397 | 1219.4 | 1580.8 NM_001023567.2 |
| 89.8 | 88.1 | 80.8 | 92.4 NM_001012423.1 |
| 90.5 | 91.2 | 93.6 | 99.7 XM_370843.4 |
| 90.8 | 85.6 | 80.8 | 90 NM_001012420.2 |
| 100.6 | 93.2 | 86.6 | 96.9 NM_004487.1 |
| 296.3 | 198.4 | 191.6 | 198.4 NM_016548.2 |
| 88 | 100.1 | 91.1 | 83.8 NM_177937.1 |
| 1129.9 | 1068.3 | 735.1 | 827.4 NM_022130.3 |
| 365.7 | 310.5 | 262.7 | 311.4 NM_018178.3 |
| 400.6 | 406.8 | 260.9 | 300.4 NM_014498.2 |
| 90.6 | 79.5 | 83.6 | 87.8 NM_198447.1 |
| 128 | 122.3 | 99.9 | 123.9 NM_016072.2 |
| 88.9 | 78.2 | 82.5 | 88.2 NM_032292.3 |
| 182.9 | 187.2 | 161 | 194.9 NM_020399.2 |
| 510.4 | 462.8 | 368.7 | 422.6 NM_031899.2 |
| 716.4 | 577.1 | 530.9 | 356.6 NM_015530.3 |
| 184.5 | 144.4 | 126.5 | 132.2 NM_004871.2 |
| 110.1 | 99 | 101.1 | 101.9 NM_001007024.1 |
| 155.1 | 129.9 | 124.5 | 127.3 NM_001012511.1 |
| 218.8 | 230.1 | 209.8 | 190.6 NM_054022.2 |
| 90.2 | 100.7 | 107.6 | 101.3 NM_004287.3 |
| 454.2 | 309.3 | 270.4 | 241.7 NM_002079.1 |
| 87.2 | 96.5 | 89.1 | 91.3 NM_152413.1 |
| 1263.5 | 816.4 | 629.3 | 581.7 NM_002080.2 |
| 142.3 | 138.2 | 145.4 | 133.1 NM_000173.3 |
| 85.3 | 89.9 | 93.6 | 80.3 NM_001007241.1 |
| 107.5 | 110.7 | 110.7 | 92.5 NM_016363.3 |
| 142.7 | 114.8 | 124.4 | 96.6 NM_000174.2 |
| 102 | 172.4 | 146.9 | 130.8 NM_005814.1 |
| 2155.3 | 1025.6 | 938.2 | 833 NM_003801.2 |
| 129.4 | 115.3 | 94.2 | 96.3 NM_020918.2 |
| 298.6 | 260.2 | 232.4 | 195.8 NM_018025.2 |
| 310.2 | 344.2 | 307.6 | 327.8 NM_018040.1 |
| 154.4 | 144 | 131.5 | 135.1 NM_022078.1 |
| 108.2 | 104.3 | 95.5 | 99.6 NM_182679.1 |

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| 1034.4 | 928.2 | 656 | 399.4 NM_182679.1 |
| 519 | 386.3 | 290.3 | 281.8 NM_182679.1 |
| 104.3 | 94 | 80.9 | 97.9 NM_170699.1 |
| 96 | 110.6 | 98.2 | 97.2 NM_001077191.1 |
| 185.7 | 122.8 | 120.2 | 157.8 NM_022913.1 |
| 133.2 | 137.2 | 134.6 | 135.4 NM_021639.3 |
| 107.3 | 108.3 | 92.2 | 108.1 NM_002081.1 |
| 108.9 | 90.1 | 100.9 | 92.7 NM_152742.1 |
| 353.8 | 320.1 | 282.5 | 278.4 NM_004484.2 |
| 211.4 | 289.3 | 229 | 208.4 NM_001448.2 |
| 116.1 | 115.5 | 108.2 | 106.2 NM_004466.3 |
| 143 | 137.2 | 127.3 | 115.9 NM_005708.2 |
| 88.1 | 80.9 | 80.3 | 87.7 NM_005276.2 |
| 639.1 | 635.6 | 616.4 | 351.3 NM_015141.2 |
| 89.7 | 83.8 | 79.3 | 87.8 NM_000408.2 |
| 94.9 | 94 | 81.4 | 83.6 NM_130769.2 |
| 117 | 117.3 | 110.7 | 94.2 NM_145171.2 |
| 227.7 | 235.5 | 193.4 | 148.9 NM_020806.4 |
| 106.3 | 98.4 | 99.1 | 92.2 NM_020806.4 |
| 1801.9 | 884.2 | 775.7 | 611 NM_000175.2 |
| 101.9 | 96.2 | 98.2 | 84.5 NM_005898.4 |
| 1173.9 | 589.9 | 496.3 | 473.3 NM_203364.2 |
| 604.1 | 595.4 | 473.9 | 394.7 NM_203364.2 |
| 133.9 | 137.4 | 150.8 | 127.6 NM_015698.3 |
| 88.1 | 78.4 | 80.6 | 83.7 NM_001503.2 |
| 99.5 | 86.3 | 90.6 | 91 NM_177483.1 |
| 96.6 | 99.1 | 97.4 | 96 NM_201591.1 |
| 91.2 | 88.7 | 82.9 | 88.4 NM_005277.3 |
| 119.1 | 104.6 | 107.8 | 91.6 NM_201592.1 |
| 123.3 | 143.9 | 162.9 | 115.5 NM_001001994.1 |
| 99.3 | 93.3 | 86.6 | 91.4 NM_001001994.1 |
| 105.5 | 113 | 117.1 | 106.7 NM_001001995.1 |
| 120.8 | 273.8 | 237.1 | 239.5 NM_002510.2 |
| 105.8 | 570.8 | 445.8 | 493.2 NM_001005340.1 |
| 349.8 | 467.9 | 718.5 | 423.7 NM_005279.2 |
| 101.3 | 91.1 | 93.9 | 86.5 NM_054021.1 |
| 106.7 | 89.8 | 88.6 | 94.8 NM_198179.1 |
| 110.9 | 97.5 | 99.2 | 102.4 NM_020960.2 |
| 227.2 | 226.6 | 211.9 | 170.3 NM_001080452.1 |
| 96.7 | 95.1 | 78.2 | 96.4 NM_177551.3 |
| 90.8 | 92.8 | 93.4 | 88.5 NM_006018.1 |
| 101.6 | 92.6 | 81.5 | 82.6 NM_025048.2 |
| 78.6 | 91.3 | 74.2 | 79.6 NM_153840.2 |
| 91.3 | 90 | 91.8 | 87.8 NM_025048.2 |
| 78.8 | 75.6 | 83.3 | 82.3 NM_153839.1 |
| 84.7 | 89.8 | 79 | 85.2 NM_153834.3 |
| 105.8 | 111.5 | 111.2 | 108.3 NM_153835.1 |
| 399.9 | 182.8 | 189.6 | 143.4 NM_153837.1 |
| 91 | 81.8 | 79.5 | 84.7 NM_153838.1 |
| 80.5 | 91.3 | 78.9 | 90.2 NM_015234.3 |

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| 104.1 | 111.4 | 109.3 | 94 NM_178471.1 |
| 78.4 | 78 | 77.6 | 82.7 NM_005288.1 |
| 81.9 | 85.8 | 75.1 | 79.9 NM_181745.2 |
| 80 | 96.9 | 75.5 | 93.8 NM_032422.1 |
| 396.9 | 412.3 | 384.1 | 462.6 NM_032777.6 |
| 94 | 97 | 92.5 | 87.9 NM_145290.2 |
| 77.7 | 87.8 | 75.2 | 82.3 NM_001032394.1 |
| 95.4 | 91.6 | 84.2 | 85.2 NM_032787.1 |
| 166.5 | 157.6 | 154.8 | 135.2 NM_013345.2 |
| 95 | 91.3 | 92.1 | 100.8 NM_198827.2 |
| 95.3 | 89.3 | 84 | 77.7 NM_022571.5 |
| 579.7 | 492.4 | 491.5 | 302.3 NM_020155.2 |
| 212.5 | 150.5 | 165.9 | 148.7 NM_003272.1 |
| 96.1 | 94.9 | 93.3 | 99.3 NM_001002911.1 |
| 94.5 | 90.3 | 92.7 | 96.6 NM_181791.1 |
| 103.8 | 90.8 | 91.4 | 91.4 NM_181790.1 |
| 96.2 | 97 | 89.6 | 95 NM_000273.1 |
| 108.3 | 107.2 | 110.8 | 110.3 NM_138445.2 |
| 86.1 | 84.2 | 87.6 | 87.9 NM_207364.1 |
| 90.3 | 84.8 | 86.2 | 89.4 NM_001038705.1 |
| 91.3 | 92.3 | 84.3 | 87 XM_293580.2 |
| 92.5 | 93.7 | 88.1 | 96.6 NM_005290.1 |
| 78.2 | 94 | 86.8 | 91.7 NM_199243.1 |
| 92.6 | 78.8 | 77 | 82.1 NM_194251.2 |
| 86.6 | 83.2 | 83.8 | 90.1 NM_206997.1 |
| 102 | 94.2 | 95.9 | 99.4 NM_207370.1 |
| 90.4 | 84.4 | 85.1 | 88.7 NM_207173.1 |
| 91.1 | 89.4 | 93.9 | 91 NM_207172.1 |
| 137.6 | 125.1 | 130.9 | 119.9 NM_207172.1 |
| 84.5 | 81.6 | 74.2 | 78.5 NM_001033045.2 |
| 93.2 | 90.9 | 90.7 | 98.7 NM_152529.5 |
| 97.2 | 108.4 | 86.9 | 89.2 NM_153002.1 |
| 81.2 | 83.7 | 74.9 | 86.1 NM_024980.3 |
| 91.1 | 86.3 | 82.6 | 83.5 NM_020752.1 |
| 1038.5 | 1388.5 | 1592.1 | 1673.9 NM_014373.1 |
| 96.8 | 99.3 | 88.3 | 100.9 NM_007369.1 |
| 81.7 | 87.1 | 83.4 | 98.9 NM_007369.1 |
| 269 | 429.5 | 567 | 270.9 NM_014449.1 |
| 93.5 | 81.4 | 83.4 | 97.4 NM_019858.1 |
| 88 | 88.7 | 81 | 83.3 NM_005291.1 |
| 92.9 | 89.7 | 88.4 | 86.4 NM_013308.2 |
| 1485.6 | 949.3 | 829.4 | 537.6 NM_024531.3 |
| 89.6 | 82.6 | 80.6 | 84.4 NM_017986.2 |
| 93 | 94.3 | 90.6 | 92.3 NM_018969.3 |
| 94.2 | 92.6 | 82 | 94.8 XM_938451.1 |
| 79.7 | 86.8 | 85.9 | 91.8 NM_032553.1 |
| 409.7 | 282.1 | 251.5 | 188.9 NM_016372.1 |
| 101.5 | 99.6 | 95.7 | 91.3 NM_007223.1 |
| 110.1 | 97.5 | 107.7 | 104.4 NM_001002292.1 |
| 285.9 | 306.5 | 253.5 | 230.9 NM_024911.4 |

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| 123.3 | 128.1 | 111 | 120 NM_001002292.1 |
| 102.2 | 102.6 | 101.5 | 93.3 NM_001004334.1 |
| 312.4 | 225.6 | 186.5 | 170.8 NM_005292.2 |
| 86.3 | 90.9 | 84.3 | 88.4 NM_006143.1 |
| 92.9 | 88.5 | 81 | 84.7 NM_005293.1 |
| 98.8 | 93.2 | 80.9 | 93.2 NM_005294.1 |
| 106.3 | 91.8 | 92.9 | 101.5 NM_005295.1 |
| 224.2 | 198.2 | 196.5 | 170.2 NM_005296.1 |
| 90.2 | 84.2 | 84.5 | 82.6 NM_005297.2 |
| 94.8 | 84.2 | 86.5 | 87.2 NM_005298.2 |
| 80 | 90.1 | 86.3 | 86.4 NM_153442.1 |
| 164.7 | 114.9 | 123.7 | 126.8 NM_018971.1 |
| 99.3 | 99 | 92.3 | 97.2 NM_005281.2 |
| 86 | 102.1 | 93.9 | 86.9 NM_001039966.1 |
| 89.5 | 103.2 | 90.2 | 96.3 NM_001031682.1 |
| 93.4 | 91.9 | 84.7 | 85.8 NM_001505.1 |
| 75.6 | 87.6 | 86.2 | 89.9 NM_005299.1 |
| 92.9 | 87.1 | 85.2 | 99 NM_001506.1 |
| 85.9 | 79.4 | 85.2 | 91.8 NM_005300.2 |
| 80.2 | 87.7 | 85.1 | 74.6 NM_005300.2 |
| 87.6 | 90.9 | 95.9 | 87.5 NM_001033513.1 |
| 97.9 | 113.1 | 92.8 | 97.4 NM_005301.2 |
| 98.4 | 105 | 108.8 | 109.2 NM_005302.2 |
| 88.4 | 87 | 76.5 | 86.9 NM_004767.2 |
| 99.3 | 93.3 | 93.3 | 98.6 NM_001508.1 |
| 88.5 | 69.2 | 86.7 | 90.7 NM_005282.1 |
| 95.8 | 81 | 87.3 | 81.7 NM_005305.1 |
| 85.5 | 78.7 | 79.7 | 81 NM_004778.1 |
| 86.6 | 94.1 | 93 | 84.6 NM_007227.3 |
| 98.5 | 95.7 | 77.8 | 88.6 NM_004224.1 |
| 87.6 | 82.4 | 81 | 87.3 NM_005684.2 |
| 97.9 | 110.6 | 100.8 | 88.7 NM_005683.2 |
| 99.1 | 90.8 | 100.4 | 95.4 NM_005682.4 |
| 116.7 | 104.8 | 99.5 | 103.9 NM_201524.1 |
| 88.3 | 87.9 | 93.4 | 91.7 NM_201525.1 |
| 89.3 | 96.9 | 85.1 | 94.5 NM_005284.2 |
| 89.6 | 80.9 | 81.6 | 80.7 NM_031936.3 |
| 88.6 | 84.6 | 81.7 | 80.8 NM_080865.2 |
| 197.7 | 174.1 | 179.2 | 157.3 NM_030784.1 |
| 96.7 | 111.4 | 97.2 | 86.4 NM_005756.1 |
| 87 | 88 | 85.9 | 80.3 NM_005756.1 |
| 142.3 | 119.2 | 122.5 | 104.6 NM_003608.2 |
| 95.8 | 94.3 | 87.3 | 87.9 NM_003485.3 |
| 101 | 95.6 | 83.7 | 99.4 NM_006794.1 |
| 80.9 | 81.8 | 80.2 | 77 NM_018485.1 |
| 96.9 | 96.5 | 100.2 | 89.6 NM_080819.2 |
| 97.6 | 87.8 | 94.4 | 94.5 NM_032554.3 |
| 92.3 | 89.6 | 79.5 | 85.5 NM_080817.2 |
| 91 | 88.8 | 93.9 | 83 NM_016540.2 |
| 231.3 | 113.3 | 109.1 | 95.5 NM_020370.1 |

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| 97.3 | 102.4 | 99.7 | 113.3 NM_018970.3 |
| 102.6 | 93.8 | 97.8 | 111.1 NM_023915.2 |
| 91.5 | 101.9 | 101.3 | 100 NM_022049.1 |
| 267.1 | 209.6 | 192.5 | 170.3 NM_016334.2 |
| 191.1 | 225.2 | 187.2 | 151.3 NM_020400.4 |
| 81.2 | 78.3 | 84.9 | 81.2 NM_170776.3 |
| 86 | 83.9 | 72.7 | 89.2 NM_170776.3 |
| 97 | 79 | 79.5 | 90.7 NR_003149.1 |
| 96.2 | 95.6 | 92.6 | 93.2 NM_014710.2 |
| 250.3 | 223 | 180.3 | 235.4 NM_138437.3 |
| 97.3 | 93.2 | 80.7 | 81.3 NM_138437.3 |
| 85 | 81.8 | 79.3 | 83.5 NM_003979.3 |
| 91.2 | 86 | 109.1 | 103.6 NM_016235.1 |
| 109.1 | 113.1 | 98.4 | 104 NM_018653.3 |
| 94.7 | 96.3 | 92.2 | 96.4 NM_022036.2 |
| 170.5 | 145 | 165.2 | 126.6 NM_018653.3 |
| 86.8 | 84.1 | 78 | 85.6 NM_018654.1 |
| 99.1 | 90.3 | 92.8 | 86.6 NM_148963.1 |
| 118.8 | 124.4 | 112.4 | 102.4 NM_212492.1 |
| 1298.5 | 1148.8 | 1073.6 | 556.3 NM_004127.4 |
| 182.3 | 188 | 165.6 | 161.4 NM_004127.4 |
| 237.4 | 215.2 | 210.6 | 183.9 NM_004489.4 |
| 88.3 | 98.9 | 87.2 | 88.2 XM_939186.1 |
| 806.1 | 337.5 | 261.4 | 246.6 NM_013296.3 |
| 596.4 | 448.6 | 424.1 | 319.8 NM_022107.1 |
| 7255.1 | 3171.3 | 3339.5 | 2247.5 NM_138501.4 |
| 104.1 | 100 | 100.6 | 97.1 NM_005309.1 |
| 941.7 | 497.7 | 576.7 | 362.4 NM_133443.1 |
| 9583.8 | 5865.8 | 5505.7 | 4991.6 NM_201397.1 |
| 128.7 | 96 | 103.5 | 90.1 NM_201397.1 |
| 98.8 | 99.2 | 94 | 88.2 NM_002083.2 |
| 89.3 | 96.3 | 87.8 | 84.5 NM_002084.2 |
| 2034.2 | 2037.2 | 1600 | 1538.5 NM_002085.2 |
| 8831.6 | 7729.6 | 7252.2 | 6991.5 NM_001039847.1 |
| 82.4 | 80.5 | 78 | 83.3 NM_001509.1 |
| 90.6 | 89.3 | 93.4 | 87.2 NM_001509.1 |
| 109.4 | 107.4 | 94.5 | 91.4 NM_182701.1 |
| 966.6 | 1268.4 | 922.6 | 866.3 NM_015696.2 |
| 259.4 | 226.1 | 216.8 | 110.2 NM_020895.2 |
| 90.5 | 79.6 | 77.9 | 88 NM_017577.2 |
| 96.7 | 86.5 | 77.9 | 79.9 NM_001012642.1 |
| 258.3 | 287.7 | 266.3 | 282.4 NM_023927.1 |
| 88.3 | 88.2 | 88.7 | 88.8 NM_006613.3 |
| 438 | 406.6 | 362.1 | 227.9 NM_006613.3 |
| 78.5 | 77.1 | 72.5 | 77.3 NM_004810.2 |
| 94.8 | 121.1 | 110.4 | 99.3 NM_181711.1 |
| 91.3 | 95.8 | 91.5 | 95.4 NM_001001550.1 |
| 213.5 | 163.8 | 140.5 | 115.6 NM_005311.3 |
| 99.2 | 82.6 | 91.2 | 94 NM_001001555.1 |
| 157.8 | 127.4 | 117.4 | 110 NM_005311.3 |

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| 98.8 | 92.5 | 84.8 | 91 NM_004490.2 |
| 85.5 | 87.4 | 81 | 90.5 NM_004490.2 |
| 653.6 | 688.5 | 604.3 | 574.2 NM_002086.3 |
| 928.7 | 952.6 | 919 | 787.2 NM_002086.3 |
| 91.8 | 87.6 | 84.9 | 87.5 NM_005310.2 |
| 78.8 | 75.8 | 84.7 | 82.6 NM_005310.2 |
| 92.3 | 91.7 | 84.5 | 88.4 NM_001030002.1 |
| 86.5 | 85.1 | 76.3 | 94.3 NM_148903.1 |
| 101.5 | 120.6 | 102.6 | 100.9 NM_033090.1 |
| 90.5 | 84 | 87.2 | 86.8 NM_148903.1 |
| 84.3 | 89.2 | 102 | 105.5 NM_014668.2 |
| 95.4 | 93.1 | 93.9 | 88 NM_013372.5 |
| 84.8 | 88.7 | 84.9 | 88.6 NM_022469.3 |
| 100.6 | 100.2 | 91.9 | 86.9 NM_014552.2 |
| 94.5 | 92.6 | 87.7 | 88.1 NM_198182.1 |
| 89.2 | 91.2 | 79.1 | 85.4 NM_198182.1 |
| 93.9 | 89.8 | 88.3 | 90.1 NM_024915.1 |
| 85.6 | 90.4 | 82.4 | 83.9 NM_021180.2 |
| 89.9 | 85.8 | 92.2 | 88.4 NM_198173.1 |
| 103 | 81.8 | 94.5 | 82.8 NM_021180.2 |
| 339.5 | 289.4 | 230.4 | 232.4 NM_012203.1 |
| 94.8 | 80.9 | 80.1 | 79.5 NM_000827.2 |
| 95 | 97.5 | 84.7 | 98 NM_000826.2 |
| 99 | 91.9 | 94.2 | 95.2 NM_181894.1 |
| 101.4 | 89.1 | 86.4 | 100.2 NM_181894.1 |
| 106.2 | 128.5 | 108.7 | 106.9 NM_007325.2 |
| 97.8 | 91.4 | 91.1 | 91.3 NM_001077244.1 |
| 79.6 | 75.6 | 69.6 | 82.1 NM_000829.1 |
| 86.7 | 83.2 | 77.5 | 87.8 NM_017551.1 |
| 80.4 | 79.2 | 93.1 | 84.8 NM_001510.1 |
| 87 | 84.2 | 79.1 | 86 NM_000830.3 |
| 91.3 | 81.9 | 91.2 | 95.2 NM_000830.3 |
| 86 | 81.5 | 89 | 86.2 NM_175611.2 |
| 89.2 | 86.8 | 79.6 | 85.1 NM_021956.2 |
| 92.4 | 95.3 | 91 | 95.8 NM_175768.1 |
| 94.6 | 97.2 | 91.3 | 90 NM_000831.2 |
| 88.9 | 83.4 | 74.6 | 76.1 NM_014619.2 |
| 87.7 | 86.6 | 90.2 | 97.7 NM_002088.3 |
| 89.1 | 86.9 | 85.4 | 87.5 NM_007327.1 |
| 77.6 | 85.1 | 75.1 | 79.8 NM_007327.1 |
| 199.3 | 166.6 | 175.6 | 154.3 NM_000832.5 |
| 87.4 | 92.9 | 84.7 | 83.7 NM_000833.2 |
| 83.3 | 78.5 | 69.6 | 72.2 NM_000834.2 |
| 93 | 81 | 88.3 | 86.4 NM_000835.3 |
| 95 | 86.9 | 93.4 | 93.1 NM_000836.1 |
| 82.2 | 85.5 | 91 | 83.9 NM_133445.1 |
| 170.2 | 208.9 | 222.6 | 139.1 NM_138690.1 |
| 332.7 | 446.8 | 374.9 | 470.4 NM_000837.1 |
| 775.8 | 695.8 | 607.1 | 518.4 NM_001009184.1 |
| 85.1 | 79.5 | 78.2 | 69.2 NM_001018103.1 |

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| 164.3 | 130.5 | 113.6 | 122.9 NM_001018102.1 |
| 138.2 | 133.2 | 137.5 | 109.4 NM_001018102.1 |
| 87.5 | 91.2 | 89 | 85.9 NM_021150.1 |
| 89.7 | 86 | 86 | 92.2 NM_001080423.1 |
| 299.3 | 312.1 | 234.9 | 221.7 NM_020137.3 |
| 134.4 | 169 | 137.3 | 130.1 NM_020137.3 |
| 1647.7 | 2263 | 2964.7 | 2900.3 NM_207672.1 |
| 113.8 | 101.8 | 101.9 | 103.6 NM_002929.2 |
| 83.1 | 86.6 | 92.1 | 97.2 XM_938093.1 |
| 102.2 | 99.6 | 108.3 | 102.7 NM_001004057.1 |
| 108.6 | 97.6 | 86.3 | 102.1 NM_001004056.1 |
| 99.9 | 97.1 | 89.8 | 90.1 NM_005308.2 |
| 174 | 167.3 | 158.1 | 147.2 NM_002082.2 |
| 169.4 | 153 | 140.5 | 132.9 NM_002082.2 |
| 78.5 | 79.4 | 78.5 | 83 NM_139209.2 |
| 106.1 | 112 | 87.8 | 95.5 NM_004491.2 |
| 92.5 | 86.9 | 87.1 | 84.4 NM_000838.2 |
| 128.3 | 97.3 | 99.6 | 99.9 NM_000839.2 |
| 96.1 | 84.6 | 91.7 | 93.3 NM_000840.2 |
| 96.2 | 91.8 | 88.6 | 101.5 NM_000841.1 |
| 76.8 | 81.2 | 82.3 | 77.8 NM_000842.1 |
| 76.6 | 74 | 73.1 | 81.1 NM_000843.2 |
| 91.8 | 100 | 89.9 | 99.1 NM_181874.1 |
| 101.3 | 85.6 | 89.6 | 91.3 NM_181875.1 |
| 88.5 | 84.1 | 82 | 91.7 NM_181875.1 |
| 98.1 | 102.3 | 95.3 | 91.7 NM_000845.1 |
| 1330.6 | 1759.1 | 1500.4 | 1229.2 NM_002087.2 |
| 745.6 | 1095.3 | 1145 | 570 NM_001012479.1 |
| 86.3 | 84 | 77 | 80.9 NM_001012513.1 |
| 83.9 | 91.4 | 86.8 | 93.2 NM_002091.3 |
| 836.7 | 589.5 | 442 | 489.9 NM_025196.2 |
| 838 | 626.2 | 542.8 | 630.9 NM_152407.2 |
| 93.6 | 97.9 | 85.6 | 92.4 NM_005314.2 |
| 85.1 | 75.7 | 77.5 | 92.3 NM_024869.2 |
| 1297 | 803.1 | 743.4 | 570.9 NM_002092.2 |
| 112.2 | 97.3 | 101.3 | 98.6 NM_024719.2 |
| 781.4 | 338.6 | 244 | 273 NM_031485.2 |
| 102.8 | 107.5 | 98.2 | 93.8 NM_173849.2 |
| 83.3 | 85.5 | 80.7 | 83.8 NM_005315.1 |
| 112 | 102.3 | 102.9 | 98.1 NM_178171.2 |
| 833.7 | 823.5 | 910.3 | 351.2 NM_024736.4 |
| 116.2 | 139 | 155.6 | 129.8 NM_018530.1 |
| 105.3 | 130.7 | 132 | 115.3 NM_018530.1 |
| 134.1 | 181.1 | 207.4 | 153.3 NM_018530.1 |
| 90.3 | 85.4 | 86.3 | 84.3 NM_001080554.1 |
| 104.5 | 94.7 | 88.1 | 99.3 NM_031289.1 |
| 105.4 | 101.5 | 95.1 | 105.3 NM_153823.1 |
| 177.4 | 140.3 | 143 | 110.4 NM_031965.2 |
| 85.4 | 77.1 | 90.5 | 79.1 NM_145657.1 |
| 81.5 | 79.5 | 75.4 | 79.7 NM_133267.1 |

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| 97.6 | 103 | 92.4 | 97.1 NM_019884.2 |
| 485.5 | 478.3 | 384.6 | 280.4 NM_002093.2 |
| 317.1 | 245 | 176.5 | 196.8 NM_198252.1 |
| 76.6 | 85.7 | 88.7 | 97.1 NM_000177.3 |
| 4770.1 | 3352.6 | 2643.5 | 1695 NM_002094.1 |
| 331 | 265.8 | 233.6 | 193.3 NM_018094.2 |
| 123.5 | 94 | 99.5 | 92.5 NM_000637.2 |
| 455.3 | 526.7 | 444.3 | 344.8 NM_000178.2 |
| 82.6 | 89.2 | 78.1 | 84.7 NM_145740.2 |
| 96 | 80.5 | 93.1 | 95.4 NM_000846.3 |
| 104.6 | 97.4 | 89 | 101.5 NM_000847.3 |
| 112.9 | 113.2 | 103.2 | 96.8 NM_001512.2 |
| 87.6 | 83 | 76.5 | 77.6 NM_153699.1 |
| 114.3 | 120.5 | 132.2 | 131.3 NM_024751.1 |
| 2425.6 | 2362.8 | 2254.1 | 1904.4 NM_015917.1 |
| 1590.2 | 650.4 | 504.3 | 530.4 NM_000561.2 |
| 7350.4 | 3268.5 | 3063.7 | 1817.1 NM_000561.2 |
| 95.5 | 85.1 | 79.6 | 96.4 NR_003112.1 |
| 7673.6 | 3121 | 3104.5 | 1685.3 NM_000848.2 |
| 306.9 | 336.2 | 321.2 | 242.5 NM_000849.3 |
| 227.3 | 160.4 | 138.8 | 128.9 NM_000850.3 |
| 217.1 | 171.8 | 168.6 | 132.3 NM_147148.1 |
| 94.2 | 100.5 | 97.3 | 98.5 NM_000851.2 |
| 2401.1 | 1306.8 | 1331.6 | 946.1 NM_004832.1 |
| 94.1 | 96.3 | 91.2 | 84.7 NM_183239.1 |
| 7020.8 | 5325.7 | 5632 | 2892.1 NM_000852.2 |
| 70.1 | 68 | 64.2 | 86.1 NM_000853.1 |
| 99.4 | 89.1 | 84.8 | 89 NM_001080843.1 |
| 97.5 | 104.2 | 92.2 | 88.8 NM_000854.2 |
| 95.4 | 83.4 | 73.7 | 80.4 NM_001513.2 |
| 237.8 | 237.1 | 257.4 | 169.8 NM_145871.1 |
| 98.7 | 92 | 94 | 87.4 NM_001513.2 |
| 97.3 | 104.9 | 93.9 | 95.2 NM_001006636.1 |
| 140.4 | 144.3 | 124.3 | 152 NM_001006636.1 |
| 106.5 | 106.1 | 94.4 | 90.7 NM_024659.2 |
| 92.6 | 82.2 | 88 | 96.1 NM_201595.1 |
| 92.1 | 96 | 102.2 | 97.8 NM_015859.2 |
| 110.2 | 106.8 | 94.7 | 85.3 NM_201595.1 |
| 1345.7 | 967.2 | 1022.6 | 885.6 NM_004492.1 |
| 757.4 | 615.7 | 491.9 | 460.7 NM_001514.3 |
| 534 | 432.3 | 288.3 | 402.9 NM_005513.1 |
| 2409.9 | 1206.3 | 1123.1 | 692.5 NM_002095.3 |
| 834.5 | 865.5 | 701.9 | 696.4 NM_002096.1 |
| 1553 | 1190 | 1092 | 1020.8 NM_004128.1 |
| 106.4 | 106.5 | 109.2 | 114.6 NM_005316.2 |
| 121.7 | 96.7 | 101.9 | 103 NM_001515.2 |
| 360.9 | 297.4 | 261.2 | 206.5 NM_001516.3 |
| 252.8 | 243.3 | 231.1 | 191.9 NM_001517.4 |
| 2108.6 | 2031.5 | 1599.4 | 1428.2 NM_207118.1 |
| 209.7 | 210 | 196.7 | 186 XM_939506.1 |

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| 92.9 | 94.9 | 93.1 | 91.5 NM_032999.1 |
| 149.4 | 143.6 | 136.4 | 138.3 NM_005685.2 |
| 96.4 | 110.9 | 93.3 | 88.4 NM_016328.1 |
| 100.5 | 103.4 | 102.1 | 106.2 NM_001003795.2 |
| 105.4 | 89.3 | 89.7 | 97.3 NR_002164.1 |
| 208.6 | 230.6 | 207.3 | 205 NM_001520.1 |
| 1185 | 1038.9 | 977 | 933.6 NM_001521.1 |
| 213.8 | 200.9 | 160.4 | 149.5 NM_001035521.1 |
| 762.4 | 617.9 | 458.2 | 448.1 NM_012086.1 |
| 88.7 | 87.8 | 93.6 | 90.9 NM_012204.1 |
| 472.6 | 308.3 | 257.2 | 245 NM_012087.1 |
| 109.6 | 105.6 | 91.9 | 109.6 NM_004286.3 |
| 102.1 | 122.5 | 105.3 | 97.6 NM_001042717.1 |
| 137.4 | 136.4 | 123.8 | 131.2 NM_019096.3 |
| 131.8 | 127.9 | 112.2 | 103.6 NM_133644.1 |
| 83.5 | 85.4 | 86.2 | 76.9 NM_133644.1 |
| 1151.3 | 804.1 | 789.7 | 552.7 NM_032620.1 |
| 1897.1 | 1268.2 | 959 | 851.1 NM_012341.2 |
| 105.2 | 100.1 | 93.8 | 86.8 NM_015666.2 |
| 1218.8 | 1701.8 | 1850.5 | 767.8 NM_012227.1 |
| 463.8 | 485.8 | 509.3 | 424 NM_014170.2 |
| 227.9 | 226.3 | 202.1 | 207.1 NM_014170.2 |
| 160.9 | 159.9 | 154.7 | 129.4 NM_138485.1 |
| 89 | 77.4 | 90.7 | 83.5 NM_001011708.1 |
| 449.3 | 250.6 | 225.4 | 184.3 NM_016426.4 |
| 111.1 | 98.5 | 101.4 | 90.4 NM_000409.2 |
| 132.4 | 152.9 | 160.1 | 144.7 NM_002098.3 |
| 124.7 | 111.3 | 113.7 | 99.4 NM_005459.2 |
| 93.6 | 99.5 | 92.2 | 91.9 NM_033553.2 |
| 97 | 86.2 | 86.1 | 95.5 NM_007102.1 |
| 97.2 | 100.2 | 97.5 | 91.6 NM_000855.1 |
| 82.6 | 90.9 | 82.3 | 84.5 NM_000856.2 |
| 116.7 | 99.7 | 96.4 | 86 NM_000857.1 |
| 80.1 | 79.7 | 84.3 | 77.4 NM_004963.1 |
| 94.3 | 87.2 | 88.8 | 86.6 NM_000180.1 |
| 94.3 | 86.6 | 86.8 | 92.1 NM_001522.1 |
| 291.6 | 212.8 | 194.7 | 166 NM_021927.1 |
| 1804.6 | 1903.5 | 1568.9 | 1331.1 NM_000858.4 |
| 87.2 | 79.6 | 87.8 | 88.8 NM_016315.2 |
| 94.1 | 89 | 83.6 | 90.4 NM_020707.2 |
| 2028.9 | 2102.2 | 1959.9 | 1390.2 NM_000181.1 |
| 237.2 | 322.4 | 355.9 | 264.2 NM_206910.1 |
| 1217 | 757.7 | 649 | 667.8 NM_004130.2 |
| 313.8 | 368.5 | 373.5 | 265.3 NM_003918.2 |
| 81.9 | 86.9 | 90 | 88.3 NM_003918.2 |
| 103.7 | 95.6 | 113.3 | 95 NM_003918.1 |
| 91.4 | 84.2 | 82.6 | 83.2 NM_152312.2 |
| 80.2 | 70.1 | 78.4 | 81 NM_002099.3 |
| 82.6 | 74.9 | 74.4 | 84.4 NM_002100.3 |
| 870.3 | 978.2 | 933.3 | 721.7 NM_002101.3 |

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| 795.7 | 898.9 | 970.3 | 804.9 XM_940361.1 |
| 91.4 | 88 | 80.1 | 92.7 NM_198682.1 |
| 81.3 | 91.5 | 79.8 | 78.2 NM_002102.2 |
| 88.4 | 86.2 | 78.7 | 89.9 NM_002102.2 |
| 177.3 | 175.2 | 157.4 | 144.3 NM_002103.3 |
| 105.1 | 100.3 | 97 | 97 NM_021957.2 |
| 91.2 | 89.4 | 87.5 | 89.8 NM_006144.2 |
| 87.8 | 80.3 | 84.8 | 90.5 NM_004131.3 |
| 86.7 | 95.8 | 103.3 | 90.5 NM_033423.2 |
| 82.4 | 82.1 | 81.6 | 86.6 NM_002104.2 |
| 96.9 | 97.5 | 80.3 | 90.6 NM_005317.2 |
| 90.4 | 83.2 | 83.9 | 84.1 NR_002196.1 |
| 2175 | 849.6 | 835.4 | 730.2 NM_005318.2 |
| 79.4 | 83.7 | 79.3 | 83.8 NM_153833.1 |
| 315.8 | 205.9 | 210.9 | 206.8 NM_006026.2 |
| 102.6 | 97.1 | 105.1 | 97.2 NM_181788.1 |
| 79.8 | 91.6 | 89.2 | 93.6 NM_001017990.1 |
| 86.5 | 91.2 | 86.8 | 90.9 NM_001017991.1 |
| 78.9 | 88.2 | 79.2 | 78.1 NM_080720.1 |
| 94.4 | 88.8 | 99.4 | 82.6 NM_018267.2 |
| 295.5 | 230.1 | 246.9 | 182.9 NM_177925.1 |
| 126 | 123.4 | 120.3 | 113.9 NM_138635.2 |
| 276.7 | 139.3 | 120.1 | 130.6 NM_002105.2 |
| 222.7 | 138.7 | 133.5 | 119.6 NM_004893.2 |
| 1608.8 | 1589.2 | 1528.5 | 1151.4 NM_138609.1 |
| 19100.5 | 19347.7 | 16907.4 | 11894.4 NM_004893.2 |
| 505.1 | 388.7 | 304.1 | 231 NM_018649.1 |
| 19656.2 | 11567.6 | 11475.6 | 9153.8 NM_002106.3 |
| 178.7 | 249.1 | 231.1 | 191.9 NM_017445.1 |
| 87.3 | 77.7 | 79.3 | 89.9 NM_001002916.2 |
| 98.3 | 82.4 | 91.4 | 91.1 NR_003238.1 |
| 36851.3 | 22985.4 | 21828.2 | 21032.9 NM_002107.3 |
| 899.3 | 1045.4 | 730.8 | 815.7 NM_005324.3 |
| 90.1 | 90 | 82.1 | 91.9 NM_004285.3 |
| 109.2 | 95.2 | 100.5 | 102.6 NM_012205.1 |
| 87.6 | 84.8 | 83 | 84 NM_004132.2 |
| 138.4 | 151.2 | 135.6 | 128.5 NM_014282.1 |
| 92.9 | 108.5 | 93.5 | 90.2 NM_020771.2 |
| 452.7 | 396.2 | 326.4 | 271.6 NM_004493.1 |
| 651.4 | 503.8 | 479.5 | 369.4 NM_004493.1 |
| 592.3 | 479 | 542.7 | 247.8 NM_000182.3 |
| 248.9 | 219.3 | 241.4 | 204.6 NM_000183.2 |
| 2312.9 | 1600 | 1530.9 | 944.4 NM_005327.1 |
| 214.8 | 192.2 | 155.9 | 150.9 NM_005326.3 |
| 821.5 | 802.1 | 802.2 | 425.4 NM_005326.3 |
| 196.2 | 230.9 | 227.3 | 220.4 NM_207112.1 |
| 100.4 | 94.3 | 97.3 | 97.3 NM_032304.2 |
| 299.6 | 301.5 | 290.2 | 234.1 NM_032304.2 |
| 94 | 87.7 | 83.9 | 86.7 NM_052947.2 |
| 115.8 | 160.8 | 144.7 | 151.5 NM_002108.2 |

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| 97.7 | 93.3 | 90 | 79.8 NM_021175.2 |
| 93.5 | 82.4 | 84.3 | 89.7 NM_004821.1 |
| 99.8 | 97.7 | 100.3 | 81 NM_021973.2 |
| 92.1 | 81.9 | 83.3 | 77 NM_017545.2 |
| 73.1 | 81.6 | 77.8 | 80.3 NM_001005783.1 |
| 99.3 | 94.1 | 79.1 | 91.1 NM_016527.2 |
| 84.1 | 92.1 | 86.3 | 79 NM_177977.2 |
| 104.1 | 95.8 | 89 | 84.6 NM_003949.2 |
| 93.5 | 84.2 | 84.3 | 92.5 NM_003949.2 |
| 77.7 | 80.3 | 80.7 | 80.5 NM_001884.2 |
| 95.1 | 100.7 | 92.5 | 90.8 NM_021817.2 |
| 113.6 | 88.3 | 92.2 | 77.9 NM_178232.2 |
| 91.3 | 102.7 | 94.5 | 94.2 NM_023002.1 |
| 1021.6 | 785.2 | 770.2 | 437.3 NM_002109.3 |
| 293.5 | 265.9 | 251.6 | 215.7 NM_080820.3 |
| 1268.3 | 1012.6 | 929.6 | 911.6 NM_012208.2 |
| 88.7 | 89.9 | 78.3 | 81.8 NM_001523.1 |
| 89.8 | 82.9 | 83.4 | 89.2 NM_005328.1 |
| 90.8 | 78.2 | 75.3 | 84.8 NM_005328.1 |
| 95.2 | 85.3 | 90.1 | 98.2 NM_005329.2 |
| 95.4 | 96 | 91.8 | 91.8 NM_005329.2 |
| 986.7 | 515.6 | 479.1 | 628.4 NM_003642.2 |
| 213.3 | 191.8 | 146.3 | 191.2 NM_003642.2 |
| 81.8 | 84.1 | 77.6 | 84 NM_012206.1 |
| 141.1 | 150.3 | 120.4 | 110.5 NM_032782.3 |
| 585.3 | 444.1 | 357.5 | 386.4 NM_001018837.1 |
| 288.4 | 268.5 | 224.6 | 191.2 NM_006118.3 |
| 275.2 | 182 | 157.4 | 166 NM_006118.3 |
| 88.8 | 86.6 | 82.7 | 84 NM_021182.1 |
| 95.1 | 102.6 | 81.4 | 79 NM_000517.3 |
| 103.3 | 86.7 | 92.1 | 85.6 NM_000518.4 |
| 88.1 | 89.7 | 89.8 | 90 NM_000519.3 |
| 93.3 | 85 | 87.1 | 84.7 NM_005330.3 |
| 225.1 | 174.1 | 165.6 | 134.4 NM_001945.1 |
| 95.1 | 89.6 | 84.3 | 81.5 NM_000559.2 |
| 90.4 | 92.6 | 93.8 | 96.4 NM_000184.2 |
| 93.9 | 89.3 | 86.9 | 89.8 NM_001003938.3 |
| 215.2 | 287.7 | 348 | 207.7 NM_012257.3 |
| 114.7 | 89.9 | 87 | 83 NM_005331.3 |
| 94.5 | 92.6 | 90 | 90.8 NM_006620.2 |
| 81.6 | 97.2 | 88.7 | 89.7 NM_016578.3 |
| 7532.6 | 4111.5 | 3228.1 | 2974.9 NM_006402.2 |
| 84.4 | 87 | 80.6 | 83.8 NM_005332.2 |
| 89.6 | 93.7 | 87.7 | 91.7 NM_018487.2 |
| 586.1 | 502.8 | 439.1 | 325.9 NM_015261.2 |
| 811.5 | 491.4 | 377.5 | 433.8 NM_022346.3 |
| 184.9 | 154.6 | 144.7 | 150.8 NM_152299.1 |
| 103.5 | 92.9 | 82.6 | 88.9 NM_014551.3 |
| 158.7 | 133 | 117.9 | 135.4 NM_014551.3 |
| 163 | 154.4 | 153.4 | 148.1 NM_053005.2 |

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| 96.9 | 99.1 | 94.1 | 95.4 NM_005333.2 |
| 2050.4 | 1699.8 | 1839.1 | 871.3 NM_005334.1 |
| 135.9 | 110.6 | 111.9 | 95.5 NM_001002018.1 |
| 854.8 | 550.2 | 472.9 | 419.4 NM_001002017.1 |
| 130.2 | 130.2 | 127.1 | 127.1 NM_013320.1 |
| 114.1 | 102.9 | 104.4 | 106.4 NM_181717.1 |
| 2264.8 | 3582.6 | 4079.6 | 3320.3 NR_001318.1 |
| 91.8 | 93.7 | 75.4 | 78.1 NM_001001394.2 |
| 88.8 | 81.8 | 77.8 | 83.8 NR_002139.1 |
| 85.2 | 89 | 89.7 | 86.1 NM_005844.2 |
| 379.3 | 548.3 | 581.2 | 476.7 NM_002110.2 |
| 5757.6 | 5000.3 | 4449.1 | 2709.2 NM_005335.3 |
| 87.2 | 89.9 | 90.6 | 82.1 NM_021072.1 |
| 77.5 | 83.8 | 77.9 | 89 NM_001194.2 |
| 132.2 | 125.7 | 146.1 | 119.4 NM_020897.1 |
| 98.5 | 107.2 | 99.9 | 114.4 NM_005477.1 |
| 117.3 | 105.7 | 102.9 | 107.5 NM_080669.2 |
| 165.7 | 108.1 | 114.6 | 113.3 NM_006674.2 |
| 117 | 128.1 | 104.4 | 127.3 NM_001524.1 |
| 90.6 | 91.1 | 87.7 | 105.2 NM_001525.1 |
| 109.3 | 98.4 | 97.3 | 94 NM_001526.2 |
| 2535.6 | 919.4 | 962.6 | 735.4 NM_014266.3 |
| 206.6 | 133.9 | 130.6 | 115.6 NM_014266.3 |
| 86.1 | 81.2 | 91.5 | 100.6 NM_001023564.1 |
| 4343.2 | 3579.2 | 3399.1 | 2034.1 NM_004964.2 |
| 123.9 | 133.4 | 124.1 | 124.3 NM_032019.4 |
| 90.3 | 93.1 | 94.5 | 88.9 NM_024827.1 |
| 1994.8 | 1586.3 | 1041.4 | 1829.5 NM_001527.1 |
| 780.2 | 697.3 | 627.9 | 608.7 NM_003883.2 |
| 176 | 186.4 | 215 | 177.3 NM_006037.2 |
| 109.3 | 85.9 | 85.8 | 91.5 NM_005474.4 |
| 103.7 | 110.2 | 96.2 | 104.2 NM_001015053.1 |
| 212.3 | 287.9 | 256.1 | 235 NM_006044.2 |
| 91.7 | 82.5 | 94.3 | 86 NM_015401.1 |
| 86.4 | 96.1 | 77.9 | 85.2 NM_016596.2 |
| 141.5 | 159.2 | 168.5 | 134.2 NM_018486.1 |
| 105.6 | 109.2 | 88.8 | 89.8 NM_058176.2 |
| 91.8 | 98.2 | 92.4 | 103 NM_014707.1 |
| 98.2 | 104.9 | 91.1 | 104.6 NM_178423.1 |
| 96.4 | 90.2 | 84.5 | 81.4 NM_058177.1 |
| 78.6 | 109.1 | 89.5 | 87.5 NM_058177.1 |
| 87.5 | 82 | 75 | 82.6 NM_002112.1 |
| 605.1 | 472.7 | 322.4 | 509.9 NM_016648.1 |
| 4112.1 | 4481.3 | 4183.4 | 3082.4 NM_016063.1 |
| 613.6 | 433.4 | 345 | 289.9 NM_198527.1 |
| 1857.9 | 1003 | 736 | 600.4 NM_004494.1 |
| 300.6 | 275.2 | 227.2 | 186 NM_001001520.1 |
| 342.7 | 341.5 | 342.4 | 336 NM_001001520.1 |
| 93.6 | 93.1 | 95.2 | 94 NM_138574.2 |
| 83.7 | 89 | 84.8 | 84.8 NM_016073.2 |

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| 317.3 | 305.4 | 261.2 | 180.9 | NM_012080.3 |
| 169.9 | 209.2 | 179.1 | 162.8 | NM_032124.3 |
| 157.4 | 122.2 | 119.7 | 110.4 | NM_031219.2 |
| 106 | 146.6 | 145.4 | 123.8 | NM_005336.2 |
| 98.3 | 95.2 | 97 | 93.2 | NM_005336.2 |
| 111.3 | 110 | 119.1 | 104.1 | NM_203346.1 |
| 319.1 | 282.4 | 249 | 217.4 | NM_006831.1 |
| 1204.6 | 907.1 | 841.2 | 546.1 | NM_018072.4 |
| 301.6 | 402.9 | 358.6 | 364.1 | NM_019024.1 |
| 456 | 445.2 | 382.8 | 317.1 | NM_015987.3 |
| 1062.2 | 1166.8 | 1314.3 | 1096.2 | NM_014320.2 |
| 166.7 | 190.9 | 188.8 | 192 | NM_016217.2 |
| 1380.4 | 2385.4 | 1727.5 | 1807 | NM_015382.1 |
| 91.7 | 95.1 | 95.3 | 100.3 | NM_182765.1 |
| 92.6 | 96 | 77.1 | 79.9 | NM_173497.1 |
| 92.6 | 106.1 | 106 | 103.8 | NM_173497.1 |
| 213.2 | 191.9 | 207.6 | 140.2 | NM_024602.4 |
| 79.1 | 80.8 | 76.9 | 84.8 | NM_015052.2 |
| 103.4 | 103.5 | 95.7 | 110.3 | NM_020760.1 |
| 330.7 | 272.4 | 214.9 | 290.3 | NM_133636.1 |
| 122.1 | 110.6 | 107.7 | 95.7 | NM_033647.2 |
| 206.8 | 154.2 | 137.2 | 152.4 | NM_018063.3 |
| 99.1 | 89.2 | 82.9 | 81.7 | NM_001029887.1 |
| 226.8 | 480.6 | 415.7 | 378 | NM_014877.2 |
| 346.6 | 495.2 | 383.6 | 230.5 | NM_005337.2 |
| 94.9 | 94.4 | 92.1 | 88.9 | NM_018437.3 |
| 92.2 | 90.6 | 79.9 | 90.8 | NM_018437.3 |
| 77.6 | 77.5 | 74.1 | 77.5 | NM_197978.1 |
| 154.3 | 189.5 | 178.8 | 154 | NM_016173.3 |
| 84.8 | 90.1 | 84.3 | 86.1 | NM_152722.4 |
| 79.6 | 73.1 | 83.1 | 85.8 | NM_138737.1 |
| 86.1 | 80.7 | 82.6 | 80.4 | NM_014799.2 |
| 323.2 | 540 | 573.6 | 507 | NM_003922.2 |
| 304.8 | 539.1 | 553.9 | 385.8 | NM_004667.3 |
| 103.1 | 123.6 | 108.1 | 120.1 | XR_000517.1 |
| 78.5 | 76.9 | 80.8 | 89.6 | NR_002827.1 |
| 169.6 | 198.1 | 144.7 | 157.5 | NM_014606.1 |
| 121.3 | 115.6 | 119.1 | 124.6 | NM_022079.1 |
| 99.3 | 96.9 | 89.8 | 97.8 | NM_015601.2 |
| 528.3 | 405.2 | 321.1 | 399.8 | NM_015601.2 |
| 346.8 | 263.9 | 245.8 | 217.2 | NM_016323.1 |
| 168.9 | 150.7 | 140.2 | 143.5 | NM_001013005.1 |
| 821.8 | 392 | 375.2 | 378.8 | NM_001010990.1 |
| 118 | 99.3 | 100.6 | 116.6 | NM_022373.3 |
| 102.9 | 97.7 | 91.2 | 94.6 | NM_207582.1 |
| 83.3 | 78.5 | 81.3 | 70.6 | NM_005524.2 |
| 84.7 | 84 | 74.2 | 74 | NM_019089.3 |
| 126 | 111 | 108.8 | 101.4 | NM_021170.2 |
| 792 | 909.8 | 993.2 | 494.9 | NM_018645.3 |
| 73.6 | 82.8 | 74.5 | 75.1 | NM_032580.1 |

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| 163 | 140.2 | 148.5 | 149.8 NM_003865.1 |
| 93.3 | 113.7 | 113.6 | 87.7 NM_000520.2 |
| 9014 | 14236.6 | 11431 | 9598.8 NM_000521.2 |
| 97 | 99.7 | 103.5 | 94.7 NM_173620.1 |
| 100.1 | 102 | 90.2 | 95.2 NM_006460.2 |
| 109.1 | 123.2 | 119.6 | 98.8 NM_144608.1 |
| 82.9 | 86.8 | 87.7 | 91.4 NM_012258.2 |
| 93.8 | 85.7 | 93.1 | 100 NM_001040708.1 |
| 92.9 | 91.2 | 91.9 | 85.4 NM_012259.1 |
| 498.3 | 373 | 360.1 | 263.6 NM_014571.2 |
| 84.9 | 84 | 87.9 | 81.4 NM_139005.2 |
| 101.1 | 88.2 | 78.9 | 98.7 NM_139007.1 |
| 89.1 | 87.4 | 77.5 | 85.1 NM_000410.3 |
| 85.2 | 81.7 | 82.1 | 82.6 NM_145277.3 |
| 86 | 97.1 | 86 | 88.7 NM_213653.2 |
| 77.8 | 74.6 | 82.9 | 87.2 NM_213652.2 |
| 121.4 | 129.3 | 117.8 | 120.1 NM_000187.2 |
| 75 | 75.8 | 74.4 | 72.5 NM_001010934.1 |
| 116.7 | 114.4 | 99.1 | 112 NM_001010932.1 |
| 84.6 | 83.4 | 76.1 | 81.8 NM_001010931.1 |
| 86.6 | 83.9 | 85 | 92.8 NM_001528.2 |
| 2903 | 2698.7 | 2791.6 | 1304.3 NM_004712.3 |
| 88 | 85.3 | 82.1 | 79.1 NM_018194.1 |
| 166.5 | 142.2 | 149.7 | 121 NM_002729.2 |
| 84.7 | 87.7 | 92.2 | 95.9 NM_022475.1 |
| 95.4 | 95 | 96.8 | 97.3 NM_005712.1 |
| 83 | 86.1 | 78.2 | 92.1 NM_007072.2 |
| 138.1 | 100.6 | 113.1 | 101.1 NM_001031693.1 |
| 98.2 | 89.4 | 92.8 | 85.1 NM_001036645.1 |
| 88.1 | 81.4 | 81.5 | 88.3 NM_001036645.1 |
| 118.2 | 87.6 | 98.8 | 93.9 NM_033055.2 |
| 1202.6 | 859 | 542.7 | 714.8 NM_032558.1 |
| 664.6 | 846.9 | 705.4 | 711.8 NM_152740.2 |
| 505.5 | 437 | 387.3 | 344.7 NM_014362.2 |
| 109.7 | 101.1 | 107.2 | 99.5 NM_006497.2 |
| 648.2 | 466.3 | 500.6 | 273 NM_015094.1 |
| 156.8 | 125.7 | 109.5 | 154.7 NM_181054.1 |
| 159.9 | 137.9 | 131.5 | 148.3 NM_001530.2 |
| 164.6 | 149 | 138.2 | 133 NM_017902.1 |
| 96.9 | 86.7 | 91.6 | 83 NM_152796.1 |
| 80.3 | 82.5 | 79.2 | 96.8 NM_152795.2 |
| 92.8 | 85.7 | 85.8 | 91.5 NM_152794.2 |
| 94.9 | 90.9 | 98.4 | 88.1 NM_022462.2 |
| 80.8 | 93.4 | 78.8 | 88.1 NM_152794.1 |
| 136.6 | 110.7 | 124.7 | 107.3 NM_013332.1 |
| 1065.9 | 618.4 | 464.9 | 640.1 NM_014056.1 |
| 85.5 | 92.8 | 80.1 | 92 NM_016438.2 |
| 1819.9 | 1511.2 | 1418.1 | 876.3 NM_138820.2 |
| 96 | 92.1 | 88.8 | 85.1 XR_000594.1 |
| 88.9 | 80.6 | 77.3 | 90.3 NR_002780.1 |

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| 92.9 | 95.1 | 92.5 | 93 NM_194072.1 |
| 11127.8 | 11498.2 | 9687.3 | 9595 NM_005340.3 |
| 1023.3 | 848.8 | 847.4 | 582.2 NM_032593.2 |
| 85 | 91.8 | 77.3 | 87.2 NM_138571.3 |
| 206.6 | 170.7 | 166.1 | 138.7 NM_005338.4 |
| 100.2 | 101.5 | 90.3 | 103.6 NM_003959.1 |
| 80.9 | 86.7 | 85.3 | 90.9 NM_003959.1 |
| 99.8 | 101.7 | 101.3 | 89 NM_003959.1 |
| 84.7 | 72.6 | 84.9 | 84.5 NM_005339.3 |
| 85.6 | 80 | 76.2 | 83.4 NM_198269.1 |
| 85.6 | 86 | 91.8 | 85.2 NM_181358.1 |
| 103.7 | 98.9 | 88.3 | 92.8 NM_152696.3 |
| 92.1 | 86.1 | 84.1 | 87.5 NM_198268.1 |
| 119.8 | 218.8 | 214.9 | 139.5 NM_022740.2 |
| 110.5 | 114 | 91.6 | 104.3 NM_005734.2 |
| 137.7 | 109.2 | 102 | 100.3 NM_001048200.1 |
| 86.6 | 83.5 | 84.6 | 95.8 NM_144685.3 |
| 96.6 | 96 | 102.1 | 90 NM_003325.3 |
| 548.3 | 486.9 | 449.3 | 219.8 NM_003609.2 |
| 93.4 | 96.2 | 92.8 | 93.3 NM_015216.2 |
| 324.8 | 419.5 | 311.6 | 266.1 NM_001024463.2 |
| 86.4 | 82.8 | 83.8 | 90.7 NM_014659.3 |
| 94.9 | 97.5 | 107 | 90.3 NM_001024463.2 |
| 120.4 | 103.1 | 103.9 | 107.4 NM_005325.2 |
| 107.2 | 92.5 | 97.9 | 96.8 NM_005322.2 |
| 128.9 | 105.3 | 133.8 | 108.7 NM_005319.3 |
| 98 | 100.3 | 100.7 | 85.7 NM_005320.2 |
| 85.8 | 81.4 | 76.9 | 86.1 NM_005321.2 |
| 101.8 | 88.5 | 91.6 | 91.2 NM_005323.3 |
| 106.5 | 102.6 | 96.3 | 87 NM_170745.3 |
| 98.1 | 70.5 | 68.8 | 72.7 NM_003513.2 |
| 89.8 | 101.8 | 94 | 102.3 NM_003512.3 |
| 86.9 | 81.6 | 81.1 | 92.2 NM_021065.2 |
| 89.6 | 88.9 | 79 | 84.2 NM_021052.2 |
| 86.7 | 76.8 | 81 | 81.2 NM_021064.3 |
| 103.4 | 92.4 | 88.2 | 97.6 NM_080596.1 |
| 93.8 | 94.9 | 89.4 | 98.5 NM_003509.2 |
| 96.2 | 99.5 | 86.3 | 88.8 NM_021066.2 |
| 80.1 | 74.9 | 82.9 | 74.5 NM_003510.2 |
| 93.7 | 111.9 | 102.7 | 106.8 NM_003514.2 |
| 88.9 | 93.2 | 91.7 | 93.9 NM_170610.2 |
| 82.9 | 82.6 | 84.1 | 80.5 NM_021062.2 |
| 97.2 | 104 | 87 | 82.4 NM_003526.2 |
| 127.4 | 121.3 | 154.8 | 134.7 NM_138720.1 |
| 100.9 | 118.5 | 99.3 | 117.7 NM_138720.1 |
| 85.9 | 92 | 72.9 | 91.4 NM_021063.2 |
| 94.2 | 94.5 | 93 | 97.8 NM_003523.2 |
| 109.8 | 134.7 | 123.5 | 120.1 NM_003522.3 |
| 104.3 | 102.7 | 101.7 | 99.9 NM_003518.3 |
| 227.4 | 179.5 | 221.2 | 161.3 NM_003524.2 |

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| 84.2 | 73.2 | 75.7 | 84 NM_003525.2 |
| 416.1 | 357.2 | 293.1 | 267.2 NM_021058.3 |
| 936.8 | 1477 | 1500.4 | 924.3 NM_080593.1 |
| 81.3 | 83.8 | 83.8 | 81.7 NM_003519.3 |
| 101.1 | 93.3 | 79.1 | 87.6 NM_003521.2 |
| 85.1 | 87.1 | 86.8 | 92.5 NM_003527.4 |
| 96.2 | 96.7 | 100.1 | 99.9 NM_003529.2 |
| 84.5 | 92.1 | 87.7 | 85.9 NM_003537.3 |
| 119.7 | 116 | 101.4 | 109.7 NM_003531.2 |
| 101.5 | 97.6 | 101.8 | 95 NM_003530.3 |
| 85.9 | 87.1 | 83.1 | 84 NM_021018.2 |
| 98.8 | 100 | 97.7 | 92.9 NM_003534.2 |
| 98 | 107.1 | 96.3 | 96.1 NM_003536.2 |
| 110.2 | 101 | 104.9 | 98.8 NM_003533.2 |
| 97.7 | 108.4 | 116.8 | 108.7 NM_003535.2 |
| 87.7 | 89.4 | 87.5 | 87.2 NM_003538.3 |
| 103.6 | 111.1 | 104.9 | 111.4 NM_003544.2 |
| 15723 | 10756.4 | 10386.8 | 5947.3 NM_003542.3 |
| 90.3 | 81.8 | 86.2 | 86.6 NM_003539.3 |
| 87.3 | 96.8 | 98.5 | 93.1 NM_003545.3 |
| 97.5 | 92.9 | 96.6 | 83.8 NM_003540.3 |
| 87.2 | 82.5 | 75.2 | 83.9 NM_003547.2 |
| 95.8 | 88.9 | 86.4 | 92.2 NM_003543.3 |
| 97.9 | 89.7 | 78.3 | 83.5 NM_003495.2 |
| 94.2 | 94.4 | 81.8 | 100.8 NM_021968.3 |
| 84.5 | 78.2 | 77 | 87.2 NM_003546.2 |
| 263.7 | 259.7 | 297.9 | 225 NM_003516.2 |
| 98.4 | 97.8 | 100.8 | 102.2 NM_175065.2 |
| 836.4 | 603.1 | 612.1 | 390.4 NM_003517.2 |
| 98.6 | 92.3 | 85.4 | 94.6 NM_003528.2 |
| 130.8 | 132.9 | 125.7 | 111.6 NM_001024599.1 |
| 92.6 | 104.5 | 101.4 | 95.8 NM_021059.2 |
| 122.2 | 111.2 | 126.5 | 104.6 NM_003548.2 |
| 167.9 | 114.3 | 121.7 | 115.6 NM_033445.2 |
| 108.2 | 90.6 | 85.7 | 90.4 NM_175055.2 |
| 86.1 | 92 | 83.5 | 90.3 NM_003493.2 |
| 88.3 | 81.5 | 76.7 | 78.7 NM_175054.2 |
| 112.1 | 110.1 | 107 | 105.1 NM_002114.1 |
| 142 | 143.4 | 123.4 | 114.1 NM_006734.2 |
| 105 | 109.6 | 105.4 | 91.2 NM_024503.1 |
| 1625.6 | 1775.6 | 1519.6 | 943.7 NM_033500.1 |
| 97.6 | 102.7 | 98.4 | 93.4 NM_000188.1 |
| 85.5 | 79.4 | 73 | 76.4 NM_033496.1 |
| 88.6 | 90.4 | 84.3 | 88.3 NM_033500.1 |
| 141.6 | 150.9 | 151.4 | 133.8 NM_000189.4 |
| 189 | 193.7 | 183.9 | 166.5 NM_002115.1 |
| 85.3 | 84.1 | 85.6 | 73.1 NM_025130.2 |
| 111.2 | 112.3 | 107.8 | 94.9 NM_181786.2 |
| 90.1 | 92.8 | 96.1 | 87.1 NM_181846.1 |
| 557 | 611.1 | 652.8 | 392 NM_005341.1 |

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| 9652.2 | 6370.2 | 5460 | 5398.5 | NM_002116.5 |
| 77.2 | 78.5 | 77.4 | 82.7 | NM_002117.4 |
| 394.8 | 469.1 | 514.8 | 282.7 | NM_006120.2 |
| 109.6 | 140.8 | 159 | 131.8 | NM_002118.3 |
| 84.4 | 73.9 | 85.6 | 88.5 | NM_002119.3 |
| 100.1 | 99.7 | 95.9 | 97.9 | NM_002120.2 |
| 140.6 | 122.9 | 129.5 | 121 | NM_033554.2 |
| 80 | 83.7 | 81.6 | 96.1 | NM_002121.4 |
| 92.5 | 80.1 | 87.4 | 82.5 | NR_001435.1 |
| 87.8 | 87.1 | 85.7 | 86 | XM_936120.1 |
| 98.7 | 97.2 | 88.6 | 80.9 | NM_020056.2 |
| 86.5 | 87 | 88.2 | 86.4 | NM_002123.2 |
| 93.4 | 94.6 | 96.7 | 96.3 | NM_182549.1 |
| 379.8 | 284.5 | 237.3 | 252.6 | NM_019111.3 |
| 615.7 | 707.8 | 495.9 | 452.8 | NM_002124.1 |
| 212.6 | 207.7 | 218.4 | 187 | NM_022555.3 |
| 94.5 | 94.1 | 87 | 83.1 | NM_021983.4 |
| 664 | 390.5 | 322.1 | 284.3 | NM_002125.3 |
| 252.6 | 203.4 | 247.3 | 198.8 | NR_001298.1 |
| 155 | 134 | 131.7 | 125.1 | NM_005516.4 |
| 340.9 | 298.7 | 268.3 | 242.8 | NM_018950.1 |
| 113.8 | 104.5 | 107.7 | 108 | NM_002127.3 |
| 1396.8 | 1142.4 | 1008.8 | 816.5 | NR_001434.1 |
| 80.3 | 85.2 | 86.1 | 86.1 | NM_000411.4 |
| 99.4 | 96.4 | 91 | 86.3 | NM_002126.3 |
| 109.7 | 97 | 90.5 | 99.4 | NM_031304.2 |
| 342.3 | 270.2 | 240.4 | 219.7 | NM_021958.2 |
| 97.6 | 110 | 87.1 | 101 | NM_005515.2 |
| 88.2 | 84 | 86 | 88.5 | NM_178580.1 |
| 644.2 | 555.2 | 428.7 | 402.7 | NM_030789.2 |
| 116.1 | 127.8 | 126.3 | 120.3 | NM_178582.1 |
| 146.2 | 144 | 145.8 | 133.7 | NM_024567.2 |
| 103.1 | 101.8 | 93.5 | 95.7 | NM_001024382.1 |
| 666.6 | 447.3 | 437.7 | 274.4 | NM_000190.3 |
| 1050.9 | 681.9 | 682.9 | 338.5 | NM_001024382.1 |
| 98.3 | 88.6 | 93.6 | 88.7 | NM_031935.1 |
| 363.7 | 630.5 | 381 | 335.9 | NM_032717.3 |
| 280 | 194.8 | 212.3 | 254.4 | NM_001008735.1 |
| 198 | 217.9 | 195.8 | 152.2 | NM_018200.2 |
| 1185.4 | 1516.1 | 1510.3 | 798 | NM_006339.1 |
| 131.4 | 122.9 | 128.1 | 118.2 | NM_014250.1 |
| 101.8 | 98.6 | 105.1 | 98.6 | NM_005487.3 |
| 93.2 | 86.3 | 100.8 | 93.6 | NR_002165.1 |
| 87.2 | 94.6 | 88.8 | 89.6 | NM_002131.2 |
| 86.9 | 90.5 | 91.8 | 92.2 | NM_145904.1 |
| 91.7 | 88.2 | 84.1 | 94.6 | NM_145905.1 |
| 3140.1 | 2604.4 | 2071.8 | 2686.7 | NM_145899.1 |
| 91.6 | 98.1 | 85.4 | 85.7 | NM_003484.1 |
| 99.1 | 103.9 | 102.4 | 102.5 | NM_003483.4 |
| 199.4 | 158.6 | 144.6 | 206 | NM_002128.4 |

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| 2575.7 | 1645 | 1446.7 | 1581 NM_002129.2 |
| 520.2 | 401 | 322.8 | 309.7 NM_005342.2 |
| 100.9 | 91.2 | 97.5 | 101.3 NM_145205.3 |
| 87.2 | 83.6 | 85.7 | 91.7 NM_001008728.1 |
| 184.8 | 182 | 184.1 | 150.9 NM_000191.2 |
| 92.1 | 96 | 82.8 | 74.5 NM_019036.1 |
| 94.2 | 84.2 | 84.9 | 84.3 NM_019036.1 |
| 95.5 | 93.8 | 90.4 | 96.5 NM_019036.1 |
| 1046.3 | 1511.7 | 1393.1 | 1171.3 NM_000859.1 |
| 927.7 | 1333.3 | 1441.1 | 1071.4 NM_002130.4 |
| 89.1 | 94.2 | 92.8 | 79.4 NM_005518.2 |
| 20064.2 | 19436.1 | 18781.1 | 14921 NM_004965.6 |
| 2296.8 | 1195.9 | 987.7 | 1266.7 NM_005517.2 |
| 93.5 | 90.3 | 86.8 | 89.8 NM_004242.2 |
| 497.2 | 464.7 | 524.1 | 346.8 NM_006353.2 |
| 223.4 | 189.5 | 204 | 128.3 NM_012292.2 |
| 684.7 | 400.8 | 343.3 | 424.5 NM_012484.1 |
| 1390 | 884.8 | 687.6 | 587 NM_012485.1 |
| 3028.7 | 1074.7 | 660.8 | 651.9 NM_002133.1 |
| 88.8 | 94.1 | 87 | 92.1 NM_002134.2 |
| 84.5 | 88.2 | 82.7 | 85.3 NM_015980.3 |
| 93.2 | 89.4 | 84.2 | 102.5 NM_018942.1 |
| 186.2 | 116.1 | 105.7 | 110.2 NM_005519.1 |
| 241.3 | 139.2 | 124.3 | 109.3 NM_016185.2 |
| 90.1 | 86.6 | 90.8 | 88.3 NM_001030004.1 |
| 93.3 | 95.6 | 103.3 | 89.4 NM_178850.1 |
| 222.1 | 159.3 | 139.7 | 155.8 NM_004133.3 |
| 816 | 545.1 | 455.7 | 542.4 NM_001024074.1 |
| 398.7 | 246.5 | 236.9 | 250.8 NM_001024074.1 |
| 216.7 | 203.4 | 179.9 | 201.2 NM_006895.2 |
| 90.3 | 93.6 | 95.3 | 107.3 NM_001024075.1 |
| 81.6 | 90.2 | 85.4 | 87.2 NM_014469.3 |
| 1032 | 746.4 | 550.5 | 640.4 NM_006805.3 |
| 317 | 227.2 | 187.2 | 154.4 NM_002136.1 |
| 162.9 | 135.7 | 138.2 | 108.7 NM_031157.1 |
| 645.4 | 444 | 430.9 | 377.1 NR_002944.2 |
| 10362.7 | 8002.6 | 5440.8 | 6818.9 NM_031243.1 |
| 476.8 | 658 | 588.4 | 490.1 NM_194247.1 |
| 104.7 | 115.8 | 96 | 130.1 NR_002726.1 |
| 1063.2 | 778.2 | 719.2 | 441.9 NM_031266.2 |
| 2234.2 | 1566.2 | 1467.7 | 983.6 NM_004499.3 |
| 13183.1 | 7151 | 6440.4 | 5125.6 NM_031266.2 |
| 303.9 | 194.7 | 146.8 | 184.4 NM_031314.1 |
| 788.5 | 498.9 | 419.3 | 341 NM_001077442.1 |
| 93.2 | 91.5 | 90.5 | 90.7 NM_001013631.1 |
| 11055.2 | 6441.4 | 5673.9 | 5654.6 NM_031369.2 |
| 300.1 | 218.3 | 261 | 229.1 NM_031372.1 |
| 726.2 | 643.6 | 765.6 | 573.9 NM_005463.2 |
| 172.8 | 125.9 | 120.9 | 141 NM_004966.2 |
| 97.5 | 75.2 | 86.8 | 99.4 NM_005520.1 |

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| 254.4 | 237.2 | 178.9 | 195.9 | NM_019597.3 |
| 285.6 | 192.7 | 192.7 | 227.4 | NM_012207.1 |
| 94.3 | 96.1 | 98 | 94.2 | NM_021644.2 |
| 4846.7 | 3352.9 | 2371.3 | 3163.2 | NM_031263.1 |
| 1609.7 | 1216.6 | 1033.2 | 1096.1 | NM_001005335.1 |
| 141.1 | 148.8 | 127.1 | 123.2 | NM_138394.2 |
| 151.7 | 116.6 | 121.3 | 96.6 | NM_005968.2 |
| 5722.5 | 4019.2 | 4239.1 | 2303.1 | NM_031203.1 |
| 2034 | 2304.3 | 1981.4 | 1567.5 | NM_005826.2 |
| 528.1 | 608 | 780.8 | 763.6 | NM_004501.3 |
| 603.9 | 648.9 | 592.8 | 405.9 | NM_031844.2 |
| 1992.3 | 1030.9 | 820.9 | 1480.1 | NM_144732.1 |
| 4973.8 | 2852.7 | 2466.2 | 1507.5 | NM_144732.1 |
| 337.7 | 338.2 | 270.7 | 202.3 | NM_001079559.1 |
| 94.7 | 88.2 | 92.2 | 97.9 | NM_016522.2 |
| 89.8 | 97.2 | 90.7 | 92.6 | NM_001048209.1 |
| 90.6 | 82.3 | 80.9 | 87.6 | NM_001048209.1 |
| 124.3 | 104.9 | 96.5 | 112 | NM_004272.3 |
| 109.3 | 122.1 | 112.2 | 107.2 | NM_199332.2 |
| 128.1 | 157.1 | 135.3 | 115.2 | NM_004839.2 |
| 408.7 | 279.6 | 258.1 | 198.5 | NM_004838.2 |
| 88.1 | 100.6 | 90 | 95.3 | NM_080731.1 |
| 113.1 | 101.7 | 103.7 | 100.3 | NM_080731.1 |
| 463.5 | 457.8 | 464.1 | 282.4 | NM_080730.2 |
| 93 | 96.3 | 94.7 | 95.3 | NM_015888.3 |
| 191.9 | 172.1 | 190.5 | 165.5 | NM_013312.1 |
| 136.4 | 122.5 | 135.8 | 127.6 | NM_032410.2 |
| 92.4 | 92.2 | 88.8 | 90.7 | NM_032495.4 |
| 95.8 | 87.4 | 85.5 | 89 | NM_139211.2 |
| 89 | 79.1 | 70.2 | 81.4 | NM_139212.2 |
| 97.5 | 96.5 | 86.4 | 90.6 | NM_032132.2 |
| 85.1 | 87.2 | 81.1 | 83.3 | NM_152510.1 |
| 96.2 | 84.2 | 86.7 | 90 | NM_005522.3 |
| 112.4 | 105.7 | 102.8 | 101.5 | NM_005522.3 |
| 528.2 | 360.9 | 302.2 | 288.4 | NM_153715.1 |
| 133.8 | 93.6 | 105 | 91.6 | NM_153715.1 |
| 152.2 | 130.6 | 109.7 | 103.9 | NM_018951.2 |
| 137 | 155 | 125.9 | 119.6 | NM_005523.4 |
| 445.4 | 428 | 316.1 | 328.4 | NM_000522.2 |
| 92 | 80.7 | 83.1 | 79.4 | NM_006735.3 |
| 98 | 89.8 | 90.6 | 91 | NM_030661.3 |
| 88.2 | 97.8 | 93.8 | 86.2 | NM_153631.1 |
| 87.1 | 93.5 | 92.4 | 95 | NM_153632.1 |
| 89.2 | 86 | 80.2 | 84.7 | NM_153631.1 |
| 99.2 | 102.3 | 91.3 | 105.8 | NM_002141.2 |
| 416.7 | 292.8 | 306.4 | 210.1 | NM_019102.2 |
| 94.2 | 96.7 | 81.8 | 92.5 | NM_024014.2 |
| 99.9 | 87.4 | 91.6 | 93.6 | NM_006896.2 |
| 1764.4 | 1216.9 | 1215.4 | 1024.3 | NM_152739.2 |
| 118.7 | 117.1 | 101.4 | 105.5 | NM_152739.2 |

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| 137.6 | 152.3 | 155.2 | 136.8 NM_002144.2 |
| 88.7 | 73.1 | 84.6 | 89.5 NM_006361.4 |
| 82.1 | 88.4 | 79.8 | 89.7 NM_002145.2 |
| 96.5 | 95.2 | 94.2 | 94.3 NM_002146.3 |
| 95.8 | 94.7 | 100.7 | 90.5 NM_024015.3 |
| 79.6 | 85.9 | 80.3 | 87.5 NM_002147.2 |
| 140.9 | 149.6 | 145.8 | 119.8 NM_018952.3 |
| 135 | 113 | 117.2 | 115.8 NM_156036.1 |
| 182.6 | 97.5 | 92.7 | 95.4 NM_004502.2 |
| 84.8 | 80.2 | 81 | 82.9 NM_024016.2 |
| 79.4 | 88.6 | 77.7 | 86 NM_024017.3 |
| 87.2 | 89.6 | 85.3 | 93 NM_017409.2 |
| 117.7 | 91.9 | 99.8 | 107.4 NM_014212.2 |
| 92.5 | 78.8 | 79.7 | 83.8 NM_173860.1 |
| 98.7 | 90.1 | 94.7 | 85.1 NM_017410.2 |
| 103.5 | 94.5 | 88.8 | 106.2 NM_014620.2 |
| 87 | 87.8 | 95.8 | 88.5 NM_153633.1 |
| 86.7 | 90 | 87.2 | 92.3 NM_018953.2 |
| 104.3 | 97 | 99.6 | 89.2 NM_153693.3 |
| 90.2 | 89.9 | 83.9 | 82.2 NM_004503.2 |
| 126.1 | 99.1 | 110.1 | 104.3 NM_153693.1 |
| 84.9 | 96.8 | 85.1 | 90.6 NM_022658.3 |
| 75.3 | 80.7 | 83.7 | 79 NM_006897.1 |
| 88.6 | 88.4 | 84.4 | 85 NM_024501.1 |
| 84.2 | 81 | 72.9 | 82.8 NM_002148.2 |
| 87 | 80.9 | 82.1 | 87 NM_021192.2 |
| 136.6 | 112.8 | 121.2 | 106.1 NM_021193.2 |
| 134.8 | 127.5 | 112.5 | 115.9 NM_000523.2 |
| 121.2 | 121 | 123.9 | 95.3 NM_006898.4 |
| 96.2 | 90.1 | 85 | 84.8 NM_014621.2 |
| 104.3 | 113.3 | 95.9 | 95.7 NM_019558.2 |
| 83.5 | 87.7 | 91.5 | 83.6 NM_014213.2 |
| 102.3 | 145 | 140.4 | 118.6 NM_005143.2 |
| 186.1 | 163.9 | 149.5 | 155.9 NM_016287.2 |
| 96.8 | 92.1 | 82.1 | 97.8 NM_002143.2 |
| 110.8 | 102.6 | 108.7 | 110.3 NM_134421.1 |
| 3079.9 | 2604.6 | 2419.2 | 1477.3 NM_002149.2 |
| 100.7 | 98.9 | 79.9 | 94.7 NM_002149.2 |
| 75.9 | 80 | 76.6 | 87.6 NM_016257.2 |
| 92.7 | 88.8 | 77.4 | 84.7 NM_002150.2 |
| 95 | 85.8 | 84.9 | 88.2 NM_000860.3 |
| 95.2 | 84.2 | 93.2 | 89.1 NM_015852.1 |
| 86.3 | 78.1 | 84.2 | 92.2 NM_002151.1 |
| 85.4 | 97.9 | 101 | 90.2 NM_182983.1 |
| 85.1 | 77.8 | 79 | 90.4 NM_002151.1 |
| 97.3 | 90.8 | 98.1 | 99.8 NM_020995.3 |
| 3705.3 | 2523.6 | 2253.3 | 1651.1 NM_000194.1 |
| 194.9 | 162.3 | 152.1 | 143.6 NM_182639.1 |
| 260.8 | 208.3 | 185 | 142.8 NM_182639.1 |
| 136.1 | 116.3 | 107.4 | 126.3 NM_182637.1 |

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| 250.3 | 208 | 154.1 | 162.4 NM_032383.3 |
| 86 | 83.6 | 89.8 | 88.1 NM_152841.1 |
| 118.6 | 121.9 | 116.5 | 107.1 NM_152843.1 |
| 154.4 | 184.6 | 189.6 | 137.8 NM_152843.1 |
| 84.3 | 99.8 | 81.7 | 96.2 NM_022081.4 |
| 476.2 | 423 | 380.1 | 290.7 NM_007216.3 |
| 99.5 | 99.5 | 102.5 | 98.3 NM_181507.1 |
| 1391.3 | 838.1 | 826 | 393.4 NM_024747.4 |
| 142.9 | 133.7 | 107.5 | 124 NM_006665.3 |
| 84.9 | 85 | 76 | 86.1 NM_021828.2 |
| 94.7 | 84.7 | 79.6 | 85.7 NM_000613.1 |
| 84.1 | 73.6 | 75 | 85.4 NM_005144.3 |
| 88.4 | 81.5 | 79.4 | 79 NM_018411.3 |
| 367.6 | 242.3 | 232.8 | 168.2 NM_176795.2 |
| 93.6 | 88.3 | 90.9 | 89.3 NM_176795.2 |
| 96 | 96 | 85.6 | 86.1 NM_020386.2 |
| 80.6 | 94.6 | 79.6 | 98.9 NM_017878.1 |
| 86.2 | 93.4 | 88.6 | 79.3 NM_007069.1 |
| 86.8 | 91.9 | 93.5 | 98.5 NM_054108.1 |
| 104.7 | 96.2 | 104.5 | 95.6 NM_004504.3 |
| 176.2 | 174.9 | 142.8 | 150.6 NM_007043.5 |
| 96.8 | 102.4 | 107.4 | 95.7 NM_006076.3 |
| 125 | 113.7 | 108 | 114.5 NM_002152.2 |
| 95.4 | 87.4 | 77.3 | 85.8 NM_000412.2 |
| 99.6 | 97.9 | 87.9 | 87 NM_000861.2 |
| 93.2 | 89.2 | 77.6 | 87.9 NM_022304.1 |
| 85.9 | 78.8 | 76.9 | 91.8 NM_007232.1 |
| 89.8 | 84.3 | 81.6 | 87.8 NM_021624.2 |
| 148.9 | 171.3 | 155.6 | 130.3 NM_138632.1 |
| 110.4 | 119.2 | 120.7 | 128.8 NM_138632.1 |
| 564 | 525.3 | 502.1 | 323.1 NM_007032.3 |
| 79.2 | 82.6 | 72.7 | 77.9 NM_003806.1 |
| 84.8 | 79.7 | 81.8 | 93.2 NM_001009931.1 |
| 149.2 | 144.5 | 114.9 | 123.4 NM_005836.2 |
| 200.2 | 180.8 | 156.6 | 164.8 NM_022460.3 |
| 104.4 | 115.6 | 96.9 | 99.9 NM_012262.2 |
| 93.7 | 101.7 | 83.4 | 96.2 NM_005114.2 |
| 95.7 | 99.9 | 102.4 | 98.9 NM_006043.1 |
| 155.9 | 135.7 | 123.9 | 110.2 NM_006042.1 |
| 100.7 | 100.9 | 90.1 | 95.6 NM_006041.1 |
| 95.6 | 95.1 | 84.3 | 81 NM_006040.1 |
| 82.5 | 84.1 | 79.1 | 78.6 NM_153612.2 |
| 93.9 | 80.3 | 77.9 | 85.6 NM_001009606.1 |
| 111.6 | 107.6 | 111.2 | 91 NM_004807.1 |
| 93.2 | 80.7 | 88.9 | 83.4 NM_001077188.1 |
| 88.9 | 82.1 | 80.6 | 84.3 NM_147175.2 |
| 94.5 | 86.6 | 90.1 | 91.4 NM_001077188.1 |
| 97.3 | 92.4 | 97.7 | 92.7 XM_931159.1 |
| 93.1 | 86.7 | 88.8 | 92 NM_015370.1 |
| 1022.7 | 627.2 | 564 | 428.4 NM_014473.2 |

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| 1791.1 | 1505.2 | 1442.4 | 978.4 | NM_001537.2 |
| 686 | 556.1 | 626 | 413.6 | NM_020677.2 |
| 332.1 | 314.5 | 344.4 | 247.4 | NM_172002.3 |
| 866.6 | 338 | 275.3 | 283.2 | NM_005525.2 |
| 953.1 | 418.1 | 340 | 318.4 | NM_181755.1 |
| 408.7 | 203.8 | 180 | 166.2 | NM_181755.1 |
| 108.2 | 119.9 | 106.6 | 101.5 | NM_198707.1 |
| 88.8 | 77 | 80.9 | 81.8 | NM_000196.2 |
| 85.5 | 85.4 | 94.3 | 85.4 | NM_000413.1 |
| 4252.4 | 2676.3 | 2773.1 | 2432.3 | NM_016142.1 |
| 99.5 | 89.8 | 94.6 | 92.3 | NM_178135.2 |
| 91.7 | 95.2 | 79.6 | 91.6 | NM_002153.1 |
| 96.7 | 91.1 | 102.9 | 93 | NM_000197.1 |
| 1237.6 | 1768.4 | 1218.3 | 1343.3 | NM_000414.1 |
| 158.7 | 116.2 | 121.5 | 106.9 | NM_003725.2 |
| 164.1 | 187 | 166.1 | 160.7 | NM_014234.3 |
| 86.3 | 87.5 | 89.3 | 85.1 | NM_000862.1 |
| 87.6 | 92.2 | 93.1 | 86.3 | NM_000198.2 |
| 105 | 98.1 | 90.1 | 92.3 | NM_025193.2 |
| 159.9 | 133.4 | 145.5 | 138.3 | NM_031463.3 |
| 291.5 | 366.2 | 285.2 | 352.3 | NM_032303.2 |
| 139.4 | 124.7 | 128 | 128.7 | NM_005526.1 |
| 469.2 | 451.9 | 331.3 | 380.2 | NM_004506.2 |
| 140 | 155.9 | 141.5 | 136.8 | NM_007031.1 |
| 92 | 109 | 102.8 | 106.7 | NM_001538.1 |
| 96.2 | 98.3 | 68.4 | 89.1 | NM_001538.1 |
| 76.5 | 103.8 | 76.9 | 81.6 | NM_001080439.1 |
| 87.6 | 95.5 | 82.9 | 89 | NM_016153.1 |
| 108.9 | 86.6 | 92.6 | 93.9 | NM_001001871.1 |
| 92.6 | 80.4 | 84.1 | 80.3 | NM_152584.1 |
| 90.2 | 85.6 | 88.3 | 95.4 | NM_153716.1 |
| 75 | 85.1 | 64.5 | 77.3 | NM_153716.1 |
| 182.3 | 215.7 | 190.4 | 207.4 | NM_032855.2 |
| 472.9 | 544.4 | 551.1 | 495.5 | NM_017520.2 |
| 95 | 115.5 | 116.8 | 128.2 | NM_213655.1 |
| 98.1 | 93.7 | 90.4 | 91.4 | NM_001017963.1 |
| 15454.3 | 13016.4 | 10997.9 | 9742.8 | NM_005348.2 |
| 7440.5 | 5894.6 | 4797 | 3917.1 | NM_007355.2 |
| 102.8 | 100.8 | 89.1 | 98.2 | NR_003132.1 |
| 85.2 | 89.4 | 80.8 | 84.6 | NR_002927.1 |
| 8632.1 | 14169.6 | 11508.6 | 7304.5 | NM_003299.1 |
| 97.6 | 97.2 | 84.5 | 96.2 | NR_003130.1 |
| 89.5 | 94 | 82 | 85.9 | NM_025015.2 |
| 104 | 100.5 | 91.8 | 90.4 | NM_052970.3 |
| 1131.4 | 498.5 | 451 | 365.1 | NM_016299.1 |
| 132.1 | 123.9 | 120.3 | 114.8 | NM_005345.4 |
| 4283.1 | 1893 | 1460.9 | 1111.2 | NM_005346.3 |
| 197.4 | 195.5 | 200.5 | 152.8 | NM_005527.2 |
| 103.1 | 91.8 | 88.8 | 101.3 | NM_021979.2 |
| 206.7 | 167.7 | 158.4 | 147.6 | NM_002154.3 |

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| 141.3 | 172.9 | 125.9 | 117.5 NM_198431.1 |
| 2128.7 | 1907.1 | 1584.3 | 1236.5 NM_198431.1 |
| 277.6 | 195.3 | 141.5 | 162.9 NM_014278.2 |
| 1113.7 | 1410.8 | 1209.4 | 810.7 NM_005347.2 |
| 13819.9 | 9697.7 | 6751.9 | 6900.2 NM_153201.1 |
| 11129.5 | 6171.8 | 4674.1 | 4921.3 NM_006597.3 |
| 2228.4 | 2558.1 | 1930.4 | 1762.6 NM_004134.4 |
| 4550.4 | 2132.8 | 2011.3 | 1400 NM_001540.2 |
| 94.9 | 102.3 | 93.9 | 94.7 NM_001541.2 |
| 93.7 | 91.5 | 92.1 | 88.6 NM_006308.1 |
| 112 | 102.5 | 95.7 | 100 NM_144617.1 |
| 130.5 | 125 | 119.7 | 114.6 NM_014424.3 |
| 82.7 | 78.4 | 81.6 | 85.7 NM_014365.2 |
| 92.3 | 88.5 | 81.3 | 94.1 NM_033194.1 |
| 200.1 | 156.2 | 169.7 | 140.7 NM_024610.3 |
| 136.1 | 101.3 | 104.5 | 114.1 NM_012267.2 |
| 145.3 | 115.1 | 95.6 | 92.5 XM_938008.1 |
| 1437 | 1110.7 | 1019 | 643.7 NM_014047.1 |
| 433.2 | 352.2 | 353.9 | 309.9 NM_014149.2 |
| 100.5 | 95 | 95.1 | 92.2 NM_014157.2 |
| 82.3 | 78.6 | 81.2 | 85.6 NM_014162.1 |
| 99.1 | 88.8 | 87.7 | 85.8 NM_145168.1 |
| 412.3 | 321.9 | 250.7 | 203.6 NM_016391.2 |
| 911.5 | 838.1 | 717.1 | 575.6 NM_014306.2 |
| 428.7 | 387.1 | 312.3 | 296 NM_014173.2 |
| 1596 | 1262.6 | 1154.6 | 890.5 NM_014173.2 |
| 1306 | 1204.8 | 976.2 | 839.2 NM_016403.1 |
| 1697.8 | 946.5 | 906.7 | 684.4 NM_016404.1 |
| 108.6 | 90.5 | 98.2 | 92.1 NM_014181.1 |
| 585.3 | 479.3 | 457.9 | 344.6 NM_014187.1 |
| 2361.2 | 1541.3 | 1736.3 | 1016.8 NM_016209.1 |
| 427.7 | 329.7 | 346.7 | 229.9 NM_016464.2 |
| 649.9 | 671.8 | 915.2 | 917.4 NM_197964.1 |
| 6702.6 | 6858.6 | 4530.9 | 4906.2 NM_002156.4 |
| 97.4 | 91.6 | 98.3 | 98.5 NM_199440.1 |
| 175 | 151 | 141.8 | 134.9 NM_002156.4 |
| 1197.9 | 799.9 | 761.3 | 838.8 NM_002157.1 |
| 94.3 | 91.4 | 89.9 | 89.2 NM_005529.3 |
| 4114 | 2536.4 | 1969.2 | 1668.5 NM_006644.2 |
| 885.8 | 387 | 453.2 | 219.7 NM_013301.1 |
| 474.5 | 359.8 | 335.2 | 360.5 NM_001080493.1 |
| 255.4 | 210 | 218.7 | 167.3 XM_936858.1 |
| 108.8 | 104.1 | 100.7 | 85.5 NM_182709.1 |
| 92.8 | 88.3 | 86.7 | 89.4 NM_182710.1 |
| 1650 | 1153.7 | 877.2 | 723.3 NM_006410.3 |
| 93 | 77.3 | 75.4 | 83.8 NM_014500.3 |
| 112.9 | 101.7 | 97.5 | 87.3 NM_022727.4 |
| 107.4 | 115.7 | 112.2 | 109.7 NM_022727.4 |
| 111.8 | 110.3 | 96.8 | 113.2 NM_182984.3 |
| 1000.9 | 819 | 706.3 | 778.5 NM_002158.2 |

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|-------|--------|-------|-------------------|
| 82.6 | 83.9 | 76.8 | 72.2 NM_002159.2 |
| 91.8 | 105.8 | 99 | 96.6 NM_000200.1 |
| 100.6 | 81.4 | 83 | 87.2 NM_000524.2 |
| 89.3 | 78.7 | 82.8 | 84 NM_000863.1 |
| 94.7 | 96.3 | 94.3 | 91.4 NM_000864.3 |
| 110.8 | 103 | 108.3 | 88.2 NM_000865.1 |
| 98.5 | 95 | 84.4 | 82.8 NM_000866.1 |
| 414.7 | 480.2 | 529.3 | 468.2 NM_000621.2 |
| 104.5 | 88.9 | 95 | 91.7 NM_000867.2 |
| 101.8 | 99.2 | 99.4 | 97 NM_000868.1 |
| 90.7 | 92 | 91.3 | 94.7 NM_000869.2 |
| 94.4 | 101.2 | 89.5 | 90.3 NM_213621.1 |
| 93.4 | 89.1 | 86.4 | 91 NM_000869.2 |
| 92.3 | 91.5 | 90.8 | 81.6 NM_006028.3 |
| 88.3 | 82 | 83.9 | 92.4 NM_130770.2 |
| 89 | 95.5 | 82.8 | 89.8 NM_182537.2 |
| 85.9 | 90.4 | 82.3 | 88.3 NM_182589.2 |
| 74.2 | 74.5 | 75.5 | 74 NM_001040174.1 |
| 94 | 88.2 | 92.3 | 87 NM_000870.2 |
| 111.8 | 105.6 | 106.7 | 99.5 NM_199453.1 |
| 92.5 | 87 | 69.7 | 84.7 NM_199453.1 |
| 83.4 | 80.3 | 78.4 | 85.5 NM_024012.1 |
| 102.1 | 111.4 | 82.8 | 89.6 NM_000871.1 |
| 93.3 | 88.1 | 81.1 | 78.7 NM_000872.3 |
| 102.6 | 101 | 92.2 | 89 NM_019859.2 |
| 85 | 83.6 | 88.3 | 79.6 NR_002774.1 |
| 96.1 | 85.3 | 80.4 | 92.7 NM_002775.3 |
| 246.5 | 223 | 196.4 | 192.5 NM_013247.4 |
| 178.7 | 218.9 | 179.6 | 145.5 NM_145074.2 |
| 87.8 | 90.5 | 85.7 | 89.8 NM_053044.2 |
| 99.2 | 104.8 | 95.4 | 99 NM_153692.2 |
| 87.8 | 91.8 | 88.5 | 85 NM_014586.1 |
| 86.9 | 83.4 | 85.4 | 87 NM_004507.2 |
| 111 | 106.8 | 104.8 | 115.9 NM_148959.2 |
| 122.2 | 207.3 | 156.3 | 167.2 NM_031407.3 |
| 89.4 | 89.7 | 100.4 | 96 NM_153281.1 |
| 88.9 | 83 | 84.3 | 88.8 NM_153283.1 |
| 95.9 | 90.8 | 96.4 | 92.6 NM_153281.1 |
| 83.1 | 90.6 | 88.8 | 77.4 NM_007312.3 |
| 95.9 | 87.5 | 87 | 82 NM_033158.2 |
| 153.5 | 163.1 | 143.7 | 146.6 NM_003773.2 |
| 87.7 | 92.4 | 64.7 | 83.1 NM_003773.2 |
| 903 | 1042.3 | 966.9 | 884 NM_003549.2 |
| 87.5 | 93.3 | 89.2 | 81.6 NM_012269.1 |
| 95.6 | 84.8 | 86.7 | 89.7 NM_017558.2 |
| 85.5 | 82 | 81.6 | 83.9 NM_032821.2 |
| 77 | 86.3 | 80.2 | 88.6 NM_032821.2 |
| 96.5 | 91.4 | 90.1 | 95.1 XM_936224.1 |
| 168.3 | 189.3 | 175.9 | 159.6 NM_031207.2 |
| 731.7 | 342.5 | 282 | 278.9 NM_145014.1 |

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|--------|--------|--------|--------|----------------|
| 454.5 | 401.5 | 299.3 | 250.6 | NM_006389.2 |
| 714.2 | 981.8 | 1020.4 | 619.4 | NM_012271.1 |
| 173.7 | 189.1 | 197.6 | 139 | NM_007076.2 |
| 2120.3 | 2951.1 | 4201.8 | 3385.6 | NM_016400.2 |
| 1964.8 | 1566.6 | 1229.6 | 1203.8 | NM_001039613.1 |
| 85.9 | 99.8 | 89.2 | 96.7 | NM_000415.1 |
| 1680.1 | 1203.1 | 850.8 | 803.7 | NM_002161.2 |
| 92.2 | 91.2 | 88.7 | 92.8 | NM_013417.1 |
| 1924.1 | 2032.1 | 1394 | 1718.2 | NM_018060.3 |
| 121.9 | 135.1 | 100.3 | 120.3 | NM_152553.2 |
| 100.2 | 132.5 | 112 | 138.3 | NM_182757.2 |
| 131.3 | 148.6 | 122.4 | 136.8 | NM_153341.1 |
| 90.9 | 90.6 | 93.8 | 95.2 | NM_004967.2 |
| 585.9 | 573.9 | 595 | 659.4 | NM_015525.2 |
| 229.2 | 260.8 | 249.6 | 227.9 | NM_004968.2 |
| 325.7 | 476.1 | 539 | 303.7 | NM_022308.1 |
| 87.5 | 90.6 | 81.3 | 88.8 | NM_004968.2 |
| 109.5 | 93.9 | 102.7 | 89.5 | NM_178231.2 |
| 115.6 | 103.9 | 91.6 | 103.3 | NM_178231.2 |
| 83.6 | 94.2 | 85.6 | 86.3 | NM_000201.1 |
| 200.2 | 223.6 | 248 | 185.4 | NM_000873.2 |
| 882 | 1264.9 | 1147.7 | 952.5 | NM_002162.2 |
| 98.5 | 116.1 | 108.1 | 116.7 | NM_001544.2 |
| 99.9 | 104.3 | 103.3 | 96.4 | NM_022377.1 |
| 113.4 | 94.5 | 84.9 | 87.9 | NM_001544.3 |
| 100.7 | 86.7 | 88.5 | 80.5 | NM_003259.2 |
| 87.2 | 84.9 | 80.3 | 85.1 | NM_021571.2 |
| 93.3 | 93.6 | 100 | 88.8 | NM_016513.3 |
| 88.6 | 86.8 | 79.2 | 83.1 | NM_014920.2 |
| 444 | 451 | 348.9 | 298.8 | NM_012405.2 |
| 97.1 | 97.4 | 100.9 | 109.1 | NM_012092.2 |
| 135.7 | 152.4 | 124.5 | 130.2 | NM_015259.4 |
| 481.5 | 390.2 | 393.9 | 304.6 | NM_001545.1 |
| 118.5 | 101.9 | 101.1 | 107.9 | NM_181353.1 |
| 386.7 | 290.9 | 164.6 | 149.7 | NM_181353.1 |
| 755.4 | 706 | 570.4 | 450.3 | NM_002166.4 |
| 444.9 | 347.5 | 218.9 | 182.9 | NM_002167.2 |
| 80.3 | 77.5 | 75.4 | 91.5 | NM_001546.2 |
| 294.5 | 217.4 | 182.1 | 179.7 | NM_004969.1 |
| 2175 | 1406.8 | 1111.4 | 1075.4 | NM_005896.2 |
| 1652.3 | 1214.5 | 1123.1 | 995.5 | NM_002168.2 |
| 466.6 | 538.2 | 393.7 | 350.5 | NM_005530.2 |
| 1373.6 | 1016.8 | 921.5 | 596 | NM_174855.1 |
| 102.3 | 101.2 | 99.2 | 95.3 | NM_174856.1 |
| 949.5 | 692.4 | 657.8 | 450.1 | NM_006899.2 |
| 123.2 | 98.5 | 103.6 | 90.8 | NM_174869.1 |
| 837.9 | 745.8 | 619.3 | 515.1 | NM_004135.2 |
| 236.3 | 165.8 | 190.9 | 200.4 | NM_004508.2 |
| 84.4 | 83.4 | 79.9 | 78.8 | NM_033261.2 |
| 302.5 | 408.7 | 366.3 | 315.3 | NM_000202.2 |

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| 121.8 | 113.1 | 104 | 102.3 NM_006123.1 |
| 264.7 | 269.6 | 233.1 | 242.2 NM_006123.1 |
| 160.9 | 227.4 | 197.1 | 206.7 NM_000203.2 |
| 94.4 | 104.7 | 94.6 | 104.1 NM_004907.2 |
| 82.9 | 80.4 | 86.1 | 82.7 NM_052815.1 |
| 306.3 | 251.7 | 272 | 281.9 NM_016097.2 |
| 320.8 | 241.1 | 223.2 | 216 NM_016545.3 |
| 134.2 | 122.8 | 122.3 | 128.5 NM_203434.1 |
| 174.3 | 173.3 | 158.4 | 164.7 NM_005531.1 |
| 118.5 | 79.8 | 79.6 | 88.1 NM_005532.3 |
| 97.1 | 211.8 | 204.2 | 144.1 NM_006332.3 |
| 633.3 | 587.8 | 564.5 | 446.4 NM_005533.2 |
| 154.9 | 136.8 | 129.1 | 111.8 NM_006417.2 |
| 92 | 93 | 84.2 | 86.7 NM_006820.1 |
| 187.7 | 151.6 | 136.4 | 110.6 NM_022872.2 |
| 165.8 | 140.2 | 137.2 | 162.1 NM_022168.2 |
| 127.5 | 94.2 | 92.9 | 93.3 NM_001548.2 |
| 82.7 | 78.3 | 78.1 | 90.7 NM_001010987.1 |
| 197.9 | 122.6 | 115.1 | 108.5 NM_001547.3 |
| 128.5 | 100.5 | 91.2 | 93.7 NM_001549.2 |
| 136.1 | 91.1 | 91.8 | 93.6 NM_001549.2 |
| 99 | 79.2 | 83.1 | 90.2 NM_001031683.1 |
| 95.7 | 92 | 86.2 | 93 NM_012420.1 |
| 595.9 | 201.3 | 194.7 | 138.6 NM_003641.2 |
| 3353.6 | 1573.7 | 1423.7 | 996.3 NM_006435.1 |
| 1511.9 | 696.8 | 581.5 | 499.5 NM_021034.1 |
| 96.6 | 77.5 | 86.8 | 93.1 NR_001590.1 |
| 92.3 | 91.1 | 92.1 | 83.5 NM_001025295.1 |
| 87.7 | 80.9 | 77.4 | 76.3 NM_024013.1 |
| 114 | 115.2 | 107.3 | 107.4 NM_002171.1 |
| 84 | 89.6 | 81.6 | 88.2 NM_006900.2 |
| 99.9 | 96 | 86.1 | 101.4 NM_002172.1 |
| 94.3 | 93.1 | 102.5 | 94.7 NM_002173.1 |
| 82.4 | 78.5 | 74.9 | 78.4 NM_021268.1 |
| 85.1 | 91.1 | 78.3 | 84.5 NM_000605.2 |
| 103.4 | 107.2 | 102 | 94.3 NM_002175.1 |
| 88.1 | 79.8 | 84.3 | 76.1 NM_021068.1 |
| 94.8 | 83.9 | 76.8 | 86.4 NM_002169.1 |
| 83.2 | 76.4 | 74.9 | 72.9 NM_021002.1 |
| 81.9 | 87.1 | 83.8 | 92.3 NM_021057.2 |
| 168.6 | 152.2 | 155.1 | 143.3 NM_002170.3 |
| 317.5 | 394.5 | 343.5 | 247.2 NM_000629.2 |
| 301.6 | 384.3 | 395.6 | 379.5 NM_207585.1 |
| 794.9 | 813 | 680.8 | 633.5 NM_207584.1 |
| 85 | 82.6 | 94.6 | 86.7 NM_207584.1 |
| 107 | 77.5 | 76.9 | 81.2 NM_002176.2 |
| 98.5 | 99.9 | 94.2 | 98.9 NM_176891.3 |
| 106.1 | 94.1 | 93.9 | 101.2 NM_000619.2 |
| 1596 | 2025.8 | 1647.5 | 1338.1 NM_000416.1 |
| 2794.7 | 2481.8 | 2354.8 | 1623.5 NM_005534.2 |

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| 85.8 | 94.4 | 77.9 | 79.5 NM_020124.1 |
| 87.5 | 81.6 | 87.2 | 79.6 NM_002177.1 |
| 276.1 | 262.9 | 241.7 | 227.8 NM_001550.2 |
| 116.3 | 107.8 | 106.5 | 103.7 NM_001007245.1 |
| 414.9 | 280.1 | 265 | 208.7 NM_006764.3 |
| 98.4 | 90.7 | 87.8 | 98.2 NM_022347.1 |
| 85.1 | 84 | 81.3 | 76.9 NM_052985.1 |
| 249.4 | 168.2 | 185.6 | 172.1 NM_052989.1 |
| 322.4 | 322 | 327.2 | 179.9 NM_018262.2 |
| 101.3 | 99.4 | 92.8 | 97.1 NM_014714.2 |
| 115.9 | 126.1 | 131.8 | 115 NM_015662.1 |
| 167.9 | 156.7 | 142.2 | 191.6 NM_016004.2 |
| 144.3 | 119.5 | 104.2 | 108.9 NM_018010.2 |
| 209.3 | 176.3 | 171.4 | 146.1 NM_025103.1 |
| 81.3 | 89.8 | 85.6 | 81.4 NM_020800.1 |
| 111.7 | 106.5 | 113.4 | 115.4 NM_031473.2 |
| 89.2 | 102.8 | 87.8 | 88.9 NM_014055.2 |
| 116.8 | 113.7 | 98.2 | 102.8 NM_031473.2 |
| 130 | 124.2 | 114.4 | 121.7 NM_006531.3 |
| 407.1 | 393.9 | 359.8 | 397.8 NM_001551.2 |
| 80.8 | 90.8 | 84.8 | 86.4 NM_000618.2 |
| 86.5 | 85.5 | 89.1 | 87.1 NM_000875.2 |
| 89.4 | 86.7 | 77.9 | 82.7 NM_001007139.3 |
| 97.5 | 88.2 | 83.8 | 92.8 NM_001007139.3 |
| 84.6 | 79.1 | 78.7 | 81.1 NM_016412.1 |
| 85.4 | 91 | 83.8 | 93.7 NM_006546.3 |
| 1735 | 1722.6 | 1342.8 | 2190 NM_006548.4 |
| 95.4 | 129.9 | 133.9 | 137.7 NM_006547.2 |
| 1957 | 5091.4 | 5032.3 | 2273.4 NM_000876.1 |
| 97.6 | 91.8 | 97 | 98.6 NM_004970.1 |
| 87.8 | 87.3 | 87.7 | 82.8 NM_001013029.1 |
| 331.5 | 546.7 | 481.9 | 433.5 NM_000597.2 |
| 90 | 89.2 | 84.3 | 85.6 NM_001013398.1 |
| 96.1 | 90.1 | 86.8 | 89.1 NM_001013398.1 |
| 309.8 | 179.4 | 129.5 | 171.2 NM_001552.2 |
| 85.2 | 80.8 | 71.4 | 84.9 NM_000599.2 |
| 87.4 | 92.7 | 105.9 | 91.2 NM_002178.2 |
| 2136.8 | 1734 | 1435.1 | 1162 NM_001553.1 |
| 90.1 | 88.3 | 88.4 | 87.9 NM_001007563.1 |
| 99.2 | 96.1 | 85.5 | 94.9 NM_198541.1 |
| 88.5 | 83.8 | 84.2 | 84.9 NM_001002915.1 |
| 83.5 | 78.3 | 84.3 | 93 NM_207393.1 |
| 96.6 | 80.6 | 84.6 | 84.5 NM_001002923.1 |
| 133.2 | 140.4 | 118.8 | 105 NM_002180.1 |
| 93.3 | 80.6 | 85.8 | 78.3 NM_144646.2 |
| 83 | 90.5 | 87.4 | 87.8 NM_020070.2 |
| 101.6 | 94.2 | 94.2 | 89.6 NM_020070.2 |
| 117 | 97.4 | 102.3 | 95.1 NM_001555.2 |
| 102.7 | 93.6 | 85.5 | 84.6 NM_205833.1 |
| 109.7 | 106 | 97.1 | 92.9 NM_205833.1 |

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| 86.1 | 76.7 | 72.4 | 78.2 NM_178822.3 |
| 91.1 | 81.9 | 84 | 88.5 NM_001015887.1 |
| 92.5 | 100.2 | 98.1 | 91.4 NM_001015887.1 |
| 99.8 | 103.3 | 108.4 | 100.2 NM_152538.2 |
| 97.1 | 102.9 | 94.4 | 101.3 NM_004258.1 |
| 79.5 | 83.5 | 78.7 | 85.8 NM_032880.2 |
| 88.9 | 79.1 | 77 | 84.2 NM_173588.1 |
| 247.9 | 189.7 | 184.8 | 174.5 NM_001542.2 |
| 102.4 | 98.9 | 93.7 | 94.9 NM_001542.2 |
| 102.5 | 102.6 | 90.8 | 92.6 NM_014333.2 |
| 85.3 | 87 | 87.4 | 91.2 NM_021189.2 |
| 87.4 | 81.6 | 71.9 | 80.4 NM_145296.1 |
| 91 | 87.3 | 85.9 | 87.4 NM_153184.2 |
| 121.3 | 142.9 | 130.4 | 118.4 NM_005849.1 |
| 103.9 | 101.5 | 91 | 111.1 NM_052868.1 |
| 79.6 | 89.3 | 78.2 | 87.5 NM_020789.2 |
| 87.7 | 81.2 | 84.1 | 90.2 NM_002181.1 |
| 88.6 | 94 | 76.5 | 87.9 NM_153273.3 |
| 576.7 | 493.4 | 513.7 | 269.1 NM_001006115.2 |
| 939.8 | 642.8 | 572 | 412.1 NM_153273.3 |
| 230.5 | 193.9 | 179.8 | 161.5 NM_001005911.1 |
| 158.1 | 142.8 | 128.4 | 104.9 NM_016291.2 |
| 90 | 93.8 | 92.2 | 96.8 NM_054111.2 |
| 227.6 | 201.3 | 173.8 | 174.4 NM_001025374.1 |
| 106.2 | 99.1 | 117.3 | 112.4 NM_001025374.1 |
| 841.3 | 1015.1 | 739.1 | 716.2 NM_006083.2 |
| 111.6 | 104.8 | 100.2 | 97 NM_003640.2 |
| 104.6 | 100 | 96.4 | 120 NM_001556.1 |
| 212 | 159.2 | 161.1 | 160.7 NM_014002.2 |
| 1293.5 | 1057.1 | 1141.1 | 604.8 NM_003639.2 |
| 133.8 | 182.1 | 157.1 | 130.6 NM_201612.1 |
| 110.4 | 120.1 | 123.2 | 94.4 NM_153687.2 |
| 128 | 129.9 | 121.1 | 108.5 NM_201612.1 |
| 91.8 | 83.8 | 80.4 | 88.9 NM_012481.3 |
| 542.3 | 1130 | 1682.4 | 709 NM_000572.2 |
| 147.3 | 191.9 | 130.9 | 157.4 NM_001558.2 |
| 4278.5 | 3740.6 | 3720.6 | 2510.3 NM_000628.3 |
| 84.2 | 77 | 74.9 | 80.2 NM_000641.2 |
| 143 | 131.1 | 135.6 | 143.2 NM_147162.1 |
| 576 | 650.2 | 747.8 | 475 NM_004512.3 |
| 84.9 | 86.4 | 82 | 83.5 NM_147162.1 |
| 103.5 | 88.3 | 89 | 89.4 NM_000882.2 |
| 105.5 | 98.9 | 84.6 | 89 NM_002187.2 |
| 96.9 | 94.5 | 91.2 | 86.7 NM_005535.1 |
| 154.5 | 117.9 | 110.4 | 108.2 NM_005535.1 |
| 160.2 | 114.4 | 112.1 | 104.9 NM_153701.1 |
| 147.8 | 133.5 | 118.6 | 118.1 NM_001559.2 |
| 81.7 | 80.8 | 74.1 | 75.4 NM_002188.2 |
| 1118.3 | 1450.5 | 1292.3 | 922.1 NM_001560.2 |
| 92 | 87.1 | 78.3 | 88.4 NM_000640.2 |

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| 96.3 | 90.7 | 81.5 | 88.1 NM_172174.1 |
| 93.9 | 83.5 | 78.7 | 82.9 NM_172174.1 |
| 115.6 | 100 | 110.9 | 97.7 NM_172174.1 |
| 79.6 | 82.9 | 78.5 | 76.5 NM_172200.1 |
| 88.1 | 78.5 | 93.7 | 89.6 NM_002189.2 |
| 86.2 | 86.6 | 85.2 | 85 NM_172200.1 |
| 95.9 | 97.4 | 106.2 | 111.9 NM_172217.1 |
| 112.7 | 113.4 | 121.5 | 104.1 NM_172217.1 |
| 83.4 | 76.8 | 73.3 | 89.1 NM_002190.2 |
| 90.6 | 84.3 | 83.5 | 80.1 NM_014443.2 |
| 101.2 | 93.1 | 96.8 | 87.9 NM_013278.3 |
| 166.7 | 161.7 | 158.7 | 112.7 NM_138284.1 |
| 90.3 | 95.8 | 91.6 | 86.8 NM_022789.2 |
| 90.5 | 83.7 | 78.2 | 79.6 NM_052872.3 |
| 253.9 | 286.3 | 254.1 | 276.7 NM_014339.3 |
| 85.7 | 84.6 | 76.3 | 78.5 NM_172234.1 |
| 78.8 | 74.3 | 77.7 | 89 NM_032732.3 |
| 94.5 | 90.6 | 90.4 | 93.4 NM_032732.2 |
| 95.4 | 97 | 85.2 | 92.6 NM_153461.1 |
| 86.7 | 90.6 | 87.8 | 97.1 NM_017563.1 |
| 490.3 | 664.4 | 1245.1 | 691.6 NM_001080973.1 |
| 83.6 | 81.4 | 83.6 | 84.3 NM_001080973.1 |
| 92.1 | 93.8 | 86.6 | 89.6 NM_144640.2 |
| 96.7 | 87.1 | 87.7 | 97.8 NM_153480.1 |
| 79.7 | 83.2 | 81 | 91.1 NM_153483.1 |
| 3817.2 | 5990.2 | 7499 | 4980.1 NM_001562.2 |
| 93.4 | 87.8 | 94.6 | 81.3 NM_173042.2 |
| 397.1 | 654.4 | 658.1 | 371.7 NM_173042.2 |
| 90.7 | 96.9 | 82.1 | 90.1 NM_003855.2 |
| 95.3 | 93.7 | 89.7 | 89.2 NM_003853.2 |
| 86.8 | 76.5 | 80.1 | 75.3 NM_153758.1 |
| 117.1 | 95.7 | 101.3 | 105.4 NM_013371.2 |
| 97.5 | 79.7 | 89.3 | 92.5 NM_000575.3 |
| 168 | 226.5 | 148 | 153.1 NM_000576.2 |
| 92 | 75.4 | 72.5 | 89 NM_032556.4 |
| 83.9 | 95.1 | 80.1 | 86.8 NM_173161.1 |
| 93.6 | 85.9 | 90.4 | 89.6 NM_012275.2 |
| 99.3 | 92.6 | 91.6 | 90.5 NM_173170.1 |
| 94.8 | 93.8 | 79.4 | 83.7 NM_014440.1 |
| 95.8 | 101.8 | 98 | 105.9 NM_173205.1 |
| 147.2 | 135.9 | 135.7 | 111.1 NM_014439.3 |
| 87.4 | 92.8 | 70.2 | 75.3 NM_173204.1 |
| 92.1 | 79.7 | 84.3 | 83.3 NM_173178.1 |
| 91.7 | 92.1 | 79.3 | 91.1 NM_014438.3 |
| 101.1 | 92.9 | 85.8 | 92.8 NM_173178.1 |
| 88.7 | 89.8 | 72 | 84.5 NM_019618.2 |
| 89.1 | 85.8 | 87.5 | 92.4 NM_000877.2 |
| 85.3 | 83.4 | 78.9 | 79.2 NM_004633.3 |
| 94.2 | 92 | 74.3 | 88.9 NM_173343.1 |
| 91.6 | 93.1 | 89.2 | 89 NM_173343.1 |

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| 119.1 | 111.3 | 106.3 | 111.1 NM_134470.2 |
| 84.9 | 84.7 | 84 | 89.3 NM_134470.2 |
| 144 | 124.6 | 127.9 | 117.9 NM_002182.2 |
| 93.9 | 81.9 | 90.5 | 96.5 NM_014271.2 |
| 94.6 | 90.9 | 81.4 | 92.3 NM_017416.1 |
| 102.9 | 90 | 89.6 | 87.1 NM_016232.4 |
| 98.7 | 93.4 | 98 | 91.1 NM_003856.2 |
| 98.8 | 87.2 | 91.8 | 93.8 NM_003856.2 |
| 104.8 | 98.2 | 91.7 | 101.6 NM_003854.2 |
| 92.5 | 91.8 | 83.3 | 79.7 NM_173843.1 |
| 419.2 | 157.8 | 138.9 | 140.3 NM_173842.1 |
| 836.6 | 274.2 | 252 | 215.4 NM_173842.1 |
| 91 | 83.8 | 88 | 93.1 NM_000586.2 |
| 90.9 | 86.1 | 83.2 | 90.5 NM_014432.2 |
| 90.4 | 89.3 | 92.4 | 90.7 NM_021803.1 |
| 121.6 | 96.6 | 96.9 | 89.7 NM_181078.1 |
| 119.8 | 112.3 | 100.8 | 110.8 NM_181078.1 |
| 86.5 | 87.4 | 80.8 | 100.3 NM_181079.1 |
| 69.8 | 80.2 | 70.6 | 77.5 NM_021798.2 |
| 93.7 | 81.4 | 81.9 | 96.8 NM_020525.4 |
| 97.7 | 89 | 84.8 | 88.6 NM_021258.2 |
| 104.8 | 98.2 | 83.7 | 85.1 NM_181309.1 |
| 86.9 | 76.9 | 79.1 | 82.5 NM_052962.2 |
| 117.2 | 115.8 | 109.7 | 105 NM_016584.2 |
| 91.3 | 87.2 | 85.4 | 94.2 NM_144701.2 |
| 80.4 | 75.2 | 66.7 | 72.8 NM_181339.1 |
| 90 | 100 | 79.2 | 100.5 NM_181339.1 |
| 85.4 | 92.1 | 80.3 | 86.5 NM_006850.2 |
| 90.6 | 91.2 | 76.8 | 94.8 NM_172314.1 |
| 89.6 | 86.4 | 81.3 | 78.9 NM_172314.1 |
| 89.1 | 95.3 | 86.9 | 90.9 NM_018402.1 |
| 74.4 | 81.6 | 83.5 | 81.6 NM_145659.3 |
| 789.8 | 601.9 | 342.4 | 474.6 NM_004843.2 |
| 87.1 | 96.7 | 85.5 | 92.9 NM_172138.1 |
| 84.5 | 84.5 | 86.2 | 83.7 NM_172139.2 |
| 88.5 | 84.5 | 85.5 | 86.2 NM_170743.2 |
| 85.1 | 81.4 | 86.9 | 83.9 NM_172140.1 |
| 102.2 | 87.8 | 90.6 | 77.1 NM_000417.1 |
| 151.3 | 141.9 | 119.9 | 102.4 NM_000878.2 |
| 88.5 | 82.4 | 81.7 | 86 NM_000206.1 |
| 88.1 | 83.6 | 76.2 | 87.2 NM_000588.3 |
| 85.3 | 80.3 | 78.8 | 74.5 NM_001014336.1 |
| 97.2 | 99.1 | 89.3 | 87.5 NM_139017.3 |
| 92.1 | 76.3 | 85.7 | 87 NM_001012633.1 |
| 95.4 | 98.1 | 93.4 | 96.1 NM_001012632.1 |
| 75.2 | 86.4 | 91.7 | 86 NM_033439.2 |
| 125.8 | 106.1 | 111.6 | 113.7 NM_002183.2 |
| 82.3 | 88.9 | 78.7 | 89.6 NM_172348.1 |
| 103.4 | 93 | 93.4 | 91.4 NM_000589.2 |
| 105.1 | 119.7 | 121.2 | 129.6 NM_152899.1 |

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| 100.6 | 82.2 | 83.4 | 94.1 NM_172374.1 |
| 97.9 | 100 | 90.4 | 99.6 NM_001008699.1 |
| 201.6 | 153.8 | 132.2 | 121 NM_000418.2 |
| 91.5 | 92.6 | 93.7 | 85.9 NM_000879.2 |
| 100.5 | 107.7 | 111 | 95.7 NM_175728.1 |
| 101.6 | 80.5 | 92.7 | 86.2 NM_175728.1 |
| 92.6 | 89.4 | 88.9 | 91.1 NM_000600.1 |
| 211 | 233.3 | 235.2 | 191.7 NM_000565.2 |
| 368.4 | 377.9 | 334.9 | 320.4 NM_181359.1 |
| 97.3 | 93.5 | 77 | 89.2 NM_175767.1 |
| 95.5 | 95 | 87.7 | 94.3 NM_002184.2 |
| 97.1 | 93.8 | 86.3 | 85 NM_000880.2 |
| 116 | 95.1 | 85.5 | 94 NM_002185.2 |
| 1010.8 | 1554.1 | 923.3 | 1183.7 NM_000584.2 |
| 96 | 83.8 | 77.7 | 80.4 NM_000634.2 |
| 237.4 | 249.6 | 259 | 191.5 NM_001557.2 |
| 93.9 | 93 | 92.8 | 89 NM_000590.1 |
| 90.8 | 85 | 73.9 | 80.8 NM_176786.1 |
| 88.6 | 90.6 | 89.8 | 96.7 NM_175924.2 |
| 5199 | 3501.3 | 2482.1 | 2484.3 NM_004515.2 |
| 753.4 | 620.3 | 566.2 | 530.6 NM_012218.2 |
| 108.3 | 116 | 110.1 | 83.1 NM_153464.1 |
| 911.5 | 731.6 | 675.7 | 508.1 NM_004516.2 |
| 81.5 | 74.2 | 83.9 | 86.7 NM_001014795.1 |
| 1628.1 | 1248.7 | 1286.7 | 780.3 NM_004517.2 |
| 145.2 | 118.8 | 106.4 | 117.4 NM_001014794.1 |
| 384.9 | 399.2 | 373.7 | 231.4 NM_030768.2 |
| 93.2 | 98 | 97.5 | 94.9 NM_176799.1 |
| 509.1 | 338.8 | 297.1 | 255.2 NM_006844.3 |
| 801.7 | 706.9 | 697 | 376.9 NM_006844.3 |
| 87.9 | 106.2 | 96.5 | 92 XR_000959.1 |
| 29032.4 | 36468.5 | 38096.5 | 33545.1 NR_002594.1 |
| 291.6 | 342.5 | 298.3 | 273.9 NM_032549.1 |
| 714.2 | 538.8 | 472 | 647.1 NM_006839.1 |
| 3852.1 | 2269.1 | 2048.3 | 1379.2 NM_018285.2 |
| 2427.3 | 1474.4 | 1382.6 | 853 NM_033416.1 |
| 96.3 | 93.5 | 91.9 | 87.8 NM_175882.1 |
| 545 | 415.5 | 286 | 329.1 NM_005536.2 |
| 1494.7 | 1659.5 | 1656.1 | 1375.2 NM_014214.1 |
| 119.6 | 105.3 | 93 | 108.5 NM_018439.1 |
| 343.5 | 234.8 | 195.8 | 184 NM_017813.2 |
| 1654.8 | 1431.5 | 1265.5 | 635.9 NM_000883.2 |
| 83.2 | 90.7 | 93.1 | 85.4 NM_183243.1 |
| 81.8 | 76.9 | 77.7 | 83.2 NM_000883.2 |
| 3128 | 1935.8 | 1868.4 | 1504.8 NM_000884.2 |
| 83.7 | 84.8 | 85.3 | 86.1 NM_001563.2 |
| 115.1 | 103.4 | 113.9 | 95.7 NM_016247.2 |
| 98.6 | 96.1 | 91.7 | 108 NM_032727.2 |
| 92 | 83.5 | 81.3 | 85 NM_176877.1 |
| 97.3 | 81.2 | 88.9 | 97.4 NM_170605.2 |

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| 89.2 | 86 | 82.9 | 85.5 NM_001007232.1 |
| 85.4 | 81.9 | 75.9 | 80.3 NM_213726.1 |
| 268.3 | 267 | 234.2 | 177.2 NM_001040694.1 |
| 101.1 | 91.3 | 95 | 106.1 NM_002164.3 |
| 93 | 83.4 | 80.5 | 84.6 NM_005537.3 |
| 297.4 | 257.8 | 214.6 | 206.6 NM_198219.1 |
| 92 | 86.4 | 88.9 | 96.2 NM_198219.1 |
| 86.6 | 77.5 | 80.4 | 80.5 NM_198217.1 |
| 368 | 276.1 | 237 | 242.6 NM_001564.2 |
| 230.5 | 185.4 | 182.7 | 165.3 NM_198267.1 |
| 82.7 | 96.7 | 88.7 | 90.6 NM_198267.1 |
| 794.1 | 948.9 | 770.4 | 710.1 NM_019071.2 |
| 104 | 126.2 | 111.8 | 103.4 NM_198287.1 |
| 111.6 | 89.9 | 101.2 | 92.9 NM_032329.4 |
| 89.2 | 88.4 | 87.7 | 78.9 NM_032329.4 |
| 93.9 | 91.2 | 96 | 85.3 NR_002226.1 |
| 86 | 88.2 | 82.1 | 82.1 NM_002191.2 |
| 86.3 | 77.2 | 77.4 | 84.6 NM_002192.2 |
| 95.9 | 94.8 | 95.4 | 98.4 NM_002193.1 |
| 84.6 | 77.2 | 82 | 88.4 NM_005538.2 |
| 101.7 | 100 | 102.4 | 95 NM_031479.3 |
| 95.3 | 86.2 | 78.6 | 88.2 NM_006774.4 |
| 93.6 | 92.6 | 84.5 | 76.5 NM_017553.1 |
| 230.2 | 253.9 | 206.9 | 172.6 NM_032196.3 |
| 684.2 | 556.5 | 587.3 | 317.5 NM_002194.2 |
| 80.5 | 72.6 | 69 | 79.1 NM_004027.1 |
| 112.4 | 119.5 | 122 | 108.6 NM_001566.1 |
| 86.8 | 81.4 | 82.4 | 78 NM_001566.1 |
| 299.3 | 274.3 | 229.8 | 245.2 NM_003866.1 |
| 241.7 | 186.6 | 187.9 | 218 XM_936595.1 |
| 245.7 | 208.2 | 213.9 | 194 NM_005540.1 |
| 445 | 354.9 | 389.9 | 231.9 NM_001017915.1 |
| 361.8 | 326.5 | 294.4 | 302.9 NM_019892.3 |
| 74.9 | 78.9 | 74.8 | 70.7 NM_014937.2 |
| 99.5 | 90 | 100.1 | 93.1 NM_198331.1 |
| 166.8 | 167.7 | 133.8 | 121.3 NM_198330.1 |
| 1866.9 | 1827.3 | 2037.4 | 838.1 NM_001567.2 |
| 91.2 | 88 | 85.4 | 90.2 NM_000207.1 |
| 97.4 | 77.4 | 85 | 91.5 NM_001042536.1 |
| 250.3 | 246.7 | 215.2 | 223.3 NM_198336.1 |
| 338.9 | 350.9 | 319 | 298.7 NM_016133.2 |
| 87.9 | 81.2 | 85.9 | 96.5 NM_001042377.1 |
| 75 | 78.9 | 73 | 77.4 NM_001042377.1 |
| 80.6 | 87.7 | 75.5 | 88.1 NM_005543.2 |
| 84.3 | 93.5 | 88.7 | 83.5 NM_002195.1 |
| 93.4 | 91.8 | 83.6 | 82.3 NM_005478.3 |
| 82.5 | 84.7 | 85.9 | 85.8 NM_007179.2 |
| 94.4 | 101.2 | 94 | 91.5 NM_002196.2 |
| 87.3 | 83.9 | 84.3 | 85.6 NM_032594.2 |
| 96.7 | 103.3 | 87.1 | 80.8 NM_000208.1 |

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| 84.1 | 85.2 | 88.1 | 87.7 NM_014215.1 |
| 196.4 | 205 | 191.4 | 158.9 XM_931339.1 |
| 316.1 | 322.5 | 280 | 255.3 NM_033547.3 |
| 404 | 400.9 | 485.6 | 186.1 NM_001080453.1 |
| 102.3 | 103.8 | 89.5 | 92.1 NM_001039938.1 |
| 112.7 | 92.6 | 94.1 | 88.3 NM_015693.2 |
| 108.5 | 100.6 | 102.2 | 94.8 NM_183245.1 |
| 414.5 | 340.5 | 287.3 | 241.5 NM_183245.1 |
| 108.8 | 114.9 | 96.8 | 92.4 NM_014425.2 |
| 92.6 | 89.3 | 86.5 | 92.8 NM_000209.1 |
| 84.3 | 87.5 | 78 | 89.9 NM_152230.2 |
| 740.2 | 689.9 | 557 | 400 NM_016338.3 |
| 146.3 | 183.6 | 158.5 | 168.5 NM_014652.2 |
| 205.3 | 191.6 | 161.9 | 144.6 NM_024658.3 |
| 258.2 | 299.5 | 206.2 | 238.3 NM_006391.1 |
| 119.9 | 159.1 | 133.8 | 116.3 NM_006390.2 |
| 336.7 | 352.8 | 311.3 | 340.5 NM_018085.3 |
| 110 | 104.7 | 107.5 | 112.4 NM_005897.1 |
| 109.8 | 100.3 | 96.7 | 97.1 NM_022755.4 |
| 84.6 | 85.3 | 81.5 | 88.6 NM_024726.3 |
| 94.6 | 87.3 | 91.1 | 87.7 NM_001023570.1 |
| 481.5 | 391.3 | 370.6 | 328.4 NM_001023571.1 |
| 102.3 | 120.1 | 106.5 | 101.1 NM_018134.1 |
| 108.7 | 117.4 | 117.7 | 93.1 NM_138451.1 |
| 109.9 | 105.5 | 98.8 | 102.1 NM_152558.2 |
| 93.1 | 77.8 | 79.4 | 86.6 NM_152397.1 |
| 87.7 | 99.1 | 88.8 | 90.6 NM_203424.1 |
| 96.1 | 90 | 99.9 | 97.8 NM_032263.2 |
| 77.7 | 81.1 | 80.9 | 79.4 NM_022784.1 |
| 102.3 | 91.6 | 94.8 | 93.2 NM_001031715.1 |
| 190.2 | 140.3 | 132.3 | 121.9 NM_153208.1 |
| 418.8 | 535.4 | 279.5 | 518.1 NM_003870.3 |
| 94.8 | 111.1 | 121.1 | 118.7 NM_006633.1 |
| 119.5 | 127 | 115.6 | 112.2 NM_178229.3 |
| 146.5 | 266.8 | 225.8 | 173.9 NM_014869.3 |
| 109.4 | 107.3 | 107 | 111.6 NM_015075.1 |
| 94.4 | 89.6 | 82.9 | 79.8 NM_015232.1 |
| 977.9 | 863.3 | 748.9 | 668.9 NM_018442.2 |
| 103.7 | 121.3 | 113.1 | 122.3 NM_018442.2 |
| 108.3 | 105.4 | 86.4 | 104.7 NM_001017977.1 |
| 1250.9 | 1012.4 | 1019.5 | 959 NM_001025243.1 |
| 166.2 | 139.2 | 123.6 | 130.1 NM_001010844.1 |
| 156.5 | 140 | 143.5 | 122.9 NM_001570.3 |
| 963 | 929.2 | 959.7 | 651.8 NM_007199.1 |
| 214.1 | 187.2 | 173 | 144.7 NM_016123.1 |
| 583.3 | 629.4 | 558.1 | 470.1 NM_004136.1 |
| 417.5 | 322 | 392.9 | 183.5 NM_002198.1 |
| 88.3 | 91.1 | 80.8 | 88.5 NM_002199.2 |
| 142.6 | 123.2 | 121.3 | 111.8 NM_015649.1 |
| 1018.5 | 1187.7 | 1039.1 | 791.6 NM_182972.1 |

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| 869.5 | 955.3 | 931.4 | 686.4 NM_182972.1 |
| 315.8 | 261.9 | 275.3 | 262.4 NM_001571.2 |
| 85.8 | 87.9 | 73.3 | 82.5 NM_002460.1 |
| 602.6 | 561.4 | 599.6 | 290 NM_002200.3 |
| 87.4 | 86.7 | 72.6 | 82.9 NM_006147.2 |
| 112.4 | 99.5 | 86.4 | 112.3 NM_004029.2 |
| 94.4 | 91.6 | 92.1 | 98.3 NM_004031.1 |
| 234.4 | 204.9 | 201.5 | 162 NM_004030.1 |
| 9491 | 5833.3 | 5491.2 | 3320 NM_002163.2 |
| 91.8 | 81.2 | 78.8 | 87.2 NM_019612.2 |
| 81.3 | 89.3 | 80.1 | 85.2 NM_001007561.1 |
| 96.7 | 100.8 | 89.1 | 101.8 NM_005544.1 |
| 436.6 | 476.8 | 388.9 | 429.1 NM_003749.2 |
| 103.1 | 100.7 | 103.4 | 91.6 NM_003604.1 |
| 112.2 | 115.9 | 104.8 | 98.1 NM_024337.3 |
| 86.3 | 88.6 | 77.5 | 82 NM_033267.2 |
| 8274.3 | 5482.7 | 5531.3 | 2869.4 NM_024336.1 |
| 97.6 | 115.2 | 92.6 | 93 NM_016358.1 |
| 213.1 | 131.1 | 115.8 | 123.9 NM_005853.4 |
| 98.9 | 97.2 | 86.8 | 89.4 NM_024335.2 |
| 80.4 | 74 | 77.7 | 81.4 NM_173576.1 |
| 169.2 | 166.5 | 124.2 | 158.9 NM_030940.3 |
| 280.7 | 191.4 | 211.5 | 180.7 NM_194279.1 |
| 1161.9 | 1042.9 | 1072.9 | 749.5 NM_213595.1 |
| 220.8 | 153.3 | 195.6 | 138.3 NM_005101.1 |
| 165.5 | 132.4 | 143.6 | 117.9 NM_002201.4 |
| 500.4 | 344.7 | 276.1 | 168.5 NM_022767.2 |
| 1019.8 | 629.5 | 566.3 | 451.3 NM_030980.1 |
| 598.4 | 351.9 | 319.3 | 322.4 NM_006084.3 |
| 113.2 | 105.9 | 108.2 | 93.7 NM_145805.1 |
| 87.5 | 84.4 | 77.3 | 72.3 NM_005545.3 |
| 93 | 87.1 | 88 | 86.7 NM_005545.3 |
| 93 | 91.8 | 98.3 | 88.5 NM_201526.1 |
| 85.1 | 84.2 | 76.1 | 87.8 NM_020851.1 |
| 314.2 | 285.9 | 212.8 | 188.9 NM_016048.1 |
| 363.9 | 247.7 | 208.5 | 243.7 NM_024710.1 |
| 115.6 | 109.9 | 115.8 | 107.9 NM_016368.3 |
| 267.4 | 291 | 258.2 | 283.5 NM_031483.3 |
| 100.1 | 83 | 80.8 | 88.1 NM_030790.2 |
| 84.2 | 77.3 | 82.6 | 83.2 NM_181501.1 |
| 97.1 | 114.5 | 113.2 | 98.7 NM_003637.3 |
| 101.4 | 97.8 | 100.6 | 96.7 NM_012211.3 |
| 102.2 | 102.6 | 86.8 | 88.4 NM_012211.3 |
| 111.9 | 90.1 | 93.3 | 88.5 NM_002203.2 |
| 84.9 | 88.2 | 74.1 | 95.9 NM_000419.2 |
| 96.1 | 94.3 | 95.4 | 98.1 NM_002204.1 |
| 203.7 | 193.2 | 195.9 | 166 NM_002204.1 |
| 242 | 237.2 | 209 | 271.7 NM_000885.4 |
| 473.6 | 386.6 | 385.3 | 183.3 NM_002205.2 |
| 90.9 | 94.7 | 88.8 | 94.4 NM_000210.2 |

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| 92.2 | 82.3 | 87.7 | 83.8 NM_000210.2 |
| 101.9 | 101.2 | 96.6 | 83.5 NM_002206.1 |
| 82.1 | 93 | 77.2 | 74.7 NM_003638.1 |
| 92.5 | 85.4 | 81.1 | 84 NM_005353.2 |
| 439 | 294 | 346.2 | 308.4 NM_002208.3 |
| 643.5 | 307.5 | 290.4 | 237.1 NM_002209.1 |
| 209.7 | 402.8 | 356.3 | 344.6 NM_000632.2 |
| 224.7 | 227.3 | 194.1 | 257.8 NM_002210.2 |
| 262.9 | 421.6 | 385.1 | 337.2 NM_000887.3 |
| 98.8 | 89.1 | 93.1 | 111.9 NM_000887.3 |
| 477.6 | 427.5 | 319.2 | 282.8 NM_133376.1 |
| 1614.8 | 1382.5 | 1197.7 | 1168.1 NM_002211.2 |
| 1066.9 | 977.7 | 642.1 | 667.9 NM_033669.1 |
| 85.3 | 92.6 | 89.4 | 86 NM_033666.1 |
| 90.7 | 92.2 | 86.1 | 89.4 NM_133376.1 |
| 95.5 | 97.3 | 86.1 | 79.9 NM_033668.1 |
| 99.7 | 104.1 | 97 | 86.8 NM_022334.2 |
| 820.4 | 573.1 | 568.7 | 504.3 NM_004763.2 |
| 100.2 | 108.9 | 95.3 | 94.6 NM_012278.1 |
| 98.2 | 96.5 | 80.9 | 91.8 NM_014446.1 |
| 92.6 | 88.2 | 93.2 | 93.2 NM_170678.1 |
| 16594.4 | 20813.1 | 21062.7 | 12590.6 NM_000211.2 |
| 98.4 | 92.5 | 87.5 | 101.4 NM_000212.2 |
| 293.2 | 199.8 | 182.4 | 254.4 NM_014288.3 |
| 100 | 91.8 | 88.2 | 96.6 NM_001005731.1 |
| 85.6 | 81.2 | 74.3 | 76.5 NM_001005619.1 |
| 90.2 | 84.5 | 89.2 | 82.5 NM_001005619.1 |
| 90 | 86.5 | 84.1 | 81.8 NM_000213.3 |
| 1560.2 | 1030.3 | 1018.8 | 676.8 NM_181466.1 |
| 89 | 82 | 76.9 | 81.3 NM_181466.1 |
| 2882.4 | 1757.6 | 1600 | 1035.3 NM_181469.1 |
| 211.8 | 128.5 | 128 | 110.5 NM_002213.3 |
| 529.8 | 282.5 | 263.8 | 193.9 XM_944693.1 |
| 85.9 | 78.7 | 82.8 | 85.1 NM_000888.3 |
| 453.5 | 648.6 | 482.2 | 434.7 NM_000889.1 |
| 96.4 | 99.3 | 88.7 | 93.8 NM_002214.1 |
| 83.8 | 97.4 | 94.6 | 88.2 NM_004791.1 |
| 89.7 | 92.6 | 93.4 | 92.6 NM_002215.1 |
| 85.5 | 85.6 | 76.6 | 78.5 NM_002216.2 |
| 89 | 83.6 | 82.7 | 78.8 NM_002217.2 |
| 90.3 | 105.1 | 88.9 | 103.3 NM_002218.3 |
| 92.6 | 90.2 | 80 | 88.9 NM_001001851.1 |
| 13716.5 | 17890.7 | 22264.2 | 17755.7 NM_001001851.1 |
| 76.3 | 85.1 | 74.5 | 83.3 NM_030569.3 |
| 102.5 | 96.3 | 89.4 | 94.4 NM_032817.2 |
| 91.6 | 81.1 | 95.4 | 87 NM_198510.1 |
| 94.3 | 104.7 | 101.8 | 103.8 NM_005546.3 |
| 112.1 | 114.1 | 110.4 | 108.8 NM_017625.2 |
| 89 | 89.8 | 85.2 | 88.9 NM_080878.2 |
| 92.1 | 81.5 | 79.4 | 94.2 NM_004867.3 |

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| 85.1 | 88.3 | 89.3 | 86.8 NM_021999.2 |
| 1406.7 | 2093.9 | 1692.6 | 1552.6 NM_030926.4 |
| 1957.1 | 3172.8 | 2908.9 | 2467.9 NM_001012516.1 |
| 228.7 | 240.2 | 220.1 | 150.9 NM_033453.2 |
| 363.3 | 304.2 | 312.8 | 168.7 NM_181493.1 |
| 160.5 | 187.4 | 158.1 | 161.6 NM_014216.3 |
| 302.1 | 406.8 | 414 | 240.1 NM_002220.1 |
| 242.6 | 189.9 | 185.9 | 172.8 NM_002221.2 |
| 108.2 | 98.9 | 98.5 | 96.3 NM_025194.2 |
| 781 | 997.3 | 754.1 | 752.9 NM_002222.1 |
| 118.8 | 136.7 | 144.8 | 131.5 NM_002223.1 |
| 815.7 | 822.6 | 1000.3 | 425.3 NM_002224.1 |
| 335.8 | 201.8 | 192.7 | 134.9 NM_180989.3 |
| 96.7 | 97.4 | 87.5 | 94.2 NM_003024.2 |
| 78.4 | 79.1 | 84.2 | 92.7 NM_001001132.1 |
| 245.9 | 252.5 | 257.4 | 172.3 NM_001001132.1 |
| 95.1 | 91.9 | 83.9 | 86.6 NM_147152.1 |
| 93.8 | 95.8 | 86.2 | 81.7 NM_006277.1 |
| 268.2 | 226.8 | 227.4 | 198.4 NM_002225.2 |
| 90.2 | 86.2 | 76.7 | 90.2 NM_005547.2 |
| 292.6 | 373 | 273.3 | 331.7 NM_006469.4 |
| 239.6 | 293.1 | 261.8 | 281.2 NM_006469.4 |
| 111.3 | 99.7 | 98.6 | 102.9 NM_016389.2 |
| 404.9 | 310.4 | 321.3 | 174.3 NM_017592.1 |
| 104.2 | 92.2 | 83.7 | 91.2 NM_182575.1 |
| 102.8 | 100.2 | 115.1 | 104.5 NM_000214.1 |
| 327.5 | 255.5 | 246.9 | 171.4 NM_002226.3 |
| 93.3 | 81.2 | 87.7 | 81.8 NM_002226.3 |
| 166.7 | 161.5 | 133 | 130 NM_145159.1 |
| 276.8 | 270.5 | 196.9 | 202.9 NM_002227.1 |
| 221.1 | 207.8 | 174.9 | 225.7 NM_004972.2 |
| 85.6 | 83.9 | 91.3 | 87.1 NM_000215.2 |
| 86.1 | 85 | 85.5 | 78.8 NM_144720.2 |
| 88.4 | 92.3 | 84 | 95.1 NM_014790.3 |
| 85.9 | 92.2 | 97.1 | 89 NM_021219.2 |
| 112.2 | 105.6 | 96.9 | 104.3 NM_032801.3 |
| 81.3 | 74.2 | 74.2 | 74.4 NM_005056.2 |
| 498.8 | 634.3 | 516.7 | 477.7 NM_006618.3 |
| 499.9 | 557.2 | 476.6 | 388.9 NM_004973.2 |
| 121.9 | 103.4 | 96.1 | 98.3 NM_175061.2 |
| 102 | 104.6 | 92.4 | 92.8 NM_130469.2 |
| 146.2 | 138.8 | 131.5 | 113.3 NM_033626.2 |
| 121.6 | 138.6 | 138.1 | 150.2 NM_018433.3 |
| 294.2 | 439.8 | 359.3 | 274.3 NM_016604.3 |
| 1056 | 1034.3 | 881.3 | 1087.3 NM_004241.2 |
| 677.6 | 770.5 | 568.4 | 737 NM_032776.1 |
| 205.1 | 213.6 | 193.5 | 174 NM_014663.1 |
| 84 | 88.3 | 79.7 | 85 NM_015015.1 |
| 105.6 | 116.5 | 122.5 | 105.3 NM_015061.1 |
| 86.7 | 80.9 | 81.1 | 80.5 NM_018039.2 |

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| 82.5 | 82.4 | 85.1 | 97.1 NM_001080424.1 |
| 217.6 | 163.4 | 139.1 | 132 NM_023007.1 |
| 103.8 | 95.6 | 85 | 89.1 NM_024773.1 |
| 95.2 | 99.4 | 97.5 | 99.4 NM_152405.1 |
| 173.6 | 216.1 | 169.5 | 149.3 NM_014876.3 |
| 171.1 | 142.4 | 121.9 | 147.6 NM_138334.1 |
| 111.8 | 96.5 | 94.6 | 110.1 NM_024116.2 |
| 141.4 | 123.7 | 126.7 | 131.8 NM_024116.2 |
| 153 | 113.2 | 108.5 | 111 NM_020647.2 |
| 104.5 | 91.6 | 105 | 87.6 NM_175913.3 |
| 93.9 | 106.7 | 88.9 | 85.3 NM_175913.3 |
| 101.3 | 95.7 | 85.9 | 90 NM_020433.4 |
| 85.6 | 99.9 | 93.5 | 107.6 NM_020655.2 |
| 96.9 | 95.4 | 82.9 | 89.9 NM_032452.1 |
| 137.6 | 124.4 | 107.9 | 116.4 NM_003724.1 |
| 119.9 | 120.3 | 114.8 | 129.3 NM_003772.2 |
| 99.2 | 100.9 | 87.2 | 93.9 NM_144616.2 |
| 14432.3 | 9199 | 8905.7 | 6594.5 NM_006694.2 |
| 2128.4 | 1449.8 | 1299.3 | 814.4 NM_006303.2 |
| 101.4 | 95.2 | 88 | 83.4 NM_032876.4 |
| 86.3 | 87.4 | 76.3 | 83.4 NM_198086.1 |
| 95.5 | 89.2 | 85 | 87.7 NM_032876.4 |
| 265.2 | 484.1 | 403.6 | 290.5 NM_002228.3 |
| 154.9 | 135.4 | 122.7 | 128.2 NM_002229.2 |
| 6240.4 | 3681.3 | 2974.3 | 2708.5 NM_005354.2 |
| 84.3 | 97.9 | 82.2 | 79.5 NM_021991.1 |
| 90.5 | 100.6 | 92.9 | 97 NM_002230.1 |
| 117.5 | 165.4 | 181.9 | 177.2 NM_021991.1 |
| 88.6 | 92.2 | 90.7 | 85.4 NM_173352.1 |
| 91.3 | 89.1 | 91.7 | 98.1 NM_004693.1 |
| 93.6 | 104.9 | 91.5 | 89.6 NM_080747.1 |
| 96.4 | 89.4 | 75.8 | 85.4 NM_175068.2 |
| 83.4 | 82.5 | 81.2 | 76.1 NM_175053.2 |
| 90 | 80.3 | 71.4 | 85.3 NM_152349.1 |
| 89 | 89.4 | 88 | 86.2 NM_181337.2 |
| 126.6 | 179.5 | 154.4 | 150.7 NM_000216.1 |
| 22036.3 | 14386.3 | 14584.4 | 9338.8 NM_006082.2 |
| 87.1 | 94.4 | 77.9 | 85.4 NM_001024660.1 |
| 94.8 | 96.1 | 91.6 | 86.2 NM_003947.3 |
| 83.6 | 81.8 | 80.1 | 92.9 NM_007064.2 |
| 91.1 | 82.9 | 82 | 88.3 NM_152366.3 |
| 79.3 | 80.7 | 75.6 | 81 NM_001007255.1 |
| 595.3 | 614.7 | 482.3 | 448.8 NM_005548.1 |
| 1787.9 | 1383.8 | 1127.2 | 1069.6 NM_007044.2 |
| 97.3 | 89.7 | 92 | 89.8 NM_001014380.1 |
| 152.2 | 148.7 | 131.6 | 124.2 NM_032116.3 |
| 100.9 | 91.6 | 103.5 | 89.7 NM_032116.3 |
| 136.3 | 135.9 | 119 | 109.9 XM_938693.1 |
| 89.8 | 82.2 | 83 | 90.9 NM_031303.1 |
| 415.7 | 307.6 | 278.9 | 178.1 NM_005886.1 |

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| 89.6 | 91.2 | 87.3 | 92.4 NM_030929.3 |
| 87.6 | 83.5 | 87.6 | 86.4 NM_001003760.2 |
| 85.8 | 89.7 | 82.5 | 86.8 NM_006063.2 |
| 2275.6 | 1463 | 1554.8 | 853.9 NM_014867.1 |
| 575.6 | 708.4 | 625.5 | 436.3 NM_015483.1 |
| 87.7 | 89.9 | 89.9 | 86.8 NM_152433.2 |
| 166.5 | 163.4 | 158.1 | 138.5 NM_198439.1 |
| 90 | 83.2 | 86.1 | 82.3 NM_016506.3 |
| 125.7 | 102.9 | 100.3 | 104.4 NM_018095.3 |
| 90.6 | 85.3 | 83.3 | 81.5 NM_152393.2 |
| 81.2 | 88.6 | 78.9 | 84 NM_152903.4 |
| 143.7 | 182.3 | 174 | 159.6 NM_032138.3 |
| 181 | 131.9 | 141 | 121 NM_032505.1 |
| 95.4 | 88.5 | 96 | 98.8 NM_020122.3 |
| 97.2 | 101.3 | 90.6 | 94.2 NM_020122.3 |
| 173.6 | 167.4 | 136.9 | 131.9 XM_942130.1 |
| 87.3 | 91.6 | 85.9 | 87.2 NM_000217.1 |
| 90.1 | 77.6 | 76.1 | 91 NM_005549.2 |
| 87.6 | 76.6 | 76.7 | 80.3 NM_004974.2 |
| 90.9 | 79.8 | 84.9 | 82.8 NM_002232.2 |
| 85 | 74.2 | 84.5 | 82.4 NM_002233.2 |
| 76.2 | 76.4 | 74.8 | 81.7 NM_002234.2 |
| 87.4 | 83.1 | 84.4 | 81.7 NM_002235.2 |
| 87.9 | 85.2 | 78.9 | 80.4 NM_031886.2 |
| 86.4 | 91.7 | 92.3 | 99.6 NM_172159.2 |
| 88.4 | 85.9 | 82.1 | 82.4 NM_003471.2 |
| 91.5 | 101.4 | 94.7 | 85.6 NM_172159.2 |
| 87.9 | 96.4 | 94.5 | 92.6 NM_172160.1 |
| 124.4 | 135.1 | 130.5 | 120.6 NM_003636.2 |
| 107.4 | 117.3 | 103.2 | 115.9 NM_003636.2 |
| 97 | 104.7 | 91.6 | 88.6 NM_004732.2 |
| 89.4 | 95 | 77 | 93.3 NM_004975.2 |
| 85 | 86.8 | 82.9 | 91.7 NM_004770.2 |
| 84.4 | 72.4 | 80.6 | 81.3 NM_004976.2 |
| 85.3 | 81.8 | 79.1 | 86.4 NM_139137.2 |
| 85.2 | 82.9 | 87.1 | 79.1 NM_139137.2 |
| 82.2 | 81.5 | 90 | 90.1 NM_004977.2 |
| 97.1 | 91.9 | 92.1 | 87.4 NM_153763.1 |
| 95.6 | 85.5 | 81.1 | 92.4 NM_004978.3 |
| 95 | 83.7 | 84.7 | 91.5 NM_004978.3 |
| 94.5 | 91.4 | 86.1 | 85 NM_004978.2 |
| 93.4 | 125.4 | 122.4 | 103.6 NM_004979.4 |
| 95.3 | 86.5 | 89.9 | 87.1 NM_012281.2 |
| 82.1 | 85.2 | 84.5 | 96.9 NM_004980.3 |
| 108.8 | 104.3 | 112.7 | 100.1 NM_172198.1 |
| 97.3 | 90.3 | 92 | 86.8 NM_172198.1 |
| 87.9 | 81.2 | 73.8 | 77.2 NM_000219.2 |
| 97.8 | 97.7 | 100.7 | 91.7 NM_012282.2 |
| 79.5 | 82.1 | 80.1 | 84.8 NM_172201.1 |
| 87 | 95.9 | 99.1 | 93.4 NM_005472.3 |

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| 82.9 | 79.6 | 80.1 | 82 NM_080671.1 |
| 97.4 | 94 | 98.8 | 86.5 NM_002236.4 |
| 293.5 | 189.8 | 192 | 139.5 NM_002237.2 |
| 93.2 | 95.7 | 84.8 | 86.6 NM_172318.1 |
| 101.3 | 94.6 | 99.8 | 95.9 NM_172318.1 |
| 105.1 | 109 | 103.2 | 114 NM_012283.1 |
| 90.5 | 75 | 75 | 84.6 NM_133329.4 |
| 97.4 | 101.3 | 94.9 | 102.6 NM_172344.1 |
| 76.6 | 70.6 | 73.7 | 76.5 NM_133490.2 |
| 71.9 | 77.1 | 72.6 | 78.7 NM_172347.1 |
| 89.3 | 89.2 | 78.4 | 83.9 NM_172362.1 |
| 90.3 | 92.8 | 80.5 | 93.6 NM_002238.2 |
| 91.5 | 102.5 | 97.4 | 91.2 NM_172056.1 |
| 87.4 | 79.4 | 94 | 86.3 NM_172057.1 |
| 110.5 | 120.7 | 113.5 | 108.7 NM_172056.1 |
| 89.1 | 92.8 | 89.8 | 90.1 NM_000238.2 |
| 98.4 | 98.8 | 87.1 | 104.7 NM_012284.1 |
| 131.5 | 110.3 | 110.3 | 116 NM_012285.1 |
| 94.3 | 86.2 | 85.8 | 87.3 NM_172376.1 |
| 87.2 | 87.5 | 75.9 | 92.4 NM_172375.1 |
| 88 | 87.4 | 81.4 | 91.3 NM_173092.1 |
| 2648.3 | 4516.1 | 5171 | 3333 NM_030779.2 |
| 80.3 | 81.6 | 85.3 | 76.6 NM_173162.1 |
| 91.7 | 83.9 | 85.1 | 88.7 NM_173162.1 |
| 81.3 | 83 | 71.1 | 82 NM_033272.2 |
| 111.6 | 99.8 | 106.8 | 104.2 NM_144633.2 |
| 88.6 | 92.3 | 82.6 | 94.5 NM_001034838.1 |
| 94.8 | 85 | 81.9 | 93.6 NM_014592.2 |
| 86.5 | 81.4 | 81.6 | 83.9 NM_014592.2 |
| 91.3 | 86.8 | 83 | 81.2 NM_014591.4 |
| 89.3 | 91.6 | 81.4 | 75.6 NM_173197.2 |
| 90.7 | 90.4 | 89.4 | 95.9 NM_001034914.1 |
| 191.1 | 146.6 | 143 | 123.3 NM_001034914.1 |
| 93 | 89 | 89.2 | 90.9 NM_147183.2 |
| 101.7 | 89.5 | 87.3 | 96.2 NM_147182.2 |
| 85.2 | 79.1 | 80 | 84.9 NM_001035003.1 |
| 78.9 | 80.5 | 85.3 | 82.3 NM_025221.4 |
| 83.8 | 85.7 | 85.1 | 88.3 NM_025221.4 |
| 84.5 | 88.6 | 81.7 | 82.6 NM_001035004.1 |
| 86.7 | 89.3 | 83.8 | 89.1 NM_000220.2 |
| 97.7 | 90.7 | 92.9 | 99.9 NM_000220.2 |
| 103.9 | 91.7 | 92.3 | 99.1 NM_153766.1 |
| 85.8 | 84.7 | 80.3 | 78.5 NM_002241.2 |
| 93.4 | 83.3 | 76.3 | 83 NM_000525.3 |
| 73.4 | 72.7 | 74.6 | 69.7 NM_021012.3 |
| 99.1 | 85.4 | 89.6 | 97.4 NM_002242.2 |
| 107.8 | 95.6 | 107 | 89.7 NM_170720.1 |
| 91.8 | 92.3 | 92.1 | 91 NM_170720.1 |
| 101.3 | 94.1 | 109.7 | 100.8 NM_013348.2 |
| 93.7 | 91.8 | 94.7 | 85.5 NM_002243.3 |

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| 94 | 95.7 | 89.9 | 88.2 NM_170737.1 |
| 92.2 | 101.9 | 93.5 | 94.1 NM_170736.1 |
| 102.1 | 101.9 | 95.4 | 89.7 NM_018658.1 |
| 105.6 | 146.2 | 117.4 | 144.8 NM_000891.2 |
| 95.3 | 86.4 | 88.2 | 94.4 NM_002239.2 |
| 83.9 | 89.5 | 83.4 | 73 NM_152868.1 |
| 91.7 | 74.2 | 79.9 | 84.7 NM_152868.1 |
| 97.4 | 97.5 | 86.5 | 95 NM_004981.1 |
| 106 | 95.5 | 89.4 | 90.9 NM_000890.3 |
| 92.5 | 80.5 | 83.7 | 93.1 NM_002240.2 |
| 102.6 | 91.5 | 89.4 | 92.1 NM_004982.2 |
| 93.4 | 83.5 | 89.5 | 87.7 NM_004983.2 |
| 100.6 | 85.5 | 95 | 96 NM_002245.2 |
| 84.6 | 96.4 | 92.7 | 83.7 NM_021161.3 |
| 117.8 | 104.9 | 92.7 | 93.9 NM_138317.1 |
| 91.3 | 85.6 | 84.8 | 88.2 NM_021161.3 |
| 95.2 | 84.3 | 82.7 | 92.4 NM_138318.1 |
| 212 | 151.8 | 157 | 110.3 NM_022055.1 |
| 133.6 | 101.3 | 87.3 | 91.9 NM_022054.2 |
| 85.7 | 78.7 | 80.6 | 86.7 NM_022358.2 |
| 104 | 97.9 | 93 | 89.7 NM_032115.2 |
| 91.8 | 92.8 | 92 | 97.9 NM_031460.2 |
| 102.4 | 98.6 | 99.9 | 95.8 NM_181840.1 |
| 100.7 | 86.8 | 87 | 85.4 NM_001017425.2 |
| 93.6 | 96.1 | 86.7 | 97.7 NM_001017425.2 |
| 75.4 | 86.6 | 76.4 | 83.8 NM_001017424.1 |
| 87.5 | 87.1 | 78.9 | 92.3 NM_001017424.1 |
| 99.5 | 95.4 | 95.9 | 95.5 NM_002246.1 |
| 97.8 | 95 | 95.3 | 94.6 NM_033310.1 |
| 90.8 | 92.1 | 88.6 | 88.8 NM_033310.1 |
| 113.4 | 98.7 | 90.9 | 97.4 NM_003740.2 |
| 110.4 | 122.2 | 122.2 | 124.4 NM_004823.1 |
| 105.5 | 113.1 | 110.8 | 116.1 NM_033455.1 |
| 89.7 | 82.1 | 82.4 | 87.3 NM_033347.1 |
| 83.2 | 98.7 | 85.6 | 91.7 NM_016601.2 |
| 84.9 | 84.5 | 80.3 | 84 NM_001014797.1 |
| 88.2 | 96.7 | 84 | 94.2 NM_002247.2 |
| 84.2 | 84 | 80.5 | 89 NM_001014797.1 |
| 493.1 | 468.9 | 502.5 | 312.2 NM_004137.2 |
| 93.9 | 91.6 | 90.8 | 86.3 NM_005832.3 |
| 82.4 | 87.6 | 86.8 | 85.4 NM_181361.1 |
| 89.7 | 90.4 | 85.5 | 81 NM_005832.3 |
| 84.7 | 87.7 | 80.9 | 86 NM_171830.1 |
| 90.4 | 77.8 | 87 | 91.5 NM_171829.1 |
| 230.8 | 297.5 | 301.5 | 265.7 NM_171828.1 |
| 94.3 | 86.5 | 87 | 76.4 NM_014505.4 |
| 94.7 | 103.6 | 93.2 | 90.8 NM_002248.3 |
| 210.7 | 181 | 196.4 | 162 NM_021614.2 |
| 1029.9 | 921.3 | 1097.5 | 719.8 NM_170775.1 |
| 94.6 | 94.1 | 78.2 | 81.2 NM_170782.1 |

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| 106 | 102.4 | 89.7 | 103.4 NM_002249.3 |
| 183 | 173.3 | 172.5 | 159.7 NM_002250.2 |
| 89.9 | 87.1 | 89.2 | 75 NM_000218.2 |
| 163.7 | 130.5 | 135.1 | 122.5 NM_000218.2 |
| 93.4 | 91.9 | 91.1 | 83.7 NM_181798.1 |
| 82.4 | 80.8 | 75.5 | 85.3 NM_018722.1 |
| 89.6 | 89.8 | 82.7 | 91.2 NM_172109.1 |
| 111.6 | 98.7 | 89.6 | 86.3 NM_172107.1 |
| 108.5 | 98.2 | 94.4 | 93.7 NM_172108.2 |
| 116 | 117.1 | 117.2 | 101.5 NM_004519.2 |
| 100.6 | 90.1 | 81.7 | 93.9 NM_004700.2 |
| 90.2 | 78.3 | 78.2 | 76.2 NM_004700.2 |
| 83.5 | 85.5 | 79.2 | 84.8 NM_172163.1 |
| 96.6 | 89.2 | 73.3 | 85.7 NM_019842.2 |
| 102.3 | 96.8 | 97.4 | 107.1 NM_173605.1 |
| 97.6 | 104.8 | 104.2 | 111 NM_199464.1 |
| 111.8 | 94.9 | 103.3 | 92.2 NM_002251.3 |
| 83 | 92.9 | 88.7 | 86.8 NM_020697.2 |
| 89.5 | 87.3 | 83.2 | 85.1 NM_002252.3 |
| 87.2 | 87.9 | 82.3 | 87.9 NM_020822.1 |
| 88.6 | 72.9 | 76.4 | 82.9 NM_198503.2 |
| 89.4 | 91.1 | 83.8 | 88.6 NM_014379.2 |
| 114.3 | 104.1 | 94.8 | 90.9 NM_001013620.1 |
| 91.8 | 94 | 76.1 | 91.5 NM_198991.1 |
| 154.3 | 185.1 | 158.1 | 132.6 NM_031954.3 |
| 110.3 | 120.2 | 116.3 | 93.3 NM_001002914.1 |
| 128.5 | 106.6 | 121.7 | 114.8 NM_138444.2 |
| 270.9 | 231.8 | 206.9 | 208.5 NM_178863.2 |
| 91.2 | 89.8 | 80.7 | 87.7 NM_023930.2 |
| 187.6 | 151 | 142.1 | 129.9 NM_024076.1 |
| 84.8 | 96.9 | 73.4 | 80.4 NM_020768.1 |
| 88.1 | 91 | 79.1 | 83.6 NM_024681.1 |
| 140.3 | 141 | 121.2 | 130.4 NM_152387.2 |
| 113.3 | 110.5 | 103.8 | 107.2 NM_015353.1 |
| 136.4 | 156.8 | 141.1 | 123.9 NM_015353.1 |
| 764.8 | 614.8 | 575 | 460.1 NM_016121.3 |
| 85.5 | 89 | 79.3 | 88.8 NM_198404.1 |
| 1259.6 | 1214.9 | 1173.4 | 653.4 NM_018992.1 |
| 342.3 | 279.3 | 241.2 | 251.1 NM_153331.2 |
| 92.7 | 93.4 | 88.9 | 99.6 NM_153033.1 |
| 98.7 | 107 | 101.2 | 96 NM_198353.1 |
| 498.7 | 254.8 | 237.6 | 298 NM_017634.2 |
| 99.7 | 94.3 | 90.7 | 88.8 NM_024089.1 |
| 387.1 | 369.7 | 235.8 | 421 NM_153705.2 |
| 1290.7 | 828.9 | 818.7 | 470.5 NM_006801.2 |
| 1519.6 | 1195.9 | 871.9 | 714.9 NM_006854.2 |
| 249.1 | 226.2 | 201.9 | 159.7 NM_016657.1 |
| 168.7 | 154 | 154.4 | 129.5 NM_006855.2 |
| 109.6 | 106.9 | 94.5 | 94.4 NM_016657.1 |
| 90.5 | 94.4 | 80 | 91.8 NM_002253.1 |

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| 733.7 | 569.1 | 519.2 | 423.1 NM_012289.3 |
| 102.5 | 85.9 | 90.4 | 86.7 NM_203500.1 |
| 972.5 | 684 | 596 | 549.5 NM_012289.3 |
| 94.1 | 91.6 | 95.8 | 85.1 NM_000420.2 |
| 143.1 | 152.4 | 132.2 | 137.6 NM_176816.2 |
| 82 | 88.8 | 77.3 | 83.3 NM_007035.3 |
| 75.4 | 76.3 | 82.3 | 84.6 NM_174950.2 |
| 4701.5 | 3540.4 | 3205.9 | 2323.2 NM_006559.1 |
| 87 | 89.4 | 84.4 | 85.3 NM_152688.1 |
| 96 | 86.7 | 75.9 | 81.7 NM_006558.1 |
| 122.3 | 103.6 | 95.6 | 91.5 NM_000221.1 |
| 94.7 | 100.5 | 89.3 | 104.9 NM_006488.1 |
| 98.3 | 97.2 | 100.1 | 99.7 NM_000221.1 |
| 815.7 | 775.2 | 608.4 | 301 NM_003685.1 |
| 2226.8 | 1684 | 1169.1 | 1034.9 NM_014878.3 |
| 98.5 | 104.9 | 92 | 104.8 NM_015050.1 |
| 394.6 | 392.6 | 361.1 | 297.1 NM_015047.1 |
| 102 | 99.5 | 97.5 | 96.3 NM_014680.2 |
| 6546.9 | 4547.1 | 3778.7 | 2717.2 NM_014736.4 |
| 666.1 | 553.9 | 485.4 | 562 NM_014736.4 |
| 11839.2 | 15391.8 | 16654.1 | 14388.6 NM_001029989.1 |
| 140.8 | 110.4 | 108.3 | 118.8 NM_014673.2 |
| 230.7 | 137.7 | 121.2 | 106.8 NM_014777.1 |
| 308.2 | 432.3 | 406.6 | 363 NM_014773.2 |
| 1255.8 | 976 | 806.3 | 643.4 NM_015137.1 |
| 1678.7 | 1976.3 | 1428.7 | 1156.4 NM_014730.2 |
| 911.1 | 519 | 486.1 | 340.6 NM_032182.2 |
| 1852.3 | 1273.4 | 1278.3 | 831.1 NM_014761.2 |
| 293.8 | 264.3 | 230.5 | 222.2 NM_015056.1 |
| 634.2 | 785.9 | 850.6 | 407.9 NM_014615.1 |
| 225 | 275 | 224.6 | 243.3 NM_014738.2 |
| 1473.7 | 1247.1 | 1044.6 | 998 NM_014846.2 |
| 182.2 | 185.4 | 184.4 | 172.7 NM_014743.1 |
| 459.6 | 583.9 | 572.7 | 419.2 NM_015349.1 |
| 134 | 137.1 | 110.8 | 114.9 NM_015060.1 |
| 237.6 | 276.7 | 238.1 | 210.5 NM_014734.2 |
| 163.9 | 162.7 | 130.3 | 136.9 NM_015027.1 |
| 158.4 | 239.9 | 257.1 | 205.7 NM_014701.2 |
| 109.3 | 91.8 | 97.6 | 93.6 NM_001080496.1 |
| 267.7 | 223.1 | 194 | 211.5 NM_015045.1 |
| 105.3 | 104.4 | 98.9 | 103 NM_014997.2 |
| 373.5 | 537.6 | 497.1 | 342.2 NM_014845.4 |
| 90.8 | 88.1 | 84.1 | 88.8 NM_015159.1 |
| 98.5 | 99.6 | 94 | 91.8 NM_015005.1 |
| 503 | 475.5 | 357.6 | 375.3 NM_015257.1 |
| 1710.4 | 1601.2 | 1497.2 | 1168.5 NM_014866.1 |
| 84.7 | 93.5 | 77.4 | 72.1 NM_014809.2 |
| 136.5 | 162.6 | 151.6 | 146.9 NM_024874.3 |
| 183.2 | 209.3 | 177.7 | 216.3 NM_024874.3 |
| 93.1 | 95.5 | 91.7 | 115 NM_182686.1 |

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|--------|--------|--------|--------|----------------|
| 242.6 | 218.9 | 223.9 | 201.6 | NM_015299.1 |
| 91.4 | 84.6 | 79.8 | 95.8 | NM_014844.2 |
| 565.7 | 610.8 | 654.4 | 327.1 | NM_015226.1 |
| 241.9 | 276.6 | 309.8 | 217.8 | NM_014686.2 |
| 84.6 | 90.3 | 86.6 | 92.5 | NM_015225.1 |
| 140.1 | 134.2 | 129.6 | 117.2 | NM_001080398.1 |
| 291 | 527.7 | 450.4 | 491.2 | NM_014639.2 |
| 1291.6 | 1744.7 | 1579.9 | 986.9 | NM_015330.1 |
| 539.5 | 331.5 | 274.8 | 240.3 | NM_014672.2 |
| 203.3 | 205.9 | 228.2 | 167.6 | NM_015104.1 |
| 158.7 | 154 | 163.1 | 144.9 | NM_014657.1 |
| 139.1 | 121.7 | 132.6 | 125.5 | NM_014702.3 |
| 237.3 | 186.1 | 163.1 | 131.6 | NM_015324.2 |
| 143.6 | 137.6 | 134.6 | 127.2 | NM_014855.1 |
| 141.6 | 119.1 | 137.5 | 117.9 | NM_015091.1 |
| 170.3 | 204.2 | 179.6 | 177 | NM_014772.1 |
| 472.3 | 310.8 | 306.1 | 231.9 | NM_014655.1 |
| 114.5 | 146.7 | 126.2 | 150.4 | NM_015203.2 |
| 86 | 99.6 | 84.6 | 89.9 | NM_015284.2 |
| 638.9 | 799.5 | 610.9 | 557.5 | NM_014774.1 |
| 95 | 126.5 | 112.3 | 103.8 | NM_207306.1 |
| 116.9 | 111.6 | 112.7 | 113.5 | NM_014732.2 |
| 80.2 | 77.6 | 84.9 | 84.7 | NM_014696.2 |
| 78.9 | 81 | 76.9 | 79.2 | NM_015253.1 |
| 416.4 | 367.8 | 313.3 | 263.6 | NM_014802.1 |
| 95 | 105 | 97.1 | 94.2 | NM_001002909.1 |
| 153.1 | 172.6 | 147.1 | 129.8 | NM_015202.1 |
| 158.2 | 146.3 | 141.2 | 163.8 | NM_014704.2 |
| 164.9 | 145 | 124.5 | 133 | NM_001009814.1 |
| 115.5 | 110.5 | 118.2 | 124.6 | NM_015058.1 |
| 203.4 | 214.8 | 191.6 | 127.6 | NM_014749.2 |
| 94 | 87.5 | 85.7 | 87.2 | NM_014817.2 |
| 112.6 | 136.7 | 102.3 | 105.3 | NM_014811.3 |
| 112.3 | 99.5 | 96 | 94.2 | NM_014741.2 |
| 228.1 | 231.7 | 193.9 | 196.3 | NM_015229.2 |
| 139.9 | 134.3 | 135.3 | 128.3 | NM_014859.3 |
| 310.8 | 293.8 | 276.6 | 150 | NM_016111.1 |
| 306.4 | 210.6 | 183.1 | 172.4 | NM_015179.2 |
| 115.2 | 113.6 | 121.6 | 100.9 | NM_001006947.1 |
| 83 | 86.4 | 72.4 | 82.6 | NM_014861.1 |
| 2088.7 | 3450.9 | 3567.6 | 2585.2 | NM_014719.1 |
| 542.4 | 423.7 | 345.2 | 292.1 | NM_015187.1 |
| 98 | 105.9 | 95.4 | 105.7 | NM_014804.1 |
| 157.1 | 121.3 | 108.4 | 109.3 | NM_001031690.1 |
| 108.2 | 103.4 | 103.6 | 108 | NM_014690.2 |
| 99.7 | 100 | 93.9 | 94.4 | NM_014690.2 |
| 96.4 | 91.5 | 90 | 90.1 | NM_015233.3 |
| 82.5 | 76.1 | 78.4 | 82.7 | NM_015233.3 |
| 85.6 | 84.6 | 83.1 | 89.1 | NM_001033602.1 |
| 154.3 | 167.7 | 138.1 | 168.9 | NM_015323.2 |

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| 96.3 | 95.1 | 90 | 83.3 NM_014653.2 |
| 90.9 | 98.6 | 88.8 | 92.7 NM_015210.1 |
| 141 | 178.5 | 164 | 152.9 NM_015328.1 |
| 198.5 | 180.1 | 179.2 | 180.2 NM_014924.3 |
| 87.4 | 88.1 | 81.2 | 82.3 NM_015070.2 |
| 437.9 | 338.4 | 294.9 | 235.3 NM_015935.4 |
| 1590.8 | 1313.3 | 1128.2 | 785 NM_015935.4 |
| 403 | 294.8 | 296.9 | 193.2 NM_015329.2 |
| 98.2 | 86.6 | 82.9 | 84.5 NM_015314.1 |
| 837.8 | 601.9 | 763.3 | 743.4 NM_014949.2 |
| 253.1 | 326.7 | 301.9 | 272 NM_015037.1 |
| 325 | 293.2 | 279.8 | 206.9 NM_015196.2 |
| 113.7 | 97.9 | 90.6 | 94.8 NM_014898.1 |
| 154.2 | 134.1 | 116 | 134.1 NM_014963.1 |
| 103.9 | 101.1 | 100.1 | 105.1 NM_025176.4 |
| 213.9 | 277.1 | 262.4 | 194.8 NM_025164.3 |
| 99 | 85.7 | 88.3 | 89.5 NM_015272.1 |
| 119.2 | 145.7 | 123.5 | 124.9 NM_014953.2 |
| 1024.9 | 1283.6 | 1252.1 | 1045.2 NM_014939.2 |
| 123.6 | 122.2 | 120.6 | 118.7 NM_015206.1 |
| 102.4 | 112.3 | 116.1 | 94.5 NM_001017999.1 |
| 101.5 | 97.8 | 86.1 | 99.3 NM_015209.1 |
| 97.1 | 87.5 | 88.1 | 84.9 NM_001018001.1 |
| 124.1 | 113.1 | 96 | 98.4 NM_001018000.2 |
| 88.7 | 82.5 | 89.8 | 87.3 NM_015209.1 |
| 82.7 | 94 | 95.8 | 93.3 NM_015275.1 |
| 176.6 | 193.8 | 155.5 | 172.9 NM_018999.2 |
| 91 | 95 | 80.1 | 90.6 NM_020696.1 |
| 285.4 | 566.3 | 467 | 438.2 NM_001080392.1 |
| 447.1 | 315.5 | 329.6 | 271.6 NM_020701.1 |
| 84.2 | 98.6 | 85.7 | 81.4 NM_020702.1 |
| 105.2 | 93.7 | 106.5 | 100.6 NM_018684.1 |
| 78.8 | 79.6 | 79.2 | 85.8 XM_945420.1 |
| 99.2 | 93.6 | 92.9 | 92.1 NM_020711.1 |
| 84 | 87.3 | 85.3 | 88 NM_001009959.1 |
| 90.5 | 92.3 | 87 | 92.5 NM_020711.1 |
| 819.8 | 693.7 | 687.9 | 511.1 NM_020444.2 |
| 545.7 | 505.5 | 481.7 | 406.2 NM_020444.2 |
| 95.5 | 76.6 | 78.1 | 82.3 NM_017550.1 |
| 88.2 | 93.9 | 96.3 | 94.8 NM_018689.1 |
| 148.5 | 148.6 | 141.9 | 167.1 NM_018084.3 |
| 86.6 | 84.8 | 80.8 | 79.5 NM_019590.2 |
| 260.4 | 246.8 | 214.1 | 184.7 NM_020336.1 |
| 98.2 | 90.5 | 97.4 | 86.9 NM_020340.2 |
| 574.4 | 524.8 | 564.7 | 574.5 NM_015443.2 |
| 88.9 | 95.8 | 79.3 | 77.3 NM_014431.1 |
| 99 | 107.3 | 102.5 | 91.8 NM_015634.2 |
| 105.4 | 90.7 | 112.5 | 83 NM_015694.1 |
| 217.9 | 262.8 | 261 | 201.8 NM_020748.1 |
| 92 | 92.7 | 85 | 86.2 NM_020775.2 |

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| 197.7 | 204.4 | 184.1 | 199.2 NM_152748.2 |
| 116.2 | 126.8 | 117.6 | 110.4 NM_020776.1 |
| 135.2 | 108.1 | 91.6 | 105.8 NM_017769.2 |
| 122.6 | 116.5 | 106.2 | 106.8 NM_020784.1 |
| 92.4 | 87.2 | 88.4 | 99.2 NM_001080522.1 |
| 126.2 | 148.7 | 160.3 | 162.7 NM_019600.1 |
| 96 | 100.1 | 78.8 | 84 NM_020802.1 |
| 111.9 | 104.6 | 109.2 | 114.5 NM_020817.1 |
| 102.4 | 89.8 | 88.9 | 96.6 NM_020818.2 |
| 206.3 | 203.1 | 199.3 | 162.7 NM_020819.2 |
| 199.1 | 213.7 | 172.9 | 172.9 NM_183009.1 |
| 100.8 | 94.6 | 92.6 | 93.9 NM_020829.1 |
| 208.9 | 286.1 | 255.7 | 253.6 NM_019593.2 |
| 87.4 | 91.6 | 89.3 | 95.7 NM_020834.1 |
| 163 | 122.1 | 130.9 | 115.7 NM_020836.2 |
| 91.5 | 88.5 | 86.2 | 95.3 NM_020844.1 |
| 155.5 | 131.2 | 117.1 | 117.7 NM_020853.1 |
| 193.3 | 177.9 | 186.5 | 165.7 NM_020854.2 |
| 108.6 | 110.6 | 110 | 109.6 NM_020879.1 |
| 135.9 | 128.3 | 148.4 | 141 NM_020888.1 |
| 78.6 | 91.8 | 81.5 | 86.3 NM_020890.1 |
| 81.4 | 72.1 | 77 | 90.9 NM_020893.1 |
| 187.5 | 202.9 | 249.1 | 223.1 NM_020894.1 |
| 109.3 | 106.7 | 95 | 97.9 NM_020894.1 |
| 156.9 | 217.1 | 179 | 196.3 NM_025182.2 |
| 85.1 | 90.3 | 100.7 | 86.7 NM_020901.1 |
| 95 | 90.5 | 107.1 | 93 XM_048362.9 |
| 108.3 | 98.1 | 87.4 | 96.5 NM_001080429.1 |
| 97.1 | 92.8 | 95.1 | 93.3 XM_166320.6 |
| 145.8 | 177.3 | 143.7 | 127.4 NM_001080450.1 |
| 92.6 | 95.4 | 112.9 | 109.8 NM_020917.1 |
| 156.5 | 111.6 | 116.9 | 111.1 NM_020927.1 |
| 127.9 | 105.7 | 107.1 | 122.4 NM_020931.1 |
| 414.5 | 461.2 | 364.6 | 439.8 NM_018330.3 |
| 298.7 | 206.9 | 167.6 | 178.1 NM_020940.2 |
| 111.2 | 100.8 | 96.2 | 109.9 NM_020943.1 |
| 119.6 | 112.1 | 94.3 | 104.7 NM_020947.2 |
| 215.4 | 164.1 | 179.6 | 146.7 NM_020954.2 |
| 86.9 | 79.2 | 75.3 | 96.4 NM_020958.2 |
| 96.8 | 82.8 | 88.9 | 93.1 NM_020958.2 |
| 71.6 | 78.5 | 78.4 | 83.4 NM_058237.1 |
| 135.5 | 134.5 | 117.7 | 119.1 NM_020961.2 |
| 86.7 | 119.2 | 118 | 101.2 NM_020964.1 |
| 112.3 | 119.3 | 99.1 | 102.5 NM_025190.2 |
| 100.8 | 86 | 99.1 | 90.6 NM_025249.1 |
| 96.3 | 96.2 | 88.2 | 86.6 NM_025251.1 |
| 299.7 | 203.6 | 185.9 | 170.2 NM_030628.1 |
| 92.5 | 84.4 | 82.2 | 82 NM_018559.2 |
| 159 | 196.1 | 191.3 | 150.3 NM_030636.2 |
| 754.9 | 611.2 | 621 | 414.6 NM_001040157.1 |

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| 348.6 | 535.2 | 482.8 | 438.8 NM_030650.1 |
| 97.6 | 103.9 | 90.4 | 90.9 NM_033393.1 |
| 508.6 | 196.6 | 184 | 182.9 NM_053042.2 |
| 336.3 | 244.9 | 246.7 | 253.3 NM_033426.2 |
| 444.9 | 537.8 | 715.8 | 927.6 NM_001080484.1 |
| 268.9 | 172 | 141.6 | 129.5 NM_033397.2 |
| 88.6 | 85.7 | 84.6 | 89.9 NM_001008949.1 |
| 86.3 | 84.4 | 87.3 | 85 NM_001008949.1 |
| 91.4 | 88 | 79.8 | 86.1 NM_178495.4 |
| 86.6 | 92.7 | 91.1 | 91.9 NM_001029864.1 |
| 101.9 | 95.2 | 89.9 | 92.1 NM_024935.2 |
| 183.7 | 200.4 | 183.3 | 183.2 NM_032442.2 |
| 218.4 | 199.1 | 177.9 | 203.2 NM_018193.1 |
| 192.3 | 183.2 | 148.5 | 152.1 NM_017794.2 |
| 99 | 91.7 | 84.9 | 89.4 NM_032437.1 |
| 121.7 | 117.3 | 106.2 | 136.6 NM_032435.1 |
| 133.9 | 170 | 159.7 | 145.3 NM_024896.2 |
| 94.9 | 93.2 | 82.1 | 90.3 NM_032425.3 |
| 97.6 | 85.8 | 88.5 | 100.4 NM_024746.2 |
| 661.2 | 463.5 | 403.7 | 317.8 NM_032424.1 |
| 1219.7 | 1602.3 | 1781 | 940.6 NM_032448.1 |
| 482.7 | 787 | 706 | 790.9 NM_025137.2 |
| 79.2 | 71 | 69 | 75 NM_032506.1 |
| 86.6 | 85.1 | 79.2 | 85.5 NM_194286.2 |
| 130.2 | 127.4 | 125.2 | 113.2 NM_032534.1 |
| 99.1 | 115.8 | 127.6 | 102.4 NM_032529.1 |
| 95.6 | 104 | 100.1 | 102.5 NM_052899.1 |
| 93.5 | 91 | 77.8 | 84 NM_052904.1 |
| 93.9 | 94.4 | 81.3 | 85.6 NM_052906.1 |
| 79.1 | 78 | 73.4 | 88.6 NM_052909.2 |
| 82.6 | 84.1 | 83.6 | 79.9 XM_941554.1 |
| 104.4 | 109.8 | 90.3 | 106 NM_052913.2 |
| 98.4 | 95.9 | 104.3 | 98.2 NM_001001936.1 |
| 95.1 | 101.9 | 84.7 | 97.9 NM_153369.1 |
| 100.7 | 108.2 | 95.4 | 95.6 NM_052919.1 |
| 75.4 | 76.3 | 73.3 | 83.8 NM_153239.2 |
| 86.1 | 81.5 | 82.8 | 85 NM_133448.1 |
| 96.6 | 101.6 | 87.4 | 96.2 NM_177454.2 |
| 116.5 | 109.3 | 134 | 112.9 NM_133465.1 |
| 85 | 78.8 | 69.9 | 77.7 NM_133372.1 |
| 458.7 | 593.2 | 500.2 | 523.5 NM_133372.1 |
| 321.6 | 287 | 241.1 | 221.9 NM_021174.4 |
| 103.4 | 131.3 | 112.6 | 117.3 NM_199205.1 |
| 96.6 | 92.8 | 82.1 | 110.8 NM_021174.4 |
| 396.5 | 264.6 | 219.2 | 225.4 NM_133451.1 |
| 96.5 | 95.3 | 102.2 | 98.1 NM_032874.2 |
| 91.5 | 88.7 | 95.6 | 88.9 NM_032560.3 |
| 799.8 | 568.2 | 458.9 | 453.4 NM_032560.3 |
| 439.1 | 381.3 | 376.7 | 281.6 NM_138346.1 |
| 82.5 | 91 | 83.6 | 89.6 NM_001009899.1 |

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| 83.6 | 96.2 | 91.1 | 102.9 | NM_001008537.1 |
| 355.8 | 535.5 | 408 | 453.9 | NM_001017969.1 |
| 762.5 | 1208.1 | 873.8 | 1305.3 | NM_020738.1 |
| 474.6 | 276.9 | 214.5 | 259.9 | NM_004523.2 |
| 102.2 | 96.5 | 93.1 | 97.3 | NM_138424.1 |
| 91 | 87.8 | 95.6 | 101.4 | NM_022113.3 |
| 220.8 | 239 | 209.7 | 221.3 | NM_015254.2 |
| 535.9 | 406.7 | 324.8 | 330.6 | NM_014875.1 |
| 697.6 | 531.7 | 476.4 | 537.3 | NM_020242.1 |
| 259 | 163.4 | 148.7 | 136.1 | NM_020816.1 |
| 168.7 | 116.2 | 108.6 | 102 | NM_031217.2 |
| 102.5 | 92.1 | 90 | 87.1 | NM_153209.1 |
| 94.2 | 94.1 | 78.8 | 87.3 | NM_004321.4 |
| 97.2 | 97.2 | 96.7 | 92.9 | NM_183416.2 |
| 92.9 | 126 | 114.5 | 97.1 | NM_183416.2 |
| 174.3 | 262.7 | 251.6 | 227.5 | NM_015074.2 |
| 96.3 | 102.7 | 92.7 | 97.2 | NM_006612.3 |
| 648.7 | 605.2 | 422.6 | 471.1 | NM_004520.1 |
| 863.7 | 549 | 471.2 | 369.3 | NM_005733.1 |
| 95.7 | 127.4 | 104 | 101.4 | NM_017641.2 |
| 86.9 | 97.1 | 92.4 | 90.3 | XM_935437.1 |
| 151.8 | 102.4 | 94.7 | 103.2 | NM_017596.2 |
| 111.2 | 93.5 | 87.4 | 94.4 | NM_138555.1 |
| 271.4 | 227.2 | 169.4 | 171.6 | NM_004856.4 |
| 88.8 | 79.1 | 79.8 | 74.7 | NM_030615.1 |
| 109.2 | 110.5 | 108.2 | 99 | NM_005355.2 |
| 83.4 | 79.6 | 81.6 | 88.9 | NM_018012.2 |
| 105.2 | 113.1 | 92.4 | 110.5 | NM_017576.1 |
| 88.2 | 81.5 | 69.6 | 83.6 | NM_017576.1 |
| 96.6 | 91.2 | 93.6 | 89.5 | NM_032559.3 |
| 714.5 | 563.4 | 464.3 | 314.6 | NM_006845.2 |
| 82.9 | 84.7 | 74.3 | 87 | NM_007054.4 |
| 275.3 | 295.2 | 276.7 | 251.4 | NM_004798.2 |
| 100.8 | 92.6 | 101.6 | 102.4 | NM_002254.5 |
| 293.2 | 360.5 | 246.8 | 242.8 | NM_012310.2 |
| 93.9 | 89.4 | 92.7 | 88.8 | NM_004984.2 |
| 413.1 | 375.3 | 293.4 | 252.2 | NM_004521.1 |
| 97.3 | 98.4 | 98.3 | 90.3 | NM_004522.1 |
| 114.2 | 114.2 | 91.9 | 109.7 | NM_145027.3 |
| 117 | 183.6 | 127 | 133.4 | NM_198525.1 |
| 88.4 | 87.2 | 80.7 | 94.6 | NM_182903.2 |
| 245.2 | 206.6 | 191.6 | 179.8 | NM_014970.2 |
| 2436.2 | 1703.4 | 1617 | 1199.8 | NM_002263.2 |
| 267.8 | 269.8 | 276.1 | 251.2 | NM_145754.2 |
| 85.2 | 93 | 97.2 | 87.6 | NM_005550.2 |
| 105.1 | 100.3 | 107.9 | 101.2 | NM_012311.2 |
| 97.6 | 93.9 | 90.4 | 98.4 | NM_014218.1 |
| 96.6 | 86.2 | 91.4 | 105.2 | NM_014511.3 |
| 111.4 | 97.1 | 98.4 | 91.9 | NM_015868.2 |
| 105.4 | 94.5 | 100.6 | 93 | NM_001080770.1 |

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| 90.6 | 94 | 85.6 | 105.4 NM_020535.3 |
| 103.5 | 107.8 | 88.4 | 104.1 NM_020535.3 |
| 103.4 | 82.2 | 82.3 | 86.8 NM_020535.3 |
| 87.9 | 81.9 | 77.5 | 86.3 NM_001018081.1 |
| 98.2 | 83.8 | 83.7 | 87.8 NM_014512.1 |
| 91.5 | 86.9 | 80 | 88.9 NM_012313.1 |
| 95.9 | 78.4 | 81.9 | 84.8 NM_012314.2 |
| 96.7 | 98 | 89 | 92.5 NM_014513.1 |
| 96.7 | 99.3 | 98.1 | 102.7 NM_013289.1 |
| 88.7 | 90.2 | 94.3 | 87.8 NM_006737.1 |
| 93.8 | 96.4 | 82.2 | 90 NM_153443.2 |
| 102.5 | 90.9 | 86.6 | 87.4 NM_001015070.1 |
| 94.1 | 86.2 | 96.2 | 85.1 NM_018240.3 |
| 111.1 | 96.9 | 90.8 | 100.8 NM_199180.1 |
| 101.4 | 92.5 | 78.8 | 85.4 NM_032123.4 |
| 110.5 | 103.5 | 101.3 | 102.6 NM_199179.1 |
| 77.8 | 96.6 | 82.1 | 79.2 NM_032531.1 |
| 97.4 | 96.3 | 91.4 | 91.9 NM_002256.2 |
| 97.6 | 91.6 | 89.6 | 83.7 NM_032551.3 |
| 118.6 | 113.6 | 111.2 | 101.6 NM_000222.1 |
| 146.7 | 153.9 | 150.1 | 149.7 NM_000899.3 |
| 94.9 | 90 | 85.6 | 89.8 NM_000899.3 |
| 134.7 | 117 | 108.5 | 114.9 NM_153683.2 |
| 101.2 | 100.4 | 98.8 | 94.7 NM_175737.2 |
| 85.2 | 88 | 81 | 92 NM_022822.1 |
| 115.3 | 97.1 | 92.6 | 93.7 NM_022822.1 |
| 86.9 | 81.9 | 80.6 | 84 NM_177417.1 |
| 90.4 | 90.3 | 84 | 81.5 NM_145275.1 |
| 98.7 | 98.9 | 99 | 104.7 NM_138343.2 |
| 82.8 | 80.1 | 79.5 | 85.3 NM_201522.1 |
| 80 | 86.6 | 80.7 | 85.3 NM_201523.1 |
| 101.3 | 92.7 | 100.3 | 89.2 NM_006563.2 |
| 118.3 | 156.7 | 145.7 | 135.6 NM_005655.1 |
| 105.2 | 117.3 | 117 | 120.3 NM_001032282.1 |
| 131.8 | 139.8 | 122.5 | 116.6 NM_005655.1 |
| 148.1 | 132.5 | 124.7 | 139 NM_003597.4 |
| 662.9 | 699.4 | 765.6 | 423 XM_938887.1 |
| 97.3 | 111.2 | 101.7 | 114.4 NM_007249.3 |
| 89.8 | 103.5 | 89 | 99.9 NM_016285.2 |
| 576.3 | 940.2 | 828.8 | 632.8 NM_015995.2 |
| 90.1 | 87.6 | 85.9 | 93 NM_138693.1 |
| 102.9 | 102.6 | 99.4 | 107.6 NM_014079.2 |
| 86.3 | 93.4 | 82.5 | 82.6 NM_031918.1 |
| 87.9 | 87.5 | 84.3 | 86.5 NM_173484.2 |
| 300.2 | 120 | 149.9 | 118.2 NM_016270.2 |
| 95.1 | 104.3 | 86.1 | 85.8 NM_016531.3 |
| 290.2 | 223.2 | 159.9 | 197 NM_004235.3 |
| 84.2 | 78.8 | 93.3 | 93.6 NM_001730.3 |
| 183.2 | 185.4 | 149.5 | 134.7 NM_001008490.1 |
| 505.7 | 405.8 | 413.6 | 265.2 NM_001300.4 |

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| 86.9 | 88 | 85.2 | 79.2 | NM_003709.1 |
| 125.1 | 117.5 | 112.9 | 106.9 | NM_007250.2 |
| 696.6 | 641.1 | 599.9 | 404 | NM_001206.2 |
| 85.3 | 84.7 | 87.6 | 81.2 | NM_172193.1 |
| 231.8 | 227.1 | 269.4 | 201.4 | NM_014315.2 |
| 2221.5 | 1613.2 | 1864 | 1153.1 | NM_057161.2 |
| 314.9 | 190 | 179.5 | 125.3 | NM_017566.2 |
| 745.1 | 507.7 | 577.3 | 396.4 | NM_020782.1 |
| 84.1 | 81.6 | 83.2 | 81.4 | NM_207335.1 |
| 107.2 | 101.3 | 94.6 | 96.1 | NM_152375.1 |
| 86.9 | 83.1 | 82.6 | 91.4 | NM_138433.2 |
| 72.1 | 79.1 | 72.8 | 74.2 | NM_018203.1 |
| 155.2 | 345.5 | 362.7 | 233.5 | NM_173546.1 |
| 88 | 85.8 | 87.3 | 89.9 | NM_020866.1 |
| 80.5 | 87.5 | 78 | 86.2 | NM_152467.1 |
| 114.4 | 105.3 | 104.7 | 92.9 | NM_018143.1 |
| 1330.4 | 1003.5 | 900.7 | 683.3 | NM_021633.2 |
| 96.6 | 92.8 | 89 | 100.1 | NM_033495.2 |
| 84.3 | 84.4 | 81.9 | 93.6 | NM_020805.1 |
| 91.9 | 84.1 | 99.9 | 97.9 | NM_030624.1 |
| 98.9 | 107.6 | 95.8 | 95.6 | NM_198317.1 |
| 137 | 159.5 | 163.2 | 133.9 | XM_936706.1 |
| 141.9 | 128.7 | 117.9 | 102.5 | NM_025010.2 |
| 177.1 | 155.1 | 159.9 | 150.2 | NM_007246.2 |
| 272.3 | 261.1 | 263.5 | 247.5 | NM_014458.3 |
| 177.1 | 144.9 | 119.5 | 135.1 | NM_014851.2 |
| 424 | 479.6 | 549.4 | 258.5 | NM_032775.2 |
| 114.7 | 107.4 | 102.9 | 99.3 | NM_144711.3 |
| 96.3 | 98.4 | 91.9 | 96.8 | NM_022480.2 |
| 107.1 | 118.1 | 104.4 | 103.6 | NM_018316.1 |
| 172.4 | 195.8 | 227.6 | 144.1 | NM_017415.1 |
| 76.8 | 82.7 | 83.2 | 83.5 | NM_057162.1 |
| 95.7 | 89 | 83.8 | 92.4 | NM_019117.3 |
| 109.3 | 99.2 | 90 | 90.4 | NM_001007075.1 |
| 642.9 | 651.9 | 506.8 | 591.2 | NM_001007075.1 |
| 193.6 | 210.5 | 207.1 | 193.1 | NM_001007075.1 |
| 161 | 173.7 | 187.1 | 155.9 | NM_001031710.1 |
| 109.8 | 109.5 | 103.3 | 105.2 | NM_018846.2 |
| 628 | 664.7 | 628.5 | 453.4 | NM_020803.3 |
| 91.9 | 81.5 | 88.7 | 82.9 | NM_018847.1 |
| 151.1 | 108.4 | 111.6 | 98.7 | NM_002257.2 |
| 84.4 | 76.3 | 87.2 | 87.4 | NM_002776.3 |
| 113.6 | 108 | 107.1 | 98.5 | NM_145888.1 |
| 93.7 | 96.8 | 86.2 | 90.1 | NM_144947.1 |
| 93.7 | 97.2 | 79.8 | 91.4 | NM_006853.2 |
| 80.9 | 82.2 | 80.5 | 80.7 | NM_019598.2 |
| 83.9 | 82.6 | 89.8 | 80.6 | NM_019598.2 |
| 102.9 | 78.2 | 78.8 | 82.6 | NM_015596.1 |
| 96.9 | 88.6 | 84.6 | 88.2 | NM_022046.3 |
| 87.7 | 93.5 | 91 | 87.1 | NM_023006.1 |

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| 93.1 | 87.2 | 84.4 | 87.1 NM_017509.2 |
| 90.1 | 90 | 80.7 | 89.5 NM_017509.2 |
| 90.5 | 88.1 | 84 | 94 NM_001002232.1 |
| 87.6 | 91.5 | 77.4 | 85.3 NM_005551.3 |
| 80.9 | 86 | 72 | 80.3 NM_001030050.1 |
| 82.5 | 82.3 | 80.7 | 89.1 NM_001030047.1 |
| 87.5 | 87 | 78.6 | 76.2 NM_001030050.1 |
| 84.5 | 89.7 | 80.7 | 91.2 NM_004917.2 |
| 79.4 | 76.4 | 72.6 | 86.3 NM_012427.3 |
| 80.2 | 84.4 | 67.7 | 75.9 NM_012427.3 |
| 104 | 85.6 | 83.6 | 82.3 NM_012427.3 |
| 86.4 | 87.7 | 87.3 | 91.8 NM_002774.3 |
| 90.7 | 89.3 | 78 | 83.1 NM_002774.3 |
| 100.8 | 94.6 | 93.3 | 103.9 NM_005046.2 |
| 113.2 | 114.2 | 107 | 101 NM_139277.1 |
| 84 | 91.8 | 88.8 | 91.6 NM_144505.1 |
| 81 | 96.5 | 85.4 | 87.9 NM_144507.1 |
| 81.3 | 78.9 | 73.2 | 93.9 NM_012315.1 |
| 83.2 | 93.8 | 103.8 | 85.1 NM_000892.2 |
| 86.6 | 82.9 | 78.9 | 84.1 NM_001080492.1 |
| 78.1 | 88.6 | 82.8 | 97.2 NR_002948.1 |
| 135.3 | 112.6 | 115.3 | 108.2 NM_020378.2 |
| 110 | 98 | 87 | 103.8 NM_006611.1 |
| 87 | 77.6 | 81.7 | 90.2 NM_002258.2 |
| 93.2 | 90.9 | 91 | 87.9 NM_213657.1 |
| 93.2 | 93.1 | 80.4 | 94.5 NM_002260.3 |
| 87 | 78 | 78.1 | 88.9 NM_002261.2 |
| 104.2 | 96.3 | 89.1 | 104.7 NM_002261.2 |
| 96.4 | 83 | 80 | 82 NM_007333.2 |
| 103.4 | 99.1 | 90 | 98.5 NM_013431.1 |
| 87.3 | 81.9 | 77.4 | 85.7 NM_002262.2 |
| 86.3 | 98.2 | 84.8 | 95.6 NM_007334.1 |
| 100.8 | 101.9 | 107 | 99.1 NM_016523.1 |
| 91.8 | 86.5 | 79.5 | 91.4 NM_005810.3 |
| 123.3 | 109.7 | 102.7 | 97.3 NM_198508.2 |
| 102.4 | 101 | 102.4 | 95.1 NM_007360.1 |
| 99.1 | 96.7 | 97.5 | 93.7 NM_003679.2 |
| 80.2 | 79.1 | 78.2 | 94.2 NM_033404.2 |
| 96.7 | 83.9 | 88.4 | 92.6 NM_152643.5 |
| 92.2 | 91.4 | 81.2 | 93 NM_000893.2 |
| 175.5 | 151.7 | 142.3 | 122.6 NM_005552.3 |
| 298.2 | 274.6 | 248.4 | 229.1 NM_182923.2 |
| 723.2 | 1016.4 | 1075.7 | 781.8 NM_014708.3 |
| 455.4 | 272.5 | 238.6 | 257.8 NM_006101.1 |
| 170.6 | 119.6 | 121.7 | 139.8 NM_002266.2 |
| 366 | 327.8 | 250.1 | 426.9 NM_002267.2 |
| 1226.6 | 1190.2 | 933 | 727.6 NM_002268.3 |
| 115.6 | 124 | 120.2 | 104.7 NM_002269.2 |
| 602.5 | 933 | 681.7 | 835.4 NM_012316.3 |
| 6447.9 | 5289.1 | 5444.5 | 4371.7 NM_002265.4 |

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| 83.5 | 88.9 | 89.9 | 87.6 NM_007059.2 |
| 329.5 | 245.2 | 201.9 | 189 NM_004985.3 |
| 91 | 84.9 | 88.7 | 93 NM_033360.2 |
| 246.4 | 228.7 | 215.2 | 288.5 NM_016618.1 |
| 86.3 | 93.1 | 83.5 | 79 NM_153379.1 |
| 131.4 | 127 | 86.7 | 113 NM_153379.1 |
| 82.7 | 83.9 | 84.4 | 81.1 NM_172229.1 |
| 186.3 | 137.1 | 132.3 | 103.8 NM_024507.2 |
| 91 | 99.9 | 96.9 | 105.1 NM_001013406.1 |
| 89.1 | 83.5 | 84.3 | 87.1 NM_006121.2 |
| 1529.3 | 1060.1 | 1203.2 | 816.5 NM_000421.2 |
| 91.9 | 99.3 | 92.3 | 89.3 NM_000223.2 |
| 82.9 | 83.1 | 75.2 | 85 NM_002274.2 |
| 94.7 | 87.6 | 89.6 | 94.7 NM_000526.3 |
| 92.7 | 88.5 | 98.8 | 88.1 NM_002275.2 |
| 89.1 | 93 | 91.1 | 81.9 NM_005557.2 |
| 91.7 | 169.8 | 189.6 | 128.9 NM_000422.1 |
| 83.4 | 87.2 | 77.8 | 76.3 NM_000224.2 |
| 94 | 94.8 | 93.9 | 97.4 NM_199187.1 |
| 95.8 | 80.9 | 79.4 | 80.8 NM_002276.3 |
| 84 | 86.4 | 79.1 | 89.1 NM_175078.1 |
| 85.1 | 84.4 | 76.1 | 83.4 NM_019010.1 |
| 123.5 | 103.9 | 109 | 97 NM_015515.3 |
| 103.6 | 102 | 90.5 | 91.7 NM_019016.1 |
| 74.4 | 80.3 | 78.7 | 81.5 NM_181534.2 |
| 89.5 | 96.8 | 82.2 | 89.8 NM_181537.2 |
| 92.4 | 91.9 | 92.9 | 84.6 NM_181535.2 |
| 88.2 | 88.8 | 83.3 | 91.9 NM_181539.3 |
| 87.1 | 84.6 | 77.6 | 87.7 NM_000423.2 |
| 90.7 | 98.9 | 89.8 | 101.8 NM_015848.1 |
| 94.8 | 103.1 | 89 | 91.1 NM_057088.1 |
| 98.9 | 97 | 90.7 | 88.3 NM_004138.2 |
| 87.3 | 89.8 | 84.9 | 86.8 NM_213656.2 |
| 88.7 | 92.6 | 87.1 | 94.6 NM_002272.1 |
| 73.5 | 76 | 71.2 | 75.8 NM_182497.2 |
| 88.8 | 97.6 | 76.9 | 85.4 NM_000424.2 |
| 106.5 | 100.2 | 86.8 | 102.4 NM_005554.3 |
| 89 | 82.1 | 77.6 | 93.8 NM_005555.2 |
| 92.5 | 100.2 | 92.3 | 92.9 NM_173086.2 |
| 91.4 | 83.8 | 83.1 | 89.5 NM_033448.1 |
| 101.1 | 90.7 | 97.2 | 93.9 NM_175834.2 |
| 100.1 | 95.3 | 91.8 | 86.1 NM_005556.3 |
| 95.2 | 105.8 | 87.8 | 87.7 NM_002273.2 |
| 88.2 | 106.2 | 92.3 | 85.3 NM_002284.3 |
| 103.2 | 116.9 | 110.5 | 105.6 NM_000226.2 |
| 83.6 | 85.8 | 80.8 | 83.5 NM_198691.2 |
| 107.2 | 115.1 | 101.2 | 101.6 NM_181688.1 |
| 103 | 107.6 | 79.3 | 92.1 NM_198692.1 |
| 84.5 | 80.5 | 81.5 | 79.4 NM_198699.1 |
| 102.9 | 108.1 | 93 | 93.7 XM_942388.1 |

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| 83.8 | 77.9 | 77.7 | 86.9 NM_198693.2 |
| 89.2 | 90.2 | 87.4 | 97 NM_198696.2 |
| 89.3 | 85.6 | 87.3 | 93.5 NM_198687.1 |
| 99.9 | 88.5 | 73.3 | 85.6 NM_198694.2 |
| 85.2 | 84.8 | 73 | 82.1 NM_198689.1 |
| 90.3 | 82.5 | 85.1 | 80.7 NM_198695.1 |
| 104.8 | 106.5 | 107.3 | 100.6 NM_198690.1 |
| 81.5 | 74.1 | 82.4 | 82.5 NM_030967.2 |
| 91.5 | 88 | 84.3 | 91.4 NM_175858.2 |
| 99.1 | 91.8 | 89.1 | 94.1 NM_181686.1 |
| 93.7 | 95.6 | 88.7 | 99 NM_181684.2 |
| 87.4 | 80.1 | 80.7 | 81.5 NM_198697.1 |
| 93.2 | 94.9 | 96.4 | 89.7 NM_198698.1 |
| 99 | 95.3 | 80.2 | 93.6 NM_030966.1 |
| 88.2 | 93.7 | 87.1 | 95 NM_181599.2 |
| 86.4 | 85.4 | 79.2 | 83.6 NM_181621.2 |
| 97.3 | 90.7 | 82.8 | 86.5 NM_181622.1 |
| 98.5 | 94.5 | 82.7 | 97.6 NM_181600.1 |
| 91.5 | 90.6 | 81.1 | 88.3 NM_181623.1 |
| 85.6 | 80.6 | 87.7 | 83.5 NM_031964.1 |
| 73.9 | 89 | 80 | 86.5 NM_181607.1 |
| 81.7 | 89.2 | 77.7 | 81.9 NM_181608.1 |
| 91.8 | 84.6 | 81.5 | 82.9 NM_181609.2 |
| 90.9 | 82.8 | 82.5 | 94.1 NM_181610.1 |
| 86.7 | 83.9 | 77.1 | 78.7 NM_181611.1 |
| 134.2 | 99.8 | 112.6 | 102.2 NM_181612.1 |
| 98.3 | 91.8 | 92.3 | 86 NM_181614.1 |
| 85.1 | 83.1 | 89.8 | 84.9 NM_181615.1 |
| 99.8 | 85.1 | 89 | 93.7 NM_181616.1 |
| 92.4 | 87.3 | 89.7 | 95.2 NM_181619.1 |
| 104 | 93.4 | 106.3 | 102 NM_181617.1 |
| 85.6 | 83.5 | 79.8 | 91.7 NM_181620.1 |
| 97.3 | 89.5 | 83.3 | 91.9 NM_181624.1 |
| 90.2 | 97.7 | 89.1 | 84.2 NM_203405.1 |
| 95.5 | 95 | 87.9 | 100 NM_001077711.1 |
| 84.3 | 82.4 | 82 | 85 NM_031958.1 |
| 87.5 | 90 | 83.4 | 85.6 NM_031959.2 |
| 83.5 | 86.5 | 79.7 | 84.2 NM_033060.2 |
| 98.5 | 100 | 81.3 | 87.9 NM_031854.2 |
| 88.4 | 90 | 90.5 | 91.1 NM_033059.2 |
| 90.7 | 80 | 76.8 | 84 NM_033062.2 |
| 87.4 | 84.5 | 84.1 | 87.3 NM_032524.1 |
| 80.7 | 80.6 | 80.5 | 84.2 NM_033188.2 |
| 83.5 | 88.9 | 78.6 | 86.6 NM_033061.2 |
| 86.6 | 85 | 83.2 | 89 NM_001005922.1 |
| 89 | 93.4 | 89.9 | 88.3 NM_001012710.1 |
| 88.2 | 87.2 | 89 | 84.1 NM_001005405.1 |
| 86.2 | 80.7 | 78.6 | 90.8 NM_001004325.1 |
| 87.3 | 79.1 | 80.7 | 70.6 NM_001012708.1 |
| 82.8 | 85.1 | 81.3 | 80 NM_001012709.1 |

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| 87.5 | 80.3 | 76.3 | 75 NM_001001480.2 |
| 85.8 | 87.7 | 79.4 | 84 NM_001012416.1 |
| 90.8 | 89.7 | 89.8 | 96.5 NM_001012503.1 |
| 87.9 | 86.7 | 78.2 | 83 NM_021046.2 |
| 88 | 85.3 | 88.1 | 84.2 NM_005553.2 |
| 87.1 | 84.9 | 88.9 | 83.9 NM_181602.1 |
| 93.4 | 86.8 | 84.4 | 89.9 NM_181604.1 |
| 93 | 83 | 85.6 | 82.4 NM_181605.1 |
| 76.7 | 79.6 | 76.2 | 88.1 NM_175857.3 |
| 89.7 | 88.6 | 74.1 | 83.3 NM_031962.2 |
| 93.8 | 89.9 | 94.2 | 102.8 NM_033191.2 |
| 5510 | 3459.2 | 3700.7 | 1954.5 NM_173852.3 |
| 107.9 | 95 | 91.4 | 91.4 NM_173853.2 |
| 85.7 | 80.2 | 87.2 | 82.6 NM_002278.2 |
| 92.8 | 86.8 | 80.6 | 85.8 NM_002279.3 |
| 89.5 | 87.6 | 87.3 | 96.5 NM_021013.3 |
| 87.2 | 98.5 | 89.6 | 93.9 NM_002280.3 |
| 99 | 89 | 80.4 | 97.4 NM_003771.3 |
| 86.2 | 93.8 | 82 | 91 NM_003770.4 |
| 93.4 | 98.1 | 86.4 | 91.7 NM_006771.3 |
| 88.5 | 96.3 | 95 | 93.2 NM_002281.2 |
| 88.4 | 78.6 | 78 | 90.5 NM_033033.3 |
| 112.7 | 110.9 | 112.9 | 110.1 NM_002282.2 |
| 88.9 | 90.3 | 83.7 | 87.8 NM_033045.2 |
| 92.8 | 89.4 | 97.5 | 107.4 NM_002283.2 |
| 92.3 | 94 | 81.6 | 93.2 NM_031950.2 |
| 101.1 | 88.9 | 93.3 | 88.4 NM_014238.1 |
| 98.2 | 93.1 | 81.3 | 91.9 NM_173598.2 |
| 302.2 | 238.1 | 225.2 | 228.8 NM_138417.2 |
| 458.1 | 699.4 | 407.6 | 500.1 NM_004986.2 |
| 190.4 | 230.6 | 187.4 | 178.1 NM_182926.1 |
| 397.8 | 421.7 | 405.3 | 254.9 NM_199129.1 |
| 147.4 | 143.4 | 112.8 | 116.4 NM_003349.4 |
| 118.2 | 122.6 | 107 | 109.8 NM_178554.3 |
| 625.7 | 1008.1 | 817.8 | 844.4 NM_003937.2 |
| 358.5 | 500 | 408.6 | 321 NM_003937.2 |
| 100.2 | 108.5 | 100.9 | 100.7 NM_000425.2 |
| 125.7 | 112.7 | 109 | 111 NM_024003.1 |
| 96.2 | 90 | 95.7 | 101.1 NM_032107.2 |
| 87 | 86.7 | 76.2 | 85.4 NM_032107.2 |
| 92 | 84.5 | 105.4 | 102.3 NM_015478.4 |
| 87.6 | 104.4 | 100.5 | 94.2 NM_015478.4 |
| 91.9 | 91.2 | 87.7 | 91.9 NM_001003689.1 |
| 1143.9 | 966.9 | 704.1 | 648.6 NM_031488.4 |
| 201 | 153.4 | 143.2 | 141.8 NM_001007102.1 |
| 95.5 | 82.3 | 82.8 | 86.9 NM_001007102.1 |
| 84.8 | 83.4 | 82 | 84.7 NM_032438.1 |
| 89.7 | 84.5 | 83 | 86.3 NM_173464.1 |
| 121.2 | 124.6 | 125.7 | 123.8 NM_145315.3 |
| 86.7 | 81.4 | 83 | 83.3 NM_033277.1 |

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| 137.9 | 126.7 | 122.3 | 177.6 NM_171846.1 |
| 854.1 | 1171.9 | 956.5 | 785.6 NM_032857.2 |
| 121.6 | 148.7 | 132.1 | 140.1 NM_171846.1 |
| 650.4 | 390.8 | 426.9 | 288 NM_016027.1 |
| 89.2 | 86 | 81.4 | 85.6 NM_005558.3 |
| 87.3 | 92.2 | 86.2 | 97.4 NM_005558.3 |
| 92.1 | 95.8 | 102.2 | 94.9 NM_002286.4 |
| 347.2 | 227.1 | 232.3 | 188.3 NM_021708.1 |
| 34217.5 | 36533.1 | 37766.6 | 36453.1 NM_021706.2 |
| 100.2 | 96.1 | 98.3 | 106.1 NM_002288.3 |
| 147.9 | 135.7 | 142.3 | 133.4 NM_021270.2 |
| 90.6 | 94.5 | 91.9 | 89.7 NM_002289.2 |
| 87.4 | 83.1 | 87.5 | 92.3 NM_005559.2 |
| 81.3 | 76.7 | 77.9 | 80.6 NM_005559.2 |
| 111.3 | 106.6 | 106.4 | 89.9 NM_000426.2 |
| 91.2 | 91.2 | 93.8 | 83.9 NM_000426.3 |
| 98.8 | 90.3 | 89.1 | 99.5 NM_198129.1 |
| 80.6 | 92.1 | 89.3 | 80 NM_198129.1 |
| 100.8 | 86.5 | 97.1 | 95.9 NM_000227.2 |
| 93.3 | 99 | 95.7 | 91.1 NM_198129.1 |
| 85.8 | 84.5 | 82.9 | 84.8 NM_002290.2 |
| 618.2 | 498.4 | 621.6 | 330.1 NM_005560.3 |
| 90.5 | 86.6 | 95.2 | 90.3 NM_002291.1 |
| 93.6 | 80.2 | 80.5 | 84.3 NM_002292.2 |
| 128.5 | 135 | 121.7 | 121.8 NM_000228.2 |
| 95.9 | 86.8 | 89 | 90.5 NM_001017402.1 |
| 86.5 | 85.3 | 84.6 | 87.3 NM_000228.2 |
| 92.2 | 96.9 | 92.6 | 80.4 NM_007356.1 |
| 1058.6 | 1552.9 | 1283 | 964.8 NM_002293.2 |
| 88.2 | 86.8 | 84.2 | 90.7 NM_018891.1 |
| 87.1 | 79 | 77.8 | 77.4 NM_018891.1 |
| 89.8 | 93.5 | 84.8 | 93.1 NM_005562.1 |
| 88.7 | 91.2 | 81.6 | 92 NM_006059.2 |
| 3718 | 3355.4 | 3237.4 | 1977.9 NM_005561.2 |
| 4513.8 | 5361.9 | 4923.3 | 4062.5 NM_013995.1 |
| 803.3 | 734.5 | 632 | 711.8 NM_002294.1 |
| 645.9 | 616.9 | 549.6 | 478.6 NM_002294.1 |
| 87.9 | 88.2 | 82.2 | 81.9 NM_014398.2 |
| 762.5 | 534.3 | 523.1 | 326.3 NM_006055.1 |
| 232.9 | 251.9 | 253.8 | 182.9 NM_018697.3 |
| 95.5 | 85.2 | 83.1 | 78.4 NM_198511.1 |
| 681.4 | 455.2 | 482.8 | 430.4 NM_015907.2 |
| 142.4 | 123.9 | 122.4 | 130.7 NM_014713.3 |
| 2718.2 | 1304.3 | 1113.5 | 904 NM_018407.4 |
| 1279 | 1298.6 | 1278.9 | 942.2 NM_006762.1 |
| 97.7 | 95.2 | 85.6 | 93.1 NM_004737.3 |
| 88.3 | 78.7 | 83.7 | 80.7 NM_004737.3 |
| 86.7 | 83.1 | 78.4 | 80 NM_133642.2 |
| 85.2 | 79.4 | 74.3 | 90.1 NM_015315.3 |
| 580.6 | 662.3 | 519.8 | 510.4 NM_033551.2 |

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| 98.1 | 98.5 | 95.3 | 96.6 NM_178043.1 |
| 203.6 | 236.4 | 243.1 | 237 NM_018078.2 |
| 98 | 97.1 | 93.5 | 92.9 NM_178043.1 |
| 461 | 264.1 | 262.9 | 211.8 NM_032239.2 |
| 123.3 | 135.7 | 115.1 | 103.3 NM_052879.3 |
| 204.9 | 202.8 | 155.7 | 145.2 NM_052879.3 |
| 862.1 | 881.9 | 816.8 | 660.8 NM_015155.1 |
| 162.1 | 130.4 | 146.8 | 140 NM_018357.2 |
| 140.8 | 128.5 | 125 | 130.1 NM_197958.1 |
| 1512.1 | 1597.3 | 1083.1 | 1401.5 NM_015454.1 |
| 1039.8 | 1109.8 | 755.1 | 561 NM_020117.8 |
| 257.9 | 274.2 | 227.8 | 177.7 NM_015340.3 |
| 352.4 | 300.8 | 314.8 | 215.6 NM_031206.2 |
| 4101.2 | 4401.7 | 4050.2 | 2256.7 NM_006148.1 |
| 87.2 | 89.9 | 85.6 | 97.5 NM_021267.2 |
| 130.8 | 100.5 | 96.4 | 98.7 NM_198207.1 |
| 94.9 | 87.2 | 79.3 | 88.7 NM_021267.2 |
| 438.3 | 383 | 271 | 240.8 NM_022075.3 |
| 647.7 | 576.4 | 517.4 | 406.2 NM_013384.3 |
| 88.8 | 85.6 | 80.1 | 83.3 NM_178842.2 |
| 100.8 | 95.5 | 95.3 | 99.1 NM_024552.1 |
| 196.3 | 206.2 | 205.5 | 162.9 NM_147190.1 |
| 3203.9 | 3977.9 | 3392.5 | 2645.9 NM_203463.1 |
| 148 | 168 | 156.2 | 135 NM_001014987.1 |
| 115.9 | 138.4 | 121.4 | 107.5 NM_001014988.1 |
| 94.7 | 89.8 | 78 | 92.9 NM_001014989.1 |
| 92.5 | 104.3 | 91.3 | 85.6 NM_014387.3 |
| 426.6 | 339.1 | 239.2 | 260.6 XR_000518.1 |
| 92.2 | 99.7 | 91.7 | 97.7 NR_002593.1 |
| 101.9 | 91.2 | 84.9 | 87.1 XR_001385.1 |
| 1415.7 | 1068.5 | 941.7 | 750.3 NM_032464.2 |
| 1235.2 | 730.5 | 631.8 | 636.1 NM_022040.2 |
| 268.7 | 175.2 | 177.4 | 149.6 NM_032464.2 |
| 107.5 | 92.9 | 85.3 | 88.1 NM_004690.2 |
| 103.2 | 131.7 | 143.3 | 110.5 NM_014572.1 |
| 108.9 | 109.4 | 107.8 | 101.9 NM_017773.2 |
| 94 | 95.4 | 94.2 | 89.8 NM_178834.2 |
| 85.4 | 80.2 | 80.9 | 77.5 NM_030915.1 |
| 114.9 | 93.4 | 83.9 | 101 NM_030915.1 |
| 94.4 | 93.8 | 86 | 82.7 NM_004139.2 |
| 309 | 200.2 | 186.7 | 151.3 NM_002296.2 |
| 1134.1 | 980.5 | 731.6 | 665.3 NM_002296.2 |
| 103.6 | 89.3 | 94.3 | 91.7 NM_194442.1 |
| 88.3 | 82.9 | 76.2 | 83 NM_006562.4 |
| 106.7 | 100.4 | 91.7 | 96.8 NM_001009812.1 |
| 93.8 | 91.7 | 80.6 | 96.6 NM_001031807.1 |
| 103.5 | 101.6 | 92.7 | 103.2 NM_001039768.2 |
| 106.6 | 99.5 | 104.4 | 98.5 NM_000229.1 |
| 94.5 | 88.2 | 86 | 89.3 NM_178348.1 |
| 93.8 | 94.4 | 93.4 | 89 NM_178349.1 |

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| 98.6 | 88 | 94.2 | 99.8 NM_178352.1 |
| 95.9 | 82 | 93.8 | 82.2 NM_178353.1 |
| 90.1 | 86.5 | 83.1 | 83.1 NM_178353.1 |
| 90.3 | 86.6 | 80.4 | 81.3 NM_178354.1 |
| 83.5 | 85.8 | 78.1 | 93.4 NM_178428.3 |
| 89.2 | 94 | 82.4 | 83.1 NM_014357.3 |
| 90.2 | 90.1 | 80.9 | 91.6 NM_178429.2 |
| 107.1 | 98.5 | 85 | 84.6 NM_178430.2 |
| 83.2 | 82.3 | 85.8 | 80.9 NM_178431.1 |
| 88.4 | 85 | 80.4 | 89.9 NM_178433.1 |
| 97.4 | 86 | 80.8 | 85.1 NM_178434.1 |
| 86.9 | 92.5 | 78.7 | 89 NM_032563.1 |
| 96.9 | 91.9 | 91.5 | 96.5 NM_178435.2 |
| 90.6 | 85.4 | 86.4 | 97.7 NM_178438.3 |
| 109.4 | 101.9 | 94.1 | 95.3 NM_001042771.1 |
| 96.1 | 96.7 | 95.9 | 92.3 NM_005356.3 |
| 95.2 | 94.5 | 90.1 | 102 NM_001042771.1 |
| 519.4 | 403 | 459.2 | 231 NM_016309.2 |
| 359.5 | 266.8 | 263.9 | 206.3 NM_001032391.1 |
| 258.5 | 200.7 | 217.4 | 175.8 NM_016309.2 |
| 697 | 663.4 | 490.1 | 530.4 NM_014793.3 |
| 100.7 | 92.4 | 92.1 | 96 NM_002297.2 |
| 87.2 | 89.1 | 82.3 | 84.2 NM_001001712.1 |
| 83.3 | 88.2 | 76.1 | 81.1 NM_178536.3 |
| 84 | 81.1 | 82 | 81.7 NM_005564.2 |
| 82.4 | 75.9 | 76.9 | 87.2 NM_198946.2 |
| 86.6 | 83.2 | 83.9 | 85.4 NM_178469.3 |
| 100.7 | 88.3 | 78.7 | 90.8 NM_001001676.1 |
| 133.3 | 152.7 | 152.1 | 168.8 NM_032440.1 |
| 78.1 | 78.8 | 71.5 | 79.6 NM_153686.4 |
| 12454.3 | 13280.1 | 12056.6 | 10373.6 NM_002298.2 |
| 115.4 | 132.3 | 131.1 | 129.1 NM_005565.3 |
| 92.2 | 90.9 | 82.8 | 89.5 NM_002299.2 |
| 109 | 101.4 | 96.1 | 101.6 NM_207338.1 |
| 95.8 | 92.6 | 94.1 | 88.2 NM_003893.3 |
| 87.6 | 76 | 87.5 | 81 NM_001290.2 |
| 111.9 | 103.4 | 92.9 | 89.8 NM_001080116.1 |
| 78.3 | 74.7 | 62.9 | 82.1 NM_007078.2 |
| 89.3 | 82.2 | 87.3 | 84.7 NM_001080116.1 |
| 12179.3 | 7623.8 | 5677.8 | 7789.7 NM_005566.1 |
| 90.7 | 101.3 | 91.1 | 84.6 NM_144972.3 |
| 84.1 | 77 | 82.5 | 81.7 NM_033195.1 |
| 2306.1 | 1412.1 | 1005.9 | 1213.1 NM_002300.3 |
| 93.8 | 90.8 | 93.2 | 97.6 NM_017448.1 |
| 93.2 | 83.7 | 78.9 | 82.9 NM_002301.2 |
| 83.7 | 87.2 | 87.1 | 86.4 NM_153486.2 |
| 104.6 | 117.4 | 107.9 | 117.6 NM_194436.1 |
| 1278.3 | 1594.4 | 1738.1 | 953.9 NM_000527.2 |
| 85.2 | 88.4 | 92.4 | 98.7 NM_001010978.2 |
| 95.8 | 92 | 86.3 | 94.1 NM_001013693.1 |

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| 100.5 | 104.7 | 90.2 | 93.7 NM_174902.2 |
| 125.2 | 114.1 | 117.3 | 124.9 NM_015627.1 |
| 95.6 | 87 | 92.4 | 97.2 NM_012317.2 |
| 447.6 | 373.2 | 274.4 | 392.2 NM_032287.2 |
| 127 | 163.7 | 151.7 | 147.4 NM_052971.2 |
| 112.6 | 108.4 | 115.3 | 98.9 NM_007015.2 |
| 88.4 | 94.1 | 98.7 | 88.1 NM_002302.2 |
| 147.3 | 82.6 | 86.6 | 96.9 NM_016269.2 |
| 90.8 | 93.9 | 84.9 | 86 NM_020997.2 |
| 87 | 91.4 | 87.8 | 88.4 NM_003240.2 |
| 91.5 | 88.5 | 93.8 | 89.6 NM_001010857.1 |
| 90.6 | 91.7 | 83.6 | 77.7 NM_001001552.3 |
| 405.7 | 414.7 | 462.7 | 301.3 NM_181336.2 |
| 826 | 728.3 | 648.3 | 605.2 NM_014319.3 |
| 84.9 | 79.4 | 76.9 | 85.5 NM_018655.2 |
| 100.1 | 98.5 | 101.5 | 88 NM_024316.1 |
| 254.1 | 307.5 | 282.9 | 253.3 NM_024298.2 |
| 110.5 | 103.2 | 106.7 | 119.5 NM_052925.1 |
| 100.6 | 105.3 | 90.1 | 92.3 NM_198988.1 |
| 117.4 | 106.2 | 108.1 | 100.9 NM_138792.2 |
| 131.9 | 155.6 | 219.8 | 179.3 NM_000230.1 |
| 87.1 | 78.6 | 69 | 89.6 NM_001003680.1 |
| 124.8 | 134 | 138.9 | 132.7 NM_001003679.1 |
| 95.4 | 95.9 | 96.7 | 97.9 NM_002303.3 |
| 831.6 | 1004.9 | 838.9 | 602.9 NM_022356.2 |
| 99.2 | 100.5 | 87.1 | 86.9 NM_018192.2 |
| 83.9 | 83.5 | 89.5 | 81.4 NM_014262.2 |
| 864.1 | 767.3 | 844.8 | 621.8 NM_017526.2 |
| 709.4 | 503.6 | 429 | 306.1 NM_015344.1 |
| 158.4 | 122.7 | 121.1 | 101.6 NM_012318.1 |
| 109.6 | 102.7 | 90.7 | 98.2 NM_144652.1 |
| 128.9 | 149.3 | 147.9 | 133.4 NM_015416.3 |
| 360.2 | 504.5 | 491.6 | 363.7 NM_001024668.1 |
| 83.9 | 103 | 82.2 | 90.5 NM_001040168.1 |
| 86.9 | 109.1 | 96.6 | 103.3 NM_001040168.1 |
| 320.7 | 393.4 | 336.5 | 239.6 NM_002304.1 |
| 17363.3 | 11728.5 | 12635.9 | 7972.7 NM_002305.2 |
| 109.9 | 99.4 | 93.5 | 92.4 NM_033101.2 |
| 82.3 | 81.9 | 88.5 | 88.4 NM_013268.2 |
| 98.2 | 98 | 96.2 | 90.4 NM_020129.2 |
| 81.3 | 88.6 | 76.5 | 92 NM_203471.1 |
| 81.8 | 90.6 | 101.4 | 94 NM_006498.2 |
| 116.1 | 167 | 164.3 | 140.5 NM_002306.1 |
| 89.9 | 101.3 | 89.6 | 94.3 NM_005567.2 |
| 97.6 | 89.8 | 99.9 | 96.4 NM_006149.2 |
| 88.6 | 88 | 78.9 | 86.6 NM_002307.1 |
| 104.2 | 93.4 | 82.6 | 84.4 NM_201545.1 |
| 411.5 | 275.1 | 254 | 263.7 NM_006499.3 |
| 82 | 84.6 | 78.6 | 84.6 NM_201544.1 |
| 729.5 | 598.7 | 566.6 | 471.2 NM_201545.1 |

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| 490.6 | 515.8 | 409.7 | 478 NM_009587.2 |
| 229.7 | 200.6 | 182.9 | 176.9 NM_009587.2 |
| 85.2 | 83.1 | 80.6 | 81.3 NM_005097.1 |
| 86.8 | 93.9 | 79.6 | 80.9 NM_018176.2 |
| 80.8 | 79.2 | 84.9 | 86.2 NM_139278.2 |
| 84.6 | 85 | 80.4 | 89.3 NM_139284.1 |
| 83 | 86.2 | 85.3 | 87.1 NM_180990.2 |
| 89.9 | 83.2 | 77.6 | 92.5 NM_001008530.1 |
| 100.2 | 93.1 | 88.3 | 97.5 NM_001008530.1 |
| 105.1 | 93.7 | 96.1 | 94.7 NM_005606.5 |
| 346.1 | 364.7 | 294.2 | 337.5 NM_032484.3 |
| 113.4 | 124.8 | 125.2 | 115.9 NM_024119.1 |
| 129 | 132.7 | 119.1 | 112.5 NM_018490.1 |
| 96.3 | 87.2 | 97.6 | 89.9 NM_003667.2 |
| 84 | 82.4 | 74.3 | 79.2 NM_021636.2 |
| 85.6 | 87.5 | 86.6 | 83.4 NM_001017403.1 |
| 74.1 | 85.2 | 78.7 | 79.2 NM_001017404.1 |
| 79.3 | 87.1 | 84 | 80 NM_001017403.1 |
| 134 | 104.3 | 94.5 | 96.3 NM_021634.1 |
| 78.5 | 85.4 | 82.2 | 95.9 NM_130806.2 |
| 528.1 | 585.5 | 527.9 | 446.9 NM_006893.2 |
| 103.2 | 86.2 | 81.6 | 87.1 NM_000894.2 |
| 91.9 | 92 | 86.4 | 89.7 NM_000233.1 |
| 118.8 | 106.3 | 94.8 | 91.3 NM_005780.1 |
| 85.2 | 88.2 | 84.7 | 89.5 NM_178175.2 |
| 129.9 | 143 | 144.7 | 135.8 NM_005779.1 |
| 101.2 | 105.1 | 96.8 | 97.8 NM_199000.1 |
| 81.1 | 81.8 | 79.5 | 81 NM_182548.2 |
| 97.9 | 93 | 98.5 | 88.2 NM_022126.2 |
| 98.2 | 103.8 | 96.1 | 85.2 NM_005568.2 |
| 1089.8 | 416 | 402.8 | 375.9 NM_004789.3 |
| 90.1 | 92.2 | 90.4 | 90.8 NM_014564.2 |
| 85.7 | 100.4 | 91.9 | 90.1 NM_014564.2 |
| 98.8 | 92.9 | 85.5 | 94.5 NM_178138.2 |
| 83 | 81.1 | 70.6 | 77.7 NM_014564.2 |
| 98.6 | 94.9 | 86.2 | 88.9 NM_178138.2 |
| 102.5 | 101.9 | 93.2 | 101.5 NM_033343.2 |
| 94.8 | 95.9 | 89 | 87.4 NM_022363.2 |
| 113.1 | 114.1 | 110 | 108.4 NM_014368.2 |
| 85.8 | 76.2 | 84.2 | 85 NM_199160.1 |
| 97.4 | 86.4 | 83.5 | 76.1 NM_001001933.1 |
| 77.7 | 76.6 | 73.8 | 83.5 NM_001014434.1 |
| 96.8 | 84.9 | 82.1 | 90 NM_020204.2 |
| 121.9 | 126.3 | 108.8 | 103 NM_194451.1 |
| 335.9 | 231.1 | 212.8 | 222.9 NM_006859.2 |
| 93.7 | 94.6 | 90.5 | 85.7 NM_002309.2 |
| 93.2 | 91.6 | 86.5 | 80.1 NM_002310.3 |
| 482.9 | 488.7 | 463.5 | 378.7 NM_000234.1 |
| 84 | 80.5 | 72.3 | 84 NM_002311.3 |
| 124.4 | 113.2 | 114.7 | 90.4 NM_002311.3 |

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| 229.1 | 238.2 | 229.7 | 160.4 | NM_013975.2 |
| 91.3 | 83.5 | 94.1 | 96.8 | NM_002312.3 |
| 95.6 | 91.4 | 80.1 | 88 | NM_002312.3 |
| 85.3 | 83.6 | 88.1 | 81.1 | NM_006863.1 |
| 345.6 | 493.5 | 519.6 | 228.7 | NM_006866.1 |
| 128.9 | 121.3 | 123.5 | 113 | NM_006865.2 |
| 87.2 | 89.6 | 85.1 | 84.3 | NM_006865.2 |
| 91.2 | 77.3 | 73.8 | 77.2 | NM_012276.3 |
| 83.2 | 75.5 | 78.5 | 81.3 | NM_181986.1 |
| 87.9 | 126 | 119.9 | 116.2 | NM_021250.2 |
| 97.8 | 92.1 | 83.9 | 87.5 | NM_021250.2 |
| 90.6 | 86.8 | 84.4 | 91.8 | NM_024318.2 |
| 91.4 | 94.3 | 86 | 88.3 | NM_006669.2 |
| 2152.8 | 2760.3 | 4046.8 | 2192.6 | NM_001081637.1 |
| 161.6 | 210.1 | 192.8 | 182.9 | NM_001080978.1 |
| 80.5 | 112.5 | 110.8 | 91.4 | NM_006864.1 |
| 9313.4 | 14863.1 | 18860.1 | 11266.5 | NM_006864.1 |
| 569.7 | 261.4 | 248.3 | 162.5 | NM_001081438.1 |
| 85.4 | 91.5 | 77.2 | 88.5 | NM_006840.2 |
| 95.1 | 94.9 | 100.9 | 88.9 | NM_006840.2 |
| 87.2 | 89.4 | 78 | 72.4 | NM_030657.2 |
| 193.8 | 259.8 | 188.4 | 262.2 | NM_016357.3 |
| 94.3 | 82.2 | 81.9 | 84.1 | NM_014240.1 |
| 91.5 | 84.7 | 86.3 | 88.7 | NM_030576.2 |
| 337.4 | 359 | 369.2 | 245.5 | NM_017806.1 |
| 86.3 | 92.6 | 105.3 | 92.9 | NM_016735.1 |
| 104.3 | 95.2 | 90.2 | 100.9 | NM_002314.2 |
| 127.6 | 117.9 | 121.6 | 113 | NM_016733.2 |
| 121.4 | 95.6 | 98.3 | 95.6 | NM_001031801.1 |
| 137.1 | 113.9 | 109.1 | 105.6 | NM_001031801.1 |
| 93.6 | 106.8 | 105.8 | 84.6 | NM_005569.3 |
| 260.7 | 295.2 | 248.9 | 222.7 | NM_004987.3 |
| 91.7 | 83.3 | 90.2 | 81.7 | NM_004987.3 |
| 89.6 | 90.5 | 90.9 | 83.8 | NM_017980.2 |
| 93.6 | 95.6 | 81.6 | 86.8 | NM_033514.1 |
| 158.4 | 150.2 | 144.6 | 135.4 | NM_025187.3 |
| 82.2 | 83.1 | 76.4 | 83.1 | NM_024674.3 |
| 86.7 | 82.1 | 80.8 | 81.7 | NM_001004317.2 |
| 213.1 | 269.6 | 198.1 | 202.6 | NM_004664.2 |
| 156.4 | 150.7 | 133.8 | 142.2 | NM_022165.2 |
| 111.4 | 100.4 | 97.8 | 108.2 | NM_018362.2 |
| 499.3 | 342.4 | 234 | 338.8 | NM_173083.2 |
| 98.8 | 83.6 | 94.1 | 92.6 | NM_001080535.1 |
| 113.6 | 105.7 | 103.7 | 108.9 | NM_001004432.1 |
| 108.2 | 108.8 | 107.8 | 101.6 | NM_001040614.1 |
| 92.1 | 98.9 | 94.2 | 96.2 | NM_181739.1 |
| 1556.8 | 1052 | 1004.7 | 918 | NM_000235.2 |
| 79.4 | 73.6 | 83.9 | 85.5 | NM_000236.1 |
| 102.6 | 109.7 | 91.2 | 93.3 | NM_005357.2 |
| 114.3 | 115.8 | 109.6 | 101.1 | NM_004190.1 |

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| 88 | 93.3 | 84.9 | 90.5 NM_006033.2 |
| 84.3 | 92.4 | 98.5 | 91.5 NM_139248.2 |
| 91.2 | 78.8 | 76.7 | 75.5 NM_198996.2 |
| 96.3 | 97.1 | 101.7 | 94.3 NM_001080518.1 |
| 90.3 | 97 | 107.3 | 87.1 NM_001010939.1 |
| 290.5 | 319.5 | 271.1 | 279.5 NM_015929.2 |
| 126.5 | 120.8 | 107 | 104.6 NM_145196.1 |
| 3728.5 | 2713.9 | 1837.2 | 2031.7 NM_004862.2 |
| 105.1 | 93.5 | 95 | 92.9 NM_153234.3 |
| 204.4 | 169.4 | 158.1 | 122.3 NM_153713.1 |
| 921.5 | 1375.2 | 1362 | 906.2 NM_014647.1 |
| 191.8 | 203.5 | 227.6 | 160.7 NM_004140.3 |
| 100.6 | 97.5 | 100.5 | 116.3 NM_001015002.1 |
| 119 | 106.2 | 99.6 | 101.6 NM_005570.2 |
| 88.8 | 104.7 | 94.8 | 79.9 NM_021819.2 |
| 154 | 135.8 | 135.6 | 122.7 NM_006816.1 |
| 342.1 | 251.1 | 249.3 | 178.9 NM_030805.1 |
| 621.1 | 570.1 | 438.2 | 389.1 NM_022458.2 |
| 100 | 101.5 | 87.2 | 96.1 NM_018113.1 |
| 1029.3 | 1278.5 | 1266.4 | 926.6 NM_018368.2 |
| 95.6 | 101.9 | 99.5 | 101.1 NM_001007527.1 |
| 104.9 | 86.7 | 78.6 | 85.5 NM_014583.2 |
| 99.1 | 94.3 | 82.8 | 89.6 NM_033029.1 |
| 720.6 | 674.7 | 560.6 | 447.4 NM_005572.2 |
| 1634.1 | 1412.2 | 1187.5 | 695.3 NM_005572.2 |
| 796.7 | 1260.1 | 905.3 | 744.2 NM_005573.2 |
| 2259.5 | 2061.1 | 1842.4 | 1110.8 NM_032737.2 |
| 82.5 | 86.8 | 69.9 | 76.4 NM_002315.1 |
| 687.6 | 458.4 | 561.9 | 456.4 NM_005574.2 |
| 97.1 | 87.4 | 89.9 | 96 NM_018640.3 |
| 102.9 | 95.8 | 97.5 | 103.5 NM_001001395.1 |
| 80.1 | 78.1 | 76.3 | 84.7 NM_018640.3 |
| 1571.8 | 1794.4 | 1621.5 | 2224.6 NM_006769.2 |
| 110.8 | 105.9 | 95.4 | 107.9 NM_006150.3 |
| 101 | 100 | 95.6 | 97.9 NM_005358.3 |
| 80.3 | 94.2 | 85.3 | 87.3 NM_012134.1 |
| 452 | 655.1 | 855.5 | 905.1 NM_198271.2 |
| 87.1 | 88.4 | 84.8 | 88.6 NM_014916.2 |
| 153.5 | 115 | 141.4 | 111.5 XM_936372.1 |
| 84.9 | 82.1 | 82.2 | 76.9 NM_177398.2 |
| 82.1 | 82.3 | 80.5 | 83.6 NM_177398.2 |
| 98.8 | 84.8 | 89.6 | 96.2 NM_001033507.1 |
| 93.3 | 76 | 87.4 | 84.6 NM_177399.2 |
| 98.5 | 96.2 | 82.9 | 93.1 NM_002316.1 |
| 904.9 | 1046.9 | 814.4 | 919.4 NM_005475.1 |
| 110 | 98.9 | 102.5 | 108.5 NM_005575.2 |
| 228.6 | 262.5 | 239.7 | 184.4 NM_005575.2 |
| 85 | 84.7 | 92.4 | 96.4 NM_032622.1 |
| 134.1 | 138.6 | 112.7 | 136.9 NM_153371.2 |
| 118.1 | 108.3 | 116.4 | 109.6 NM_138411.1 |

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| 93.3 | 103.7 | 105.4 | 100.7 NM_207312.1 |
| 115.3 | 106.8 | 110 | 104.3 NM_138414.1 |
| 208.2 | 213 | 188.6 | 153.9 XM_941168.1 |
| 178.1 | 143.8 | 123.6 | 130.3 NM_138422.1 |
| 594.6 | 387.8 | 337.7 | 258.9 NM_138781.2 |
| 197.3 | 191.8 | 191.7 | 169.9 NM_138428.2 |
| 227.5 | 219 | 172.7 | 155.5 NM_138439.1 |
| 199.8 | 133.4 | 139 | 134.8 NM_138442.2 |
| 277 | 266.7 | 264.1 | 226 NM_138458.1 |
| 191.1 | 247 | 194.8 | 181.9 NM_198147.1 |
| 639.2 | 656.3 | 575.6 | 450.6 NM_138787.2 |
| 79.2 | 80.4 | 79.2 | 82.7 NM_138789.2 |
| 79.6 | 78 | 79.6 | 92.3 NM_145248.2 |
| 148.9 | 211.7 | 197 | 266.5 NM_001013619.1 |
| 81 | 81.4 | 79.3 | 78.6 NM_001010845.1 |
| 77.1 | 80.3 | 77 | 78 NM_145252.1 |
| 921.1 | 685.6 | 677.1 | 629.7 NM_194280.2 |
| 203.2 | 198.8 | 181 | 159.4 NM_001080510.2 |
| 188.2 | 141.2 | 125.3 | 147 NM_001080510.2 |
| 201 | 182.6 | 175 | 152.5 XM_940962.1 |
| 92.6 | 84.8 | 82.6 | 86 NM_213597.1 |
| 94.1 | 85.1 | 89.7 | 88.4 NM_207313.1 |
| 499.7 | 363.6 | 301.1 | 265.2 NM_001031665.1 |
| 88.8 | 83.4 | 86.3 | 91 NM_001080503.1 |
| 82.1 | 84.2 | 78.6 | 85 NM_145807.1 |
| 1119.8 | 1064.1 | 943 | 499.7 NM_001002836.1 |
| 72.3 | 75.1 | 72.8 | 76.7 NM_173479.2 |
| 134.4 | 89.6 | 113.2 | 104.2 NM_173480.1 |
| 114.2 | 102.8 | 98.3 | 103.2 NM_001034966.1 |
| 86.9 | 85.3 | 82.7 | 93.9 NM_138796.2 |
| 187.9 | 158.3 | 164.1 | 129.7 NM_139016.2 |
| 185.8 | 178.7 | 181.9 | 147.1 NM_173793.3 |
| 380.5 | 326.1 | 266.5 | 252.2 NM_138797.1 |
| 202.4 | 215.5 | 197 | 179.2 NM_152994.2 |
| 122.9 | 114.4 | 106.5 | 120.6 NM_174898.1 |
| 786 | 957.1 | 939.4 | 885.9 NM_138798.1 |
| 123.7 | 113.6 | 99 | 97 NM_207315.1 |
| 210.2 | 254.8 | 234.3 | 197.8 NM_001009993.1 |
| 204.9 | 179.2 | 136.9 | 236.7 NM_001017927.1 |
| 89.5 | 92.4 | 82.7 | 92.6 NM_177964.3 |
| 97.1 | 92.1 | 83.9 | 94.5 NM_138803.2 |
| 108.3 | 95.2 | 91.1 | 86.7 NM_138804.2 |
| 77.2 | 86.4 | 78.9 | 78.6 NM_001080440.1 |
| 91.6 | 77.4 | 85.9 | 84 XM_935351.1 |
| 126 | 105.5 | 93.7 | 100.4 XM_934203.1 |
| 134.2 | 110.6 | 112.9 | 122.6 NM_173487.1 |
| 130.8 | 104.1 | 94.3 | 105 NM_178833.3 |
| 369.2 | 442.9 | 375 | 325 NM_130809.2 |
| 93.2 | 92.5 | 91.1 | 92.6 NM_199133.1 |
| 114.5 | 187.7 | 161.4 | 143.6 NM_138809.2 |

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| 7050.5 | 4706.4 | 5557.1 | 3890.5 NR_000030.1 |
| 86.9 | 86.2 | 85.5 | 88.1 NM_001008270.1 |
| 91.6 | 86.9 | 88.2 | 91.4 NM_145268.2 |
| 87.4 | 75.7 | 81.2 | 83.5 NM_174959.1 |
| 68 | 69.6 | 79.4 | 80.6 NM_173848.3 |
| 91.4 | 96.1 | 87.5 | 96.4 NM_001010940.1 |
| 438.6 | 337.2 | 317.2 | 316.2 NM_001012968.1 |
| 75.3 | 75 | 72.5 | 77.3 NM_001025447.1 |
| 205.9 | 140.2 | 139.9 | 127 NR_002197.1 |
| 108.2 | 92.6 | 105.5 | 110.5 NM_001080441.1 |
| 94.9 | 85.5 | 85.7 | 92.3 NM_138471.1 |
| 449.2 | 365 | 321.7 | 216.4 NM_181708.1 |
| 491.6 | 406.6 | 376.3 | 392.6 NM_001001660.1 |
| 81.7 | 83.5 | 93.5 | 84.9 NM_001080825.1 |
| 103.3 | 109.3 | 108.7 | 109.8 XM_084852.11 |
| 83.4 | 76.2 | 79.7 | 79.5 NM_182507.1 |
| 89.2 | 82.1 | 77.9 | 87.9 NM_182507.1 |
| 95.5 | 96 | 94.5 | 87.5 NM_001011724.1 |
| 76.7 | 74.8 | 80 | 77.4 NM_001011724.1 |
| 90.6 | 93.9 | 92 | 92.9 NM_001080442.1 |
| 81.2 | 80.5 | 71 | 77.3 NM_145270.1 |
| 91.6 | 86 | 90 | 93.7 NM_139170.2 |
| 87.1 | 90 | 79.7 | 82.8 NM_001025448.1 |
| 94.5 | 99.1 | 98.3 | 97.8 NM_001080443.1 |
| 101.2 | 110.5 | 98.6 | 106.3 NM_001080443.1 |
| 133 | 113.7 | 140 | 99.6 NM_203374.1 |
| 116.9 | 106.3 | 98.2 | 90.6 NM_138479.2 |
| 86.6 | 85.3 | 98.5 | 99.3 NM_001024601.2 |
| 94.3 | 89.4 | 85 | 85.3 NM_001010976.1 |
| 106.7 | 98.1 | 92.4 | 105.4 NM_001080444.1 |
| 219.7 | 167.4 | 166.8 | 143.4 NM_001017964.1 |
| 87.3 | 86.3 | 86.7 | 84.6 NM_001010859.1 |
| 89.7 | 94.8 | 84.2 | 74.7 NM_001008917.1 |
| 170.2 | 165 | 160.4 | 150.3 NM_207327.4 |
| 97.8 | 90.5 | 94.2 | 85 NM_001008917.1 |
| 105.2 | 97.7 | 100.6 | 93.1 NM_207328.2 |
| 82.1 | 88.9 | 79.7 | 82.2 NM_001077637.1 |
| 82.8 | 81.7 | 87.5 | 82.4 NM_001033657.1 |
| 104.8 | 134 | 120.3 | 107.3 NM_194289.1 |
| 109.1 | 103.8 | 81.6 | 88.8 NM_178835.2 |
| 112.6 | 118.5 | 103 | 111.2 NM_001080505.1 |
| 90.2 | 91.7 | 76.4 | 77.4 NR_002228.1 |
| 208.4 | 263.2 | 273.7 | 312.6 NM_153607.1 |
| 113.8 | 119.6 | 104.8 | 98.2 NM_145282.2 |
| 145.1 | 124.6 | 111.3 | 132.3 NM_203406.1 |
| 81.1 | 79.7 | 79.3 | 77.8 NM_001024607.1 |
| 94.6 | 81.1 | 82.8 | 80.1 NM_001029866.1 |
| 215.7 | 197.2 | 182.6 | 166.9 NM_001031744.1 |
| 88.3 | 90.2 | 85.1 | 94.4 NM_182829.1 |
| 136.6 | 132.7 | 116.6 | 110.3 NM_182829.1 |

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| 103.8 | 95.6 | 100.8 | 93.9 NM_001029857.2 |
| 90.4 | 95.4 | 86.7 | 93.7 NM_001025265.1 |
| 107.4 | 98.8 | 89.6 | 85.5 NM_203402.1 |
| 92.1 | 89 | 80.1 | 85.8 NM_139174.2 |
| 75.9 | 91 | 81.4 | 88.3 NM_001034841.1 |
| 100.8 | 99.6 | 77.8 | 76.4 NM_178126.2 |
| 97 | 90.8 | 89.4 | 92.2 NM_001005851.1 |
| 86.4 | 88.1 | 75.3 | 89.7 NR_001279.1 |
| 96.5 | 85.1 | 83.2 | 93.4 NM_001080447.1 |
| 90.5 | 99.2 | 84 | 81.8 NM_199280.1 |
| 101.9 | 103.4 | 107.5 | 105.4 XR_000552.1 |
| 572.3 | 459.1 | 448.8 | 394.1 NM_176814.3 |
| 97.6 | 85.6 | 77.9 | 90.8 NM_198275.1 |
| 113.2 | 105.6 | 92.2 | 94.6 NM_207337.1 |
| 135.8 | 155 | 138.5 | 198 NM_173542.2 |
| 74.5 | 82.3 | 82.1 | 73.6 NM_001010977.1 |
| 90.6 | 100.1 | 82.2 | 87.8 NM_001014830.1 |
| 240.6 | 191.1 | 229.5 | 150.2 NM_174917.1 |
| 331.5 | 229.1 | 266.1 | 161.2 NM_145294.3 |
| 107.7 | 84.9 | 82.5 | 83.8 NM_001007125.1 |
| 111.1 | 99.3 | 109.3 | 112.8 NM_001017981.1 |
| 93.5 | 95.6 | 89.8 | 96.5 NM_145300.1 |
| 103.2 | 99.7 | 86.9 | 84.9 NM_001015050.1 |
| 126.7 | 126.5 | 116.6 | 127.2 NM_178836.2 |
| 141.9 | 110 | 100.6 | 86.1 NM_174919.2 |
| 87.4 | 88.3 | 89.5 | 89.7 NM_001013624.1 |
| 95.3 | 89.1 | 80 | 95.1 XM_942296.1 |
| 103.8 | 103.8 | 100.4 | 100.8 NM_001076680.1 |
| 213.3 | 145.7 | 117.8 | 142.9 NM_001008393.1 |
| 141.6 | 130 | 155.7 | 130.3 NM_001079529.2 |
| 94.2 | 101 | 89.2 | 98.2 NM_145303.1 |
| 98.2 | 85.8 | 88.5 | 91.8 XM_114621.5 |
| 88.7 | 91.2 | 83.1 | 86.3 NM_001017978.1 |
| 1754.5 | 1391.6 | 1432.2 | 877.2 NM_001017980.1 |
| 144.2 | 120.7 | 127.5 | 121.8 NM_174925.1 |
| 956.9 | 612.1 | 593.6 | 479.8 NM_001080546.1 |
| 92 | 77.3 | 84.8 | 86.1 XR_000920.1 |
| 89.4 | 84.3 | 81 | 90.1 NR_002793.1 |
| 93.8 | 89.8 | 90.9 | 86.2 NR_003268.1 |
| 89.1 | 83.8 | 79.2 | 84 NM_203422.1 |
| 99.6 | 88.6 | 91.7 | 96.2 NM_203422.1 |
| 430.2 | 374.5 | 292.9 | 313.3 NM_174928.1 |
| 104.2 | 105 | 102.4 | 90.3 NM_194299.1 |
| 523.4 | 549.3 | 533.4 | 282.1 NM_139179.1 |
| 82.5 | 74.2 | 84.9 | 89.2 NM_173565.1 |
| 99.1 | 96.3 | 94.7 | 93.8 NM_173565.1 |
| 81 | 91.4 | 88.9 | 80.5 NM_198151.1 |
| 101.5 | 105.8 | 99.9 | 114.1 NM_198151.1 |
| 87 | 89 | 82 | 98.6 NM_198151.1 |
| 95.8 | 82.2 | 87.9 | 88.1 NM_203397.1 |

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| 98.3 | 87.6 | 85.7 | 87.2 NM_001025454.1 |
| 94.5 | 94.4 | 94.2 | 94.6 NR_001286.1 |
| 92.3 | 84.8 | 90.9 | 92.9 NR_001288.1 |
| 85.1 | 87.6 | 87.5 | 83.5 XM_929824.1 |
| 86 | 82.2 | 82.7 | 81.7 NM_001037225.1 |
| 82.8 | 87.6 | 87.7 | 92.1 NM_182556.1 |
| 89.1 | 80.4 | 81.1 | 85.2 NM_001033658.1 |
| 96.2 | 94.6 | 89.4 | 85.5 NM_001033658.1 |
| 102.6 | 101 | 97 | 93.5 NM_001001873.2 |
| 429.1 | 313.6 | 292.7 | 267.8 NM_001029859.1 |
| 448.6 | 360.6 | 326.7 | 350.8 NR_002803.1 |
| 100.6 | 94.9 | 104.2 | 96.8 NM_207344.1 |
| 94.5 | 94.3 | 99.6 | 89.7 NM_001025457.1 |
| 97 | 92.9 | 87 | 87.3 NM_198849.2 |
| 305.4 | 439.6 | 343.4 | 375.5 NM_181785.1 |
| 80.9 | 90.2 | 78.5 | 85.5 NM_001012706.1 |
| 82.2 | 77.6 | 81.9 | 84.9 NM_001042367.1 |
| 82.3 | 77.6 | 79.2 | 81.9 NM_001024682.1 |
| 198 | 157.1 | 154.2 | 153.4 NM_001042371.2 |
| 116.8 | 109.9 | 106.8 | 112 NM_001012731.1 |
| 884.1 | 615.3 | 590.1 | 509.3 NM_001010878.1 |
| 88 | 91.7 | 84.4 | 91.4 NM_001025459.1 |
| 114.6 | 112.4 | 111.3 | 111.6 NM_001042685.1 |
| 89 | 80.1 | 72.9 | 78.2 NM_001037331.1 |
| 89.3 | 93.7 | 84.3 | 91.5 NM_001010880.1 |
| 87.8 | 75.5 | 77.4 | 82.1 NM_175063.3 |
| 112.1 | 104 | 90.8 | 101.3 NM_175063.3 |
| 114.5 | 103.9 | 98.8 | 113.4 NR_002938.1 |
| 100.1 | 79.2 | 86.9 | 88.8 NM_001025591.1 |
| 86.2 | 91.4 | 77.7 | 87.1 NM_001007525.1 |
| 85.1 | 90.3 | 82.9 | 81.8 NR_003128.1 |
| 87.2 | 87.7 | 80.8 | 81.9 NM_207349.1 |
| 90.7 | 79.2 | 78.4 | 82.1 NM_001025463.1 |
| 84.2 | 175.3 | 220.8 | 169.3 NM_001004305.1 |
| 85.6 | 83.2 | 86.7 | 90.8 NM_203375.1 |
| 82.5 | 90.3 | 84.4 | 85.9 NM_198482.1 |
| 115.6 | 97.9 | 92.4 | 101.9 NM_001002919.1 |
| 93.1 | 101 | 87.4 | 99.3 NM_001037228.1 |
| 520.8 | 446.6 | 443.9 | 393.3 NM_001012626.1 |
| 363.8 | 392.8 | 409.4 | 261 NM_001033575.1 |
| 92.3 | 93.7 | 86.1 | 93.6 NR_002941.1 |
| 117.9 | 108.3 | 98.6 | 87.6 NM_001025266.1 |
| 116.6 | 116.5 | 99 | 99.8 NM_001029955.1 |
| 120.3 | 106.2 | 109.1 | 95.5 NR_002805.2 |
| 132.4 | 115.8 | 123.1 | 114.8 NM_194439.1 |
| 83.7 | 86.7 | 89.5 | 86.8 NM_198281.1 |
| 89.2 | 93.8 | 99.9 | 104.3 XM_945291.1 |
| 511.1 | 541.1 | 438.3 | 425.5 NM_175921.4 |
| 87.4 | 82.1 | 78.1 | 91.3 NM_001037231.1 |
| 140.3 | 150.9 | 212.8 | 125.8 NM_181722.2 |

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| 357.4 | 448.7 | 541.8 | 497.3 NM_213603.2 |
| 95.2 | 91.7 | 96.6 | 95.2 NM_001013258.1 |
| 272.9 | 306.5 | 348.4 | 325.5 NM_001013258.1 |
| 83 | 79 | 80.2 | 76.5 NM_001024610.1 |
| 75.3 | 85.5 | 78.1 | 80.6 NM_001013626.1 |
| 101.3 | 82.6 | 95.4 | 97.1 NM_001031834.1 |
| 90.4 | 83.8 | 74.9 | 78.6 NM_178172.2 |
| 94.5 | 87 | 92 | 98.2 NM_178172.2 |
| 108.5 | 138.7 | 126.5 | 136.9 NR_002809.1 |
| 2811.1 | 1960.8 | 2041.5 | 862.6 NM_001005920.2 |
| 1341.7 | 1210.2 | 1268.8 | 679.7 NM_001039842.1 |
| 180.5 | 169 | 154.6 | 136.4 XM_941327.1 |
| 86.1 | 89.3 | 82.4 | 82.1 NR_001443.1 |
| 1148.7 | 784 | 795.2 | 560.6 NM_001012643.2 |
| 95.6 | 91.4 | 94.4 | 99.4 NM_001003808.1 |
| 115.7 | 107.9 | 96.7 | 116.9 NM_001001664.1 |
| 78.3 | 79.8 | 82.6 | 79.3 NM_001024611.1 |
| 96.4 | 95.4 | 90.8 | 89.6 NM_182761.1 |
| 91.8 | 102 | 87.5 | 102.8 NM_001012418.1 |
| 90.4 | 84.8 | 81.9 | 83.8 XM_294209.6 |
| 90.6 | 102.5 | 84.4 | 83.9 XM_936425.1 |
| 111.8 | 104.9 | 87 | 99.5 NM_001013627.1 |
| 92 | 87.3 | 73 | 91 NM_001013627.1 |
| 84.4 | 89.8 | 89.7 | 81.6 NM_001012977.1 |
| 110.9 | 104.3 | 114 | 119.1 NM_001013628.1 |
| 90.8 | 82.7 | 85.4 | 97.8 NM_203407.1 |
| 90.9 | 89 | 84.3 | 83.6 NM_001013629.1 |
| 98.9 | 96.1 | 81.1 | 92.7 NM_001001414.1 |
| 93.2 | 84 | 90.7 | 96.3 NM_001013630.1 |
| 101.3 | 91.7 | 81.5 | 90.6 NM_001013632.2 |
| 102.5 | 102.9 | 94.1 | 100.4 XM_941536.1 |
| 91.5 | 94 | 89.3 | 97.2 NM_001080459.1 |
| 87.4 | 83 | 92 | 95.9 NM_001080460.1 |
| 100.2 | 98.5 | 82 | 81.9 NM_001012982.2 |
| 89.3 | 86.5 | 93.1 | 99.2 NM_001012982.2 |
| 72.7 | 88.4 | 77.9 | 82.2 NM_001076781.1 |
| 95.3 | 89.1 | 83 | 92.1 NM_001012454.1 |
| 98.5 | 87.5 | 85.2 | 99.1 NM_182489.1 |
| 101 | 102.8 | 94.9 | 98.4 NM_001018116.1 |
| 84.4 | 75.7 | 78.3 | 84.3 NM_001013403.1 |
| 83.3 | 77.5 | 82.2 | 84.7 NM_182619.1 |
| 99.5 | 89.3 | 91.9 | 90 NM_001012759.1 |
| 126.8 | 115.8 | 113.3 | 109 XM_939188.1 |
| 88.6 | 95.5 | 73.2 | 74.8 NM_001012762.1 |
| 262 | 162.1 | 171.9 | 180.1 NM_207368.1 |
| 104.5 | 150.3 | 176 | 140.3 NM_198851.1 |
| 119 | 101.8 | 90 | 94.7 NM_182631.1 |
| 175 | 200.6 | 168.3 | 181.5 NM_198284.1 |
| 91.6 | 97.2 | 88.6 | 77.5 NM_198285.1 |
| 90.1 | 96.6 | 100.7 | 103.7 NM_182635.1 |

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| 209.7 | 204.7 | 188.3 | 206.9 | NM_182905.1 |
| 98 | 88.5 | 88.6 | 86.3 | NM_001031802.1 |
| 3680.1 | 2516.1 | 2341.8 | 1296.3 | NM_199337.1 |
| 97 | 79.6 | 95 | 81.9 | XR_000221.3 |
| 110.9 | 114.1 | 106.8 | 102.5 | NR_002815.1 |
| 117 | 107.2 | 109.4 | 103 | NM_199341.1 |
| 108.2 | 107 | 103.8 | 105.6 | NM_198560.1 |
| 97.5 | 95.4 | 85.9 | 92.5 | NM_198828.1 |
| 86.4 | 93.6 | 97.1 | 99.2 | NM_001010895.1 |
| 89.7 | 84.6 | 93.2 | 79.3 | NM_199352.2 |
| 93.4 | 85.3 | 91.7 | 88.4 | NM_001006604.1 |
| 118.3 | 109.4 | 114.7 | 122.9 | NM_001005751.1 |
| 90.6 | 88.6 | 92.2 | 99.2 | NM_001031853.2 |
| 98 | 84.5 | 87.1 | 83.7 | NM_203371.1 |
| 82.5 | 87.3 | 76.3 | 84.2 | XM_929102.1 |
| 84.6 | 78.5 | 77.7 | 73 | XM_370629.2 |
| 100.3 | 99 | 97 | 101.2 | NM_001008778.1 |
| 84.4 | 83.3 | 80.4 | 80.9 | XM_937099.1 |
| 87.8 | 80.8 | 77.2 | 84.1 | NM_001013635.2 |
| 96.8 | 98.1 | 95.3 | 97.9 | NM_001013635.2 |
| 80.7 | 88.3 | 94.2 | 87.9 | NM_001007537.1 |
| 102.8 | 96.2 | 96.7 | 101.1 | NM_001012754.2 |
| 288.4 | 345.9 | 329.3 | 377.7 | NM_001017370.1 |
| 98.9 | 100 | 87.2 | 86.7 | NM_001039614.1 |
| 85.2 | 79.1 | 77.2 | 80.6 | NM_001013638.1 |
| 120.7 | 99.8 | 87.4 | 96.6 | NM_001012984.1 |
| 83.4 | 75.5 | 77.2 | 92.3 | NM_001014985.1 |
| 104.3 | 102.7 | 96.9 | 98.7 | NM_001004313.1 |
| 135.6 | 147.8 | 111.7 | 118.8 | NM_213607.1 |
| 93.2 | 102.2 | 94.4 | 88.3 | NM_203425.1 |
| 82.8 | 77.6 | 81.8 | 85.4 | NM_001080466.1 |
| 97 | 105 | 96.3 | 96.9 | NM_001013640.1 |
| 30496.1 | 18518.4 | 17761.5 | 12570.5 | NM_001005472.1 |
| 97.7 | 88.2 | 87.5 | 86.9 | NM_001013641.1 |
| 121.9 | 113.1 | 102 | 99.8 | NM_001013642.1 |
| 149.1 | 173.6 | 165.1 | 173.5 | NM_001013644.1 |
| 87.7 | 88.9 | 89.1 | 88.8 | NM_001006606.1 |
| 109.6 | 125.7 | 126.9 | 125.3 | NM_207644.1 |
| 86.1 | 77.6 | 76.3 | 86.1 | NM_001012986.1 |
| 79.5 | 78.4 | 76.6 | 80.4 | NM_001010902.1 |
| 94.2 | 90.9 | 88.6 | 96.9 | NM_001080473.1 |
| 108.4 | 99.6 | 98.3 | 103.1 | NR_003131.1 |
| 89.9 | 97.6 | 90.6 | 94.3 | NM_001013648.3 |
| 108.1 | 109 | 96.6 | 94.2 | XM_940482.1 |
| 86.5 | 92.6 | 86.1 | 82 | NM_001080475.1 |
| 91.8 | 90.6 | 89.3 | 84.5 | NM_001007540.1 |
| 78.3 | 84.6 | 77.1 | 87.3 | NM_001013650.1 |
| 89.1 | 95.2 | 96.6 | 97.7 | XM_939104.1 |
| 94.1 | 83 | 81.6 | 87.9 | NM_001080478.1 |
| 212.9 | 239.6 | 250.3 | 136.6 | NM_001018022.1 |

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| 86.3 | 83.8 | 68.5 | 85.5 NM_001080540.1 |
| 76.3 | 87.9 | 77.4 | 79.6 NM_001010905.1 |
| 86.3 | 90.9 | 89.6 | 98.5 NM_001030060.1 |
| 90.7 | 85.6 | 82.9 | 82.6 NM_203393.1 |
| 85.8 | 76.5 | 72.3 | 81.4 NM_001032389.1 |
| 634.7 | 617.2 | 700.3 | 459.6 NM_001008395.1 |
| 91.7 | 102.1 | 89.6 | 85.4 NM_001024613.1 |
| 84.8 | 86.3 | 81.6 | 87.8 NM_001013651.1 |
| 91.8 | 92 | 87.1 | 102.5 NM_001080482.1 |
| 624.4 | 562.4 | 596.1 | 407.5 NM_001013653.1 |
| 614.5 | 495 | 555.6 | 330.6 XM_939320.1 |
| 93.5 | 90.9 | 83.8 | 87.5 NM_001080483.1 |
| 109.4 | 99.4 | 95.4 | 91.7 XM_372180.3 |
| 85.4 | 91.2 | 88 | 89.6 NM_001013654.1 |
| 79.2 | 95.3 | 81.6 | 85 NM_001013655.1 |
| 87.1 | 76.6 | 75.8 | 74.2 NM_001013656.1 |
| 90.6 | 83.7 | 89.2 | 93.8 NM_001031854.1 |
| 83.8 | 77.7 | 69.6 | 79.3 NM_001080486.1 |
| 97.2 | 89.3 | 90.7 | 89.3 XM_372428.3 |
| 109.2 | 100.1 | 101.9 | 96.3 NM_001013657.1 |
| 91.2 | 90.1 | 88 | 87.4 NM_001013658.1 |
| 89.1 | 89.8 | 83.5 | 90.6 NM_001080829.1 |
| 92.8 | 89.8 | 81.7 | 85.6 XM_372648.3 |
| 93.7 | 102.2 | 85 | 91.5 NM_001080487.1 |
| 97.2 | 90.3 | 98.3 | 97.6 NM_001013659.1 |
| 83.1 | 96 | 79 | 86.7 XM_372760.2 |
| 336.9 | 288.1 | 273.7 | 208.2 NM_001013663.1 |
| 88.6 | 88 | 83.9 | 85.8 NR_003275.1 |
| 85 | 77.6 | 78.1 | 81.6 NM_001013664.1 |
| 90.9 | 95.5 | 78.9 | 78.7 NM_001080489.1 |
| 87.5 | 80.3 | 74.9 | 78.9 NM_001010910.1 |
| 107.5 | 119 | 116.1 | 108.6 NM_001013665.1 |
| 98.7 | 105.8 | 97.3 | 107.6 NM_212554.2 |
| 97 | 94.2 | 82.9 | 95 NM_001013666.1 |
| 7753.2 | 10609.3 | 12891 | 12023.8 NM_001013667.1 |
| 97.8 | 98 | 94.4 | 95.4 NM_207645.1 |
| 119.2 | 116.2 | 124.2 | 98.7 NM_203451.1 |
| 97.1 | 88.5 | 91.7 | 91.3 NM_001008404.1 |
| 241 | 208.6 | 220.9 | 141.7 NM_207446.1 |
| 143.8 | 219.7 | 251.8 | 220.9 NM_001013670.1 |
| 123.7 | 219.2 | 306.8 | 243.3 NM_001013670.1 |
| 103.2 | 98.1 | 94.2 | 97.7 NM_001013671.1 |
| 163.2 | 145.7 | 113.3 | 127.9 NM_001012991.1 |
| 222.8 | 194.6 | 186.5 | 156.5 NM_001013672.2 |
| 413.1 | 325.8 | 313.2 | 191.6 NM_001013672.2 |
| 487.4 | 461.3 | 322.1 | 365.7 NM_001008234.1 |
| 83.6 | 84 | 78.2 | 85.8 NM_001013673.1 |
| 96.2 | 84.5 | 77.7 | 100.5 NM_001013675.1 |
| 86.7 | 106.3 | 95.9 | 94.3 NM_001013676.1 |
| 85.4 | 94.3 | 89.8 | 84.9 NM_001013677.1 |

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| 93.3 | 86.9 | 75 | 87.6 NM_001010914.1 |
| 142.8 | 138.2 | 165.3 | 200.4 NM_001010914.1 |
| 100.8 | 98.1 | 108.2 | 99.2 NR_002826.1 |
| 12863.5 | 8874.6 | 7398.5 | 8991.4 NM_001080831.1 |
| 179.8 | 198.9 | 218.5 | 184.9 NM_001008737.1 |
| 101.1 | 102.7 | 96.5 | 107.2 NM_001013679.1 |
| 86.3 | 95.9 | 81.9 | 93.6 NM_214711.1 |
| 290.4 | 260.6 | 235.8 | 224.4 NM_001001701.1 |
| 157.5 | 308.2 | 248.3 | 260.6 NM_001013680.1 |
| 85.8 | 77.1 | 78.7 | 84.4 NM_001013681.1 |
| 98.4 | 96.4 | 91.9 | 103 NM_001023565.1 |
| 107.8 | 113.9 | 115.1 | 107.9 NM_001024677.1 |
| 307.4 | 363.1 | 405.4 | 239.7 NM_001013685.1 |
| 89.2 | 92.1 | 83.1 | 91.3 NM_001045475.1 |
| 85.4 | 80.3 | 78.8 | 87.6 NM_001023566.1 |
| 86.5 | 81.2 | 73.6 | 86.3 NM_001008742.1 |
| 109.1 | 96.9 | 97 | 95.3 NM_001008745.1 |
| 87.3 | 80.1 | 90.2 | 90.6 NM_212558.1 |
| 115.2 | 110.4 | 98.2 | 99.2 NM_001045476.1 |
| 106.6 | 99.6 | 87.2 | 100 NM_001001710.1 |
| 95.5 | 84.9 | 86.4 | 102.8 NM_001013687.1 |
| 105.2 | 101.3 | 92.8 | 89.4 NM_001013691.1 |
| 154.4 | 152.3 | 120.1 | 148.8 NM_001013694.1 |
| 126.6 | 102.8 | 110.6 | 131.9 NM_001080499.1 |
| 85.8 | 95.5 | 84.5 | 87.3 NM_001013695.1 |
| 85.8 | 84.9 | 88 | 84 NM_001080500.1 |
| 85.1 | 105 | 116.3 | 125.5 NM_001011538.1 |
| 95 | 94.9 | 98.1 | 102.9 NM_001004323.1 |
| 89.6 | 88.9 | 83.5 | 92.4 NM_001015072.1 |
| 92.2 | 93.3 | 84.7 | 88.3 NM_207581.1 |
| 623.6 | 521.1 | 393 | 488.7 NR_002144.1 |
| 13263.6 | 10286 | 9157.8 | 7967.5 NR_002162.1 |
| 94.4 | 96 | 82.3 | 86.2 NM_001013696.1 |
| 81.6 | 79.4 | 79.1 | 81.7 NM_001039615.1 |
| 88 | 82.5 | 83.8 | 77.8 NM_001013698.1 |
| 94.2 | 94.4 | 86.3 | 92.3 NM_001013699.1 |
| 249.9 | 158.3 | 171.4 | 171.1 XM_933946.1 |
| 236.5 | 181.5 | 144.5 | 205.7 NM_001071775.1 |
| 152.1 | 169 | 200.5 | 158.4 NM_001013701.1 |
| 98.6 | 98.9 | 104.5 | 111.2 NM_199045.1 |
| 87.4 | 86.5 | 84.9 | 81.2 NM_198181.1 |
| 87.9 | 88 | 94.6 | 93 NM_001013704.1 |
| 242.5 | 268.5 | 297.5 | 256.4 NM_001018059.2 |
| 112 | 118.9 | 113.9 | 120.1 NM_001018122.1 |
| 119.7 | 124.7 | 120.2 | 120 NR_002473.2 |
| 102.7 | 102 | 87.8 | 95 NR_002943.1 |
| 95.2 | 97.8 | 83.1 | 86.9 XM_941901.1 |
| 89.3 | 78.7 | 84.3 | 75.7 NR_002931.1 |
| 86.6 | 81.5 | 86.8 | 92.5 NM_001013707.1 |
| 89.1 | 81.9 | 91.2 | 82.9 NM_001013708.1 |

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| 153.4 | 144.7 | 136.2 | 132.4 NM_001025303.1 |
| 82.2 | 78 | 83.3 | 81.9 NM_001013710.1 |
| 86.8 | 92 | 81.7 | 83.8 NR_002829.1 |
| 97.3 | 90.4 | 100.9 | 86.8 NM_001014440.2 |
| 97.9 | 98.5 | 92.5 | 89.3 NM_001013712.1 |
| 398.1 | 271.3 | 242.2 | 243.3 NR_002315.1 |
| 87.2 | 88 | 84.6 | 92.5 NM_001013713.1 |
| 86.9 | 105.2 | 91.2 | 83 NM_001011539.1 |
| 75.5 | 82.6 | 80.3 | 81.5 NM_001013715.1 |
| 94 | 93.8 | 101.8 | 94.4 NM_001013717.1 |
| 81.5 | 89 | 81.9 | 87.4 NM_001013718.1 |
| 162.1 | 136 | 147.3 | 135.4 NM_001008739.1 |
| 92.8 | 81.4 | 79.8 | 85 NM_001080507.1 |
| 109.4 | 107.1 | 110.6 | 100.1 NM_001010919.1 |
| 82.3 | 83.4 | 83.8 | 90 NM_001013720.1 |
| 91.4 | 81.5 | 89.3 | 90.6 NM_001025489.1 |
| 91.6 | 97.1 | 81.4 | 87.4 NM_001013723.1 |
| 81.3 | 97 | 89.5 | 89.8 NM_001013724.1 |
| 214.6 | 230.3 | 225.6 | 204.9 NM_001013464.1 |
| 113.6 | 106.4 | 85.6 | 92.5 XM_943658.1 |
| 79.7 | 86 | 81.2 | 87.2 NM_001034844.1 |
| 84.4 | 88.3 | 78 | 90.2 NM_001023562.1 |
| 109.5 | 124.6 | 149.4 | 144.7 NM_001013725.1 |
| 102 | 96.5 | 95.1 | 98 NM_001080538.1 |
| 121.3 | 125 | 115.2 | 116.2 NM_001008747.1 |
| 93 | 80.4 | 86.2 | 81.2 NM_001025357.1 |
| 81.3 | 82.1 | 82.4 | 79.8 NM_001013727.1 |
| 100.3 | 93.3 | 89.6 | 89.8 NM_001004353.1 |
| 89.2 | 91.2 | 82 | 86.6 XM_927564.1 |
| 85.8 | 85.8 | 79.8 | 83.6 NM_001080998.1 |
| 93.3 | 83.8 | 81.7 | 92.1 NR_003034.1 |
| 89.6 | 94.1 | 84.5 | 93.8 XM_928094.1 |
| 157.8 | 140.2 | 131.9 | 131.9 NM_001045548.1 |
| 102.1 | 93.8 | 92.2 | 81.8 NM_001025075.1 |
| 81.2 | 91.6 | 84.1 | 86.4 NM_001013729.1 |
| 102.7 | 93.2 | 93.7 | 93.5 NM_001013729.1 |
| 104.3 | 110 | 104.2 | 98.2 NM_001013732.1 |
| 102.2 | 96.5 | 108 | 98.6 NR_002932.1 |
| 81.3 | 78 | 81.2 | 69.5 XM_498330.2 |
| 82.9 | 79.2 | 83.5 | 80.3 NM_001013735.1 |
| 1103.7 | 1546.9 | 2115.8 | 1443.3 NM_001013739.1 |
| 87.6 | 103.4 | 89.4 | 82.7 NM_001025202.1 |
| 101.1 | 86.9 | 94.4 | 89.8 XM_499461.2 |
| 84.7 | 90.6 | 83.1 | 84.6 NR_002830.1 |
| 152.3 | 256.5 | 249.2 | 228.8 NM_001007189.1 |
| 89.2 | 82 | 80.4 | 89.3 NM_001008274.1 |
| 266.6 | 206.9 | 178.2 | 174.2 NM_001008388.1 |
| 93.7 | 83.4 | 82 | 85.6 NM_001008391.1 |
| 108.3 | 90.8 | 91.7 | 88.5 NM_001008397.1 |
| 99.6 | 98.4 | 98.5 | 97.4 NM_001011880.1 |

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| 108.1 | 86.3 | 102.3 | 104.7 NM_001035005.2 |
| 1842.3 | 1410.2 | 1484.3 | 782.1 NM_015853.3 |
| 76.8 | 96.3 | 82 | 92.1 NM_015910.3 |
| 83.9 | 80.8 | 80.7 | 83.4 NM_001042692.1 |
| 397.9 | 426 | 388.4 | 311.8 NM_016125.2 |
| 113.7 | 103 | 106.6 | 95.9 NM_001017987.2 |
| 90.4 | 90.5 | 80.9 | 85.9 NM_001018062.1 |
| 79 | 77.7 | 80 | 80.5 NM_016449.2 |
| 90.4 | 83.8 | 84.3 | 93.3 NM_016490.3 |
| 1584.4 | 1466.6 | 1349.5 | 1174.5 NM_016494.3 |
| 93.8 | 100.8 | 101.9 | 88.8 NM_016643.1 |
| 139.6 | 132.2 | 115.8 | 127.5 NM_016644.1 |
| 116.8 | 95.9 | 104.5 | 105.6 NM_017439.1 |
| 97.7 | 101.2 | 83.8 | 89.5 NM_001013617.1 |
| 90.7 | 102.7 | 91.1 | 88.6 NM_001013748.1 |
| 100.6 | 100.7 | 91 | 91.2 NM_001017437.1 |
| 92.2 | 88.5 | 90.9 | 92 NM_004125.2 |
| 81.1 | 76.9 | 77.7 | 90.9 NM_001024655.1 |
| 101.4 | 84.3 | 89.9 | 98.6 NM_001024656.1 |
| 93.4 | 79.9 | 93.1 | 92.8 NM_001024680.1 |
| 192.9 | 172.8 | 188.7 | 127.8 NM_017530.1 |
| 119.9 | 109 | 102.8 | 86.7 NM_018687.3 |
| 126.6 | 98.4 | 91.7 | 96.1 NM_020142.3 |
| 326.2 | 243.1 | 172.3 | 190.2 NM_020143.2 |
| 94.5 | 74.6 | 86.2 | 91.3 NM_020212.1 |
| 636.4 | 662.7 | 542.7 | 474.1 NM_020424.2 |
| 94 | 93 | 92.1 | 100.5 NM_001031628.1 |
| 105.3 | 121.7 | 102 | 100.3 NM_001031628.1 |
| 86.4 | 81.4 | 84.9 | 87 NM_001033873.1 |
| 99.3 | 105.3 | 96 | 101.8 NM_001031628.1 |
| 79.1 | 72.9 | 76.8 | 85.7 NM_001042524.1 |
| 83.7 | 82.3 | 75.4 | 79.8 NM_001042525.1 |
| 89.4 | 77.7 | 82 | 71.9 NM_001042524.1 |
| 112.7 | 103.6 | 115.1 | 98.3 NR_002453.4 |
| 111.4 | 97.7 | 112.4 | 93.3 NM_001031672.1 |
| 894.7 | 589.6 | 557.8 | 429.4 NR_002454.2 |
| 460.3 | 880.1 | 1109.1 | 839.2 NR_002555.2 |
| 96.7 | 97.6 | 87.7 | 93.8 XM_938437.1 |
| 85.6 | 86.4 | 84.9 | 87.1 NR_002934.1 |
| 85.7 | 93.6 | 77.8 | 82 NM_001033564.1 |
| 181.2 | 154.7 | 169.9 | 159.7 NM_022090.3 |
| 89.5 | 90.4 | 78.5 | 82.6 NM_022097.1 |
| 103.4 | 94.5 | 99.9 | 96.2 NM_001039083.1 |
| 94.2 | 87 | 78.8 | 88 XM_935587.1 |
| 108.9 | 100.4 | 99.4 | 108.5 XM_935713.1 |
| 502.6 | 500.9 | 469.9 | 471.2 XM_942734.1 |
| 83.9 | 89.8 | 85.1 | 77.6 XM_936338.1 |
| 85.8 | 74 | 70.3 | 77.8 XM_936358.1 |
| 79.3 | 79 | 80 | 82.6 NM_001040065.1 |
| 89.9 | 90.5 | 79.8 | 79.7 XM_925836.1 |

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| 90.3 | 89.5 | 91.9 | 91.4 XM_925858.1 |
| 195.2 | 205.4 | 163.9 | 182 XM_925863.1 |
| 86.4 | 85.3 | 83.6 | 83.4 XM_931704.1 |
| 94.9 | 87.7 | 93.3 | 84.9 XM_931182.1 |
| 4117.5 | 8104.5 | 10501.6 | 7440.2 NM_001039895.1 |
| 93.1 | 86.1 | 81.3 | 89.3 XM_926352.1 |
| 84.1 | 115.6 | 81.8 | 85.1 NM_001039761.2 |
| 97.9 | 92 | 86.8 | 97.3 XM_926361.1 |
| 36049.6 | 31542.5 | 28650.2 | 31444.7 XM_926427.1 |
| 93.7 | 86.1 | 81.1 | 88.3 XM_931373.1 |
| 97.3 | 96.3 | 84.5 | 89.5 XM_931397.1 |
| 109.5 | 99.4 | 98.1 | 95.7 XM_926586.1 |
| 77.5 | 77.7 | 73.2 | 84.3 NM_001080516.1 |
| 98.1 | 98.6 | 83.3 | 95.2 XM_931536.1 |
| 92.3 | 102.8 | 96.2 | 105.1 XM_926644.1 |
| 95 | 92.2 | 86.9 | 94.6 XM_927886.1 |
| 92.4 | 91.1 | 82.4 | 86.7 XM_926728.1 |
| 86.9 | 85.1 | 80 | 85.1 XM_926746.1 |
| 90.2 | 80.4 | 84.3 | 94.4 XM_926759.1 |
| 2728.4 | 1993.1 | 1943.1 | 944.4 XM_926831.1 |
| 81.7 | 79.1 | 79.4 | 81.8 XM_931621.1 |
| 155.9 | 164.8 | 208.9 | 163.4 XM_931666.1 |
| 4128.2 | 4023.2 | 3020.3 | 2634 XM_928629.1 |
| 98.9 | 87 | 81.1 | 88.8 XM_927025.1 |
| 100.4 | 104.7 | 100.2 | 88.6 XM_927093.1 |
| 101.5 | 96.3 | 89.1 | 97.9 XM_931851.1 |
| 91.9 | 104.4 | 99 | 100.5 XM_929395.1 |
| 130.4 | 138.7 | 106.1 | 109.3 XM_929395.1 |
| 79.6 | 81.6 | 81.9 | 88.8 XM_927137.1 |
| 92.3 | 84.7 | 92.7 | 83.2 XM_927170.1 |
| 103.4 | 96.2 | 89.6 | 99.3 NM_001039772.1 |
| 82.1 | 80.1 | 78.2 | 81.8 XM_927183.1 |
| 1361.2 | 916.4 | 716.9 | 745.5 XM_927199.1 |
| 735.8 | 280.6 | 228.1 | 220.2 XM_930156.1 |
| 92.4 | 82.2 | 87.5 | 80.9 XM_934127.1 |
| 457.1 | 294.4 | 259.6 | 228.9 NM_001042631.1 |
| 106.3 | 100.4 | 100.5 | 98.6 NM_001080520.1 |
| 97.2 | 88.8 | 85.9 | 93.7 XM_927528.1 |
| 92.5 | 89.2 | 96.9 | 100.2 XM_927544.1 |
| 98 | 91.6 | 86.3 | 85.5 XM_927552.1 |
| 89.9 | 97 | 96.8 | 96.8 XM_934067.1 |
| 85.2 | 88 | 81.4 | 80.3 XM_927728.1 |
| 293.9 | 204.3 | 276.8 | 274.4 XM_927730.1 |
| 97 | 94 | 87.4 | 93.4 XM_930214.1 |
| 87.1 | 76 | 81.2 | 87 XM_927880.1 |
| 86.9 | 89.1 | 89.2 | 90.1 XM_932381.1 |
| 114.6 | 94.8 | 96.2 | 98.3 XM_927975.1 |
| 82 | 95.5 | 88.6 | 84 NM_001080521.1 |
| 91.7 | 96.8 | 85.7 | 91.2 XM_928065.1 |
| 107.1 | 103.4 | 93.7 | 85.1 NM_001045478.1 |

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| 105.3 | 96.9 | 90.6 | 96.4 XM_928095.1 |
| 81.9 | 78 | 82.1 | 90.9 XM_932899.1 |
| 97.3 | 92.9 | 87.5 | 91.6 XM_932970.1 |
| 95 | 75.1 | 84.1 | 84.7 XM_928831.1 |
| 84.7 | 85.4 | 75.8 | 86.1 XM_928893.1 |
| 97.5 | 94.1 | 93.4 | 86 NM_001042506.1 |
| 86.5 | 78.7 | 70.9 | 86.4 XM_928939.1 |
| 89.4 | 88.9 | 99.5 | 96.5 NR_003254.1 |
| 11178 | 10704.9 | 9788.2 | 9395.7 XM_930460.1 |
| 89 | 88.6 | 88 | 91.8 XM_929401.1 |
| 88.2 | 96.1 | 88.6 | 96.9 XM_930522.1 |
| 78.4 | 79.5 | 83.6 | 84.9 NM_001039792.1 |
| 87 | 90.7 | 90.3 | 81.8 XM_934232.1 |
| 96.7 | 93 | 81.3 | 83.9 XM_496146.2 |
| 91.3 | 91.7 | 84.8 | 91.3 XM_936717.1 |
| 95.5 | 98.3 | 84.1 | 95.5 XM_942931.1 |
| 112.5 | 106.1 | 93.3 | 104.3 XM_943475.1 |
| 82.4 | 78.4 | 75 | 81.6 XM_944018.1 |
| 99.2 | 98.7 | 92.5 | 92.1 XM_937203.1 |
| 770.2 | 988.2 | 811.9 | 812.4 XM_944019.1 |
| 85 | 92.5 | 76.3 | 81.8 XM_943915.1 |
| 87.8 | 83.9 | 85.6 | 90 XM_938896.1 |
| 111.2 | 94.4 | 95.2 | 95.1 XM_937910.1 |
| 104.7 | 104.5 | 94.8 | 98.6 XM_943542.1 |
| 91.2 | 87.1 | 82.4 | 87.9 NM_001040069.1 |
| 87.1 | 91.3 | 82.2 | 94.3 XM_938230.1 |
| 89.9 | 91.5 | 87.1 | 85.1 XM_938298.1 |
| 77.7 | 80.9 | 81.1 | 81 XM_938449.1 |
| 91.1 | 96.5 | 87.3 | 83.9 XM_945043.1 |
| 86.7 | 79.2 | 74.3 | 83.9 XM_945040.1 |
| 100.2 | 88 | 84.6 | 94.1 XM_943707.1 |
| 78.9 | 81.1 | 81.5 | 82.6 XM_942115.1 |
| 109.5 | 92.6 | 95.7 | 103 XM_943751.1 |
| 89.2 | 91 | 80.1 | 96.8 XM_941960.1 |
| 82 | 81.6 | 77.4 | 82.6 XM_943783.1 |
| 153.6 | 124 | 108.2 | 98.1 XM_938776.1 |
| 1543.8 | 918.9 | 834.7 | 794.2 NM_001080840.1 |
| 1354.6 | 704.6 | 735.6 | 776.7 NR_003040.1 |
| 85.5 | 81.4 | 81.7 | 92.4 XM_942166.1 |
| 97.6 | 95.6 | 88.1 | 91.1 XM_941914.1 |
| 89.3 | 98.3 | 88.4 | 89.6 NM_001080841.1 |
| 84.8 | 87.9 | 82.5 | 94.1 XM_939222.1 |
| 100.5 | 95.5 | 80.8 | 93.6 XM_943161.1 |
| 88.7 | 81.9 | 79.4 | 76.6 XM_945692.1 |
| 97.8 | 87.9 | 88.5 | 94.2 NM_001040071.1 |
| 105.4 | 100.5 | 77.8 | 95.4 XM_939670.1 |
| 89.6 | 80.4 | 86.3 | 86.1 XM_944300.1 |
| 89.5 | 84 | 86.7 | 95.1 XM_939781.1 |
| 85 | 84.9 | 86.2 | 75.7 XM_942582.1 |
| 189 | 99.1 | 128.7 | 114.8 XM_940198.1 |

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| 87.5 | 85.3 | 83.8 | 85.8 XM_945836.1 |
| 102.6 | 103.5 | 106.1 | 97.1 XM_940459.1 |
| 162.5 | 174.3 | 183.8 | 105.8 XM_940575.1 |
| 94.9 | 100.5 | 95.1 | 98.4 NM_001080842.1 |
| 91.2 | 98.3 | 85.7 | 91.5 XM_945117.1 |
| 102.8 | 82.1 | 82.8 | 87.8 XM_941630.1 |
| 90.1 | 97.7 | 92.1 | 92.7 XM_941913.1 |
| 85.4 | 85.8 | 80.4 | 86.3 XM_945551.1 |
| 83 | 76.5 | 81.3 | 83.3 XM_942322.1 |
| 88.5 | 85.6 | 82.1 | 90.6 XM_942375.1 |
| 101.1 | 96 | 96.2 | 85.1 XM_942584.1 |
| 93.5 | 90.9 | 85.2 | 86 XM_942613.1 |
| 204.4 | 206.6 | 218.3 | 233.8 XM_931824.1 |
| 121.6 | 118 | 113 | 104.7 NM_001037666.1 |
| 94.1 | 92.3 | 99.5 | 88.6 XM_930589.1 |
| 96.1 | 87.5 | 84.2 | 85.6 XM_930698.1 |
| 88.6 | 85.5 | 78.9 | 88.9 XM_930645.1 |
| 102 | 94.1 | 86.9 | 98 XM_925895.1 |
| 99.1 | 105.9 | 111.1 | 104 XM_925981.1 |
| 92.3 | 86 | 88.4 | 89.6 XM_925995.1 |
| 82.4 | 86.3 | 85.3 | 98.1 XM_926391.1 |
| 79.4 | 82.3 | 84.4 | 81.6 XM_926981.1 |
| 139 | 209.2 | 194.1 | 196.2 XM_926881.1 |
| 85.6 | 85.5 | 87.4 | 79.5 XM_926186.1 |
| 85.6 | 86.1 | 80.5 | 93 XM_931089.1 |
| 85.8 | 89.8 | 81.6 | 90.6 XM_926230.1 |
| 90.8 | 96 | 87.3 | 86 XM_926321.1 |
| 109.8 | 94.4 | 109.6 | 97.3 XM_926358.1 |
| 100 | 94 | 87 | 92 XM_927227.1 |
| 114.5 | 117.5 | 120.2 | 105.8 NM_001079538.1 |
| 100.7 | 98.7 | 94.9 | 93.5 XM_931950.1 |
| 97.3 | 83.8 | 94.8 | 98.3 XM_926684.1 |
| 111.3 | 120 | 101.8 | 102.1 XM_926686.1 |
| 102.8 | 98.2 | 94.7 | 101.3 XM_926689.1 |
| 3048.7 | 2842.7 | 2910.3 | 2156.5 NM_001080544.1 |
| 91.3 | 79.5 | 81.9 | 80.7 NM_001079527.1 |
| 112 | 95.1 | 96.4 | 103.5 NM_001040715.1 |
| 3699.7 | 3278.7 | 2739.3 | 3043.7 XM_926913.1 |
| 214.8 | 171.9 | 153.2 | 155.3 XM_933544.1 |
| 86.9 | 85.6 | 87.5 | 78.7 XM_927205.1 |
| 82.6 | 96.6 | 93.5 | 93.5 XM_927326.1 |
| 95.7 | 77.2 | 85.2 | 83.7 XM_930216.1 |
| 94.1 | 85 | 90.8 | 82.2 XM_933416.1 |
| 90.2 | 84.4 | 82.7 | 88.5 XM_377002.2 |
| 101.2 | 96.3 | 89.7 | 78.8 XM_927632.1 |
| 104.8 | 99.1 | 105.6 | 105 XM_932255.1 |
| 87.8 | 98.5 | 93.1 | 90.1 NM_001042507.1 |
| 84.1 | 85.7 | 84.6 | 82.1 XM_927759.1 |
| 85.6 | 92.5 | 80.2 | 86.6 XM_932358.1 |
| 258 | 218.1 | 212.7 | 205.1 XM_927999.1 |

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| 87 | 87.9 | 82.6 | 88.8 XM_928014.1 |
| 97.9 | 104.6 | 97.8 | 95.7 XM_928059.1 |
| 762.7 | 469.2 | 475.3 | 399.5 NM_001080536.1 |
| 90 | 81 | 79.1 | 85.1 XM_928134.1 |
| 99.7 | 97.8 | 84.8 | 86.8 NM_001042500.1 |
| 96.2 | 91.9 | 82.4 | 83.6 XM_928353.1 |
| 82.3 | 83.6 | 72 | 80.2 XM_935128.1 |
| 94.2 | 89.5 | 82.4 | 89.1 XM_932857.1 |
| 98.2 | 75.1 | 87.8 | 86.3 XM_371416.3 |
| 92.7 | 93.9 | 89.6 | 85 XM_932876.1 |
| 236.7 | 361 | 249.5 | 301.9 XM_928461.1 |
| 84.2 | 88.9 | 78.5 | 77.1 XM_928685.1 |
| 78.9 | 88.1 | 72.7 | 87.1 XM_928912.1 |
| 85.2 | 84.6 | 79.3 | 85.7 XM_933280.1 |
| 95.6 | 93.4 | 91.9 | 97 XM_929011.1 |
| 89.7 | 82.5 | 84.8 | 86.7 XM_929041.1 |
| 99.6 | 94.9 | 87.4 | 103.1 XM_929053.1 |
| 163.6 | 129.1 | 108.7 | 103.7 XM_929072.1 |
| 157.2 | 112.1 | 97.9 | 109.7 XM_929105.1 |
| 82 | 77.7 | 75.5 | 75.8 XM_929192.1 |
| 94.3 | 89.5 | 93.8 | 89.2 XM_929209.1 |
| 114.1 | 109.5 | 106.2 | 107.5 XM_929354.1 |
| 118.6 | 105.6 | 93 | 97 XM_929370.1 |
| 100.6 | 103.3 | 103.2 | 86.4 XM_929376.1 |
| 92 | 78.3 | 100.8 | 77.8 XM_933630.1 |
| 87.5 | 81.5 | 77.5 | 85.1 XM_929409.1 |
| 89.9 | 100.7 | 90.6 | 91.7 XM_930555.1 |
| 82.6 | 79.7 | 91.6 | 84 XM_933689.1 |
| 94.5 | 94 | 93.4 | 95.3 XM_929519.1 |
| 93.9 | 82.5 | 91.5 | 99.8 XM_933779.1 |
| 87.7 | 79.2 | 81.3 | 87.3 XM_929596.1 |
| 85.2 | 84.5 | 92.6 | 88.2 XM_929910.1 |
| 87.6 | 88.9 | 78.5 | 82.1 XM_929939.1 |
| 87.5 | 87.5 | 80.1 | 84.3 XM_929976.1 |
| 125.5 | 125.7 | 121.7 | 113.2 XM_376278.3 |
| 84.9 | 82.8 | 77.9 | 94.3 XM_930091.1 |
| 85.9 | 78.8 | 78.3 | 81.9 XM_930108.1 |
| 79 | 78.8 | 71.9 | 86.5 XM_930313.1 |
| 97.6 | 97.3 | 92.7 | 88.9 NM_001042490.2 |
| 91.9 | 82.7 | 85.2 | 80.4 XM_936577.1 |
| 92.1 | 218.9 | 181.2 | 155.2 XM_937110.1 |
| 81 | 80.9 | 81.2 | 82.3 XM_944064.1 |
| 93.1 | 96.6 | 89.3 | 89.7 XM_944068.1 |
| 225.4 | 226.2 | 204.7 | 207.9 XM_937953.1 |
| 101.6 | 97.5 | 95.2 | 116.1 XM_496163.2 |
| 96.8 | 104.8 | 94.7 | 97.6 XM_938984.1 |
| 92.2 | 77.5 | 87.6 | 91.7 XM_939686.1 |
| 143.4 | 137.5 | 129.5 | 141.2 XM_945987.1 |
| 110.7 | 94.7 | 97.7 | 103.7 XM_945978.1 |
| 108.9 | 96.7 | 94.5 | 89.9 XM_939732.1 |

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| 97.2 | 92.7 | 86.2 | 83.5 XM_939968.1 |
| 97.2 | 90.2 | 87.3 | 109.1 XM_940045.1 |
| 72.4 | 84.6 | 80.6 | 78 XM_940489.1 |
| 102.6 | 94.5 | 97.7 | 85.9 XM_945260.1 |
| 82.1 | 68.4 | 64.1 | 68.6 NM_001040078.2 |
| 267.9 | 212.7 | 184.2 | 196.8 NR_003144.1 |
| 89.1 | 89.9 | 77.7 | 78.2 NM_001080393.1 |
| 80.5 | 87.1 | 80.1 | 80.6 NM_001077697.1 |
| 82.3 | 85.5 | 83 | 82.1 NM_001080396.1 |
| 90.3 | 85.5 | 84.5 | 85.4 NM_001080790.1 |
| 782.5 | 715.2 | 724.5 | 334 NM_001080849.1 |
| 89.9 | 79.2 | 82 | 84 NM_001080850.1 |
| 113.2 | 93.7 | 88 | 97.1 NM_001082488.1 |
| 647.8 | 521.9 | 606.4 | 466 NR_003277.1 |
| 148.7 | 200.6 | 234.6 | 199.8 NM_001080853.1 |
| 109.1 | 98.7 | 90.4 | 98.3 NM_001080856.1 |
| 85.4 | 93.3 | 89.4 | 89.3 NM_001080402.1 |
| 3978.4 | 7061.5 | 8946.8 | 6442.3 NR_003288.1 |
| 88.3 | 86.7 | 85.8 | 108.8 NM_030802.2 |
| 638 | 480 | 472.4 | 322.2 NM_030941.1 |
| 2645.2 | 2131.1 | 1941.6 | 1956.1 NM_032574.2 |
| 93.8 | 94.5 | 88.5 | 96.4 NM_138342.2 |
| 87.1 | 82.8 | 78.5 | 91.4 NM_194277.1 |
| 85 | 80.5 | 82.8 | 88.4 NM_001010851.2 |
| 206.5 | 186.6 | 164.3 | 154.1 NM_033211.2 |
| 104.7 | 95.6 | 101.5 | 90.2 XM_944706.1 |
| 264.1 | 240.8 | 254.8 | 219.5 NM_138353.2 |
| 602.1 | 367.1 | 317.3 | 307.2 NM_138358.2 |
| 1177.8 | 1910.1 | 2703.1 | 2025.9 NR_002773.1 |
| 337.3 | 403.2 | 470 | 290.3 NM_001031617.1 |
| 98.4 | 104.3 | 97.2 | 91 NM_138771.2 |
| 188.8 | 175.1 | 179.1 | 131 NM_138364.2 |
| 1135.2 | 576.5 | 672.1 | 395.6 NM_001014979.1 |
| 91.5 | 85.8 | 82.7 | 99.9 NM_175870.3 |
| 706.7 | 468.4 | 432 | 417.4 NM_138773.1 |
| 92.5 | 94.9 | 87.9 | 88.4 NM_001013618.1 |
| 101.4 | 118 | 115.4 | 117.8 NM_138698.2 |
| 134.3 | 106.7 | 100.4 | 114.2 NM_138370.1 |
| 54874.3 | 48748.2 | 46501.7 | 36714.2 NM_001080822.1 |
| 123.9 | 101.1 | 110.4 | 104.6 NM_139160.1 |
| 228.9 | 210.8 | 218.6 | 150.7 NM_033318.3 |
| 98.6 | 111.8 | 140.2 | 127.8 NM_001009607.1 |
| 81.2 | 92.9 | 88.7 | 88.1 NM_001017920.1 |
| 125 | 151.1 | 151 | 131.5 NM_001017971.1 |
| 193 | 158.4 | 146.2 | 128.5 NM_138386.1 |
| 101.8 | 96.2 | 96.8 | 104.3 NM_138389.1 |
| 123.3 | 105.1 | 93.3 | 96.2 NM_138390.2 |
| 1193.4 | 1223.8 | 1009 | 996.5 NM_138779.2 |
| 105 | 85.3 | 87.9 | 83 NM_138402.3 |
| 411.5 | 270.2 | 279.7 | 208.6 NM_138699.2 |

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| 108.3 | 121.8 | 104.5 | 119.9 NM_198315.2 |
| 105.8 | 96.4 | 93.3 | 88.4 NM_014622.4 |
| 101.4 | 111.9 | 103.5 | 96.2 NM_058169.2 |
| 92 | 79.4 | 79.1 | 82.2 NM_013343.1 |
| 107.4 | 123.2 | 115.8 | 106.1 NM_031490.2 |
| 251.7 | 189.4 | 169.8 | 191 NM_152271.2 |
| 93.3 | 83.3 | 73.7 | 87 NM_198461.1 |
| 155.1 | 137.5 | 135.8 | 145.3 NM_024778.4 |
| 80.1 | 94 | 83.9 | 95 NM_001031855.1 |
| 81.1 | 81.9 | 77.1 | 82.5 NM_000427.1 |
| 79.4 | 79 | 81.8 | 82.8 NM_002317.3 |
| 92.9 | 81 | 74 | 87.2 NM_144612.4 |
| 75.3 | 72.3 | 74.4 | 77.1 NM_005576.2 |
| 96.3 | 89.1 | 80 | 91 NM_005576.2 |
| 84.8 | 81.3 | 80.2 | 81.1 NM_002318.2 |
| 133.2 | 150.6 | 137.3 | 131.2 NM_032603.2 |
| 102 | 95.6 | 101.7 | 97 NM_032211.6 |
| 93.1 | 93.8 | 81.5 | 94.9 NM_005577.2 |
| 102.5 | 90.2 | 94.7 | 101.5 NM_005577.2 |
| 86.2 | 84.4 | 80.1 | 91.5 NM_024492.2 |
| 93.5 | 90.7 | 84.7 | 90.3 NM_145727.1 |
| 85.5 | 84.7 | 88.9 | 96.8 NM_145727.1 |
| 103.8 | 101.4 | 96.8 | 109 NM_014873.1 |
| 383.2 | 261.5 | 239 | 207.7 NM_014921.3 |
| 81.1 | 91.3 | 96.7 | 86.9 NM_014921.3 |
| 365.7 | 582.3 | 426.4 | 467.2 NM_012302.2 |
| 175.7 | 279.1 | 225 | 283.7 NM_015236.3 |
| 740.5 | 957.1 | 1113.9 | 749.3 NM_145693.1 |
| 127.5 | 112.8 | 111.1 | 98.4 NM_014646.2 |
| 100.5 | 97.4 | 113.1 | 90.7 NM_022896.1 |
| 177.8 | 230 | 187 | 178.7 NM_000237.1 |
| 89.4 | 94 | 86.8 | 98.3 NM_006151.1 |
| 433.6 | 1138.2 | 1372.9 | 808.2 NM_005578.2 |
| 156 | 211.1 | 169.8 | 160.5 NM_022737.1 |
| 81.1 | 82.4 | 83.2 | 89.5 NM_014839.3 |
| 1744.6 | 1163.9 | 1281.9 | 775.6 NM_004811.1 |
| 4569.8 | 5390.6 | 7161.7 | 6349.7 NM_022350.1 |
| 88.6 | 87.4 | 82.6 | 92.5 NM_004744.3 |
| 314.2 | 298.4 | 298.5 | 245.9 NM_006726.1 |
| 75.7 | 80.6 | 77.5 | 94.8 NM_015116.1 |
| 99.7 | 85.7 | 84.5 | 88.3 NM_020871.2 |
| 174 | 194 | 218.1 | 197.8 NM_032773.2 |
| 579.4 | 633.4 | 743.1 | 312.2 NM_002319.3 |
| 311.6 | 321.8 | 290.2 | 312.9 NM_018494.3 |
| 208.2 | 214.9 | 236.4 | 180.3 NM_145887.2 |
| 77.6 | 82.7 | 72.6 | 76.9 NM_018494.3 |
| 85.5 | 90.6 | 84.4 | 78.9 NM_020737.1 |
| 464.3 | 296.7 | 316.8 | 168.9 NM_024509.1 |
| 167.3 | 163.4 | 130.8 | 152.4 NM_024036.3 |
| 90 | 86.7 | 87.2 | 78.7 NM_152447.2 |

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| 399.4 | 373.5 | 385.9 | 206.9 NM_052972.2 |
| 401 | 523.6 | 454.3 | 457.7 NM_015541.2 |
| 162.7 | 138 | 149 | 110 NM_014813.1 |
| 93.7 | 88.6 | 80.5 | 84.6 NM_153377.3 |
| 331.8 | 338.1 | 322 | 288 NM_006152.2 |
| 89.9 | 89.6 | 81.9 | 83.6 NM_002332.1 |
| 258.4 | 143.7 | 145.4 | 119.4 NM_014045.3 |
| 237.3 | 380.2 | 262.4 | 375.6 NM_032832.3 |
| 114.1 | 108.8 | 100 | 98.9 NM_013437.2 |
| 97.2 | 85.3 | 81.3 | 84.8 NM_014067.2 |
| 95.7 | 88.6 | 97.5 | 82.9 NM_018557.1 |
| 89 | 100.8 | 84.5 | 88 NM_004525.1 |
| 97.1 | 94.3 | 90.5 | 88.9 NM_018409.2 |
| 1641.1 | 1343.5 | 1113.5 | 638.1 NM_002333.1 |
| 99.2 | 97.1 | 90.9 | 80.5 NM_002334.1 |
| 122.1 | 124.8 | 118.2 | 118.2 NM_002335.2 |
| 184.6 | 308.4 | 333.1 | 208 NM_182492.1 |
| 111.5 | 122.2 | 102.3 | 103.5 NM_002336.1 |
| 118 | 125.3 | 106 | 115.6 NM_001018054.1 |
| 1243.9 | 1156.1 | 925.9 | 999.5 NM_033300.2 |
| 320.7 | 319.2 | 307.7 | 236.2 NM_002337.1 |
| 692.5 | 591 | 504.8 | 412.2 NM_133259.2 |
| 93.1 | 97.2 | 90.3 | 94.1 NM_025168.1 |
| 292.7 | 255.7 | 241.7 | 263.1 NM_018214.3 |
| 93.2 | 93.3 | 82.6 | 91.4 NM_201550.2 |
| 340.1 | 248.5 | 217.4 | 161 NM_014665.1 |
| 118.8 | 119.4 | 105.6 | 103.5 NM_130830.2 |
| 95.2 | 97.8 | 89.4 | 100.1 NM_017640.3 |
| 137.2 | 147.3 | 150.4 | 155.3 NM_001031692.1 |
| 95.9 | 92.1 | 94.9 | 101.7 NM_005824.1 |
| 99.6 | 92.1 | 94.8 | 84 NM_001031692.1 |
| 95.1 | 88.9 | 82.3 | 80.9 NM_001006939.2 |
| 99 | 95.5 | 90.9 | 94.3 NM_022901.1 |
| 86.3 | 83.3 | 81.3 | 83.5 NM_024512.2 |
| 80.1 | 80.5 | 77.5 | 81.8 NM_207119.1 |
| 367.7 | 270.4 | 257.4 | 178.9 NM_207119.1 |
| 159 | 145.7 | 131.6 | 129.7 NM_018239.2 |
| 96.2 | 87.6 | 84.4 | 80.8 NM_015613.1 |
| 95.8 | 87.3 | 83.9 | 93.9 NM_001017924.2 |
| 100.7 | 112.6 | 90.2 | 98.8 NM_201650.1 |
| 97.2 | 98.2 | 93 | 96.3 NM_201650.1 |
| 87.6 | 85.4 | 85.2 | 84.7 NM_001024678.1 |
| 87.6 | 87.3 | 93.9 | 95.4 NM_145256.2 |
| 93.6 | 90.2 | 80.8 | 84 NM_030626.1 |
| 216.4 | 215.2 | 237.7 | 187.6 NM_144598.2 |
| 97.3 | 105.2 | 91.2 | 96.3 NM_012163.2 |
| 130.7 | 113.2 | 110.1 | 108 NM_012163.2 |
| 133.7 | 112.7 | 136.7 | 97.5 NM_030891.3 |
| 109.9 | 107.7 | 103.8 | 103 NM_024727.1 |
| 86.2 | 82.2 | 84.4 | 84.7 NM_005512.1 |

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| 815.8 | 614.1 | 524.9 | 475.2 NM_198565.1 |
| 118.7 | 96.5 | 80.1 | 88.2 NM_153353.2 |
| 90.7 | 93 | 79.5 | 75.6 NM_152715.2 |
| 91.4 | 94 | 83.3 | 83.9 NM_018296.4 |
| 88.9 | 90.1 | 92.5 | 95.7 NM_001006607.2 |
| 400.8 | 505.4 | 487.9 | 556.3 NM_052888.2 |
| 92.5 | 82.5 | 83.6 | 93.4 NM_144620.1 |
| 128.3 | 111.3 | 102.1 | 100.2 NM_052953.2 |
| 82.2 | 86.3 | 77.9 | 70.7 NM_022143.3 |
| 125.5 | 115.6 | 111.2 | 118.5 NM_017768.3 |
| 243.4 | 249.6 | 234.7 | 124.5 NM_006369.4 |
| 840.6 | 757 | 788.6 | 592.9 NM_052940.3 |
| 111.5 | 106.9 | 102.9 | 113.1 NM_152759.3 |
| 236.5 | 283.2 | 254.9 | 271.1 NM_144999.2 |
| 112.4 | 126.1 | 133.9 | 116.8 NM_144999.2 |
| 90.8 | 89.8 | 84.3 | 80.3 NM_033413.2 |
| 310.1 | 285.1 | 276.6 | 163.2 NM_020710.1 |
| 102.1 | 102.1 | 86.7 | 99 NM_031294.2 |
| 105.3 | 88.5 | 91.9 | 106.5 NM_031294.2 |
| 104.8 | 93.6 | 92.3 | 94.5 NM_017691.2 |
| 93.7 | 94.4 | 89 | 88.1 NM_001080457.1 |
| 92.7 | 87.9 | 91.3 | 94.7 NM_020929.1 |
| 80.8 | 84.2 | 85.3 | 75.2 NM_178452.3 |
| 98.1 | 92.3 | 93.2 | 96.5 NM_145309.1 |
| 83.9 | 89.8 | 88.1 | 77.9 NM_001005214.1 |
| 229.4 | 153 | 146.3 | 120.7 NM_015516.3 |
| 84.9 | 90.3 | 78.4 | 93.7 NM_001005210.1 |
| 111.7 | 96.2 | 102.4 | 88.9 NM_198075.1 |
| 230.2 | 175.7 | 189.5 | 141.6 NM_153260.1 |
| 103.6 | 100.7 | 95.9 | 91.4 NM_018509.2 |
| 100.5 | 94.5 | 88.4 | 82.4 NM_012472.3 |
| 89.1 | 88.2 | 82.6 | 84.4 NM_023942.1 |
| 85.3 | 85.7 | 88 | 86.2 NM_020794.1 |
| 242.5 | 193.4 | 193.5 | 144.2 NM_019594.2 |
| 101.7 | 89.5 | 83.1 | 86.4 NM_015350.1 |
| 267.2 | 189.1 | 180.2 | 218.6 NM_032270.2 |
| 294.6 | 279.8 | 276.2 | 235.4 NM_018103.3 |
| 91.4 | 83.8 | 81.7 | 86.9 NM_025061.3 |
| 100 | 89.3 | 82 | 92.6 NM_033402.2 |
| 730.6 | 637.5 | 510 | 457.3 NM_033402.2 |
| 100.9 | 100.9 | 97.7 | 101.8 NM_033402.2 |
| 2153.8 | 2379.2 | 2492.1 | 3282.5 NM_004735.2 |
| 88.2 | 88.8 | 84.4 | 82.5 NM_006309.1 |
| 674.2 | 715 | 626.6 | 594.2 NM_017724.1 |
| 302.8 | 380 | 353.8 | 252.3 NM_006309.1 |
| 74.3 | 76 | 80 | 84.8 NM_032165.2 |
| 90.3 | 92.6 | 88.2 | 85.6 NM_024548.2 |
| 108.7 | 97.6 | 109.2 | 98.6 NM_024652.2 |
| 95.2 | 107.7 | 99.2 | 91 NM_198578.2 |
| 91 | 100.6 | 89.3 | 101.5 XM_930820.1 |

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| 97.3 | 88.4 | 96.6 | 80 NM_020873.3 |
| 99.2 | 92.7 | 87.8 | 87.9 NM_018334.3 |
| 100.6 | 83 | 86.2 | 86.8 NM_006338.2 |
| 95.3 | 90 | 88.6 | 88.4 NM_006338.2 |
| 86.9 | 90.2 | 84.3 | 87.3 NM_201630.1 |
| 97.2 | 90.2 | 83.1 | 87.1 NM_032808.5 |
| 94.1 | 91.1 | 85.7 | 85.8 NM_152570.1 |
| 88.4 | 96.8 | 90.4 | 90.1 NM_178839.4 |
| 93.7 | 88.1 | 91.3 | 86.2 NM_015564.1 |
| 88.2 | 82.4 | 83.5 | 88.5 NM_178011.3 |
| 112.8 | 93.3 | 101.5 | 85.7 NM_024993.3 |
| 89.8 | 91.9 | 81.9 | 81.4 NM_138361.3 |
| 314.3 | 267.7 | 271.9 | 162.1 NM_001005374.1 |
| 87.4 | 92.5 | 87.6 | 86.2 NM_001005373.1 |
| 95.5 | 92.9 | 87.6 | 88.3 NM_020678.2 |
| 98.3 | 112.9 | 96.2 | 87.6 NM_001039029.1 |
| 114.7 | 104.3 | 106.8 | 95.6 NM_002338.2 |
| 93.4 | 142.7 | 154.3 | 128.8 NM_001013706.2 |
| 229.7 | 211.5 | 166.3 | 158.4 NM_018385.1 |
| 7990.1 | 4771.1 | 4824.5 | 3122.7 NM_014462.1 |
| 343.4 | 303.5 | 260.6 | 226.6 NM_032881.1 |
| 97.8 | 97.9 | 95.1 | 97.4 NM_173491.1 |
| 487.3 | 481.3 | 301.6 | 309.4 NM_152344.1 |
| 2012 | 1869.7 | 1845.9 | 1009.9 NM_015578.1 |
| 118.3 | 124.2 | 124.9 | 109.8 NM_144703.1 |
| 226.9 | 195.1 | 179.9 | 149.8 NM_025083.2 |
| 3258.2 | 2469.5 | 2807.4 | 1385.2 NM_021177.3 |
| 3930.6 | 2326.3 | 1959.7 | 2481.2 NM_014463.1 |
| 2296 | 1212.8 | 1107.9 | 843.8 NM_012321.2 |
| 329.2 | 197.2 | 213.1 | 213.2 NM_012322.1 |
| 142.4 | 114.9 | 133 | 139.3 NM_007080.1 |
| 4036.2 | 2550 | 2948.5 | 1705.8 NM_016199.1 |
| 415.9 | 360.3 | 331.6 | 272.6 NM_016200.2 |
| 345.4 | 288.3 | 263.7 | 197.5 NM_032356.3 |
| 108.5 | 217.1 | 173.8 | 189.4 NM_001013255.1 |
| 87.6 | 95.4 | 84.8 | 87.1 NM_001013253.1 |
| 110.3 | 229.8 | 210.9 | 214.5 NM_001013253.1 |
| 95.8 | 85.6 | 89 | 97.1 NM_001013254.1 |
| 105.5 | 96.3 | 85.9 | 92.2 NM_205835.2 |
| 103.7 | 88.4 | 93.9 | 92.8 NM_205834.2 |
| 85.5 | 82.7 | 74.4 | 86.3 NM_015925.5 |
| 95.3 | 104.6 | 97.2 | 119.5 NM_001001438.1 |
| 125.1 | 111.8 | 114.4 | 117.3 NM_001001438.1 |
| 388.6 | 452.3 | 622 | 568.5 NM_002340.3 |
| 3441.5 | 1540.3 | 1626.4 | 1115.8 NM_007161.2 |
| 202.3 | 145.9 | 140.7 | 149.2 NM_205837.1 |
| 1654.3 | 1015 | 958.6 | 658.3 NM_205837.1 |
| 1653.4 | 984.7 | 1053.6 | 660 NM_205840.1 |
| 87.4 | 90.2 | 81.2 | 89 NM_001009562.4 |
| 135.9 | 112.5 | 114.5 | 103.4 NM_000595.2 |

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| 939.7 | 1370.1 | 1256.4 | 1113.4 | NM_000895.1 |
| 477.2 | 256.7 | 277.8 | 182.8 | NM_002341.1 |
| 170.7 | 128.2 | 121.8 | 107.5 | NM_002341.1 |
| 671.2 | 461.6 | 449.1 | 338.3 | NM_012212.2 |
| 140.1 | 149.4 | 161.9 | 161.4 | NM_181657.1 |
| 84.1 | 94.8 | 80.4 | 92.6 | NM_019839.1 |
| 77.9 | 76.6 | 75.1 | 75.9 | NM_000627.2 |
| 88.4 | 92 | 86.7 | 88.9 | NM_206943.1 |
| 92.1 | 89.8 | 82.4 | 89.1 | NM_021070.2 |
| 86.3 | 80.1 | 76.5 | 84.4 | XM_938706.1 |
| 169.9 | 117.2 | 135 | 123.3 | NM_021070.2 |
| 90.9 | 87.4 | 89.1 | 84.8 | NM_003573.2 |
| 188.7 | 185.6 | 161.1 | 161.1 | NM_003573.1 |
| 526.1 | 573 | 434.1 | 482.3 | NM_002342.1 |
| 434.2 | 419.1 | 474.4 | 320.8 | NM_145867.1 |
| 90.9 | 92.9 | 87 | 92.5 | NM_002343.2 |
| 95 | 103 | 85.8 | 99.3 | NM_002344.3 |
| 99.3 | 84.7 | 82.5 | 80.5 | NM_206961.1 |
| 909 | 769.5 | 584.7 | 554.3 | NM_032860.3 |
| 91.7 | 98.9 | 105.1 | 89 | NM_018032.3 |
| 286.1 | 285.3 | 326.2 | 230.3 | NM_018032.3 |
| 156.4 | 159 | 159.5 | 154.8 | NM_016019.1 |
| 96.2 | 96.4 | 84.6 | 93.4 | NM_002345.3 |
| 580.8 | 755.7 | 699.9 | 362.6 | NM_033631.2 |
| 104.7 | 97.8 | 99.5 | 113.4 | NM_001009909.2 |
| 79.1 | 77.2 | 72.8 | 85.3 | NM_016383.2 |
| 92.7 | 98.8 | 84.3 | 95 | NM_020169.2 |
| 86.2 | 90.1 | 72.8 | 86.4 | NM_003695.2 |
| 811.9 | 241.9 | 185.8 | 193.1 | NM_002346.1 |
| 117.9 | 112.2 | 128.7 | 101.9 | NM_021221.2 |
| 155.7 | 125.4 | 122.3 | 97.6 | NM_025262.2 |
| 89.7 | 85.4 | 84.7 | 84.6 | NM_001002848.1 |
| 91.8 | 88.7 | 87 | 84.6 | NM_001002849.1 |
| 88.9 | 81.7 | 76.1 | 82.4 | NM_025261.1 |
| 87 | 85.4 | 90.5 | 86.1 | NM_021246.2 |
| 162.3 | 142.8 | 141.8 | 144.6 | NM_002347.2 |
| 90 | 85.7 | 82.5 | 84.7 | XM_937329.1 |
| 87.8 | 86.5 | 82.1 | 92.7 | NM_017527.2 |
| 89.2 | 81.8 | 83 | 88.2 | NM_002349.1 |
| 1184.3 | 1167.2 | 1268.2 | 800.2 | NM_004271.3 |
| 100.5 | 82.3 | 80.9 | 80.7 | NM_001033667.1 |
| 111.4 | 112 | 114 | 105.5 | NM_002348.2 |
| 92.2 | 81.7 | 89 | 77.7 | NM_001033667.1 |
| 205.8 | 384.3 | 334.9 | 311 | NM_015364.2 |
| 929 | 502.8 | 488.1 | 419.7 | NM_017816.1 |
| 89.7 | 91.5 | 89 | 85.4 | NM_182551.3 |
| 701.4 | 456.4 | 364.1 | 405.9 | NM_001002257.1 |
| 91 | 87.9 | 86.4 | 82.7 | NM_175735.3 |
| 78.7 | 82.5 | 93.3 | 90.8 | NM_153335.4 |
| 743.4 | 664 | 698.8 | 400.5 | NM_001003786.1 |

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| 148.8 | 152.2 | 132.8 | 125.4 NM_001003787.1 |
| 941.3 | 1182.1 | 1378.2 | 629.2 NM_005583.3 |
| 3784.6 | 2834.9 | 2228.2 | 2191.2 NM_002350.1 |
| 88.5 | 95.5 | 87.1 | 77.6 NM_177476.1 |
| 83 | 79.7 | 76.3 | 79.6 NM_177458.1 |
| 82.2 | 73.9 | 76.2 | 86.2 NM_177477.1 |
| 91.6 | 93.5 | 84.6 | 80.1 NM_144586.3 |
| 115.9 | 115.4 | 97.4 | 123.6 NM_001077427.2 |
| 92.2 | 96.1 | 96.8 | 96.2 NM_205545.1 |
| 90.7 | 93 | 88.1 | 88.1 NM_014400.1 |
| 87.4 | 83.7 | 86.4 | 87.1 NM_173506.3 |
| 74.1 | 76.4 | 73.3 | 73.5 NM_182573.1 |
| 120 | 95.8 | 115 | 99.1 NM_001031749.1 |
| 90.2 | 90.5 | 88.1 | 100.4 NM_001031749.1 |
| 85.3 | 84.2 | 82.5 | 90.5 NM_006330.2 |
| 165.6 | 160.8 | 153.2 | 145.5 NM_007260.2 |
| 98 | 100 | 98.8 | 96.2 NR_001444.3 |
| 184.5 | 161 | 138.1 | 143.3 NM_012320.3 |
| 1590 | 984.3 | 970.6 | 734.3 NM_138794.1 |
| 101.6 | 99.4 | 94.5 | 95.9 NM_212551.2 |
| 788.8 | 720.6 | 754.6 | 555.3 NM_153374.1 |
| 101.8 | 104.1 | 84.9 | 87.6 XM_938559.1 |
| 85 | 93.2 | 83.3 | 91.1 NM_198273.1 |
| 302.9 | 352.1 | 358.5 | 281.2 NM_152449.2 |
| 799.5 | 875.5 | 844.9 | 1093.6 NM_000081.2 |
| 102.5 | 94.6 | 94.8 | 89.4 NM_001005736.1 |
| 89.7 | 85.3 | 79.1 | 78.3 NM_001005736.1 |
| 227.6 | 333.9 | 275.1 | 213.8 NM_000239.1 |
| 84.2 | 87.5 | 75.7 | 85.1 NM_032517.4 |
| 97.7 | 107.1 | 104.7 | 100 NM_183058.2 |
| 92.1 | 95.3 | 87.9 | 95.7 NM_144634.2 |
| 94.3 | 105 | 101.4 | 81.3 NM_020426.1 |
| 165.7 | 162.5 | 130.8 | 131.8 NM_032368.3 |
| 192.6 | 160.8 | 156.7 | 172.8 NM_020347.2 |
| 870.8 | 774.9 | 788 | 437.3 NM_006767.2 |
| 88.8 | 82.6 | 80.3 | 79.7 NM_033127.1 |
| 146.7 | 111.4 | 93.2 | 98.4 NM_021020.1 |
| 142.2 | 122 | 120.5 | 127.5 NM_032429.1 |
| 886.3 | 880.3 | 657.9 | 556.5 NM_174941.3 |
| 1100.1 | 890 | 757.7 | 498.6 NM_002355.2 |
| 3852 | 2098.1 | 2121.6 | 1324.8 NM_005817.3 |
| 88.9 | 87 | 83.4 | 87.1 NM_005584.2 |
| 86.4 | 86.6 | 82.8 | 101.1 NM_006439.3 |
| 90 | 90.8 | 84.6 | 91.4 NM_006439.3 |
| 106.7 | 104.8 | 107.3 | 116.4 NM_012090.3 |
| 93.1 | 87.9 | 84.5 | 97.3 NM_033044.2 |
| 250.3 | 474 | 431.6 | 419.4 NM_012090.3 |
| 435.8 | 316 | 298.2 | 278.8 NM_001013836.1 |
| 144.3 | 96.3 | 103.7 | 100.2 NM_002358.2 |
| 108.1 | 102 | 115.6 | 107.1 NM_001003690.1 |

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| 338.1 | 292.9 | 262.4 | 203.8 NM_014628.2 |
| 937.7 | 651.7 | 546.7 | 435.9 NM_014628.2 |
| 2582.8 | 1756.1 | 1528.7 | 1315.3 NM_006341.2 |
| 98.6 | 90.6 | 94.7 | 93.6 NM_130760.1 |
| 91.5 | 85.7 | 93.9 | 90.3 NM_130760.1 |
| 92.1 | 93.1 | 95.3 | 94.9 NM_130470.1 |
| 176.4 | 207.1 | 194.4 | 211.8 NM_130473.1 |
| 164.5 | 209.3 | 187 | 121.9 NM_130471.1 |
| 825.3 | 348.2 | 315.2 | 246.6 NM_005882.3 |
| 315.4 | 215.7 | 168.3 | 149.9 NM_001017405.1 |
| 90.2 | 80.5 | 83.5 | 84 NM_032858.1 |
| 91.5 | 87.2 | 82 | 96.4 NM_001031804.1 |
| 93.4 | 96.3 | 103.1 | 98.4 NM_005360.3 |
| 239.7 | 192.6 | 199.8 | 174.3 NM_032272.3 |
| 122.3 | 119.4 | 111.8 | 112.4 NM_201589.2 |
| 220 | 396.7 | 301.7 | 277.1 NM_005461.3 |
| 94 | 101.6 | 94.4 | 94.1 NM_152878.1 |
| 202.2 | 155.9 | 167.8 | 124.6 NM_012323.2 |
| 89 | 89.2 | 88.7 | 88 NM_012323.2 |
| 403.6 | 487.7 | 555.2 | 483.6 NM_002359.2 |
| 198.2 | 159.2 | 173.3 | 179.3 NM_032711.2 |
| 90.6 | 90.5 | 86.6 | 92.3 NM_002360.2 |
| 95.5 | 91.9 | 93.4 | 94.8 NM_002361.2 |
| 90.2 | 91.1 | 88.9 | 82.5 NM_080600.1 |
| 93.6 | 84.1 | 79.8 | 75.9 NM_004988.3 |
| 85.4 | 87.1 | 80.9 | 88 NM_001011543.1 |
| 89.1 | 88.7 | 88.6 | 76.9 NM_001011543.1 |
| 78.7 | 74.5 | 76.3 | 87.4 NM_005366.4 |
| 76.8 | 86 | 79.3 | 84.3 NM_005366.4 |
| 105 | 105.4 | 99 | 91.5 NM_001011544.1 |
| 77.5 | 78.7 | 75.5 | 76.7 NM_005366.4 |
| 92.1 | 83.5 | 81.8 | 94.9 NM_005367.4 |
| 78.5 | 85.9 | 82.7 | 90.6 NM_005361.2 |
| 86.2 | 89.1 | 87.4 | 85.6 NM_175743.1 |
| 84.2 | 80.2 | 76.1 | 85.8 NM_153488.3 |
| 86.8 | 92.8 | 83.9 | 79.7 NM_005362.3 |
| 92.7 | 97.4 | 89.9 | 99.5 NM_002362.4 |
| 108.7 | 95.3 | 98.8 | 87.8 NM_021049.3 |
| 95.4 | 91.3 | 92 | 88.4 NM_175868.1 |
| 86.1 | 85.6 | 84.4 | 85.2 NM_005364.3 |
| 78.9 | 79.9 | 69.1 | 80.2 NM_002363.3 |
| 84.7 | 69.5 | 73.1 | 82 NM_002363.3 |
| 89.5 | 76.4 | 69.2 | 90.2 NM_182506.2 |
| 73.3 | 78.7 | 73.3 | 80.8 NM_173699.1 |
| 91.5 | 72.3 | 76.3 | 79.1 NM_002364.3 |
| 86.3 | 93.4 | 93.6 | 82.3 NM_002365.3 |
| 89.5 | 82.6 | 81.3 | 80 NM_002367.2 |
| 90.5 | 89.7 | 87 | 83.9 NM_173523.2 |
| 87.7 | 85.9 | 77.2 | 92.1 NM_005462.3 |
| 84.3 | 75.7 | 82.2 | 82.8 NM_005462.3 |

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| 77.3 | 78.2 | 85.6 | 81.4 NM_016249.2 |
| 84.5 | 85 | 86.2 | 91.5 NM_177456.2 |
| 80.5 | 79.8 | 81.8 | 80.6 NM_177456.2 |
| 77.7 | 82 | 70.3 | 78.5 NM_138702.1 |
| 243.9 | 826.6 | 776.8 | 458.1 NM_001005333.1 |
| 118.7 | 273.6 | 214.3 | 187.4 NM_006986.3 |
| 89.5 | 104.5 | 90.5 | 110.3 NM_001005332.1 |
| 92.5 | 80.2 | 92.6 | 84.8 NM_001005333.1 |
| 121.8 | 119.9 | 122.2 | 108.3 NM_014599.4 |
| 98.1 | 87.1 | 107.6 | 89.9 NM_177433.1 |
| 125.5 | 109.1 | 114 | 115.1 NM_201222.1 |
| 105.8 | 92.5 | 93.2 | 87.4 NM_201222.1 |
| 106 | 123.3 | 117.3 | 97 NM_030801.2 |
| 136.9 | 134.7 | 139.4 | 129.2 NM_020932.1 |
| 95 | 87.8 | 85.3 | 89.1 NM_138703.3 |
| 100.1 | 130.2 | 124.4 | 107 NM_022149.4 |
| 120.8 | 122.3 | 129.4 | 97.2 NM_014061.3 |
| 81.5 | 87.9 | 84.2 | 83.7 NM_001033057.1 |
| 76.8 | 73.4 | 76.7 | 79.4 NM_015520.1 |
| 83.3 | 85.2 | 79.4 | 83.9 NM_004742.2 |
| 82.9 | 81.6 | 80.4 | 86.6 NM_012301.3 |
| 86 | 95.3 | 86.5 | 83.2 NM_020965.2 |
| 94.2 | 93.1 | 91.3 | 98.7 NM_020965.2 |
| 1333.5 | 699.1 | 681.9 | 453.7 NM_016069.8 |
| 552.2 | 630.3 | 594.3 | 347 NM_002370.2 |
| 91.2 | 88.9 | 85.7 | 93 NM_005906.3 |
| 110 | 92.1 | 98.5 | 95.7 NM_024635.2 |
| 94.6 | 87.6 | 89.6 | 91 NM_022440.1 |
| 92.8 | 94.1 | 83.5 | 100.2 NM_002371.2 |
| 77.5 | 83.3 | 78 | 75.7 NM_052886.1 |
| 81.6 | 92.3 | 78.7 | 81.1 NR_002819.1 |
| 106 | 90.2 | 85.2 | 91.3 NM_005434.3 |
| 182.6 | 191 | 186.7 | 159.8 NM_173844.1 |
| 87 | 85 | 80.7 | 79 NM_006785.2 |
| 93.4 | 94.8 | 92.2 | 88.2 NM_182830.2 |
| 86.6 | 81.1 | 81.5 | 82.7 NM_153267.3 |
| 105.6 | 117.9 | 111.3 | 106.3 NM_206920.1 |
| 80.5 | 94.2 | 82.5 | 90.7 XM_937023.1 |
| 158.7 | 185.7 | 176 | 163.1 NM_014757.3 |
| 87.8 | 90.1 | 83.8 | 89.3 NM_032427.1 |
| 79.3 | 79.2 | 74.5 | 81.3 NM_018717.3 |
| 157.7 | 132 | 138.7 | 134.1 NM_005907.2 |
| 112.5 | 102 | 96.3 | 100.1 NM_006699.3 |
| 747.4 | 862 | 909.5 | 560.3 NM_016219.2 |
| 184.9 | 144.2 | 149.2 | 131.6 NM_020379.1 |
| 87.2 | 83.7 | 83 | 84 NM_002372.2 |
| 152.7 | 207.3 | 227.4 | 221.3 NM_006122.2 |
| 369.9 | 349.1 | 315.3 | 252.7 NM_000528.2 |
| 282.3 | 281.1 | 311.2 | 184 NM_015274.1 |
| 368.6 | 485 | 487.7 | 445.8 NM_006715.2 |

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|--------|--------|--------|--------|----------------|
| 222.8 | 376.2 | 330.9 | 297.3 | NM_005908.2 |
| 663.2 | 582.3 | 532.2 | 484.8 | NM_022077.3 |
| 96.6 | 98 | 97 | 91.7 | NM_022077.3 |
| 140.7 | 127.9 | 140.2 | 109 | NM_001003897.1 |
| 76.6 | 81.5 | 72.2 | 83.9 | NM_024641.2 |
| 256 | 231.7 | 232.1 | 232.2 | NM_024641.2 |
| 94.4 | 88.9 | 91.3 | 95 | NM_152496.1 |
| 79.1 | 82.9 | 86.7 | 83.5 | NM_001031740.1 |
| 84.1 | 89 | 86.7 | 89.8 | NM_001031740.1 |
| 113 | 104.1 | 98.6 | 91.7 | NM_018050.2 |
| 99.2 | 86.4 | 82.2 | 90.6 | NM_000240.2 |
| 91.2 | 89.1 | 91.1 | 80.3 | NM_000898.3 |
| 135.4 | 129.7 | 124 | 131.3 | NM_002373.4 |
| 89 | 92.4 | 76.2 | 85.4 | NM_032010.1 |
| 185.8 | 220 | 186.5 | 217.8 | NM_032010.1 |
| 102.5 | 92.2 | 98.5 | 86.6 | NM_005909.2 |
| 100.5 | 75.6 | 96.4 | 91.9 | NM_199227.1 |
| 79.8 | 95 | 87.6 | 82.5 | NM_181509.1 |
| 96 | 91.2 | 89 | 83.7 | NM_032514.2 |
| 1151.1 | 1011.1 | 964.8 | 796.4 | NM_181509.1 |
| 477.2 | 360.1 | 297.2 | 250.4 | NM_022818.3 |
| 114.6 | 112.6 | 98.3 | 92.5 | NM_001004343.1 |
| 94 | 83.5 | 88.5 | 90.5 | NM_002374.3 |
| 76.1 | 83 | 85.2 | 79.4 | NM_001039538.1 |
| 99 | 95.5 | 88.8 | 88.8 | NM_031845.1 |
| 96.5 | 101.2 | 94.1 | 97 | NM_002374.3 |
| 567.5 | 606.7 | 525.2 | 476.5 | NM_002755.2 |
| 989.2 | 770.1 | 657 | 786.6 | NM_021970.2 |
| 88.9 | 82 | 76.5 | 87.8 | NM_145109.1 |
| 100.6 | 102.6 | 94.4 | 98.7 | NM_145110.1 |
| 92.5 | 86.5 | 89.3 | 87.9 | NM_002756.2 |
| 94.3 | 99.4 | 94.9 | 92 | XM_944206.1 |
| 235 | 215.9 | 150.1 | 194.2 | NM_003010.2 |
| 234.7 | 212 | 214.3 | 179.5 | NM_002757.2 |
| 117.7 | 118.1 | 124.5 | 106.1 | NM_145160.1 |
| 87 | 99 | 92.6 | 94.2 | NM_002758.2 |
| 131.7 | 120.3 | 125 | 110.8 | NM_145185.2 |
| 83.7 | 83.6 | 74.7 | 83.1 | NM_002446.2 |
| 332.2 | 305.6 | 252.1 | 287.7 | NM_002419.3 |
| 97.1 | 81.7 | 82.7 | 80.4 | NM_006301.2 |
| 89.2 | 96.1 | 82.3 | 91.1 | NM_004721.3 |
| 101.9 | 108.1 | 107.1 | 104.1 | NM_003954.1 |
| 93.4 | 97.1 | 100.5 | 89.9 | NM_001001671.1 |
| 130.4 | 154 | 159.7 | 139 | NM_006609.2 |
| 91.9 | 91.1 | 78.3 | 86.5 | NM_203351.1 |
| 86.8 | 102.6 | 81.7 | 90.2 | NM_005922.2 |
| 1025.3 | 970.6 | 979.2 | 667.4 | NM_006724.2 |
| 223.5 | 286.9 | 270.5 | 191.5 | NM_004672.3 |
| 288.1 | 243.4 | 196.6 | 184.2 | NM_145333.1 |
| 1307 | 1704.6 | 1128.1 | 1344.8 | NM_145331.1 |

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| 97.9 | 99.9 | 94.4 | 96.2 NM_153497.2 |
| 283.6 | 219.1 | 179 | 188.3 NM_006116.2 |
| 95.9 | 96.8 | 86.1 | 92.8 NM_153497.2 |
| 109.1 | 117.4 | 97.3 | 106.2 NM_145342.1 |
| 150.4 | 179.8 | 152.9 | 136.4 NM_005204.2 |
| 83.5 | 89 | 76.8 | 88.3 NM_033141.2 |
| 94.4 | 148.8 | 131.3 | 128.9 NM_002375.3 |
| 89.2 | 85.9 | 90.2 | 88.7 NM_030885.2 |
| 86.2 | 80.6 | 82.2 | 84.8 NM_030884.2 |
| 1227 | 599 | 608.3 | 349.8 NM_007181.3 |
| 637.7 | 351 | 289.5 | 301.8 NM_001042600.1 |
| 1601.7 | 1439.2 | 1478.3 | 715.6 NM_004579.2 |
| 136.6 | 135.3 | 120.9 | 123.5 NM_003618.2 |
| 93.7 | 89.1 | 88.5 | 95.3 NM_145686.2 |
| 227 | 251.6 | 213.1 | 230.4 NM_145687.2 |
| 118.3 | 100.4 | 91.3 | 99.7 NM_006575.3 |
| 210.2 | 167.4 | 146.9 | 148.4 NM_006575.3 |
| 78 | 77.9 | 73.8 | 83.5 NM_033063.1 |
| 85.1 | 89.5 | 76.8 | 86.3 NM_207577.1 |
| 84.4 | 85.6 | 76.4 | 83.7 NM_033063.1 |
| 330.8 | 294.2 | 309.1 | 197.2 NM_024871.1 |
| 114.7 | 133.7 | 118.5 | 118.5 NM_003980.3 |
| 99.5 | 77.6 | 82.1 | 91.4 NM_152780.2 |
| 1937.8 | 1525.7 | 1536.2 | 1021.7 NM_014017.1 |
| 112.8 | 119.7 | 107.9 | 109.4 NM_002745.4 |
| 752.7 | 686.6 | 654.1 | 474.2 NM_138957.2 |
| 418 | 328.8 | 288.8 | 269.3 NM_138957.2 |
| 85.6 | 79.4 | 83.3 | 78.4 NM_138981.1 |
| 98.1 | 103.3 | 94.6 | 97 NM_138980.1 |
| 103.1 | 105.5 | 93.9 | 94.8 NM_138980.1 |
| 93.8 | 86.7 | 84.3 | 92.2 NM_002753.2 |
| 80.8 | 92.5 | 75 | 85 NM_138980.1 |
| 135.8 | 127.2 | 131.8 | 133.4 NM_002751.5 |
| 100.8 | 96.8 | 93.1 | 83.2 NM_138993.2 |
| 201.5 | 161.4 | 145.9 | 136.2 NM_002969.3 |
| 122.6 | 149.7 | 148.2 | 115 NM_002754.3 |
| 101.4 | 85.8 | 94.5 | 89.6 NM_139013.1 |
| 157.5 | 166 | 144.9 | 186 NM_139013.1 |
| 147.5 | 177.3 | 140.9 | 137.4 NM_001315.1 |
| 94.2 | 88.2 | 93.9 | 94 NM_139021.1 |
| 615.8 | 418.6 | 437.2 | 270.3 NM_002746.1 |
| 368.7 | 240.8 | 233 | 211.6 NM_001040056.1 |
| 91.7 | 89.5 | 82.8 | 89.1 NM_002747.3 |
| 1920.6 | 1391.2 | 1278.8 | 1128.4 NM_002748.2 |
| 84.7 | 86 | 96.5 | 96.5 NM_139032.1 |
| 168.3 | 235.2 | 195.1 | 209.3 NM_139034.1 |
| 98.5 | 96.6 | 91.6 | 102.5 NM_002749.2 |
| 101.2 | 94.8 | 96 | 96 NM_002750.2 |
| 91.9 | 90.6 | 89.2 | 84.2 NM_139049.1 |
| 77.5 | 87.2 | 79.9 | 90.8 NM_005456.2 |

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| 84.8 | 75.9 | 85 | 77.7 NM_012324.3 |
| 85.3 | 81.2 | 75.2 | 94.4 NM_012324.3 |
| 86.3 | 86.4 | 81.8 | 90.9 NM_016431.2 |
| 88.9 | 93.2 | 90.5 | 102.1 NM_012324.2 |
| 82 | 82 | 81.7 | 89.1 NM_001040439.1 |
| 293.9 | 336.3 | 305.3 | 324.9 NM_033392.3 |
| 1193 | 1080.4 | 814.5 | 859.5 NM_002752.3 |
| 191.5 | 226.4 | 206.9 | 161.5 NM_001006618.1 |
| 436.4 | 403.7 | 322.7 | 280.4 NM_001006618.1 |
| 101.8 | 87.8 | 85.6 | 92.5 NM_004759.3 |
| 135.9 | 145.7 | 119.2 | 122.9 NM_032960.2 |
| 2559.2 | 2317.1 | 2149 | 1138.4 NM_004635.3 |
| 317.8 | 294.8 | 249.3 | 195.8 NM_139078.1 |
| 107.5 | 125.7 | 121 | 126.8 NM_014994.1 |
| 3171.9 | 2459.6 | 2095.2 | 1533.7 NM_012325.1 |
| 785.4 | 660.3 | 587 | 502.7 NM_014268.1 |
| 123.9 | 112.8 | 113 | 109.5 NM_012326.2 |
| 87.4 | 81.5 | 77.5 | 89.4 NM_016835.2 |
| 86.2 | 83.2 | 88.4 | 87.1 NM_016841.2 |
| 100.3 | 97.2 | 83.8 | 96.2 NM_016834.1 |
| 91.7 | 92.5 | 83.1 | 88.6 NM_017923.2 |
| 163.3 | 182 | 165 | 150.6 NM_001005415.1 |
| 120.8 | 129.9 | 121.4 | 118.4 NM_001005415.1 |
| 96.8 | 100 | 93.9 | 91.7 XM_940510.1 |
| 91.4 | 92.4 | 87.1 | 88.4 NM_016496.4 |
| 118.1 | 135.6 | 162.1 | 134.5 NM_178450.2 |
| 295.2 | 377 | 387.6 | 271.8 NM_178450.2 |
| 290.5 | 389.7 | 373 | 266.3 XM_938009.1 |
| 78.7 | 70 | 71.4 | 82.1 NM_020814.1 |
| 139.8 | 107.6 | 107.9 | 127.5 NM_017824.4 |
| 336.2 | 585.6 | 653.9 | 413.6 NM_005885.2 |
| 2669.5 | 2366.8 | 2309.2 | 1787.8 NM_022826.2 |
| 88.1 | 90.5 | 75.5 | 86.3 NM_001002265.1 |
| 89.8 | 80.6 | 81.1 | 84.4 NM_145021.4 |
| 79.7 | 84.9 | 72 | 77.1 NM_001002266.1 |
| 95.5 | 91 | 95.8 | 88.1 NM_138396.4 |
| 629.8 | 2496.7 | 2312.9 | 1727.1 NM_002356.4 |
| 512.4 | 501.3 | 374.2 | 324.8 NM_023009.4 |
| 96.7 | 107.7 | 104 | 92.8 NM_006770.3 |
| 103.6 | 99 | 89.3 | 93 NM_018650.2 |
| 98.9 | 95.5 | 92.7 | 87.3 NM_004954.2 |
| 93.5 | 89.5 | 80.9 | 96.4 NM_017490.1 |
| 118.7 | 119.7 | 108 | 124.4 NM_004954.3 |
| 267.2 | 216.9 | 217.8 | 221 NM_002376.4 |
| 93 | 88.7 | 87.7 | 77.7 NM_031417.2 |
| 259.3 | 249.3 | 235.6 | 214.5 NM_004990.2 |
| 115.5 | 106 | 93.6 | 95 NM_138395.2 |
| 92.6 | 78.7 | 79.8 | 84.1 NM_144724.1 |
| 97.6 | 89 | 86.4 | 78.3 NM_001038603.1 |
| 82.9 | 86.1 | 78.4 | 87.8 NM_001038603.1 |

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| 93 | 94.8 | 87.3 | 95.9 NM_001017967.2 |
| 84.1 | 83.9 | 84.6 | 86 NM_052858.3 |
| 102.8 | 98 | 89.9 | 94.9 NM_052858.3 |
| 90.8 | 91.3 | 89.1 | 89.5 NM_002377.2 |
| 86.4 | 103.8 | 99.6 | 90.3 NM_052967.1 |
| 1653.1 | 1075.7 | 966.2 | 855.4 NM_021204.1 |
| 617.9 | 505 | 525 | 455.4 NM_016542.2 |
| 113 | 136.2 | 131.8 | 123.3 NM_020690.4 |
| 79.8 | 85 | 85.8 | 90.2 NM_001031849.1 |
| 90.8 | 93.9 | 85.7 | 89.2 NM_139125.2 |
| 78.7 | 83.2 | 75.3 | 76.9 NM_001879.4 |
| 100.1 | 98.9 | 98.8 | 105.7 NM_001031849.1 |
| 95.1 | 94.3 | 83.4 | 95.2 NM_139208.1 |
| 85.5 | 84.4 | 71.7 | 83.2 NM_006610.2 |
| 94.4 | 90.9 | 87.5 | 89.5 NM_139208.1 |
| 83.4 | 87.1 | 80.9 | 89.4 NM_032119.1 |
| 92.8 | 91.5 | 96.3 | 95.7 NM_014975.1 |
| 89.3 | 87.5 | 87.5 | 95.4 NM_015112.1 |
| 151.5 | 133.7 | 147.8 | 130.6 NM_032844.1 |
| 85.1 | 75 | 77.9 | 86.8 NM_000429.2 |
| 5275.2 | 3624.7 | 3807.3 | 2530.8 NM_005911.4 |
| 2077.6 | 1574.4 | 1459.7 | 1638.9 NM_013283.3 |
| 147.7 | 133.3 | 115.6 | 114.6 NM_013283.3 |
| 178.1 | 156.1 | 124.7 | 128 NM_182796.1 |
| 85.8 | 93.3 | 96.3 | 89.6 NM_002378.2 |
| 711.9 | 418.4 | 398.4 | 176.7 NM_139354.2 |
| 131.8 | 101.2 | 86.7 | 101.7 NM_139355.1 |
| 98.2 | 84.8 | 88.9 | 79 NM_002379.2 |
| 85.5 | 97.1 | 85.5 | 83.4 NM_002380.3 |
| 260.5 | 216.7 | 193.4 | 216.7 NM_030583.2 |
| 89.1 | 96 | 87.4 | 87.2 NM_002381.3 |
| 85.6 | 76.9 | 75.4 | 83.4 NM_030590.1 |
| 87.4 | 84.4 | 87.5 | 84.3 NM_003833.2 |
| 70.2 | 82 | 73.2 | 77.9 NM_030592.1 |
| 187.9 | 174.6 | 199.7 | 182.9 NM_199189.1 |
| 115 | 108.3 | 106 | 99.5 NM_018834.4 |
| 2216.8 | 1745 | 1326.2 | 1420 NM_018834.4 |
| 586.9 | 414.5 | 293.4 | 363.1 NM_199189.1 |
| 80.1 | 87.9 | 82.5 | 75.9 NM_022129.3 |
| 91.8 | 93.9 | 84.5 | 93 NM_001033083.1 |
| 108.5 | 95.4 | 95.4 | 102.6 NM_001033083.1 |
| 167.9 | 153.8 | 136.9 | 123.4 NM_145114.1 |
| 112.5 | 112.9 | 95.6 | 111.1 NM_002382.3 |
| 161.1 | 122.1 | 121.3 | 115.6 NM_197957.2 |
| 79.2 | 93.2 | 85.2 | 93.8 NM_145113.1 |
| 81.5 | 78.2 | 78.9 | 87 NM_145116.1 |
| 101 | 103.2 | 99.3 | 90.8 NM_002383.1 |
| 116.1 | 93.1 | 103.6 | 103.8 NM_001042539.1 |
| 246.6 | 234.1 | 181 | 229.5 NM_001042539.1 |
| 108.5 | 92.1 | 87.3 | 91.1 NM_005368.2 |

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| 83.6 | 82.8 | 80.6 | 92.9 NM_203377.1 |
| 87.5 | 93.4 | 96.7 | 88.6 NM_005368.2 |
| 87.3 | 87.2 | 89.5 | 94.7 NM_203378.1 |
| 208.9 | 252.8 | 215.4 | 184.9 NM_015844.1 |
| 297.2 | 305.1 | 251.2 | 230.9 NM_015845.2 |
| 85.5 | 85.3 | 86.5 | 87 NM_003927.3 |
| 81.8 | 88.1 | 72.1 | 80.2 NM_015832.3 |
| 87.3 | 95.6 | 94.5 | 93.1 NM_015832.3 |
| 209.1 | 204 | 173.8 | 159.5 NM_003926.5 |
| 74.8 | 77.4 | 79.9 | 74.8 NM_145208.1 |
| 83.9 | 79.4 | 78.9 | 84.7 NM_144614.2 |
| 1553.8 | 1852.7 | 2377.1 | 2021.9 NM_003925.1 |
| 85.5 | 94.2 | 88.3 | 87.5 NM_018328.3 |
| 564.1 | 689.1 | 823.8 | 399.2 NM_052897.3 |
| 275.2 | 220.6 | 196.3 | 186.7 NM_016586.1 |
| 92.8 | 90.4 | 77 | 88.6 NM_000242.1 |
| 779.4 | 487 | 392.4 | 675.7 NM_207295.1 |
| 1542.3 | 1189.6 | 1324.5 | 989.5 NM_207293.1 |
| 95.2 | 93.2 | 90.7 | 91.1 NM_207293.1 |
| 90.4 | 84.7 | 88.4 | 88.5 NM_144778.2 |
| 88 | 86.4 | 74.9 | 86 NM_207304.1 |
| 85.5 | 95.9 | 84.7 | 87.3 NM_144778.2 |
| 88.7 | 82.6 | 84.3 | 95.8 NM_133486.1 |
| 85.8 | 80.2 | 81.1 | 81.1 NM_018388.2 |
| 81.5 | 82.4 | 74.8 | 73.7 NM_001080480.1 |
| 129.9 | 143.1 | 129.2 | 127.3 NM_138799.2 |
| 396.5 | 515.1 | 494.1 | 366.9 NM_001025090.1 |
| 2260.7 | 3230.2 | 3278.5 | 1709.2 NM_001025100.1 |
| 364.8 | 481.9 | 442.1 | 328 NM_001025101.1 |
| 124.3 | 151.6 | 137.8 | 141 NM_017643.1 |
| 793.7 | 877.5 | 687.6 | 746.8 NM_201268.1 |
| 115.4 | 136.6 | 137 | 131.5 NM_003791.2 |
| 151.4 | 153.8 | 137 | 128.8 NM_015884.1 |
| 183 | 163.2 | 156.7 | 125.2 NM_002386.2 |
| 87.9 | 77.6 | 77.1 | 85.5 NM_000529.2 |
| 84 | 86.1 | 85.4 | 86 NM_019888.2 |
| 90.9 | 91.2 | 94.4 | 92.4 NM_005912.1 |
| 83.3 | 84.4 | 77.2 | 78.2 NM_005913.1 |
| 83.3 | 75 | 72.7 | 79.7 NM_006500.2 |
| 133 | 106.3 | 92.5 | 121.9 NM_033412.2 |
| 91.5 | 87.1 | 69.7 | 91.4 NM_001034172.1 |
| 91.6 | 89 | 94.9 | 101.2 NM_001012755.1 |
| 86.2 | 96.2 | 87.6 | 86.5 NM_002387.1 |
| 750.9 | 891.2 | 711 | 786.6 NM_020166.2 |
| 221.8 | 148.9 | 106.8 | 127.1 NM_022132.3 |
| 101.1 | 107.2 | 107.1 | 106.2 NM_001011700.1 |
| 569.5 | 651.4 | 733.1 | 508.1 NM_032601.2 |
| 3998.7 | 2399.1 | 1908.3 | 1165.5 NM_174918.1 |
| 92.7 | 84.6 | 84.7 | 80.1 NM_005369.2 |
| 88.6 | 92.4 | 87.9 | 87.4 NM_024979.2 |

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| 93.2 | 89.5 | 92.3 | 89.7 NM_015078.2 |
| 125.1 | 123.2 | 114.8 | 124.7 NM_139279.3 |
| 97.1 | 104.6 | 89.3 | 88.4 NM_032503.1 |
| 112.1 | 105.6 | 109 | 108.3 NM_032503.1 |
| 319.7 | 285.6 | 195.9 | 237.7 NM_021960.3 |
| 278.2 | 199.8 | 151.6 | 171.7 NM_021960.3 |
| 288 | 191 | 170.7 | 188.2 NM_018518.3 |
| 1354.3 | 649.7 | 583.2 | 517.2 NM_018518.3 |
| 1907.2 | 1046.9 | 966 | 854.5 NM_004526.2 |
| 10826 | 11996.6 | 8668.7 | 8544.4 NM_002388.3 |
| 451.2 | 620.9 | 626.7 | 378.7 NM_003906.3 |
| 142.8 | 174.8 | 199.1 | 151.7 NR_002776.1 |
| 1032.8 | 543.6 | 530 | 564.7 NM_182746.1 |
| 4399.1 | 2589.2 | 2501.6 | 1793.9 NM_005914.2 |
| 2207.1 | 915.1 | 893.8 | 816.2 NM_006739.2 |
| 9120.1 | 5757.3 | 5763.3 | 3756.8 NM_005915.4 |
| 551.6 | 418 | 385.2 | 353.6 NM_005916.3 |
| 4776 | 3686 | 4004.6 | 2143.3 NM_182776.1 |
| 144.6 | 139.3 | 145.5 | 138 NM_182776.1 |
| 127.2 | 136.3 | 105.6 | 124.3 NM_032485.4 |
| 89.9 | 83.2 | 85.9 | 93.4 NM_182802.1 |
| 882.7 | 1682.4 | 2395.3 | 1384.6 NM_032485.4 |
| 124.6 | 130.6 | 106.1 | 111.4 NM_153255.2 |
| 239.9 | 240.2 | 218.5 | 202.8 NM_020533.1 |
| 2107.4 | 1671.7 | 1602.4 | 1187.7 NM_153259.2 |
| 151.1 | 223.4 | 224.8 | 194.2 NM_018298.9 |
| 174.5 | 151 | 147.7 | 124.3 NM_024596.1 |
| 1270.5 | 845.1 | 774.2 | 477.9 NM_006337.3 |
| 223.4 | 155.8 | 150.3 | 125.2 NM_006337.3 |
| 81.2 | 78.4 | 84.2 | 80 NM_024717.3 |
| 224.3 | 262.4 | 226.3 | 202.2 NM_001002796.1 |
| 80.9 | 91.2 | 87.2 | 82.3 NM_001002796.1 |
| 81.9 | 75.6 | 87.1 | 92.3 NM_018349.2 |
| 255.5 | 238 | 182.5 | 200.4 NM_014060.1 |
| 92.4 | 86.5 | 78.7 | 80.4 NM_139172.1 |
| 309.4 | 332 | 289.2 | 237.3 NM_014641.1 |
| 79.3 | 84.9 | 75.6 | 86.7 NM_005586.2 |
| 235.3 | 209.4 | 156.8 | 162.6 NM_199072.2 |
| 93.8 | 101.4 | 98 | 93.3 NM_153487.2 |
| 9087.1 | 8542.6 | 8080.1 | 6232.6 NM_005917.2 |
| 87.4 | 75.5 | 77.6 | 81.1 NM_206892.1 |
| 16458.9 | 10904.9 | 10835.9 | 7612.9 NM_005918.2 |
| 100 | 88.7 | 90.9 | 91.6 NM_001012334.1 |
| 95.2 | 91.6 | 83.5 | 80.1 NM_001012334.1 |
| 254.9 | 253.7 | 222.5 | 201.3 NM_001012334.1 |
| 94.6 | 88.3 | 78.8 | 86.9 NM_002391.3 |
| 83.9 | 79.6 | 75.1 | 85.1 NM_001012333.1 |
| 93.6 | 89 | 81.8 | 88.3 NM_020128.1 |
| 101 | 94.3 | 88.8 | 80.9 NM_020128.1 |
| 135.1 | 113.2 | 111.8 | 119.9 NM_017440.2 |

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| 124.8 | 143.2 | 124.8 | 127.4 NM_002392.2 |
| 103.7 | 92.7 | 90.8 | 93.6 NM_006879.2 |
| 154.6 | 155.9 | 160.6 | 154.1 NM_002393.1 |
| 125.8 | 140.7 | 118.6 | 115.5 NM_014611.1 |
| 157.4 | 141 | 133.7 | 124.6 NM_138476.2 |
| 236.3 | 211 | 213.1 | 189.1 NM_018463.2 |
| 134.2 | 140.5 | 144.7 | 120.1 NM_018467.2 |
| 86.6 | 89 | 82.2 | 78 NM_004991.1 |
| 642.7 | 655.7 | 563.1 | 782.8 NM_002395.2 |
| 579.7 | 587.1 | 490.8 | 476.8 NM_002396.3 |
| 105 | 100.6 | 96.5 | 92.3 NM_001014811.1 |
| 164 | 199.4 | 194.9 | 175.9 NM_006680.2 |
| 88.9 | 79.7 | 84.2 | 92.8 NM_006680.2 |
| 430.8 | 393.6 | 341.3 | 289.4 NM_014623.2 |
| 110.5 | 103.5 | 101.2 | 119 NM_004992.2 |
| 95.6 | 97.1 | 87.1 | 105 NM_001024732.1 |
| 175.8 | 134.7 | 136.3 | 129.4 NM_016011.2 |
| 153.5 | 280.2 | 226.5 | 201.9 NM_005120.1 |
| 85.8 | 86.7 | 79.7 | 85.4 NM_053002.2 |
| 88 | 93.2 | 88.4 | 91.2 NM_017638.1 |
| 437.4 | 423.2 | 423.6 | 246.1 NM_153450.1 |
| 349.2 | 205.2 | 189.1 | 168.5 NM_030973.2 |
| 1270.6 | 673.3 | 642.9 | 444.4 NM_025205.3 |
| 71.6 | 84.7 | 71.6 | 79.9 NM_016060.1 |
| 820 | 669.3 | 581.7 | 447.3 NM_014166.2 |
| 2030.2 | 1399.8 | 1469.5 | 910.4 NM_005466.2 |
| 456.6 | 453.5 | 395.7 | 333.5 NM_001001651.1 |
| 488.9 | 425.9 | 379.3 | 288.9 NM_001001653.1 |
| 446.6 | 364.1 | 286.7 | 264.1 NM_201542.2 |
| 119.8 | 97.2 | 97.2 | 103.8 NM_018019.2 |
| 122.9 | 116.6 | 125.6 | 110.6 NM_005587.1 |
| 105.6 | 105.8 | 106.4 | 96.2 NM_005919.1 |
| 463.4 | 444.4 | 453.9 | 343.6 NM_002397.2 |
| 1728.9 | 1455.5 | 1697.5 | 689.2 NM_005920.2 |
| 104.2 | 116.9 | 125 | 108 NM_000243.1 |
| 86.9 | 83.6 | 93.1 | 85.4 NR_002766.1 |
| 87.5 | 81.1 | 87.6 | 85.9 XR_000943.1 |
| 82.4 | 89.6 | 81.5 | 83.5 NM_032446.1 |
| 82.6 | 80.7 | 70.2 | 83.8 NM_032445.1 |
| 151.9 | 141.3 | 113.5 | 116.8 NM_001410.1 |
| 84.9 | 90.7 | 82.3 | 92 NM_001080497.1 |
| 131.6 | 120.4 | 129.5 | 109.1 NM_152513.3 |
| 71.9 | 69.8 | 63.9 | 67.9 NM_001080836.1 |
| 343.3 | 262 | 224.5 | 218.7 NM_020149.2 |
| 88.1 | 80.7 | 80.5 | 82.4 NM_170677.2 |
| 79.5 | 78.7 | 78.1 | 83.7 NM_172316.1 |
| 88.9 | 88 | 90.3 | 76.1 NM_002399.2 |
| 84.4 | 87.3 | 80.2 | 90 NM_001009813.1 |
| 325.7 | 241.7 | 229.8 | 211.8 NR_002211.1 |
| 1371.8 | 718.6 | 671.5 | 740.7 NM_014791.2 |

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| 114.5 | 114.8 | 101.6 | 104.4 NM_130803.1 |
| 90.3 | 96.6 | 95 | 91 NM_130803.1 |
| 92.1 | 86.1 | 79.4 | 90.7 NM_130802.1 |
| 200.4 | 183.3 | 166.2 | 159.3 NM_130799.1 |
| 95.5 | 85.5 | 89.2 | 86.2 NM_004527.2 |
| 82.8 | 78.6 | 74.1 | 83.9 NM_004527.2 |
| 87.2 | 91.1 | 84.3 | 87.9 NM_001040002.1 |
| 82.8 | 83 | 78.5 | 81.2 NM_005924.3 |
| 91.3 | 103.1 | 94.8 | 90.4 NM_005588.1 |
| 93.1 | 83.5 | 85.5 | 87.6 NM_005925.1 |
| 94.1 | 94.2 | 88.9 | 99.3 NM_020203.1 |
| 118.2 | 274.2 | 268.3 | 231.5 NM_006343.2 |
| 122.8 | 123.9 | 104.9 | 117.1 NM_022566.1 |
| 98.6 | 82.2 | 80.8 | 85.8 NM_015154.1 |
| 140.5 | 118.9 | 123.1 | 101 NM_018670.1 |
| 84.1 | 77.4 | 81.9 | 81.3 NM_002402.2 |
| 161 | 114.8 | 111.4 | 120 NM_177524.1 |
| 95.5 | 87.9 | 82.7 | 90.9 NM_177525.1 |
| 79.8 | 80.1 | 78.5 | 77 NM_000245.2 |
| 2270.6 | 1329.9 | 1029 | 829.3 NM_015143.1 |
| 2235 | 1731.8 | 1447.1 | 1393.5 NM_006838.2 |
| 149.9 | 131.4 | 92.7 | 101.5 NM_024042.2 |
| 181.9 | 158.5 | 135.8 | 135.1 XM_941466.1 |
| 101.8 | 92.1 | 87.8 | 85.6 NM_001004431.1 |
| 108.9 | 121 | 106.5 | 101.1 NM_001004431.1 |
| 145.6 | 150.9 | 167.2 | 131.9 NM_024086.2 |
| 106.4 | 97.3 | 98.6 | 95.5 NM_001029991.1 |
| 151.7 | 119.9 | 125.5 | 113.3 NM_001029991.1 |
| 99.7 | 102.3 | 100.7 | 95.9 NM_152636.1 |
| 229 | 151.4 | 139.7 | 129.9 NM_005371.3 |
| 81.2 | 87 | 81.2 | 77.4 NM_005371.3 |
| 160.3 | 160.3 | 153.3 | 166.1 NM_181725.2 |
| 102.1 | 110 | 101.5 | 103.3 NM_001005372.1 |
| 108.2 | 99.3 | 105.6 | 103.2 NM_018396.1 |
| 658.3 | 622.4 | 478.5 | 522.3 NM_019852.2 |
| 212.5 | 166.7 | 147.2 | 155.7 NM_022840.2 |
| 2226.8 | 1409.9 | 1252.2 | 1493.5 NM_014168.1 |
| 118.4 | 106.6 | 105.8 | 111.1 NM_152396.1 |
| 113.8 | 99.2 | 120.5 | 92.9 NM_014033.2 |
| 600 | 467.1 | 420.2 | 379.9 NM_152637.1 |
| 111.7 | 105.5 | 99.1 | 110.3 NM_001077180.1 |
| 322.7 | 343.6 | 249.4 | 280.9 NM_005926.2 |
| 90.7 | 83.8 | 88.9 | 85.9 NM_017459.1 |
| 84.3 | 84.5 | 81.3 | 79.5 NM_002403.2 |
| 94.1 | 94.1 | 80.8 | 89.7 NM_017459.1 |
| 212 | 151.6 | 134.3 | 131.2 NM_005927.3 |
| 90.8 | 92.8 | 89.7 | 87.2 NM_021647.5 |
| 91.8 | 87.1 | 87.8 | 94.6 NM_021647.5 |
| 84.7 | 83.8 | 82.4 | 84.8 NM_001009554.1 |
| 98.3 | 187.2 | 208.9 | 125.9 NM_002404.1 |

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| 109.6 | 93.1 | 96.1 | 98.9 NM_003480.2 |
| 347.7 | 440.6 | 528.3 | 230.9 NM_005928.1 |
| 123.9 | 170.1 | 139.4 | 140.1 NM_004225.1 |
| 107.6 | 110.6 | 102.8 | 90.6 NM_033316.2 |
| 125.6 | 121.1 | 129 | 104.9 NM_033316.2 |
| 101.8 | 84.2 | 86.3 | 88 NM_005929.3 |
| 88.7 | 89.9 | 89.8 | 85.8 NM_033540.2 |
| 107.6 | 101.7 | 104.6 | 97.7 NM_017927.2 |
| 247.7 | 314 | 291.6 | 236.2 NM_014874.2 |
| 689.3 | 279.8 | 274.4 | 181.7 NM_002405.2 |
| 93.2 | 84.5 | 82.6 | 89.8 NM_031433.1 |
| 3283.6 | 3203 | 3134.9 | 3389 NM_022736.1 |
| 269 | 217.5 | 195.3 | 179.2 NM_032793.2 |
| 972 | 505.6 | 510.6 | 233.8 NM_138431.1 |
| 84 | 86.8 | 84.4 | 82.9 NM_181644.2 |
| 474.8 | 373.7 | 321.3 | 243.1 NM_032889.2 |
| 106.1 | 89.5 | 86.5 | 94.5 NM_032219.2 |
| 294.4 | 240.6 | 236.4 | 249.5 NM_152778.1 |
| 164.8 | 166 | 160.4 | 190.9 NM_001080541.1 |
| 81.4 | 98.7 | 88.1 | 88.3 NM_004668.1 |
| 78 | 73.3 | 72 | 83.4 NM_004668.1 |
| 942.5 | 1104.5 | 995.6 | 815 NM_002406.2 |
| 1317.2 | 725 | 646.5 | 669.6 NM_002408.3 |
| 101.5 | 105.7 | 90.5 | 87.1 NM_002408.3 |
| 70.3 | 79.2 | 77.9 | 81.4 NM_002409.3 |
| 285 | 290.3 | 283.4 | 291.8 NM_012214.1 |
| 136.5 | 143.5 | 140.8 | 143.9 NM_014275.2 |
| 84.7 | 77.5 | 78.1 | 88.8 NM_054013.1 |
| 311.5 | 234.5 | 210.5 | 222.4 NM_054013.1 |
| 89 | 91.7 | 88.4 | 93.1 NM_013244.2 |
| 98.6 | 102.5 | 88.9 | 97.6 NM_002410.2 |
| 94.1 | 84.6 | 97.2 | 103.4 NM_144677.2 |
| 92.4 | 81.1 | 88 | 82.3 NM_198955.1 |
| 151 | 131.2 | 126 | 114 NM_001029885.1 |
| 873.4 | 632.1 | 532.6 | 626.4 NM_024321.3 |
| 2158.6 | 1585 | 1813.7 | 1001.7 NM_030818.2 |
| 225.5 | 218.3 | 223 | 153.6 NM_032302.2 |
| 237.3 | 145.8 | 143.7 | 109.9 NM_033212.2 |
| 611.5 | 312 | 297.4 | 222.8 NM_030577.1 |
| 1408.3 | 1436.5 | 1416.7 | 1022.2 NR_001565.1 |
| 92 | 86.9 | 89.8 | 94.2 NM_032325.2 |
| 2827.1 | 2258.3 | 2439 | 1391.4 NM_032350.3 |
| 89.9 | 85.1 | 89.6 | 86 NM_024323.3 |
| 103.1 | 90.3 | 88.7 | 90.6 NM_032718.2 |
| 171.8 | 160.5 | 140.6 | 96.6 NM_030819.2 |
| 79.4 | 94.9 | 86.4 | 87.3 NM_001031618.1 |
| 89.1 | 83.7 | 95.1 | 99.6 NM_198519.1 |
| 86.8 | 79.1 | 92 | 86.9 NM_001037163.1 |
| 910.4 | 736.2 | 560.9 | 683.8 XM_935791.1 |
| 550.4 | 399.2 | 319.7 | 327.5 NM_032357.2 |

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|--------|---------|---------|---------|----------------|
| 6353.3 | 7913.9 | 9355.6 | 9601.1 | NM_080656.1 |
| 110.8 | 100.8 | 106.4 | 121.9 | NM_152288.1 |
| 104.3 | 87.9 | 83 | 83.5 | NM_153217.1 |
| 84.9 | 78.6 | 81.5 | 89.9 | NM_001042519.1 |
| 107.3 | 100.2 | 93.6 | 98.5 | NM_032321.1 |
| 259.1 | 175 | 149.5 | 133 | NM_032346.1 |
| 759.9 | 439.6 | 410.9 | 304.6 | NM_032366.2 |
| 147.2 | 111.6 | 99.5 | 110.2 | NM_001040161.1 |
| 200.7 | 182.2 | 165.3 | 142.9 | NM_032725.2 |
| 103.9 | 87.3 | 90.4 | 99.9 | NM_033410.2 |
| 113.3 | 98.2 | 99.8 | 105.5 | NM_199249.1 |
| 1503.4 | 886.5 | 767.9 | 553 | NM_199249.1 |
| 607.3 | 436.9 | 410.5 | 290.3 | NM_016499.2 |
| 355.4 | 297.1 | 288.7 | 193.3 | NM_032928.2 |
| 1619.7 | 1486.7 | 1107.5 | 1016.2 | NM_053045.1 |
| 115.9 | 141.1 | 122.1 | 130.4 | NM_001001870.1 |
| 324.7 | 229.2 | 200.1 | 175 | NM_138418.2 |
| 138.7 | 142 | 148.3 | 123.9 | NM_145056.1 |
| 179.8 | 227.8 | 185.5 | 195.5 | NM_001037984.1 |
| 88 | 91.3 | 78.2 | 87.8 | NM_001037984.1 |
| 502.5 | 426.4 | 357.1 | 280.6 | NM_138570.1 |
| 131.5 | 141.5 | 147.9 | 114.4 | NM_032369.1 |
| 171.4 | 161.9 | 188.7 | 143.4 | NM_032369.1 |
| 178.1 | 191.7 | 163.2 | 156.5 | NM_138381.1 |
| 184.8 | 298.3 | 263.1 | 257.2 | NM_032921.1 |
| 98.7 | 94.8 | 99.6 | 100.7 | NM_153373.1 |
| 151.7 | 276.6 | 251.5 | 250.9 | NM_032886.1 |
| 189.8 | 191.9 | 189.5 | 171.3 | NM_052873.1 |
| 193.9 | 232.1 | 202.9 | 185.7 | NM_033115.2 |
| 98.5 | 101 | 104.4 | 95.3 | NM_032372.3 |
| 82.5 | 77.5 | 85.9 | 89.2 | NM_032770.3 |
| 77.8 | 84 | 85.7 | 83.8 | NM_145038.1 |
| 9753.2 | 13521.8 | 15368.6 | 13165.8 | NM_145042.2 |
| 116.7 | 108.2 | 105.4 | 110 | NM_020314.3 |
| 104.3 | 87.2 | 85.8 | 90.5 | NM_080663.1 |
| 138.9 | 111.2 | 119.3 | 105.7 | NM_052880.3 |
| 95.8 | 105.9 | 105.1 | 107 | NM_206967.1 |
| 191.5 | 106.3 | 96.3 | 107.2 | NM_174926.1 |
| 128.8 | 147.2 | 126.5 | 130.2 | NM_144675.1 |
| 85.5 | 89.2 | 85.5 | 87.3 | XM_927732.1 |
| 242.5 | 173.7 | 184.8 | 124.7 | NM_001031734.1 |
| 89.3 | 101.2 | 95.4 | 81.3 | NM_144975.2 |
| 347.5 | 263.9 | 227.9 | 223.4 | NM_052848.1 |
| 86.4 | 82.8 | 92.9 | 86.6 | NM_145053.3 |
| 120.2 | 118.5 | 112.4 | 106.7 | NM_145045.3 |
| 94.9 | 89.3 | 88.6 | 91 | NM_138492.4 |
| 93.1 | 104.2 | 90.1 | 87.6 | NM_052861.2 |
| 150.4 | 176.9 | 164.9 | 170.2 | NM_182563.2 |
| 95.3 | 98.3 | 87.8 | 95.8 | NM_153238.1 |
| 645.6 | 534.2 | 531.7 | 398.3 | NM_145030.1 |

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| 104.9 | 100.4 | 89 | 92 NM_144683.2 |
| 288.2 | 210.6 | 148.9 | 236.9 NM_174909.1 |
| 90.6 | 79.5 | 88.6 | 82.3 NM_206966.1 |
| 109 | 122.3 | 131.5 | 116.9 NM_144973.2 |
| 272.5 | 177.9 | 150.1 | 137.8 NM_032331.2 |
| 135.1 | 126 | 110.4 | 114.3 NM_001001410.2 |
| 83.5 | 84.3 | 88.4 | 89.2 NM_024070.3 |
| 484.9 | 364.9 | 364.8 | 298.2 NM_152308.1 |
| 99.2 | 90.3 | 87.9 | 86 NM_023931.2 |
| 105.6 | 102.8 | 100.9 | 104.4 NM_153359.1 |
| 422.7 | 342.7 | 350.5 | 268 NM_024109.1 |
| 85.4 | 82 | 84.2 | 95 NM_152706.2 |
| 99.5 | 91.6 | 101.6 | 95 NM_001029999.1 |
| 98.2 | 95.8 | 109.1 | 91.7 NM_144992.4 |
| 75.4 | 74.3 | 73.2 | 82 NM_152613.1 |
| 105.6 | 94 | 98.5 | 97.7 NM_152779.1 |
| 200.5 | 131.3 | 141.1 | 116.8 NM_152339.2 |
| 95.6 | 95.3 | 92.6 | 86 NM_152621.3 |
| 75.5 | 72.2 | 75.7 | 74.9 NM_144979.2 |
| 95.6 | 96.3 | 94.2 | 107 NM_001001343.1 |
| 401.8 | 308 | 279.9 | 227.1 NM_024104.2 |
| 482.2 | 240.1 | 215.7 | 226.8 NM_024069.2 |
| 115.7 | 111.1 | 110.5 | 119.5 NM_023939.3 |
| 446.9 | 298.3 | 263.6 | 238.6 NM_024038.2 |
| 95.8 | 100.1 | 86.4 | 93.8 NM_016459.3 |
| 180.2 | 178.1 | 164.3 | 151.1 NM_182538.3 |
| 4546.2 | 6817.9 | 7345.6 | 4304.6 NM_144618.1 |
| 97.6 | 94.3 | 85.3 | 96.4 NM_024043.2 |
| 888 | 658.9 | 720.3 | 342.1 NM_024031.2 |
| 112.5 | 99.6 | 103.7 | 107.1 NM_177441.1 |
| 235.3 | 237.6 | 190.5 | 187.2 NM_001080501.1 |
| 162 | 137.2 | 135 | 122.4 XM_495878.2 |
| 133.9 | 109.4 | 100.1 | 112.2 NM_174923.1 |
| 851.5 | 639.1 | 618.1 | 579.1 NM_032285.2 |
| 80 | 88.1 | 78.4 | 89.8 NM_032285.2 |
| 199.5 | 176.3 | 145.7 | 151.7 NM_001031727.1 |
| 1276.2 | 768.7 | 810.8 | 712.9 NM_032285.1 |
| 101.2 | 98.3 | 86.8 | 102.6 NM_024028.2 |
| 305.6 | 204.6 | 202.1 | 163.7 NM_152773.2 |
| 1276.3 | 819 | 851.3 | 687.4 NM_152773.2 |
| 100.4 | 94.5 | 79.8 | 100.4 NM_153354.2 |
| 81.8 | 88 | 87.5 | 92.8 NM_178525.2 |
| 85.4 | 84.7 | 84.4 | 93.5 XM_938846.1 |
| 96.3 | 98.9 | 94.3 | 95.8 NM_182546.1 |
| 1179.2 | 409.2 | 382.5 | 356 NM_001004307.1 |
| 149.7 | 148.1 | 139.7 | 142.1 NM_173680.2 |
| 87.4 | 89.8 | 82.1 | 93.9 NM_182539.1 |
| 266 | 231.5 | 237.7 | 250.1 NM_153706.2 |
| 108.2 | 99.3 | 95.5 | 97.7 NM_001029996.1 |
| 440.5 | 476.2 | 484 | 299.6 NM_001001794.1 |

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| 119.7 | 110.7 | 100.9 | 90.8 NM_175885.3 |
| 109.6 | 100.9 | 92.4 | 103.1 NM_145036.1 |
| 75.3 | 82.8 | 76.2 | 81.5 NM_152914.1 |
| 89.4 | 85.3 | 82 | 86.8 NM_173519.1 |
| 94.4 | 92.7 | 90.1 | 92.1 NM_152456.1 |
| 88.8 | 90.5 | 81.6 | 85.7 NM_173637.1 |
| 80.2 | 78.8 | 72.4 | 75.4 NM_173556.2 |
| 99.5 | 91.6 | 97.4 | 81.5 NM_173619.2 |
| 81 | 87.1 | 83.2 | 90.1 NM_203308.1 |
| 84.9 | 92.7 | 83.4 | 88.2 NM_173586.1 |
| 91.5 | 82 | 85.9 | 92.6 NM_173652.1 |
| 105.3 | 99 | 90.6 | 97.5 NM_152314.1 |
| 94.1 | 79 | 91.9 | 78.7 NM_152770.1 |
| 93.2 | 96 | 88.7 | 92 NM_152614.1 |
| 100.8 | 93.6 | 83.7 | 85 NM_178552.2 |
| 2140.5 | 1129.7 | 925.3 | 679.8 NM_152764.1 |
| 87.2 | 82.6 | 77.1 | 93.5 NM_152717.1 |
| 106.6 | 93.6 | 104.3 | 99.3 NM_175922.3 |
| 113.2 | 123.7 | 137.2 | 118.2 NM_147194.1 |
| 96.4 | 100.7 | 93.6 | 101 NM_203307.2 |
| 94.7 | 89.6 | 83 | 87.5 NM_153220.1 |
| 92.7 | 76.7 | 80.5 | 83.7 NM_152436.1 |
| 87.2 | 87.1 | 86.2 | 90.6 NM_152784.2 |
| 84.3 | 91.6 | 74.8 | 88.7 NM_203306.1 |
| 175.6 | 242.3 | 184.1 | 225.5 NM_152549.1 |
| 86.9 | 85.5 | 77.1 | 84.3 NM_152394.2 |
| 94.1 | 91.9 | 98.5 | 100.5 NM_174939.2 |
| 98.6 | 101.1 | 102.3 | 95.9 NM_152628.2 |
| 401.1 | 261.4 | 231.4 | 209.5 XM_936687.1 |
| 102.5 | 101.3 | 92.8 | 89.2 NM_194324.1 |
| 437 | 270.3 | 244 | 209.4 NM_194324.1 |
| 100.7 | 90.3 | 84 | 93.1 NM_182615.1 |
| 84.2 | 83.6 | 84.1 | 90.1 NM_152738.1 |
| 326.4 | 287.3 | 336 | 262.5 NM_152789.1 |
| 362.2 | 352.3 | 338.6 | 242.5 NM_152789.1 |
| 100.8 | 104.9 | 98 | 106.3 NM_152755.1 |
| 132.3 | 117.6 | 124.9 | 111.9 NM_152755.1 |
| 159.5 | 217 | 235.5 | 179.3 NM_152776.1 |
| 178.7 | 157.1 | 144.2 | 123.2 NM_030578.2 |
| 195.4 | 193.1 | 178.2 | 137 NM_024308.2 |
| 95.8 | 95.5 | 99 | 93.9 NM_203299.1 |
| 93.3 | 82.1 | 73.5 | 78.9 NM_203299.1 |
| 91.9 | 90.4 | 85.1 | 98.3 NM_152774.2 |
| 100 | 97.3 | 89.9 | 80.3 NM_153361.2 |
| 183.9 | 184.9 | 178.5 | 149.1 NM_152383.2 |
| 159.2 | 251.6 | 207.4 | 197.4 NM_207362.1 |
| 94.8 | 93.2 | 77.1 | 86.8 NM_032680.2 |
| 189.3 | 152.5 | 146.8 | 146.6 NM_031445.2 |
| 105.4 | 90.7 | 87.5 | 90.5 NM_032315.1 |
| 84.2 | 89.1 | 89.7 | 90.1 NM_001004344.1 |

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| 93.5 | 95.8 | 86.5 | 89 NM_178553.2 |
| 95.8 | 86 | 85.9 | 90.2 NM_152459.2 |
| 91.5 | 85.6 | 83.2 | 88.3 NM_153246.2 |
| 949.8 | 684.7 | 696.9 | 517.7 NM_133375.2 |
| 96.7 | 103.7 | 97.9 | 95.6 NM_178838.3 |
| 209.8 | 398.5 | 408.2 | 309.4 NM_173584.2 |
| 500.7 | 454.8 | 494.5 | 254.1 NM_032326.2 |
| 98.4 | 94.7 | 97.3 | 101.3 NM_174952.1 |
| 86.8 | 80.1 | 82.1 | 90.3 NM_033309.1 |
| 82.8 | 84.5 | 78.5 | 77.4 XM_939115.1 |
| 2909 | 2576 | 2549.9 | 1636 NM_052871.3 |
| 291 | 252.7 | 239.8 | 207.1 NM_198542.1 |
| 188.6 | 168 | 167.2 | 140.4 NM_024122.2 |
| 89.6 | 78.3 | 83.1 | 87.1 NM_203309.1 |
| 100.2 | 78.8 | 75.5 | 83.5 NM_207491.1 |
| 82 | 82.7 | 90.9 | 87.7 NM_178540.3 |
| 83.8 | 78.7 | 76.8 | 79 NM_214461.1 |
| 87 | 95.2 | 77 | 90.4 NM_173566.1 |
| 86.6 | 91.6 | 80.6 | 87.1 NM_173802.2 |
| 87.9 | 71.8 | 82.9 | 90 NM_173806.2 |
| 94.5 | 92.4 | 87.1 | 86.6 NM_203348.1 |
| 87.8 | 82.5 | 85.3 | 91.8 NM_198559.1 |
| 79.9 | 77.9 | 82.3 | 81.4 NM_178571.2 |
| 112.5 | 101.6 | 90.5 | 94.2 XM_934229.1 |
| 113.6 | 93.5 | 94.3 | 100.3 NM_194317.2 |
| 418.8 | 456.7 | 367.8 | 320.9 NM_001008215.1 |
| 308 | 271.2 | 231.6 | 207.3 NM_024033.1 |
| 100.8 | 101.1 | 95.8 | 111.7 NM_001042693.1 |
| 214.4 | 236 | 234.3 | 177.8 NM_024093.1 |
| 100.3 | 103 | 99.9 | 93.8 NM_001004351.2 |
| 85.3 | 82.3 | 76.4 | 83.6 NM_001004351.2 |
| 86.8 | 105.4 | 91.9 | 93.8 NM_199001.1 |
| 490.4 | 456.5 | 433.1 | 377.9 NM_182523.1 |
| 88.9 | 86.8 | 86.1 | 86.6 NM_001004354.1 |
| 104.9 | 96.6 | 90.3 | 107 NM_206894.1 |
| 1107.5 | 821.4 | 727.7 | 672.5 NM_145058.1 |
| 307.4 | 270 | 231.7 | 232 NM_001001795.1 |
| 90.7 | 81.6 | 80.5 | 93.9 NM_203477.1 |
| 123 | 115.7 | 125.4 | 115.3 NM_203302.2 |
| 86.4 | 103.9 | 91.7 | 95.9 NM_203481.1 |
| 99 | 93.4 | 92.4 | 95.6 NM_199285.2 |
| 1202.3 | 639.9 | 615.8 | 480.3 NM_001004333.1 |
| 107.3 | 107.1 | 97.9 | 93.8 NM_199136.1 |
| 115 | 108.7 | 128.9 | 103.7 NR_002822.1 |
| 88.6 | 88 | 85 | 85.7 NM_001004309.1 |
| 103.2 | 100.3 | 99.8 | 95.3 NM_001004306.1 |
| 92.2 | 86.7 | 82.4 | 94.6 NM_001004331.1 |
| 93.4 | 93 | 89.3 | 87.4 NM_001001683.1 |
| 88.2 | 81 | 81.7 | 80.6 NM_152689.2 |
| 755.9 | 579.3 | 537.5 | 422.5 NM_152705.1 |

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| 91.7 | 109.6 | 95.4 | 115 NM_001005209.1 |
| 862.9 | 1110.4 | 1130.6 | 827.5 NM_012215.1 |
| 88.7 | 133.1 | 124.8 | 123.7 NM_007283.5 |
| 91.1 | 96.1 | 97.5 | 91.5 NM_001003794.1 |
| 108.2 | 153.3 | 126.7 | 135.4 NM_007283.5 |
| 539.2 | 316.9 | 426.2 | 247.5 NM_002412.2 |
| 104.7 | 93.7 | 84.6 | 96 NM_000900.2 |
| 329.4 | 218.4 | 178.6 | 206.5 NM_015246.1 |
| 78.7 | 73.5 | 75.9 | 81.8 NM_145764.1 |
| 461.8 | 582.6 | 442.3 | 507.6 NM_020300.3 |
| 221 | 287.6 | 285 | 231.6 NM_145791.1 |
| 1713.3 | 2036.3 | 1484.2 | 1355.4 NM_145792.1 |
| 4094.2 | 2606.9 | 2000.3 | 1804.3 NM_002413.3 |
| 3979.4 | 2555.2 | 2739.4 | 1825.3 NM_004528.2 |
| 90.1 | 80.9 | 82.6 | 74.5 NM_006533.1 |
| 86.5 | 72.2 | 73.9 | 90.9 NM_054024.3 |
| 148 | 143.1 | 135 | 117.5 NM_198551.2 |
| 145.6 | 158 | 124.6 | 154.6 NM_020774.2 |
| 249.4 | 249.3 | 248.1 | 240.2 NM_080875.1 |
| 161.6 | 194 | 158.1 | 175.6 NM_080875.1 |
| 106.9 | 100.1 | 99.9 | 93.7 NM_000247.1 |
| 1103.5 | 948.5 | 933.4 | 864.6 NM_022765.2 |
| 87.5 | 85.1 | 80.1 | 94.9 NM_014632.2 |
| 109 | 127.4 | 116.8 | 137.3 NM_032867.1 |
| 144.9 | 130.5 | 125.3 | 126.9 NM_033386.2 |
| 112.4 | 109 | 102.2 | 113.7 NM_182924.1 |
| 110.3 | 104 | 115.7 | 107.9 NM_182924.1 |
| 300.5 | 285.6 | 241.5 | 160.3 NM_005931.2 |
| 143.5 | 153.5 | 172.5 | 136 NM_000381.1 |
| 89.4 | 85 | 76.6 | 91 NM_033290.1 |
| 93.8 | 98.9 | 87.2 | 88.1 NM_000381.1 |
| 347.4 | 329.4 | 395.9 | 274.2 NM_021242.3 |
| 106.3 | 100.2 | 99.2 | 84.8 NM_052817.1 |
| 106 | 107.6 | 109.5 | 93.2 NM_012216.2 |
| 102.2 | 126.7 | 118.1 | 113.3 NM_052817.1 |
| 392.9 | 358.8 | 321.2 | 241.2 NM_177401.4 |
| 93.2 | 85 | 93.8 | 92.6 NM_001077702.1 |
| 490 | 382.9 | 343.5 | 259.9 NM_020948.1 |
| 4865.3 | 3496.9 | 3963.4 | 2693.3 NM_002415.1 |
| 228.7 | 164.6 | 226.8 | 142.1 NM_020679.2 |
| 1253.9 | 1481.3 | 1176.9 | 939.8 NM_174889.2 |
| 127.2 | 106.5 | 123.6 | 111 NM_153182.1 |
| 97.6 | 95.8 | 86.5 | 80.2 NM_001042533.1 |
| 92.1 | 96.4 | 89.8 | 84.3 NM_153827.3 |
| 84.6 | 85.6 | 88.2 | 87.1 NM_015716.2 |
| 141 | 124.6 | 114.7 | 127.4 NM_004897.2 |
| 95.1 | 91.5 | 83.7 | 83.9 NM_017584.5 |
| 74.2 | 79.1 | 71.5 | 72.3 NM_012064.2 |
| 152.1 | 136.2 | 127.1 | 115.2 NM_005932.1 |
| 87.5 | 83.2 | 88.3 | 93 NM_138731.2 |

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|--------|--------|--------|--------|----------------|
| 436.6 | 335.5 | 277.3 | 292.9 | NM_016641.3 |
| 367.2 | 260.4 | 260.4 | 216.5 | NM_024039.1 |
| 97.5 | 90.1 | 90.2 | 96.8 | NM_052964.1 |
| 100.5 | 112.9 | 114 | 121.6 | NM_198158.1 |
| 82.1 | 80.7 | 77.2 | 92.1 | NM_006722.1 |
| 146.5 | 107.1 | 124.4 | 110.8 | NM_198159.1 |
| 76.1 | 86.6 | 82.5 | 81.8 | NM_031944.1 |
| 103.7 | 107.6 | 100.1 | 83.7 | NM_015517.3 |
| 356.9 | 268.5 | 240.4 | 222.3 | NM_198971.1 |
| 314.3 | 202.2 | 231 | 171.1 | NM_015517.3 |
| 131.4 | 116.9 | 114.2 | 105.2 | NM_002417.2 |
| 1395.5 | 859.8 | 748.4 | 540.3 | NM_032390.3 |
| 188.7 | 179.6 | 200 | 157.4 | NM_170784.1 |
| 468.3 | 532 | 528.3 | 358.9 | NM_018848.2 |
| 74.1 | 73.9 | 81.2 | 83.4 | NM_018848.2 |
| 322.7 | 284.3 | 254.3 | 254.9 | NM_020831.3 |
| 111.7 | 105.6 | 101 | 117.6 | NM_014048.3 |
| 730.5 | 993 | 1034.8 | 687.6 | NM_013255.3 |
| 100.9 | 103.8 | 88.9 | 96 | NM_198973.1 |
| 667.7 | 654.5 | 581.8 | 614.8 | NM_003684.3 |
| 892.5 | 676.2 | 648.1 | 404.6 | NM_017572.2 |
| 171 | 172.1 | 160.1 | 150 | NM_199054.1 |
| 2480.3 | 2147.7 | 1975.6 | 1423.2 | NM_013446.2 |
| 975.4 | 955 | 764.2 | 785 | NM_014160.3 |
| 122.5 | 107.4 | 111.8 | 100.2 | NM_005664.2 |
| 103.7 | 124.2 | 107.7 | 98.2 | NM_017777.1 |
| 74.8 | 74.6 | 79.2 | 87.6 | NM_005511.1 |
| 148 | 148.5 | 131.4 | 130 | NM_015166.2 |
| 204.2 | 153.3 | 159 | 138.4 | NM_015166.2 |
| 231.5 | 213.6 | 180.6 | 173.5 | NM_139202.1 |
| 1145.6 | 934 | 1034.2 | 551.1 | NM_002475.2 |
| 81.6 | 79.7 | 74.7 | 83 | NM_182493.1 |
| 102.9 | 96.1 | 90.9 | 89.8 | NM_022443.2 |
| 106.2 | 114.7 | 110.2 | 120.6 | NM_024629.2 |
| 392.5 | 352 | 270.8 | 258 | NM_005439.1 |
| 472.5 | 422.1 | 374.6 | 280.5 | NM_000249.2 |
| 131 | 107.3 | 113.2 | 104.1 | NM_001040108.1 |
| 121 | 104.3 | 100.7 | 99.7 | NM_014381.1 |
| 366.3 | 279.2 | 241.3 | 205.1 | NM_152649.1 |
| 197.6 | 155.5 | 117.1 | 124.6 | NM_152649.1 |
| 108.7 | 128.6 | 109.6 | 104.7 | NM_005933.2 |
| 101.5 | 84.1 | 81.4 | 83.6 | NM_003482.1 |
| 98.9 | 123.2 | 113 | 116.5 | NM_021230.1 |
| 99.8 | 132.8 | 120.8 | 120.9 | NM_170606.2 |
| 107.6 | 102.6 | 87.6 | 102.5 | NM_170606.2 |
| 225.5 | 247 | 239.6 | 227.7 | NM_170606.2 |
| 235.7 | 231.1 | 194.8 | 189.6 | NM_014727.1 |
| 111.2 | 152.8 | 137.9 | 142.8 | NM_018682.2 |
| 106.5 | 110.8 | 118.1 | 114.2 | NM_182931.2 |
| 215.1 | 291.8 | 375.9 | 257.6 | NM_182931.2 |

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| 104.7 | 87.4 | 92.2 | 84.6 NM_005934.2 |
| 85.9 | 70.5 | 80.8 | 71.3 NM_004641.2 |
| 371.2 | 427.9 | 416.7 | 351.2 NM_004641.2 |
| 119.9 | 120.3 | 122.1 | 122.9 NM_006818.3 |
| 86.6 | 86.1 | 77.7 | 81.1 NM_004529.1 |
| 474.6 | 445.1 | 474.1 | 247.7 NM_005937.2 |
| 131.1 | 157.8 | 167.7 | 133.6 NM_005938.1 |
| 86.5 | 82 | 69.8 | 84.9 NM_002418.2 |
| 96.1 | 92.3 | 86.7 | 83.6 NM_002418.1 |
| 104.7 | 98.3 | 94.8 | 94 NM_001507.1 |
| 95.7 | 103.3 | 90.3 | 98 NM_024101.4 |
| 270.7 | 237.8 | 216.7 | 192.8 NM_018099.3 |
| 553.7 | 681.5 | 529.9 | 544.2 NM_032228.4 |
| 104.6 | 89.3 | 91 | 107.7 NM_198205.1 |
| 225.2 | 228.8 | 207.4 | 179.9 NM_198204.1 |
| 96.8 | 97.4 | 94.3 | 97.4 NM_014938.2 |
| 103.7 | 99.6 | 105.8 | 96.5 NM_032953.2 |
| 128.9 | 131.7 | 125.5 | 100.2 NM_012213.1 |
| 94.7 | 94 | 86.9 | 87.7 NM_031415.1 |
| 97.2 | 83.8 | 75.9 | 85.1 NM_172250.1 |
| 151.6 | 183.1 | 202.7 | 195.3 NM_052845.2 |
| 328.1 | 254.1 | 229.8 | 185.4 NM_015506.1 |
| 795.3 | 630.4 | 504.3 | 427.6 NM_012329.2 |
| 83.7 | 78.1 | 80 | 88.4 NM_198403.2 |
| 99.1 | 83.8 | 89.1 | 94.1 NM_000902.2 |
| 91.7 | 78 | 77.1 | 79 NM_007289.1 |
| 76.8 | 78.3 | 81.4 | 79.9 NM_007288.1 |
| 82.1 | 78 | 81.1 | 80.1 NM_007287.1 |
| 82.4 | 84.6 | 85.3 | 77.7 NM_033467.2 |
| 96.1 | 87.8 | 87.4 | 81 NM_002421.2 |
| 82.4 | 83.2 | 83.3 | 94.8 NM_002425.1 |
| 112.6 | 103.4 | 95.9 | 110.4 NM_005940.3 |
| 79.7 | 89.3 | 79.1 | 82 NM_002426.2 |
| 88.1 | 90.3 | 82.2 | 85.5 NM_002427.2 |
| 100.5 | 90.8 | 93.9 | 100.9 NM_004995.2 |
| 112 | 127 | 125.2 | 107.2 NM_002428.2 |
| 83.7 | 91.3 | 67.4 | 80 NM_022564.1 |
| 79.1 | 75.7 | 86.6 | 84.4 NM_022564.1 |
| 94.2 | 93.3 | 77.8 | 85.8 NM_005941.2 |
| 97.9 | 92.8 | 90.5 | 86.3 NM_016155.3 |
| 96.2 | 97.6 | 87.2 | 95.2 XM_938761.1 |
| 91.8 | 90.7 | 87.8 | 83.4 NM_001032360.1 |
| 110.9 | 117.6 | 98.8 | 105 NM_004530.2 |
| 95.4 | 91.1 | 84.6 | 83.4 NM_004771.3 |
| 82.5 | 83.2 | 78.2 | 86.7 NM_147191.1 |
| 82 | 78.6 | 77.2 | 83.8 NR_002946.1 |
| 117.3 | 122.1 | 131.7 | 100.4 NM_006983.1 |
| 94.5 | 87.1 | 84.5 | 88.4 NM_006690.3 |
| 91.8 | 85.1 | 91.2 | 96 NM_022468.4 |
| 148.4 | 121 | 137.6 | 103.8 NM_022718.2 |

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| 87.3 | 85.7 | 81.7 | 88.4 NM_021801.3 |
| 98.2 | 89.4 | 88.1 | 90.1 NM_022122.2 |
| 98.5 | 82.6 | 84 | 86.1 NM_024302.3 |
| 91.4 | 89.3 | 81.5 | 82.8 NM_001032278.1 |
| 107 | 90.7 | 95.3 | 86.5 NM_002422.3 |
| 83.7 | 88 | 72.2 | 79.2 NM_002423.3 |
| 81 | 72.6 | 72.5 | 83.4 NM_002424.1 |
| 126.4 | 378.7 | 330.4 | 264.8 NM_004994.2 |
| 96.3 | 82.5 | 87.7 | 90.4 NM_007351.2 |
| 88.8 | 86.6 | 85.1 | 75.5 NM_024756.1 |
| 764 | 624.7 | 652.9 | 428.1 NM_022362.2 |
| 92.2 | 84.8 | 89.1 | 90.8 NM_002430.2 |
| 152.7 | 129.8 | 117.9 | 126.8 NM_018835.1 |
| 126 | 119.1 | 138.9 | 134.8 NM_002431.2 |
| 505.4 | 274.7 | 304 | 238.1 NM_032117.2 |
| 744.3 | 804 | 578.4 | 570.2 NM_002432.1 |
| 203 | 210.7 | 180.9 | 191.5 NM_018365.1 |
| 213.3 | 247.4 | 243.4 | 192.4 NM_020310.2 |
| 254.5 | 310.8 | 242.6 | 324.4 NM_022151.4 |
| 96.9 | 99.4 | 94.7 | 87.5 NM_018221.1 |
| 90.8 | 91.7 | 85.9 | 94.3 NM_173468.2 |
| 335.9 | 305.2 | 281.3 | 177.8 NM_130807.2 |
| 83.5 | 74.1 | 67.5 | 79.9 NM_024761.3 |
| 97.1 | 95.6 | 87.2 | 88.5 NM_201403.1 |
| 247.9 | 301.6 | 376.8 | 205.5 NM_201403.1 |
| 94.9 | 76.3 | 86.7 | 87.8 NM_145279.3 |
| 85.4 | 80.3 | 80.1 | 80.8 NM_006501.1 |
| 82.7 | 78.8 | 80 | 82.4 NM_182935.2 |
| 88.9 | 82.2 | 79 | 95.5 NM_182935.2 |
| 91.8 | 92.6 | 85.2 | 91.6 NM_182935.2 |
| 175.6 | 171.1 | 155.4 | 138.5 NM_017947.1 |
| 159.5 | 172.9 | 140.9 | 123.2 NM_001075098.1 |
| 109.3 | 85.9 | 87.3 | 85 NM_138928.1 |
| 221.5 | 110.1 | 107.8 | 99.2 NM_001075098.1 |
| 90.4 | 87 | 82.1 | 86.9 NM_004531.3 |
| 97.6 | 104.9 | 83.9 | 95.2 NM_176806.2 |
| 285.2 | 337 | 257.5 | 256.8 NM_176806.2 |
| 122.9 | 110.4 | 110.2 | 98.2 NM_014484.3 |
| 83.1 | 91 | 79 | 79.9 NM_002433.3 |
| 100.5 | 102.6 | 100.2 | 98.2 NM_058165.1 |
| 93.3 | 96.1 | 88.1 | 92.9 NM_025098.2 |
| 94.1 | 94.1 | 81.2 | 95.5 NM_178176.2 |
| 122.2 | 84.7 | 104.1 | 106 NM_032355.2 |
| 252.9 | 213.1 | 209 | 190.3 NM_014940.2 |
| 317.2 | 417 | 409.9 | 375.8 NM_015026.1 |
| 98.1 | 92.3 | 87.2 | 100.5 NM_014429.2 |
| 406.9 | 395.9 | 347 | 366.9 NM_014941.1 |
| 201.2 | 186.4 | 156.4 | 201.5 NM_015358.1 |
| 109.1 | 104.1 | 95 | 99 NM_024657.2 |
| 87.9 | 91.1 | 82.4 | 92.4 NM_006792.2 |

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| 1486.6 | 1350.5 | 945.8 | 1204 NM_006791.2 |
| 94.1 | 88.3 | 88.4 | 84.2 NM_206839.1 |
| 158.3 | 142.7 | 170.8 | 124.6 NM_032332.2 |
| 87.7 | 80.3 | 82.6 | 86.8 NM_024848.1 |
| 89.7 | 91 | 87 | 87.9 NM_173855.3 |
| 86.4 | 85 | 71.9 | 81.3 NM_005372.1 |
| 467.6 | 1208.8 | 852.6 | 772 NM_022746.2 |
| 112.2 | 160 | 151.8 | 143.2 NM_017898.3 |
| 104.1 | 103.7 | 117.6 | 98.8 NM_152581.1 |
| 309 | 287.4 | 218 | 215 NM_023948.3 |
| 219.9 | 198.2 | 220.2 | 170.8 NM_023948.3 |
| 250.9 | 197.7 | 188.9 | 181.1 NM_020963.1 |
| 97.8 | 98.6 | 91 | 89.8 NM_018995.1 |
| 150.2 | 174.2 | 199 | 169.5 NM_015529.1 |
| 129.3 | 129.2 | 122.5 | 114.8 NM_001031699.1 |
| 174.9 | 156.3 | 133 | 119.5 NM_004870.2 |
| 98.2 | 95.4 | 79.5 | 88.3 NM_003829.1 |
| 94.9 | 104.5 | 103.6 | 86.3 NM_001025190.1 |
| 99.3 | 92.4 | 94.8 | 93.2 NM_001015054.1 |
| 99.8 | 94.7 | 92.8 | 94.7 NM_001015052.1 |
| 98.8 | 100.1 | 97.3 | 108.6 NM_002434.2 |
| 1069.7 | 662 | 584.3 | 471.6 NM_016195.2 |
| 93.6 | 84.7 | 77.5 | 98.1 NM_005791.1 |
| 161 | 130.4 | 125.7 | 127.7 NM_005792.1 |
| 111.8 | 123.4 | 120.8 | 119.3 NM_002435.1 |
| 90.8 | 86.7 | 83.6 | 96.6 NM_005373.1 |
| 95.2 | 97.7 | 81.4 | 92.1 NM_183062.2 |
| 124 | 124.2 | 123.4 | 111.8 NM_032868.2 |
| 152.1 | 192.7 | 197.1 | 161.4 NM_000250.1 |
| 351.6 | 379.1 | 339.5 | 332.1 NM_002436.2 |
| 113.7 | 104.7 | 102.4 | 98.6 NM_005374.3 |
| 129.1 | 144.6 | 140 | 133.3 NM_001932.2 |
| 85.3 | 72.6 | 72.5 | 80.7 NM_033066.1 |
| 187.8 | 231.1 | 199.7 | 194.7 NM_022474.2 |
| 303.4 | 188.7 | 154.2 | 144.3 NM_016447.2 |
| 80.5 | 89.5 | 82.3 | 86.8 NM_173496.2 |
| 1139.8 | 986.9 | 988 | 717.1 NM_023075.3 |
| 91.5 | 87.6 | 83.3 | 91.9 NM_001585.2 |
| 83.1 | 85.9 | 70.3 | 84.6 NM_001584.1 |
| 99.9 | 104 | 109 | 99.8 NM_001013440.1 |
| 298.9 | 292.3 | 269.5 | 248.8 NM_001013436.1 |
| 104.6 | 101.3 | 113.1 | 104.2 NM_001013436.1 |
| 613.7 | 490.1 | 415.5 | 348.2 NM_002437.3 |
| 93.6 | 89.7 | 94.4 | 85.4 NM_000530.3 |
| 85.1 | 87.6 | 77.2 | 84.7 NM_003953.4 |
| 148 | 167.1 | 151.9 | 142.9 NM_024569.3 |
| 465.7 | 367.7 | 332.9 | 246.8 NM_001531.1 |
| 78.8 | 78.8 | 76.9 | 81.7 NM_206898.1 |
| 97.8 | 94.1 | 91.4 | 99 NM_178817.3 |
| 164.7 | 131 | 100.4 | 121.3 NM_012219.2 |

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| 86.5 | 75.7 | 74.7 | 84.5 NM_002438.1 |
| 91.3 | 77.1 | 80.4 | 81.9 NM_001009567.1 |
| 139.7 | 163.9 | 145.9 | 114.3 NM_006039.2 |
| 16452.9 | 10801.6 | 9182.6 | 12416.2 NM_006471.2 |
| 117.8 | 107.6 | 98.5 | 106.6 NM_005590.3 |
| 167.4 | 169 | 140.6 | 132.6 NM_005590.3 |
| 255.7 | 221.3 | 209.7 | 225.2 NM_005591.3 |
| 2818.5 | 2412.7 | 1946.5 | 1823.6 NM_033296.1 |
| 1646.7 | 1595.1 | 1517.2 | 1015.8 NM_152301.3 |
| 161.7 | 138.9 | 152.6 | 129.9 NM_203462.1 |
| 107.5 | 93.6 | 103.9 | 103.2 NM_152301.3 |
| 87.1 | 87.6 | 85.8 | 97.5 NM_198923.2 |
| 107.1 | 98.6 | 100.8 | 90.7 NM_001039165.1 |
| 102.2 | 98.5 | 104.6 | 97.5 NM_145015.2 |
| 83.9 | 83.3 | 72.9 | 84.1 NM_147199.2 |
| 79.8 | 90 | 93.7 | 83.2 NM_054030.2 |
| 103.7 | 97.5 | 88.5 | 93.4 NM_054031.2 |
| 95.1 | 86.2 | 85.7 | 93.6 NM_054032.2 |
| 97 | 105.5 | 106.9 | 90.7 NM_201274.2 |
| 280.9 | 381.7 | 307.8 | 264.4 NM_201274.2 |
| 5760.1 | 4755.7 | 3818.6 | 3074.7 NM_033546.2 |
| 100.3 | 83.2 | 80.3 | 93.3 NM_024864.3 |
| 72.3 | 81.3 | 85.4 | 87.4 NM_031939.2 |
| 211.6 | 230.7 | 245.1 | 182.7 NM_024026.4 |
| 236.7 | 220.1 | 174.9 | 178.8 NM_020236.2 |
| 153.4 | 124.7 | 129.8 | 120.2 NM_145255.2 |
| 96.8 | 99.8 | 90.2 | 91.1 NM_145255.2 |
| 644.5 | 519.5 | 509.4 | 295.4 NM_016050.2 |
| 92.9 | 96.1 | 92.6 | 91.9 NM_170739.1 |
| 2079.2 | 1356 | 1259.4 | 1060.1 NM_016050.2 |
| 1204.2 | 981.9 | 823.5 | 859.7 NM_002949.2 |
| 877.7 | 664.3 | 474.5 | 471.1 NM_014078.4 |
| 2200.1 | 1641.8 | 1540.1 | 1138.5 NM_032111.2 |
| 1061.3 | 673.5 | 444.8 | 529.6 NM_014175.2 |
| 149.6 | 162.6 | 160.1 | 169.9 NM_017840.2 |
| 919.8 | 649.5 | 538.9 | 345.2 NM_022061.2 |
| 2455.4 | 2106.3 | 2676.8 | 2722.6 NM_014161.2 |
| 120.9 | 104.5 | 111 | 98.8 NM_014763.2 |
| 427.8 | 397.8 | 289.6 | 280.8 NM_015950.3 |
| 626.6 | 589.6 | 586.4 | 327.2 NM_017971.2 |
| 1048.1 | 819.5 | 796.4 | 579.2 NM_181514.1 |
| 1465.4 | 1104.7 | 920.9 | 1059.7 NM_181513.1 |
| 1114 | 816.7 | 737.9 | 563.3 NM_014180.2 |
| 2038.7 | 1600.4 | 1544.8 | 1096 NM_001014990.1 |
| 3200.8 | 2188 | 2142.6 | 1620.2 NM_021134.2 |
| 424.1 | 266.8 | 277 | 229.8 NM_024540.2 |
| 2247.7 | 1826.1 | 1537.1 | 1106.7 NM_024540.2 |
| 662.7 | 653.2 | 639.8 | 474 NM_016504.2 |
| 81 | 91 | 85.5 | 88.3 NM_148570.1 |
| 125.4 | 128.8 | 111.1 | 117 NM_148571.1 |

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| 223.8 | 183.2 | 159.3 | 134.9 | NM_006428.3 |
| 116.4 | 102.9 | 99.6 | 104.3 | NM_007208.2 |
| 107.9 | 112.7 | 99.9 | 102.1 | NM_145212.1 |
| 288.9 | 244.3 | 204.5 | 223.7 | NM_145213.1 |
| 557.7 | 416.2 | 324.9 | 335.9 | NM_031903.1 |
| 1622.6 | 1230.2 | 945.2 | 1097 | NM_004891.2 |
| 5665.1 | 4989.6 | 3860.7 | 3688.8 | NM_004891.2 |
| 573 | 474.2 | 411 | 324.1 | NM_023937.2 |
| 2273.8 | 1641.8 | 1178.7 | 889.6 | NM_145644.1 |
| 276.1 | 257.8 | 243 | 185.3 | NM_145644.1 |
| 263.7 | 203.4 | 160.5 | 190.5 | NM_016622.2 |
| 1658 | 1332.7 | 1093 | 785.1 | NM_032479.2 |
| 4858.5 | 3879.7 | 4055.7 | 2065.3 | NM_016491.2 |
| 218 | 190.2 | 188.1 | 188.3 | NM_032478.2 |
| 104.5 | 101.8 | 102.3 | 107.3 | NM_080794.2 |
| 1116.9 | 834.3 | 727.6 | 665.5 | NM_017446.2 |
| 92.2 | 86.7 | 91.4 | 85.9 | NM_146388.1 |
| 192.5 | 133.5 | 123.5 | 113.7 | NM_146387.1 |
| 203.8 | 151.4 | 123.4 | 129.6 | NM_015956.2 |
| 744.6 | 689.3 | 566.1 | 575.3 | NM_003776.2 |
| 1460.8 | 1112.3 | 999.5 | 751.6 | NM_032477.1 |
| 191.7 | 186.9 | 135.7 | 154.1 | NM_172177.1 |
| 94 | 93.6 | 98 | 101.4 | NR_002208.1 |
| 703.7 | 526.5 | 410.4 | 416.5 | NM_032112.2 |
| 110 | 99.3 | 103.8 | 94.7 | NM_176792.1 |
| 261.2 | 156 | 148.8 | 144.2 | NM_032112.2 |
| 94.3 | 97.7 | 87.1 | 88 | NM_022915.2 |
| 691 | 482.2 | 455.9 | 390.7 | NM_032351.3 |
| 525.4 | 379.6 | 379.3 | 350 | NM_032351.3 |
| 828.3 | 735.8 | 677 | 550.5 | NM_022163.2 |
| 194.6 | 115.8 | 118.1 | 146.5 | NM_020409.2 |
| 298.6 | 207.3 | 178.1 | 175.5 | NM_177988.1 |
| 321.8 | 256.7 | 207.8 | 227.6 | NM_016055.4 |
| 354 | 212 | 200.6 | 160.5 | NM_004927.2 |
| 878.5 | 508.1 | 388.8 | 424.1 | NM_019051.1 |
| 1614.9 | 1201.6 | 1116.9 | 744.5 | NM_016497.2 |
| 704 | 400.7 | 372.8 | 252.6 | NM_180981.1 |
| 406.8 | 230.9 | 240.8 | 182.5 | NM_181306.1 |
| 481.1 | 352.5 | 332.5 | 240.1 | NM_053050.2 |
| 905.5 | 547.3 | 535.1 | 443.6 | NM_172251.1 |
| 899.1 | 505.6 | 572.8 | 448.9 | NM_181462.1 |
| 723 | 562.7 | 551.5 | 404.9 | NM_181464.1 |
| 1066.9 | 715.7 | 664.4 | 612.8 | NM_181463.1 |
| 474.3 | 385.6 | 384.2 | 323.7 | NM_031420.2 |
| 3095 | 2184.1 | 2379.4 | 1449.2 | NM_018141.2 |
| 1166.4 | 1146.6 | 1115.6 | 748.3 | NM_176805.1 |
| 538.7 | 543.9 | 581 | 373.1 | NM_176805.1 |
| 1403.9 | 909.1 | 848.8 | 470.8 | NM_033363.1 |
| 87.2 | 80 | 82.5 | 85.1 | NM_033362.2 |
| 631.5 | 374 | 282.5 | 279.2 | NM_033363.1 |

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| 190 | 116.5 | 109.9 | 106.5 NM_021107.1 |
| 147.1 | 133.7 | 115.6 | 115 NM_022100.1 |
| 1350.9 | 1057.8 | 1049.8 | 916.3 NM_031280.2 |
| 438.2 | 367.4 | 382.1 | 250.2 NM_016065.3 |
| 854.3 | 622.8 | 577.8 | 428.5 NM_015969.2 |
| 317.9 | 303.5 | 341.1 | 163.6 NM_018135.2 |
| 477.9 | 363.7 | 315.2 | 275.3 NM_014046.2 |
| 86.4 | 85.2 | 83.9 | 88.6 NM_016067.1 |
| 575.5 | 362.9 | 294.5 | 254.6 NM_016034.2 |
| 1896.5 | 1336.4 | 1408.4 | 1220 NM_031901.3 |
| 793.4 | 563.9 | 576.6 | 410.8 NM_018997.1 |
| 2335 | 1993.5 | 1700.2 | 1376.9 NM_020191.2 |
| 337.9 | 281.5 | 242.8 | 229.7 NM_016070.2 |
| 2610.3 | 1972.4 | 1729.4 | 1523.1 NM_032014.1 |
| 346 | 212.8 | 232.4 | 167.5 NM_030811.3 |
| 1056.2 | 720.8 | 565 | 604.9 NM_015084.1 |
| 642 | 359.9 | 362.1 | 321.7 NM_014018.2 |
| 1892.2 | 1285.3 | 1131 | 982 NM_016640.3 |
| 761.1 | 764.2 | 755.8 | 584 NM_005830.2 |
| 1719.8 | 1424.2 | 1094.9 | 1198.6 NM_016071.2 |
| 143.7 | 142.2 | 144 | 134 NM_016071.2 |
| 284.2 | 212.9 | 195.5 | 167.7 NM_023936.1 |
| 488.3 | 327 | 259.9 | 267 NM_021821.2 |
| 176.2 | 147 | 146.1 | 145.9 NM_033281.5 |
| 603.6 | 614.4 | 520.1 | 526.7 NM_031902.3 |
| 3488.8 | 4067.7 | 3682.9 | 2721.6 NM_032476.2 |
| 538.4 | 613.3 | 537.2 | 362 NM_015971.2 |
| 1213.9 | 868.7 | 794.8 | 626.5 NM_182640.1 |
| 496.6 | 377.8 | 315.9 | 261.3 NM_138777.2 |
| 922.5 | 500.1 | 472.7 | 334.8 NM_138777.2 |
| 120.3 | 102 | 94.3 | 104.2 NM_138777.2 |
| 164.4 | 162.3 | 138.3 | 147 NM_020662.1 |
| 70.5 | 75.4 | 86 | 88.4 NM_130385.1 |
| 107.5 | 116.9 | 112.7 | 106.6 NM_130385.1 |
| 104.8 | 95.5 | 92.1 | 89.2 NM_021950.3 |
| 86.4 | 77.4 | 81.7 | 82.6 NM_152866.2 |
| 69.1 | 71.8 | 75.2 | 81.2 NM_152866.2 |
| 87.4 | 82.2 | 76.9 | 85.6 NM_206893.1 |
| 86.9 | 83.3 | 87.2 | 91.1 NM_017716.1 |
| 92.5 | 89.3 | 75.5 | 89.2 NM_001012417.1 |
| 88 | 94.5 | 93.3 | 93.1 NM_000139.2 |
| 604 | 2244.3 | 1717 | 1396.5 NM_006138.4 |
| 94.3 | 120.7 | 120.2 | 106.8 NM_001031666.1 |
| 1721.3 | 4749 | 4395.3 | 3986.2 NM_006138.4 |
| 86.2 | 75.2 | 88.9 | 92.8 NM_148975.1 |
| 80 | 92.2 | 90.8 | 83.9 NM_024021.2 |
| 118.8 | 120 | 113.7 | 121.2 NM_148975.1 |
| 93.7 | 85.7 | 82.5 | 76.4 NM_023945.2 |
| 1766.6 | 5309.4 | 3812 | 3895.4 NM_152851.1 |
| 731.8 | 1897.7 | 1592.3 | 1538.1 NM_152851.1 |

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| 486.5 | 1301.1 | 1152.1 | 731.6 | NM_022349.2 |
| 83.5 | 86.7 | 76.7 | 85.1 | NM_139249.2 |
| 1516.4 | 2613.2 | 2202.4 | 2020.7 | NM_206938.1 |
| 90.1 | 84.8 | 73.4 | 86.8 | NM_031457.1 |
| 929.7 | 333 | 329.2 | 371.9 | NM_005098.2 |
| 96.6 | 90 | 93.1 | 98.2 | NM_000251.1 |
| 10612.7 | 12064.4 | 16889.4 | 12978.5 | NM_002439.2 |
| 98.4 | 97.2 | 95.5 | 85 | NM_002440.2 |
| 124.7 | 133.1 | 166.3 | 119.9 | NM_002441.2 |
| 248.9 | 258.9 | 267.5 | 221.4 | NM_172166.2 |
| 285 | 272.1 | 282.5 | 232.2 | NM_002441.2 |
| 118.6 | 105.6 | 107.4 | 103.7 | NM_025259.3 |
| 218.3 | 213.6 | 245 | 221.2 | XM_936150.1 |
| 1748.2 | 1813.6 | 1563.2 | 1394.4 | NM_000179.1 |
| 101.1 | 101.7 | 90.1 | 109.5 | NM_002442.2 |
| 93.6 | 78.1 | 85.3 | 87.7 | NM_138962.2 |
| 132 | 105.3 | 106.2 | 105.5 | NM_138962.2 |
| 163.1 | 167.6 | 147.2 | 118.5 | NM_170721.1 |
| 101.7 | 86.4 | 86.1 | 89 | NM_018133.2 |
| 289.9 | 364.5 | 322.3 | 350.8 | NM_078630.1 |
| 81.4 | 83.2 | 88.9 | 78.2 | NM_006800.2 |
| 147.9 | 180.2 | 142 | 130.9 | NM_078630.1 |
| 186.5 | 192.6 | 188.4 | 144.8 | NM_078628.1 |
| 107.6 | 93 | 84.6 | 97.1 | NM_013404.3 |
| 92.9 | 89.7 | 85.7 | 91.2 | NM_002443.2 |
| 84 | 80.1 | 81.7 | 88.9 | NM_138634.1 |
| 100 | 88.4 | 92.3 | 90.5 | NM_002443.2 |
| 3696.2 | 6353.6 | 4925.4 | 4930.8 | NM_002444.2 |
| 84.9 | 75.9 | 72.3 | 84.9 | NM_138716.2 |
| 82.4 | 81.6 | 84.9 | 88.8 | NM_002445.2 |
| 86.5 | 82.2 | 89.1 | 87.3 | NM_138715.1 |
| 1188.1 | 588.1 | 547.1 | 342.7 | NM_012331.2 |
| 2202 | 1428.7 | 1636 | 666.1 | NM_012228.2 |
| 93.1 | 138.3 | 117.7 | 117.3 | NM_198080.2 |
| 104 | 173.5 | 152.9 | 155.7 | NM_198080.2 |
| 91.5 | 88.8 | 83.8 | 91.8 | NM_001031679.1 |
| 163.6 | 127.5 | 135.6 | 134.4 | NM_032947.3 |
| 80.7 | 81.3 | 82.5 | 78.3 | NM_002447.1 |
| 549.3 | 408.8 | 361.2 | 340.8 | NM_001042453.1 |
| 92.7 | 96.1 | 92.4 | 88.9 | NR_002729.1 |
| 567 | 283.5 | 279.5 | 235.6 | NM_002448.1 |
| 96.6 | 95.4 | 84.3 | 86.9 | NM_002449.3 |
| 104.3 | 91.2 | 82.9 | 98 | NR_002307.1 |
| 353.6 | 246 | 203.9 | 183.9 | NM_173467.3 |
| 90.1 | 87.5 | 94.1 | 81.5 | NM_173467.3 |
| 2170.4 | 745.4 | 823.4 | 571.1 | NM_005946.2 |
| 106.6 | 96.1 | 91.5 | 94.1 | NM_005947.1 |
| 1940.1 | 642 | 690.4 | 413.7 | NM_175617.3 |
| 4313.1 | 1522.4 | 1567 | 949.2 | NM_005949.1 |
| 811.8 | 182.7 | 162.8 | 139.7 | NM_005950.1 |

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| 227.9 | 111.8 | 108.9 | 104.4 NM_005951.2 |
| 87.2 | 75.3 | 86 | 83.5 NM_176870.1 |
| 81.3 | 85.7 | 76 | 77.3 NM_001039954.2 |
| 2230.9 | 625.6 | 613.1 | 412.5 NM_005952.2 |
| 669.5 | 355.4 | 359.1 | 295.2 NM_005953.2 |
| 101.9 | 94.5 | 95.5 | 100.1 NM_005954.2 |
| 82.2 | 75.4 | 77.2 | 84.6 NM_032935.1 |
| 512.3 | 460.4 | 407.9 | 404.6 NM_004689.2 |
| 671 | 483 | 377.9 | 360.3 NM_004739.2 |
| 212.6 | 164.4 | 156.3 | 136.8 NM_020744.2 |
| 79.8 | 79.5 | 73.6 | 75.6 NM_152332.2 |
| 105.3 | 99 | 99.5 | 93.2 NM_002451.3 |
| 227.8 | 156 | 166.8 | 151.9 NM_022045.2 |
| 7108.6 | 6071.4 | 5514.5 | 4633.1 NM_014341.1 |
| 103.7 | 104.8 | 98.4 | 93.9 NM_014342.2 |
| 517.8 | 581.6 | 479.6 | 535 NM_001018025.2 |
| 840.6 | 630.5 | 403.2 | 531.5 NM_178812.2 |
| 304.3 | 134 | 144.7 | 132.2 NM_175621.2 |
| 88 | 84.4 | 90.8 | 84.1 NM_006980.3 |
| 1084.1 | 543.9 | 492.4 | 393.2 NM_015942.3 |
| 98.1 | 108.1 | 102.6 | 97.3 NM_182501.2 |
| 94 | 91.6 | 89 | 98.4 NM_025198.3 |
| 107.5 | 98.6 | 91.4 | 91.4 NM_025198.3 |
| 316.4 | 436.7 | 354.9 | 456.4 NM_005955.1 |
| 213 | 242.3 | 191 | 245 NM_007358.1 |
| 93.8 | 84.2 | 89.7 | 88.3 NM_139242.2 |
| 722.4 | 478 | 376.7 | 538.3 NM_014637.2 |
| 137.3 | 124.8 | 118.6 | 104.7 NM_138384.1 |
| 237.4 | 207.3 | 187.6 | 148.2 NM_005956.2 |
| 933.9 | 625.3 | 592.8 | 419.7 NM_015440.3 |
| 803.4 | 514.1 | 608.5 | 290.9 NM_006636.2 |
| 78.9 | 83.3 | 78.8 | 81 NM_001040409.1 |
| 2923.6 | 2373 | 1800.3 | 1740.8 NM_001040409.1 |
| 271.8 | 216.2 | 231.3 | 195.6 NM_001004346.2 |
| 131.5 | 182.5 | 182.5 | 178 NM_005957.2 |
| 417.1 | 467.5 | 412.7 | 403 NM_006441.1 |
| 998.1 | 1080 | 884.6 | 840.1 NM_002453.2 |
| 92.4 | 90 | 84.3 | 82.2 NM_001005369.1 |
| 330.9 | 395.9 | 295.4 | 313.3 NM_152912.3 |
| 271.9 | 228.2 | 270.9 | 164 NM_001039656.1 |
| 107 | 101 | 114.3 | 103 NM_004923.2 |
| 384 | 345.3 | 272.7 | 292.4 NM_000252.1 |
| 87.5 | 83.3 | 82 | 93.4 NM_003828.1 |
| 496.5 | 237.5 | 205.6 | 179.2 NM_181873.1 |
| 175.5 | 174.1 | 136.6 | 136.7 NM_019061.2 |
| 224.4 | 206.9 | 226.3 | 191 NM_001077525.1 |
| 268.5 | 282.2 | 274.2 | 252.4 NM_014967.3 |
| 87.2 | 98 | 84.1 | 90 NM_016156.3 |
| 170.8 | 180.7 | 164.4 | 116.9 NM_201281.1 |
| 454.3 | 625.4 | 541.1 | 631.3 NM_153050.1 |

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| 79.5 | 92.4 | 83.9 | 93.5 NM_021090.2 |
| 114.7 | 121.2 | 117 | 124.5 NM_153050.1 |
| 376.7 | 317 | 290 | 289.7 NM_004687.3 |
| 337.3 | 252.4 | 230.9 | 210.9 NM_004685.2 |
| 93.6 | 89.9 | 74.9 | 84 NM_004686.2 |
| 96.3 | 93.9 | 88.1 | 97.8 NM_017677.2 |
| 578.7 | 493 | 458.6 | 305.2 NM_015458.3 |
| 99.2 | 76.5 | 87.5 | 87.1 NM_005958.3 |
| 84.5 | 84.3 | 83.7 | 85.3 NM_005959.3 |
| 97.3 | 100.6 | 92.4 | 94.7 NM_133645.1 |
| 1792.8 | 1429.8 | 1115.5 | 1045.4 NM_012123.2 |
| 191.7 | 157.1 | 135.7 | 134.6 NM_001003704.1 |
| 129.1 | 130.8 | 115.7 | 111.6 NM_016498.3 |
| 746.9 | 456.4 | 409 | 252.5 NM_016498.3 |
| 3954.7 | 3010.3 | 2946.9 | 2421.5 NM_145808.1 |
| 168.2 | 151.4 | 190 | 171.7 NM_000254.1 |
| 139.2 | 110.6 | 124.2 | 132.5 NM_004294.2 |
| 518.2 | 512.2 | 432.1 | 345.5 NM_019041.3 |
| 89.6 | 83.9 | 75.1 | 88.1 NM_024010.1 |
| 144.4 | 120.3 | 113 | 110.7 NM_002454.1 |
| 1120.4 | 850.2 | 745.1 | 609.1 NM_002454.1 |
| 124.5 | 109.5 | 110.5 | 113.2 NM_014751.2 |
| 87.7 | 86.3 | 81.8 | 87.4 NM_000253.1 |
| 88.9 | 78.5 | 78.9 | 80.6 NM_001001931.1 |
| 79.2 | 94.3 | 79.2 | 81.6 NM_020749.3 |
| 92.4 | 77.1 | 82.3 | 88.6 NM_001001924.1 |
| 87.1 | 80.9 | 80.5 | 82.9 NM_001001927.1 |
| 80.1 | 84.4 | 83.8 | 84.9 NM_020749.3 |
| 373.4 | 262.3 | 261 | 191.9 NM_002455.2 |
| 666.1 | 498.2 | 490 | 314.7 NM_002455.2 |
| 728.5 | 824.4 | 768.7 | 674.4 NM_006554.3 |
| 92.9 | 90.7 | 87.1 | 94.4 NM_001006635.1 |
| 343.8 | 408.4 | 316.3 | 358.6 NM_001010891.1 |
| 88.7 | 102.6 | 90.6 | 92.4 NM_002456.4 |
| 140.9 | 127.5 | 163.8 | 136.9 NM_001044390.1 |
| 183.7 | 177.3 | 243.4 | 151.4 NM_001018021.1 |
| 79.8 | 70.4 | 73.2 | 87.5 NM_033049.2 |
| 93.1 | 89.8 | 82.8 | 76.5 NM_145650.2 |
| 96.4 | 88.5 | 86.9 | 81 NM_024690.2 |
| 82.1 | 83.5 | 89.4 | 88.9 NM_001004430.1 |
| 101.5 | 100.8 | 91.6 | 86.1 NM_002457.2 |
| 86.2 | 83.2 | 86.8 | 94.4 NM_152673.1 |
| 87.2 | 86.7 | 76.1 | 82.5 NM_018406.3 |
| 104.4 | 110.9 | 110.2 | 94.9 XM_936261.1 |
| 81.5 | 76.8 | 76.1 | 81.7 NM_018406.3 |
| 98.3 | 79.9 | 85.7 | 91.6 NM_004532.2 |
| 84.4 | 83 | 81.6 | 84.7 NM_152291.1 |
| 88.7 | 87.4 | 86.9 | 91.5 NM_017717.3 |
| 84.4 | 92.7 | 78.5 | 98.2 NM_017717.3 |
| 442.4 | 397.5 | 363.3 | 272.5 NM_018238.2 |

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| 1120.5 | 915.6 | 927.5 | 513.5 NM_032853.2 |
| 91 | 79.1 | 87.9 | 89.9 NM_152423.2 |
| 294.8 | 298.2 | 278.8 | 293.4 NM_025128.3 |
| 150.8 | 149.5 | 121.1 | 122 NM_005592.1 |
| 96.4 | 106.3 | 88.2 | 93.9 NM_205853.1 |
| 93.9 | 83.5 | 81.9 | 93.8 NM_000255.1 |
| 308.2 | 253.4 | 236.3 | 225.4 NM_201280.1 |
| 113.6 | 108.8 | 101.2 | 98.6 NM_012222.2 |
| 614.8 | 421.8 | 441.5 | 259.6 NM_012222.1 |
| 96.6 | 101.9 | 89.9 | 87.4 NM_001048174.1 |
| 183.1 | 169.4 | 166.9 | 182.6 NM_002461.1 |
| 122.6 | 121.2 | 123.8 | 113.6 NM_000431.1 |
| 133.2 | 147.8 | 139.7 | 134 NM_017458.2 |
| 307.6 | 305.4 | 282.3 | 191.6 NM_005115.3 |
| 302.6 | 236.7 | 259 | 186.2 NM_002462.2 |
| 279.9 | 406.8 | 287.4 | 277.3 NM_002463.1 |
| 204.9 | 393.5 | 365.7 | 293.4 NM_002357.2 |
| 204.4 | 180.7 | 168.8 | 139.2 NM_031300.2 |
| 1021.8 | 1127.4 | 1307.7 | 560.7 NM_006454.2 |
| 89.1 | 80.1 | 84.6 | 86.2 NM_005962.4 |
| 85.9 | 81 | 85.6 | 86 NM_001008541.1 |
| 107.3 | 110.8 | 103.3 | 91.1 NM_001008541.1 |
| 116 | 120.9 | 101.2 | 101 NM_130439.3 |
| 119.8 | 92.1 | 104.2 | 90.8 NM_015419.1 |
| 84.9 | 105.9 | 96.3 | 74.7 NM_198530.2 |
| 134.3 | 130.4 | 117.6 | 113.1 NM_001008528.1 |
| 99.4 | 92 | 92.6 | 98 NM_001008529.1 |
| 87.1 | 72 | 83.7 | 81 NM_032348.2 |
| 99.3 | 83.2 | 86.9 | 87.3 NM_001020821.1 |
| 106.7 | 120.5 | 104.6 | 115.7 NM_138373.3 |
| 1813.1 | 1437.4 | 1792.4 | 1033.1 NM_001020820.1 |
| 80.4 | 78.9 | 89.5 | 77.8 NM_207329.1 |
| 6856.1 | 3935.5 | 3669.4 | 2607.7 NM_005375.2 |
| 112.2 | 114.6 | 100.2 | 89.5 NM_014520.1 |
| 97.6 | 93.1 | 95.4 | 81.6 NM_002466.2 |
| 76.5 | 72.3 | 72.8 | 78.1 NM_002465.2 |
| 88.4 | 79.4 | 82.4 | 81.8 NM_206820.1 |
| 80.5 | 98.8 | 91.8 | 82.8 NM_002465.2 |
| 96.1 | 98.7 | 86.4 | 93.6 NM_206821.1 |
| 82.7 | 83.3 | 79.3 | 84.7 NM_004533.2 |
| 113.3 | 130.4 | 131.4 | 116.9 NM_000256.2 |
| 308.6 | 241.4 | 299.3 | 152.8 NM_004997.2 |
| 77.1 | 108.4 | 105.9 | 94.1 NM_001010985.1 |
| 649.3 | 432.4 | 349.2 | 301 NM_002467.3 |
| 135.2 | 108.7 | 108.3 | 110.6 NM_012333.3 |
| 643.6 | 898 | 732.9 | 840.6 NM_015057.2 |
| 99.3 | 106.2 | 99 | 106 NM_032133.2 |
| 93.3 | 95.2 | 81.8 | 87.6 NM_005376.3 |
| 94.2 | 104.5 | 100.9 | 94.4 NM_001033082.1 |
| 91.1 | 84.7 | 86.7 | 80.8 NM_001033081.1 |

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| 80.4 | 77.1 | 82.7 | 88.8 NM_005378.4 |
| 97 | 91.6 | 86.6 | 89.3 NM_025107.1 |
| 335.6 | 318.7 | 280.2 | 248.8 NM_002468.2 |
| 97.6 | 82.7 | 79.2 | 80.9 NM_016132.2 |
| 94 | 86.2 | 82.1 | 92.2 NM_138768.2 |
| 89.6 | 92.7 | 94.2 | 90.7 NM_138336.1 |
| 93.5 | 94.6 | 85.1 | 81.8 NM_005593.1 |
| 95 | 86.3 | 81.9 | 88.9 NM_002469.1 |
| 97.7 | 88.9 | 86.2 | 98.2 NM_005963.3 |
| 197 | 370.7 | 338.5 | 277.7 NM_005964.1 |
| 85.4 | 77.6 | 76.3 | 81.8 NM_001040114.1 |
| 87.1 | 81.4 | 82.6 | 95.1 NM_002474.1 |
| 78.3 | 84.2 | 86.2 | 80.8 NM_003802.1 |
| 97.1 | 87.5 | 91.9 | 93.6 NM_024729.2 |
| 99.1 | 89.8 | 94 | 83.7 NM_001077186.1 |
| 89.1 | 97 | 81.9 | 89.1 NR_002147.2 |
| 92.2 | 80.4 | 80.1 | 80.7 NM_017534.3 |
| 87.7 | 89 | 101.4 | 85.5 NM_002470.1 |
| 151.9 | 116.1 | 124.3 | 120.2 NM_017533.1 |
| 97.2 | 109.4 | 104.9 | 92.7 NM_002471.1 |
| 99.2 | 92 | 93.2 | 92.4 NM_000257.1 |
| 84.2 | 78.3 | 82.3 | 78.1 NM_020884.1 |
| 89.6 | 91.2 | 82.7 | 94.1 NM_002472.1 |
| 5420.4 | 6875.1 | 5718.8 | 5417.3 NM_002473.3 |
| 95 | 93.8 | 86.7 | 92.6 NM_079420.1 |
| 91.1 | 86.8 | 83.9 | 89.6 NM_079420.1 |
| 96.6 | 86.9 | 89.2 | 82.6 NM_000432.2 |
| 83.6 | 78.6 | 88.8 | 85.9 NM_002476.2 |
| 93.7 | 84.2 | 86.7 | 84 NM_001002841.1 |
| 326.8 | 285.4 | 257.4 | 231.9 NM_002477.1 |
| 18485.6 | 21339.2 | 18226.2 | 14278.3 NM_021019.3 |
| 18208.7 | 19754 | 17247.4 | 16521.1 NM_021019.2 |
| 88.3 | 89.8 | 93.3 | 88.6 NM_021223.2 |
| 89.7 | 89.9 | 87.8 | 89.3 NM_006097.3 |
| 115 | 127.7 | 120.6 | 130.6 NM_006097.3 |
| 84.6 | 89.5 | 86.5 | 83.7 NM_138403.3 |
| 319.4 | 516.9 | 536.8 | 336 NM_013262.3 |
| 111 | 114.4 | 106.5 | 114.3 NM_053026.3 |
| 87.6 | 83.3 | 79.6 | 89.1 NM_005965.3 |
| 99.2 | 102.4 | 96 | 89.3 NM_033118.2 |
| 92.3 | 82.9 | 82.8 | 90.5 NM_013292.2 |
| 88.7 | 96.5 | 85.8 | 86.9 NM_018657.3 |
| 110.7 | 125.3 | 121.3 | 117.8 NM_012334.1 |
| 84.2 | 72.2 | 80.3 | 86.4 NM_016239.2 |
| 157.3 | 143 | 183.2 | 144.8 NM_203318.1 |
| 81.9 | 89.3 | 89.2 | 94.7 NM_078471.3 |
| 81.6 | 84.6 | 79.5 | 83.1 NM_032608.5 |
| 111.2 | 111.1 | 111.9 | 101.9 NM_005379.2 |
| 84.5 | 98.8 | 87.2 | 95.1 NM_012223.2 |
| 122.6 | 115.1 | 110.4 | 109 NM_001080779.1 |

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| 85.6 | 75.4 | 80.3 | 76.7 NM_001080779.1 |
| 124.6 | 154.5 | 116.7 | 114 NM_033375.3 |
| 83.1 | 72.7 | 82.3 | 81.3 NM_015194.1 |
| 95.8 | 89 | 80.7 | 90.3 NM_004998.2 |
| 400.2 | 392.2 | 302.5 | 359.7 NM_012335.2 |
| 737.6 | 780.2 | 834 | 689.1 NM_033054.1 |
| 83.4 | 82.1 | 89 | 86.6 NM_017433.3 |
| 167.3 | 169.8 | 223.2 | 214.4 NM_138995.1 |
| 178.6 | 208.1 | 177.5 | 165.9 NM_000259.1 |
| 93.8 | 91.8 | 95.4 | 94.1 NM_001080467.1 |
| 88.8 | 176.1 | 144.3 | 137.8 NM_018728.1 |
| 168.1 | 215 | 234.3 | 180.4 NM_004999.2 |
| 102.5 | 123.4 | 114 | 112.5 NM_000260.1 |
| 92.4 | 83.3 | 85.3 | 92.6 NM_001080527.1 |
| 220.5 | 429.7 | 427.4 | 313.1 NM_006901.1 |
| 310.9 | 289.9 | 272.9 | 229 NM_004145.2 |
| 85.5 | 80.6 | 81.4 | 81.4 NM_000261.1 |
| 94.4 | 86.7 | 84.5 | 89.8 NM_153604.1 |
| 99.4 | 100.7 | 87.9 | 95.7 NM_002478.3 |
| 84.9 | 92.3 | 74.2 | 82.7 NM_002479.3 |
| 97.1 | 96.7 | 81.7 | 93 NM_001033580.1 |
| 95.1 | 90.8 | 94.1 | 95 NM_001033579.1 |
| 174.6 | 148.7 | 145.5 | 156.9 NM_001033580.1 |
| 92.4 | 100 | 104.4 | 108.5 NM_003803.2 |
| 100.9 | 92.9 | 87.2 | 88.5 NM_003970.1 |
| 94 | 101.8 | 96.4 | 94.1 NM_152372.2 |
| 101.5 | 96.4 | 92.8 | 100.9 NM_006790.1 |
| 134.3 | 128.8 | 111.2 | 101.3 NM_021245.2 |
| 89.4 | 85.2 | 84.9 | 81.6 NM_016599.2 |
| 114.1 | 97.2 | 95.2 | 100 NM_133371.2 |
| 93.9 | 85 | 83 | 91.9 NM_032578.1 |
| 83.3 | 86.2 | 87.6 | 83.1 NM_015011.1 |
| 91.3 | 83.1 | 85.3 | 90.5 NM_015460.2 |
| 436.6 | 305.4 | 301.2 | 208.5 NM_032188.1 |
| 105.4 | 108.6 | 101.9 | 98.4 NM_007067.3 |
| 811.7 | 864.7 | 633.2 | 892.2 NM_006766.2 |
| 91.7 | 106.2 | 102.2 | 103.9 NM_012330.1 |
| 86.2 | 76.9 | 78 | 94.4 NM_004535.2 |
| 85.5 | 91.4 | 87.9 | 83.3 NM_015025.2 |
| 138.1 | 174.2 | 158.6 | 138 NM_153029.3 |
| 370.4 | 717.5 | 892.2 | 651.2 NM_018177.2 |
| 79.2 | 82.6 | 80.4 | 90.1 NM_015111.1 |
| 135.5 | 143 | 135.4 | 129.8 NM_182749.2 |
| 86.3 | 84 | 82.7 | 82.7 NM_005467.2 |
| 80.7 | 82.7 | 88.2 | 91.5 NM_005468.2 |
| 90.7 | 91 | 84.7 | 85.7 NM_207015.1 |
| 323.5 | 289.7 | 256.7 | 263.5 NM_005966.3 |
| 110.7 | 114.5 | 103.2 | 102.5 NM_005967.2 |
| 6822.6 | 5476 | 4102.8 | 5919.9 NM_005594.2 |
| 77.3 | 83 | 81.7 | 76.5 NM_199290.2 |

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| 200.5 | 154 | 186.7 | 220.1 NR_002182.1 |
| 240.1 | 273.9 | 228.2 | 215.3 NM_018161.4 |
| 137.6 | 138.4 | 136.5 | 121.5 NM_015909.2 |
| 12869.8 | 13434.2 | 14311.2 | 13152.6 NR_002568.1 |
| 150.9 | 187.7 | 204.9 | 123.7 NM_022742.2 |
| 144.8 | 331.2 | 475.5 | 361.7 NM_014411.2 |
| 227.5 | 267.1 | 191.5 | 219.5 NM_000262.1 |
| 304.7 | 368.7 | 377.8 | 239.8 NM_017567.2 |
| 139.7 | 126.2 | 129.5 | 120.6 NM_000263.3 |
| 308.7 | 259.2 | 223.6 | 204.7 NM_016256.2 |
| 91 | 92.8 | 81.4 | 94.5 NM_153006.2 |
| 82.7 | 94.5 | 86.3 | 93.7 NM_004536.2 |
| 108.1 | 198.5 | 213.6 | 168 NM_004536.2 |
| 100.1 | 96 | 92.5 | 87.8 NM_001033053.1 |
| 109.9 | 110 | 99.6 | 103.3 NM_176821.2 |
| 81.6 | 85.1 | 74.4 | 81 NM_145007.1 |
| 80.9 | 92.9 | 94.5 | 97.4 NM_033297.1 |
| 313.7 | 261.1 | 203.9 | 188.3 NM_033297.1 |
| 103.6 | 87.8 | 90.3 | 89.6 NM_144687.1 |
| 94.3 | 90.3 | 88.8 | 87.6 NM_176810.1 |
| 96 | 78.3 | 82.3 | 85.9 NM_176822.2 |
| 91.7 | 173.3 | 176 | 154.2 NM_017852.1 |
| 84.3 | 86.7 | 86.6 | 85.1 NM_134444.3 |
| 97.2 | 92.7 | 89 | 94.6 NM_153447.2 |
| 84.5 | 75.1 | 77.6 | 81.3 NM_138329.1 |
| 93.2 | 98.1 | 91.4 | 92.3 NM_206828.2 |
| 80.1 | 98.2 | 82.8 | 79.3 NM_206828.2 |
| 92.1 | 83.4 | 81.4 | 84.7 NM_139176.2 |
| 81.6 | 77.7 | 73.7 | 90.1 NM_176820.2 |
| 101 | 83.9 | 93.2 | 92.4 NM_024865.1 |
| 96.8 | 105.7 | 100.1 | 101.1 NM_001009553.1 |
| 87 | 90.5 | 89.7 | 83.3 NM_199461.2 |
| 97.1 | 95.1 | 76.5 | 73.5 NM_199461.2 |
| 89.8 | 81.6 | 75 | 84.6 NM_001029861.1 |
| 114.7 | 102.4 | 97.6 | 100.4 NM_152667.1 |
| 233.7 | 221.5 | 170.2 | 163.9 NM_018946.2 |
| 280.7 | 356.7 | 245.1 | 334.1 NM_139207.1 |
| 85.5 | 90.8 | 85.3 | 89.2 NM_139207.1 |
| 94.8 | 103 | 97.1 | 94.5 NM_021963.2 |
| 102.9 | 104.8 | 95.8 | 102.4 NM_004538.3 |
| 2160.2 | 1848 | 1702.7 | 1278.4 NM_005969.3 |
| 318.8 | 227.4 | 202.6 | 202.5 NM_153757.1 |
| 91.8 | 92.8 | 83.7 | 88.5 NM_207363.2 |
| 76.4 | 72.6 | 76.4 | 79.3 NM_207363.2 |
| 81.4 | 70.5 | 59.5 | 70.8 XM_929894.1 |
| 109.8 | 122.4 | 120.9 | 100.7 NM_003827.2 |
| 250.6 | 289 | 332.1 | 233.4 NM_022080.1 |
| 117.5 | 100.6 | 94.8 | 98.8 NM_198990.3 |
| 118.1 | 121.9 | 102.4 | 118.9 NM_003826.1 |
| 1974.6 | 1693.5 | 1657.2 | 938.4 NM_145201.3 |

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| 147.3 | 138.2 | 134.7 | 114.9 | NM_004851.1 |
| 967.4 | 654.5 | 679.3 | 573.9 | NR_002798.1 |
| 516.4 | 498.2 | 563.2 | 350.5 | NM_001038618.1 |
| 164.7 | 163.9 | 158 | 144.4 | NM_022493.1 |
| 265.7 | 205.2 | 169.6 | 166.3 | NM_057175.3 |
| 208 | 204.6 | 193.2 | 197.3 | NM_024561.3 |
| 122.5 | 143.8 | 135.6 | 120.1 | NM_018527.2 |
| 98.4 | 89.1 | 83.2 | 94.1 | NM_018527.2 |
| 102.9 | 107.1 | 90.2 | 94.9 | NM_001018089.1 |
| 135.2 | 131.5 | 126.4 | 131.5 | NM_024611.4 |
| 126.1 | 127.9 | 105.7 | 99.1 | NM_001018089.1 |
| 2307.2 | 2176.7 | 1871.3 | 1599.4 | NM_004539.2 |
| 212.6 | 191.6 | 171.5 | 209.2 | NM_024678.3 |
| 89.3 | 88.9 | 83 | 93.8 | NM_172164.1 |
| 428.5 | 507.7 | 481.9 | 347.2 | NM_002482.2 |
| 103.6 | 93.5 | 89.4 | 91.4 | NM_000662.4 |
| 401 | 280.6 | 241.3 | 208.7 | XM_938769.1 |
| 1339.9 | 1040.9 | 921.2 | 462 | NM_024662.1 |
| 122.6 | 115.9 | 125.1 | 116.6 | NM_024771.1 |
| 125.4 | 120.4 | 120.1 | 108.9 | NM_001011713.1 |
| 163.5 | 149 | 124.4 | 129.8 | NM_025146.1 |
| 88.6 | 86.1 | 85.6 | 89.6 | NM_000015.1 |
| 3498.8 | 2864.3 | 2815.8 | 1761.1 | NM_181528.1 |
| 85.4 | 95.8 | 82.5 | 85 | NM_181527.1 |
| 1842.4 | 1675 | 1508.2 | 1063.5 | NM_181528.2 |
| 225.8 | 242.8 | 218.7 | 246.1 | NM_012191.2 |
| 92.9 | 90.1 | 86.1 | 96.3 | NM_003960.2 |
| 394.7 | 379.1 | 421.2 | 244.3 | NM_015654.3 |
| 101.9 | 100.2 | 97.9 | 106.4 | NM_020443.2 |
| 100.3 | 91.6 | 90.4 | 98.3 | NM_182964.4 |
| 101.9 | 98.5 | 87.7 | 91 | NM_145117.3 |
| 105.7 | 277 | 191.6 | 233.3 | NM_014903.3 |
| 91 | 85.2 | 89.1 | 87.2 | NM_015678.3 |
| 84.9 | 88.1 | 82.9 | 97.9 | NM_198945.1 |
| 552.8 | 309.5 | 245.7 | 207.2 | NM_182744.1 |
| 164.4 | 144.9 | 132.7 | 134 | NM_005380.4 |
| 106.1 | 124.8 | 114.7 | 137.9 | NM_173622.2 |
| 85.3 | 85.1 | 91 | 87.4 | NM_001024688.1 |
| 124.1 | 98.3 | 107 | 108.8 | NM_001024688.1 |
| 150.9 | 160 | 152.9 | 134.6 | NM_017940.2 |
| 102.8 | 103.3 | 102.7 | 95.9 | NM_017940.2 |
| 1046.1 | 2097.2 | 1980.9 | 1705.7 | NM_001039703.1 |
| 571.3 | 775.2 | 656.5 | 617 | NM_183372.3 |
| 146.7 | 181.3 | 156.2 | 152.1 | NM_015383.1 |
| 87.2 | 83.6 | 86.5 | 85.7 | NM_173638.2 |
| 1658.8 | 3034.1 | 3431.4 | 1955.8 | NM_001037675.1 |
| 242.7 | 253.8 | 245.5 | 242.8 | NM_032264.2 |
| 106.4 | 85.5 | 87.4 | 89.5 | NM_032264.2 |
| 96.4 | 92.9 | 87.7 | 88.5 | NM_001047980.1 |
| 102.2 | 119.8 | 116.8 | 110.1 | XM_934022.1 |

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| 95.8 | 125.8 | 125.9 | 109.1 NM_005899.2 |
| 94.2 | 98.5 | 92.8 | 105.6 NM_031858.1 |
| 100.4 | 108.2 | 107.4 | 83.1 NM_005821.3 |
| 363.8 | 484.2 | 551.6 | 293.9 NM_032041.1 |
| 256.2 | 351.9 | 400.5 | 275.4 NM_001040626.1 |
| 86.8 | 83.1 | 86 | 92.7 NM_032041.1 |
| 81 | 83.1 | 79.9 | 83.5 NM_001076682.2 |
| 103 | 94 | 98.1 | 90.7 NM_000615.1 |
| 198.5 | 102.3 | 103.2 | 104.1 NM_181351.1 |
| 411.6 | 1240.3 | 907.5 | 870.9 NM_004540.2 |
| 1149.3 | 976.4 | 755.9 | 717.3 NM_017760.5 |
| 510.3 | 458.7 | 280.9 | 333.1 NM_002486.3 |
| 788.1 | 745.2 | 555.8 | 583 NM_007362.2 |
| 128 | 107.4 | 101.1 | 116.9 NM_007362.2 |
| 323 | 323.7 | 298.8 | 246.5 NM_007362.2 |
| 102 | 93.3 | 85 | 85.2 NM_001014839.1 |
| 121.2 | 123.6 | 114.5 | 108.9 NM_014284.2 |
| 131.7 | 126.9 | 110.1 | 117.2 NM_001014839.1 |
| 499.1 | 327.3 | 335.8 | 306.1 NM_000265.1 |
| 92.4 | 90.4 | 84.2 | 97.1 NR_003186.1 |
| 206.2 | 150.9 | 178.3 | 179.7 NR_003187.1 |
| 107.2 | 110.8 | 110.5 | 104.5 NM_000433.2 |
| 231.9 | 342.4 | 253.5 | 162.4 NM_013416.2 |
| 223.4 | 290.6 | 302.4 | 329.6 NM_013416.2 |
| 1338.5 | 1246.5 | 1138.2 | 947.9 NM_000631.3 |
| 817.1 | 842.2 | 625.7 | 601.5 NM_006153.3 |
| 93.3 | 92.4 | 86.4 | 87.6 NM_003581.2 |
| 92.9 | 96.3 | 87.4 | 83 NM_205842.1 |
| 90.8 | 91.5 | 83.5 | 94.7 NM_013436.3 |
| 96.9 | 92.9 | 90.7 | 86 NM_016453.2 |
| 227.3 | 233.6 | 263.1 | 156.1 NM_184231.1 |
| 3598.6 | 3618.8 | 2930.5 | 2767.9 NM_005381.2 |
| 340.9 | 472.2 | 444.8 | 311.9 NM_147223.2 |
| 98.1 | 104 | 98.6 | 109.5 NM_147223.2 |
| 101 | 86.8 | 84.8 | 98.9 NM_147233.2 |
| 115.5 | 115.9 | 99.1 | 102.9 NM_006540.2 |
| 97.6 | 91 | 94.7 | 88.5 NM_181659.1 |
| 383.5 | 431 | 452.2 | 469.6 NM_006534.2 |
| 5216.3 | 4282.5 | 4593.8 | 3244.3 NM_005437.1 |
| 710.5 | 633.6 | 486.5 | 618 NM_020967.2 |
| 580.7 | 725.9 | 737.7 | 521.2 NM_014071.2 |
| 292.5 | 168.2 | 159.7 | 118 NM_024831.5 |
| 605.6 | 641.1 | 659.6 | 615.1 NM_181782.2 |
| 171.6 | 194.1 | 162.6 | 179.2 NM_006311.2 |
| 352.6 | 404.8 | 396.3 | 351.7 NM_006312.2 |
| 1025.9 | 1267.9 | 1050 | 1130.6 NM_006312.3 |
| 96.9 | 100.4 | 98.2 | 101.3 NM_006312.3 |
| 82.3 | 80 | 73.6 | 79.5 NM_004829.3 |
| 92.8 | 87 | 92.1 | 89.3 NM_004828.2 |
| 138.8 | 113.3 | 107 | 97.4 NM_147130.1 |

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| 4024.6 | 3797.4 | 3971.7 | 2001.2 | NM_015331.2 |
| 226 | 197.2 | 218.3 | 141.7 | NM_017668.1 |
| 766.3 | 725 | 722.6 | 537.5 | NM_030808.3 |
| 118.8 | 113.9 | 117.4 | 128.1 | NM_030808.3 |
| 174.8 | 179.6 | 169.2 | 164.5 | NM_030571.2 |
| 1700 | 1584 | 1441.9 | 1370.4 | NM_019080.1 |
| 83.4 | 90.2 | 80 | 83.2 | NM_002487.2 |
| 99.8 | 103.8 | 99.3 | 107.4 | NM_138704.2 |
| 86.8 | 83.6 | 79 | 76.2 | NM_014434.1 |
| 92.2 | 85.3 | 96.3 | 90.6 | NM_000266.1 |
| 133 | 159.3 | 162.6 | 124.7 | NM_006096.2 |
| 102.9 | 81 | 83.4 | 83.2 | NM_201535.1 |
| 362.3 | 231.9 | 226.7 | 188.9 | NM_201539.1 |
| 182 | 211.5 | 194.4 | 162.2 | NM_022477.2 |
| 152.6 | 145.1 | 121.6 | 124.7 | NM_022477.2 |
| 86.8 | 94.9 | 81 | 86 | NM_020465.2 |
| 107.7 | 102.8 | 104.9 | 108.4 | NM_020465.2 |
| 91 | 97 | 100.1 | 102.8 | NM_022910.1 |
| 130.5 | 148.7 | 125.8 | 118.7 | NM_001543.3 |
| 326.4 | 245.6 | 240.3 | 147.1 | NM_003635.2 |
| 89.4 | 85.1 | 93.7 | 89.5 | NM_004784.1 |
| 95 | 95.8 | 91.2 | 97.9 | NM_022569.1 |
| 15437.3 | 13238.2 | 11578.4 | 10089 | NM_004541.2 |
| 270.8 | 200.4 | 175.5 | 174.1 | NM_004544.2 |
| 3812.2 | 2126.6 | 2319 | 1393.4 | NM_175614.2 |
| 3041 | 2580.5 | 2477.7 | 1676.8 | NM_018838.3 |
| 2831 | 1830.3 | 1735.6 | 1338.9 | NM_015965.3 |
| 6340.9 | 3102.7 | 3011.7 | 2260.1 | NM_004542.1 |
| 8809.9 | 6911.8 | 6307.2 | 6821.2 | NM_002489.2 |
| 90.3 | 83.2 | 88.9 | 99.3 | NM_005000.2 |
| 994.7 | 496.7 | 517.6 | 341.5 | NM_005001.1 |
| 3074.8 | 2489.6 | 2276.3 | 1377.4 | NM_014222.2 |
| 535.6 | 362.2 | 312.8 | 288.6 | NM_005002.3 |
| 3346.1 | 2141.1 | 2265.6 | 2117.1 | NM_005003.2 |
| 378.2 | 353.9 | 269.9 | 268.8 | NM_016013.2 |
| 135.4 | 129.7 | 113.9 | 121.1 | NM_004545.3 |
| 1259.5 | 726.8 | 853.4 | 631.6 | NM_004548.1 |
| 3880.2 | 2957.2 | 2820.9 | 1885.8 | NM_019056.2 |
| 3642.3 | 4095.4 | 4016.4 | 2761.1 | NM_004546.2 |
| 4842.7 | 3627 | 3093.6 | 3651 | NM_002491.1 |
| 78.1 | 79.1 | 76.2 | 82.5 | NM_004547.4 |
| 6772.8 | 7008.7 | 7350.2 | 4760.9 | NM_002492.2 |
| 1120.7 | 812.3 | 903.5 | 551.4 | NM_002493.3 |
| 2315.8 | 1846.1 | 1762.2 | 1216.7 | NM_004146.4 |
| 12213.6 | 6815.8 | 6331.3 | 4725.1 | NM_005004.2 |
| 1233.2 | 782.1 | 727.7 | 776.6 | NM_002494.2 |
| 103.5 | 95.5 | 102.1 | 85.9 | NM_004549.3 |
| 162.9 | 180.5 | 172.5 | 173.7 | NM_005006.5 |
| 144.8 | 101 | 118.5 | 113.8 | NM_004550.3 |
| 2416.4 | 1809 | 2439.1 | 1324.9 | NM_004551.1 |

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| 2725 | 2223.2 | 2027.7 | 1426.3 | NM_002495.1 |
| 6258.2 | 3794.2 | 3082.5 | 2842.5 | NM_004552.1 |
| 86.1 | 81.8 | 82.5 | 89.7 | NM_004553.2 |
| 2652.4 | 1491.1 | 1589.3 | 826.4 | NM_024407.3 |
| 3495.5 | 1864.6 | 1911.4 | 1089.6 | NM_002496.1 |
| 1779.6 | 1643.5 | 1718.4 | 1192.2 | NM_007103.2 |
| 3365.9 | 2227.1 | 1964.4 | 2348.2 | NM_021074.1 |
| 92 | 91.9 | 94.9 | 98 | NM_001001503.1 |
| 208.6 | 185.5 | 177.6 | 159.7 | NM_021075.3 |
| 85.5 | 93.3 | 79.4 | 97.3 | NM_004543.2 |
| 91.9 | 91.2 | 91.1 | 92.7 | NM_006393.1 |
| 81.2 | 77 | 78.8 | 77.2 | NM_213569.1 |
| 96.2 | 81.6 | 80.8 | 84.1 | NM_213569.1 |
| 280.9 | 256.3 | 252.3 | 203.3 | NM_015509.2 |
| 760.7 | 730.5 | 725.8 | 577.2 | NM_018090.3 |
| 101.4 | 88.3 | 82.2 | 91.8 | NM_152905.2 |
| 110.8 | 119.1 | 109.8 | 120.9 | NM_006154.1 |
| 103.4 | 90.2 | 82.1 | 90.2 | NM_198400.1 |
| 181.3 | 225.2 | 194.9 | 133.2 | NM_198400.1 |
| 135.5 | 166.3 | 132.1 | 133.8 | NM_015277.2 |
| 13848.1 | 8403.9 | 7709.1 | 5281.7 | NM_006156.1 |
| 83.9 | 94.5 | 86 | 81.3 | NM_182966.1 |
| 99.7 | 101 | 103.2 | 110.7 | NM_006403.2 |
| 87.1 | 87.4 | 76 | 88.5 | NM_182966.1 |
| 429.8 | 193.9 | 201.5 | 163.4 | NM_021076.2 |
| 94.7 | 94.2 | 88.3 | 88.6 | NM_006158.1 |
| 96 | 93.4 | 95.9 | 83.9 | NM_005382.1 |
| 90.2 | 95.6 | 94 | 95.2 | NM_173808.2 |
| 94.4 | 99.1 | 95.3 | 98.7 | NM_024608.1 |
| 154.2 | 112.6 | 101.3 | 91.2 | NM_145043.1 |
| 92.5 | 87.6 | 78.7 | 87.6 | NM_018248.1 |
| 191.7 | 250.4 | 209.2 | 205.7 | NM_012224.1 |
| 103.1 | 107.9 | 103.4 | 97.4 | NM_001031741.1 |
| 75.8 | 84.2 | 67.4 | 88.6 | NM_152534.2 |
| 91.8 | 94.3 | 90.3 | 91.3 | NM_024800.2 |
| 103.5 | 91.4 | 92.2 | 91.9 | NM_145910.1 |
| 479.8 | 249.5 | 261 | 191.4 | NM_002497.2 |
| 88.8 | 90.4 | 75.7 | 80.8 | NM_152720.1 |
| 169.1 | 155.4 | 154.3 | 161 | NM_002498.2 |
| 99.4 | 86.6 | 88.5 | 89.1 | NM_002498.2 |
| 111.8 | 116.3 | 107.3 | 117.1 | NM_003157.1 |
| 85.3 | 90.1 | 77.9 | 87.8 | NM_199289.1 |
| 501.1 | 319.8 | 320.6 | 241.7 | NM_014397.3 |
| 115.6 | 91.6 | 90.9 | 97.5 | NM_133494.1 |
| 143.7 | 231 | 229.4 | 196.6 | NM_178170.2 |
| 111.9 | 106.5 | 93.9 | 97.4 | NM_033116.3 |
| 502.3 | 502.7 | 472.1 | 217.9 | NM_015537.3 |
| 123.6 | 117.9 | 98.4 | 97.1 | NM_006157.2 |
| 117.9 | 108.5 | 95.1 | 108.5 | NM_006159.1 |
| 2541.8 | 2534.5 | 2857.6 | 1371.9 | NM_013349.3 |

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| 123.3 | 150.8 | 125.7 | 119.3 NM_002499.1 |
| 96.8 | 93.5 | 83.9 | 88 NM_006617.1 |
| 1025.3 | 625.1 | 483.2 | 513.7 NM_005863.2 |
| 99.4 | 90.4 | 92.4 | 84.2 NM_005863.2 |
| 222.3 | 176.2 | 170 | 151.3 NM_005863.2 |
| 93 | 93.3 | 89.2 | 89.7 NM_138966.2 |
| 93 | 96.7 | 99.3 | 100.1 NM_153181.2 |
| 92.3 | 94.9 | 85.1 | 75 NM_138999.1 |
| 75.8 | 84.7 | 73.5 | 91.3 NM_138999.1 |
| 490.3 | 356.1 | 304.4 | 268.7 NM_018092.3 |
| 611.4 | 877.4 | 719.6 | 662.1 NM_000434.2 |
| 93.6 | 90.7 | 96.7 | 100.9 NM_005383.1 |
| 98.6 | 93.8 | 89.9 | 80.6 NM_006656.4 |
| 82.8 | 87.1 | 81.2 | 79.4 NM_080741.1 |
| 91.4 | 93.4 | 92.1 | 94.1 NM_004210.3 |
| 117.1 | 107.2 | 106.2 | 102.3 NM_080749.2 |
| 101.4 | 99.6 | 78.2 | 91.6 NM_002500.1 |
| 95.1 | 91 | 84.3 | 94.3 NM_006160.2 |
| 85.3 | 79.1 | 81 | 88.6 NM_021191.1 |
| 94.6 | 92.5 | 94.5 | 95.9 NM_022728.2 |
| 90.4 | 103.2 | 85.6 | 98.1 NM_006161.2 |
| 97.5 | 95.7 | 92.6 | 93.9 NM_024019.2 |
| 109.3 | 86.3 | 91 | 81.2 NM_020999.2 |
| 131.6 | 97.6 | 108.4 | 88.6 NM_144573.1 |
| 96.1 | 139.3 | 112.7 | 130 NM_000267.1 |
| 99.3 | 129.4 | 113.9 | 113.3 NM_181831.1 |
| 81.8 | 99.9 | 89.4 | 100.6 NM_181828.1 |
| 100.2 | 108.8 | 112.9 | 97.9 NM_181825.1 |
| 100.3 | 86.4 | 93.4 | 90.3 NM_145912.4 |
| 95.5 | 89.2 | 86.1 | 99.9 NM_001005389.1 |
| 101.9 | 110.1 | 101.8 | 102.9 NM_138713.2 |
| 106 | 137.1 | 129.3 | 126.1 NM_173215.1 |
| 92.1 | 88.2 | 92.8 | 85.2 NM_173215.1 |
| 136.6 | 122.8 | 109.2 | 100.2 NM_172390.1 |
| 82.9 | 88.9 | 78.3 | 77.3 NM_172388.1 |
| 92.8 | 83.9 | 84.1 | 89.6 NM_172387.1 |
| 94.5 | 85.5 | 90.7 | 87.6 NM_172390.1 |
| 71.8 | 79.4 | 68.7 | 72.3 NM_012340.3 |
| 86.7 | 92.5 | 91.6 | 90.3 NM_173091.2 |
| 154.4 | 141.7 | 141.1 | 122.6 NM_032815.3 |
| 106.6 | 90 | 89.2 | 92.8 NM_032815.3 |
| 189.2 | 196.9 | 195.1 | 156.2 NM_173165.1 |
| 100.9 | 101.9 | 94.3 | 88.1 NM_173164.1 |
| 168.4 | 180.9 | 177.2 | 169.9 NM_004555.2 |
| 132 | 144.4 | 137.2 | 129.3 NM_173163.1 |
| 94.3 | 86.7 | 89.3 | 99.5 NM_004555.2 |
| 86.5 | 85.4 | 74.9 | 91.2 NM_004554.3 |
| 230.3 | 434.3 | 513.1 | 304.7 NM_006163.1 |
| 380.1 | 477.8 | 386.9 | 362.5 NM_003204.1 |
| 1219 | 881.1 | 808.3 | 987.8 NM_006164.2 |

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| 153.8 | 151.3 | 141 | 199.1 NM_004289.5 |
| 88.5 | 96.6 | 80.4 | 83.1 NM_005595.1 |
| 92.5 | 86.8 | 80.8 | 90.6 NM_005596.1 |
| 105.5 | 88.8 | 86.2 | 93.9 NM_005597.2 |
| 95.1 | 95.8 | 92.7 | 102.4 NM_205843.1 |
| 124.2 | 104.4 | 102.5 | 92.6 NM_005597.2 |
| 134.1 | 138 | 150.5 | 112.5 NM_005384.2 |
| 346.7 | 152.1 | 143.7 | 152.6 NM_002501.2 |
| 2270.9 | 1398 | 1351.4 | 939.7 NM_003998.2 |
| 117.6 | 108.6 | 104.9 | 115.7 NM_002502.2 |
| 105.4 | 91.5 | 92.8 | 105.6 NM_002502.2 |
| 90 | 80.9 | 81.5 | 76.5 NM_001077494.1 |
| 133.1 | 98.5 | 99.8 | 98.3 NM_002503.3 |
| 97.5 | 92.7 | 92.7 | 93.6 NM_001001716.1 |
| 181.7 | 146.4 | 137.6 | 124.2 NM_002503.3 |
| 276.4 | 219.4 | 213.7 | 172.5 NM_004556.2 |
| 95.9 | 96.4 | 100.8 | 97.7 NM_005007.2 |
| 132.3 | 125.3 | 115.6 | 114.9 NM_013432.3 |
| 110.8 | 102.5 | 102.9 | 110 NM_031419.2 |
| 350.4 | 353.1 | 400.2 | 400.6 NM_001005474.1 |
| 162.9 | 138.7 | 132.6 | 123.6 NM_006165.2 |
| 103.3 | 100.1 | 77.4 | 95.4 NM_021100.3 |
| 467.9 | 382.1 | 407.1 | 210.8 NM_181679.1 |
| 1210.8 | 936 | 874.7 | 1025 NM_001002755.1 |
| 169.3 | 157 | 149 | 125.7 NM_002504.3 |
| 300.3 | 272.6 | 240.8 | 202 NM_147133.1 |
| 144.9 | 129.1 | 150.8 | 163.2 NM_147133.1 |
| 939.6 | 557 | 537.1 | 445.4 NM_147134.1 |
| 248.2 | 283.8 | 262.8 | 259.8 NM_152995.3 |
| 241.6 | 264.7 | 188.5 | 202.5 NM_021705.2 |
| 97.4 | 107.6 | 98.9 | 88.5 NM_002505.3 |
| 107.9 | 129.3 | 114.1 | 116.1 NM_006166.3 |
| 2063.4 | 1905 | 1511.5 | 1139.6 NM_014223.2 |
| 104.4 | 94 | 92.1 | 107.7 NM_021257.3 |
| 108.8 | 141.2 | 124.1 | 116.9 NM_015514.1 |
| 975.2 | 654 | 532.5 | 517 NM_001042635.1 |
| 98.9 | 85.5 | 82.6 | 89.7 NM_019850.1 |
| 116.9 | 117.6 | 109.5 | 91.3 NM_002506.2 |
| 84.5 | 89.9 | 77.2 | 93.3 NM_002507.1 |
| 158.2 | 128.3 | 146 | 128.5 NM_014380.1 |
| 470 | 312.1 | 294.1 | 257.5 NM_014380.1 |
| 3064.4 | 1442.6 | 1340.6 | 1418.1 NM_206917.1 |
| 233.1 | 89.8 | 87.1 | 99.7 NM_001012978.1 |
| 316.5 | 453 | 322.8 | 335.8 NM_018297.2 |
| 3034.7 | 2358.3 | 1985.8 | 1398.8 NM_016645.2 |
| 398.4 | 314.3 | 253.1 | 212.9 NM_016645.2 |
| 90.9 | 89.9 | 88.1 | 89.6 NM_005598.2 |
| 84.8 | 81.8 | 83.4 | 86.9 NM_005599.2 |
| 83 | 83.5 | 81.6 | 89.8 NM_198586.2 |
| 166.7 | 140 | 153.3 | 143.1 NM_198514.2 |

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| 182.5 | 162.6 | 140.6 | 134.4 NM_144604.2 |
| 1761.4 | 1327 | 1190.2 | 578.5 NM_005008.2 |
| 992.5 | 725.4 | 651 | 459 NM_005008.2 |
| 603 | 346.4 | 347.8 | 214 NM_001003796.1 |
| 89.7 | 81.2 | 80.3 | 88.1 NM_198270.2 |
| 157.4 | 131.7 | 121.7 | 130.9 NM_031466.3 |
| 431.8 | 431.3 | 468.2 | 324.1 NM_032316.2 |
| 137.2 | 131.2 | 126.5 | 139.2 NM_002508.1 |
| 96 | 91.6 | 80 | 91.6 NM_007361.2 |
| 1679.1 | 1169.4 | 1123.5 | 818.5 NM_021824.2 |
| 5657.5 | 4963.8 | 3770 | 3746.8 NM_025075.1 |
| 2656 | 1343.9 | 1168 | 1129.4 NM_032635.2 |
| 213.1 | 181.6 | 183.6 | 162.4 NM_014301.2 |
| 204.2 | 224.1 | 200.9 | 189.5 NM_182945.1 |
| 240.1 | 269 | 257.3 | 231.5 NM_016350.3 |
| 91.7 | 96 | 87.8 | 87.9 NM_182944.1 |
| 493.3 | 759.2 | 676 | 606.2 NM_020921.2 |
| 1433.9 | 1277.2 | 1262.1 | 663.8 NM_004148.2 |
| 1045.2 | 1040.1 | 1062.7 | 642.1 NM_016533.4 |
| 91.5 | 88.5 | 78.2 | 83.6 NM_144565.2 |
| 339 | 317.2 | 269.2 | 242.8 NM_024946.1 |
| 1678.5 | 729.5 | 641.8 | 435.7 NM_016101.3 |
| 122.3 | 143.1 | 145.1 | 149.2 NM_144599.3 |
| 102 | 96.7 | 109.8 | 86.4 NM_030922.5 |
| 3086.1 | 1999.1 | 1711.2 | 1163.6 NM_030922.5 |
| 77.2 | 79.7 | 78.3 | 88 NM_015384.3 |
| 138.5 | 182.3 | 161 | 147.4 NM_015384.3 |
| 430.8 | 731.3 | 604.3 | 502.3 NM_133433.2 |
| 426.9 | 281 | 307.9 | 205.8 NM_003634.1 |
| 97.5 | 81.6 | 79.3 | 84.8 NM_015469.1 |
| 98.4 | 92.1 | 84.2 | 91.1 NM_018376.2 |
| 587.3 | 583.2 | 690.1 | 371.4 NM_007184.2 |
| 127 | 107.2 | 97.1 | 105.9 NM_005600.1 |
| 639.3 | 505.8 | 486.8 | 334.2 NM_020202.2 |
| 103.1 | 114.5 | 103.8 | 113.1 NM_024528.1 |
| 95.4 | 105.6 | 90.2 | 107 NM_033119.3 |
| 1056.3 | 738.7 | 967.2 | 651.4 NM_033120.2 |
| 1043.3 | 580.4 | 525.6 | 418.4 NM_005601.3 |
| 200.8 | 181.6 | 180.4 | 143.6 NM_020345.3 |
| 95.7 | 103.8 | 89.7 | 102.3 NM_017595.4 |
| 89.8 | 89.8 | 77.2 | 88.7 NM_001001349.1 |
| 155.9 | 199.5 | 169.6 | 166.4 NM_017595.4 |
| 87 | 91.7 | 81.8 | 83.9 NM_198478.2 |
| 366.9 | 341 | 274.1 | 249.4 NM_017544.2 |
| 185 | 216.4 | 239.1 | 219.8 NM_001012651.1 |
| 713.5 | 1552.4 | 1835 | 1283.4 NM_005385.3 |
| 105.1 | 161 | 193.4 | 146.3 NM_002509.2 |
| 83.8 | 89.6 | 89.5 | 87.5 NM_145285.1 |
| 87.8 | 84 | 85 | 88.6 NM_004387.2 |
| 89.3 | 91.9 | 93.3 | 83.3 NM_014360.2 |

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| 116.9 | 102.1 | 89.9 | 97.5 NM_006167.2 |
| 91.7 | 75.6 | 74.6 | 77.5 NM_006168.1 |
| 85.1 | 84.5 | 83.4 | 82.5 NM_177400.1 |
| 102.2 | 94.9 | 102.1 | 101.6 NM_152568.2 |
| 109.3 | 92.9 | 99.6 | 97 NM_018096.3 |
| 116.5 | 100.8 | 106.9 | 103.3 NM_001014445.1 |
| 82.7 | 82.5 | 73.3 | 83 NM_207322.1 |
| 83.7 | 76.8 | 75.7 | 83.5 NM_001007595.1 |
| 96.8 | 88.9 | 84.5 | 88.1 XM_940314.1 |
| 92.7 | 96.1 | 90.9 | 91.4 NM_014932.2 |
| 113.6 | 105.9 | 112.2 | 104.4 NM_020795.2 |
| 86.2 | 85.5 | 74.7 | 80.5 NM_018977.2 |
| 85.9 | 77.2 | 92.7 | 89.2 NM_181332.1 |
| 91.4 | 94.1 | 88.4 | 88.9 NM_020742.2 |
| 146.5 | 126.2 | 120.6 | 145.4 NM_014893.2 |
| 123.6 | 129.1 | 114.1 | 140.9 NM_016231.2 |
| 293.7 | 200.1 | 150.7 | 170.9 NM_020726.2 |
| 80.6 | 78.6 | 72.2 | 82.8 NM_033007.3 |
| 871.2 | 705.4 | 711.4 | 436 NM_004895.3 |
| 1188.1 | 2049.6 | 2955.9 | 2394.2 NM_176811.2 |
| 469.3 | 224.5 | 212.5 | 201 NM_021077.3 |
| 91.8 | 84.8 | 85.1 | 80.1 NM_002511.1 |
| 435.5 | 391.2 | 284.5 | 264.3 NM_015938.2 |
| 10060.9 | 6629.4 | 6119.8 | 4739.8 NM_198175.1 |
| 236.6 | 151.8 | 133.8 | 131.7 NM_198175.1 |
| 387 | 287.6 | 298.3 | 193.3 NM_000269.2 |
| 228.2 | 144.7 | 140.5 | 130.3 NM_001018136.1 |
| 97.2 | 89.1 | 84.3 | 81.9 NM_001018137.1 |
| 297.3 | 168.2 | 175 | 169 NM_001018138.1 |
| 93.5 | 89.9 | 93.6 | 105.6 NM_001018139.1 |
| 205.9 | 186.5 | 164.9 | 133.6 NM_002512.2 |
| 102.3 | 99.8 | 94.2 | 91.7 NR_001577.1 |
| 898.6 | 804.1 | 851 | 564.6 NM_002513.2 |
| 2703.2 | 1901.5 | 1636.8 | 1515.3 NM_005009.2 |
| 78.4 | 76.6 | 77.1 | 75.7 NM_003551.2 |
| 315.8 | 252.3 | 260.8 | 217.2 NM_005793.3 |
| 109.1 | 111.3 | 89.2 | 98 NM_197972.1 |
| 294.1 | 178 | 153 | 155.3 NM_013330.3 |
| 913.8 | 643.6 | 486.6 | 839.5 NM_004688.1 |
| 174.5 | 168.5 | 162.5 | 129.4 NM_022787.2 |
| 94.4 | 94.3 | 89.1 | 86.3 NM_015039.2 |
| 94.4 | 89.2 | 80.3 | 91.5 NM_170706.2 |
| 88.7 | 88.6 | 87.4 | 97.6 NM_015039.2 |
| 234.4 | 177.3 | 192.7 | 149.1 NM_178177.2 |
| 87.4 | 87.1 | 87.5 | 89.4 NM_001011717.1 |
| 206 | 256.8 | 262.9 | 146.5 NM_021079.3 |
| 135.5 | 123.7 | 108.2 | 114.8 NM_004808.2 |
| 91.6 | 87.3 | 80.2 | 88.2 NM_006681.1 |
| 101.1 | 106.6 | 103 | 105.4 NM_006056.2 |
| 89.7 | 78.6 | 88.1 | 86.3 NM_020167.3 |

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| 97.3 | 84.1 | 79.8 | 91.3 NM_005386.2 |
| 96.6 | 101.5 | 103.1 | 91.6 NM_005386.2 |
| 155.1 | 139 | 130.9 | 129.9 NM_006169.2 |
| 86.3 | 94.5 | 83.6 | 94 NM_012343.3 |
| 584.6 | 501.6 | 414.3 | 597.2 NM_182977.1 |
| 387.2 | 258.5 | 303.7 | 317 NM_012343.3 |
| 227.7 | 180.8 | 163.8 | 151 NM_014062.1 |
| 84.9 | 86.6 | 84.5 | 84.8 XR_000623.1 |
| 101.6 | 91.7 | 89.3 | 87.6 NM_001080413.1 |
| 122.6 | 139.1 | 105 | 113.6 NM_015658.1 |
| 811 | 499.1 | 453.5 | 398.6 NM_022451.9 |
| 188 | 111.3 | 108.7 | 99.3 NM_024078.1 |
| 212.6 | 149.9 | 142.2 | 139.6 NM_024078.1 |
| 207.7 | 199.2 | 192.6 | 159.7 NM_006092.1 |
| 149.4 | 127.7 | 120.1 | 115.7 NM_032206.2 |
| 102.4 | 100.6 | 104.2 | 96.7 NM_178844.1 |
| 813.1 | 443.4 | 493.7 | 233 NM_024618.2 |
| 185.4 | 127.9 | 128.6 | 119.1 NM_024618.2 |
| 96.2 | 89 | 85.9 | 89 NM_018055.3 |
| 94.3 | 91 | 87.2 | 91.4 NM_005450.2 |
| 1071.5 | 719.1 | 655.3 | 380.9 NM_006170.2 |
| 82.3 | 84.4 | 80.5 | 74.1 NM_001033714.1 |
| 119.3 | 104.5 | 113.9 | 100.8 NM_006170.2 |
| 118.3 | 142.8 | 133.6 | 119.9 NM_024894.1 |
| 1045.8 | 797.2 | 607.2 | 551.9 NM_015462.2 |
| 389.8 | 330.8 | 396.1 | 229.9 NM_024313.2 |
| 102.3 | 107.1 | 105.3 | 112.8 NM_003946.3 |
| 103.8 | 100.1 | 91.3 | 93.7 NM_003787.1 |
| 927.2 | 569.5 | 508.3 | 444 NM_006392.2 |
| 1535.7 | 903.9 | 741.2 | 472.1 NM_139235.3 |
| 134.4 | 127.4 | 120.9 | 127.9 NM_022917.4 |
| 2798.2 | 2166 | 2066.4 | 1266.3 NM_016167.3 |
| 387.7 | 225.3 | 203.6 | 254 NM_017948.4 |
| 129.1 | 121.7 | 119.5 | 114.1 NM_024654.3 |
| 248.4 | 221.4 | 224.8 | 164.5 NM_018983.2 |
| 3482.7 | 2067.8 | 1846.5 | 1202.6 NM_032993.2 |
| 490 | 328.4 | 297.8 | 244.3 NM_032993.1 |
| 1070.5 | 660.9 | 637 | 546.4 NM_017838.3 |
| 627.7 | 531.3 | 564.3 | 349.5 NM_001034833.1 |
| 8582.7 | 6737.7 | 5665.2 | 4095.2 NM_018648.2 |
| 503.1 | 268.7 | 205.3 | 182.5 NM_004741.1 |
| 94.8 | 92.3 | 82.4 | 95.2 NM_138400.1 |
| 284 | 271.9 | 253.1 | 216 NM_014287.3 |
| 80.2 | 92.4 | 82.4 | 84.9 NM_001004060.1 |
| 184.8 | 185.8 | 172.2 | 150.9 NM_001004067.1 |
| 5673.7 | 5602.5 | 4733.4 | 3625.8 NM_007363.3 |
| 364.4 | 297.7 | 223.9 | 249.5 NM_015934.3 |
| 92.7 | 97 | 101.7 | 99.6 NM_020962.1 |
| 88.1 | 88.9 | 84.4 | 83.4 NM_000620.1 |
| 87.8 | 82.3 | 92 | 95 NM_014697.1 |

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| 95.6 | 89 | 84.4 | 92.9 NM_153292.1 |
| 84.5 | 80.4 | 75.9 | 78 NM_000625.3 |
| 158.9 | 152.8 | 147.1 | 108.6 NM_000603.3 |
| 946.2 | 655.2 | 686.1 | 521.2 NM_015953.3 |
| 94.1 | 95.2 | 89.8 | 89.6 NM_052946.2 |
| 820.6 | 1044.9 | 1273.7 | 441.6 NM_017617.2 |
| 161.3 | 174.3 | 168.6 | 148.1 NM_024408.2 |
| 84.5 | 88.7 | 79.8 | 84.2 NM_203458.2 |
| 102.2 | 85 | 95.9 | 95.2 NM_000435.1 |
| 96.5 | 99.3 | 93.5 | 93.8 NM_004557.3 |
| 94.4 | 95.1 | 92 | 88.9 NM_178493.3 |
| 107.4 | 102.1 | 93 | 92 NM_002514.2 |
| 93 | 87 | 84.7 | 88.3 NM_006491.2 |
| 77.4 | 77 | 72.7 | 74.4 NM_006491.2 |
| 89.9 | 98 | 85.6 | 91.1 NM_002516.1 |
| 85.5 | 86.9 | 88.8 | 87.5 NM_007052.3 |
| 92.8 | 88.9 | 86.6 | 89.8 NM_013955.1 |
| 99.2 | 89.8 | 94 | 100.1 NM_013954.1 |
| 94.4 | 94.6 | 87.1 | 101.6 NM_015718.1 |
| 95.8 | 98.2 | 98.2 | 96.3 NM_016931.2 |
| 86.2 | 77.2 | 80.1 | 83.7 NM_024505.2 |
| 236.8 | 268.5 | 289.8 | 252.6 NM_006647.1 |
| 85.5 | 81.5 | 89.8 | 89.5 NM_144603.2 |
| 87.7 | 91.3 | 80.1 | 82.9 NM_172167.1 |
| 103.5 | 103.3 | 99.4 | 93.1 NM_144603.2 |
| 1893.5 | 934 | 737.1 | 545 NM_000270.1 |
| 534.7 | 440.6 | 379 | 436 NM_032569.2 |
| 85.3 | 78.3 | 72.4 | 84.4 NM_207330.1 |
| 101.6 | 90.6 | 96.1 | 100.7 NM_024759.1 |
| 249.1 | 318.7 | 314.6 | 248.5 NM_020448.2 |
| 104.8 | 115.7 | 104.2 | 95.4 NM_002517.2 |
| 103 | 108.5 | 89.5 | 98.7 NM_002518.3 |
| 90.5 | 75.6 | 78.3 | 89.8 NM_022123.1 |
| 90.2 | 80.4 | 82.3 | 88.8 NM_173159.1 |
| 76.2 | 75.6 | 73 | 79.6 NM_173159.1 |
| 98.5 | 110.4 | 110.4 | 98.6 NM_178864.2 |
| 136 | 144.5 | 121.3 | 123.1 NM_002519.1 |
| 86.8 | 85.6 | 78.1 | 83.8 NM_148896.2 |
| 79 | 86.3 | 71.5 | 82.5 NM_005285.3 |
| 109.4 | 103.5 | 99.8 | 108.9 NM_005286.2 |
| 540.7 | 556.3 | 552.8 | 536.2 NM_000271.1 |
| 87.5 | 85 | 81.5 | 90.2 NM_013389.1 |
| 7740.7 | 7090.9 | 6988.6 | 4477.7 NM_006432.3 |
| 167.1 | 143.8 | 149.9 | 158.3 NM_015392.2 |
| 295.2 | 388 | 482.1 | 272 NM_024663.3 |
| 420.8 | 532.3 | 396.2 | 626.5 NM_006310.2 |
| 90.7 | 88.5 | 84.6 | 85.8 NM_003717.1 |
| 93.6 | 86.3 | 84 | 88.1 NM_022146.1 |
| 90.7 | 91.6 | 85.3 | 80.8 NM_053036.1 |
| 100.7 | 106.3 | 90 | 98.6 NM_004885.1 |

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| 91.5 | 89.4 | 86.8 | 88.9 NM_207181.1 |
| 95.8 | 90 | 84.8 | 87.4 NM_000272.2 |
| 86.4 | 85.9 | 78.1 | 88 NM_000272.2 |
| 206.8 | 287.5 | 255.2 | 273.3 NM_153240.3 |
| 193 | 182.3 | 172.8 | 136.9 NM_015102.2 |
| 87.7 | 86.7 | 86.5 | 100.8 NM_004646.1 |
| 81 | 84.7 | 89.6 | 81.2 NM_014625.1 |
| 245 | 243.4 | 258.4 | 280.3 NM_006985.1 |
| 200 | 194.3 | 176.2 | 193.2 NM_030769.1 |
| 282.9 | 322.5 | 265.7 | 239.8 NM_017921.1 |
| 91.6 | 100.9 | 97.2 | 100.2 NM_199185.2 |
| 105.3 | 101.2 | 115.6 | 112.7 NM_182795.1 |
| 1299.5 | 536.8 | 514.5 | 333.7 NM_006993.1 |
| 76.6 | 89.6 | 85 | 74 NM_001033047.1 |
| 89.9 | 99.2 | 83.7 | 90.3 NM_006172.1 |
| 88.1 | 86 | 86.7 | 86.3 NM_002521.1 |
| 92.6 | 95.4 | 89.5 | 87.5 NM_024409.1 |
| 89.6 | 88.5 | 86.1 | 89.8 NM_000906.2 |
| 118.7 | 107.7 | 104.2 | 106.7 NM_000907.2 |
| 89.2 | 84.7 | 93.3 | 82.4 NM_000908.2 |
| 3146.3 | 2441.1 | 2094.7 | 2227.6 NM_017455.2 |
| 85.1 | 86 | 86.6 | 91.4 NM_002522.2 |
| 191.5 | 459.2 | 184.8 | 169.7 NM_002522.2 |
| 473.7 | 214.6 | 150.7 | 156 NM_002523.1 |
| 98.2 | 96.3 | 90.2 | 95.7 NM_058178.1 |
| 154.3 | 96.8 | 103.9 | 92.7 NM_000905.2 |
| 84.9 | 90.1 | 83.9 | 91.9 NM_000910.2 |
| 90.5 | 89.6 | 79.1 | 83 NM_006174.2 |
| 104.4 | 90.2 | 92.9 | 92.1 NR_002713.1 |
| 115.7 | 98.2 | 85.7 | 89.5 NM_000903.2 |
| 3373.7 | 2124.7 | 1768.4 | 1256.6 NM_000903.2 |
| 187.7 | 170.4 | 152.7 | 156.4 NM_000904.1 |
| 90.4 | 100 | 89.5 | 80.1 NM_000475.3 |
| 82.7 | 81.9 | 81.3 | 88 NM_021969.1 |
| 92.5 | 82.5 | 89.4 | 79.9 NM_021724.1 |
| 123.1 | 108.7 | 111 | 116.9 NM_005126.2 |
| 192.3 | 185.6 | 163.4 | 152.5 NM_007121.2 |
| 228.2 | 252.5 | 280.8 | 189.7 NM_005693.1 |
| 100.8 | 93.6 | 84.8 | 93.3 NM_005123.1 |
| 94.2 | 92.2 | 89 | 89.6 NM_022002.1 |
| 89.6 | 88.5 | 87 | 84.2 NM_033013.1 |
| 92.4 | 95.9 | 93.3 | 93.9 NM_005122.2 |
| 87.2 | 81.3 | 82.7 | 93.4 NM_001077475.1 |
| 118.6 | 137.8 | 133.1 | 138.4 NM_003297.1 |
| 113.3 | 108.5 | 110.3 | 107.4 NM_001032287.1 |
| 165.3 | 219.9 | 230.2 | 201.4 NM_001032287.1 |
| 178.8 | 157.2 | 154.7 | 135.5 NM_003298.2 |
| 98.4 | 92.8 | 84.3 | 87.4 NM_003269.2 |
| 89.2 | 79 | 83.2 | 86.5 NM_014249.2 |
| 85.6 | 81.2 | 79.6 | 94.9 NM_016346.2 |

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| 94 | 92.1 | 86.6 | 87.8 NM_016346.2 |
| 96.9 | 104.6 | 106.8 | 98 NM_005654.4 |
| 91 | 93.7 | 88.2 | 85.9 NM_021005.2 |
| 302.8 | 264.6 | 263.7 | 168 NM_005234.3 |
| 146.4 | 131.7 | 128.3 | 121.1 NM_001020825.1 |
| 90.3 | 94.6 | 86.5 | 83 NM_001018077.1 |
| 94.5 | 104.7 | 100.1 | 91.2 NM_001018076.1 |
| 84.9 | 83.1 | 88.7 | 81.1 NM_000901.1 |
| 86.4 | 94.4 | 88.1 | 85.3 NM_002135.3 |
| 103.4 | 92 | 80.5 | 85.7 NM_173157.1 |
| 90.5 | 79.5 | 81.5 | 83 NM_173158.1 |
| 95.2 | 87.1 | 80.6 | 86.7 NM_006186.2 |
| 95.9 | 93 | 90.7 | 94.6 NM_006981.2 |
| 80.4 | 83.3 | 81.8 | 83.9 NM_173199.1 |
| 95.2 | 77.4 | 87.4 | 81.6 NM_173198.1 |
| 102.5 | 81.8 | 85.1 | 80.4 NM_173199.1 |
| 94.8 | 81.9 | 82.4 | 88.3 NM_173200.1 |
| 83.4 | 82.8 | 85.9 | 93.7 NM_004959.3 |
| 94.4 | 95.9 | 91.1 | 83.7 NM_205860.1 |
| 87.5 | 86.9 | 88.1 | 93.5 NM_205860.1 |
| 80.3 | 89.8 | 83.6 | 87.1 NM_003822.3 |
| 110.4 | 104.7 | 92 | 97.5 NM_001489.3 |
| 84.5 | 89.9 | 85.4 | 90.7 NM_033334.2 |
| 101.3 | 96 | 89.8 | 90.5 NM_006175.3 |
| 91.5 | 78.9 | 86.4 | 93.6 NM_198060.2 |
| 814.3 | 340.3 | 308.4 | 276.6 NM_002524.2 |
| 130.5 | 118.7 | 113.1 | 122.3 NM_013392.2 |
| 344.6 | 520.3 | 550.7 | 357.6 NM_178564.2 |
| 91.3 | 107.5 | 90.6 | 90 NM_005010.3 |
| 90.3 | 101.9 | 76.1 | 82.8 NM_005010.2 |
| 2818.6 | 3110.6 | 2340.9 | 2628.6 NM_002525.1 |
| 92.9 | 96.9 | 89.2 | 93.3 NM_005011.2 |
| 96.5 | 89 | 97.4 | 87.9 NM_005011.2 |
| 93.8 | 86.1 | 99.9 | 81.9 NM_005011.2 |
| 89.7 | 87.6 | 86.3 | 86.9 NM_013959.1 |
| 85.7 | 91.5 | 78.3 | 97.7 NM_013961.1 |
| 97.4 | 94.6 | 93 | 88.2 NM_013960.1 |
| 73.3 | 90 | 81.3 | 77 NM_013962.2 |
| 98.2 | 82.1 | 90.1 | 96.9 NM_013983.1 |
| 102.6 | 95.9 | 81.1 | 98.3 NM_013985.1 |
| 90.5 | 87.6 | 93.5 | 91.2 NM_001010848.2 |
| 129.2 | 104.2 | 94.8 | 98 NM_138573.1 |
| 226.6 | 150.1 | 132 | 157.1 NM_006176.1 |
| 365.3 | 409.2 | 316.6 | 370.5 NM_003489.2 |
| 94.6 | 98.2 | 96.1 | 91.4 NM_031474.1 |
| 589.8 | 355.3 | 292.5 | 235.8 NM_020645.1 |
| 117.7 | 113.7 | 113.8 | 110.2 NM_198465.1 |
| 92.5 | 95.4 | 79.4 | 90.6 NM_006177.2 |
| 193.1 | 139 | 130.1 | 136.1 NM_007243.1 |
| 84.1 | 91.3 | 95.6 | 79.5 NM_016588.2 |

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| 100.2 | 84.1 | 86.9 | 89.8 NM_001024629.1 |
| 164.6 | 163.2 | 126.4 | 136 NM_003873.3 |
| 88.2 | 93 | 89.6 | 101.3 NM_201264.1 |
| 94.8 | 85.7 | 84.3 | 79.2 NM_201264.1 |
| 87.3 | 89.1 | 87.2 | 97.1 NM_018534.3 |
| 105 | 97 | 86.2 | 92.3 NM_004558.2 |
| 71 | 84.3 | 73.6 | 88 NM_004801.2 |
| 82.6 | 83 | 82.7 | 86.6 NM_138735.1 |
| 83.7 | 83 | 86.9 | 80.8 NM_138735.1 |
| 98.3 | 92.1 | 80.1 | 94.8 NM_138734.1 |
| 106 | 99.4 | 93.1 | 95.6 NM_015080.2 |
| 90.4 | 90.6 | 89.1 | 88.6 NM_004796.3 |
| 92.8 | 91.9 | 93.9 | 87.3 NM_004796.3 |
| 93.8 | 92.9 | 84.2 | 80.7 NM_138970.2 |
| 280.3 | 222.2 | 210.7 | 201.7 NM_024632.3 |
| 88 | 79.9 | 73.5 | 79.9 NM_030763.1 |
| 102.5 | 96.4 | 101.1 | 91.1 NM_022455.3 |
| 110.5 | 139.4 | 133.4 | 154.6 NM_022455.3 |
| 500.5 | 455.2 | 493.4 | 269.8 NM_015922.1 |
| 126.9 | 150.3 | 158.8 | 143.9 NM_006178.1 |
| 493.3 | 531.4 | 418.4 | 428.2 NM_006178.1 |
| 3878.4 | 4038.5 | 3822.7 | 2884.2 NM_006178.1 |
| 318.9 | 294.1 | 296.4 | 218 NM_016143.3 |
| 358.7 | 324.7 | 335.4 | 234.6 NM_182483.1 |
| 112 | 98.6 | 104.7 | 97.5 NM_001042549.1 |
| 93.8 | 97.5 | 91.6 | 81.1 NM_001042549.1 |
| 4038.6 | 2520.3 | 2212.4 | 1712.8 NM_003580.2 |
| 609.6 | 430.1 | 503.4 | 241.4 NM_145080.2 |
| 1545.5 | 1270.4 | 955.6 | 892.7 NM_017755.4 |
| 147.5 | 137.5 | 121 | 129.5 NM_022072.2 |
| 599.2 | 624 | 581.1 | 388.1 NM_199044.2 |
| 264.2 | 244.7 | 245.3 | 199.3 NM_148956.1 |
| 141.4 | 143.5 | 141.9 | 139.2 NM_018044.2 |
| 259.1 | 177.5 | 160.2 | 146 NM_018044.2 |
| 360.9 | 295.5 | 314.9 | 237.9 NM_145645.2 |
| 85 | 84.1 | 81.7 | 78.6 NM_148980.1 |
| 115.6 | 112.1 | 107.9 | 99.9 NM_148936.1 |
| 92.4 | 93.8 | 74.6 | 90 NM_182543.1 |
| 89.2 | 96.5 | 89.3 | 84.2 NM_024677.3 |
| 1073.8 | 844.7 | 984.5 | 502 NM_014595.1 |
| 94.2 | 87.7 | 84.9 | 91.8 NM_032526.1 |
| 100.8 | 91.8 | 89.3 | 95.9 NM_033253.2 |
| 85.3 | 82.8 | 79.1 | 78.5 NM_001002006.1 |
| 545.6 | 430.8 | 407.7 | 377.3 NM_012229.2 |
| 1277.4 | 862.4 | 769.3 | 871.6 NM_001002010.1 |
| 377 | 308 | 292.5 | 192.8 NM_052935.2 |
| 106.4 | 88.1 | 89.4 | 92.1 NM_152729.2 |
| 353.9 | 212.5 | 202.7 | 191.6 NM_022908.1 |
| 105 | 102 | 107.9 | 96.9 NM_001031701.1 |
| 485.4 | 449.8 | 485.4 | 297.8 NM_016575.1 |

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| 126.4 | 111.6 | 106.1 | 105.2 | NM_002526.1 |
| 96.5 | 93.2 | 90.4 | 92.2 | NM_020201.3 |
| 642.2 | 341.8 | 412 | 431.1 | NM_173474.2 |
| 556.4 | 405.4 | 355.9 | 299.3 | NM_006702.2 |
| 89.8 | 89.8 | 100.1 | 92 | NM_002527.3 |
| 96.6 | 93.7 | 81.7 | 92.6 | NM_006179.3 |
| 380.8 | 255.3 | 211.7 | 183.9 | NM_002528.4 |
| 91.3 | 83.3 | 87.7 | 91.3 | NM_004822.1 |
| 74 | 74.6 | 76.4 | 68.3 | NM_006181.1 |
| 83.8 | 85.7 | 81.8 | 84.4 | NM_021229.3 |
| 83.6 | 76 | 78.2 | 75.3 | NM_014917.2 |
| 95.7 | 85.3 | 84.3 | 92.1 | NM_032536.1 |
| 86.3 | 84.3 | 78.4 | 80.4 | NM_001007792.1 |
| 96 | 102.4 | 102.2 | 89.4 | NM_002529.3 |
| 91.7 | 89.8 | 89.6 | 77.9 | NM_001012331.1 |
| 93 | 83.9 | 85.9 | 78.8 | NM_001018065.1 |
| 91.1 | 95.1 | 89.6 | 92.1 | NM_006180.3 |
| 87.1 | 82.2 | 85.8 | 84.2 | NM_001007097.1 |
| 86.4 | 101.1 | 101.8 | 95.1 | NM_002530.2 |
| 91 | 90.7 | 83.5 | 77.8 | NM_001007156.1 |
| 80.8 | 86.6 | 79.9 | 81.6 | NM_006183.3 |
| 161.2 | 117.5 | 121.8 | 106.3 | NM_002531.1 |
| 91.3 | 91.8 | 74.6 | 71.6 | NM_012344.2 |
| 96.2 | 98.6 | 89.8 | 90.3 | NM_012344.2 |
| 116.1 | 104.7 | 97.9 | 105.7 | NM_014840.2 |
| 85.9 | 87.8 | 83.1 | 81.1 | NM_030952.1 |
| 92 | 92.9 | 92.4 | 85.1 | NM_016118.3 |
| 307 | 271.2 | 266.4 | 209.5 | NM_002484.1 |
| 228 | 165.1 | 154.3 | 128.7 | NM_012225.1 |
| 530.7 | 792.8 | 1004.4 | 680.9 | NM_025152.1 |
| 6822.8 | 6539.4 | 5889.8 | 4438.2 | NM_006184.3 |
| 2307.6 | 1685.8 | 1562.7 | 1715.3 | NM_005013.1 |
| 148.5 | 204.8 | 180.3 | 161.5 | NM_022731.2 |
| 3083.5 | 2818.4 | 2974.6 | 1274.6 | NM_006600.2 |
| 130.7 | 110.6 | 115 | 112.6 | NM_032869.2 |
| 158 | 145.5 | 165.8 | 126.7 | NM_145266.4 |
| 286 | 294.8 | 256.7 | 214 | NM_015332.2 |
| 156.2 | 131.1 | 147.2 | 118.9 | NM_198954.1 |
| 2177 | 1601.3 | 1773.1 | 1094.1 | NM_198948.1 |
| 71.6 | 79.7 | 68.3 | 74.1 | NM_153183.1 |
| 143.6 | 104.5 | 101.6 | 102.4 | NM_018159.2 |
| 88.8 | 90.7 | 79.3 | 83.8 | NM_031438.2 |
| 112.2 | 103 | 102.7 | 105.5 | NM_015901.4 |
| 1636.6 | 1301.8 | 1246.9 | 857.9 | NM_177533.2 |
| 148.2 | 128.2 | 120.8 | 124.3 | NM_018283.1 |
| 168.2 | 172.8 | 141.4 | 151.5 | NM_152395.1 |
| 646.1 | 304.5 | 336 | 272.9 | NM_032349.2 |
| 100 | 92.2 | 90.8 | 87 | NM_001012758.1 |
| 655.3 | 397.2 | 351 | 247.1 | NM_024815.2 |
| 377.6 | 448.4 | 361.4 | 295.6 | NM_147173.1 |

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| 873.3 | 828.5 | 846.7 | 630.6 | NM_147173.1 |
| 94.7 | 91.7 | 90.5 | 95.3 | NM_007006.2 |
| 233.8 | 193.4 | 187.4 | 167.1 | NM_032344.1 |
| 1740 | 1387 | 1184 | 810.7 | NM_006703.2 |
| 80.7 | 73.2 | 80.1 | 81.4 | NM_019094.4 |
| 88.6 | 88.3 | 79.7 | 81.7 | NR_002212.1 |
| 1156.7 | 419.5 | 414.8 | 260 | NM_014142.2 |
| 102.1 | 94.6 | 97.8 | 87.6 | NM_007083.3 |
| 182.1 | 141.3 | 142.5 | 126.5 | NM_007083.3 |
| 121.8 | 103.4 | 100.6 | 108.4 | NM_198041.1 |
| 96.8 | 96.6 | 89.3 | 81.3 | NM_181843.1 |
| 91.5 | 97.6 | 99 | 89.7 | NM_198038.1 |
| 674.2 | 462 | 479.3 | 328.3 | NM_198038.1 |
| 100.4 | 90.5 | 94 | 83.1 | NM_024047.3 |
| 91.7 | 84.8 | 84.4 | 84.8 | NR_002779.1 |
| 128.5 | 97.5 | 99.4 | 114 | NM_031423.3 |
| 104.9 | 104.2 | 101.9 | 98.3 | NM_031423.3 |
| 94.9 | 83.2 | 93.3 | 97.6 | NM_012345.1 |
| 530.9 | 411.4 | 375.9 | 398 | NM_020772.1 |
| 1050.2 | 1061.8 | 1208.5 | 624.9 | NM_014972.1 |
| 250.6 | 246.7 | 215.2 | 242.2 | NM_006185.2 |
| 1119.7 | 800.9 | 772.8 | 515.4 | NM_003744.5 |
| 79.8 | 89.5 | 77.9 | 85.7 | NM_004756.2 |
| 534.7 | 576.9 | 501.5 | 419.4 | NM_020401.2 |
| 1236.3 | 779.2 | 627 | 596.8 | NM_018230.2 |
| 361.4 | 399.8 | 324.6 | 372.2 | NM_005124.2 |
| 98.4 | 132.3 | 112.1 | 112.2 | NM_153485.1 |
| 1394.2 | 1135.8 | 898 | 683.6 | NM_004298.2 |
| 1668.2 | 1570.2 | 1202.3 | 1263.1 | NM_015231.1 |
| 369.6 | 359.7 | 286.9 | 252.6 | NM_015354.1 |
| 1671.2 | 1571.6 | 1232.8 | 1050.6 | NM_015135.1 |
| 412.1 | 337.7 | 404.1 | 286.8 | NM_024923.2 |
| 98.2 | 96.9 | 89.5 | 96.9 | NM_207308.1 |
| 1131.3 | 1052.8 | 981.8 | 895.4 | NM_005085.2 |
| 408.4 | 202.7 | 176.4 | 181.8 | NM_138285.3 |
| 145.2 | 113.8 | 116.6 | 119.2 | NM_138285.3 |
| 2727.3 | 1864 | 1655.3 | 1122.2 | NM_024057.2 |
| 137 | 138.4 | 123.1 | 124.8 | NM_198887.1 |
| 744.5 | 598.2 | 582.6 | 524.1 | NM_153645.1 |
| 93.2 | 97.5 | 87.5 | 87.1 | NM_007172.2 |
| 135.5 | 120.1 | 128.9 | 118 | NM_153645.1 |
| 1283.8 | 814 | 705.3 | 696 | NM_017426.2 |
| 217.3 | 185.5 | 162.6 | 158.9 | NM_153719.2 |
| 5061.2 | 3360.2 | 3408.4 | 1892.2 | NM_153719.2 |
| 1852.9 | 1467 | 1205.9 | 1018 | NM_024844.2 |
| 1346.6 | 887.8 | 721.8 | 739.4 | NM_002532.3 |
| 1256.4 | 960.7 | 757.6 | 533 | NM_014669.2 |
| 116.2 | 114.1 | 98.4 | 111.2 | NM_005387.4 |
| 183.8 | 144.9 | 128.6 | 121.8 | NM_139131.2 |
| 98.4 | 105.7 | 91.3 | 95.1 | NM_016320.3 |

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| 90.5 | 95.7 | 81.8 | 83.1 NM_001008565.1 |
| 118.5 | 99.5 | 105.1 | 108.1 NM_001008565.1 |
| 150.3 | 164.9 | 143.8 | 128 NM_014089.3 |
| 593.8 | 774.3 | 686.4 | 610.2 NM_007342.1 |
| 136.1 | 247.2 | 254.1 | 175.5 NM_001042483.1 |
| 116.3 | 125.5 | 96.1 | 102.8 NM_138459.3 |
| 5028.6 | 2409.6 | 2234.1 | 1458.7 NM_016359.2 |
| 840.4 | 446.3 | 303.9 | 317.9 NM_018454.5 |
| 116.8 | 89.5 | 97.1 | 104.8 NM_175741.1 |
| 155.9 | 111.3 | 108.4 | 125.1 NM_005796.1 |
| 97 | 81.1 | 89.1 | 88.4 NM_002533.2 |
| 334.8 | 404.4 | 399.8 | 240.8 NM_002533.2 |
| 1097.7 | 806.8 | 792.3 | 652.2 NM_006362.3 |
| 987.7 | 784.6 | 852.1 | 639.2 NM_006362.3 |
| 88.5 | 87.6 | 90.3 | 91.2 NM_022053.1 |
| 88.5 | 86 | 85.1 | 79 NM_022053.1 |
| 229.4 | 226.9 | 254.6 | 173.6 NM_022052.1 |
| 100.6 | 93.9 | 85.6 | 88.4 NR_002216.1 |
| 85.6 | 91.9 | 91.1 | 90.6 NM_033155.1 |
| 193.6 | 299.3 | 280.6 | 219.3 NM_022463.3 |
| 94.9 | 95.6 | 100.4 | 88.9 NM_152745.1 |
| 86.7 | 76 | 79.9 | 93 NM_007226.1 |
| 100.8 | 94.5 | 89.4 | 95.4 NM_007225.1 |
| 95.6 | 88.2 | 84.1 | 84.4 NM_007224.1 |
| 92.7 | 93.7 | 85.3 | 91.4 NM_007224.1 |
| 1581.5 | 1072 | 1003 | 656.4 NM_013248.2 |
| 320.3 | 196.1 | 227.9 | 221.4 NM_018698.3 |
| 101.8 | 99 | 94 | 89.8 NM_031956.1 |
| 78.4 | 80.4 | 80.5 | 80.5 NM_032599.1 |
| 217.1 | 252.8 | 212.1 | 212.1 NM_032597.2 |
| 162.5 | 138.1 | 142.3 | 160.2 NM_001079692.1 |
| 88.2 | 101.7 | 87.5 | 85.6 NM_033122.2 |
| 98.2 | 89.7 | 88.5 | 93 NM_173663.3 |
| 123.6 | 111.7 | 121.1 | 113.1 NM_033417.1 |
| 249.2 | 191.3 | 173.2 | 161.5 NM_001011699.1 |
| 83.9 | 80.7 | 86.7 | 79.4 NM_022567.1 |
| 100.7 | 92.8 | 93.8 | 89.7 XM_938724.1 |
| 219.4 | 207.6 | 191.6 | 148.3 NM_005768.5 |
| 1443 | 524 | 396.3 | 358.4 NM_178507.2 |
| 89.1 | 80 | 76.5 | 81.4 NM_016816.2 |
| 114.6 | 92.1 | 106.9 | 91.4 NM_001032409.1 |
| 137.8 | 114.3 | 115.7 | 107.8 NM_002534.2 |
| 101.9 | 94.8 | 87.9 | 83.4 NM_001032409.1 |
| 115.7 | 93.2 | 95 | 93.6 NM_002535.2 |
| 91.8 | 87.6 | 96.1 | 93.5 NM_001032731.1 |
| 93.6 | 86.9 | 84.6 | 75 NM_016817.2 |
| 278.8 | 215 | 198.8 | 150.3 NM_016817.2 |
| 88.6 | 90.1 | 83.6 | 88.7 NM_006187.2 |
| 97.8 | 92.4 | 84.2 | 75.9 NM_003733.2 |
| 94.4 | 87.3 | 82.1 | 87.1 NM_003733.2 |

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| 1182.6 | 906.9 | 778.8 | 667.9 | NM_000274.1 |
| 107.3 | 100.7 | 96.6 | 93.2 | NM_002536.1 |
| 97.5 | 99.5 | 91.3 | 95 | NM_001006113.1 |
| 47331 | 31835.3 | 33409.7 | 24329.9 | NM_004152.2 |
| 104.5 | 102.2 | 96.4 | 90.2 | NM_016178.1 |
| 247.1 | 278.1 | 255 | 215.3 | NM_024928.3 |
| 210.6 | 358.8 | 300 | 283.1 | NM_022837.1 |
| 383.4 | 368.4 | 316.9 | 312.8 | NM_024068.2 |
| 97.6 | 88.6 | 94 | 90.4 | NM_014582.1 |
| 92.8 | 95.4 | 85.1 | 91.7 | NM_052843.2 |
| 89.3 | 87 | 84.2 | 90.8 | NM_001080399.1 |
| 79.6 | 86.4 | 85.4 | 86.2 | NM_000275.1 |
| 1669.8 | 2249.7 | 3443.2 | 2616.6 | NM_001079842.1 |
| 2873 | 1948.5 | 1595.7 | 1934.5 | NM_017830.1 |
| 427.8 | 245.6 | 253.5 | 187.5 | NM_152398.2 |
| 1993.2 | 1380 | 1303.8 | 854.6 | NM_001014446.1 |
| 97.1 | 89.2 | 85.4 | 86.1 | NM_022375.2 |
| 94.7 | 85.6 | 82 | 93.2 | NM_002538.2 |
| 104.7 | 97 | 86.9 | 89.2 | NM_002538.2 |
| 84.7 | 80.3 | 80.4 | 93.5 | NM_006188.2 |
| 286 | 456.5 | 382.1 | 316.6 | NM_000276.3 |
| 204.9 | 230.1 | 204.6 | 195.1 | NM_001587.3 |
| 3069.1 | 1849.5 | 1158.6 | 1130.9 | NM_002539.1 |
| 87.8 | 94.6 | 81.8 | 89.5 | NM_024410.2 |
| 328.6 | 214.2 | 180 | 180 | NM_153437.1 |
| 121.6 | 107.9 | 112.6 | 104.2 | NM_153437.1 |
| 849.7 | 628.8 | 448 | 515.8 | NM_002540.3 |
| 98.1 | 96.7 | 92 | 99.3 | NM_001007022.1 |
| 90 | 81.7 | 80.9 | 88.6 | NM_020729.1 |
| 98.4 | 98.7 | 93.2 | 93 | NM_175881.2 |
| 94.2 | 88.7 | 77.5 | 96.4 | NM_153007.3 |
| 84.2 | 90 | 76 | 87.4 | NM_014253.1 |
| 101.8 | 102.2 | 94.4 | 92.8 | NM_001080428.1 |
| 121.8 | 101.7 | 115.2 | 103.3 | NM_001080477.1 |
| 82.4 | 84.3 | 73.5 | 85.3 | NM_153003.1 |
| 169.6 | 166 | 181 | 190.2 | NM_003611.1 |
| 120.2 | 111.9 | 117.1 | 100.1 | NM_001003941.1 |
| 89.2 | 90.3 | 96.8 | 88.3 | NM_001003941.1 |
| 196.7 | 270.7 | 247.2 | 214.2 | NM_002541.2 |
| 110.2 | 101 | 84.2 | 92.8 | NM_018245.1 |
| 94.7 | 84.1 | 80.1 | 86.5 | NM_001031707.1 |
| 536.8 | 309.6 | 218.4 | 251.2 | NM_001031707.1 |
| 977.1 | 563.6 | 503 | 348.8 | NM_018233.2 |
| 92.5 | 113.8 | 103.7 | 96.6 | NM_024623.1 |
| 485.7 | 431.3 | 362 | 301.7 | NM_007346.2 |
| 388.2 | 256.1 | 194.2 | 278.5 | NM_024576.3 |
| 117.7 | 122.2 | 117.2 | 116.4 | NM_002542.4 |
| 205.9 | 208.9 | 226.1 | 181 | NM_016821.1 |
| 81.3 | 88.8 | 86.5 | 85.8 | NM_014057.3 |
| 88.4 | 88.5 | 81.6 | 79.3 | NM_033014.1 |

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| 84.5 | 84.2 | 87.9 | 87.7 NM_024416.2 |
| 1069.8 | 1232.9 | 1381 | 1127 NM_003605.3 |
| 401.5 | 447.1 | 382.1 | 417.2 NM_181672.1 |
| 1840.1 | 975.4 | 954.5 | 874.7 NM_007280.1 |
| 87.3 | 82.8 | 82.5 | 89 NM_152635.1 |
| 86.4 | 96.5 | 81.4 | 89.4 NM_058199.2 |
| 86.8 | 83.2 | 76.8 | 84.5 NM_014279.2 |
| 80 | 91.6 | 93.4 | 89.6 NM_006334.2 |
| 86.5 | 86.8 | 81.9 | 80.2 NM_058164.1 |
| 91.1 | 74.3 | 81.3 | 85.9 NM_058170.1 |
| 97.9 | 83.6 | 95.2 | 90.8 NM_006418.3 |
| 89.1 | 81.7 | 75 | 88 NM_198474.2 |
| 95.3 | 82.7 | 85.6 | 89.3 NM_182487.1 |
| 93.7 | 89.6 | 99.8 | 88.7 NM_015441.1 |
| 164.3 | 225.2 | 190 | 173.1 NM_020190.2 |
| 348.2 | 299.6 | 322.7 | 238.9 NM_005806.2 |
| 86.3 | 92.5 | 90.5 | 97.8 NM_175747.2 |
| 87.4 | 88.4 | 81.3 | 90.6 NM_002543.2 |
| 88.6 | 93.1 | 99.1 | 101.2 NM_145243.3 |
| 98.5 | 107.8 | 94.2 | 95.4 NM_005014.1 |
| 86.3 | 90.8 | 88.8 | 83.1 NM_002544.3 |
| 89.8 | 85 | 80.8 | 91.3 NM_006189.1 |
| 82.3 | 89.6 | 85.3 | 95.3 NM_004498.1 |
| 106.6 | 110.1 | 122.7 | 85.5 NM_004852.1 |
| 87.5 | 95.9 | 82.8 | 88.9 NM_001080488.1 |
| 500.4 | 533.7 | 430.6 | 404.6 NM_130835.1 |
| 90.7 | 89.6 | 81 | 82.3 NM_015560.1 |
| 85.9 | 99.2 | 88 | 93.1 NM_025136.1 |
| 269 | 293.5 | 398.7 | 197.9 NM_025136.1 |
| 86.1 | 80.6 | 83.8 | 84.5 NM_001012393.1 |
| 101.5 | 96.7 | 98.6 | 106.4 NM_002545.3 |
| 87.5 | 84.7 | 84.5 | 88.7 NM_002547.1 |
| 101.8 | 112.3 | 110.5 | 96.5 NM_017570.1 |
| 521.9 | 518.4 | 561.2 | 257.2 NM_017570.1 |
| 81.1 | 83.3 | 80.9 | 92.5 NM_020061.2 |
| 92.6 | 82.5 | 80.7 | 89.9 NM_000513.1 |
| 106.2 | 98.4 | 98.6 | 100.3 NM_001708.1 |
| 378.8 | 233.1 | 232.9 | 227.1 NM_001030012.1 |
| 120.9 | 132.2 | 109 | 103.2 NM_014322.2 |
| 142.7 | 125.8 | 107.5 | 110.4 NM_001030011.1 |
| 86.4 | 91.4 | 82.9 | 81.7 NM_033282.3 |
| 88.3 | 82.7 | 85.9 | 94.7 NM_033282.3 |
| 94.7 | 93.7 | 81.6 | 82.6 NM_001030051.1 |
| 86.7 | 102 | 95.7 | 96.8 NM_181744.2 |
| 98.2 | 102.5 | 91 | 95.6 NM_000911.3 |
| 91.7 | 85 | 91.8 | 98.1 NM_000912.3 |
| 208.8 | 295.5 | 271.8 | 188.1 NM_000913.3 |
| 97.3 | 84.3 | 90.4 | 97.1 NM_000913.3 |
| 86.5 | 85.8 | 81.3 | 81 NM_182647.1 |
| 105.7 | 119.8 | 102.9 | 96.2 NM_001008505.1 |

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| 83 | 79.8 | 76 | 87.2 NM_001008503.1 |
| 109.7 | 105.6 | 98.1 | 104.7 NM_000914.2 |
| 78.2 | 81 | 81.5 | 78.3 NM_000914.2 |
| 91.7 | 76.3 | 77.3 | 81.3 NM_001008504.1 |
| 80.7 | 95.4 | 84.1 | 83.9 NM_000914.2 |
| 217.2 | 160.1 | 144.2 | 160.4 NM_147160.2 |
| 630.6 | 383.5 | 339.1 | 281.3 NM_005866.2 |
| 96 | 101.9 | 87.9 | 92.9 NM_014359.3 |
| 148.3 | 166.6 | 167.4 | 209.7 NM_001008213.1 |
| 85.2 | 93.8 | 82.9 | 93.1 NM_001004460.1 |
| 83.5 | 80.3 | 75.6 | 82.5 NM_001003745.1 |
| 77.8 | 96.3 | 82.1 | 80.4 NM_207186.1 |
| 73.3 | 74.8 | 73 | 77.1 NM_178168.1 |
| 92.8 | 82.2 | 82.9 | 95 NM_001004461.1 |
| 90.5 | 99.6 | 84.5 | 86.7 NM_001005280.1 |
| 88.8 | 91.6 | 87.2 | 88.2 NM_001004134.1 |
| 89.9 | 82.3 | 84.7 | 85.9 NM_001005491.1 |
| 89.5 | 94.6 | 89.1 | 86.2 NM_013941.2 |
| 84.1 | 82 | 83.8 | 87 NM_001005466.1 |
| 98.2 | 94.7 | 91.3 | 99 NM_001005465.1 |
| 93.6 | 96 | 82.2 | 92.3 NM_001004462.1 |
| 91.7 | 89.2 | 92.5 | 92.5 NM_001004463.1 |
| 82.6 | 84.2 | 77.4 | 87 NM_001004464.1 |
| 96.1 | 89 | 81 | 83 NM_001001953.1 |
| 82.1 | 76.5 | 77.4 | 72 NM_013940.1 |
| 83.2 | 77.4 | 83 | 76.4 NM_013939.1 |
| 101.1 | 90.4 | 80.1 | 87.8 NM_013938.1 |
| 95.4 | 81.8 | 88.1 | 86.8 NM_001004465.1 |
| 80.4 | 79.3 | 76 | 80.9 NM_001004466.1 |
| 115.2 | 101 | 95.6 | 92.4 NM_012351.1 |
| 89.5 | 78.8 | 82.5 | 89.4 NM_001004467.1 |
| 83.9 | 94.6 | 84 | 85.7 NM_001004469.1 |
| 92.2 | 83.2 | 86.8 | 92.7 NM_001004473.1 |
| 89.1 | 85.9 | 82.3 | 81.6 NM_001004476.1 |
| 84.3 | 91.2 | 88.9 | 85.9 NM_206899.1 |
| 83 | 83.9 | 92.9 | 85.7 NM_001004471.1 |
| 105.4 | 87 | 105 | 102.7 NM_001004472.1 |
| 100.6 | 98.4 | 90 | 100.5 NM_001004474.1 |
| 81.4 | 92.1 | 85.3 | 84.8 NM_001004475.1 |
| 89.1 | 81.8 | 82.9 | 83 NM_001005324.1 |
| 85.5 | 103.3 | 93.9 | 94.5 NM_207374.1 |
| 82.3 | 82 | 77.1 | 82.9 NM_001004477.1 |
| 96.8 | 79 | 82.8 | 84.5 NM_001004478.1 |
| 82.9 | 78.3 | 85.4 | 90.9 NM_013937.2 |
| 83.9 | 85.2 | 86.6 | 80.1 NM_001005503.1 |
| 80.8 | 72.3 | 87.1 | 89.9 NM_001005239.1 |
| 102.8 | 94.4 | 87 | 88.5 XM_939167.1 |
| 96.1 | 97.2 | 94.8 | 88.8 NM_001013354.1 |
| 98.3 | 95.2 | 93.3 | 99 NM_001004479.1 |
| 83 | 81.5 | 80.8 | 89.8 NM_001004480.1 |

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| 123.4 | 111.2 | 113.7 | 106 NM_001001959.1 |
| 96.2 | 93.9 | 93.8 | 73.7 NM_013936.2 |
| 80.9 | 78 | 79.1 | 83.3 NM_030959.2 |
| 98.9 | 109.7 | 87.6 | 97 NM_001004297.1 |
| 91.3 | 88.2 | 80.6 | 85.2 NM_001004481.1 |
| 93.3 | 86.7 | 80.8 | 88.1 NM_001001961.1 |
| 90.8 | 85.7 | 80.3 | 78.3 NM_001001919.1 |
| 83.6 | 86.8 | 80.8 | 93.8 NM_001004482.1 |
| 98.5 | 88.8 | 87.3 | 85.3 NM_001004483.1 |
| 99 | 97 | 94.6 | 85.1 NM_001001956.1 |
| 87.8 | 86.8 | 90.3 | 92.4 NM_001004484.1 |
| 81.4 | 80.3 | 76.2 | 73.8 NM_001004485.1 |
| 97.8 | 93 | 95.1 | 90.3 NM_001005487.1 |
| 84.1 | 74.6 | 77.1 | 88.2 NM_001004486.1 |
| 97.2 | 99.7 | 100 | 95.5 NM_001004487.1 |
| 96.9 | 90.5 | 99.1 | 96.7 NM_014565.1 |
| 89.7 | 88.4 | 85.9 | 99.4 NM_012352.1 |
| 92.2 | 87.7 | 86.6 | 88.2 NM_001004450.1 |
| 91.3 | 93.8 | 84.6 | 86.5 NM_012353.1 |
| 92.5 | 99.3 | 90.9 | 83.6 NM_002548.1 |
| 94.4 | 107.8 | 92 | 93.8 NM_003552.2 |
| 79.3 | 75.1 | 84.6 | 81.3 NM_003553.1 |
| 81.9 | 77.5 | 71.9 | 73.4 NM_003554.1 |
| 82.7 | 85.6 | 83.9 | 85.7 NM_012360.1 |
| 83.7 | 85.4 | 87.8 | 92.6 NR_002169.1 |
| 88.9 | 82.9 | 83.6 | 92.7 NM_003555.1 |
| 81.3 | 86.3 | 91.5 | 81.6 NM_001004713.1 |
| 101.4 | 106.2 | 89.2 | 101.1 NM_001004451.1 |
| 95.3 | 91.9 | 90.3 | 93.3 NM_054107.1 |
| 95.5 | 94.1 | 86.8 | 94.5 NM_001004452.1 |
| 81.8 | 84.8 | 90.2 | 82.9 NM_080859.1 |
| 98.3 | 98.5 | 88.4 | 93.4 NM_001005236.1 |
| 83.6 | 86.4 | 86.6 | 83 NM_001005234.1 |
| 93.1 | 92.8 | 87.2 | 82.8 NM_001005235.1 |
| 92.1 | 84.2 | 80.3 | 74.6 NM_001004453.1 |
| 96.5 | 92.2 | 93.5 | 87.8 NM_001004454.1 |
| 75.4 | 85.1 | 80.4 | 86.6 NM_001004456.1 |
| 89.6 | 87.9 | 94.9 | 80.6 NM_012363.1 |
| 94.7 | 89 | 88.8 | 91.3 NM_001004457.1 |
| 79.9 | 77.9 | 72.1 | 75 NM_012364.1 |
| 85.8 | 81.7 | 80.4 | 85.2 NM_001004458.1 |
| 87.6 | 87.7 | 84.5 | 96.2 NM_001004459.1 |
| 112.7 | 120.5 | 118.3 | 93 NM_001005287.1 |
| 92.7 | 91.8 | 79 | 82.4 NM_001004135.1 |
| 92.3 | 88 | 92 | 90.7 NM_001001659.1 |
| 85.3 | 95.2 | 91.1 | 89.3 NM_001005480.1 |
| 93.2 | 89.6 | 82.5 | 84.7 NR_002158.1 |
| 89.2 | 80.9 | 80 | 91.3 NM_001004488.1 |
| 98.3 | 80.3 | 78.8 | 80.8 NM_001001802.1 |
| 93.4 | 97.9 | 94.4 | 84.5 NM_012365.1 |

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| 85.6 | 82.5 | 83.1 | 90.8 NM_001005328.1 |
| 238 | 203 | 193.6 | 180.7 NR_002157.1 |
| 88.8 | 85.5 | 81.4 | 91.3 NM_001005276.1 |
| 99.5 | 107.4 | 106.2 | 102.9 NM_001004489.1 |
| 86.3 | 96.8 | 92.1 | 98.6 NM_001004490.1 |
| 84.5 | 89.2 | 74.3 | 83 NM_001004491.1 |
| 86.1 | 83 | 79.6 | 73.5 NM_001005285.1 |
| 90.5 | 89.6 | 90.8 | 99.8 NM_001004492.1 |
| 97.9 | 95.4 | 86.2 | 89.5 NM_033057.1 |
| 87.7 | 78.3 | 78.7 | 94.5 NM_001005226.1 |
| 98.1 | 94.8 | 85.8 | 97.9 NM_012367.1 |
| 99.2 | 90.4 | 83.9 | 85.9 NM_012368.1 |
| 93 | 89.1 | 86.9 | 88.7 NM_198074.3 |
| 83.2 | 81.4 | 76.7 | 89 NM_003700.1 |
| 100.9 | 95.5 | 80.9 | 91.4 NM_001004684.1 |
| 85.6 | 80.9 | 80.3 | 78.7 NM_012369.1 |
| 91.5 | 78.7 | 89 | 81.5 NM_001004685.1 |
| 86.3 | 87.2 | 84.6 | 88.9 NM_001001915.1 |
| 102.6 | 107.8 | 90 | 89.4 NM_001001914.1 |
| 86.3 | 76.5 | 80.4 | 73 NM_001013355.1 |
| 90.7 | 90.2 | 83.4 | 82.7 NM_030883.3 |
| 106.7 | 95.4 | 95.2 | 92.7 NM_007160.2 |
| 92 | 83 | 85.9 | 88 NM_030905.1 |
| 89.8 | 79.8 | 80.2 | 92.9 NM_001005216.1 |
| 81.2 | 74.1 | 76.9 | 78 NM_205859.1 |
| 90.4 | 88.1 | 81.7 | 78.3 NM_175911.2 |
| 84.8 | 104.2 | 84.4 | 84.3 NR_002145.1 |
| 81.5 | 81.7 | 84.3 | 80.4 NM_001004686.1 |
| 90.6 | 90.5 | 95.8 | 88.4 NM_001004687.1 |
| 78.6 | 76.3 | 78.3 | 82.8 NM_001001963.1 |
| 76.9 | 78.6 | 80.4 | 74.7 NR_002141.1 |
| 89.3 | 88.7 | 86 | 85.6 NM_001004688.1 |
| 86.9 | 84.8 | 87.3 | 85.3 NM_001004689.1 |
| 96.8 | 91 | 89.3 | 82.9 NM_017504.1 |
| 94.7 | 87 | 87.5 | 97.1 NM_001004690.1 |
| 83.1 | 87.4 | 74.3 | 91.1 NM_001004691.1 |
| 84.1 | 85.3 | 86.2 | 82.5 NM_019897.1 |
| 89.4 | 82.8 | 74.4 | 80.6 NM_030904.1 |
| 96.9 | 84.8 | 76.5 | 83.8 NM_001004693.1 |
| 91.8 | 93.1 | 78 | 90.3 NM_001001964.1 |
| 78 | 86.5 | 91.6 | 73 NM_001004692.1 |
| 79.9 | 72.8 | 78.1 | 84.8 NM_001001824.1 |
| 76 | 78.9 | 76.3 | 85.8 NM_001005495.1 |
| 99.8 | 98.6 | 89.9 | 94.6 NM_001004695.1 |
| 80.6 | 78.6 | 79.8 | 80.5 NM_001001827.1 |
| 82.6 | 80 | 74.9 | 76.9 NM_001004696.1 |
| 80.2 | 86.1 | 80.1 | 82.8 NM_001004697.1 |
| 91.6 | 104.6 | 86.4 | 88 NM_001005471.1 |
| 90.8 | 85.1 | 76.3 | 80 NM_001005522.1 |
| 91.5 | 92.6 | 86.5 | 94.7 NM_206880.1 |

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| 80.9 | 68.5 | 70.4 | 76.1 NM_030903.2 |
| 99.5 | 93.6 | 89.4 | 95.2 NM_001001957.2 |
| 105.8 | 104.9 | 98.4 | 104.7 NM_001004698.1 |
| 92.6 | 87.1 | 86 | 87.5 NM_001001657.1 |
| 93.9 | 92.7 | 90.5 | 85.5 NM_001004699.1 |
| 92.8 | 88.8 | 81.9 | 80.5 NM_002550.1 |
| 93.1 | 94.7 | 91.7 | 96.1 NM_002551.2 |
| 98.4 | 90.2 | 79.4 | 81.3 NM_012373.1 |
| 149.1 | 158.9 | 158 | 124.8 NM_001005334.1 |
| 93.6 | 91.7 | 80.6 | 87.3 NM_001005275.1 |
| 91.9 | 87.5 | 80.7 | 84.3 NM_001005274.1 |
| 87 | 87.1 | 76.6 | 85 NM_001005512.1 |
| 93.5 | 82.8 | 86.6 | 93.8 NM_001005272.1 |
| 97.1 | 96.8 | 94 | 84.4 NM_001005470.1 |
| 101.3 | 97.3 | 87.1 | 86.5 NM_001004700.1 |
| 90.1 | 85.2 | 79.8 | 85.6 NM_001005270.1 |
| 80.9 | 84.5 | 80.3 | 83.7 NM_001001955.1 |
| 98 | 89.9 | 85.8 | 91.3 NM_001001920.1 |
| 89.2 | 76.8 | 78.7 | 84.3 NM_001004701.1 |
| 96.1 | 82.5 | 83.9 | 87.3 NM_001004702.1 |
| 102.2 | 90.8 | 98.6 | 84 NM_001005513.1 |
| 91.6 | 84.8 | 88.1 | 85.1 NM_001004703.1 |
| 91.4 | 82.5 | 83.5 | 86.7 NM_001004704.1 |
| 108.1 | 87.1 | 93.4 | 87.7 NM_012374.1 |
| 98.9 | 93.4 | 95.1 | 84.8 NM_001004705.1 |
| 103.9 | 100.6 | 90 | 103.6 NM_001004706.1 |
| 82.6 | 92.8 | 73.6 | 89.8 NM_001004707.3 |
| 86.6 | 84.7 | 79.4 | 94.9 NM_001001965.1 |
| 94.3 | 96.6 | 92.5 | 100.4 NM_001004708.1 |
| 85.5 | 92.3 | 77.3 | 89.8 NM_001004711.1 |
| 91.7 | 88.3 | 85.6 | 85.4 NM_001001912.1 |
| 82.6 | 94.1 | 89.2 | 87.7 NM_001001674.1 |
| 94.4 | 87.6 | 99.8 | 94.5 NM_001005504.1 |
| 86.7 | 88.6 | 85.6 | 89.7 NM_001005224.1 |
| 106.4 | 96.2 | 93.5 | 100.1 NM_001004195.2 |
| 105.4 | 109.2 | 97.1 | 97.3 NM_001005484.1 |
| 96.1 | 87.5 | 87.3 | 91.2 NM_001005326.1 |
| 86.4 | 92.5 | 82.6 | 83.4 NM_001004063.1 |
| 88.2 | 85.1 | 86.3 | 94.2 NM_001004714.1 |
| 99.2 | 89.4 | 94.5 | 91.5 NM_001004712.1 |
| 88.9 | 86.5 | 73.7 | 90.6 NM_001005486.1 |
| 90 | 85.4 | 78.4 | 82.1 NM_001004715.1 |
| 96.6 | 98.9 | 90.4 | 98.5 NM_001005501.1 |
| 85.8 | 78.9 | 74 | 87.4 NM_001005483.1 |
| 88.1 | 86.4 | 84.1 | 84.8 NM_001004717.1 |
| 82.2 | 82.3 | 73.7 | 84.9 NM_001005500.1 |
| 84.7 | 85 | 79.7 | 81.7 NM_001004719.1 |
| 89.7 | 79.6 | 93.2 | 82.8 NM_001004723.1 |
| 88.3 | 86.4 | 85.2 | 91.6 NM_001005241.1 |
| 92.6 | 85.7 | 89.7 | 90 NM_001004724.1 |

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| 95.7 | 86.1 | 84.3 | 85.9 NM_001004124.1 |
| 84.2 | 84.2 | 82.2 | 87.5 NM_172194.1 |
| 93.6 | 86.1 | 84.9 | 86.5 NM_001004725.1 |
| 103.8 | 84.9 | 79.4 | 82.8 NM_001004059.1 |
| 86.5 | 79.5 | 86.8 | 78.7 NM_001004726.1 |
| 84 | 82.2 | 82.5 | 80.4 NM_001004727.1 |
| 81.4 | 88.5 | 85.8 | 89 NM_001004748.1 |
| 74.2 | 88.4 | 81.7 | 87.3 NM_001005329.1 |
| 95.6 | 96.5 | 92.3 | 98.2 NM_001004749.1 |
| 85.4 | 81.3 | 83.5 | 87.4 NM_033180.1 |
| 88.5 | 81.4 | 84.6 | 85.2 NM_033179.1 |
| 92.4 | 88.8 | 87.5 | 77 NM_001005567.1 |
| 94.2 | 75.5 | 77.6 | 81.3 NM_001004750.1 |
| 100.1 | 102.4 | 96.6 | 92.7 NM_001004751.1 |
| 83.9 | 85.6 | 94.4 | 88 NM_152430.2 |
| 101.6 | 98.4 | 101.2 | 102.7 NM_030774.2 |
| 90.7 | 88 | 83.3 | 93.1 NM_001004752.1 |
| 88.7 | 81.2 | 85.6 | 86.3 NM_001004753.1 |
| 84.8 | 79.8 | 76.4 | 85.6 NM_001005237.1 |
| 84.7 | 79.7 | 84.6 | 87.7 NM_001005238.1 |
| 93.2 | 96.4 | 92.3 | 102.3 NM_001005288.1 |
| 93.7 | 86.3 | 85.5 | 87.4 NM_001004754.1 |
| 83.9 | 82.9 | 80.8 | 85.8 NM_001004755.1 |
| 98.1 | 100.2 | 89.1 | 94.8 NM_001004756.1 |
| 94.2 | 104.7 | 91.2 | 94.8 NM_001004757.1 |
| 89.6 | 78.8 | 85 | 80.2 NM_001004758.1 |
| 118 | 107.4 | 114.8 | 107.5 NM_001004759.1 |
| 84.5 | 80.7 | 85.6 | 76.7 NM_001004760.1 |
| 80.9 | 73 | 69.1 | 80.6 NM_012375.1 |
| 90.8 | 81.3 | 81.1 | 99.6 NM_001005222.1 |
| 106.9 | 102.3 | 98.5 | 110.1 NM_001005160.1 |
| 80.6 | 84.2 | 83.4 | 93.7 NM_001004052.1 |
| 79.3 | 78.7 | 76.3 | 76 NM_001005161.1 |
| 101.1 | 95 | 99.2 | 106.6 NM_001005162.1 |
| 97.3 | 102 | 89.9 | 91.1 NM_001005163.1 |
| 85.2 | 85.4 | 81.1 | 81.9 NM_001005164.1 |
| 100.4 | 103.2 | 103 | 105.2 NM_001005165.1 |
| 108.4 | 97.9 | 92.5 | 96.7 NM_001005167.1 |
| 77.2 | 83.7 | 72.9 | 83.3 NM_001005168.1 |
| 93.7 | 104.2 | 96.2 | 108.4 NM_001005289.1 |
| 94.9 | 93.4 | 94.5 | 96.9 NM_001005169.1 |
| 80.2 | 83.1 | 82.7 | 78.9 NM_001005170.1 |
| 95.8 | 84.7 | 85 | 90.7 NM_001001916.1 |
| 113.9 | 109.3 | 106.6 | 100.2 NM_001005171.1 |
| 88 | 89.5 | 81.6 | 83 NM_001005172.1 |
| 95.9 | 90.6 | 96.7 | 98 NM_001005173.1 |
| 91.9 | 86.9 | 86.4 | 90.6 NM_001004137.1 |
| 96.6 | 97.8 | 92.1 | 91.7 NM_001001913.1 |
| 108 | 97.2 | 98.4 | 98.6 NM_001005174.1 |
| 91.9 | 94.6 | 85.1 | 98.4 NM_001005175.1 |

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| 96.7 | 90 | 99.6 | 89.2 NM_001001922.1 |
| 91.8 | 92.1 | 91.9 | 87.1 NM_001005177.1 |
| 91.3 | 88.2 | 82.4 | 83.3 NM_001005178.1 |
| 105.9 | 104.2 | 99.9 | 109.3 NM_001001917.1 |
| 91.5 | 81.8 | 82.7 | 83.3 NM_001003443.1 |
| 94 | 96.4 | 86 | 89.9 NM_001005179.1 |
| 105.5 | 75.6 | 88.3 | 81.7 NM_001005180.1 |
| 103.8 | 101.2 | 99.8 | 97.5 NM_001005181.1 |
| 85.4 | 79.4 | 75 | 83.3 NM_001004728.1 |
| 80.4 | 74.8 | 70 | 85.1 NM_001001954.1 |
| 102.5 | 85.8 | 88.5 | 87.2 NM_054106.1 |
| 79.6 | 77.7 | 76.9 | 87.7 NM_001005323.1 |
| 87 | 95 | 91.4 | 92.7 NM_001004729.1 |
| 80.4 | 86.1 | 87.2 | 87.5 NM_001002925.1 |
| 90.2 | 92.3 | 78.1 | 81.3 NM_001004730.1 |
| 85.7 | 94.3 | 83.8 | 87.5 NM_001001921.1 |
| 85.9 | 85.5 | 86.5 | 81.1 NM_001001966.1 |
| 89 | 89.4 | 88.5 | 95.4 NM_001004731.1 |
| 90 | 89.6 | 94.6 | 83.1 NM_001004732.1 |
| 95.4 | 96.3 | 83.1 | 87.2 NM_001004733.1 |
| 87.2 | 92 | 76.8 | 83.6 NM_001005489.1 |
| 84.8 | 83.8 | 90.2 | 87.8 NM_001005566.1 |
| 92.3 | 87.2 | 81.1 | 99.2 NM_001005218.1 |
| 87.2 | 76.4 | 76 | 91.9 NM_001005469.1 |
| 94.9 | 80.3 | 91.2 | 92.3 NM_001001918.1 |
| 82.2 | 84.6 | 78.4 | 87.1 NM_001004734.1 |
| 93.1 | 95.5 | 85.1 | 78.9 NM_001001923.1 |
| 81.6 | 95.2 | 89.3 | 88.3 NM_001001967.1 |
| 85.3 | 102.9 | 88.8 | 89.6 NM_001004735.1 |
| 97.6 | 84.9 | 87.2 | 101.1 NM_001005496.1 |
| 78.4 | 78.4 | 78.4 | 77.1 NM_001001952.1 |
| 93.8 | 88.6 | 84.1 | 101 NM_003697.1 |
| 87.6 | 85.8 | 102.8 | 85.4 NM_001005338.1 |
| 79.1 | 73.8 | 74 | 81.1 NM_001005514.1 |
| 88.8 | 78.3 | 75 | 85 NM_001005515.1 |
| 86.8 | 82.6 | 71.2 | 90.7 NM_001005482.1 |
| 94.5 | 92.1 | 88.3 | 86.1 NM_001005479.1 |
| 88 | 90.7 | 90.7 | 86.5 NM_006637.1 |
| 88.8 | 86.2 | 82.9 | 73.1 NM_001005492.1 |
| 86.6 | 90.5 | 85.6 | 91 NM_001004736.1 |
| 91.7 | 99.9 | 95.3 | 91.1 NM_001004737.1 |
| 82.7 | 86.7 | 77.7 | 90.1 NM_001005516.1 |
| 85.4 | 87.5 | 76.9 | 82.3 NM_001005517.1 |
| 87.6 | 88.1 | 85.7 | 82.4 NM_001004738.1 |
| 92.4 | 87.7 | 82 | 92.4 NM_001004739.1 |
| 85.4 | 84.3 | 86.1 | 81.6 NM_001004741.1 |
| 83.9 | 87.1 | 74.7 | 84.3 NM_001005245.1 |
| 88.6 | 85 | 82.7 | 86.2 NM_001004742.1 |
| 90.8 | 87.7 | 85.6 | 84 NM_001005282.1 |
| 91.1 | 88.4 | 85 | 96.5 NM_001004743.1 |

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| 86 | 79.2 | 82.3 | 81.2 NM_153444.1 |
| 101.9 | 93.5 | 94.2 | 89.4 NM_153445.1 |
| 87.4 | 85.2 | 90.1 | 80.2 NM_001004744.1 |
| 75.1 | 84.1 | 80.1 | 75.7 NM_001004745.1 |
| 94.1 | 87.5 | 84.3 | 93.9 NM_001004746.1 |
| 100.8 | 95.7 | 82.3 | 89 NM_001004747.1 |
| 91.4 | 93.5 | 86.6 | 82.3 NM_030946.1 |
| 98.3 | 93.5 | 91.5 | 89.9 NM_030876.4 |
| 88 | 81.7 | 73.5 | 88.6 NM_001001960.1 |
| 86.5 | 84.2 | 98.2 | 92.2 NM_003696.2 |
| 85.3 | 85.9 | 88 | 79.1 NM_001005281.1 |
| 95 | 90.1 | 90.2 | 86.6 NM_001005853.1 |
| 89.2 | 91.3 | 80.3 | 90.7 NM_173351.1 |
| 86 | 78.2 | 73.7 | 78.4 NM_001005182.1 |
| 76.7 | 85.4 | 79.1 | 71 NM_054105.1 |
| 95.2 | 87.5 | 82.5 | 93.3 NM_054104.1 |
| 93.3 | 83.3 | 85.9 | 92 NM_001005494.1 |
| 80.5 | 80.8 | 76.3 | 82.6 NM_001005493.1 |
| 94.7 | 89.7 | 85.1 | 92.6 NM_001005518.1 |
| 78 | 84.7 | 75.1 | 85.1 NM_001005519.1 |
| 97.5 | 83.6 | 82.7 | 83.9 NM_001005499.1 |
| 90.9 | 86.4 | 87.7 | 82.6 NM_001005490.1 |
| 84.6 | 84.6 | 90.4 | 85 NM_001005497.1 |
| 85 | 82.3 | 76.9 | 78.6 NM_001005183.1 |
| 91.8 | 92.5 | 93.4 | 89.8 NM_001005286.1 |
| 86.4 | 84.6 | 85.3 | 87.1 NM_001005279.1 |
| 98.2 | 82.7 | 79.6 | 92.9 NM_001005327.1 |
| 90.5 | 84 | 82.7 | 90.6 NM_001005184.1 |
| 77.9 | 77.1 | 80.8 | 79.1 NM_001005325.1 |
| 86.2 | 92.3 | 88.6 | 85.8 NM_001005185.1 |
| 90.4 | 81.2 | 86.3 | 95.8 NM_001005278.1 |
| 78.7 | 80.8 | 83.9 | 85.1 NM_001005186.1 |
| 85 | 86.4 | 82.3 | 82.3 NM_001001968.1 |
| 83.1 | 81.1 | 88.4 | 85.7 NM_001005187.1 |
| 102.3 | 95.8 | 100.6 | 85.6 NM_001001667.1 |
| 88.2 | 91.4 | 92 | 96.2 NR_002140.1 |
| 89.1 | 88.4 | 89.9 | 83.5 NM_001005188.1 |
| 98.4 | 91.9 | 91.7 | 91.5 NM_001005189.1 |
| 87.9 | 90.9 | 85.7 | 87.4 NM_001005190.1 |
| 87.3 | 100.4 | 86.7 | 89.5 NM_030901.1 |
| 81.7 | 81.2 | 72 | 86.1 NM_017506.1 |
| 91.8 | 82 | 90.1 | 89.2 NM_198944.1 |
| 93.5 | 92.7 | 89.2 | 87.9 NM_012377.1 |
| 80.7 | 81.9 | 75.3 | 85 NM_175883.1 |
| 84.6 | 82 | 82.3 | 87 NM_001005191.1 |
| 118.2 | 121.6 | 131.7 | 130.1 NR_002171.1 |
| 101.1 | 86.2 | 88.9 | 97.6 NM_001079935.1 |
| 90.5 | 81.5 | 83.5 | 88.7 NR_002163.2 |
| 90.8 | 88.6 | 79.8 | 85.5 NR_002185.1 |
| 83 | 88.9 | 81.7 | 83.3 NM_001005192.1 |

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| 75 | 79.5 | 80.5 | 76.4 NM_001005193.1 |
| 91.5 | 81.8 | 85.7 | 90.4 NM_001001958.1 |
| 90.1 | 83.1 | 89.1 | 90.1 NM_001005194.1 |
| 100.7 | 100.5 | 96.9 | 95 NM_001005195.1 |
| 88.7 | 94.4 | 91.1 | 97.1 NM_001005468.1 |
| 79.7 | 88.2 | 84.4 | 78.9 NM_001005467.1 |
| 86.7 | 87.5 | 82.1 | 84.6 NM_001005196.1 |
| 80.2 | 74.7 | 73.1 | 81.5 NM_012378.1 |
| 98.1 | 86.5 | 92 | 92.3 NM_001002917.1 |
| 103.4 | 94.8 | 91.8 | 105 NM_001002918.1 |
| 90.2 | 83.9 | 76.2 | 79.4 NM_001005197.1 |
| 85.8 | 90.9 | 82.9 | 98 NM_001002905.1 |
| 104.4 | 88.5 | 87.1 | 86.4 NM_001007249.1 |
| 95.3 | 80.9 | 88.4 | 86.2 NM_001005198.1 |
| 95.4 | 92.5 | 88.4 | 82.1 NM_001005199.1 |
| 89.7 | 87.8 | 81.6 | 83.9 NM_001005200.1 |
| 101.4 | 103.9 | 99.2 | 98.1 NM_001005201.1 |
| 80.8 | 76.4 | 85.9 | 84.8 NM_001003750.1 |
| 78.5 | 86.3 | 87.5 | 86.3 NM_001005205.1 |
| 93.7 | 91.9 | 84 | 83 NM_001004064.1 |
| 95.4 | 93.1 | 84.4 | 86.7 NM_001002907.1 |
| 79.4 | 83.5 | 82.1 | 78.2 NM_001005202.1 |
| 89.4 | 95.9 | 96.8 | 90.2 NM_001004058.1 |
| 77.9 | 81 | 71.1 | 82 NM_001005203.1 |
| 85.3 | 89.5 | 83.5 | 82.4 NM_001005204.1 |
| 83.2 | 79.3 | 79.1 | 85.9 NM_001013356.1 |
| 80.3 | 82.3 | 79.5 | 87.6 NM_001013357.1 |
| 104 | 92.5 | 95.5 | 98.1 NM_001001658.1 |
| 82.3 | 75.6 | 78.1 | 71.1 NM_001001656.1 |
| 90.3 | 82.1 | 76.7 | 90.4 NM_001005213.1 |
| 86.4 | 90 | 76 | 89 NM_001005284.1 |
| 96 | 97.5 | 90.4 | 92.2 NM_001013358.1 |
| 112.3 | 107 | 107.2 | 109 NM_001005211.1 |
| 86.1 | 83.1 | 84.3 | 91.2 NM_001005243.1 |
| 78.9 | 81.7 | 79.3 | 83.3 NM_001005212.1 |
| 90.8 | 92.7 | 85 | 87.2 NM_001005283.1 |
| 305.5 | 271.2 | 303.3 | 176.9 NM_153451.2 |
| 451.8 | 257.6 | 269.1 | 208.5 NM_004153.2 |
| 440.8 | 415.9 | 357.2 | 416.8 NM_006190.3 |
| 548.3 | 647.8 | 437.1 | 573.9 NM_181837.1 |
| 118.8 | 100.1 | 102.3 | 100.6 NM_181742.1 |
| 986.7 | 867.5 | 656.2 | 461.3 NM_002553.2 |
| 109.3 | 100.6 | 84.1 | 98 NM_002553.2 |
| 99.2 | 89.2 | 81.2 | 95.2 NM_181747.1 |
| 11457.5 | 18421.4 | 18150.2 | 14276.9 NM_014321.2 |
| 194.9 | 162.7 | 150.3 | 143.5 NM_032412.2 |
| 431.4 | 421.3 | 366.9 | 327.6 NM_000607.1 |
| 96.7 | 105.4 | 103 | 99.1 NM_000608.2 |
| 137.5 | 131.3 | 109.5 | 131.1 NM_016467.3 |
| 104.4 | 92.1 | 93.2 | 87.6 NM_014182.3 |

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| 108.9 | 110.1 | 97.9 | 109 NM_139280.1 |
| 149.6 | 172.2 | 148 | 136.1 NM_006812.2 |
| 102.6 | 101.7 | 86.7 | 110.4 NM_032623.3 |
| 1252.9 | 1309.5 | 1281.1 | 771.3 NM_002556.2 |
| 87.6 | 97 | 90.5 | 86.2 NM_030758.3 |
| 88.1 | 82.3 | 96 | 86.6 NM_017784.3 |
| 106.8 | 119.8 | 126 | 124.7 NM_022776.3 |
| 142.6 | 157.7 | 163.4 | 158.4 NM_018030.3 |
| 107.4 | 96.5 | 98.9 | 96 NM_018030.3 |
| 403 | 661.3 | 665 | 505.3 NM_080597.2 |
| 95.6 | 93.7 | 89.9 | 101.2 NM_144498.1 |
| 163.9 | 166.1 | 158.9 | 154.5 NM_144498.1 |
| 97.9 | 100.5 | 95.3 | 95.9 NM_145320.1 |
| 128.7 | 155 | 118.3 | 134.1 NM_145322.1 |
| 563.6 | 514.2 | 582.8 | 381 NM_020896.2 |
| 440.2 | 476.6 | 566.3 | 287.8 NM_145638.1 |
| 136.9 | 127.7 | 139 | 114.2 NM_032523.2 |
| 106.8 | 97.8 | 77.1 | 83.5 NM_145739.1 |
| 292.2 | 293.3 | 298.3 | 235.4 NM_145798.2 |
| 106.9 | 98.9 | 99.5 | 105.8 NM_145798.2 |
| 194.6 | 220 | 153.9 | 180.1 NM_020841.4 |
| 195.2 | 269.5 | 219.3 | 206.5 NM_020841.4 |
| 86.5 | 87.9 | 81.3 | 83.7 NM_148909.1 |
| 1333.5 | 1615.4 | 1425.5 | 1185.6 NM_148906.1 |
| 115.4 | 145.3 | 127.2 | 93.1 NM_130771.2 |
| 153.2 | 185.9 | 160.8 | 161.3 NM_133169.2 |
| 350 | 303.1 | 302.2 | 197.6 NM_017807.2 |
| 284.2 | 224.8 | 172.9 | 217.6 NM_022353.2 |
| 145.3 | 144.3 | 113.6 | 131 NM_182980.2 |
| 88.3 | 81.6 | 79.4 | 92.5 NM_013370.3 |
| 103.5 | 102.4 | 90.3 | 89 NM_020530.3 |
| 92.3 | 81.8 | 86.2 | 91.2 NM_003999.1 |
| 81 | 81.8 | 70.1 | 80.7 NM_145260.2 |
| 92.1 | 94.8 | 80.4 | 101.4 NM_053001.1 |
| 135.6 | 122.5 | 112 | 108.9 NM_053001.1 |
| 133 | 109.8 | 107.6 | 126.9 NM_012382.1 |
| 111.2 | 136.1 | 161.3 | 121.2 NM_152672.3 |
| 88.4 | 90.6 | 80.6 | 86 NM_178859.2 |
| 2871.1 | 2545.1 | 1998.3 | 1795.6 NM_012383.3 |
| 242.6 | 378.7 | 273.2 | 314.8 NM_014028.3 |
| 97 | 88.2 | 87.6 | 89.1 NM_198184.1 |
| 84 | 85.1 | 89.2 | 90.8 NM_000531.3 |
| 84.6 | 91.8 | 88.1 | 87.8 NM_139282.1 |
| 85.2 | 82.3 | 82.9 | 90.2 NM_170664.1 |
| 102 | 103.2 | 100.3 | 103.4 NM_144672.3 |
| 104.6 | 91.8 | 98.3 | 98.9 NM_144672.3 |
| 84.6 | 75.2 | 79.9 | 84.5 NM_194248.1 |
| 94.1 | 94.6 | 110.5 | 87.8 NM_194248.1 |
| 83.6 | 81.6 | 75.5 | 80.8 NM_194322.1 |
| 98.2 | 88.3 | 89.5 | 80.6 NM_177998.1 |

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| 92.2 | 89.2 | 85.6 | 83.9 NM_178160.1 |
| 87.8 | 85.7 | 84.1 | 79.2 NM_178233.1 |
| 85 | 86.1 | 81.6 | 84.3 NM_020157.2 |
| 86.3 | 85.3 | 75.9 | 83.9 NM_148961.3 |
| 109.8 | 99.8 | 100.6 | 102.1 NM_032109.2 |
| 96.6 | 87.9 | 94.7 | 89.1 NR_003089.1 |
| 146.8 | 119.7 | 116.2 | 112.3 NM_017670.1 |
| 199.5 | 168.5 | 148.4 | 124.8 NR_003089.1 |
| 131.9 | 120.8 | 111.5 | 110.2 NM_023112.2 |
| 336.6 | 292.7 | 256.1 | 258.2 NM_199324.1 |
| 104.5 | 99.9 | 89.9 | 93.8 NM_017493.4 |
| 105.5 | 97.6 | 92.8 | 99.2 NM_017493.4 |
| 100.2 | 94.6 | 103.4 | 90.3 NM_017602.2 |
| 96.6 | 88.9 | 94.5 | 95.3 NM_207320.1 |
| 230.2 | 175.4 | 177.3 | 163.2 NM_016023.2 |
| 89.2 | 93.6 | 79.8 | 91.3 XM_938058.1 |
| 79 | 82.7 | 81.6 | 95.4 NM_130901.1 |
| 483.8 | 446.9 | 440.2 | 277.8 NM_014562.2 |
| 89.5 | 81.3 | 89 | 90.4 NM_021728.2 |
| 97.7 | 90.4 | 90.7 | 98.7 NM_172337.1 |
| 92.3 | 94.3 | 87 | 90.6 NM_172337.1 |
| 99.5 | 83.3 | 93.9 | 99.6 NM_080822.1 |
| 81 | 75.6 | 82.3 | 87.6 NM_183378.1 |
| 79.5 | 82.6 | 79.3 | 86.1 NM_198185.1 |
| 195.4 | 205.1 | 174.5 | 171.9 NM_002557.3 |
| 84.3 | 93.7 | 83.6 | 79.2 NM_004561.2 |
| 386.2 | 237.1 | 258.9 | 177.2 NM_021220.2 |
| 84 | 76 | 73.7 | 86.9 NM_001080502.1 |
| 126.2 | 111.9 | 104.9 | 102.2 NM_001080502.1 |
| 1016.4 | 726.3 | 687.2 | 563.1 NM_005015.1 |
| 157.6 | 155.7 | 133.8 | 109 NM_000436.2 |
| 286.3 | 231.7 | 286.7 | 175.9 NM_022120.1 |
| 106.3 | 89.3 | 96.6 | 109.6 NM_148962.3 |
| 82.6 | 81.6 | 80.4 | 82.3 NM_080818.3 |
| 1798.8 | 1357.6 | 1250.7 | 1088.3 NM_181354.3 |
| 126.1 | 162.3 | 141.1 | 136.7 NM_017897.1 |
| 967.3 | 1179.7 | 925.3 | 816.6 NM_005109.2 |
| 74.9 | 80 | 81.7 | 88.5 NM_000915.2 |
| 86.1 | 88.4 | 88 | 92.7 NM_000916.3 |
| 105.4 | 110.5 | 106.7 | 100.4 NM_006025.2 |
| 1916.9 | 1816.3 | 1597.6 | 1469.7 NM_018170.2 |
| 159.4 | 153.7 | 130.9 | 142.5 NM_173829.2 |
| 164.5 | 228.2 | 277.1 | 208.5 NM_002558.2 |
| 95.2 | 81.7 | 92.4 | 99.7 NM_170682.2 |
| 90.5 | 84.7 | 87.2 | 89.7 NM_174873.1 |
| 95.7 | 95.2 | 90.7 | 103.1 XM_936449.1 |
| 120 | 99 | 89.5 | 90.3 NM_170683.2 |
| 95.2 | 89.2 | 84.4 | 88.4 NM_002559.2 |
| 92.6 | 78.5 | 81.8 | 85.8 NM_002559.2 |
| 342.9 | 365.2 | 315.7 | 311.5 NM_175568.1 |

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| 97.3 | 89.7 | 78.2 | 95.2 NM_175081.1 |
| 95.4 | 85.2 | 83.1 | 86 NM_175081.1 |
| 191.3 | 402.6 | 344.5 | 415.6 NM_002562.4 |
| 90.2 | 86.2 | 82.3 | 89.4 NM_005446.2 |
| 96.5 | 98.2 | 88.3 | 95.7 NM_002563.2 |
| 81.4 | 82.2 | 72.1 | 86.6 NM_198333.1 |
| 93.6 | 90.5 | 85.4 | 88.3 NM_014499.2 |
| 411.7 | 290 | 308 | 157 NM_002566.4 |
| 93.9 | 93.6 | 88.9 | 104.4 NM_176894.1 |
| 100.8 | 98.8 | 95.7 | 88.3 NM_176894.1 |
| 82 | 78.2 | 77.2 | 82.9 NM_023914.2 |
| 83.9 | 90.4 | 81.4 | 85.6 NM_014879.3 |
| 86 | 75.9 | 84.4 | 91 NM_014879.2 |
| 77.9 | 73.3 | 77.5 | 78.5 NM_014879.3 |
| 89.5 | 89.4 | 88.1 | 89.5 NM_176072.1 |
| 205.1 | 291.7 | 254.7 | 198.9 NM_176071.1 |
| 414.2 | 577.8 | 635 | 344 NM_002564.2 |
| 111.4 | 123.9 | 110.1 | 116.9 NM_176071.1 |
| 95.2 | 93.4 | 95 | 87.3 NM_002565.3 |
| 123.6 | 453.3 | 259.2 | 320.9 NM_005767.3 |
| 96.3 | 89.8 | 93.2 | 93.8 NM_176798.1 |
| 195.4 | 151.8 | 141 | 158.2 NM_176797.1 |
| 98.9 | 93.4 | 105.6 | 92.5 NM_004154.3 |
| 1962.2 | 1863.3 | 1621.5 | 1308.1 NM_178129.3 |
| 118.9 | 102.1 | 91 | 91.8 NM_001017962.1 |
| 208.5 | 171.3 | 153.9 | 195.1 NM_000917.2 |
| 196.4 | 176.4 | 168.8 | 130.1 NM_001017974.1 |
| 100.8 | 97.4 | 92.9 | 95.6 NM_001017974.1 |
| 91.9 | 83.6 | 90 | 89.3 NM_182904.3 |
| 88 | 92.2 | 80.3 | 85.9 NM_198180.1 |
| 78.5 | 76.4 | 81.4 | 77.7 NM_022112.1 |
| 125.6 | 173.2 | 155.6 | 117.2 NM_012385.1 |
| 1009.7 | 994.4 | 716.8 | 660.9 NM_006191.1 |
| 91.7 | 78.4 | 90.1 | 91.4 NR_003284.1 |
| 2166.6 | 907.9 | 689.8 | 1926.9 NM_002568.3 |
| 81.6 | 86.8 | 72.6 | 83.6 NM_030979.2 |
| 7530.1 | 8674.1 | 7152.1 | 5616.7 NM_003819.2 |
| 75.9 | 80.5 | 78.4 | 74 NM_080832.1 |
| 83.3 | 84 | 79.4 | 83.1 NM_080832.1 |
| 91.7 | 96.3 | 96.4 | 87.9 NM_080832.1 |
| 1310.1 | 1442.7 | 1133.9 | 975.8 NM_004643.1 |
| 85.9 | 86.3 | 71.1 | 79.7 NM_152410.1 |
| 85.5 | 90.7 | 78.2 | 77.3 NM_001080379.1 |
| 82.5 | 68 | 78.2 | 79.2 NM_001080379.1 |
| 104.6 | 97.5 | 102.8 | 109.2 NM_152410.1 |
| 119.8 | 128.3 | 128.3 | 134.8 NM_018026.2 |
| 162.2 | 138.8 | 129.1 | 127.5 NM_015197.1 |
| 119.4 | 116.7 | 122.6 | 115 NM_020804.2 |
| 2767.5 | 2653.1 | 2400.7 | 1378.9 NM_007229.1 |
| 108.6 | 122.4 | 105.9 | 107.3 NM_016223.3 |

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| 102.4 | 95.7 | 96.4 | 95.3 NM_013358.1 |
| 86.8 | 87 | 79.7 | 86.9 NM_007365.1 |
| 103.1 | 84.7 | 83.6 | 79.8 NM_016233.1 |
| 93.2 | 96.4 | 85.5 | 92.6 NM_012387.1 |
| 100.5 | 96.3 | 93.3 | 98.4 NM_207421.1 |
| 92.1 | 91.6 | 83.7 | 91.4 NM_001018049.1 |
| 86.1 | 85.7 | 81.8 | 82.5 NM_002571.2 |
| 351.5 | 268.9 | 319.2 | 233.6 NM_019088.2 |
| 280.9 | 355.1 | 339 | 236.8 NM_000430.2 |
| 125.9 | 116.2 | 95.8 | 97.6 NM_002572.1 |
| 1968.7 | 629.8 | 693 | 423.9 NM_002573.2 |
| 214.2 | 200.2 | 166.9 | 161.1 NM_000437.2 |
| 319.2 | 260.5 | 265.7 | 242.1 NM_018440.3 |
| 94.1 | 95.5 | 96.8 | 98.2 NM_003785.3 |
| 90.8 | 85.1 | 82.7 | 91.3 NM_207339.1 |
| 85.2 | 90.2 | 79 | 84.3 NM_001015038.1 |
| 85.3 | 93.3 | 81 | 86.8 NM_001017931.1 |
| 90.6 | 81.9 | 81.9 | 84 NM_007003.2 |
| 93.8 | 97.2 | 84.4 | 85.1 NM_130467.3 |
| 77.1 | 82.4 | 76.3 | 84.8 NM_130467.3 |
| 85.7 | 96.3 | 73.6 | 83.2 NM_000277.1 |
| 3569.7 | 2045.2 | 1729.7 | 1400.6 NM_006452.2 |
| 109.8 | 107.2 | 98.5 | 107.4 NM_006452.2 |
| 4690.7 | 2828.6 | 2079.5 | 1832.2 NM_006452.2 |
| 116.1 | 131.6 | 116.6 | 106.2 NM_182789.2 |
| 103.1 | 92.9 | 88.7 | 88.1 NM_006451.3 |
| 3768 | 3124.1 | 2711.9 | 3209 NM_001033112.1 |
| 89.3 | 89.3 | 85.8 | 88.9 NM_001033112.1 |
| 105.4 | 93.6 | 99.2 | 96.4 NM_016480.3 |
| 353 | 345.7 | 305.9 | 290.7 NM_002576.3 |
| 123.3 | 98.7 | 97.9 | 112.1 NM_017906.2 |
| 532.2 | 736.3 | 669.3 | 500.6 NM_002577.3 |
| 220.1 | 262.3 | 223 | 224.2 NM_002577.3 |
| 105.6 | 102.4 | 96.9 | 100.4 NM_002578.2 |
| 78.5 | 87 | 82.8 | 80.8 NM_005884.3 |
| 86.4 | 85.1 | 79.6 | 91.3 NM_001014831.1 |
| 201.9 | 160.1 | 149.8 | 129.5 NM_001014832.1 |
| 88.2 | 87.9 | 88.7 | 89.2 NM_020168.3 |
| 88.1 | 88.4 | 84.1 | 97.2 NM_020341.2 |
| 114.4 | 106.6 | 93.5 | 95.9 NM_020341.2 |
| 87 | 84.4 | 87.7 | 82.2 NM_016081.2 |
| 76.1 | 92.4 | 90.8 | 84.6 NM_002579.2 |
| 122.1 | 114 | 105.8 | 125.4 NM_002579.2 |
| 327.9 | 242.5 | 270 | 163.3 NM_002579.1 |
| 80.7 | 82.4 | 76.4 | 71.9 NM_001037293.1 |
| 72.1 | 84 | 83 | 89.9 NM_053016.3 |
| 96.1 | 87.5 | 87.1 | 90 NM_007203.3 |
| 89.9 | 89.7 | 80.6 | 86 NM_007203.3 |
| 83.8 | 97.3 | 94.4 | 90.3 NM_017734.2 |
| 750.2 | 650.5 | 609.7 | 470.4 NM_138821.1 |

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| 96.3 | 100.2 | 86.2 | 98.9 NM_005447.2 |
| 1070.1 | 952.9 | 851.6 | 1032.3 NM_175854.5 |
| 98.8 | 95.2 | 94.1 | 87.1 NM_148977.1 |
| 256.3 | 162.7 | 163.3 | 162.2 NM_138316.2 |
| 592.1 | 531.6 | 503.9 | 479.3 NM_153640.1 |
| 359.1 | 305 | 261.6 | 270.6 NM_153640.2 |
| 91.1 | 82.8 | 88 | 88.1 NM_024960.3 |
| 125.6 | 133.3 | 118.5 | 105.7 NM_024594.2 |
| 151.3 | 143.6 | 154.1 | 147.4 NM_018216.1 |
| 144.3 | 122.8 | 109 | 112.7 NM_015368.3 |
| 270.1 | 336.2 | 385.7 | 252 NM_052839.2 |
| 107.6 | 112.6 | 105.6 | 97.1 NM_052959.2 |
| 120.9 | 109.6 | 97.9 | 98.8 NM_152911.2 |
| 154.5 | 141.5 | 150.4 | 122.9 NM_207128.1 |
| 91 | 83.9 | 90.9 | 84.4 NM_152911.2 |
| 105.9 | 94 | 96.2 | 88.7 NM_001010861.1 |
| 96.6 | 94.3 | 84.1 | 88 NM_001037317.1 |
| 638.8 | 384.9 | 335.5 | 288.2 NM_018109.2 |
| 1260.7 | 1139.8 | 997.9 | 1337.2 NM_173797.2 |
| 170.5 | 189.5 | 189 | 126.9 NM_022447.1 |
| 102.7 | 130.8 | 166.5 | 119 NM_173462.2 |
| 1847.1 | 1310.6 | 1175.6 | 1137.3 NM_032632.3 |
| 95.6 | 90.3 | 87.8 | 87.6 NM_020144.3 |
| 122.8 | 119.5 | 118.6 | 103.7 NM_022894.2 |
| 82.3 | 91.8 | 83.1 | 80.9 NM_002581.3 |
| 92.4 | 87.5 | 88 | 91.6 NM_020318.1 |
| 88.5 | 77.7 | 83.1 | 89.1 NM_021936.1 |
| 107.6 | 129.6 | 115.4 | 120.6 NM_005443.4 |
| 155.9 | 192 | 170 | 151.3 NM_004670.3 |
| 346.9 | 233.2 | 169 | 192.9 NM_177453.2 |
| 1249.8 | 711.1 | 633.9 | 374.7 NM_152341.2 |
| 83.9 | 91.9 | 90 | 84.8 NM_017705.2 |
| 91.8 | 85.9 | 84.6 | 83.5 NM_024897.2 |
| 98.1 | 107.9 | 94.8 | 102.2 NM_198406.1 |
| 101.2 | 109.3 | 107.7 | 106.7 NM_024897.2 |
| 116.4 | 98.8 | 107.8 | 99.3 NM_178422.4 |
| 697.2 | 1027 | 718.3 | 607.1 NM_133367.2 |
| 109.7 | 86.8 | 87 | 103.1 NM_198504.1 |
| 107.3 | 117.6 | 125.1 | 135 NM_015089.2 |
| 93.1 | 84.9 | 79.1 | 94.9 NM_019619.2 |
| 97.1 | 89.4 | 90.3 | 87.9 NM_205863.2 |
| 119.9 | 83.9 | 96.3 | 82.1 NM_016948.1 |
| 94.7 | 93.6 | 100 | 97.8 NM_016948.2 |
| 87.4 | 90.5 | 94.4 | 88.7 NM_032521.1 |
| 109.8 | 101.5 | 91 | 97 NM_032510.2 |
| 104.9 | 98 | 102.6 | 95.4 NM_032510.2 |
| 114.2 | 85.9 | 88.7 | 102.1 NM_003631.2 |
| 93.4 | 84.6 | 90.8 | 85.1 NM_013987.1 |
| 93.3 | 83.3 | 86.3 | 89.6 NM_013987.1 |
| 3505 | 3533 | 3323.5 | 2302.8 NM_007262.3 |

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| 3233.5 | 3464.5 | 3222 | 2555.2 | NM_018622.5 |
| 915.8 | 838.8 | 717.4 | 721.3 | NM_018622.5 |
| 259.3 | 224.9 | 187.4 | 187.3 | NM_002582.1 |
| 6423.7 | 4490.7 | 3818.9 | 3133.5 | NM_001618.2 |
| 117.5 | 111.7 | 103.4 | 115.6 | NM_032789.1 |
| 142.3 | 178.3 | 183.8 | 122.2 | NM_032789.1 |
| 107.2 | 128.2 | 123.3 | 116.4 | NM_020367.3 |
| 153.9 | 163.8 | 141 | 126.3 | NM_022750.2 |
| 188.9 | 144.5 | 156.2 | 113.9 | NM_017554.1 |
| 90.8 | 86.4 | 82.6 | 88.5 | NM_152615.1 |
| 137.3 | 137 | 129.1 | 126.2 | NM_017851.4 |
| 477.3 | 307.4 | 311.8 | 314.3 | NM_005484.2 |
| 239.8 | 184.7 | 176.2 | 145.6 | NM_001042618.1 |
| 95.4 | 94.6 | 95.1 | 92.4 | NM_001003935.1 |
| 366.2 | 317.8 | 292.9 | 241.1 | NM_005485.3 |
| 140.2 | 146.1 | 156.7 | 134.6 | NM_001003931.1 |
| 1487.1 | 1695.7 | 1919.9 | 881.6 | NM_006437.2 |
| 127.8 | 146.3 | 135 | 141.2 | NM_020214.1 |
| 147.6 | 155.7 | 140.3 | 136.3 | NM_020213.1 |
| 97.5 | 103.8 | 98.4 | 102.3 | NM_020213.1 |
| 672.9 | 524.1 | 484.1 | 477 | NM_024615.2 |
| 94.4 | 100.5 | 90.6 | 87.5 | NM_031458.1 |
| 104.3 | 107.6 | 88.9 | 91.6 | NM_152268.2 |
| 89.3 | 79.9 | 84 | 94.3 | NM_016590.2 |
| 125.4 | 115.6 | 104.2 | 105.8 | NM_018222.2 |
| 861.4 | 742.4 | 549.2 | 694.6 | NM_013327.3 |
| 98.8 | 116.2 | 119.7 | 112.6 | NM_001003828.1 |
| 94.2 | 107.4 | 93.4 | 109.1 | NM_013327.3 |
| 3253.6 | 3107.4 | 2738.3 | 2105.9 | NM_022141.4 |
| 91.6 | 86.2 | 91.4 | 87 | NM_173493.1 |
| 147.5 | 146.4 | 133.7 | 129.2 | NM_015148.2 |
| 102.4 | 106.3 | 101.4 | 94.5 | NM_138294.2 |
| 97.9 | 79.8 | 86.9 | 94.7 | NM_032050.1 |
| 88.1 | 94.2 | 91.6 | 95.1 | NM_006192.1 |
| 101 | 93.2 | 103.3 | 95.5 | NM_003988.2 |
| 92.1 | 76 | 86.5 | 82.9 | NM_003988.2 |
| 102.1 | 101.5 | 92.9 | 89.8 | NM_000278.2 |
| 97.6 | 85.9 | 90.5 | 95.5 | NM_013942.2 |
| 78.2 | 84.1 | 76 | 93.5 | NM_000438.3 |
| 86.9 | 81 | 79.3 | 81.3 | NM_181458.1 |
| 95.8 | 93.8 | 101 | 91 | NM_181457.1 |
| 104.2 | 101 | 89.9 | 96.4 | NM_006193.1 |
| 77.4 | 80.2 | 75.9 | 87 | NM_016734.1 |
| 85.4 | 77.9 | 81.8 | 86.3 | NM_001604.3 |
| 84.5 | 70.7 | 85.2 | 92.7 | NM_000280.2 |
| 237.2 | 242.3 | 229.7 | 223.7 | NM_002584.1 |
| 122.5 | 102.2 | 90.2 | 87.9 | NM_013992.2 |
| 101.9 | 97.7 | 92.3 | 95.3 | NM_013953.3 |
| 95.4 | 84.7 | 94.4 | 86.2 | NM_003466.2 |
| 87.7 | 91.2 | 78.8 | 90.8 | NM_006194.1 |

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|--------|--------|--------|--------|----------------|
| 742.4 | 646.8 | 730.1 | 396.9 | NM_007349.2 |
| 103.7 | 114.6 | 106.5 | 97.1 | NM_018313.2 |
| 145.2 | 196.1 | 193.1 | 133.9 | NM_181042.2 |
| 169.7 | 148.2 | 160.7 | 144.5 | NM_181042.2 |
| 155.3 | 152.1 | 132.3 | 122.6 | NM_005746.1 |
| 175.5 | 176.8 | 147.6 | 136.4 | NM_182790.1 |
| 896.1 | 384.6 | 371.2 | 255.2 | NM_018492.2 |
| 88.9 | 88.1 | 88.9 | 83.1 | NM_021635.2 |
| 89.8 | 90.6 | 78.3 | 80 | NM_002585.1 |
| 223.3 | 450.9 | 474.4 | 260.2 | NM_002586.3 |
| 7932.5 | 4903.3 | 4717.1 | 3681.9 | NM_006195.4 |
| 133.9 | 111.3 | 127.4 | 113.9 | NM_025245.1 |
| 103.9 | 108.2 | 107.6 | 96.1 | NM_020524.2 |
| 90.7 | 86.7 | 87.3 | 92.6 | NM_000920.2 |
| 89.6 | 108.5 | 77.1 | 91.1 | NM_022172.2 |
| 107.3 | 112.4 | 102.3 | 109.3 | NM_000920.2 |
| 95 | 89.6 | 87.1 | 85.7 | NM_001044264.1 |
| 103.5 | 91.4 | 91.3 | 90.6 | NM_003884.3 |
| 299.5 | 265.2 | 226.6 | 186.5 | NM_000281.2 |
| 408.3 | 333.6 | 320.5 | 255.7 | NM_001001939.1 |
| 165.7 | 153.7 | 182 | 146.7 | NM_032151.3 |
| 4411.2 | 4802.3 | 4033.2 | 2588.9 | NM_006196.2 |
| 5187.1 | 4932.3 | 4549.3 | 4737.4 | NM_005016.3 |
| 2234.9 | 2809.3 | 2484.5 | 1475.9 | NM_031989.2 |
| 97.9 | 102.5 | 88.5 | 93.1 | NM_020528.1 |
| 237.5 | 200 | 228.8 | 160.6 | NM_033009.1 |
| 108.5 | 103.7 | 102.5 | 95.9 | NM_033008.1 |
| 91.8 | 86.6 | 91.1 | 78.5 | NM_020418.2 |
| 208.9 | 232.4 | 210 | 174.8 | NM_033008.1 |
| 577.9 | 567.2 | 518.1 | 492.4 | NM_000282.2 |
| 3027.9 | 2254 | 2114.8 | 1297.6 | NM_000532.2 |
| 81.7 | 87.8 | 78.9 | 82.9 | NM_032420.2 |
| 100.5 | 99.2 | 83.2 | 92.2 | NM_002587.3 |
| 90.8 | 84.9 | 75.3 | 84.5 | NM_020815.1 |
| 84.9 | 85.2 | 85.1 | 81.4 | NM_020815.1 |
| 94.6 | 87 | 91.1 | 90.3 | NM_032961.1 |
| 107.3 | 98.2 | 98.8 | 99.1 | NM_032967.1 |
| 89.2 | 83.7 | 86 | 92.6 | NM_032968.2 |
| 93.8 | 87.9 | 97.8 | 102.3 | NM_014522.1 |
| 83.6 | 86.5 | 79.6 | 81.9 | NM_032973.1 |
| 79.3 | 82 | 84.8 | 84.8 | NM_032971.1 |
| 83.9 | 78.2 | 80.3 | 84 | NM_032973.1 |
| 94 | 95.2 | 85 | 91.4 | NM_016580.2 |
| 94.8 | 90.7 | 89 | 89.9 | NM_033056.2 |
| 93.7 | 88.2 | 86.9 | 88.3 | NM_014459.2 |
| 99.4 | 106.5 | 97.5 | 83.8 | NM_019035.2 |
| 93.5 | 88.7 | 98.6 | 93.4 | NM_020766.1 |
| 185.4 | 173.2 | 132.8 | 153.9 | NM_022843.2 |
| 85.2 | 89 | 88.6 | 92 | NM_033100.1 |
| 96.6 | 103.5 | 94.5 | 98 | NM_002589.2 |

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| 86.9 | 84.7 | 90.7 | 89.5 NM_032457.1 |
| 104.6 | 95.8 | 93.8 | 92.4 NM_032456.1 |
| 92.4 | 87.5 | 85.4 | 83.3 NM_002589.2 |
| 105.8 | 96.7 | 90.7 | 101.9 NM_002590.2 |
| 86.9 | 78.2 | 72.2 | 90.6 NM_002590.2 |
| 82.8 | 89.3 | 86.9 | 81.5 NM_203487.1 |
| 82.8 | 88.3 | 85.6 | 86.8 NM_020403.3 |
| 86.1 | 93.9 | 87.8 | 97 NM_020403.3 |
| 88.4 | 83.2 | 75.9 | 93 NM_031411.1 |
| 88.1 | 81.3 | 85.7 | 85.9 NM_031410.1 |
| 99.3 | 102.8 | 88.7 | 101.8 NM_031410.1 |
| 97.1 | 81.4 | 94.4 | 88.1 NM_031859.1 |
| 86.1 | 79.2 | 77.1 | 84.3 NM_031859.1 |
| 94.3 | 87.6 | 95.6 | 97.6 NM_031861.1 |
| 88.7 | 90.5 | 80.5 | 87.5 NM_031864.1 |
| 90.5 | 89.3 | 90.6 | 89.4 NM_018903.2 |
| 82.7 | 87.5 | 82.7 | 89.6 NM_031865.1 |
| 80.3 | 80.3 | 77.9 | 79.9 NM_031495.1 |
| 90.7 | 87.8 | 85.9 | 92 NM_018906.2 |
| 81.7 | 88.7 | 74.5 | 86.4 NM_031497.1 |
| 92.8 | 90.2 | 88 | 92.9 NM_018906.2 |
| 95.5 | 102.4 | 95.2 | 100.8 NM_031500.1 |
| 104.5 | 101.9 | 106.9 | 98.3 NM_031501.1 |
| 82.3 | 88 | 89.1 | 88.8 NM_031848.1 |
| 98.6 | 83 | 90 | 87.9 NM_031849.1 |
| 85.7 | 85.3 | 88.6 | 92 NM_018910.2 |
| 117.9 | 112.1 | 97.5 | 101.1 NM_018910.2 |
| 81.5 | 81.3 | 80.7 | 79.1 NM_031852.1 |
| 102.9 | 89.2 | 94.6 | 79.5 NM_031856.1 |
| 94.2 | 93.8 | 89.2 | 95.2 NM_014005.3 |
| 87 | 76 | 77.1 | 86 NM_014005.3 |
| 94 | 75.8 | 84.1 | 97.3 NM_031882.2 |
| 88.8 | 81.4 | 85.1 | 86.9 NM_031882.2 |
| 101.6 | 98.3 | 92.6 | 92.6 NM_031883.2 |
| 100.4 | 93.1 | 83.5 | 87.8 NM_018899.4 |
| 100.4 | 126.6 | 122.6 | 106.6 NM_031883.2 |
| 77.9 | 79.6 | 77.7 | 84.4 NM_013340.2 |
| 99.9 | 100 | 94.7 | 103.6 NM_018930.3 |
| 86.1 | 87.3 | 79.9 | 87.1 NM_018931.2 |
| 108.1 | 92.9 | 85.8 | 95.8 NM_018932.3 |
| 99.5 | 92.2 | 84.9 | 89.5 NM_018933.2 |
| 104.1 | 104.5 | 103.9 | 85.9 NM_018934.2 |
| 87.8 | 84.8 | 83 | 86.2 NM_018935.2 |
| 87.6 | 78.9 | 95.2 | 88.4 NM_020957.1 |
| 172.3 | 134.7 | 137.8 | 123.5 NR_001280.1 |
| 86.9 | 80.9 | 84.3 | 87.6 NR_001281.1 |
| 866 | 475.4 | 480 | 341.2 NM_018936.2 |
| 86.1 | 80.3 | 79.3 | 81.2 NM_018937.2 |
| 98.1 | 102.4 | 98.2 | 101.6 NM_018938.2 |
| 217.7 | 174 | 151.2 | 151.4 NM_015669.2 |

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| 92.3 | 84 | 80.3 | 80.9 NM_018939.2 |
| 82.9 | 73.8 | 76.9 | 86.1 NM_018940.2 |
| 85.3 | 91.7 | 86.9 | 95.7 NM_019120.2 |
| 173.4 | 188.4 | 297.4 | 182.5 NM_019119.3 |
| 93.1 | 102.6 | 90.9 | 85.2 NM_031993.1 |
| 99.6 | 85.9 | 95.5 | 90.2 NM_018912.2 |
| 95 | 91 | 81 | 86.8 NM_031993.1 |
| 92.8 | 93.6 | 86.6 | 101 NM_032090.1 |
| 87.5 | 81.5 | 85.1 | 88.1 NM_032091.1 |
| 88.3 | 89.3 | 80.1 | 89 NM_032091.1 |
| 90.3 | 87.1 | 100.8 | 79.9 NM_032094.1 |
| 91.6 | 97.3 | 72.2 | 82.4 NM_032009.1 |
| 96.2 | 91.5 | 80.3 | 99.4 NM_032011.1 |
| 96.5 | 87.2 | 87 | 93.1 NM_032011.1 |
| 81.5 | 79 | 70.3 | 74.7 NM_032053.1 |
| 86.8 | 80.9 | 69.1 | 87.6 NM_032053.1 |
| 92.2 | 95.1 | 93.4 | 99.8 NM_032054.1 |
| 83.9 | 87.2 | 78.9 | 83.6 NM_018918.2 |
| 101.7 | 88.8 | 101.8 | 99.4 NM_032086.1 |
| 95.2 | 83 | 85.6 | 84.3 NM_032087.1 |
| 78.5 | 79.1 | 68.8 | 76.3 NM_032087.1 |
| 79.8 | 83.6 | 77.6 | 90.5 NM_014004.2 |
| 80.1 | 80.1 | 74.5 | 85.1 NM_032089.1 |
| 100.6 | 88.3 | 82.1 | 83.4 NM_018921.2 |
| 103.6 | 92.3 | 85.1 | 100.3 NM_032095.1 |
| 91 | 85.2 | 89.8 | 99.5 NM_032096.1 |
| 103.7 | 98.3 | 90.1 | 93.1 NM_032097.1 |
| 114.3 | 106.2 | 86.8 | 87.7 NM_032098.1 |
| 97.2 | 91 | 89.6 | 97.9 NM_032099.1 |
| 90.5 | 92.8 | 93.2 | 88.7 NM_018926.2 |
| 120.4 | 115.4 | 122 | 110.1 NM_032100.1 |
| 92.5 | 88.3 | 79.9 | 83.3 NM_032101.1 |
| 92.8 | 91.3 | 83 | 94 NM_032101.1 |
| 91.5 | 93.3 | 83.2 | 94.5 NM_002588.2 |
| 94.6 | 94 | 88.3 | 90.3 NM_002588.2 |
| 117 | 111.7 | 118.2 | 99.5 NM_032402.1 |
| 91.9 | 97.1 | 96.3 | 91.4 NM_032406.1 |
| 81.8 | 81.5 | 83 | 78.1 NM_032406.1 |
| 94.2 | 91.2 | 90.1 | 85.2 NM_018929.2 |
| 101.4 | 93.2 | 98.9 | 88 NM_032407.1 |
| 271.9 | 342.1 | 303.9 | 287 NM_015885.2 |
| 303.3 | 287.8 | 241.1 | 230 NM_032673.1 |
| 169.6 | 93 | 89.4 | 91.2 NM_007144.2 |
| 94 | 91 | 98.4 | 87.5 NM_006315.4 |
| 2773.7 | 1409.5 | 1260.3 | 1023.9 NM_005180.5 |
| 109.6 | 96.9 | 84 | 93.8 NM_032373.2 |
| 228.7 | 137.8 | 126.2 | 135.6 NM_032154.3 |
| 249.3 | 167.1 | 143.1 | 136.8 NM_001011663.1 |
| 758.4 | 507.4 | 389.9 | 530.4 NM_006360.3 |
| 88.6 | 82.4 | 78 | 79.3 NM_002591.2 |

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| 156.5 | 112.3 | 116.2 | 113.9 NM_001018073.1 |
| 935.4 | 480.9 | 492.8 | 414 NM_004563.2 |
| 113.5 | 90.1 | 91.1 | 95.5 NM_001018073.1 |
| 132.5 | 113.9 | 113.3 | 112 NM_017675.3 |
| 1181.3 | 1314.1 | 1108.9 | 1187.1 NM_006197.2 |
| 4357.9 | 3727.1 | 3278.2 | 2478.1 NM_005389.1 |
| 196.3 | 209.7 | 196 | 265.5 NM_052937.1 |
| 476.3 | 643.8 | 507.3 | 552.6 NM_018257.1 |
| 119.3 | 86.2 | 89 | 84.7 NM_002592.2 |
| 131.8 | 112.5 | 116.6 | 110.4 NM_182649.1 |
| 1032.2 | 636.8 | 675.6 | 856.6 NM_182649.1 |
| 3682.7 | 3198 | 2670.5 | 2720.1 NM_020357.1 |
| 509 | 867.2 | 903.3 | 508 NM_006031.3 |
| 353.1 | 459.2 | 416.3 | 256.1 NM_014982.1 |
| 108 | 105.9 | 98.9 | 101.4 NM_024938.2 |
| 99.5 | 107.1 | 102.4 | 101 NM_024938.2 |
| 107.5 | 124.6 | 110 | 107 NM_014801.2 |
| 114 | 106.4 | 100.4 | 96.1 NM_002593.2 |
| 137.2 | 233.7 | 170 | 157.7 NM_013363.2 |
| 400.4 | 287.4 | 262.9 | 286.2 NM_002768.1 |
| 99.1 | 88 | 95.2 | 99.6 NM_174895.1 |
| 92.6 | 91 | 79.8 | 85.8 NM_006198.2 |
| 121 | 142.5 | 120.4 | 133.3 NM_015889.3 |
| 126.9 | 141.6 | 131.2 | 127.8 NM_001003891.1 |
| 88.6 | 83.3 | 82.7 | 75.8 NM_000439.3 |
| 79.1 | 91 | 75.6 | 82.7 NM_013271.2 |
| 89.1 | 84.1 | 83.5 | 73.9 NM_002594.2 |
| 95.3 | 97.9 | 103.6 | 91.6 NM_017573.3 |
| 85.6 | 86.5 | 77.9 | 84.7 XM_940023.1 |
| 84.7 | 78.4 | 79 | 83.9 NM_138325.2 |
| 104.9 | 107.2 | 103.2 | 102.1 NM_138325.2 |
| 98.5 | 98.9 | 94.2 | 85.4 NM_138322.2 |
| 101.7 | 95 | 90.5 | 88.9 NM_138323.1 |
| 277.4 | 243.8 | 236.4 | 171.4 NM_004716.2 |
| 95.4 | 88.2 | 86.9 | 89.3 NM_174936.2 |
| 99.2 | 100.8 | 97.4 | 102.4 NM_006201.3 |
| 85.3 | 79.6 | 87.6 | 78.2 NM_033018.2 |
| 89 | 96.3 | 79.2 | 79 NM_002595.2 |
| 112.8 | 111.3 | 101.4 | 114.9 NM_212503.1 |
| 81.3 | 87.5 | 86 | 89.1 NM_002596.2 |
| 83.7 | 89.7 | 83.1 | 79.9 NM_002596.2 |
| 82.2 | 88.4 | 79.8 | 74.9 NM_212503.1 |
| 151.1 | 142 | 126.2 | 147.5 NM_021213.1 |
| 246 | 509.7 | 584 | 404.9 NM_016297.2 |
| 87.8 | 90.5 | 83.3 | 93.6 NM_005017.2 |
| 90.7 | 91 | 80 | 90.2 NM_004845.3 |
| 91 | 104.6 | 87.2 | 89.4 NM_002861.1 |
| 79.7 | 80.3 | 83.7 | 71 NM_014891.5 |
| 91 | 94 | 94.5 | 95.5 NM_002597.3 |
| 81.6 | 72.9 | 76.1 | 81.8 NM_002597.3 |

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| 97.1 | 91.6 | 95.5 | 78.7 | NM_005018.1 |
| 152.3 | 121.6 | 118.6 | 129.9 | NM_145859.1 |
| 93.3 | 103.7 | 107.6 | 98.3 | NM_007217.3 |
| 895.7 | 725.4 | 625.3 | 548.4 | NM_145860.1 |
| 133.3 | 115.7 | 105.9 | 130.5 | NM_145860.1 |
| 82 | 80.2 | 74.3 | 73.4 | NM_025239.2 |
| 928.4 | 825.7 | 684 | 741.6 | NM_144781.1 |
| 1607.3 | 2066 | 1468.3 | 1073.9 | NM_002598.2 |
| 981.1 | 1371.5 | 1572.4 | 1003.8 | NM_145341.2 |
| 976 | 754.2 | 689.7 | 708.9 | NM_004708.2 |
| 3152 | 2908.3 | 2646.2 | 1973.6 | NM_013232.2 |
| 88.3 | 86.7 | 81.7 | 79.8 | NM_013374.3 |
| 5001.2 | 6309.1 | 6899.8 | 6575 | NM_005707.1 |
| 221.1 | 149 | 153.5 | 127.7 | NM_004208.2 |
| 294.1 | 270.1 | 275.9 | 195.6 | NM_004208.2 |
| 95.9 | 85.6 | 81.7 | 89.7 | NM_145812.1 |
| 170.1 | 112.9 | 118.7 | 109.5 | NM_005388.2 |
| 84.9 | 83.2 | 84.8 | 79.8 | NM_152401.2 |
| 447.4 | 520.6 | 438.9 | 284.5 | NM_024065.3 |
| 116.1 | 103.6 | 119.7 | 108.6 | NM_182612.1 |
| 251 | 215.6 | 199.8 | 176.9 | NM_182612.1 |
| 87.9 | 78.7 | 81.1 | 87.4 | NM_006661.1 |
| 79.3 | 87.7 | 85 | 83.6 | NM_001077358.1 |
| 98.3 | 101.9 | 97.9 | 106.2 | NM_016953.2 |
| 98.1 | 98.7 | 95.3 | 98 | NM_016953.3 |
| 98.4 | 87.1 | 87.3 | 91.9 | NM_001003683.1 |
| 104.1 | 99.1 | 90.2 | 100.7 | NM_005019.3 |
| 95.3 | 94.8 | 96.1 | 94.6 | NM_001003683.1 |
| 135.6 | 175.6 | 169.8 | 161.2 | NM_000924.2 |
| 86.5 | 94.5 | 84 | 90.8 | NM_005020.1 |
| 88.4 | 84.6 | 84.5 | 79.7 | NM_002599.1 |
| 89.4 | 86.5 | 81.4 | 91.1 | NM_000921.3 |
| 580.2 | 663 | 539.4 | 531 | NM_000922.2 |
| 91.7 | 84.2 | 94.6 | 87.6 | NM_006202.1 |
| 105.4 | 229.3 | 161.9 | 203.3 | NM_002600.3 |
| 84.9 | 108.5 | 95 | 96.7 | NM_002600.2 |
| 87 | 83.2 | 99.5 | 88.9 | NM_001037340.1 |
| 82.6 | 89.3 | 79.9 | 84.1 | NM_001037341.1 |
| 89.5 | 86.7 | 82.3 | 82.8 | NM_000923.2 |
| 160.9 | 178.6 | 139.3 | 136.7 | NM_006203.3 |
| 100.3 | 91.6 | 90.8 | 95.8 | NM_001002811.1 |
| 97.2 | 91.2 | 89.3 | 86.3 | NM_022359.3 |
| 86.9 | 77.4 | 79.7 | 73 | NM_014644.3 |
| 98.3 | 93 | 94.3 | 91.7 | NM_033437.2 |
| 109 | 91.1 | 100.4 | 95.2 | NM_033437.2 |
| 95.8 | 90.8 | 85.8 | 79.9 | NM_001083.3 |
| 81.4 | 83.8 | 78.9 | 78 | NM_033430.2 |
| 80.7 | 85.8 | 85.2 | 88.7 | NM_001083.3 |
| 93.8 | 87.7 | 91.3 | 96.4 | NM_000440.1 |
| 89.8 | 79.9 | 79.7 | 75.5 | NM_000283.1 |

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| 95.2 | 92.2 | 80.4 | 75.3 | NM_006204.2 |
| 217.5 | 197.7 | 189.4 | 135.6 | NM_002601.2 |
| 119 | 109.1 | 99.8 | 106.4 | NM_002602.1 |
| 105.6 | 91.5 | 89.1 | 89.6 | NM_006205.1 |
| 363.7 | 269.5 | 266.6 | 234.6 | NM_002603.1 |
| 342.6 | 567.1 | 858.7 | 437.3 | NM_002604.1 |
| 107.6 | 97 | 95.2 | 97.2 | NM_002603.1 |
| 206.5 | 146 | 146.7 | 118.8 | NM_018945.3 |
| 174.7 | 139.2 | 147.5 | 117 | NM_173455.1 |
| 106.3 | 108 | 93.6 | 89.2 | NM_002605.2 |
| 90.9 | 90.7 | 84.5 | 92.3 | NM_002605.2 |
| 101.2 | 101.6 | 101.3 | 89.9 | NM_001029851.1 |
| 99.2 | 102.2 | 88.4 | 86.9 | NM_001029851.1 |
| 105.8 | 93.7 | 94.5 | 89.2 | NM_001001584.1 |
| 105.7 | 127.4 | 146.9 | 114.3 | NM_001001567.1 |
| 91.6 | 89.7 | 86.2 | 79.6 | NM_001001573.1 |
| 87 | 93.2 | 87.6 | 92 | NM_001001570.1 |
| 94.8 | 90.6 | 94 | 83.8 | NM_022341.1 |
| 89.1 | 93 | 81.6 | 86.4 | NM_033023.3 |
| 99.4 | 87.5 | 93.6 | 92.6 | XM_942520.1 |
| 94 | 89.7 | 87.5 | 89.2 | NM_002608.1 |
| 94.7 | 90.4 | 92.6 | 95.4 | NM_033016.1 |
| 113.2 | 114.5 | 109.9 | 106.2 | NM_033016.1 |
| 111.4 | 111.9 | 108.9 | 114.1 | NM_016205.1 |
| 98.8 | 123 | 111.9 | 108.4 | NM_025208.4 |
| 114.7 | 122.3 | 128.8 | 123.5 | NM_025208.3 |
| 174.7 | 153.6 | 161.4 | 129.8 | NM_006206.3 |
| 99.9 | 102.7 | 104.7 | 104.6 | NM_002609.3 |
| 122.8 | 108.6 | 105.4 | 110.4 | NM_006207.1 |
| 405.1 | 421.5 | 522.7 | 289.3 | NM_000284.1 |
| 84.7 | 80.8 | 77 | 76.5 | NM_005390.3 |
| 3310.3 | 2944.3 | 3011.3 | 2346.4 | NM_000925.1 |
| 506.1 | 497.4 | 390.4 | 365.9 | NM_003477.1 |
| 87.2 | 84.5 | 87.1 | 93.6 | NM_006849.1 |
| 86.1 | 75.9 | 90 | 87.5 | NM_005313.4 |
| 192.5 | 199 | 145.6 | 232.7 | NR_002305.1 |
| 137.4 | 128.9 | 123.1 | 127.2 | NM_004911.3 |
| 401 | 589.4 | 502.2 | 418 | NM_006810.1 |
| 1119.2 | 970.6 | 881.9 | 803 | NM_005742.2 |
| 212.9 | 186.5 | 189.8 | 163.5 | NM_152835.1 |
| 84.2 | 98.9 | 78 | 92.6 | NM_174924.1 |
| 94.1 | 109.1 | 110.2 | 86.6 | NM_002610.3 |
| 102.3 | 107.6 | 101.2 | 99.9 | NM_002611.3 |
| 166.7 | 123.5 | 130.2 | 135.4 | NM_005391.1 |
| 110.3 | 131.3 | 120.1 | 150.6 | NM_002612.2 |
| 555.2 | 208.8 | 199 | 159.7 | NM_020992.2 |
| 96.9 | 91.4 | 81 | 79 | NM_176871.2 |
| 82.9 | 75.1 | 66.6 | 75.7 | NM_198042.2 |
| 112.7 | 84 | 86.6 | 89.6 | NM_014476.1 |
| 93 | 91.6 | 87 | 92.3 | NM_003687.2 |

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| 146.7 | 121.2 | 115.3 | 118.5 NM_001011515.1 |
| 101.8 | 102.5 | 100.2 | 101.8 NM_006457.2 |
| 100.2 | 97.5 | 93.3 | 101.2 NM_001011516.1 |
| 163.8 | 136 | 108.1 | 131.6 NM_213636.1 |
| 250.5 | 223.8 | 198.6 | 179.8 NM_005451.3 |
| 268.6 | 188 | 136.2 | 136.7 NM_213636.1 |
| 136.6 | 120.1 | 96.2 | 117.7 NM_020786.1 |
| 96.8 | 93.8 | 96.2 | 106.1 XM_939834.1 |
| 442.7 | 374.7 | 300.5 | 258.5 NM_002613.3 |
| 921.1 | 834.7 | 747 | 909.3 NM_031268.4 |
| 113.3 | 94.7 | 91.9 | 93.7 NM_001006625.1 |
| 95.7 | 87 | 83.7 | 90.5 NM_198389.2 |
| 173.6 | 192.1 | 183.5 | 178.7 XM_942678.1 |
| 329.6 | 385.7 | 352.4 | 246.5 NM_017990.3 |
| 90.3 | 85.9 | 80.3 | 83.9 NM_017990.3 |
| 444.7 | 396.2 | 331.8 | 247.1 NM_030815.2 |
| 487.1 | 310.1 | 327.8 | 263.1 NM_014317.3 |
| 680 | 813.1 | 935.5 | 679.4 NM_020381.2 |
| 1285.9 | 1897.5 | 1898.6 | 834.6 NM_003681.3 |
| 1189.5 | 1053.2 | 1055.6 | 430.8 NM_020315.3 |
| 91.2 | 93.7 | 84.5 | 90.5 NM_024411.2 |
| 94.9 | 82.5 | 89.3 | 91.1 NM_016484.4 |
| 93.1 | 88.3 | 74.2 | 81.1 NM_024791.2 |
| 98.9 | 95.9 | 87.1 | 99.8 NM_032512.2 |
| 124.5 | 102 | 102 | 105.2 NM_024895.3 |
| 164.6 | 134.4 | 112.1 | 129 NM_173791.2 |
| 97.6 | 91.6 | 92.6 | 81.9 NM_002614.3 |
| 80.7 | 77.4 | 82.7 | 78.9 NM_005764.3 |
| 96.2 | 84.6 | 84.9 | 87.9 NM_178140.1 |
| 80 | 91.4 | 83.1 | 83.4 NM_178140.1 |
| 85.1 | 91.7 | 89.8 | 91.6 NM_001042516.1 |
| 95.9 | 86.1 | 79 | 91.5 NM_001042515.1 |
| 82.9 | 88.1 | 91.5 | 71.3 NM_001042516.1 |
| 82.4 | 90.9 | 85 | 76.8 NM_015009.1 |
| 82.9 | 93.1 | 83.1 | 91.6 NM_015009.1 |
| 87.6 | 86.5 | 77.3 | 84.8 XM_946222.1 |
| 94.2 | 89.2 | 86.2 | 93.2 NM_013377.2 |
| 2166.5 | 1444.3 | 1187.8 | 815.6 NM_003768.2 |
| 89 | 97.3 | 94.5 | 97.1 NM_001080471.1 |
| 582.9 | 626.1 | 445 | 518.7 NM_002567.2 |
| 81.4 | 87 | 76.1 | 77.2 NM_144962.1 |
| 592.1 | 711.9 | 571.1 | 613.9 NM_000442.2 |
| 192.7 | 196.2 | 214.4 | 151.7 NM_006117.2 |
| 209.8 | 227.2 | 184.7 | 201.3 NM_006117.2 |
| 280.4 | 240.5 | 235.1 | 197.2 NM_018441.2 |
| 253.7 | 270.9 | 253.6 | 200.8 NM_012392.1 |
| 79.5 | 73.6 | 73.3 | 79.6 NM_001040152.1 |
| 88.7 | 88.8 | 80.6 | 81.4 NM_006210.1 |
| 177.5 | 214 | 166.1 | 194.5 NM_020651.2 |
| 475.2 | 573.3 | 423.6 | 455.8 NM_021255.1 |

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| 101.7 | 106.4 | 98.3 | 110.8 NM_145065.1 |
| 1187 | 1079.6 | 878.8 | 575.5 NM_015946.4 |
| 207.7 | 166.9 | 145.6 | 146.3 NM_014389.1 |
| 305.4 | 244.2 | 251.4 | 170.8 NM_148173.1 |
| 95.5 | 89.6 | 88.8 | 86.7 NM_148173.1 |
| 85.8 | 86.5 | 81 | 88.1 NM_007169.2 |
| 107.1 | 98.2 | 93.4 | 85.5 NM_148172.1 |
| 677 | 396.6 | 372.2 | 257.4 NM_006211.2 |
| 212.6 | 143.1 | 153.9 | 126.5 NM_021830.3 |
| 628.1 | 612.3 | 513.2 | 448.5 NM_000285.1 |
| 80.7 | 83.8 | 80.6 | 83.4 NM_002616.1 |
| 78.1 | 82.1 | 75.7 | 79.8 NM_003894.3 |
| 1088.5 | 726.7 | 751.5 | 586 NM_022817.1 |
| 98.6 | 88.9 | 96 | 97.2 NM_001080526.1 |
| 319.5 | 442.6 | 413.2 | 228 NM_033419.3 |
| 107.4 | 118.9 | 85.5 | 110.6 NM_022121.2 |
| 120.9 | 124.3 | 120.9 | 114.6 NM_022574.2 |
| 146.6 | 122 | 114.7 | 98.7 NM_014303.2 |
| 207.3 | 205 | 219.3 | 146.7 NM_004564.1 |
| 143.1 | 165.1 | 152.4 | 149.9 NM_000466.1 |
| 93.5 | 86.1 | 87 | 83.6 NM_002617.3 |
| 95.5 | 83.4 | 91.5 | 101.5 NM_153818.1 |
| 97.1 | 98.3 | 89.5 | 95.2 NM_003847.1 |
| 952.5 | 642.4 | 562 | 469.7 NM_003846.1 |
| 95.5 | 98.2 | 88.6 | 93 NM_080662.2 |
| 84.1 | 98.8 | 84.8 | 88.5 NM_000286.1 |
| 78.2 | 80.7 | 74.3 | 82.1 NM_002618.2 |
| 190 | 149.4 | 128.1 | 135.4 NM_004565.1 |
| 500.5 | 387.7 | 403.5 | 252 NM_004813.1 |
| 125 | 112.1 | 102.2 | 106.7 NM_057174.1 |
| 781.9 | 506.2 | 549.6 | 361.2 NM_004813.1 |
| 492.3 | 630.3 | 540.3 | 432 NM_002857.2 |
| 104.1 | 93.9 | 95.9 | 94.1 NM_017929.3 |
| 97.9 | 100.2 | 95.2 | 102.2 NM_003630.1 |
| 477.3 | 559.3 | 507.1 | 320.5 NM_000319.3 |
| 96.4 | 105.4 | 89.4 | 88.9 NM_016559.1 |
| 154.8 | 156.7 | 144 | 132.7 NM_000287.2 |
| 335.6 | 333.2 | 306.5 | 253.2 NM_000288.1 |
| 86.2 | 93.4 | 93.9 | 93 NM_002619.1 |
| 96.4 | 99.7 | 87.2 | 90.5 NM_002620.1 |
| 229.1 | 255.2 | 289.4 | 220.6 NM_014887.1 |
| 360.7 | 294.4 | 267.6 | 216.3 NM_012393.1 |
| 138.3 | 218.4 | 205.4 | 198.3 NM_002621.1 |
| 1424.4 | 1334.9 | 1099.4 | 885.9 NM_002622.3 |
| 94.7 | 94.9 | 83 | 97.7 NM_012394.2 |
| 102.3 | 109.8 | 88.9 | 106.3 NM_002623.3 |
| 2675.5 | 4021.8 | 3766.5 | 2833.5 NM_002624.2 |
| 2268.1 | 2383.4 | 1789.4 | 2405.9 NM_145897.2 |
| 400.7 | 465.7 | 423.6 | 350.5 NM_014260.2 |
| 89.3 | 94 | 71.2 | 101 NM_002625.1 |

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| 96 | 85.5 | 83.6 | 91.4 NM_006212.2 |
| 100.6 | 93.3 | 89.4 | 97.1 NM_001018053.1 |
| 98.6 | 100.4 | 95.4 | 93.9 NM_001018053.1 |
| 753.3 | 619.3 | 639.1 | 393.4 NM_004566.2 |
| 393.8 | 543.4 | 577.2 | 310.4 NM_004567.2 |
| 90.1 | 86.9 | 85 | 88.2 NM_001002021.1 |
| 527.2 | 650.3 | 537.3 | 483.8 NM_002626.4 |
| 104.9 | 118.3 | 125.6 | 111.8 NM_000289.3 |
| 1264.4 | 607.1 | 511 | 410.6 NM_002627.3 |
| 20166 | 16115.5 | 15184.7 | 8483.2 NM_005022.2 |
| 91.5 | 91.3 | 86.9 | 94.5 NM_053024.2 |
| 109.8 | 99.6 | 83.4 | 95.2 NM_053024.2 |
| 85.2 | 81.9 | 85.6 | 82.4 NM_001029886.1 |
| 110.3 | 107 | 99 | 104.7 NM_199346.1 |
| 1474.7 | 759.5 | 679.5 | 509.6 NM_016095.1 |
| 133.9 | 148.1 | 107.3 | 129.6 NM_012395.2 |
| 99.7 | 100.4 | 92.2 | 87.9 NM_001079807.1 |
| 87.8 | 91.1 | 85.8 | 93.2 NM_001079808.1 |
| 97.8 | 105.5 | 98.8 | 82 NM_014224.1 |
| 2405.2 | 1221.4 | 1000.4 | 806.1 NM_002629.2 |
| 102.5 | 94.1 | 92.4 | 85.9 NM_000290.2 |
| 88.9 | 84.2 | 84.7 | 82.4 NM_001029891.2 |
| 92.5 | 89.7 | 87 | 92.6 NM_138575.1 |
| 92.3 | 93.9 | 93.9 | 89.9 NM_024989.3 |
| 141 | 127.1 | 122.9 | 120.9 NM_032507.2 |
| 211.1 | 168.5 | 165.2 | 166.3 NM_170725.2 |
| 94.1 | 107.1 | 90.7 | 100.8 NM_170725.2 |
| 106.2 | 91.7 | 85.3 | 90.7 NM_170753.1 |
| 98.1 | 102.1 | 90.6 | 99.6 NM_152595.4 |
| 218.9 | 233.9 | 209 | 183.5 NM_024554.2 |
| 92.9 | 79.1 | 88.4 | 91.8 NM_002630.1 |
| 694.1 | 492.1 | 458.1 | 372.4 NM_016134.2 |
| 4162.3 | 3498.5 | 3041.3 | 2347.8 NM_002631.2 |
| 89.8 | 86.7 | 84.9 | 91.6 NM_014485.2 |
| 264.5 | 250.5 | 291.2 | 215.4 NM_001002880.1 |
| 104.6 | 97.1 | 95.1 | 98.9 NM_001002880.1 |
| 78.2 | 83.1 | 71.1 | 69.3 NM_002632.4 |
| 252.5 | 239.6 | 218.5 | 194.6 NM_005023.2 |
| 1233.8 | 864.3 | 748.5 | 646.9 NM_000291.2 |
| 71.9 | 76.5 | 72.5 | 79.2 NM_138733.2 |
| 1508.5 | 1259.3 | 1184.8 | 1020.2 NM_012088.2 |
| 100.5 | 94.9 | 91.4 | 96.7 NM_005091.1 |
| 89.8 | 88.1 | 84.8 | 96.2 NM_052890.2 |
| 90.6 | 83.9 | 88 | 96 NM_052891.1 |
| 122.8 | 111 | 104.5 | 100.9 NM_020393.2 |
| 928.8 | 1057.7 | 931.9 | 705.4 NM_002633.2 |
| 581 | 393 | 341.5 | 285.7 NM_018290.2 |
| 114.8 | 108.4 | 100 | 115 NM_173582.3 |
| 170.3 | 169 | 165 | 159.3 NM_015599.1 |
| 101 | 96.1 | 95.3 | 98.5 NM_021965.3 |

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| 90.5 | 90.4 | 88.2 | 84.8 NM_021965.3 |
| 109.8 | 99.5 | 93.5 | 95.3 XM_936702.1 |
| 90.1 | 83.6 | 79.5 | 89.3 NR_002836.1 |
| 85.6 | 77.3 | 70.4 | 77.4 XR_001072.1 |
| 99.3 | 99.1 | 93.6 | 87.5 NM_017712.1 |
| 91.6 | 92.1 | 95.5 | 96.2 NM_000926.2 |
| 2064.2 | 1605.7 | 1473.6 | 970.9 NM_006667.2 |
| 1844.1 | 1220.3 | 1190.8 | 841 NM_006320.1 |
| 451.2 | 477.1 | 409.4 | 338.9 NM_024419.3 |
| 101.2 | 97.8 | 105.5 | 97.9 NM_017732.3 |
| 142.6 | 132.4 | 115.4 | 120.2 NM_177939.2 |
| 334 | 312.7 | 339.1 | 191.9 NM_177938.2 |
| 200.2 | 248.4 | 269.7 | 217.6 NM_032592.1 |
| 144.7 | 250.7 | 251.6 | 199.4 NM_030948.1 |
| 650.2 | 853.4 | 784.3 | 645.7 NM_014721.1 |
| 82.5 | 77.9 | 82.2 | 85.5 NM_080672.3 |
| 2178.3 | 1365 | 1311.2 | 970.1 NM_080672.3 |
| 311.7 | 237.6 | 197.4 | 186.6 NM_183246.1 |
| 967.7 | 1008.8 | 1118.8 | 686.3 NM_023923.2 |
| 88.6 | 87 | 81.4 | 94.5 NM_023923.3 |
| 80.4 | 75.7 | 79.4 | 74.9 NM_023923.3 |
| 476.1 | 538.7 | 419.5 | 314.7 NM_002634.2 |
| 429.3 | 310.2 | 326.8 | 259.5 NM_007273.3 |
| 112.2 | 114.6 | 101.7 | 117.3 NM_004426.2 |
| 87.1 | 90.7 | 87.9 | 84.4 NM_004427.2 |
| 138.8 | 177.3 | 143.8 | 141 NM_198040.1 |
| 91.2 | 87.9 | 90.3 | 88.4 NM_198040.1 |
| 141.6 | 138.3 | 137.9 | 144.9 NM_024947.2 |
| 308.5 | 360.9 | 341.3 | 222.1 NM_018367.3 |
| 89 | 93.6 | 75.6 | 88.6 NM_000444.2 |
| 103.2 | 103 | 104.9 | 120.5 NM_024165.1 |
| 124.9 | 159.5 | 144.3 | 148.9 NM_002636.3 |
| 206.2 | 219.1 | 188.1 | 244 NM_002636.3 |
| 1170.4 | 737.6 | 598.9 | 659.3 NM_133325.1 |
| 960.3 | 615.7 | 538.4 | 448.5 NM_001040443.1 |
| 1569.3 | 934.2 | 932.8 | 618.1 NM_016119.1 |
| 103.1 | 93.3 | 83.1 | 89.6 NM_001040443.1 |
| 94.3 | 98.7 | 102.1 | 103.7 NM_020889.2 |
| 168.6 | 178.8 | 155.9 | 171.3 NM_001033561.1 |
| 79.7 | 89.8 | 75.3 | 75.7 NM_020889.2 |
| 450.9 | 384.3 | 359.5 | 268.1 NM_153812.1 |
| 85.3 | 85.6 | 87.9 | 93 NM_001007157.1 |
| 127 | 125.2 | 107 | 110.4 NM_014660.2 |
| 249.2 | 242.6 | 194.2 | 207.3 NM_001007157.1 |
| 381.9 | 319.9 | 339.4 | 231.3 NM_015288.4 |
| 279.3 | 305.2 | 278.7 | 246.7 NM_014735.2 |
| 86.7 | 92.5 | 87.9 | 78 NM_014735.3 |
| 108.3 | 115.4 | 102.2 | 107.4 NM_199320.1 |
| 461.8 | 289.2 | 270.1 | 197.4 NM_024900.2 |
| 122.7 | 117.2 | 109.7 | 114.5 NM_199320.1 |

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| 282.3 | 210.7 | 193.2 | 162.1 NM_015651.1 |
| 241.9 | 189.5 | 168.7 | 126.2 NM_001009936.1 |
| 202 | 146.2 | 147.3 | 131.7 NM_001009936.1 |
| 92.5 | 94.2 | 79.6 | 86.8 NM_005392.2 |
| 378.7 | 313.3 | 289.6 | 262.4 NM_024517.1 |
| 167.8 | 224.1 | 212.5 | 175.2 NM_016436.3 |
| 131.2 | 136.1 | 118.9 | 137.3 NM_198513.1 |
| 859 | 1077.7 | 658.5 | 929.7 NM_016018.3 |
| 99.8 | 98 | 95.7 | 107.3 NM_198513.1 |
| 98 | 97.4 | 104.7 | 105.2 NM_032205.2 |
| 201.3 | 219.7 | 168.2 | 218 NM_198513.1 |
| 965 | 1026.4 | 1006.1 | 712.8 NM_016621.2 |
| 103.1 | 85.9 | 91.9 | 81.3 NM_138415.1 |
| 989.9 | 774.1 | 604.4 | 544.8 NM_020395.2 |
| 127.3 | 125.8 | 129 | 107.8 NM_024297.1 |
| 114.9 | 126.2 | 106.5 | 146.8 NM_015153.1 |
| 2293.2 | 1201.2 | 1150.8 | 693.2 NM_032758.3 |
| 102.7 | 97.6 | 95.6 | 99 NM_032335.2 |
| 81 | 85.6 | 86.1 | 89.5 NM_032458.2 |
| 135.4 | 169.7 | 149.6 | 135.7 NM_173341.1 |
| 95.7 | 93.3 | 96.3 | 99 NM_016483.4 |
| 103.5 | 109.2 | 103 | 99.5 NM_173341.1 |
| 86.7 | 84 | 83.2 | 81.7 NM_015107.1 |
| 11406.9 | 3308.4 | 3550 | 1959.9 NM_006623.2 |
| 496.8 | 517.4 | 564.8 | 270.1 NM_177967.2 |
| 855.5 | 1133.5 | 977.3 | 1016 NM_017934.4 |
| 117.1 | 147.2 | 119.9 | 123.6 NM_002637.1 |
| 336.3 | 526.2 | 614.6 | 425.1 NM_000292.1 |
| 242.6 | 278.1 | 232.6 | 230.8 NM_000293.1 |
| 109.9 | 110.4 | 92.2 | 108.5 NM_001031835.1 |
| 616.2 | 696.8 | 689.4 | 523.9 NM_001031835.1 |
| 103.5 | 97 | 100.8 | 95.1 NM_006213.3 |
| 142.9 | 125.6 | 143.1 | 118.4 NM_000294.1 |
| 139.1 | 118.9 | 95.8 | 101.2 NM_007350.2 |
| 97.1 | 93.3 | 86.2 | 86.1 NM_003311.3 |
| 99.3 | 88.6 | 92.9 | 93.3 NM_012396.2 |
| 312 | 193.9 | 238.2 | 134.9 NM_015157.1 |
| 87.9 | 89.9 | 76.4 | 84.9 NM_145753.1 |
| 84.9 | 89.3 | 89.9 | 78.7 NM_198850.2 |
| 160.2 | 195.4 | 192 | 163.1 NM_194449.1 |
| 121.3 | 126.3 | 104.9 | 119.8 NM_015020.2 |
| 85.9 | 91.9 | 81.5 | 82.5 NM_178500.2 |
| 87.6 | 78.8 | 78.3 | 82.8 NM_001008489.2 |
| 92.5 | 90.5 | 95.3 | 91.1 NM_005169.2 |
| 82 | 83.1 | 82.2 | 81.9 NM_003924.2 |
| 1490.5 | 1047 | 1602.6 | 1140.2 NM_014172.2 |
| 650.7 | 427.1 | 327.8 | 367.6 NM_006608.1 |
| 103.7 | 92.6 | 100.2 | 99.4 NM_020432.2 |
| 159.9 | 140.5 | 126.6 | 120.1 NM_006214.3 |
| 381 | 286.5 | 309.5 | 218.5 NM_006214.3 |

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| 582.2 | 562.5 | 442.9 | 400.4 NM_006214.2 |
| 1056 | 980.9 | 878.7 | 547.4 NM_012260.1 |
| 79.6 | 79.7 | 78.5 | 77.1 NM_174933.2 |
| 105.7 | 108.2 | 100.3 | 102.9 NM_014759.2 |
| 87.6 | 83.5 | 83.5 | 85.1 NM_032439.1 |
| 153 | 113.4 | 123.3 | 106.8 NM_015886.3 |
| 107.9 | 101.7 | 90.1 | 88.2 NM_153370.2 |
| 88.4 | 84.2 | 90.5 | 86.1 NM_002638.2 |
| 102 | 95.3 | 94.5 | 108.8 NM_018323.2 |
| 129.6 | 114.7 | 102.7 | 106.7 NM_018425.2 |
| 498.6 | 684.4 | 539.1 | 596.1 NM_016166.1 |
| 84.1 | 85.3 | 77.8 | 73.1 NM_173206.2 |
| 401.7 | 312.3 | 237.9 | 226.1 NM_173206.2 |
| 131.5 | 115 | 117.6 | 105.3 XM_938229.1 |
| 132 | 119.2 | 117.3 | 122.3 NM_006099.2 |
| 671.8 | 753.3 | 761.8 | 420.2 NM_015897.2 |
| 145.8 | 102.1 | 105.1 | 95.8 NM_014422.2 |
| 89.1 | 88.6 | 75.2 | 84.1 NM_014422.2 |
| 94.7 | 103.6 | 89.4 | 91 NM_007166.2 |
| 402.2 | 437.9 | 340.4 | 413.9 NM_007166.2 |
| 158.9 | 167.3 | 158.5 | 148.8 NM_012407.3 |
| 140 | 105 | 103 | 123.7 NM_025049.2 |
| 94 | 77 | 82.1 | 79.8 NM_017993.1 |
| 730 | 611.5 | 559.4 | 573.5 NM_020472.1 |
| 80.2 | 92.4 | 75 | 77.3 NM_002641.1 |
| 126.9 | 110.8 | 108.4 | 120.9 NM_020473.2 |
| 648.1 | 810.1 | 569.4 | 533.7 NM_004855.3 |
| 897.4 | 625.8 | 490.6 | 467.4 NM_153747.1 |
| 246.1 | 202.9 | 183.3 | 168.4 NM_153747.1 |
| 633.4 | 564.2 | 402.6 | 465 NM_173074.1 |
| 94.1 | 116.5 | 96.9 | 108.3 NM_173074.1 |
| 191.9 | 155.3 | 152.8 | 137.5 NM_017733.2 |
| 227.9 | 141.8 | 133.6 | 149 NM_004569.2 |
| 368.3 | 321.1 | 275.4 | 246.2 NM_005482.1 |
| 100.4 | 96.9 | 99.1 | 91.9 NM_004278.2 |
| 166.1 | 190 | 164.9 | 163.5 NM_145167.1 |
| 92.9 | 98 | 88.2 | 86.5 NM_176787.3 |
| 341.8 | 409.2 | 379.6 | 247.2 NM_176787.3 |
| 472.6 | 648.3 | 506.3 | 476.3 NM_012327.3 |
| 149.7 | 122.9 | 105 | 103.3 NM_032634.2 |
| 241.2 | 165.9 | 142.8 | 163.3 NM_152850.2 |
| 114.2 | 100.2 | 99.6 | 107 NM_032634.2 |
| 266.3 | 257.2 | 222.2 | 141.2 NM_004204.2 |
| 92.4 | 93.1 | 89.5 | 97.1 NM_002644.2 |
| 571.5 | 558.2 | 538.5 | 443.1 NM_033198.2 |
| 851.1 | 678.5 | 643.5 | 461.8 NM_015937.2 |
| 179.5 | 213.2 | 211.1 | 233.8 NM_017837.2 |
| 86.9 | 89.2 | 85 | 83.5 NM_178517.3 |
| 121.6 | 129.5 | 143.4 | 108.1 NM_017861.1 |
| 2647 | 1882.6 | 1459.3 | 1413.8 NM_032906.2 |

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| 113 | 183.7 | 172.6 | 151.1 NM_025163.2 |
| 161 | 161.8 | 162.9 | 133 NM_152309.2 |
| 127.8 | 127.2 | 112.8 | 124.8 NM_002645.1 |
| 102.2 | 113.4 | 99.4 | 95.6 NM_002646.2 |
| 91.9 | 86 | 81.5 | 78.6 NM_004570.2 |
| 97.9 | 102 | 102.9 | 117.2 NM_002647.2 |
| 112.2 | 96.7 | 97.2 | 112.2 NM_006218.2 |
| 217 | 241.9 | 176.3 | 215.1 NM_006219.1 |
| 362.4 | 382.5 | 369.4 | 261.1 NM_005026.2 |
| 299.6 | 300.7 | 242.8 | 231.4 NM_002649.2 |
| 335.5 | 487.2 | 486.9 | 438.6 NM_181504.2 |
| 97.5 | 80.5 | 76.4 | 79.7 NM_181504.2 |
| 89.5 | 91 | 94 | 88.9 NM_181524.1 |
| 104 | 89.7 | 89.3 | 89.1 NM_181523.1 |
| 95.7 | 108.3 | 98.6 | 102.6 NM_181504.2 |
| 973.9 | 1223.9 | 1265.8 | 530.2 NM_005027.2 |
| 88.6 | 98.4 | 98.6 | 106.5 NM_003629.2 |
| 166.6 | 189.3 | 159.7 | 141.8 NM_014602.1 |
| 87.3 | 100.8 | 99.7 | 88.6 NM_014308.1 |
| 1035.7 | 1330.4 | 1498.7 | 965.5 NM_058004.1 |
| 598.3 | 456.8 | 419.4 | 275.4 NM_002651.1 |
| 127.1 | 198.1 | 171.3 | 165.9 NM_178272.1 |
| 85.7 | 95.5 | 90.1 | 100.5 NM_178272.1 |
| 117.5 | 145.6 | 117.7 | 131.2 NM_013439.2 |
| 115.5 | 120.8 | 124.7 | 109.2 NM_013440.3 |
| 468.5 | 584.3 | 570.1 | 346.8 NM_175047.2 |
| 88.3 | 76.4 | 82.5 | 89.1 NM_178238.1 |
| 109.4 | 124.6 | 107.4 | 133.6 NM_175047.2 |
| 316.5 | 373.6 | 308.1 | 299.5 NM_002648.2 |
| 463 | 351.5 | 264.7 | 280.4 NM_006875.2 |
| 210.7 | 204.3 | 194.8 | 176.3 NM_001001852.2 |
| 94.8 | 79.2 | 74.2 | 86.4 NM_001001852.2 |
| 2326.4 | 1637.6 | 1534.6 | 789.2 NM_006221.2 |
| 150.2 | 135.3 | 121.3 | 108.3 NM_032409.1 |
| 192.4 | 165.7 | 165.5 | 123.8 NM_017884.3 |
| 90.7 | 93.2 | 90.6 | 77.5 NM_002652.2 |
| 246.7 | 222.5 | 246.9 | 208.9 NM_015553.1 |
| 103.1 | 102.1 | 99 | 86.8 NM_003557.1 |
| 96.1 | 90.9 | 83.6 | 91.4 NM_001031687.1 |
| 417.2 | 325.9 | 348.5 | 305.5 NM_012398.1 |
| 151.9 | 127.1 | 129.5 | 124.4 NM_005028.3 |
| 148.7 | 250.8 | 247.8 | 210.4 NM_138687.1 |
| 96.2 | 99.8 | 103.3 | 108.1 NM_003559.3 |
| 120.8 | 119 | 100.4 | 96.6 NM_024779.3 |
| 100.9 | 110.9 | 100.4 | 100.5 NM_152671.2 |
| 98.4 | 95.7 | 83.2 | 95.7 NM_152671.2 |
| 94.4 | 116 | 102.2 | 108.7 NM_015040.2 |
| 124.3 | 126.2 | 138.8 | 139.7 NM_173492.1 |
| 115.8 | 109 | 105.1 | 115.6 NM_016518.2 |
| 400.8 | 461.2 | 421.8 | 431.6 NM_001018109.1 |

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| 426.2 | 554.6 | 381.2 | 381.2 NM_001018109.1 |
| 335.9 | 377.7 | 335.3 | 311.3 NM_014338.3 |
| 152 | 137.7 | 120.7 | 122.3 NM_006224.2 |
| 395.2 | 330.7 | 295.5 | 255.5 NM_012399.3 |
| 224.1 | 227.7 | 178.7 | 164.6 NM_181671.1 |
| 88.3 | 90.7 | 89 | 98.6 NM_181671.1 |
| 415.1 | 513.4 | 402.7 | 442.8 NM_004910.1 |
| 114.9 | 136.5 | 114.7 | 100.7 NM_020845.1 |
| 73.6 | 77.9 | 84 | 79.7 NM_031220.1 |
| 229.6 | 266 | 220.6 | 198.1 NM_014889.2 |
| 1063.3 | 560.8 | 443.2 | 287.6 NM_002653.3 |
| 111.9 | 98.8 | 98.6 | 95.6 NM_000325.4 |
| 107.4 | 92.7 | 90.7 | 99.6 NM_153427.1 |
| 82.2 | 81.5 | 79.6 | 84.8 NM_153426.1 |
| 84.6 | 84.5 | 82.4 | 80.1 NM_005029.3 |
| 98.3 | 99.5 | 97.3 | 86.6 NM_004764.3 |
| 92.9 | 86.7 | 93.4 | 87.6 XM_938848.1 |
| 98.3 | 90.5 | 98.5 | 98.1 NM_018068.2 |
| 88.9 | 91.7 | 85.6 | 79.7 NM_001008496.1 |
| 223.6 | 194.4 | 154 | 172.4 NM_152431.1 |
| 101.4 | 102.5 | 91.7 | 94.4 NM_145119.2 |
| 232 | 209.7 | 206.3 | 194.5 NM_001032396.1 |
| 91 | 80.5 | 82.2 | 87.3 NM_145119.2 |
| 1745.3 | 2006.7 | 1604.6 | 1638.2 NM_014819.2 |
| 88 | 91.4 | 96.2 | 99.7 NM_001040066.1 |
| 173.6 | 195.9 | 187.8 | 203.9 NM_001009944.1 |
| 122.4 | 125.7 | 135.6 | 119.3 NM_001009944.1 |
| 91.8 | 102.1 | 89.9 | 97.3 NM_138295.2 |
| 88.4 | 90.4 | 84.4 | 88.9 NM_001076780.1 |
| 80.7 | 84.2 | 76 | 75.1 NM_052892.2 |
| 88.9 | 93.6 | 86.5 | 82 NM_001076780.1 |
| 90.5 | 87.4 | 89.1 | 89.9 NM_182740.1 |
| 84.7 | 81.3 | 86.1 | 81.7 NM_181536.1 |
| 237.7 | 203.3 | 165 | 230.7 NM_000297.2 |
| 100 | 88.3 | 88.4 | 102.9 NM_016112.2 |
| 92.7 | 89.4 | 87.5 | 90.3 NM_014386.1 |
| 88.6 | 87.2 | 76 | 85.5 NM_006071.1 |
| 81.7 | 80.8 | 85.3 | 82.8 NM_170724.1 |
| 90.7 | 86.7 | 74.3 | 87 NM_170724.1 |
| 99.4 | 104.1 | 99.1 | 107.5 NM_138694.2 |
| 93.5 | 96 | 89.2 | 81.2 NM_177531.3 |
| 133.1 | 89.7 | 95.4 | 95.1 NM_181839.1 |
| 89.6 | 84.9 | 92.4 | 89.2 NM_006823.2 |
| 107.7 | 99.8 | 78.5 | 96 NM_006823.2 |
| 89.9 | 93.7 | 94.3 | 114.3 NM_181794.1 |
| 913.8 | 883 | 826.9 | 543.2 NM_032471.4 |
| 101.8 | 86.7 | 88.7 | 86.7 NM_181805.1 |
| 94.6 | 92.8 | 91.9 | 85.4 NM_007066.3 |
| 81.1 | 91.8 | 91.8 | 88.8 NM_181804.1 |
| 91.6 | 91.3 | 85.1 | 78.5 NM_181871.1 |

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| 80.5 | 80.7 | 76.4 | 85.1 NM_000298.4 |
| 99 | 92.1 | 85.6 | 94.5 NM_181871.1 |
| 91.4 | 90.7 | 85.2 | 89.4 NM_000298.4 |
| 1560.6 | 1481.1 | 1208.5 | 1371.7 NM_182471.1 |
| 383.2 | 442.2 | 341.9 | 378.7 NM_182470.1 |
| 373.3 | 614 | 492.1 | 489.3 NM_002654.3 |
| 177.4 | 111.9 | 133.4 | 125.5 NM_182687.1 |
| 84.7 | 80.1 | 79.6 | 86.2 NM_213560.1 |
| 129.4 | 97.8 | 110.1 | 108 NM_213560.1 |
| 141.9 | 118.4 | 112.4 | 120.7 NM_213560.1 |
| 90 | 99.2 | 102.7 | 79.2 NM_002741.3 |
| 106.7 | 122.7 | 104.1 | 115.6 NM_006256.1 |
| 244 | 146.3 | 150.7 | 132.8 NM_013355.3 |
| 134 | 117.5 | 132.7 | 103.2 NM_197976.1 |
| 117.5 | 95.6 | 98.3 | 104.2 NM_004571.3 |
| 93.4 | 90 | 96.6 | 89.4 NM_022062.1 |
| 101.6 | 101.2 | 102.4 | 99.9 NM_000299.2 |
| 85.3 | 94 | 87.7 | 86 NM_001005337.1 |
| 101.5 | 104.7 | 109.6 | 116.4 NM_001005242.1 |
| 92 | 94.3 | 80.1 | 84.4 NM_007183.2 |
| 117.4 | 143.8 | 126.6 | 117.2 NM_003628.3 |
| 910.8 | 819 | 692.3 | 442.5 NM_003628.3 |
| 104.2 | 92.7 | 84.4 | 92.3 NM_015900.1 |
| 101.4 | 99.2 | 98.4 | 106.1 NM_003561.1 |
| 98.2 | 88.7 | 78.9 | 83.9 NM_030821.3 |
| 91.9 | 101.1 | 105.1 | 98.6 NM_032562.2 |
| 83 | 86.7 | 80.2 | 79.5 NM_000928.2 |
| 93.6 | 82.9 | 81.6 | 83.3 NM_000300.2 |
| 145.2 | 207.3 | 281.1 | 205.7 NM_012400.2 |
| 88.3 | 88.1 | 83.3 | 88.8 NM_014589.1 |
| 95.7 | 81.5 | 84.7 | 83.6 NM_022819.2 |
| 94.1 | 84.5 | 82.9 | 98.9 NM_015715.2 |
| 138.9 | 132.7 | 113.3 | 127.5 NM_024420.1 |
| 451.9 | 543.3 | 581.3 | 343.3 NM_005090.1 |
| 173.5 | 121.2 | 137 | 124.4 NM_003706.1 |
| 92.5 | 91.1 | 84.8 | 92.8 NM_178034.3 |
| 87.5 | 90.9 | 87.2 | 80.2 NM_001080490.1 |
| 90.3 | 92.3 | 79.9 | 81.5 NM_213600.2 |
| 86.7 | 82.8 | 89.3 | 88.4 NM_000929.1 |
| 112.9 | 103.1 | 101.3 | 94.2 NM_003560.2 |
| 102.1 | 89.6 | 76.2 | 85 NM_003560.2 |
| 107.8 | 662.8 | 428.8 | 558.8 NM_005084.2 |
| 94.8 | 88.2 | 81.8 | 87.2 NM_001007267.1 |
| 93.3 | 94.3 | 85.3 | 87 NM_007366.3 |
| 107.1 | 106.9 | 111.2 | 100.3 NM_004253.2 |
| 96.7 | 109.2 | 97.8 | 98.5 NM_001031689.1 |
| 109.8 | 95.8 | 100.3 | 89.5 NM_001031689.1 |
| 85.4 | 92.5 | 88.3 | 86.5 NM_021796.3 |
| 114.9 | 90.7 | 94.6 | 97.5 NM_153375.1 |
| 94.6 | 91.6 | 92.4 | 90.2 NM_182832.1 |

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| 5694.2 | 5244.9 | 5008.3 | 4227.8 | NM_016619.1 |
| 124.4 | 116.2 | 124.1 | 103.1 | NM_001029869.1 |
| 96.8 | 93.7 | 85.6 | 90.3 | NM_001012973.1 |
| 100.6 | 90.5 | 87.4 | 89.9 | NM_002655.1 |
| 102.2 | 84.5 | 90.4 | 94.1 | NM_002655.1 |
| 189.7 | 303.3 | 280.3 | 296.7 | NM_006718.2 |
| 124 | 125.5 | 122.4 | 133.3 | NM_001080952.1 |
| 558.3 | 481.4 | 430 | 313.8 | NM_002657.2 |
| 86.7 | 76.7 | 75.3 | 82.6 | NM_000930.2 |
| 489 | 385.8 | 326.4 | 235.8 | NM_002658.2 |
| 239.8 | 253.6 | 197.5 | 148.9 | NM_001005376.1 |
| 199.8 | 178.1 | 157.9 | 148.3 | NM_002659.2 |
| 626.2 | 524.3 | 378.1 | 306.2 | NM_001005376.1 |
| 122.6 | 122.4 | 118.7 | 114.9 | NM_153021.3 |
| 109.3 | 106.9 | 96.5 | 102 | NM_182734.1 |
| 92.6 | 91.3 | 78.3 | 101.4 | NM_182734.1 |
| 327.4 | 380.4 | 366.5 | 298.3 | NM_004573.1 |
| 105.2 | 95.4 | 87.4 | 91.6 | NM_000932.1 |
| 96.6 | 108.4 | 108.4 | 91.6 | NM_000933.2 |
| 77.3 | 72.1 | 90 | 82.5 | NM_000933.2 |
| 99.1 | 102.1 | 95 | 91.8 | NM_006225.1 |
| 87.5 | 83 | 83.9 | 82.9 | NM_133373.2 |
| 102.4 | 79.4 | 76.6 | 91.3 | NM_032726.2 |
| 81.6 | 91 | 79.3 | 80.8 | NM_016341.2 |
| 124 | 114.1 | 96.7 | 106.3 | NM_182811.1 |
| 173.8 | 131.2 | 156.1 | 165 | NM_002660.2 |
| 2107.5 | 2006.6 | 2132.2 | 1419.3 | NM_002661.1 |
| 90.3 | 92.7 | 76.3 | 92.7 | NM_014996.1 |
| 109.2 | 102.9 | 95.3 | 99.9 | NM_014638.2 |
| 97.5 | 90.8 | 89.7 | 81.7 | NM_006226.1 |
| 266.2 | 263.5 | 225.3 | 193.1 | NM_015184.2 |
| 712.9 | 898.3 | 847.3 | 750.6 | NM_018390.1 |
| 91.3 | 77.9 | 74.5 | 88.7 | NM_153268.1 |
| 95 | 81.4 | 83.7 | 85.4 | NM_001005473.1 |
| 87.8 | 85.9 | 88.1 | 87.3 | NM_033123.2 |
| 109.7 | 141.7 | 142.7 | 132.9 | NM_002662.2 |
| 100 | 105.1 | 101.2 | 106.4 | NM_002663.2 |
| 94.2 | 97.8 | 81.8 | 89.5 | NM_001031696.1 |
| 810.2 | 2665.6 | 2611.8 | 1249 | NM_001031696.1 |
| 103.4 | 97.3 | 106.1 | 93.7 | NM_012268.1 |
| 114.2 | 127.6 | 131.6 | 115.7 | NM_138790.1 |
| 79.6 | 78.9 | 71.8 | 89.9 | NM_152666.1 |
| 860.4 | 833.1 | 969.8 | 925.8 | NM_012388.2 |
| 186.6 | 219.6 | 186.1 | 171.1 | NM_201384.1 |
| 87.2 | 88.6 | 82.5 | 89.4 | NM_201378.1 |
| 102.2 | 91.8 | 93.6 | 86 | NM_201380.2 |
| 91.7 | 88 | 82 | 89.6 | NM_201381.1 |
| 98.2 | 98.1 | 88.3 | 101.5 | NM_201379.1 |
| 97.2 | 87.8 | 84.8 | 89.3 | NM_201382.1 |
| 86.4 | 85.5 | 89 | 89.5 | NM_201383.1 |

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| 95.9 | 92.8 | 86 | 100.9 NM_000445.2 |
| 2107.6 | 2634.1 | 2735.5 | 1066.1 NM_002664.1 |
| 101.6 | 91.2 | 78.1 | 83.9 NM_016445.1 |
| 96.5 | 87.1 | 92.7 | 84 NM_021622.3 |
| 97.3 | 87.9 | 96.7 | 97.2 NM_001001974.1 |
| 202.7 | 206.3 | 191.2 | 181 NM_019091.3 |
| 120.5 | 100.3 | 100.8 | 103.8 NM_020904.1 |
| 102.9 | 99.2 | 109.6 | 88 NM_019012.2 |
| 91.1 | 94 | 87.7 | 87.2 NM_014935.2 |
| 88.8 | 103.4 | 111.1 | 96.9 NM_175058.3 |
| 88.1 | 78 | 85.5 | 81.9 NM_032639.2 |
| 301.1 | 360 | 297.1 | 238.1 NM_015899.1 |
| 112.1 | 102.1 | 112 | 96.9 NM_021200.1 |
| 340.5 | 290.6 | 327.4 | 262.2 NM_017958.1 |
| 1093.4 | 717.5 | 717.8 | 479.6 NM_001031706.1 |
| 90.6 | 86.8 | 85.3 | 90.7 NM_001031706.1 |
| 105.5 | 96.9 | 85.2 | 95.3 NM_006832.1 |
| 266.5 | 148.4 | 159.5 | 110.6 NM_024310.2 |
| 180.7 | 131.2 | 137.4 | 108 NM_024613.2 |
| 88.1 | 85 | 87.7 | 85.4 NM_001029884.1 |
| 145.7 | 113.2 | 98.8 | 109 NM_022835.1 |
| 220.3 | 218.8 | 232.6 | 166 NM_015549.1 |
| 169.9 | 137 | 138.9 | 109.6 NM_015432.2 |
| 95.2 | 89.8 | 93 | 94.7 NM_001042664.1 |
| 78.8 | 85.1 | 81.7 | 80.4 NM_001042663.1 |
| 86.8 | 88.1 | 74.6 | 76.2 NM_020631.2 |
| 96.2 | 77.3 | 89.3 | 85.4 NM_198681.1 |
| 105.4 | 87.3 | 89.8 | 93.9 NM_020631.2 |
| 91 | 90.7 | 81.7 | 86.9 NM_018173.1 |
| 92.6 | 104.7 | 101.5 | 118.4 NM_020715.1 |
| 93.7 | 86.9 | 80.3 | 94.8 NM_172069.1 |
| 132.7 | 119.8 | 119 | 109.9 NM_024927.3 |
| 166 | 151.4 | 143.3 | 137.5 NM_018049.1 |
| 197.5 | 209.3 | 201.4 | 138 NM_014798.1 |
| 120.4 | 102.4 | 112.5 | 112.5 NM_032129.1 |
| 158.2 | 217.2 | 203.3 | 144.8 NM_016274.3 |
| 156.6 | 136.9 | 129.6 | 121.5 NM_025201.3 |
| 88.8 | 90.5 | 84.7 | 84.9 NM_000301.1 |
| 126.9 | 135.1 | 127.8 | 137.8 NM_001032392.2 |
| 88.7 | 83 | 77.8 | 96 NM_002666.3 |
| 475 | 210.4 | 180.9 | 173.8 NM_005030.3 |
| 87.4 | 84.1 | 81 | 89.2 NM_006622.1 |
| 80.9 | 82 | 75.2 | 78.4 NM_004073.2 |
| 1295.5 | 882.3 | 701.6 | 714.2 NM_014264.2 |
| 92.6 | 103 | 96.6 | 91.8 NM_002667.2 |
| 658.3 | 1007.6 | 1039.6 | 546.8 NM_000302.2 |
| 99.6 | 89 | 90.1 | 77.5 NM_182943.2 |
| 101.3 | 95.9 | 91.8 | 102 NM_000935.2 |
| 337 | 191.9 | 179.9 | 186.2 NM_182943.2 |
| 2888.1 | 1870.3 | 1664.4 | 1242.7 NM_001084.4 |

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| 87.6 | 88.3 | 85.2 | 88.4 NM_000533.3 |
| 90.4 | 83.4 | 77.7 | 92.1 NM_199478.1 |
| 96.3 | 84.3 | 81.5 | 91 NM_000533.3 |
| 146.4 | 123.3 | 123.7 | 113.8 NM_002668.1 |
| 975.7 | 740.2 | 522.5 | 508.9 NM_002669.2 |
| 110 | 105.3 | 97 | 109 NM_002670.1 |
| 491 | 313.8 | 271.8 | 342 NM_005032.3 |
| 149.2 | 137.3 | 142.1 | 119.2 NM_021105.1 |
| 96.4 | 92.4 | 94.4 | 95 NM_020359.1 |
| 609.4 | 612.1 | 617.2 | 294.1 NM_020360.2 |
| 99.2 | 124.2 | 111.2 | 112.5 NM_020353.1 |
| 160.9 | 176.1 | 137.7 | 140.5 NM_006227.2 |
| 424.2 | 547.7 | 450 | 391.8 NM_006227.2 |
| 79.2 | 80.5 | 70.6 | 84 NM_016583.2 |
| 87.8 | 79.1 | 92.6 | 94.9 NM_031310.1 |
| 106.4 | 100.6 | 102.1 | 96.4 NM_020405.3 |
| 118.4 | 116.2 | 103.3 | 105.7 NM_032812.7 |
| 185.7 | 151.8 | 135.1 | 121.6 NM_032242.2 |
| 100 | 88.2 | 97.6 | 89 NM_025179.2 |
| 159.8 | 174.8 | 170.5 | 126.6 NM_017514.2 |
| 77 | 84.9 | 77.9 | 77.8 NM_181775.2 |
| 129.8 | 126.6 | 127.7 | 109.2 NM_002673.3 |
| 88.7 | 92.5 | 85.4 | 90.8 NM_005393.1 |
| 102.5 | 105.5 | 104.1 | 106.4 NM_005761.1 |
| 78.7 | 83.2 | 82.6 | 84.2 NM_015103.1 |
| 256.4 | 236.2 | 224.7 | 214.6 NM_021127.1 |
| 103.8 | 90.6 | 91.6 | 95.4 NM_002674.2 |
| 108 | 96.3 | 86.3 | 96.8 NM_031887.2 |
| 96.8 | 95.6 | 82.6 | 97.3 NM_031293.1 |
| 91.6 | 88.7 | 92.7 | 87.6 NM_033246.2 |
| 99.9 | 96.6 | 93.3 | 101.9 NM_033238.2 |
| 104.8 | 94 | 96.4 | 102.6 NM_033246.2 |
| 97.9 | 108.4 | 83.6 | 102.4 XM_945882.1 |
| 100.4 | 96 | 95.9 | 89.7 NM_033240.2 |
| 930.4 | 774.4 | 888.1 | 497.4 NM_002676.1 |
| 398.9 | 241.5 | 208.5 | 150.3 NM_000303.1 |
| 96.6 | 87.2 | 77.4 | 89.1 NM_002677.3 |
| 91.6 | 88.4 | 85.8 | 89.6 NM_153321.1 |
| 100.6 | 90.8 | 90.4 | 97.1 NM_000304.2 |
| 130.3 | 127.2 | 150.2 | 118.9 NM_153322.1 |
| 102.7 | 92.7 | 86.7 | 90.1 NM_001013743.1 |
| 1009.4 | 780.7 | 805.2 | 499.9 NM_015160.1 |
| 1258.1 | 1062.7 | 1020.7 | 732.2 NM_004279.1 |
| 136 | 120.4 | 117.7 | 120 NM_000534.3 |
| 212.6 | 193.7 | 175.4 | 181.1 NM_001018040.1 |
| 120.1 | 118.9 | 108.4 | 126.3 NM_000535.4 |
| 117.4 | 142.4 | 133.1 | 100.8 NR_002217.1 |
| 93.1 | 85.9 | 77.8 | 79.4 NR_002217.1 |
| 86.8 | 94.5 | 99.3 | 95.2 NM_002679.1 |
| 191.4 | 231.9 | 196.4 | 192.7 NM_001003686.1 |

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| 225.5 | 192.5 | 169.3 | 144.6 NM_174930.2 |
| 202.2 | 174.2 | 187.5 | 122 NM_006556.2 |
| 108.3 | 216 | 217 | 173.6 NM_198452.1 |
| 268.4 | 350.4 | 292.6 | 335.2 NM_022572.2 |
| 106.8 | 103.8 | 103.5 | 90.9 NM_022572.2 |
| 156.9 | 171 | 157.5 | 137.8 NM_015488.3 |
| 628.7 | 452.1 | 429.9 | 341.3 NM_007254.2 |
| 78.2 | 85.7 | 83.5 | 85.8 NM_173516.1 |
| 97.5 | 102.6 | 86.8 | 88 NM_000936.2 |
| 86.4 | 85.2 | 92.1 | 86.4 NM_006229.1 |
| 74.4 | 76 | 78.7 | 86.5 NM_005396.3 |
| 85.1 | 84.1 | 77.5 | 88.2 NM_001011709.1 |
| 151.1 | 127.4 | 123.2 | 118.7 NM_006029.4 |
| 130.7 | 326.4 | 408 | 316.3 NM_007257.4 |
| 190.7 | 119.1 | 121 | 90.3 NM_013364.2 |
| 82 | 89.5 | 84.4 | 81.2 NM_052926.1 |
| 96.1 | 94.9 | 104 | 92.5 NM_032882.2 |
| 99.4 | 81.4 | 89.1 | 97.5 NM_002686.2 |
| 1311.5 | 940.4 | 891.9 | 1096.3 NM_002687.2 |
| 122.7 | 78.2 | 89.8 | 89.2 NM_006228.2 |
| 144.3 | 116.9 | 111.2 | 120 NM_001039725.1 |
| 122.1 | 105.5 | 96 | 109.9 NM_173676.1 |
| 175.7 | 160.6 | 151.2 | 170 NM_020376.2 |
| 86.5 | 95.1 | 94 | 94.6 NM_004650.1 |
| 83.9 | 80.7 | 75.5 | 74.7 NM_138814.2 |
| 104.2 | 105 | 114.8 | 124.3 NM_015723.2 |
| 1021.2 | 753 | 797 | 435.3 NM_018129.1 |
| 3232.6 | 5539.2 | 8355 | 4886 NM_033109.2 |
| 96.6 | 92.6 | 93.2 | 101.1 NM_006813.1 |
| 1645.1 | 1535.2 | 1405.6 | 1057.8 NM_017761.2 |
| 88.1 | 98.3 | 88 | 94.2 NM_153703.3 |
| 136.6 | 137.7 | 122.9 | 105.2 NM_001018111.1 |
| 89.8 | 88.9 | 83.7 | 90.9 NM_001018111.1 |
| 103.8 | 102 | 100.2 | 91 NM_005397.2 |
| 243.5 | 312.8 | 262.9 | 252.1 NM_015720.1 |
| 81.9 | 83.9 | 71.1 | 82 NM_024921.2 |
| 1552 | 1883.5 | 2560.5 | 1519.9 NM_015352.1 |
| 102 | 101.6 | 103.2 | 95.9 NM_172236.1 |
| 78.7 | 82.1 | 92.5 | 86.8 NM_172236.1 |
| 276.4 | 361 | 330.5 | 242.8 NM_133635.4 |
| 127.1 | 140.1 | 126.9 | 123.7 NM_015227.3 |
| 297.9 | 312.3 | 282.6 | 266.1 NM_133635.4 |
| 2100.8 | 1501.6 | 1126.7 | 802 NM_017542.3 |
| 189.2 | 200.2 | 229.5 | 225.1 NM_145796.2 |
| 108.8 | 108 | 98.9 | 104.2 NM_145796.2 |
| 109 | 109.9 | 126.2 | 104.9 NM_207171.1 |
| 125.3 | 116.4 | 115.6 | 99.6 NM_001039503.2 |
| 250 | 291.5 | 257.2 | 193.8 NM_016937.2 |
| 933.5 | 803.9 | 761.4 | 434.8 NM_002689.2 |
| 668.5 | 469.4 | 509 | 328.3 NM_002690.1 |

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| 401.3 | 316.6 | 267.1 | 284.9 | NM_002691.1 |
| 98.4 | 97.2 | 88.7 | 100.9 | NM_006591.1 |
| 149.4 | 190.9 | 158.3 | 149.4 | NM_021173.2 |
| 295.2 | 278.3 | 253.3 | 185.3 | NM_015584.2 |
| 981.9 | 569.1 | 514.6 | 395 | NM_032311.3 |
| 145.2 | 214.5 | 197.1 | 173.8 | NM_032311.3 |
| 323.6 | 300.5 | 255.7 | 252.9 | NM_006231.2 |
| 963.1 | 407.5 | 374.3 | 305.2 | NM_002692.2 |
| 5984.6 | 2995.8 | 2915.3 | 1935.7 | NM_017443.3 |
| 4469.4 | 3819.9 | 3374 | 2266.3 | NM_019896.2 |
| 322 | 403 | 349.7 | 311.3 | NM_002693.1 |
| 125.5 | 116.4 | 113.3 | 114.2 | NM_007215.2 |
| 98.1 | 92.7 | 83.3 | 88.1 | NM_006502.1 |
| 83.3 | 80.1 | 77.2 | 85.6 | NM_007195.1 |
| 84.7 | 84.2 | 76.6 | 79.6 | NM_016218.1 |
| 99.8 | 93.9 | 89.5 | 98.3 | NM_013274.2 |
| 278.6 | 218.5 | 218.3 | 210.3 | NM_013284.1 |
| 95 | 88.4 | 86.4 | 93.3 | NM_181808.1 |
| 903.8 | 979.6 | 907.8 | 723.2 | NM_199420.2 |
| 88 | 86.4 | 94.1 | 92.3 | NM_015425.1 |
| 102.6 | 98.6 | 90.1 | 94.9 | NM_019014.3 |
| 1147.1 | 768.4 | 581.4 | 454.7 | NM_203290.1 |
| 819.1 | 545.7 | 385.4 | 419.1 | NM_004875.2 |
| 3996.7 | 3370 | 2992.7 | 2235.4 | NM_015972.1 |
| 1189.6 | 746.6 | 700.8 | 405.9 | NM_022490.1 |
| 938.2 | 1163 | 970.5 | 762.4 | NM_000937.2 |
| 691.9 | 389.9 | 340.8 | 355.2 | NM_000938.1 |
| 152.7 | 136 | 137.8 | 112.7 | NM_002694.2 |
| 1196.4 | 920 | 815.2 | 524.5 | NM_032940.1 |
| 1011.8 | 664.2 | 513.4 | 496.8 | NM_004805.2 |
| 4036.9 | 3383.2 | 2972.9 | 1758.4 | NM_021974.2 |
| 1483.7 | 910.2 | 824 | 793.4 | NM_002696.1 |
| 1125.5 | 786.3 | 843.9 | 487.6 | NM_006232.2 |
| 1054 | 518.5 | 427.6 | 409.9 | NM_006233.4 |
| 222.9 | 156.2 | 162.4 | 156.7 | NM_006234.4 |
| 99 | 90.3 | 96.5 | 95.9 | NM_145325.2 |
| 103.1 | 97.2 | 93.8 | 92.4 | NM_032958.3 |
| 459.8 | 399.5 | 408.4 | 347.3 | NM_001015884.1 |
| 134 | 125.2 | 105.7 | 101.1 | NM_005034.3 |
| 188 | 137.2 | 138.1 | 128.7 | NM_021128.3 |
| 337.9 | 294 | 254.5 | 209.4 | NM_007055.2 |
| 305.8 | 298.1 | 228.8 | 252.5 | NM_018082.3 |
| 1605.1 | 1086.7 | 948.8 | 752.9 | NM_006468.5 |
| 145.8 | 126.3 | 112 | 100 | NM_001722.2 |
| 108.5 | 96.2 | 96.7 | 93.6 | NM_006466.2 |
| 110.9 | 96.5 | 90.9 | 91.4 | NM_006467.2 |
| 1300.4 | 1147.1 | 1145.1 | 803.9 | NM_032305.1 |
| 589.7 | 317.3 | 323.5 | 182.4 | NM_138338.2 |
| 95.5 | 83.6 | 78.4 | 83.8 | NM_001018050.1 |
| 96.6 | 90.9 | 84.1 | 83.1 | NM_001018051.1 |

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| 630 | 385.5 | 321.7 | 304.2 NM_016310.2 |
| 477.1 | 385.7 | 268.8 | 266.3 NM_005035.2 |
| 310.1 | 299.3 | 314.7 | 253.6 NM_006999.3 |
| 89.9 | 130.9 | 114.9 | 132.8 NM_172020.1 |
| 106.5 | 120.4 | 107.9 | 106.6 NM_001035256.1 |
| 97.6 | 87.5 | 89.5 | 79.3 NM_000939.1 |
| 277.9 | 276.9 | 322.2 | 197 NM_017739.1 |
| 86 | 80.8 | 80.5 | 90.4 NM_015932.2 |
| 104.9 | 98 | 106 | 89.4 NM_007171.3 |
| 257 | 202.3 | 231.8 | 204.1 NM_007171.3 |
| 134.1 | 143.5 | 124.6 | 135 NM_013382.3 |
| 102.1 | 99.5 | 87.8 | 106.9 NM_012230.2 |
| 86.7 | 75.9 | 78.3 | 77.2 NM_000446.3 |
| 710.2 | 546 | 529.1 | 576.5 NM_000305.2 |
| 100.9 | 97.1 | 97.3 | 102.5 NM_000940.1 |
| 424.2 | 214.6 | 205.8 | 172.9 NM_015029.1 |
| 164.3 | 128.1 | 116.1 | 128.5 NM_006627.1 |
| 408.4 | 423.1 | 437.2 | 309.3 NM_015918.3 |
| 518.9 | 377.1 | 304.7 | 274.4 NM_005837.1 |
| 91.8 | 86.5 | 83.3 | 93.1 NM_022135.2 |
| 97.3 | 101.7 | 102.7 | 94.7 NM_022361.3 |
| 238.2 | 243.5 | 211.2 | 196.3 NM_000941.1 |
| 96.7 | 98.9 | 93.4 | 95 NM_022825.2 |
| 94.3 | 96.7 | 81.8 | 78.8 NM_203474.1 |
| 84.8 | 92.3 | 89.7 | 91.7 NM_006475.1 |
| 89.7 | 82.9 | 90.9 | 93 NM_015450.1 |
| 183.4 | 176.3 | 137.4 | 148.4 NR_003104.1 |
| 91.4 | 91.2 | 89.2 | 94.4 NR_003102.1 |
| 95.9 | 91.1 | 98 | 83.7 NM_207355.2 |
| 86.1 | 80.4 | 86.3 | 83.4 NM_001005364.1 |
| 90.6 | 87.2 | 93.2 | 98.7 NM_001005365.2 |
| 84.9 | 82.6 | 83.7 | 85.8 NM_000306.1 |
| 96 | 101.6 | 79.2 | 80.1 NM_006235.1 |
| 107.8 | 156.1 | 144.6 | 123.2 NM_002697.2 |
| 89.3 | 80.6 | 72.6 | 89.4 NM_002698.1 |
| 104.2 | 94.8 | 93.5 | 92 NM_014352.1 |
| 88.1 | 86 | 84 | 90.5 NM_002699.3 |
| 89.1 | 90.7 | 88.5 | 89.6 NM_005604.2 |
| 81.3 | 89.9 | 86.9 | 83 NM_006236.1 |
| 90.4 | 92.9 | 82.6 | 88.8 NM_000307.1 |
| 121.5 | 106.8 | 98.2 | 103.2 NM_006237.2 |
| 102.2 | 227.2 | 175.5 | 179.3 NM_004575.1 |
| 99.5 | 97.5 | 90.3 | 86 NM_002700.1 |
| 97.3 | 87.6 | 82.7 | 87.4 NM_002701.3 |
| 84.7 | 85.7 | 90.9 | 86.9 NR_002304.1 |
| 89.4 | 98.1 | 94.9 | 90.6 NM_002702.2 |
| 81.1 | 81.7 | 80.9 | 78.9 NM_007252.2 |
| 3259.5 | 3597.3 | 4222.7 | 1784.4 NM_025204.2 |
| 77.9 | 83.2 | 83.4 | 78.5 NM_001080113.1 |
| 6823.9 | 5193.4 | 4968.7 | 3619.4 NM_021129.2 |

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| 1815.2 | 1061.8 | 1064.1 | 787.8 | NM_006903.3 |
| 1585.7 | 2845.5 | 3965.1 | 2311.2 | NM_006903.4 |
| 95.9 | 82.9 | 74 | 86.8 | NM_176869.1 |
| 343 | 254.9 | 221.5 | 181.5 | NM_020230.4 |
| 97.5 | 96.6 | 92.9 | 87.9 | NM_001040664.1 |
| 81.6 | 78.4 | 82.7 | 97.4 | NM_003711.2 |
| 106.1 | 100.6 | 96.6 | 107.3 | NM_176895.1 |
| 104.8 | 112.8 | 107.1 | 94.3 | NM_176895.1 |
| 89 | 90.6 | 78.6 | 86.6 | NM_003713.3 |
| 84.5 | 88.7 | 87.5 | 102.4 | NM_177414.1 |
| 89 | 81.2 | 82 | 81.7 | NM_177543.1 |
| 91.3 | 90 | 94.1 | 99.6 | NM_177543.1 |
| 99.1 | 95 | 91.8 | 91.5 | NM_177526.1 |
| 80.1 | 82 | 78 | 74.9 | NM_001030059.1 |
| 202.4 | 154.1 | 137.9 | 117.7 | NM_032483.2 |
| 277.5 | 239.8 | 191.4 | 270 | NM_203453.2 |
| 189 | 129.6 | 120.7 | 131 | NM_032728.2 |
| 110.3 | 110.3 | 114.4 | 103.9 | NM_001001930.2 |
| 86.5 | 95.8 | 89.1 | 93.4 | NM_001001928.2 |
| 204.7 | 188 | 165.8 | 173.1 | NM_004774.2 |
| 93.8 | 91.2 | 97.9 | 106.3 | NM_177435.1 |
| 133.9 | 168.2 | 170.1 | 165 | NM_006238.2 |
| 82.3 | 95.2 | 87.9 | 95.3 | NM_015869.3 |
| 503.6 | 897.3 | 819.1 | 542.6 | NM_138712.3 |
| 99.6 | 121.7 | 110.5 | 111.7 | NM_138712.3 |
| 83.2 | 80.8 | 75.3 | 84.4 | NM_138711.2 |
| 98.8 | 87.4 | 83.7 | 95.4 | NM_013261.2 |
| 157.7 | 149.7 | 142 | 133.6 | NM_133263.2 |
| 452 | 254.9 | 192.2 | 182 | NM_002703.3 |
| 89.3 | 92.6 | 84.1 | 83.8 | NM_002704.2 |
| 107.5 | 91.4 | 92.9 | 94.9 | NM_021823.3 |
| 1306.8 | 1557.2 | 1603.7 | 1724.1 | NM_001077447.1 |
| 2643.2 | 3451.3 | 2954.4 | 3018.9 | NM_024664.1 |
| 87.1 | 90.3 | 85.5 | 89.9 | NM_006240.2 |
| 104.6 | 104.3 | 92.8 | 81.8 | NM_006240.2 |
| 86.5 | 83.7 | 83.7 | 87.7 | NM_152933.1 |
| 724.4 | 631 | 671.8 | 504.3 | NM_003626.2 |
| 160.4 | 142.5 | 158.3 | 142.1 | NM_177423.1 |
| 188.8 | 166.7 | 160.3 | 156.7 | NM_177423.1 |
| 82.3 | 80 | 84.1 | 85.8 | NM_003625.2 |
| 85 | 93.6 | 87 | 84.4 | NM_003660.2 |
| 140.5 | 138 | 113.7 | 128.3 | NM_015053.1 |
| 93.4 | 102.1 | 86.6 | 91.5 | NM_177444.1 |
| 91.9 | 106.2 | 107.5 | 108.6 | NM_177444.1 |
| 85.3 | 87 | 87.6 | 88.7 | NM_003622.2 |
| 269.5 | 335.2 | 378.1 | 258.8 | NM_003621.1 |
| 424.8 | 420.7 | 448.2 | 404.1 | NM_000308.1 |
| 890.6 | 567.5 | 427.1 | 538.6 | NM_201440.1 |
| 101.1 | 108.4 | 114.7 | 111.5 | NM_201438.1 |
| 103 | 107.1 | 104.1 | 112.7 | NM_016488.5 |

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| 1250.3 | 844.9 | 686 | 517.6 | NM_201440.1 |
| 133.9 | 130.1 | 97.6 | 108.4 | NM_203430.1 |
| 118.4 | 128.8 | 134.7 | 126.6 | NM_000942.4 |
| 1279.4 | 1859.2 | 1744.2 | 1358.8 | NM_000943.4 |
| 97.9 | 74.3 | 91.5 | 82.2 | NM_005038.2 |
| 1478.6 | 1357.5 | 1337.8 | 797.5 | NM_006112.2 |
| 101.3 | 104 | 104.8 | 99.3 | NM_203456.1 |
| 170.1 | 160.1 | 137.1 | 113 | NM_005729.3 |
| 97.1 | 81.1 | 86 | 103.2 | NM_004792.2 |
| 4470.4 | 2449.9 | 2077.8 | 1333.3 | NM_006347.3 |
| 979.9 | 651.1 | 446.3 | 516.1 | NM_016059.3 |
| 87.4 | 93.2 | 84.4 | 94 | NM_014337.2 |
| 86.9 | 108.5 | 102.1 | 104.1 | NM_148175.1 |
| 97.8 | 92.5 | 81.8 | 97.3 | NM_014337.2 |
| 104.5 | 104.5 | 106.5 | 92.2 | NM_131916.1 |
| 88 | 73.3 | 72.3 | 87.3 | NM_032472.3 |
| 2202 | 1702.4 | 1541.4 | 1337.6 | NM_032472.3 |
| 130.4 | 106.1 | 101.7 | 103.9 | NM_130906.1 |
| 83.3 | 80.2 | 85.2 | 85.7 | NM_139126.2 |
| 1829.5 | 827.7 | 731.2 | 621.9 | NM_152329.3 |
| 89.7 | 84.7 | 82.4 | 83.5 | NM_203467.1 |
| 105 | 97.6 | 92.1 | 99.1 | NM_152329.3 |
| 83.6 | 93.6 | 83.5 | 83.5 | NM_173672.1 |
| 88.6 | 86.1 | 77 | 87.8 | NM_002705.3 |
| 79.4 | 88.5 | 83.7 | 83.8 | NM_177952.1 |
| 202.5 | 200.3 | 187.5 | 174.5 | NM_177952.1 |
| 116.1 | 102.6 | 91.9 | 94.9 | NM_177951.1 |
| 119 | 123.4 | 132.4 | 117.8 | NM_177952.1 |
| 105.1 | 86.3 | 86.3 | 88.1 | NM_177969.2 |
| 777.1 | 983 | 879.3 | 868.6 | NM_177968.2 |
| 94.7 | 179.7 | 237.3 | 175.2 | NM_001033556.1 |
| 112.4 | 110.6 | 106.8 | 116.4 | NM_001033556.1 |
| 87 | 89.2 | 91.2 | 86.1 | NM_001033557.1 |
| 233.2 | 188.8 | 187.2 | 170.9 | NM_003620.2 |
| 162 | 141.7 | 136.2 | 124.6 | NM_014906.3 |
| 961.1 | 911.2 | 1012.3 | 378.7 | NM_014634.2 |
| 153.9 | 115.8 | 105.2 | 100.2 | NM_177983.1 |
| 4529.9 | 3919 | 3724.7 | 1989.9 | NM_002707.3 |
| 88.9 | 90.4 | 89.6 | 83 | NM_005167.5 |
| 171 | 202.4 | 256.8 | 208.5 | NM_152542.2 |
| 96.6 | 95 | 81 | 99.7 | NM_139245.2 |
| 256.4 | 227.5 | 196.8 | 150.7 | NM_144641.1 |
| 92.3 | 101.4 | 83.3 | 97.4 | NM_018444.2 |
| 274.3 | 237 | 186.2 | 179.7 | NM_016147.1 |
| 260.5 | 194.2 | 187.2 | 140.9 | NM_000309.2 |
| 329.3 | 235.1 | 218.7 | 173.9 | NM_002708.3 |
| 500.7 | 555.7 | 465.2 | 386.2 | NM_206876.1 |
| 3342.9 | 3139.8 | 2769.2 | 1954.5 | NM_002710.1 |
| 221.4 | 188.1 | 179 | 213.9 | NM_002714.2 |
| 932.1 | 750.8 | 691.9 | 429.7 | NM_021959.1 |

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| 115.8 | 124.4 | 112.9 | 161.8 NM_002480.1 |
| 179 | 163 | 139.5 | 147 NM_032103.1 |
| 119.4 | 103.2 | 103.8 | 122 NM_017607.1 |
| 182.6 | 163.5 | 162.5 | 113.8 NM_015316.1 |
| 102.2 | 92.8 | 93.1 | 99 NM_006663.2 |
| 127.2 | 113.1 | 121.6 | 104.9 NM_033256.1 |
| 3008.2 | 2260.7 | 1829.4 | 1407.3 NM_138689.2 |
| 174.8 | 168.6 | 169.5 | 154.4 NM_030949.1 |
| 99.8 | 103.8 | 91.5 | 104.7 NM_017726.6 |
| 869.7 | 751.1 | 736.7 | 465.8 NM_014330.2 |
| 100.2 | 87.9 | 80.2 | 93.3 NM_032833.2 |
| 177.9 | 137.5 | 155.4 | 108.7 NM_032902.5 |
| 117.8 | 114.3 | 115 | 116.7 NM_015568.2 |
| 94.5 | 93 | 93.7 | 94 NM_006741.2 |
| 93 | 91.9 | 75 | 86.5 NM_032192.2 |
| 93 | 98.9 | 90.7 | 88.3 NM_181505.1 |
| 105.4 | 105.9 | 103.9 | 93.2 NM_181505.1 |
| 89.7 | 77.9 | 83.4 | 85.6 XM_945023.1 |
| 250.9 | 248 | 224 | 172.8 NM_006241.3 |
| 95.4 | 92 | 92 | 96.4 NR_002168.1 |
| 91.7 | 84.8 | 86.9 | 90.2 NR_002191.2 |
| 93.6 | 90 | 91.4 | 93.6 NM_002711.2 |
| 98 | 81.8 | 84.4 | 84 NM_024607.1 |
| 112.4 | 107.8 | 117.1 | 98.3 NM_005398.3 |
| 215 | 207.5 | 165.5 | 145.7 NM_006242.3 |
| 98.7 | 115.2 | 113.9 | 97.6 NM_033215.3 |
| 538.6 | 475.3 | 478.3 | 451 NM_002712.1 |
| 359.5 | 250.6 | 201 | 188.8 NM_014110.3 |
| 142.7 | 104.3 | 97.1 | 90.3 NM_014110.3 |
| 83.5 | 82.2 | 88.2 | 87.7 NM_002713.2 |
| 105.5 | 100.9 | 104.7 | 101.8 XM_934519.1 |
| 101.2 | 121 | 106.2 | 127.4 NM_032595.1 |
| 1872.7 | 1421.4 | 1203.5 | 901.6 NM_002715.2 |
| 154.4 | 138.1 | 153.8 | 134.1 NM_001009552.1 |
| 181.7 | 136.1 | 123.1 | 137.6 NM_004156.2 |
| 2271.4 | 1629.7 | 1199.4 | 1110.8 NM_014225.3 |
| 98.5 | 105.3 | 97 | 93.7 NM_002716.3 |
| 103.2 | 94.9 | 87.5 | 94.1 NM_181699.1 |
| 251.2 | 147.1 | 133.7 | 142.8 NM_181699.1 |
| 1644.9 | 1202.7 | 904.7 | 915.1 NM_002717.2 |
| 206.2 | 219.7 | 235.2 | 195.2 NM_181677.1 |
| 80.9 | 83.3 | 77.5 | 87.7 NM_181676.1 |
| 103.4 | 94.5 | 84.3 | 92.9 NM_181678.1 |
| 95.9 | 86.2 | 96 | 88 NM_181674.1 |
| 131.1 | 120.2 | 106.6 | 116 NM_181676.1 |
| 75 | 77.3 | 72.5 | 86.1 NM_004576.2 |
| 88.8 | 80.6 | 82.7 | 86.8 NM_181876.2 |
| 100.7 | 97.5 | 104.9 | 93.6 NM_181876.2 |
| 76.8 | 78.9 | 78.5 | 84.2 NM_181876.2 |
| 97.9 | 81.9 | 90 | 92.6 NM_020416.2 |

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| 129.6 | 118.8 | 116.7 | 105.8 NM_018461.2 |
| 103.6 | 100.7 | 102.5 | 98.2 NM_001003656.1 |
| 398.3 | 319.4 | 295.9 | 233.4 NM_018461.2 |
| 96.5 | 91.7 | 100.4 | 97.4 NM_181897.1 |
| 87.5 | 91.1 | 91.4 | 95.1 NM_002718.3 |
| 125.7 | 113.1 | 99 | 107.4 NM_002718.3 |
| 101.6 | 115.6 | 101.4 | 108 NM_013239.3 |
| 108.7 | 133.8 | 115.3 | 126.2 NM_199326.1 |
| 97.1 | 122.5 | 110.5 | 145.6 NM_199326.1 |
| 847.6 | 483 | 510.2 | 410.8 NM_017917.2 |
| 94.3 | 98.6 | 97.2 | 94.5 NM_178001.1 |
| 88.3 | 86.4 | 78.5 | 86.8 NM_178003.1 |
| 109.1 | 98.7 | 89.1 | 101.6 NM_021131.3 |
| 754.8 | 442.5 | 398.2 | 273.2 NM_178000.1 |
| 607.4 | 542 | 450.7 | 393.5 NM_006243.2 |
| 100.8 | 133.8 | 112.7 | 109.8 NM_006244.2 |
| 1691.8 | 973.1 | 756.3 | 704.7 NM_178588.1 |
| 119.7 | 110.9 | 103 | 97.1 NM_002719.2 |
| 98.9 | 95 | 93.7 | 94.9 NM_178587.1 |
| 117.3 | 125.6 | 135 | 125.1 NM_006245.2 |
| 189.4 | 175.3 | 165.1 | 147.1 NM_180977.1 |
| 386.6 | 277.2 | 242.1 | 262 NM_180976.1 |
| 1326.5 | 1147 | 910.3 | 779.7 NM_006246.2 |
| 141.5 | 136.2 | 117.3 | 171.4 NM_000944.2 |
| 952.4 | 656 | 529.5 | 467.9 NM_021132.1 |
| 304 | 227.6 | 211.1 | 169.7 NM_005605.3 |
| 1304.5 | 925.2 | 722 | 655.9 NM_000945.3 |
| 95.3 | 92.4 | 86.7 | 91.1 NM_147180.2 |
| 469 | 404.5 | 400.8 | 348 NM_005134.1 |
| 348.9 | 296 | 321.7 | 290.2 NM_005134.1 |
| 81.7 | 85.1 | 82.7 | 85.9 NM_018498.2 |
| 107.8 | 79.6 | 93 | 95.7 NM_174907.1 |
| 75.8 | 92.6 | 86.3 | 90.2 NM_006247.2 |
| 2792.2 | 1964.8 | 1647.7 | 1117.7 NM_002721.3 |
| 486.3 | 326.8 | 275.7 | 211.7 NM_015062.3 |
| 14052.9 | 12067.7 | 12559.5 | 13805.5 NM_000310.2 |
| 92.9 | 76.9 | 83.7 | 87.4 NM_138717.1 |
| 96.5 | 96.7 | 89.4 | 89.9 NM_138717.1 |
| 497.3 | 530.1 | 422 | 423.2 NM_015342.1 |
| 83.3 | 75.8 | 83.4 | 90.4 NM_002722.2 |
| 91.9 | 84.1 | 81.4 | 75.6 NR_002181.1 |
| 80.4 | 82.5 | 81.8 | 89.9 NM_005972.3 |
| 139.6 | 143.6 | 150.2 | 115.6 NM_001032385.1 |
| 590.9 | 630.5 | 662.4 | 457.8 NM_001032382.1 |
| 108.1 | 97.9 | 119.3 | 105.6 NM_005710.2 |
| 2381.3 | 2329 | 2093.5 | 1173.6 NM_025078.3 |
| 108.8 | 113.8 | 95.9 | 95.8 NM_001040125.1 |
| 88.4 | 87.2 | 88.1 | 92.9 NM_001040125.1 |
| 837.6 | 913.6 | 805.9 | 864.7 NM_152391.2 |
| 88.5 | 89.7 | 86.9 | 87 NM_032391.2 |

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|--------|--------|--------|----------------------|
| 100 | 99.8 | 87 | 86.4 NM_007213.1 |
| 167.5 | 244.5 | 223.1 | 154.3 NM_032152.3 |
| 106.6 | 99 | 83.9 | 112.9 NM_206953.1 |
| 396.4 | 342.8 | 351.9 | 256.7 NM_206955.1 |
| 552.3 | 510.5 | 408.5 | 406 NM_206956.1 |
| 96.4 | 85.5 | 80.7 | 93.1 NM_023013.1 |
| 108.5 | 111 | 101.3 | 95.4 NM_001039361.1 |
| 79.9 | 80.8 | 76.4 | 82.6 NM_001039361.1 |
| 87.8 | 82.3 | 84.7 | 84.9 XM_496342.2 |
| 95.9 | 95.5 | 95.4 | 94.5 NM_001045480.1 |
| 89.8 | 82.6 | 84.1 | 80.2 NM_001009611.1 |
| 146.3 | 134.3 | 115.4 | 128.5 NM_001013407.1 |
| 101.3 | 96.4 | 96.4 | 95.1 NM_001010889.2 |
| 102.3 | 91.6 | 92.9 | 96.9 NM_001012277.1 |
| 100.7 | 96.2 | 93.2 | 85.3 NM_001012276.1 |
| 89.6 | 83.5 | 66.9 | 85.1 NM_001010890.1 |
| 86.6 | 91.3 | 92.3 | 95.2 NM_145202.3 |
| 103.5 | 89 | 90.7 | 90 NM_199354.1 |
| 111.2 | 112.2 | 109.2 | 111.4 NM_199353.1 |
| 102.7 | 89.9 | 90.6 | 99.8 NM_006248.2 |
| 104.4 | 101.4 | 103.7 | 92.1 NM_006249.4 |
| 96.1 | 86.4 | 89.9 | 87.7 NM_002723.3 |
| 3088.4 | 2304.8 | 1915.3 | 1857.3 NM_003981.2 |
| 142.7 | 130.3 | 129 | 131.5 NM_005973.4 |
| 359.6 | 303.1 | 274.3 | 193.7 NM_199416.1 |
| 1686.7 | 1768.9 | 1699.7 | 1259.9 NM_199418.1 |
| 411.9 | 422.4 | 402.2 | 289.7 NM_005040.2 |
| 100.8 | 98.2 | 92.4 | 109.6 NM_182907.1 |
| 85.9 | 100.6 | 84.1 | 106.6 NM_001198.2 |
| 96.5 | 120.5 | 115.5 | 114 NM_001198.2 |
| 212.9 | 802.6 | 628 | 609.2 NM_001198.2 |
| 310.8 | 398.4 | 361.9 | 332.5 NM_020228.2 |
| 83.8 | 83.8 | 87.6 | 85.4 NM_020229.2 |
| 71.5 | 79.7 | 75.5 | 82.5 NM_021619.2 |
| 101.7 | 93.7 | 96.1 | 96 NM_021620.2 |
| 90.4 | 82.6 | 75.1 | 94.5 NM_024504.2 |
| 94.1 | 89.1 | 82.3 | 88.5 NM_022115.2 |
| 91 | 84.4 | 83.7 | 73.1 NM_022114.2 |
| 83.1 | 92.1 | 75.7 | 82.2 NM_022114.2 |
| 91.5 | 90.2 | 92.8 | 91.4 XM_936938.1 |
| 124.5 | 113.7 | 112.7 | 105 NM_012231.3 |
| 85.7 | 84.5 | 78.2 | 83.4 NM_012231.3 |
| 206.5 | 258.9 | 231.8 | 146.8 NM_012406.3 |
| 101.8 | 87.1 | 90.7 | 93.1 NM_018699.2 |
| 81.1 | 94.5 | 101.1 | 96.5 NM_052996.2 |
| 188.6 | 158.7 | 163.8 | 128.2 NM_020226.2 |
| 121.5 | 112.7 | 110.7 | 102.7 NM_020227.1 |
| 9915.8 | 7498.1 | 6398.2 | 4761 NM_181696.1 |
| 3960.7 | 2750.2 | 2847.5 | 1824.2 NM_181696.1 |
| 98.9 | 99.4 | 86.6 | 92.7 NM_181738.1 |

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|--------|--------|--------|--------|----------------|
| 1133.2 | 796.4 | 687.1 | 595.6 | NM_181738.1 |
| 4316.2 | 2674.7 | 2335.6 | 1897.3 | NM_006793.2 |
| 3153.4 | 1813.2 | 1938.2 | 1456.1 | NM_006406.1 |
| 1942.3 | 2245.9 | 2132.5 | 1458 | NM_012094.3 |
| 5488.4 | 5712.7 | 5193.5 | 4614.4 | NM_181652.1 |
| 5401.1 | 5252 | 4901 | 4504.7 | NM_181652.1 |
| 4975.2 | 3927.9 | 3180.1 | 2298.9 | NM_004905.2 |
| 414.7 | 348.6 | 300.6 | 298.2 | NM_013388.4 |
| 100.7 | 86.8 | 91.4 | 90.2 | NM_001080845.1 |
| 606.1 | 448.5 | 451.8 | 318.1 | NM_199482.1 |
| 229.1 | 177.6 | 190.8 | 159.3 | NM_015387.2 |
| 82.8 | 79.5 | 74.3 | 85.8 | NM_199482.1 |
| 1641 | 1621.6 | 1296.9 | 1149 | NM_013237.2 |
| 108 | 91.7 | 90.3 | 101.2 | NM_205846.1 |
| 92.7 | 87.5 | 91.6 | 95.2 | NM_201348.1 |
| 428.3 | 414.7 | 409.2 | 332.7 | NM_002726.3 |
| 270.7 | 315.6 | 251.6 | 271.9 | NM_006036.3 |
| 136.7 | 213.6 | 230.3 | 168.2 | NM_020820.2 |
| 103.8 | 94.6 | 96.4 | 92.2 | NM_005041.3 |
| 659.5 | 605.1 | 474.6 | 451.6 | NM_024888.1 |
| 201.8 | 134.8 | 119.1 | 115.8 | NM_002728.4 |
| 87.8 | 88.2 | 97 | 93.2 | NM_006093.2 |
| 113 | 113.5 | 117.3 | 121.2 | NM_017753.2 |
| 79.8 | 80.9 | 83.7 | 86.2 | NM_207299.1 |
| 91.6 | 84.2 | 80.7 | 84.4 | NM_017753.2 |
| 96.5 | 85 | 89.5 | 86.1 | NM_006250.1 |
| 95.3 | 80.1 | 86.1 | 92.1 | NM_005042.2 |
| 529.5 | 450.4 | 468.9 | 263.5 | NM_033405.2 |
| 551.2 | 411.7 | 423.7 | 265.2 | NM_153026.1 |
| 97 | 86.6 | 100.1 | 90.3 | NM_198859.1 |
| 1242.4 | 956.2 | 699.4 | 607 | NM_000946.2 |
| 111.2 | 92.1 | 91 | 87.1 | NM_000947.2 |
| 99.7 | 86.2 | 81.5 | 87.4 | NM_178004.1 |
| 164.1 | 198 | 197.2 | 165 | NM_206907.2 |
| 297.4 | 298.3 | 269 | 258.5 | NM_206907.3 |
| 89.4 | 84.7 | 82.4 | 82.4 | NM_006252.2 |
| 223.2 | 199.4 | 188.3 | 165.8 | NM_006253.4 |
| 167.2 | 156.3 | 141.4 | 144.1 | NM_005399.3 |
| 93.4 | 94.9 | 96.6 | 102 | NM_002730.3 |
| 94 | 87.7 | 88.3 | 90.7 | NM_207518.1 |
| 94 | 100.1 | 87.1 | 91.7 | NM_182948.2 |
| 137.6 | 120.5 | 120.4 | 124.1 | NM_002731.2 |
| 90.8 | 80.9 | 75.2 | 92.7 | NM_207578.1 |
| 101 | 92.5 | 96.5 | 101.1 | NM_207578.1 |
| 94.3 | 95.6 | 99.7 | 97.2 | NM_002732.2 |
| 193.5 | 178.3 | 159.2 | 154.9 | NM_212461.1 |
| 308.7 | 344.5 | 262 | 246.9 | NM_002733.3 |
| 350.7 | 387.6 | 377.9 | 329.4 | NM_016203.2 |
| 137.9 | 142.1 | 149.4 | 131.3 | NM_001040633.1 |
| 96.7 | 113.1 | 117.9 | 104.8 | NM_016203.2 |

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| 100.6 | 90 | 87.1 | 96.8 NM_017431.2 |
| 106 | 91.9 | 82.3 | 94.5 NM_212471.1 |
| 427.9 | 408 | 495.2 | 414.6 NM_002734.3 |
| 175.1 | 221.1 | 223.3 | 186.6 NM_002735.1 |
| 171.3 | 273.3 | 252.1 | 217 NM_004157.2 |
| 89 | 105.4 | 83.9 | 93.6 NM_002736.2 |
| 286 | 608.3 | 509.1 | 472.2 NM_002737.2 |
| 114.4 | 106.7 | 107.1 | 99.8 NM_012407.2 |
| 120.4 | 129.9 | 111.7 | 142.6 NM_212535.1 |
| 189.1 | 287.3 | 209.2 | 226.5 NM_212535.1 |
| 2178.9 | 2244.8 | 2014.4 | 1592.9 NM_002738.5 |
| 180.4 | 190.8 | 187.2 | 172.4 NM_012408.3 |
| 81 | 91 | 87.6 | 86.3 NM_183047.1 |
| 2576.1 | 2932.1 | 2933.4 | 1989.7 NM_212539.1 |
| 93.6 | 99.9 | 95.8 | 95.6 NM_006254.3 |
| 147.8 | 213.8 | 199.9 | 144.5 NM_145040.2 |
| 99.8 | 93.1 | 93.6 | 96 NM_005400.2 |
| 95.6 | 88.2 | 80.8 | 90.6 NM_002739.3 |
| 213.9 | 137.4 | 140.3 | 124.4 NM_006255.3 |
| 107.9 | 121.4 | 105.1 | 117.4 NM_002740.4 |
| 507.5 | 324 | 272.3 | 346 NM_006257.2 |
| 900.5 | 673.3 | 644.8 | 383.8 NM_001001329.1 |
| 152.4 | 121.4 | 132 | 114 NM_001001329.1 |
| 111.4 | 103.9 | 95.5 | 85.9 NM_001033582.1 |
| 104.4 | 97.6 | 85.6 | 92.1 NM_002744.4 |
| 175.4 | 211.3 | 234.4 | 160.4 NM_002744.4 |
| 89.2 | 84.3 | 82.5 | 89.1 NM_001033581.1 |
| 77.2 | 79.4 | 77.1 | 76.5 NM_002742.1 |
| 124.8 | 119 | 104.3 | 108 NM_016457.3 |
| 105.5 | 96 | 89 | 97.2 NM_001079881.1 |
| 95.8 | 96.4 | 88.9 | 86.9 NM_005813.3 |
| 780.1 | 1171.2 | 1192.5 | 400.2 NM_006904.6 |
| 124.9 | 133 | 116.4 | 142.5 NM_006904.6 |
| 118.3 | 156.9 | 119.9 | 141.4 NM_006904.6 |
| 89.4 | 87.9 | 80.1 | 79.4 NM_006258.1 |
| 88.6 | 82.2 | 78 | 88.4 NM_006259.1 |
| 313.9 | 384 | 428.7 | 257.4 NM_024653.1 |
| 2084 | 1505.3 | 1272 | 1331.9 NM_004705.2 |
| 147.5 | 149.1 | 149.4 | 131.3 NM_005044.1 |
| 93.1 | 89.9 | 91.6 | 92.5 NM_002760.2 |
| 84.2 | 86.8 | 81.6 | 83.6 NM_000948.2 |
| 88.4 | 89.3 | 88.1 | 88.7 NM_015893.1 |
| 99.1 | 83.3 | 84.3 | 88.7 NM_004248.1 |
| 104.7 | 76 | 77.3 | 83.5 NM_000949.2 |
| 89.3 | 89.4 | 82.4 | 97.4 NM_002761.1 |
| 83.5 | 78.7 | 71 | 84 NM_002762.2 |
| 95.9 | 90.8 | 81.8 | 79.8 XM_929446.1 |
| 98.1 | 109.2 | 93 | 93.7 NM_021247.1 |
| 101.5 | 93.5 | 99.2 | 94.6 NM_198319.1 |
| 1543.9 | 1020.7 | 925.1 | 690.9 NM_198318.1 |

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| 3333.4 | 2540.9 | 2049 | 1748.1 | NM_198319.1 |
| 254 | 292.2 | 289.4 | 276.2 | NM_001535.2 |
| 107.7 | 109.2 | 105.2 | 124.2 | NM_206962.1 |
| 238.7 | 373.9 | 376.2 | 315.9 | NM_206962.1 |
| 538 | 376.7 | 299.8 | 274 | NM_001039619.1 |
| 556.5 | 404.8 | 339.4 | 242.2 | NM_006109.2 |
| 1483.4 | 603.9 | 518.3 | 460.9 | NM_018137.1 |
| 192.6 | 140.3 | 131.9 | 112 | NM_019023.1 |
| 99.5 | 89.1 | 80.6 | 89.5 | NM_019854.3 |
| 90.1 | 87.9 | 84.3 | 98.2 | NM_012409.2 |
| 382.8 | 504.2 | 380.4 | 319.6 | NM_183079.2 |
| 1539.7 | 1622.2 | 1390.8 | 1264.9 | NM_183079.2 |
| 85.1 | 90.3 | 86.7 | 80.4 | NM_024066.1 |
| 85.9 | 78.1 | 86.1 | 84 | NM_177549.2 |
| 460.7 | 376.3 | 320.5 | 263.5 | NM_014117.2 |
| 78 | 77.7 | 82 | 92.3 | NR_002762.1 |
| 132.6 | 172.9 | 182.2 | 160.7 | NR_002764.1 |
| 115.3 | 123.5 | 149.8 | 136 | NM_144736.3 |
| 136.9 | 128.8 | 121.5 | 123 | NM_144736.3 |
| 98.7 | 112.7 | 115.7 | 99.8 | NM_000312.1 |
| 93.9 | 93.7 | 86 | 92.9 | NM_152465.1 |
| 171.9 | 130.8 | 126.4 | 113.3 | NM_006404.3 |
| 88 | 86 | 78.1 | 76.3 | NM_016335.2 |
| 83.6 | 85.2 | 89.4 | 82 | NM_021232.1 |
| 80.9 | 92.3 | 77.6 | 94 | NM_032414.2 |
| 128.1 | 113.9 | 111.3 | 98.8 | NM_021935.2 |
| 92.2 | 67.6 | 79.1 | 76.6 | NM_138964.2 |
| 97.1 | 93.9 | 91.7 | 95.1 | NM_144773.2 |
| 93.3 | 92.4 | 86.5 | 87.8 | NM_021225.1 |
| 100.2 | 70 | 71.8 | 86.1 | NM_006017.1 |
| 87 | 81.5 | 88.3 | 79.3 | NM_144707.1 |
| 84.1 | 91 | 81.9 | 86.1 | NM_006261.2 |
| 1393.7 | 1386.2 | 1154.7 | 1020.2 | NM_000313.1 |
| 92.9 | 87.1 | 89.3 | 92 | NM_014731.2 |
| 2861.6 | 2001.7 | 1573.5 | 1618.8 | NM_007198.2 |
| 83 | 86.5 | 81.4 | 80.8 | NM_002763.3 |
| 81.9 | 83.2 | 79.8 | 86.3 | NM_003891.1 |
| 89.5 | 93.2 | 89.6 | 95.6 | NM_173490.4 |
| 222.7 | 153.6 | 163.3 | 153.3 | NM_003675.2 |
| 452.9 | 338.6 | 265.3 | 240.8 | NM_014502.3 |
| 1478.1 | 1256.8 | 1033.9 | 1050.6 | NM_004698.1 |
| 881.8 | 627.4 | 499.9 | 446.9 | NM_015629.2 |
| 469.9 | 502.2 | 403.5 | 331.5 | NM_032864.2 |
| 136 | 149.1 | 122.7 | 128.6 | NM_032284.2 |
| 345.4 | 222.7 | 217.4 | 227.2 | NM_018061.1 |
| 101.5 | 102.2 | 97.7 | 107.3 | NM_017922.2 |
| 2796.8 | 1489.2 | 1225 | 937.7 | NM_004697.3 |
| 110.9 | 100.8 | 89.2 | 94.1 | NM_001031698.1 |
| 97.1 | 84.1 | 80.2 | 82.8 | NM_012272.1 |
| 92 | 97.4 | 84.8 | 105.9 | NM_176800.1 |

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| 78.6 | 81.5 | 72.5 | 83.7 NM_176800.1 |
| 196.4 | 236.1 | 210.6 | 286.2 NM_003913.3 |
| 1453.5 | 1222.9 | 992.9 | 597.2 NM_006445.2 |
| 112.1 | 122.2 | 110.7 | 112.5 NM_006262.3 |
| 1177 | 572.7 | 567.5 | 371.4 NM_002764.2 |
| 86.9 | 83.8 | 89.3 | 84.5 NM_175886.2 |
| 276.6 | 269.3 | 232 | 221.7 NM_002765.2 |
| 563.6 | 586.9 | 549.3 | 345.8 NM_001039091.1 |
| 1132.1 | 1334.6 | 1314.2 | 938.1 NM_002766.1 |
| 316.7 | 342 | 335.9 | 220 NM_002767.2 |
| 350.6 | 312.5 | 277.2 | 221.9 NM_018304.1 |
| 13978.6 | 9777.1 | 9636.6 | 6535.7 NM_018457.2 |
| 97.5 | 79.9 | 84.3 | 86.8 NM_175887.2 |
| 98.6 | 91.1 | 85.7 | 95.3 NM_001077497.1 |
| 106 | 95.2 | 97.8 | 84.2 NM_025263.1 |
| 133.5 | 101.6 | 104.1 | 105 NM_007244.1 |
| 97.7 | 89.4 | 86.4 | 95.2 NM_181333.2 |
| 288.2 | 259.7 | 229.3 | 194.8 NM_001017530.1 |
| 163 | 146.1 | 138.7 | 135.6 NM_001017530.1 |
| 932.9 | 696.5 | 759.5 | 372 NM_181716.2 |
| 103.1 | 99.6 | 91.7 | 95.7 NM_030567.2 |
| 102 | 95.2 | 97.7 | 99.1 NM_053043.1 |
| 298.7 | 234.9 | 209.4 | 189.7 NM_000950.1 |
| 86.8 | 77.9 | 88.8 | 79.7 NM_000951.1 |
| 91 | 88.2 | 84.3 | 85.4 NM_024082.2 |
| 152.8 | 148.2 | 158.6 | 144.7 NM_024081.4 |
| 94.7 | 91.2 | 92 | 92.2 NM_030651.2 |
| 92.4 | 90.4 | 88.2 | 85.1 NM_145239.1 |
| 126.6 | 117 | 99.5 | 99.4 NM_207351.2 |
| 89.3 | 94.3 | 89.3 | 87 NM_022716.2 |
| 86.9 | 92.2 | 85.6 | 82.1 NM_006902.3 |
| 95.5 | 86.1 | 74.2 | 78.1 NM_016307.3 |
| 93.8 | 84.6 | 78.8 | 81 NM_002769.2 |
| 182.1 | 197.5 | 185.9 | 171.4 NM_003619.2 |
| 1514.2 | 1420.5 | 1223.3 | 1008.3 NM_004793.2 |
| 94.9 | 102.3 | 85.1 | 92.9 NM_005865.2 |
| 90.6 | 79 | 73.9 | 87.8 NM_002770.2 |
| 83.1 | 87.1 | 86.2 | 85.2 NM_006799.2 |
| 78.5 | 77.4 | 86 | 93.6 NM_006799.2 |
| 96.1 | 79.3 | 93 | 84.3 NM_022119.3 |
| 84.4 | 84.7 | 85.5 | 81.3 NM_007173.3 |
| 114.7 | 104.9 | 104.1 | 108 NM_031948.3 |
| 99.4 | 96.3 | 99.6 | 97.5 NM_002771.2 |
| 86.8 | 83.7 | 76.3 | 85.7 NM_152891.1 |
| 90 | 85.3 | 79.4 | 96.5 NM_153362.1 |
| 136 | 118.2 | 107.9 | 110.1 NM_002772.1 |
| 82.1 | 90.2 | 74.7 | 79.2 NM_002773.2 |
| 117 | 101.7 | 97.9 | 92.7 NM_214710.1 |
| 79.5 | 84.4 | 85.8 | 83.5 NM_020200.5 |
| 84.5 | 84.6 | 88.1 | 76.8 XM_945227.1 |

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| 87.9 | 95.4 | 84.2 | 86.2 NM_173814.3 |
| 8313.4 | 5573.5 | 5476.3 | 4935.7 NM_002777.3 |
| 274.1 | 243 | 197.2 | 212.7 NM_021222.1 |
| 94.7 | 88.6 | 87.3 | 90.2 NM_138818.2 |
| 87.4 | 89.5 | 84 | 94.1 NM_181882.2 |
| 94.6 | 97.8 | 100.5 | 93 NM_020956.1 |
| 107.1 | 106.8 | 97.6 | 90.8 NM_020956.1 |
| 82.4 | 78.1 | 76.6 | 75.3 NM_004676.2 |
| 1879.6 | 3338.4 | 3243.7 | 1618.1 NM_002778.1 |
| 1550.2 | 3251.5 | 2970.2 | 1642.9 NM_002778.1 |
| 3521.3 | 3558.3 | 3479.9 | 2609.4 NM_018622.4 |
| 3338.2 | 1073.7 | 915.8 | 859.9 NM_021154.3 |
| 84.3 | 84.6 | 88.1 | 82.8 NM_058179.2 |
| 91.9 | 100.6 | 85.6 | 90.1 NM_005672.2 |
| 125.8 | 128.2 | 121.8 | 117.1 NM_017456.2 |
| 936.2 | 1027.5 | 1001.4 | 673.5 NM_017456.2 |
| 123 | 111 | 120.1 | 122.5 NM_004228.4 |
| 108.2 | 98.9 | 93.1 | 87.6 NM_017457.3 |
| 139 | 146.9 | 120.5 | 126.5 NM_004227.3 |
| 824.9 | 720.8 | 738.5 | 355.3 NM_013385.2 |
| 79.8 | 80.4 | 79.4 | 74.3 NM_004288.3 |
| 86.7 | 93.7 | 89.1 | 86.9 NM_002779.3 |
| 94.3 | 80.9 | 84.3 | 82.9 NM_032289.1 |
| 102.5 | 98.2 | 88.1 | 103.6 NM_015310.2 |
| 102.1 | 95.6 | 88.7 | 85.8 NM_206909.1 |
| 136.5 | 160.4 | 136 | 141.6 NM_206909.1 |
| 428.5 | 395.7 | 379.7 | 262.1 NM_012455.2 |
| 133.6 | 131.2 | 135.2 | 142.1 NM_000021.2 |
| 122.6 | 96.6 | 92.2 | 102.5 NM_007319.1 |
| 250 | 234.8 | 215.3 | 187.1 NM_000447.1 |
| 328 | 291 | 246.8 | 175.9 NM_012486.1 |
| 153.9 | 124 | 117.3 | 107.9 NM_172341.1 |
| 82.3 | 91.9 | 72.6 | 78.2 NM_021067.2 |
| 83.1 | 79.9 | 81.7 | 83 NM_006905.2 |
| 74.5 | 79.2 | 92 | 87 NM_203287.1 |
| 104.1 | 99.8 | 94 | 90.3 NM_031246.1 |
| 82.8 | 81.5 | 78 | 81.9 NM_021016.2 |
| 88.8 | 88.1 | 90 | 86.2 NM_002780.3 |
| 80.9 | 81.3 | 77.1 | 78.7 NM_002780.3 |
| 88.7 | 83.8 | 88.1 | 96.4 NM_002780.3 |
| 94 | 86.3 | 82.5 | 86.2 NM_002781.2 |
| 96.4 | 93.9 | 84.1 | 90.1 NM_002782.3 |
| 104.1 | 102.3 | 94.6 | 101.1 NM_001031850.1 |
| 96.4 | 84.8 | 87.5 | 90.8 NM_002782.3 |
| 92.1 | 74 | 82.6 | 86.2 NM_002783.1 |
| 97.7 | 98.9 | 88.1 | 97.4 NM_182707.1 |
| 87.2 | 83.1 | 87.5 | 86.5 NM_002784.2 |
| 87.4 | 85.8 | 83 | 82.2 NM_021144.2 |
| 599.1 | 411.8 | 435.3 | 476.5 NM_033222.2 |
| 84.3 | 87.1 | 78.2 | 74.6 NR_001591.1 |

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|---------|--------|--------|--------|----------------|
| 86.7 | 100.5 | 87.6 | 78.9 | NM_006742.1 |
| 78.3 | 81.6 | 72 | 75.6 | NM_033126.1 |
| 88 | 92.9 | 98.2 | 100.1 | NM_148976.1 |
| 596.6 | 419.4 | 367.6 | 314.6 | NM_002786.2 |
| 5102.1 | 3620.2 | 3346.2 | 2116.8 | NM_148976.1 |
| 491.4 | 321.5 | 235.1 | 285.1 | NM_002787.3 |
| 1248.6 | 962.7 | 748.2 | 820 | NM_152132.1 |
| 529.9 | 407.3 | 259.1 | 374.3 | NM_002788.2 |
| 1992.9 | 1592.1 | 1474.5 | 1120.4 | NM_002789.3 |
| 8844.1 | 3672.5 | 2966.7 | 2681.1 | NM_002790.2 |
| 12347.1 | 9041.3 | 6877 | 7239.5 | NM_002791.1 |
| 91.6 | 92.5 | 86.7 | 87.8 | NM_001025096.1 |
| 92.8 | 87.4 | 86.5 | 86.6 | NM_153696.2 |
| 9367.3 | 8495.9 | 7798.7 | 5904.1 | NM_002793.2 |
| 5119.5 | 4160.1 | 4246.7 | 2544.3 | NM_002801.2 |
| 2439 | 1768.5 | 1558.2 | 1111.3 | NM_002794.3 |
| 8269.2 | 5159.9 | 5163.8 | 3613.9 | NM_002795.2 |
| 4308.5 | 2797 | 2285 | 1960.9 | NM_002796.2 |
| 1552.1 | 1021.4 | 839 | 680.3 | NM_002797.2 |
| 3477.1 | 2771.3 | 2834.1 | 1515.3 | NM_002798.1 |
| 4720.4 | 4102.9 | 3504.9 | 2300.9 | NM_002799.2 |
| 774.8 | 796.1 | 685.2 | 531.9 | NM_148919.3 |
| 246 | 204.3 | 200.2 | 156.7 | NM_004159.4 |
| 94.7 | 96.9 | 87 | 95.9 | NM_004159.4 |
| 2458 | 2357 | 2300.7 | 1487.1 | NM_004159.4 |
| 528.8 | 403.7 | 358.2 | 259.9 | NM_002800.4 |
| 109.1 | 90.8 | 81 | 92 | NM_002800.4 |
| 8251.9 | 7843.5 | 6193 | 5026.1 | NM_002802.2 |
| 3394.6 | 2896.9 | 2650.4 | 2374.3 | NM_002803.2 |
| 1429.9 | 1519 | 1430.8 | 704.6 | NM_002804.3 |
| 145.4 | 109.3 | 106.7 | 114.8 | NM_016556.1 |
| 244.4 | 198.1 | 206.4 | 183.1 | NM_016556.1 |
| 748.7 | 435.4 | 395.4 | 350 | NM_006503.2 |
| 456.7 | 323.9 | 353.3 | 221.8 | NM_006503.2 |
| 930.6 | 952.9 | 861.4 | 605.6 | NM_002805.4 |
| 105.6 | 94.7 | 89.4 | 101.4 | NM_002806.2 |
| 1733.3 | 1664.2 | 1198.6 | 1397.6 | NM_002807.2 |
| 1328.9 | 1247.5 | 942.8 | 932.4 | NM_170750.1 |
| 112 | 113.2 | 93 | 101 | NM_002814.2 |
| 365.5 | 380.6 | 299.8 | 301.4 | NM_002814.2 |
| 164 | 139.5 | 148.7 | 117.8 | NM_002815.2 |
| 1670.9 | 1149.6 | 822.5 | 960.4 | NM_002816.3 |
| 96.1 | 102 | 99.2 | 88.6 | NM_175932.1 |
| 162.1 | 155.2 | 138.5 | 145.9 | NM_002817.2 |
| 1308.7 | 890.2 | 750.4 | 961.1 | NM_005805.2 |
| 997.1 | 1017.2 | 862.5 | 545.3 | NM_002808.3 |
| 222.3 | 195.9 | 161.3 | 182.8 | NM_002809.2 |
| 167.2 | 111.3 | 152.5 | 115.7 | NM_153822.1 |
| 1842.4 | 1439.4 | 1314.7 | 921.7 | NM_002810.2 |
| 3227.8 | 2594.5 | 2348.5 | 1553.6 | NM_002810.1 |

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|---------|---------|--------|--------|----------------|
| 220 | 136.6 | 118.4 | 109.8 | NM_005047.2 |
| 2899.7 | 2061.3 | 1654.3 | 1454.9 | NM_014814.1 |
| 2993.5 | 2034.8 | 1462.1 | 1244.2 | NM_002811.3 |
| 692.1 | 466.7 | 515.9 | 265 | NM_002812.3 |
| 157.3 | 155.1 | 139.2 | 132.4 | NM_002813.4 |
| 4608.9 | 2550.4 | 2309.6 | 2362.1 | NM_006263.2 |
| 101.5 | 100 | 98.6 | 106 | NM_176783.1 |
| 2010.4 | 1196 | 1109.5 | 774.1 | NM_002818.2 |
| 633.8 | 617.2 | 481.2 | 361.6 | NM_005789.2 |
| 716.5 | 652.3 | 527.5 | 412.9 | NM_005789.2 |
| 946.2 | 1065.2 | 861.1 | 594 | NM_014614.1 |
| 84.5 | 78.6 | 87.2 | 83.8 | NM_178578.1 |
| 1033.4 | 841.4 | 836 | 510.2 | NM_178579.1 |
| 133.8 | 128.8 | 133.4 | 107.5 | NM_014068.1 |
| 107.1 | 86.7 | 88.9 | 100 | NM_014069.1 |
| 247.6 | 156.6 | 169.9 | 160 | NM_018282.1 |
| 144.9 | 118.6 | 116.5 | 100.6 | NM_004577.3 |
| 80.8 | 87 | 80.9 | 80 | NM_004158.2 |
| 847 | 269.8 | 237.1 | 176.9 | NM_001005290.2 |
| 106.4 | 94.3 | 78.1 | 100.8 | NM_001032291.1 |
| 105.1 | 103 | 94.3 | 91.1 | NM_001032290.1 |
| 112.1 | 137.3 | 115.3 | 151.9 | NM_144982.3 |
| 188.1 | 227.4 | 235.3 | 156.7 | NM_003978.2 |
| 137.5 | 138.7 | 148.2 | 132.3 | NM_024430.2 |
| 92.1 | 85.3 | 83.1 | 75.9 | NM_000952.3 |
| 8802.9 | 5137.2 | 5125 | 3385.4 | NM_175847.1 |
| 15575.1 | 10018.8 | 9831.8 | 6112.5 | NM_175847.1 |
| 219.7 | 210 | 223.9 | 211.4 | NM_021190.1 |
| 688.3 | 437.2 | 453.5 | 247.1 | NM_015545.2 |
| 339.4 | 272.7 | 260.8 | 216.9 | NM_024754.3 |
| 109.1 | 99.4 | 103.5 | 107.4 | NM_000264.2 |
| 94.7 | 83.3 | 91.1 | 90.6 | NM_003738.3 |
| 86.9 | 82.4 | 79.9 | 88.2 | NM_173495.1 |
| 102 | 88.4 | 98 | 87.8 | NM_001034842.2 |
| 107.1 | 101.9 | 89.1 | 93.4 | NM_138296.2 |
| 96.3 | 90.9 | 84.7 | 91.2 | NM_013341.3 |
| 93.6 | 106.8 | 93 | 94.3 | NM_013341.3 |
| 1639 | 1028.6 | 1128.2 | 672.1 | NM_016145.1 |
| 372.2 | 305.6 | 274.8 | 245.3 | NM_024684.2 |
| 93.1 | 82.6 | 87.5 | 84.2 | NM_015167.1 |
| 163.4 | 155.5 | 138 | 125.1 | NM_015167.1 |
| 4053.1 | 2166.6 | 1576.4 | 1416.1 | NM_014754.1 |
| 113 | 131.4 | 123.6 | 99 | NM_030783.1 |
| 97.9 | 165.3 | 144.9 | 132.9 | NM_000314.3 |
| 86.3 | 83.8 | 72.1 | 81.2 | NM_030664.3 |
| 96.7 | 87.5 | 82.9 | 86.4 | NM_001001484.1 |
| 104.3 | 95.6 | 94.6 | 97.8 | NM_030664.3 |
| 91.9 | 76.1 | 83.9 | 85.7 | NM_178161.1 |
| 92.5 | 86.3 | 89 | 87.9 | NM_000953.2 |
| 103.9 | 166.2 | 152 | 146 | NM_000954.5 |

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| 111.2 | 99.2 | 99.5 | 92.1 NM_000955.2 |
| 107.7 | 108.7 | 92.9 | 101.3 NM_000956.2 |
| 88.9 | 87.9 | 83.4 | 90.6 NM_198715.1 |
| 88.2 | 83.9 | 82.7 | 80.2 NM_198716.1 |
| 104.8 | 97.2 | 87.1 | 95 NM_198719.1 |
| 86.2 | 84.1 | 75.9 | 83.2 NM_000957.2 |
| 82.5 | 88.5 | 78.4 | 80.9 NM_198718.1 |
| 86.1 | 80.5 | 86.2 | 87.9 NM_198712.2 |
| 439.9 | 407.2 | 523.1 | 529.9 NM_000958.2 |
| 89 | 87.7 | 85.5 | 90.2 NM_004878.3 |
| 570.3 | 302.5 | 269.8 | 226.5 NM_198938.1 |
| 732.4 | 479.5 | 365.1 | 221 NM_198938.1 |
| 1941.9 | 910.1 | 867.4 | 1124.9 NM_006601.4 |
| 81.6 | 88.6 | 82.1 | 81.9 NM_000959.3 |
| 92 | 94.8 | 97.4 | 87.9 NM_000959.2 |
| 92.4 | 90.2 | 83 | 96.5 NM_020440.2 |
| 110.1 | 105.9 | 100.6 | 103.3 NM_000960.3 |
| 79.6 | 85.6 | 80.4 | 87.2 NM_000961.3 |
| 204.7 | 186.6 | 179.3 | 171.2 NM_080591.1 |
| 118.9 | 101.5 | 104.9 | 96.9 NM_000962.2 |
| 162.4 | 195.6 | 168.5 | 152.8 NM_000963.1 |
| 74.8 | 80.2 | 71.2 | 79.2 NM_000315.2 |
| 83.7 | 86.4 | 78.9 | 82.1 NM_198966.1 |
| 99.5 | 85.9 | 81 | 88.7 NM_198965.1 |
| 115.8 | 109.8 | 111.1 | 103 NM_000316.2 |
| 85.9 | 77.9 | 82 | 81.5 NM_005048.2 |
| 838.8 | 210.9 | 168.7 | 154.3 NM_153831.2 |
| 82.3 | 71.3 | 83.3 | 86.4 NM_153831.2 |
| 97.4 | 106.8 | 102.7 | 95.2 NM_004103.3 |
| 140 | 152 | 144 | 147.9 NM_173176.1 |
| 95.2 | 98.8 | 107.6 | 103 NM_173174.1 |
| 141.1 | 141.4 | 123.1 | 119.9 NM_005975.2 |
| 105.9 | 91 | 108.4 | 102.9 NM_152882.2 |
| 104.3 | 91.8 | 88.3 | 90.8 NM_152880.2 |
| 93.8 | 86.7 | 84.5 | 89.9 NM_198974.1 |
| 114.7 | 106.9 | 97.4 | 111.3 XM_936937.1 |
| 867.6 | 705.5 | 571.7 | 481.6 NM_007284.3 |
| 1132.1 | 611.5 | 722.1 | 883.3 NM_002823.2 |
| 155.7 | 160.5 | 133.8 | 132.5 NM_002824.4 |
| 214.1 | 197.7 | 197.5 | 165.4 NM_002825.5 |
| 1716.2 | 1134.3 | 1028 | 877 NM_017432.2 |
| 86 | 89.7 | 90.8 | 82.3 NM_003463.3 |
| 2879.2 | 3879.1 | 3349.6 | 2533 NM_080392.2 |
| 144.3 | 135.4 | 132.7 | 129.6 NM_007079.2 |
| 146.1 | 151.3 | 150.3 | 130.5 NM_007079.2 |
| 84.8 | 82.3 | 82.1 | 85.8 NM_152422.3 |
| 146.1 | 166.3 | 167 | 171 NM_152422.3 |
| 80.1 | 91.1 | 81.7 | 83.9 NM_177995.1 |
| 612.9 | 330.6 | 300.9 | 349.1 NM_014241.2 |
| 1386.8 | 952.5 | 765.7 | 644.1 NM_016395.1 |

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| 258.2 | 347.5 | 480.3 | 319.4 | NM_001010915.1 |
| 781.4 | 755.4 | 592.1 | 605.7 | NM_198402.2 |
| 652.1 | 967 | 858.6 | 658.7 | NM_002827.2 |
| 1370.5 | 1464.4 | 1033.7 | 1077.1 | NM_002834.3 |
| 836 | 1294.9 | 1141.2 | 935.7 | NM_002835.2 |
| 86.7 | 80.8 | 77.5 | 89.3 | NM_080684.1 |
| 95.9 | 92.5 | 93.2 | 90.8 | NM_005401.3 |
| 94.6 | 99.9 | 91 | 99 | NM_014369.2 |
| 91.2 | 83 | 81.4 | 89.1 | NM_002828.2 |
| 340.5 | 421.9 | 397.6 | 312.6 | NM_080422.1 |
| 85.5 | 76.9 | 76.4 | 84.7 | NM_001042389.1 |
| 82.5 | 89.5 | 85.8 | 91.8 | NM_001042358.3 |
| 82.4 | 88.8 | 70.3 | 82.9 | NM_007039.2 |
| 105.7 | 107.4 | 102.8 | 99.3 | NM_012411.2 |
| 89.1 | 81.9 | 78.5 | 81.8 | NM_012411.2 |
| 156.5 | 124.9 | 127.1 | 117.6 | NM_015967.3 |
| 125.2 | 138 | 134.5 | 140.9 | NM_015466.1 |
| 114.2 | 113.4 | 95.3 | 98.3 | NM_002829.2 |
| 176 | 165.3 | 146.1 | 156.1 | NM_002830.2 |
| 87.5 | 96.5 | 86.1 | 77 | NM_032781.2 |
| 87.4 | 84.8 | 78.3 | 88.2 | NM_001039970.1 |
| 84.2 | 87.1 | 94.1 | 85.9 | NM_080548.2 |
| 1221.5 | 822 | 622.4 | 658.6 | NM_080549.2 |
| 102.1 | 122.2 | 120.1 | 110.1 | NM_080588.1 |
| 1161.2 | 657.1 | 546.8 | 528.4 | NM_080588.1 |
| 148.4 | 146.4 | 146.1 | 131.2 | NM_002833.2 |
| 97.5 | 111.5 | 91.7 | 96.9 | NM_002833.2 |
| 723 | 758.4 | 652.2 | 441.7 | NM_080792.1 |
| 167.8 | 216.7 | 175 | 178.7 | NM_080792.1 |
| 88.7 | 96.9 | 93 | 91.9 | NM_080841.2 |
| 203.9 | 232.8 | 237.2 | 199.8 | NM_080841.2 |
| 162.4 | 163 | 156.2 | 131.7 | NM_080841.2 |
| 117.2 | 123.3 | 114.1 | 116.4 | NM_080840.1 |
| 93.5 | 84.6 | 93.4 | 89.8 | NM_002837.2 |
| 80.1 | 74.8 | 68.2 | 77.2 | NM_080923.1 |
| 116.6 | 120.8 | 114.7 | 92 | NM_080921.2 |
| 110.5 | 140.2 | 128.1 | 124.1 | NM_080922.1 |
| 98.4 | 95.6 | 92.4 | 94.9 | NM_002838.2 |
| 108.5 | 97.7 | 96.2 | 97.7 | NM_005608.2 |
| 93.8 | 87.4 | 84.3 | 86.3 | NM_130391.2 |
| 98.3 | 86.5 | 82.4 | 92.7 | NM_130391.2 |
| 748.5 | 964.7 | 821.5 | 749.6 | NM_130435.2 |
| 118.8 | 106.1 | 105.1 | 105.4 | NM_006504.3 |
| 87.6 | 94 | 89.1 | 93.2 | NM_130435.2 |
| 567 | 854.4 | 974.8 | 438.5 | NM_002840.3 |
| 475.7 | 760.8 | 676.7 | 664.3 | NM_130440.1 |
| 96.3 | 114.7 | 86.2 | 93.7 | NM_002841.2 |
| 92.7 | 91.5 | 92.8 | 90.9 | NM_002842.2 |
| 250.9 | 259.5 | 202.1 | 236.8 | NM_002844.2 |
| 82.7 | 80.3 | 78.9 | 81.4 | NM_002845.2 |

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| 100.4 | 97.7 | 78.5 | 80.7 NM_002846.2 |
| 199 | 164.6 | 152.2 | 154.8 NM_002847.2 |
| 153.8 | 126.3 | 121.3 | 114.5 NM_030670.1 |
| 230.7 | 172 | 150.8 | 163.9 NM_030671.1 |
| 91.7 | 85 | 75.8 | 82.5 NM_002849.2 |
| 118.2 | 119.5 | 113.2 | 104.5 NM_130846.1 |
| 96.2 | 96.8 | 85.8 | 89.5 NM_130855.2 |
| 98.2 | 84 | 91.9 | 76 NM_130855.2 |
| 79.2 | 87.2 | 84.2 | 77.5 NM_133170.2 |
| 97.9 | 87 | 78 | 92.1 NM_133170.2 |
| 90.7 | 81.2 | 74.7 | 77.1 NM_007050.4 |
| 82.1 | 94.2 | 92.3 | 80.2 NM_005704.3 |
| 99.1 | 86.1 | 76.1 | 81.6 NM_133178.1 |
| 96.2 | 96.3 | 95.8 | 88.2 NM_002851.1 |
| 84.2 | 76.4 | 80.3 | 87.8 NM_012232.2 |
| 228.5 | 165.8 | 180.2 | 110.7 NM_001002913.1 |
| 1383.3 | 1047.2 | 876 | 750.1 NM_016077.3 |
| 168.1 | 146 | 136.6 | 142.2 NM_001015509.1 |
| 642.6 | 465.4 | 475.7 | 398.6 NM_000317.1 |
| 4620.6 | 1530.5 | 1352.7 | 823.9 NM_004219.2 |
| 1983.2 | 2357.2 | 2348 | 1740.9 NM_004339.2 |
| 187.6 | 140.7 | 144.5 | 120.6 NM_006607.1 |
| 1698.3 | 493.2 | 434.5 | 365.4 NR_002734.1 |
| 85.4 | 84 | 82.5 | 86.3 NM_002852.2 |
| 1349.3 | 1717.2 | 1695.5 | 1030.5 NM_001020658.1 |
| 1479.6 | 1293.2 | 1319.2 | 924.9 NM_014676.2 |
| 1064.4 | 1096 | 893 | 961.7 NM_015317.1 |
| 93 | 82.7 | 72.9 | 81.5 NM_004884.2 |
| 386.1 | 382.3 | 344.5 | 512 NM_005859.3 |
| 1305.3 | 1843.4 | 1613.2 | 1570.9 NM_033224.3 |
| 161.6 | 155 | 159.1 | 131.5 NM_001015508.1 |
| 84.1 | 83 | 78.7 | 81.6 NM_013357.2 |
| 2220.8 | 1333.3 | 1510.2 | 751.4 NM_025215.4 |
| 100.9 | 95.1 | 102.7 | 86.7 NM_025215.4 |
| 391.4 | 235.7 | 248.1 | 189.9 NM_001002019.1 |
| 177.3 | 134.2 | 132.7 | 131.3 NM_031307.2 |
| 696.5 | 504.6 | 410.5 | 351.6 NM_019042.3 |
| 256.9 | 249.3 | 174.2 | 194.6 NM_031292.2 |
| 225.9 | 216.4 | 174.2 | 167.5 NM_153339.1 |
| 82.6 | 85.1 | 76.2 | 82.6 NM_002854.2 |
| 149.7 | 132.9 | 121.4 | 116.7 NM_006505.2 |
| 91.5 | 87.5 | 83.3 | 99.2 NM_203285.1 |
| 107.2 | 87 | 84.7 | 82.8 NM_203286.1 |
| 95.8 | 100.4 | 87 | 88.4 NM_203285.1 |
| 77.7 | 81.1 | 81.7 | 87.1 NM_002855.3 |
| 201.3 | 123.1 | 128.1 | 136.8 NM_001042724.1 |
| 328 | 175.5 | 194.4 | 169.7 NM_002856.1 |
| 103.7 | 104.6 | 91.2 | 88.7 NM_001042724.1 |
| 110.7 | 97.8 | 89.2 | 97.1 NM_015480.1 |
| 89.9 | 89.7 | 89.8 | 86.9 NM_030916.1 |

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| 1252.3 | 1145.7 | 818.1 | 716.2 | NM_007062.1 |
| 109 | 106.5 | 96.2 | 82.8 | NM_005049.2 |
| 248.7 | 235.4 | 207.6 | 214.3 | NM_138499.2 |
| 98.9 | 97.3 | 97.7 | 100.3 | NM_138499.2 |
| 90.3 | 71.9 | 76.2 | 85.4 | NM_012293.1 |
| 88.9 | 80.7 | 91.2 | 97.1 | NM_144651.4 |
| 354.8 | 413.1 | 383.2 | 360.5 | NM_017771.2 |
| 1381.4 | 1033.2 | 948.6 | 841.7 | NM_018663.1 |
| 506.5 | 376.4 | 367.9 | 312.6 | NM_018663.1 |
| 1016.1 | 623.6 | 494 | 482.3 | NM_000318.1 |
| 123.3 | 139.8 | 121.7 | 101.3 | NM_007238.3 |
| 138.8 | 150.4 | 143.6 | 144.5 | NM_007238.3 |
| 92.6 | 107.5 | 101.3 | 104.3 | NM_002859.1 |
| 84.6 | 79.1 | 82.3 | 85.8 | NM_152990.2 |
| 319.5 | 312.8 | 266.3 | 243.3 | NM_145182.1 |
| 6443.4 | 4518.5 | 5097.4 | 3852.4 | NM_145183.1 |
| 88 | 80.7 | 77.1 | 87.5 | NM_153824.1 |
| 1119.8 | 1103.1 | 909.5 | 898.5 | NM_013328.2 |
| 95 | 81.8 | 93.7 | 87.9 | NM_023078.1 |
| 86.8 | 88.2 | 82.1 | 96.2 | NM_152901.1 |
| 332.4 | 246.6 | 221.3 | 166.7 | NM_002862.3 |
| 621.8 | 575.1 | 337.2 | 489.2 | NM_002863.3 |
| 88.4 | 94.3 | 85.1 | 97.2 | NM_005609.1 |
| 98 | 97 | 99.5 | 102.4 | NM_015617.1 |
| 124.4 | 127.7 | 102 | 118.2 | NM_138300.3 |
| 81.3 | 96.6 | 92.9 | 101.2 | NM_152501.3 |
| 95 | 107.4 | 111.3 | 103.3 | NM_198929.2 |
| 126.4 | 146 | 145 | 121.8 | NM_152501.3 |
| 85.7 | 77.8 | 81.7 | 80.6 | NM_004160.3 |
| 75.6 | 71.8 | 73.2 | 72.4 | NR_003064.2 |
| 89.6 | 94 | 83.4 | 85.6 | NM_002864.1 |
| 4119.7 | 4484.4 | 3788.5 | 2516.2 | NM_005051.1 |
| 1278.2 | 714.5 | 644.5 | 480.8 | NM_000320.1 |
| 1821.6 | 1351 | 1082.2 | 900.6 | NM_205767.1 |
| 84.2 | 105.5 | 91.2 | 101.5 | NM_206853.1 |
| 137.4 | 172.3 | 164.8 | 130.9 | NM_206854.1 |
| 139.5 | 174.7 | 137.5 | 137.8 | XM_942223.1 |
| 10221.1 | 9061.9 | 8307.7 | 6556.8 | NM_014402.2 |
| 181.3 | 174.2 | 131.2 | 152.8 | NM_012413.3 |
| 135.8 | 136.4 | 128.4 | 97.5 | NM_017659.1 |
| 2395.7 | 2754.4 | 2667.3 | 1648.9 | NM_014298.3 |
| 99.2 | 97.3 | 88.9 | 89.3 | NM_017730.2 |
| 81.6 | 87.4 | 81.3 | 89 | NM_017730.2 |
| 1779.5 | 1869.3 | 1929.8 | 1192.8 | NM_017730.2 |
| 83.2 | 85.3 | 85.9 | 86.2 | NM_032134.1 |
| 126.6 | 132.9 | 117.5 | 104 | NM_018292.2 |
| 528.7 | 463.4 | 292.3 | 256.3 | NM_001004128.2 |
| 216.8 | 217.3 | 197.4 | 200.2 | NM_002826.4 |
| 264.6 | 253.6 | 285.3 | 162.3 | NM_181701.2 |
| 113.7 | 111.6 | 99.2 | 91.9 | NM_001076786.1 |

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| 157.9 | 140 | 113.7 | 109 NM_031209.1 |
| 194.4 | 126.6 | 153.1 | 131.8 NM_024638.2 |
| 132 | 127.4 | 107.1 | 120.6 NM_015361.2 |
| 118.8 | 131.7 | 124.6 | 119.9 NM_014925.2 |
| 82.7 | 85.3 | 73.7 | 81.9 NM_178491.2 |
| 3009 | 2955.3 | 2614.7 | 2127 NM_016131.2 |
| 2971.3 | 2475.4 | 2385 | 1456.5 NM_004663.3 |
| 89.2 | 100.1 | 96 | 95.5 NM_004218.1 |
| 85.6 | 94.9 | 81.4 | 77.5 NM_001002233.1 |
| 115 | 117.5 | 103.1 | 101.5 NM_025151.3 |
| 1941.4 | 2362.5 | 2036.2 | 1383.6 NM_001002814.1 |
| 321.1 | 290.2 | 232.8 | 244.3 NM_014904.1 |
| 321.1 | 357.9 | 404.6 | 221.3 NM_014700.2 |
| 80.4 | 95.6 | 81.7 | 95.8 NM_032932.3 |
| 345.5 | 273.3 | 264 | 176.4 NM_015470.1 |
| 100.9 | 93.6 | 86.8 | 92.9 NM_001025300.2 |
| 128.8 | 132.9 | 118.9 | 101.3 NM_002870.2 |
| 100.9 | 92 | 94 | 94.4 NM_016322.2 |
| 90.5 | 94.3 | 90.2 | 96 NM_198686.1 |
| 221 | 212.8 | 197.2 | 117.5 NM_022449.1 |
| 144.5 | 120.9 | 103.4 | 111.5 NM_021252.3 |
| 88.9 | 79 | 77.7 | 84.6 NM_001008749.1 |
| 328.1 | 326.1 | 296.9 | 267.1 NM_004161.3 |
| 199.7 | 183.9 | 153 | 155.5 NM_030981.1 |
| 530.6 | 320.3 | 308.8 | 289.2 NM_002865.1 |
| 121.9 | 134 | 117.7 | 124.7 NM_017817.1 |
| 368 | 321 | 285.8 | 300 NM_014999.1 |
| 426.9 | 731.8 | 715.2 | 582.6 NM_020673.2 |
| 92.6 | 88.2 | 91.7 | 85.6 NM_183227.1 |
| 83.3 | 88.2 | 79.1 | 91.6 NM_016277.3 |
| 951.3 | 764 | 636.9 | 536 NM_016277.3 |
| 154.7 | 195.8 | 198.9 | 141.4 NM_001031677.2 |
| 567.5 | 960.2 | 889.2 | 756.6 NM_001031677.2 |
| 224.7 | 369.5 | 411.3 | 277.8 NM_130781.1 |
| 118.7 | 113.3 | 109.8 | 106.8 NM_001031677.2 |
| 91.6 | 89.7 | 92 | 88.8 NM_020387.1 |
| 111.6 | 106.2 | 97.5 | 93.9 NM_014353.4 |
| 210 | 258.9 | 242.4 | 227.4 NM_004580.3 |
| 97.3 | 125.5 | 112.5 | 89.2 NM_183235.1 |
| 102.8 | 92 | 99.6 | 81.6 NM_183234.1 |
| 97.5 | 83.1 | 77.4 | 83.9 NM_004163.3 |
| 237.2 | 180.1 | 169.6 | 161.3 NM_004249.1 |
| 278.3 | 212.8 | 201.7 | 211 NM_001017979.1 |
| 1181.7 | 677.3 | 814 | 551.8 NM_032846.2 |
| 87.1 | 80.8 | 78.1 | 82.6 NM_014488.3 |
| 3454.9 | 6108.5 | 4309 | 3393.8 NM_006868.2 |
| 2174.7 | 2213.7 | 1614.9 | 1310.1 NM_006834.2 |
| 230.7 | 201.7 | 212 | 139.1 NM_004794.2 |
| 104.2 | 104.5 | 106.6 | 128.2 NM_031296.1 |
| 96.6 | 89.4 | 75.9 | 85.4 NM_031934.3 |

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| 393.1 | 407.9 | 480.3 | 249.5 NM_006861.4 |
| 75.5 | 78.7 | 68.5 | 74.6 NM_004914.2 |
| 129.8 | 204 | 221.6 | 221.2 NM_175738.3 |
| 98.5 | 156.8 | 154.9 | 131.1 NM_001006638.1 |
| 83.3 | 85.9 | 90.2 | 80.1 NM_175738.3 |
| 143 | 119.7 | 110 | 114 NM_022337.1 |
| 94 | 80.5 | 88.3 | 85.8 NM_017516.1 |
| 78.5 | 79.2 | 79.8 | 86.1 NM_171998.2 |
| 90.1 | 81.8 | 81.3 | 76.9 NM_002866.3 |
| 96 | 85 | 94.4 | 84.8 NM_002867.2 |
| 98.6 | 199 | 223 | 181.4 NM_138453.2 |
| 98.4 | 104.9 | 88.1 | 94.8 NM_004283.2 |
| 994.5 | 1420.9 | 1447.1 | 1103.5 NM_012233.1 |
| 593.6 | 443.7 | 419 | 268 NM_013401.2 |
| 169.3 | 234.4 | 285.9 | 259.7 NM_001024647.2 |
| 243 | 303.5 | 267.4 | 237.7 NM_175624.1 |
| 96.3 | 96 | 84 | 96.5 NM_080879.2 |
| 349.5 | 374.5 | 410.1 | 372.3 NM_006822.1 |
| 1961.7 | 1519.8 | 1714.6 | 823.5 NM_021168.2 |
| 85.5 | 80.8 | 82.9 | 87.4 NM_001032726.1 |
| 102.5 | 107 | 102 | 91.7 NM_152304.1 |
| 152.7 | 182.9 | 185.2 | 168.3 NM_198490.1 |
| 641 | 396.4 | 324.3 | 313.9 NM_004578.2 |
| 183.7 | 184.8 | 161.1 | 158.1 NM_016154.3 |
| 390.5 | 431.8 | 339.6 | 316.5 NM_004162.3 |
| 1090.7 | 1336.9 | 1203.3 | 957.4 NM_002868.2 |
| 412.7 | 548.6 | 490.4 | 408.5 NM_201434.1 |
| 434.3 | 406.7 | 352.1 | 283.2 NM_004583.2 |
| 104.1 | 97.9 | 81.7 | 94.9 NM_198896.1 |
| 122.4 | 121 | 109 | 116.5 NM_016577.2 |
| 91 | 86 | 73.5 | 82.7 NM_032144.2 |
| 920 | 801.8 | 779.5 | 645.5 NM_015213.2 |
| 80.9 | 83.3 | 80.2 | 83.6 NM_178040.1 |
| 3403 | 3701 | 3374.1 | 2264.5 NM_004637.5 |
| 600.3 | 789 | 636.9 | 483.9 NM_177403.3 |
| 614.8 | 452.9 | 412.5 | 388.9 NM_003929.1 |
| 1995.9 | 1261.1 | 1218.5 | 731.4 NM_005370.4 |
| 648 | 723.4 | 740.3 | 594.2 NM_016530.2 |
| 607.9 | 845.1 | 701.1 | 565.8 NM_004251.3 |
| 135.4 | 161.2 | 170.2 | 143.2 NM_016370.1 |
| 331 | 266.1 | 256.1 | 215.7 NM_006423.1 |
| 396 | 497.1 | 384.4 | 392.9 NM_004703.3 |
| 89 | 77.8 | 81.4 | 90.9 NM_024816.1 |
| 93.6 | 97.6 | 92.5 | 93.8 NM_024816.1 |
| 633.6 | 396.2 | 414.5 | 283 NM_005833.2 |
| 393.2 | 534.8 | 551.3 | 438.8 NM_012197.2 |
| 108.7 | 88.6 | 96.4 | 98 NM_014504.1 |
| 99.2 | 88.9 | 100.7 | 90.2 NM_004581.3 |
| 135.1 | 123.2 | 120.5 | 105.3 NM_182836.1 |
| 286.6 | 177.4 | 197.5 | 199.2 NM_004582.2 |

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| 97.1 | 103.5 | 99.8 | 90.2 NM_002871.3 |
| 99.6 | 103.1 | 109.6 | 94.5 NM_007082.2 |
| 126 | 107.2 | 118.6 | 103.1 NM_013412.1 |
| 244.2 | 269.5 | 257.8 | 203.8 NM_007081.2 |
| 436.7 | 374.1 | 307.7 | 283.6 NM_173825.2 |
| 261.3 | 238.9 | 205.2 | 196.9 NM_006860.2 |
| 94.1 | 95.6 | 90.5 | 84.3 NM_022777.1 |
| 6211.1 | 3941.2 | 3442 | 2779.8 NM_006908.3 |
| 90.4 | 88.9 | 77.5 | 83.7 NM_018890.2 |
| 87.4 | 77.2 | 87 | 87.4 NM_198829.1 |
| 5302.1 | 3912.9 | 3748.2 | 2519.5 NM_002872.3 |
| 224.3 | 229.2 | 200.3 | 219.9 NM_005052.2 |
| 674.8 | 467.3 | 430.6 | 340 NM_013277.2 |
| 148.8 | 121.4 | 130.3 | 124.7 NM_133377.2 |
| 84.8 | 74.9 | 78.1 | 80.7 NM_133377.2 |
| 90.3 | 87.8 | 86 | 93.9 NM_002873.1 |
| 174.7 | 180.4 | 168.7 | 169.7 NM_133340.1 |
| 101.2 | 92.7 | 91.1 | 89.1 NM_133343.1 |
| 105.4 | 102.3 | 101.3 | 104.8 NM_020165.2 |
| 1360.5 | 567 | 674.5 | 657.1 NM_006265.1 |
| 990.7 | 741.9 | 591.2 | 591.2 NM_005053.2 |
| 882.1 | 545.6 | 519.4 | 488.6 NM_002874.3 |
| 202.7 | 372 | 311.6 | 280.9 NM_005732.2 |
| 97.1 | 93.8 | 88.9 | 88.8 NM_005732.2 |
| 271.1 | 236.1 | 250.8 | 193.5 NM_133487.1 |
| 159.2 | 145.1 | 141 | 125.9 NM_133487.1 |
| 199.9 | 167.3 | 155.6 | 134.7 NM_002875.2 |
| 834.8 | 612 | 598.4 | 520 NM_006479.2 |
| 1151.7 | 804.1 | 660.4 | 556.5 NM_058216.1 |
| 81.6 | 85.6 | 89 | 86.9 NM_002876.2 |
| 1272.7 | 814.6 | 681.6 | 632 NM_002876.2 |
| 96.1 | 91.6 | 92.4 | 89.7 NM_133509.2 |
| 84.3 | 93.6 | 81.9 | 90.9 NM_002877.4 |
| 92.9 | 90.1 | 75 | 93 NM_133510.2 |
| 156 | 129.7 | 124 | 119.6 NM_002878.2 |
| 98.9 | 91.4 | 89.2 | 94.9 NM_002878.2 |
| 149.4 | 116.7 | 110.9 | 112.5 NM_002878.2 |
| 99.7 | 91.7 | 83.3 | 90.7 NM_134422.1 |
| 94.8 | 80.8 | 84.7 | 78.2 NM_145654.2 |
| 87.7 | 87 | 77 | 82.5 NM_012415.2 |
| 332.2 | 262.7 | 199.5 | 206.2 NM_012415.2 |
| 169.8 | 169.6 | 181.4 | 173.6 NM_003579.2 |
| 386.2 | 269.3 | 251 | 220.8 NM_004584.2 |
| 96.5 | 90.7 | 86.9 | 92.5 NM_152442.2 |
| 188.8 | 119.2 | 123.7 | 104.1 NM_003610.3 |
| 78 | 79.2 | 75 | 87.2 NM_001015885.1 |
| 1474 | 972.4 | 910 | 600.3 NM_003610.3 |
| 96.9 | 88.1 | 91.9 | 88.3 NM_139165.1 |
| 97.2 | 83.9 | 82.8 | 88 NM_001001788.1 |
| 94.5 | 93.9 | 91.5 | 94.2 NM_130900.2 |

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| 584.2 | 606.1 | 576.1 | 407.1 NM_002880.2 |
| 315.5 | 258.8 | 271 | 220.5 NM_015150.1 |
| 85.6 | 87.4 | 82 | 84.8 NM_000448.1 |
| 129.6 | 104.4 | 111.6 | 89.3 NM_018845.1 |
| 89.7 | 75 | 76.6 | 78.9 NM_000536.1 |
| 135 | 111.4 | 124 | 112.4 NM_014226.1 |
| 239.1 | 252.4 | 283.1 | 148.2 NM_030665.3 |
| 381.1 | 275 | 234.3 | 189 NM_015577.1 |
| 111.8 | 102.6 | 98.2 | 96.9 NM_022749.4 |
| 570.1 | 530.6 | 562 | 398.2 NM_020338.2 |
| 1411.3 | 1687.1 | 1517.9 | 1127.1 NM_005402.2 |
| 2301.2 | 1510.4 | 1277.7 | 951 NM_002881.2 |
| 262.7 | 284 | 301.9 | 267.1 NM_006788.3 |
| 85.2 | 79.3 | 83.8 | 88.7 NM_006266.2 |
| 1188.2 | 1026 | 1089.8 | 517.4 NM_006266.2 |
| 88.2 | 114.7 | 141.5 | 126.4 NM_014636.1 |
| 91.8 | 94.7 | 95.8 | 93 NM_018037.1 |
| 93.2 | 88.9 | 91.7 | 100.3 NM_018037.1 |
| 87.9 | 87.4 | 88.4 | 86.9 NM_152663.2 |
| 758.2 | 895.9 | 764.7 | 672 NM_007367.2 |
| 1381.2 | 1599.6 | 1325.8 | 1284.4 NM_016732.1 |
| 86.5 | 86.4 | 88.7 | 86.5 NM_005855.2 |
| 115.5 | 120 | 113.6 | 100.5 NM_005854.2 |
| 100.5 | 91.8 | 81.5 | 98.7 NM_005856.2 |
| 735 | 560.9 | 372 | 363.3 NM_006325.2 |
| 2213.6 | 1540.7 | 1563.8 | 1279.7 NM_002882.2 |
| 232.1 | 230.7 | 207.9 | 211 NM_020850.1 |
| 92.3 | 95.6 | 80.9 | 91.4 NM_022897.2 |
| 84.4 | 103.2 | 101.6 | 110.5 NM_006267.3 |
| 547.4 | 366.9 | 362.4 | 276.4 NM_007320.1 |
| 223.3 | 147.4 | 147.5 | 119.7 NM_003624.1 |
| 88.8 | 83.3 | 85.9 | 92.6 NM_145000.2 |
| 228.8 | 179.3 | 157.5 | 140.3 NM_002271.4 |
| 96 | 90.5 | 92.6 | 94.1 NM_012416.2 |
| 95.8 | 100.8 | 96.1 | 89.3 NM_005493.2 |
| 2065.8 | 1138.4 | 1184.1 | 463.6 NM_002883.2 |
| 90.7 | 90.6 | 77.6 | 96.2 NM_016492.3 |
| 178.8 | 132.2 | 118.1 | 122.1 NM_002884.2 |
| 181.7 | 142.4 | 156.5 | 150 NM_001010935.1 |
| 90.9 | 93.3 | 77.5 | 79.9 NM_015646.4 |
| 211.5 | 186.6 | 175.5 | 201.7 NM_001010942.1 |
| 174.7 | 209.2 | 210.4 | 137.5 NM_002885.1 |
| 337.1 | 186.8 | 159.6 | 196.6 NM_021159.3 |
| 287 | 93.4 | 96.1 | 90.6 NM_021033.4 |
| 90.2 | 96.2 | 83.9 | 88.3 NM_002886.2 |
| 230.2 | 156.4 | 127.2 | 168.1 NM_021183.3 |
| 1214.1 | 1523 | 1448.7 | 872.8 NM_016290.3 |
| 95.6 | 111.6 | 104.9 | 94.4 NM_005312.2 |
| 916.3 | 1245.3 | 1182.5 | 542.2 NM_005312.2 |
| 76.2 | 106.1 | 132 | 118.2 NM_198679.1 |

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| 82.3 | 85.9 | 88.2 | 90.4 NM_006105.3 |
| 97.5 | 100.2 | 86.7 | 85.9 NM_007023.1 |
| 341.4 | 444.9 | 390.1 | 378.6 NM_016340.3 |
| 125.3 | 133.6 | 132.6 | 112.7 NM_016339.1 |
| 88.5 | 83.7 | 78 | 86.6 NM_203365.2 |
| 94.6 | 93.3 | 95.7 | 93.3 NM_025252.3 |
| 97.6 | 92.4 | 91.5 | 85.7 NM_025252.3 |
| 99.4 | 91.3 | 85.2 | 97 NM_213589.1 |
| 117.6 | 116.3 | 114.4 | 107 NM_032645.3 |
| 93.6 | 84.7 | 87.1 | 84.2 NM_005055.3 |
| 98.4 | 98.1 | 99.2 | 100.9 NM_020761.1 |
| 100.9 | 111 | 98.7 | 99.3 NM_000964.2 |
| 903.1 | 1156.2 | 994.6 | 810.3 NM_001024809.2 |
| 92.1 | 84 | 77.8 | 91.9 NM_001024809.2 |
| 109 | 126.5 | 106.4 | 93.4 NM_000965.2 |
| 85.3 | 87.4 | 83 | 96.4 NM_000965.2 |
| 98.8 | 87.6 | 78.7 | 100 NM_016152.2 |
| 93.1 | 103.3 | 99.5 | 87.2 NM_000966.3 |
| 85.5 | 87.7 | 85.5 | 80.8 NM_002888.2 |
| 108.6 | 95.9 | 95 | 99.8 NM_206963.1 |
| 107 | 100.2 | 98.4 | 97.1 NM_002888.2 |
| 89.3 | 83.8 | 88.2 | 94.9 NM_002889.2 |
| 135.2 | 123.8 | 119.4 | 126.2 NM_004585.2 |
| 2121 | 1704.6 | 1402.9 | 1304.4 NM_002887.3 |
| 961.1 | 1027.4 | 878.3 | 764.3 NM_020320.2 |
| 88.3 | 76.3 | 76.4 | 81 NM_002890.1 |
| 504.2 | 619.8 | 669.5 | 559.4 NM_002890.1 |
| 87.4 | 86.1 | 90.4 | 85.2 NM_022650.1 |
| 135.9 | 123.9 | 114.9 | 114.4 NM_006506.2 |
| 177.9 | 151.5 | 145.3 | 134.8 NM_007368.2 |
| 88.7 | 98.6 | 96.1 | 104.8 NM_006989.3 |
| 96.4 | 102.4 | 93.9 | 90.9 NM_004658.1 |
| 139.3 | 142.7 | 135.7 | 123.4 NM_170692.1 |
| 95.2 | 94.2 | 85.3 | 79.8 NM_170692.1 |
| 80.1 | 85.2 | 73.5 | 83.1 NM_004841.2 |
| 91.5 | 96.2 | 81.2 | 88.6 NM_016084.3 |
| 133.5 | 129.4 | 108.1 | 102.6 NM_014310.3 |
| 95.2 | 84.5 | 78.7 | 90.6 NM_152573.2 |
| 84.1 | 88.1 | 83.9 | 89.4 NM_145313.1 |
| 88.3 | 79.5 | 83.1 | 75.2 NM_152545.1 |
| 89.3 | 98.8 | 84.4 | 94.9 NM_175062.3 |
| 79.4 | 91.8 | 73.5 | 83.8 NM_001031799.1 |
| 95.3 | 92.2 | 89.2 | 91.7 NM_001031799.1 |
| 98.7 | 92.6 | 96.2 | 94 NM_002891.3 |
| 105.5 | 86.5 | 94.1 | 82.3 NM_153815.1 |
| 86.6 | 77.8 | 81.2 | 87.8 NM_006909.1 |
| 100.1 | 85.1 | 85.5 | 95.8 NM_005739.2 |
| 706 | 526.9 | 592.6 | 414.3 NM_005825.2 |
| 427.3 | 344.9 | 362.2 | 213.8 NM_005825.2 |
| 168.8 | 105.6 | 110.3 | 108.6 NM_005825.2 |

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| 95.5 | 95.1 | 89.3 | 87.7 NM_170672.1 |
| 100.9 | 104.7 | 95.4 | 103.9 NM_170603.1 |
| 102.4 | 100.7 | 101.6 | 104.8 NM_170604.1 |
| 77.8 | 78.3 | 68 | 76.9 NM_170604.1 |
| 95.3 | 97.9 | 97.6 | 95.4 NM_017805.2 |
| 92.5 | 84.6 | 85.2 | 86.2 NM_033315.2 |
| 111.4 | 100.8 | 97 | 94.7 NM_206827.1 |
| 165.3 | 82.3 | 93.8 | 88.5 NM_023940.2 |
| 89.8 | 91.7 | 75.3 | 89.9 NM_016563.2 |
| 494.2 | 346.8 | 324.6 | 266.3 NM_007182.4 |
| 594.5 | 426.8 | 387.5 | 327.2 NM_007182.4 |
| 83 | 75.4 | 79 | 82.6 NM_170712.1 |
| 213.1 | 170.7 | 169.7 | 159.4 NM_170713.1 |
| 504.7 | 717.7 | 523.3 | 803.1 NM_170774.1 |
| 102.2 | 95.2 | 94 | 88.5 NM_014737.1 |
| 1285.3 | 1633 | 1364.1 | 1329.1 NM_170773.1 |
| 85.6 | 88.6 | 82.1 | 85.4 NM_178169.2 |
| 191.1 | 166.4 | 164.1 | 131.8 NM_178145.1 |
| 105.7 | 101.2 | 106.5 | 94.1 NM_032023.3 |
| 112.4 | 97.9 | 78.3 | 91.2 NM_182664.2 |
| 105.8 | 89 | 87.4 | 90.2 NM_182665.1 |
| 1088.8 | 839.7 | 558.2 | 581.3 NM_182664.2 |
| 142.5 | 146.3 | 137.2 | 127.4 NM_177532.3 |
| 85.8 | 81 | 81.6 | 82.5 NM_201431.1 |
| 80.5 | 81.4 | 85.2 | 84.1 NM_177532.3 |
| 938.1 | 1006.8 | 1015.9 | 495.2 NM_003475.2 |
| 90.1 | 100.7 | 90.6 | 91.3 NM_007211.2 |
| 501 | 396.7 | 330.4 | 332.2 NM_133452.1 |
| 141.7 | 155.2 | 124.1 | 123.8 NM_018211.2 |
| 87.7 | 96.8 | 91 | 89.4 NM_013435.1 |
| 213 | 394.5 | 527 | 310.4 NM_032753.2 |
| 85 | 83.3 | 77 | 84.4 NM_001008494.1 |
| 320.7 | 322.4 | 239.5 | 246.9 NM_000321.1 |
| 594.6 | 682.7 | 570.6 | 547.9 NM_014781.3 |
| 889.1 | 944.2 | 894.4 | 696.3 NM_020765.1 |
| 102.3 | 114.8 | 104.7 | 111.3 NM_021163.2 |
| 135.3 | 119.8 | 121.8 | 122.8 NM_005610.1 |
| 461.2 | 382.7 | 303 | 297.6 NM_005057.2 |
| 81.2 | 83.4 | 80.7 | 84.1 NM_006910.4 |
| 93.1 | 76.1 | 81.7 | 82.4 NM_032626.5 |
| 89.7 | 83.6 | 84 | 90.6 NM_032626.5 |
| 476.3 | 277.8 | 305 | 297.5 NM_002893.2 |
| 96.3 | 95.7 | 89.5 | 87.4 NM_002894.2 |
| 94.4 | 89.8 | 77.8 | 85.1 NM_203292.1 |
| 1112.8 | 1189.5 | 862 | 846.8 NM_203291.1 |
| 98.9 | 86.9 | 85.8 | 81.7 NM_006606.2 |
| 157.2 | 147.8 | 153 | 140.2 NM_006606.2 |
| 417.2 | 328.1 | 318.7 | 262.7 NM_006462.3 |
| 325.4 | 262.8 | 219.6 | 228.4 NM_006462.3 |
| 132.4 | 123.7 | 121.1 | 121 NM_032213.3 |

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|--------|--------|--------|--------|----------------|
| 176.6 | 157.5 | 161.2 | 142.8 | NM_016544.1 |
| 244.3 | 185.7 | 187.6 | 169.3 | NM_022128.1 |
| 103.7 | 101.1 | 89.3 | 93.7 | NM_183404.1 |
| 257.4 | 238.3 | 204.1 | 144.8 | NM_002895.2 |
| 623.4 | 964.6 | 823.1 | 799.4 | NM_005611.2 |
| 205.3 | 209.3 | 227 | 155.6 | NM_005676.3 |
| 2397.4 | 2138.4 | 2099.6 | 1237.8 | NM_152856.1 |
| 91.9 | 93.5 | 93.5 | 102.4 | NM_005676.3 |
| 94.6 | 91.4 | 89.2 | 91.7 | NM_144770.2 |
| 171.2 | 184.3 | 151 | 160.9 | NM_006047.4 |
| 633.5 | 482.7 | 412.9 | 371.2 | NM_006047.4 |
| 230.6 | 217 | 244.8 | 185 | NM_203390.1 |
| 777.9 | 388.8 | 350.8 | 272.4 | NM_032509.2 |
| 2075.3 | 1850 | 1572.8 | 762.8 | NM_006328.2 |
| 897.9 | 809.8 | 674.8 | 635 | NM_022768.4 |
| 107.7 | 116.9 | 101.5 | 86.2 | NM_013286.3 |
| 663.4 | 538.1 | 477.1 | 469.9 | NM_032905.3 |
| 307 | 233.2 | 193.1 | 219 | NM_033117.2 |
| 87.3 | 96.2 | 99.6 | 94.4 | NM_016196.1 |
| 199.2 | 167.5 | 156.4 | 126.7 | NM_022830.1 |
| 4523.2 | 3362.9 | 3196.1 | 2109.1 | NM_018047.1 |
| 914.8 | 603.5 | 513.9 | 364.3 | NM_018107.3 |
| 1583 | 1114.2 | 859.2 | 841.9 | NM_001077352.1 |
| 82.4 | 80 | 72.8 | 88.8 | NM_153020.1 |
| 612.5 | 550.6 | 656.2 | 501.8 | NM_021239.1 |
| 310.7 | 372.4 | 296.3 | 256.3 | NM_018077.1 |
| 105.5 | 98.6 | 114.1 | 90.5 | NM_001017430.1 |
| 101.3 | 124.8 | 133.7 | 125.3 | NM_001017430.1 |
| 464 | 705.9 | 995 | 440.3 | NM_001008408.1 |
| 530.3 | 346.2 | 325.8 | 397.8 | NM_015014.1 |
| 93.7 | 82.6 | 91.4 | 88.5 | NM_024939.2 |
| 252.2 | 262.7 | 222.1 | 257.8 | NM_183425.1 |
| 999.7 | 964.9 | 1036.3 | 733.4 | NM_184234.1 |
| 397.5 | 337.1 | 299.2 | 288.5 | XM_945490.1 |
| 941.8 | 750.1 | 764.4 | 538.6 | NM_002896.1 |
| 311.7 | 209.9 | 194 | 156.2 | NM_002896.1 |
| 95.8 | 88.3 | 78.5 | 87.8 | NM_018301.2 |
| 601.7 | 491.7 | 505.3 | 316.3 | NM_031492.2 |
| 1615.3 | 1599.8 | 1811.9 | 1174 | NM_005778.1 |
| 338.2 | 433.4 | 448.9 | 390.8 | NM_005777.1 |
| 188.2 | 144.8 | 143.3 | 152.9 | NM_016090.2 |
| 109.4 | 112.8 | 90.1 | 92.1 | NM_005105.2 |
| 249.3 | 245.8 | 220.3 | 194.3 | NM_001031695.1 |
| 95.8 | 93.4 | 94.6 | 91.5 | NM_014309.1 |
| 594.6 | 665.9 | 531.6 | 484.8 | NM_002897.3 |
| 86.6 | 92.3 | 81.5 | 88.1 | NM_016839.2 |
| 107.6 | 102.2 | 102.7 | 93.3 | NM_002898.2 |
| 91.5 | 79.8 | 82.6 | 82.7 | NM_001003793.1 |
| 95 | 91.6 | 89.2 | 88.7 | NM_014483.2 |
| 85.7 | 84.6 | 82.8 | 80.8 | NM_014483.2 |

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| 1723.4 | 1088.3 | 923.2 | 768.5 NM_002139.2 |
| 231 | 179.3 | 172.8 | 193.9 NM_016024.2 |
| 90.6 | 79.4 | 86.6 | 84.1 NM_019610.3 |
| 78 | 72.1 | 77.4 | 79.6 NM_005058.2 |
| 95.5 | 88.8 | 85.6 | 91.4 NM_001007526.1 |
| 85.8 | 85.5 | 90.2 | 91.4 NR_001547.1 |
| 93.1 | 81.9 | 81.8 | 96.8 NM_001006121.1 |
| 91.4 | 87.6 | 90.3 | 92.6 NM_001006118.2 |
| 98.8 | 90.7 | 87.1 | 89.2 NM_152585.1 |
| 83.9 | 81.9 | 85.1 | 94.7 NM_001006117.2 |
| 98.4 | 85.1 | 84.4 | 88.3 NR_001574.1 |
| 92.6 | 82.6 | 90.6 | 103.9 NR_002193.1 |
| 83.1 | 94.8 | 93 | 85.9 NM_002899.2 |
| 94.8 | 97.4 | 98.3 | 94 NM_004164.2 |
| 81.1 | 84.9 | 80.9 | 92.1 NM_002900.2 |
| 84 | 89.2 | 90.7 | 84.6 NM_006744.3 |
| 104.6 | 91.1 | 96.2 | 98.8 NM_031491.1 |
| 104.6 | 113.6 | 99.7 | 106.5 NM_052960.1 |
| 106.8 | 95 | 85.3 | 104.1 NM_203283.1 |
| 104.3 | 92.9 | 99 | 97.4 NM_001008712.1 |
| 95.7 | 86.4 | 90.7 | 88.8 NM_001008711.1 |
| 77.3 | 85.7 | 79.1 | 87 NM_006867.2 |
| 151.8 | 171.4 | 149.5 | 118.3 NM_194272.1 |
| 92.9 | 89.8 | 87.2 | 100.2 NM_005349.2 |
| 924.2 | 588.9 | 574.2 | 534.2 NM_203284.1 |
| 107 | 105.6 | 108.9 | 120.4 NM_014276.2 |
| 1869 | 1427.5 | 1288.9 | 1110.1 NM_014248.2 |
| 72.1 | 87.6 | 77.8 | 73 NM_172071.1 |
| 926.5 | 599.2 | 608.2 | 302.1 NM_018250.1 |
| 131.7 | 134.9 | 119.7 | 133 NM_018191.3 |
| 376.4 | 446.9 | 355 | 354.9 NM_001268.2 |
| 175.7 | 200.6 | 157.5 | 170 NM_001269.3 |
| 3951.5 | 3432.1 | 3462.9 | 1703.8 NM_018715.1 |
| 107.9 | 104.5 | 95.9 | 88.2 NM_033544.2 |
| 105 | 93.6 | 87.6 | 102.7 NM_033544.2 |
| 231.2 | 214.7 | 246.3 | 198.5 NM_001017919.1 |
| 1380.7 | 1000.8 | 969.8 | 504.5 NM_014329.3 |
| 466.7 | 344.4 | 286.5 | 248.1 NM_001032279.1 |
| 162.1 | 143.5 | 147.1 | 147.8 NM_001032279.1 |
| 170.4 | 145.1 | 127.2 | 115.5 NM_015436.2 |
| 83.7 | 87.1 | 78.7 | 79 NM_001009922.1 |
| 387.1 | 247.6 | 232.7 | 174.9 NM_005772.2 |
| 112.3 | 99.9 | 101.9 | 105.1 NM_002901.1 |
| 83.1 | 84.1 | 77.3 | 86.9 NM_002902.1 |
| 109.9 | 163.8 | 179 | 136.7 NM_020650.2 |
| 101.9 | 98.7 | 87.2 | 96.5 NM_015156.1 |
| 161 | 114.7 | 116.3 | 95.5 NM_173587.2 |
| 601.9 | 647.8 | 610.4 | 553.8 NM_018254.2 |
| 607 | 951.5 | 1200.4 | 657.2 NM_014478.3 |
| 99 | 100.2 | 92.1 | 93.5 NM_014478.3 |

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| 86.2 | 71.6 | 76.3 | 75.9 | NM_014478.3 |
| 365.5 | 263.7 | 276.9 | 233.6 | NM_052862.2 |
| 96.6 | 112 | 91 | 101.8 | NM_002903.2 |
| 335.5 | 269.7 | 263.4 | 202.3 | NM_002904.5 |
| 463.9 | 397.9 | 295 | 321.3 | NM_172037.2 |
| 292.2 | 197.2 | 212.8 | 149.9 | NM_016026.2 |
| 92.8 | 85.7 | 81.9 | 93.1 | NM_152443.1 |
| 276.6 | 218.6 | 222.3 | 179.5 | NM_138412.2 |
| 1742.9 | 1347.6 | 1206.2 | 1060.9 | NM_020905.1 |
| 85.1 | 78.8 | 80.4 | 80.9 | NM_003708.2 |
| 165.8 | 155.8 | 190.8 | 135 | NM_002905.2 |
| 91.6 | 95.6 | 80.5 | 90.7 | NM_015725.1 |
| 92.1 | 80.1 | 83.3 | 86.3 | NM_138969.2 |
| 103 | 110 | 103.1 | 96.7 | NM_001034836.1 |
| 106.4 | 99.8 | 96.8 | 100.5 | NM_000322.2 |
| 260.5 | 222.4 | 252.3 | 176 | NM_005132.1 |
| 128.7 | 128.4 | 110.8 | 118.3 | NM_005132.1 |
| 178.7 | 137.3 | 147.7 | 150 | NM_021111.1 |
| 228.3 | 238.6 | 196.5 | 197.2 | NM_002907.2 |
| 347.4 | 290.5 | 244.9 | 285.3 | NM_032941.1 |
| 372.3 | 288.8 | 282 | 299.1 | NM_004260.1 |
| 104.9 | 99.4 | 96.2 | 93.2 | NM_001003715.1 |
| 128.2 | 138.3 | 137 | 134.9 | NM_004259.4 |
| 104.3 | 103.1 | 91.8 | 95.5 | NM_001003716.1 |
| 111 | 93.3 | 94 | 92.8 | NM_022912.1 |
| 76.9 | 75.3 | 70.9 | 82.9 | NM_016606.2 |
| 121.6 | 99.6 | 89.6 | 107.6 | NM_001001330.1 |
| 288.7 | 176.5 | 160.6 | 149.1 | NM_025232.2 |
| 712.3 | 644.9 | 632 | 523.5 | NM_005669.3 |
| 345.8 | 284.7 | 337.7 | 198.1 | NM_138393.1 |
| 90.4 | 85.2 | 83.7 | 87.3 | NM_002909.3 |
| 87.7 | 88.4 | 85.7 | 81.6 | NM_006507.2 |
| 77.9 | 85.8 | 75.8 | 83.1 | NM_138938.1 |
| 97.1 | 91.5 | 94.9 | 90.9 | NM_138937.1 |
| 97.7 | 91 | 87.9 | 80.4 | NM_001008387.1 |
| 94 | 97.5 | 90.3 | 94.3 | NM_001008387.1 |
| 100.3 | 83.7 | 90.5 | 91.5 | NM_032044.2 |
| 111.9 | 115.3 | 105.7 | 101.3 | NM_002908.2 |
| 156.4 | 160.6 | 137.5 | 133.2 | NM_021975.2 |
| 162.6 | 143.7 | 149.3 | 185.9 | NM_006509.2 |
| 88.7 | 78.2 | 74.9 | 79.9 | NM_005045.2 |
| 98.9 | 104.6 | 92.9 | 99.7 | NM_005045.2 |
| 90.2 | 91.9 | 86.2 | 86.6 | NM_014012.4 |
| 90.1 | 98.6 | 102.8 | 84.2 | NM_000537.2 |
| 369.1 | 634.5 | 579.9 | 398.7 | NM_002910.4 |
| 273.1 | 205.8 | 213.7 | 175.4 | NM_002911.2 |
| 88 | 94.6 | 86.2 | 91.8 | NM_001029874.1 |
| 96.5 | 94 | 85.8 | 101.6 | NM_013400.1 |
| 105.8 | 122.3 | 124.6 | 98.7 | NM_014374.1 |
| 969.8 | 1473.6 | 1575.3 | 703.8 | NM_014374.1 |

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| 167 | 161.9 | 144.6 | 147.6 NM_031922.2 |
| 99.3 | 107.7 | 104.2 | 101.3 NM_004726.1 |
| 96.6 | 108.1 | 104.4 | 94.7 NM_001080975.1 |
| 99.4 | 88.2 | 91 | 90.9 XM_942570.1 |
| 87.3 | 140.4 | 148.8 | 135.1 XM_942570.1 |
| 89.8 | 83.6 | 91.6 | 89.2 NM_004726.1 |
| 118.6 | 115.4 | 121 | 116.7 NM_007033.2 |
| 168 | 326.7 | 289.5 | 258 NM_012102.2 |
| 84.5 | 77.8 | 77.7 | 79.8 NM_012102.3 |
| 113.9 | 141.2 | 130.2 | 117 NM_012102.3 |
| 79.2 | 69.5 | 80.3 | 79.8 NM_032918.1 |
| 92.1 | 87.6 | 75.7 | 93 NM_001007089.1 |
| 113.7 | 98.9 | 102 | 108.4 NM_005612.3 |
| 1333.6 | 646.3 | 737.4 | 313.6 NM_020630.3 |
| 175.2 | 187.2 | 155.9 | 168 NM_020975.3 |
| 684.1 | 398.2 | 325.3 | 284.7 NM_020630.3 |
| 86.8 | 87.6 | 83.2 | 86 NM_020415.2 |
| 104.3 | 89 | 89.5 | 90 NM_032579.1 |
| 176.2 | 120.1 | 127.7 | 124.3 NM_017750.2 |
| 317.8 | 339.4 | 295.5 | 284.5 NM_001037872.1 |
| 445.6 | 449.6 | 401.2 | 336.4 NM_016316.1 |
| 150.3 | 174.8 | 169.6 | 162.9 NM_002912.1 |
| 206.6 | 181 | 175.2 | 121.3 NM_020695.2 |
| 83.5 | 82.5 | 70.2 | 75.6 NM_172239.1 |
| 1148.7 | 888.7 | 796.3 | 717.9 NM_015523.1 |
| 348.5 | 301 | 325.4 | 180.4 NM_020385.2 |
| 509.5 | 585.5 | 567.1 | 418.8 NM_002913.3 |
| 157.6 | 135.2 | 152.6 | 122.6 NM_002914.3 |
| 276.3 | 228.5 | 231.5 | 217.7 NM_181471.1 |
| 555 | 363.1 | 265.9 | 272.7 NM_181558.1 |
| 403.3 | 270.2 | 236.8 | 177.4 NM_002915.2 |
| 207.2 | 183.3 | 168.6 | 145.3 NM_181558.1 |
| 1061.4 | 917.7 | 880.9 | 898.5 NM_002916.3 |
| 1908.7 | 1797.4 | 1436.5 | 1340.9 NM_002916.3 |
| 1097.6 | 899.8 | 674.9 | 503.7 NM_007370.3 |
| 97.4 | 101.4 | 95.2 | 88 NM_181578.1 |
| 183.4 | 173.9 | 128.7 | 132.4 NM_173362.2 |
| 87.9 | 83.7 | 84.8 | 84.8 NM_057178.3 |
| 84.5 | 79.3 | 77.2 | 82.5 NM_001017368.1 |
| 90.3 | 94.8 | 74.1 | 93.2 NM_018339.3 |
| 117.1 | 115.7 | 97.7 | 102.5 XM_941367.1 |
| 560.7 | 524.4 | 442.8 | 409.6 NM_002917.1 |
| 90.2 | 100.3 | 89.4 | 88.6 NM_002917.1 |
| 169.8 | 161.5 | 140.7 | 141.9 NM_006510.3 |
| 102.7 | 102.5 | 106 | 105.4 NM_213590.1 |
| 119.9 | 99.8 | 97.6 | 100.5 NR_002727.1 |
| 92.8 | 88.1 | 92.3 | 91.2 NR_001450.2 |
| 89.8 | 87.5 | 87.2 | 92 NR_002596.1 |
| 81.9 | 87.4 | 87.2 | 83.1 NM_001013734.1 |
| 95.4 | 95.5 | 84.2 | 94.8 NM_052859.2 |

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| 2203.2 | 1767.2 | 1449 | 1260.6 | NM_022457.5 |
| 102.9 | 85.8 | 100.6 | 80.6 | NM_022457.5 |
| 1520.5 | 1210.7 | 1053.3 | 908.8 | NM_022457.5 |
| 1005.1 | 751.4 | 688.4 | 331.8 | NM_018124.3 |
| 218.4 | 164.8 | 166.1 | 138.9 | NM_002918.3 |
| 113 | 107.2 | 110.9 | 99.6 | NM_134433.1 |
| 115.1 | 113.4 | 109.7 | 106.6 | NM_000635.2 |
| 85.4 | 99.5 | 85.9 | 86.2 | NM_134428.1 |
| 114.5 | 98.1 | 99.7 | 111.8 | NM_134428.1 |
| 101.9 | 87.7 | 89.8 | 84.7 | NM_002919.2 |
| 80.8 | 80.2 | 84.6 | 89.8 | NM_002920.3 |
| 75.7 | 86.4 | 79 | 71.6 | NM_213594.1 |
| 88.3 | 88.4 | 88.5 | 92 | NM_032491.3 |
| 83.1 | 84 | 81.4 | 87.7 | NM_002920.3 |
| 88.2 | 85 | 75.2 | 80 | NM_000449.3 |
| 1573.8 | 1542.3 | 1264.3 | 1232.4 | NM_000449.3 |
| 454 | 319 | 301.3 | 233.1 | NM_134440.1 |
| 143 | 136 | 122.2 | 109.2 | NM_003721.2 |
| 1636 | 1201.2 | 1042.8 | 805.3 | NM_003721.2 |
| 82.3 | 88.3 | 75.9 | 97.2 | NM_000538.2 |
| 97.4 | 107.3 | 99.3 | 93.7 | NM_173560.1 |
| 97.1 | 118.3 | 91.9 | 110.5 | NM_022841.2 |
| 267.3 | 184.7 | 172.9 | 225.7 | NM_017819.1 |
| 119 | 126.4 | 117.2 | 104.4 | NM_152292.2 |
| 189.8 | 161.4 | 171.7 | 153.3 | NM_144964.1 |
| 91.2 | 82.1 | 87.7 | 91.5 | NM_020769.1 |
| 96.5 | 99.8 | 92.7 | 97 | NM_001024455.1 |
| 120.7 | 102.2 | 102.5 | 94.8 | XM_936417.1 |
| 417.7 | 308.9 | 284.3 | 205.6 | NM_014059.1 |
| 125.6 | 317.1 | 257.6 | 246.2 | NM_015149.2 |
| 224.2 | 245.2 | 237.6 | 202.2 | NM_004761.2 |
| 82.1 | 84.9 | 79.7 | 82.4 | NM_001035223.1 |
| 137.2 | 178.7 | 169.9 | 141.4 | NM_020211.1 |
| 101 | 87.7 | 95.9 | 88.9 | NM_173670.2 |
| 96.9 | 87.1 | 82.5 | 86.3 | NM_001012761.1 |
| 97.3 | 101 | 95.1 | 90 | NM_173670.2 |
| 93.6 | 101.6 | 91.5 | 93 | NM_152869.2 |
| 86.7 | 85.9 | 84.8 | 84.3 | XM_937211.1 |
| 89.3 | 92.5 | 85.9 | 78.5 | XM_943466.1 |
| 84 | 92.3 | 81.8 | 83.1 | NM_001080479.1 |
| 170.6 | 235.7 | 284 | 193.9 | NM_001024457.1 |
| 106.8 | 125.3 | 107.9 | 140.7 | NM_001078170.1 |
| 92.6 | 86.7 | 88.3 | 92 | NM_005054.2 |
| 95.1 | 85.5 | 98.4 | 93.8 | NM_005054.2 |
| 86.6 | 86.6 | 79.5 | 84.6 | NM_032260.2 |
| 82.2 | 104.8 | 98.5 | 92.3 | NM_001037866.1 |
| 86.1 | 81.7 | 76.6 | 84.5 | NM_001012722.1 |
| 105.7 | 111.9 | 110.2 | 110.8 | NM_001012720.1 |
| 111.2 | 116.4 | 101.4 | 108.7 | NM_153615.1 |
| 86.7 | 91 | 83.7 | 87.1 | NM_002922.3 |

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| 441 | 278.8 | 242.9 | 231.8 NM_001005339.1 |
| 990.5 | 686 | 622.7 | 403 NM_002925.3 |
| 79.2 | 75.7 | 74.8 | 77.2 NM_002925.3 |
| 91.8 | 79.3 | 90.3 | 95.3 NM_183337.1 |
| 91.2 | 76.5 | 93 | 85.2 NM_183337.1 |
| 96.7 | 87.8 | 95.3 | 93.2 NM_198227.1 |
| 338.6 | 367.3 | 383.4 | 246.8 NM_002926.2 |
| 87.7 | 88.6 | 83.6 | 86.6 NM_198229.2 |
| 92.5 | 82.9 | 82.9 | 87.2 NM_144766.1 |
| 131.9 | 145.5 | 141.8 | 124.7 NM_006480.4 |
| 124.1 | 122.5 | 109.1 | 111.9 NM_002928.2 |
| 114.4 | 114 | 123.6 | 119.3 NM_012419.4 |
| 602.9 | 565.9 | 410.7 | 390.5 NM_130782.2 |
| 1094.5 | 1353.7 | 1068.8 | 1002.7 NM_005873.1 |
| 213.4 | 192.6 | 145.7 | 168.9 NM_002923.1 |
| 91 | 90.1 | 87.3 | 90.1 NM_170587.1 |
| 107.8 | 150.3 | 143.3 | 128.6 NM_170587.1 |
| 89.4 | 86.6 | 82.4 | 89.1 NM_015668.2 |
| 87.2 | 88.7 | 90.4 | 86 NM_134427.1 |
| 94.3 | 83.6 | 73.6 | 90 NM_144488.3 |
| 87 | 85.9 | 75.2 | 76.5 NM_130795.2 |
| 83.7 | 79 | 74.2 | 79.3 NM_021106.3 |
| 80.7 | 74 | 86.4 | 84.4 NM_017790.3 |
| 101.2 | 95.6 | 96.8 | 98.2 NM_144489.2 |
| 95.9 | 97.6 | 88.7 | 93 NM_005613.3 |
| 98.4 | 92 | 103.2 | 99.9 NM_003617.2 |
| 111.1 | 106.9 | 90.7 | 96 NM_004296.3 |
| 87.1 | 74.5 | 82.7 | 84.8 NM_002924.2 |
| 86.2 | 81.8 | 76.5 | 83.6 NM_033345.1 |
| 88.6 | 88.3 | 82.7 | 77.6 NM_003835.1 |
| 89.4 | 84 | 76.9 | 78 NM_003835.1 |
| 97.1 | 102 | 87.3 | 97.2 NM_207391.1 |
| 96.5 | 86.9 | 87.8 | 95.1 NM_000324.1 |
| 249.4 | 253.6 | 255 | 191.2 NM_032276.2 |
| 984.3 | 549.4 | 422 | 335.5 NM_001040456.1 |
| 1136 | 562 | 492.4 | 399.5 NM_020684.2 |
| 180 | 198.4 | 154.4 | 175.1 NM_012265.1 |
| 584 | 628.3 | 672.5 | 374.9 NM_022450.2 |
| 279.7 | 303.1 | 330.6 | 189.3 NM_024599.3 |
| 89.4 | 86.5 | 86.1 | 84.8 NM_001005498.1 |
| 252.2 | 269.5 | 259.1 | 157.6 NM_024599.2 |
| 86.3 | 83.2 | 89.9 | 89 NM_024599.3 |
| 170.5 | 167.6 | 168.8 | 158.2 NM_003961.1 |
| 105.9 | 97.7 | 94.9 | 96.7 NM_017821.3 |
| 106.9 | 96.8 | 97.8 | 99.5 NM_138328.2 |
| 95.2 | 83.9 | 78.2 | 87.2 NM_020407.1 |
| 96.1 | 92.9 | 83.7 | 96.6 NM_138617.2 |
| 87.7 | 81.3 | 83.4 | 87.2 NM_020485.3 |
| 80.6 | 73.3 | 84.4 | 81.9 NM_016321.1 |
| 84.2 | 91.1 | 83.1 | 90.2 NM_016124.3 |

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|--------|--------|--------|--------|----------------|
| 2365.9 | 2145.4 | 1766.3 | 1341.2 | NM_005614.2 |
| 89.7 | 91.2 | 92.9 | 91.9 | NM_144593.1 |
| 91.4 | 88.8 | 80.4 | 87.1 | NM_000539.2 |
| 5936.2 | 3720.4 | 3621.9 | 3330.7 | NM_001664.2 |
| 101.2 | 103.9 | 85 | 96.2 | NM_004040.2 |
| 104.4 | 79.6 | 83.6 | 79.9 | NM_198225.1 |
| 93.4 | 92.3 | 90.9 | 89 | NM_001032380.1 |
| 80.9 | 78.3 | 75.8 | 84.3 | NM_014836.3 |
| 92 | 93.3 | 94.9 | 86 | NM_198225.1 |
| 121.6 | 126 | 132.7 | 112.6 | NM_015178.1 |
| 201 | 324.9 | 330.4 | 278 | NM_014899.2 |
| 1153.5 | 505.6 | 519.3 | 377.5 | NM_175744.3 |
| 404.5 | 226.1 | 220.4 | 125.8 | NM_175744.3 |
| 86 | 76 | 76 | 90.5 | NM_014578.2 |
| 87.2 | 92 | 85.1 | 97.2 | NM_019034.2 |
| 2318.1 | 1535.2 | 1107.7 | 847.7 | NM_001665.2 |
| 85.2 | 83.9 | 70.1 | 75.9 | NM_004310.2 |
| 96.2 | 91.4 | 84.4 | 86.5 | NM_020663.2 |
| 1125.5 | 1377.2 | 1177.8 | 938.6 | NM_012249.2 |
| 402 | 648.5 | 467.9 | 564.5 | NM_001033566.1 |
| 697.7 | 1164.4 | 862 | 895.6 | NM_018307.3 |
| 113.6 | 125.8 | 103 | 112.6 | NM_001033568.1 |
| 549 | 508.1 | 442.2 | 410.7 | NM_138769.1 |
| 88 | 83.7 | 78.3 | 77.3 | NM_133639.2 |
| 111.5 | 101.7 | 92.4 | 97.3 | NM_052924.1 |
| 117.5 | 113.1 | 93.6 | 93.7 | NM_033103.3 |
| 85.8 | 100 | 88.4 | 84.8 | NM_001031745.1 |
| 87.5 | 76 | 88.4 | 85.1 | NM_144968.1 |
| 91.6 | 94.3 | 76.1 | 87 | NM_015653.2 |
| 78.1 | 91.3 | 67.9 | 78.4 | NM_024557.2 |
| 869 | 679.3 | 580.4 | 506.2 | NM_021932.4 |
| 94.2 | 89.9 | 78 | 97.8 | NM_018157.1 |
| 237.2 | 271.7 | 261.7 | 263.3 | NM_014715.2 |
| 97.3 | 88.5 | 90.4 | 94.5 | NM_152756.3 |
| 271.7 | 235.8 | 224 | 221.2 | NM_018151.3 |
| 160.9 | 142.2 | 139.3 | 128.3 | NM_031430.1 |
| 100.5 | 96.8 | 101.5 | 98.8 | NM_015347.3 |
| 89.9 | 87.8 | 85.3 | 92.5 | NM_014989.2 |
| 89.5 | 93.4 | 81.6 | 84.5 | NM_014677.2 |
| 1692.4 | 2096.9 | 2490 | 1375.7 | NM_014747.2 |
| 96.3 | 92.5 | 83.9 | 85.7 | NM_182970.2 |
| 115.8 | 102.8 | 109 | 96.4 | NM_004292.2 |
| 87.8 | 86.3 | 88.1 | 99.7 | NM_018993.2 |
| 108.6 | 106.5 | 101.3 | 93.6 | NM_024832.3 |
| 3250.8 | 2879.8 | 2912.2 | 1648.1 | NM_002931.3 |
| 196.6 | 234.9 | 212.2 | 168.1 | NM_021930.3 |
| 339.1 | 270 | 247.3 | 191.7 | NM_031480.2 |
| 75.6 | 78.6 | 80.5 | 84.8 | NM_153005.1 |
| 151.1 | 102.2 | 106.2 | 124.2 | NM_031480.2 |
| 920.1 | 635.9 | 480.5 | 560.8 | NM_018343.1 |

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|---------|---------|---------|---------|----------------|
| 585.1 | 509.9 | 462.9 | 381.1 | NM_003831.2 |
| 1397.2 | 1360 | 1338.3 | 931.8 | NM_003831.2 |
| 91 | 91.2 | 88.1 | 93.3 | NM_145906.1 |
| 709.2 | 866.1 | 724.3 | 630.3 | NM_001033002.1 |
| 197.9 | 252.3 | 234.4 | 198.3 | NM_003804.3 |
| 687 | 444.9 | 384.8 | 315.1 | NM_003821.4 |
| 213.6 | 140.6 | 158.3 | 138.1 | NM_006871.2 |
| 107.5 | 110.5 | 105.1 | 97.4 | NM_020639.2 |
| 132.6 | 135.6 | 131.4 | 120.8 | NM_015375.1 |
| 407.2 | 344.5 | 341 | 243.6 | NM_199462.1 |
| 1143.8 | 1220.3 | 885.1 | 665.7 | NM_015444.1 |
| 478.8 | 378 | 322.6 | 336.8 | NM_006912.3 |
| 79.1 | 81.5 | 70.5 | 87 | NM_002930.1 |
| 87.8 | 89.8 | 81.7 | 85.7 | NM_203304.1 |
| 311.3 | 347.5 | 271.1 | 332 | NM_016626.2 |
| 103.3 | 94.1 | 89.9 | 102.2 | NM_032246.3 |
| 95.1 | 84.8 | 93.2 | 89.9 | NM_000326.3 |
| 251.6 | 471.2 | 390.9 | 379.7 | NM_012421.1 |
| 83.9 | 89 | 86.5 | 88.5 | NM_006911.2 |
| 86 | 86.1 | 84.4 | 83.3 | NM_005059.2 |
| 89 | 89 | 88.9 | 84.1 | NM_005059.2 |
| 83.7 | 83.1 | 81.6 | 91.1 | NM_080864.2 |
| 94 | 90.6 | 91.8 | 94.1 | NM_016568.1 |
| 92.8 | 85.4 | 85.2 | 85.2 | NM_181885.1 |
| 87.4 | 87.4 | 85.2 | 87.4 | NM_001013838.1 |
| 897.5 | 697.2 | 602.7 | 586.3 | NM_024945.1 |
| 433 | 992.5 | 1172.8 | 893.9 | NR_001445.1 |
| 14994 | 19220.4 | 20793.8 | 17435.5 | NR_002715.1 |
| 97.2 | 103.6 | 101.8 | 101.1 | NM_198232.1 |
| 91 | 102.1 | 94.8 | 101.8 | NM_198235.1 |
| 101.7 | 104.5 | 112.8 | 92.3 | NM_001012975.1 |
| 92.1 | 88.8 | 82.5 | 98.1 | NM_145250.3 |
| 85.3 | 82.3 | 84.9 | 86.2 | NM_001024822.1 |
| 95 | 85.9 | 83.8 | 81.4 | NM_001012264.2 |
| 14357.8 | 9990.1 | 8072.4 | 8169.6 | NM_002934.2 |
| 1023 | 856.7 | 688.8 | 669.8 | NM_002935.2 |
| 88.8 | 100.3 | 86 | 94.8 | NM_194431.1 |
| 96.4 | 103.3 | 89.3 | 89.8 | NM_194430.1 |
| 115.4 | 118.6 | 122.9 | 119.2 | NM_002937.3 |
| 93.6 | 101.7 | 95.5 | 98.9 | NM_194430.1 |
| 200.3 | 213.3 | 178 | 148.6 | NM_005615.2 |
| 83.9 | 79 | 75 | 79.6 | NM_032572.2 |
| 87.8 | 84.3 | 82.4 | 88.3 | NM_138331.1 |
| 81.4 | 73.2 | 81.6 | 78 | NM_001001673.1 |
| 1252.9 | 1071.6 | 1007.8 | 627.5 | NM_002936.3 |
| 517.4 | 333.8 | 331.8 | 241.8 | NM_006397.2 |
| 443.3 | 348.6 | 422.4 | 356.7 | NM_021133.2 |
| 85 | 86.9 | 90.5 | 79.4 | NM_013235.2 |
| 12634.7 | 14088.9 | 13816.8 | 8753.9 | NM_003730.3 |
| 95.9 | 87.8 | 88.2 | 93.6 | NM_014470.2 |

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| 106 | 106.6 | 116.1 | 105 NM_005440.3 |
| 99.5 | 105.9 | 95.3 | 94.5 NM_005168.3 |
| 207.5 | 174.8 | 158.1 | 148.1 NM_014868.3 |
| 100.9 | 93.5 | 101.1 | 81.4 NM_014372.3 |
| 90.8 | 100.2 | 89.7 | 80.2 NM_017610.6 |
| 341.9 | 340.9 | 360.8 | 221.1 NM_006978.1 |
| 89.6 | 96 | 97 | 95.1 NM_178861.3 |
| 93 | 92.7 | 87 | 78.2 NM_183353.1 |
| 80 | 84.4 | 80.7 | 79.1 NM_183353.1 |
| 100 | 96.5 | 90.2 | 104.2 NM_183353.1 |
| 150.6 | 152.3 | 122.3 | 118.9 NM_018320.3 |
| 389.6 | 311.6 | 343.9 | 220.2 NM_018320.3 |
| 99.5 | 90.5 | 89.2 | 93.9 NM_024787.2 |
| 201.4 | 215.8 | 205.5 | 147.6 NM_022064.2 |
| 129.6 | 112.8 | 124.3 | 114.2 NM_017831.2 |
| 400.8 | 386.9 | 389.2 | 189.8 NM_194460.1 |
| 225.5 | 213.8 | 212.4 | 213.7 NM_194460.1 |
| 121.7 | 105.4 | 102.5 | 107.2 XR_000279.2 |
| 90.3 | 97 | 86.2 | 95.7 NR_002818.1 |
| 91.8 | 88 | 94.7 | 85.4 NM_194463.1 |
| 104.2 | 123 | 103.2 | 92.7 NM_024539.3 |
| 108.8 | 114.2 | 107.6 | 94.9 NM_024539.3 |
| 373.1 | 495.8 | 390.4 | 572.1 NM_183381.1 |
| 93.6 | 110.3 | 105 | 93 NM_007282.3 |
| 448.9 | 835.9 | 843.6 | 677.7 NM_018434.4 |
| 116.5 | 97.5 | 91.3 | 96.9 NM_139175.1 |
| 387.4 | 349.1 | 269 | 295.1 NM_032322.3 |
| 197.7 | 186.3 | 177.6 | 166.8 NM_032322.3 |
| 125.4 | 100.2 | 96.7 | 87.9 NM_197939.1 |
| 234 | 221.5 | 190.7 | 202.3 NM_016271.3 |
| 96.3 | 81.7 | 89.4 | 78.6 NM_007218.3 |
| 96.5 | 96.4 | 94.5 | 89.9 NM_183401.1 |
| 688.2 | 583.4 | 495.3 | 443.6 NM_004290.3 |
| 389.6 | 357.4 | 283.8 | 264.9 NM_183400.1 |
| 126.3 | 121.8 | 103.6 | 103.6 NM_016422.3 |
| 282.1 | 257.1 | 275.8 | 197.2 NM_014746.2 |
| 536.8 | 485.9 | 366.3 | 379.1 NM_030963.2 |
| 110.8 | 103.6 | 104 | 91 NM_198085.1 |
| 109.1 | 139.8 | 147.8 | 139.8 NM_173647.2 |
| 95.4 | 108.8 | 113.1 | 97.3 NM_020724.1 |
| 94.1 | 94.7 | 84.5 | 87.3 XM_939671.1 |
| 86.3 | 81.3 | 77.4 | 84.7 NM_174903.4 |
| 91.1 | 94 | 100.4 | 100.9 NM_173557.2 |
| 92.5 | 99.5 | 99.7 | 91.3 NM_052916.1 |
| 170.1 | 117.9 | 132.3 | 105.2 NM_152470.2 |
| 136.6 | 112.3 | 108.8 | 118.2 NM_178841.2 |
| 201.7 | 197.8 | 204.2 | 141.3 NM_015528.1 |
| 91.1 | 93.8 | 87.8 | 90.7 NM_152617.2 |
| 89.2 | 86 | 81.2 | 93.2 NM_031994.1 |
| 92.5 | 87.9 | 82.7 | 85.9 NM_031277.1 |

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| 215.3 | 183.1 | 204.3 | 195.2 NM_030954.2 |
| 236.1 | 157.9 | 218.1 | 175.9 NM_173662.1 |
| 90.5 | 85.8 | 89.7 | 91.1 NM_178532.2 |
| 108.9 | 98.9 | 95.3 | 87.3 NM_145051.2 |
| 131 | 134.5 | 123.4 | 110 NM_152267.2 |
| 93.7 | 77.9 | 81.1 | 77.8 NM_019062.1 |
| 122.6 | 127.4 | 136.2 | 117.8 NM_183419.1 |
| 83.7 | 90 | 84.3 | 98 NM_015435.3 |
| 573.6 | 398.8 | 345 | 355.3 NM_015435.3 |
| 90.4 | 77.5 | 79.8 | 80.6 NM_152598.1 |
| 82.5 | 104.5 | 90.6 | 86.3 NM_007212.3 |
| 565.1 | 483.8 | 421.7 | 430.9 NM_019592.5 |
| 401.7 | 724 | 627.1 | 629.8 NM_007219.2 |
| 128.7 | 109.8 | 120.7 | 114.6 NM_022453.2 |
| 369.3 | 205.4 | 215.5 | 175.9 NM_032015.3 |
| 252.4 | 190.3 | 190.5 | 174.5 NM_017999.3 |
| 105.8 | 94.3 | 96.2 | 103.7 NM_030936.2 |
| 1752 | 1421.1 | 1332.5 | 1149 NM_025126.2 |
| 105.8 | 112.8 | 100.8 | 106.8 NM_025126.2 |
| 82.2 | 89.7 | 82.3 | 80.1 NM_194271.1 |
| 95.8 | 81.6 | 77.8 | 81 NM_080745.2 |
| 93.7 | 94.1 | 82.9 | 97.9 NM_182985.2 |
| 94 | 79.3 | 71.1 | 84.8 NM_194330.2 |
| 172.9 | 160.4 | 129.2 | 152.1 NM_194328.2 |
| 680.5 | 711.3 | 674.5 | 525 NM_194331.1 |
| 95 | 90.2 | 77.8 | 98.8 NM_025236.2 |
| 90 | 99.6 | 91.3 | 91.2 NM_170770.1 |
| 276.5 | 225 | 187.5 | 164.1 NM_002938.2 |
| 369.3 | 372.2 | 282.8 | 306.8 NM_014771.2 |
| 170.3 | 162.8 | 170.3 | 157.6 NM_194359.1 |
| 95 | 96.1 | 89.3 | 111.5 NM_194358.1 |
| 97.3 | 99.4 | 101 | 88.5 NM_017763.3 |
| 188.7 | 264.7 | 285.1 | 177.1 NM_014901.4 |
| 379.3 | 352.5 | 356.8 | 282.2 NM_006913.2 |
| 1450.1 | 1335.8 | 1267 | 901.7 XR_000528.1 |
| 333.6 | 307.8 | 295.8 | 211 NR_003129.1 |
| 103.8 | 102.4 | 97.9 | 104 NM_183044.1 |
| 92.2 | 85.4 | 91 | 90.6 NM_183043.1 |
| 133.5 | 117.4 | 111.3 | 105.9 NM_183045.1 |
| 107.5 | 94 | 88 | 92.8 NM_014245.2 |
| 106.6 | 101 | 88.4 | 96.5 NM_003958.2 |
| 383.4 | 254 | 262.5 | 212.4 NM_003958.2 |
| 848.9 | 915.9 | 666.9 | 681.5 NM_003800.1 |
| 2128.6 | 1479.9 | 1331.3 | 963.1 NM_203385.1 |
| 430.4 | 306.2 | 248.8 | 318.9 NM_203384.1 |
| 601.8 | 626.3 | 588.7 | 414.5 NM_003799.1 |
| 381.5 | 298.9 | 309.7 | 189.2 NM_018146.2 |
| 171.8 | 185.6 | 146.7 | 146.8 NM_017495.4 |
| 92 | 90.9 | 89.2 | 90.4 NM_004902.2 |
| 155.9 | 143.9 | 139.2 | 144.6 NM_017619.3 |

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| 588.1 | 504.4 | 487.9 | 228.7 | NM_020216.3 |
| 107.2 | 105.1 | 101.8 | 96.8 | NM_018226.3 |
| 1772.1 | 974.8 | 791.6 | 570.4 | NM_006711.2 |
| 187.1 | 118.6 | 125.6 | 117.7 | NM_080594.1 |
| 103 | 101.2 | 99 | 113.5 | NR_002716.1 |
| 148.6 | 108.4 | 100.7 | 98.4 | NM_004704.3 |
| 1017.8 | 853.2 | 739.8 | 714.1 | NM_005701.2 |
| 218.1 | 231 | 295.2 | 230.3 | NM_032177.2 |
| 94 | 85.3 | 85.1 | 91.2 | NM_133631.1 |
| 98.7 | 107.1 | 103.8 | 111.8 | NM_133631.1 |
| 85.6 | 80.5 | 88.6 | 71.3 | NM_002941.2 |
| 91 | 82.7 | 79.8 | 89.7 | NM_002942.2 |
| 240.2 | 137.5 | 160.3 | 140.6 | NM_022370.2 |
| 88.6 | 77.9 | 74.4 | 90.2 | NM_019055.4 |
| 157 | 221.8 | 210.2 | 213.1 | NM_005406.1 |
| 10152.6 | 15785 | 18177.6 | 12258.6 | NM_004850.3 |
| 1334.3 | 1182.1 | 1135.4 | 1328.2 | NM_005156.4 |
| 117.9 | 114.4 | 116.3 | 103.6 | NM_000327.2 |
| 97.5 | 91.9 | 83.4 | 85.5 | NM_017578.2 |
| 95.9 | 92 | 89.4 | 96.2 | NM_001012337.1 |
| 93.6 | 96.4 | 95.2 | 89.8 | NM_001012337.1 |
| 129.6 | 107.3 | 102.6 | 95.3 | NM_031916.2 |
| 91 | 81.5 | 80.8 | 88.6 | NM_005012.1 |
| 114.7 | 88.7 | 86.5 | 96.6 | NM_004560.2 |
| 98.1 | 91.2 | 82.5 | 94.8 | NM_002943.2 |
| 78.3 | 81.5 | 76.3 | 76.2 | NM_002943.2 |
| 97.8 | 83.8 | 74.8 | 84.5 | NM_134262.1 |
| 105.6 | 107.9 | 106.6 | 103.1 | NM_134261.1 |
| 86 | 78.5 | 78.9 | 92.2 | NM_134260.1 |
| 88.2 | 83.5 | 84.9 | 84.8 | NM_002943.2 |
| 78 | 78.5 | 76 | 86.6 | NM_006914.3 |
| 86.4 | 81.7 | 82.1 | 86.9 | NM_001001523.1 |
| 94.3 | 84.1 | 77 | 87.3 | NM_001001523.1 |
| 92.2 | 101 | 92.2 | 87 | NM_001001523.1 |
| 92.8 | 78.1 | 79.6 | 80.8 | NM_005060.3 |
| 92.9 | 82.1 | 81.7 | 92 | NM_002944.2 |
| 94.3 | 85.6 | 84.4 | 87.5 | NM_006269.1 |
| 397.8 | 342.5 | 298.9 | 215.6 | NM_058163.1 |
| 181.8 | 186.1 | 180.1 | 171.4 | NM_001012267.1 |
| 88.4 | 98.8 | 85.3 | 97.3 | NM_153270.1 |
| 177 | 137.2 | 141.9 | 124.6 | NM_015448.1 |
| 100.5 | 85 | 97.7 | 89.4 | NM_001079516.1 |
| 74.5 | 85.2 | 88.2 | 82.9 | NM_173695.1 |
| 95.6 | 89.6 | 97.2 | 95 | NM_001010866.1 |
| 137.4 | 111.4 | 97.7 | 112.6 | NM_001010866.1 |
| 93.5 | 83.3 | 82.2 | 81.7 | NM_173698.1 |
| 89.5 | 92.3 | 84.4 | 92.5 | NM_178857.4 |
| 499.1 | 443.7 | 384.7 | 305.8 | NM_006915.1 |
| 480.5 | 540.8 | 528.4 | 344.8 | NM_203288.1 |
| 826.4 | 606.1 | 589 | 432.9 | NM_002945.2 |

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| 2107.1 | 1570.3 | 1494.5 | 880.5 | NM_002946.3 |
| 4209.9 | 2344.8 | 1911.2 | 2394.5 | NM_002947.3 |
| 94.9 | 124.5 | 134.9 | 128.8 | NM_013347.1 |
| 1358.9 | 1201.6 | 1215.7 | 939.4 | NM_032308.1 |
| 162.7 | 179.6 | 127.1 | 162.4 | NM_015540.2 |
| 88 | 82.3 | 82.5 | 82.1 | NM_006916.1 |
| 935.2 | 679.4 | 494.1 | 532.5 | NM_006916.1 |
| 99.7 | 91.3 | 101.8 | 87 | NM_199229.1 |
| 87.3 | 82.2 | 80.4 | 90.2 | NM_000329.2 |
| 105.3 | 96.3 | 95.4 | 98.1 | NM_153225.2 |
| 91 | 80.9 | 82.3 | 82.2 | NM_001034853.1 |
| 121.8 | 124.3 | 121.3 | 145.2 | NM_001023582.1 |
| 104.2 | 92.1 | 96.8 | 90.9 | NM_000328.2 |
| 85.1 | 80.8 | 77.7 | 73.8 | NM_020366.2 |
| 100.6 | 97.2 | 89.5 | 92.8 | NM_014954.2 |
| 87.8 | 90.9 | 97.6 | 91 | NM_006987.2 |
| 579.3 | 396.4 | 424.1 | 302.2 | NM_144563.1 |
| 82.6 | 84.2 | 84.9 | 79 | NM_138290.1 |
| 78.5 | 101.1 | 86.5 | 75.9 | NM_006695.3 |
| 85.1 | 85.3 | 76.4 | 78.8 | NM_006013.2 |
| 25656.1 | 20506.5 | 20188.4 | 16853.5 | NM_007104.4 |
| 102.3 | 94.3 | 87.9 | 89.9 | NM_080746.2 |
| 14578.8 | 14834.8 | 12156.8 | 13414.2 | NM_000975.2 |
| 35590.6 | 25636 | 26896.3 | 19783.4 | NM_000976.2 |
| 185.7 | 135.3 | 111.1 | 108.4 | NM_033251.1 |
| 364.3 | 326.1 | 261.9 | 225.5 | NM_033251.1 |
| 1604.2 | 1040.3 | 917.8 | 788.7 | NM_012423.2 |
| 368.6 | 278.7 | 275.2 | 208.1 | NM_003973.2 |
| 1510.5 | 1246.3 | 1297.4 | 796.1 | NM_001034996.1 |
| 16631 | 17384.3 | 18083.7 | 12864.6 | NM_001035006.1 |
| 2468.8 | 2353.8 | 2576.7 | 1757.2 | NM_000985.2 |
| 25340.2 | 14584.7 | 16154.3 | 10638.2 | NM_000979.2 |
| 28095.4 | 19021.1 | 20559.5 | 12682.1 | NM_000980.2 |
| 24641.1 | 20091 | 19807.6 | 19592.3 | NM_000981.3 |
| 4111.4 | 3060.4 | 2377.2 | 2420.4 | NM_000982.3 |
| 4624.2 | 4379.1 | 3748.5 | 3013.9 | NM_000983.3 |
| 1555.5 | 1218.5 | 1300.6 | 1319.3 | NM_000978.2 |
| 578.3 | 378.7 | 461.8 | 386.2 | NM_000984.4 |
| 111.3 | 120.6 | 127.8 | 112.1 | NR_002229.1 |
| 242.2 | 219.8 | 233.9 | 205 | NR_000029.1 |
| 19756.3 | 17108.6 | 15323.3 | 13402 | NM_000986.3 |
| 3895.9 | 3579 | 3215.6 | 2550.8 | NM_000987.2 |
| 1796.3 | 1650.1 | 1222 | 1316.4 | NM_016093.2 |
| 28222.3 | 27607.3 | 25009.9 | 18577.6 | NM_000988.2 |
| 15451.8 | 13862.1 | 12488.2 | 11158.2 | NM_000990.2 |
| 537.8 | 286.7 | 269.2 | 223.7 | NM_000991.3 |
| 1567.3 | 700.3 | 567.3 | 516 | NM_000992.2 |
| 113.1 | 114.4 | 107.4 | 111.7 | NR_002778.1 |
| 8769.5 | 9812.2 | 8919.5 | 6419.9 | NM_001033853.1 |
| 11350.1 | 10285.2 | 9925.6 | 10727 | NM_001033853.1 |

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| 23712.1 | 17083.6 | 13570.6 | 14556.9 | NM_000989.2 |
| 3822.8 | 4687.5 | 3807.6 | 3211.3 | NM_000993.2 |
| 400.4 | 287.9 | 269 | 228.9 | NM_001007073.1 |
| 122.4 | 109.2 | 106.2 | 99.1 | NR_003111.1 |
| 731.5 | 779.6 | 618.9 | 636.9 | NM_000995.2 |
| 1177.6 | 923.5 | 636.1 | 564.2 | NM_033625.1 |
| 9182.4 | 8757.6 | 8751.8 | 7191.1 | NM_007209.3 |
| 25373.6 | 22632.7 | 17924.7 | 18803.6 | NM_000996.2 |
| 7213.1 | 6160.8 | 5536.2 | 4613 | NM_033643.1 |
| 229.7 | 155.5 | 134.4 | 119.8 | NM_015414.2 |
| 393 | 241.4 | 187.3 | 184 | NM_021029.4 |
| 5319 | 2273.5 | 2377.3 | 2322.8 | NM_001001.3 |
| 121.7 | 130.9 | 110.2 | 136.2 | NM_000997.4 |
| 6019.2 | 4571.7 | 4645.2 | 5457.9 | NM_000998.4 |
| 41645.8 | 39515.4 | 37408.2 | 37112.2 | NM_000999.2 |
| 27927.3 | 28170.5 | 26254.1 | 21471.7 | NM_001035258.1 |
| 23992.3 | 21798.6 | 16818.4 | 20365.4 | NM_001000.2 |
| 2210.3 | 1428.1 | 1164.5 | 1399.3 | NM_052969.1 |
| 94 | 87.9 | 88.9 | 97.7 | NM_005061.2 |
| 8318 | 10667.1 | 11030.6 | 7029.3 | NM_000968.2 |
| 124.3 | 104.1 | 92.8 | 104.3 | NM_021104.1 |
| 34511.2 | 31728.3 | 27777.6 | 26007.5 | NM_001035267.1 |
| 7562.9 | 6975.8 | 7266.5 | 5376.4 | NM_000969.3 |
| 662.8 | 641.7 | 503.1 | 384.3 | NM_001024662.1 |
| 917.1 | 711.6 | 804.9 | 852.9 | NM_000971.3 |
| 259.5 | 244.6 | 242.8 | 255 | NM_000972.2 |
| 6021.9 | 7232.5 | 8379.7 | 5283.3 | NM_198486.2 |
| 714.3 | 368.9 | 338.7 | 262.2 | NM_033301.1 |
| 34531.3 | 24866.2 | 24424 | 21101.3 | NM_033301.1 |
| 539.2 | 460.6 | 414.2 | 308 | NM_001024921.2 |
| 3383.3 | 1828.4 | 1648.1 | 2264 | NM_001024921.2 |
| 86 | 75.5 | 77.9 | 76.9 | NM_001002.3 |
| 2330.1 | 1795.8 | 1674.5 | 1274.3 | NM_053275.3 |
| 91.9 | 100.2 | 83.3 | 94.4 | NR_002775.1 |
| 15960.3 | 10613.7 | 11473.4 | 9984.5 | NM_001003.2 |
| 7521.9 | 3734.7 | 4798.6 | 4422.3 | NM_213725.1 |
| 25173.6 | 16369.7 | 16904.2 | 16288.4 | NM_001004.2 |
| 5856.7 | 5580.5 | 4887.6 | 3208.5 | NM_002950.3 |
| 367.9 | 382.5 | 392.6 | 358.7 | NM_002951.2 |
| 77.9 | 78 | 78.3 | 84.1 | NM_007042.1 |
| 614.5 | 632.7 | 641.1 | 369.9 | NM_024839.1 |
| 224.4 | 171 | 152.1 | 163 | NM_017793.1 |
| 85.2 | 81.9 | 87.2 | 83.5 | NM_006413.2 |
| 176.7 | 120.8 | 110.3 | 116.8 | NM_183005.1 |
| 96 | 92.3 | 91 | 93.2 | NM_183005.1 |
| 970.4 | 631.3 | 579.1 | 496.6 | NM_006638.2 |
| 1471.5 | 1479 | 1425.1 | 676.6 | NM_018067.2 |
| 87.8 | 90.6 | 83.1 | 88.1 | NM_019845.2 |
| 96.6 | 91.1 | 92.6 | 91.4 | NM_203400.1 |
| 38547 | 34763.8 | 32807 | 32416.4 | NM_001014.3 |

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| 22374.5 | 22000 | 21558.8 | 16182.7 | NM_001015.3 |
| 36170.1 | 34475.4 | 32904.8 | 30982.2 | NM_001016.3 |
| 10044.3 | 10546.9 | 9188.1 | 6840.3 | NM_001017.2 |
| 18514.1 | 15944.6 | 17736.9 | 13073.6 | NM_001025071.1 |
| 9838.4 | 8052.2 | 9127.5 | 5426.7 | NM_001025071.1 |
| 12162.9 | 8793.2 | 9511.2 | 6107.8 | NM_001018.3 |
| 4266.8 | 4295 | 3255.7 | 3718.1 | NM_001019.4 |
| 26557.3 | 26122.8 | 23121.6 | 15185.3 | NM_001030009.1 |
| 7072.6 | 5019.2 | 4625.9 | 3493.7 | NM_001019.4 |
| 28529.2 | 20418 | 21819.5 | 15526 | NM_001020.4 |
| 26088.5 | 21334.1 | 21727.1 | 20325.4 | NM_001021.3 |
| 8864.5 | 8434.5 | 5621.3 | 6833.1 | NM_001022.3 |
| 489.6 | 481.3 | 425 | 414.1 | NM_194326.2 |
| 15584.3 | 10328.5 | 11055.3 | 7892.4 | NM_002952.3 |
| 12263.4 | 9522.5 | 9428.1 | 7927.9 | NM_001023.2 |
| 5028.4 | 2821.3 | 2739.2 | 1849.3 | NM_001024.3 |
| 1850.9 | 1626.9 | 1595.1 | 964.5 | NM_001025.4 |
| 2557.1 | 1616.3 | 1164.1 | 1005.5 | NM_001026.3 |
| 4486.6 | 3088.5 | 3008.5 | 4162.8 | NM_033022.2 |
| 55898.9 | 41711.8 | 36678.9 | 34939 | NM_001028.2 |
| 3735.2 | 2125.9 | 2170.9 | 2169.3 | NM_001029.3 |
| 1202 | 1009.6 | 803.4 | 758.4 | NR_002225.2 |
| 81.5 | 89.7 | 79.2 | 96.2 | NR_002309.1 |
| 47859.7 | 45284.9 | 41046.5 | 38211 | NM_001030.3 |
| 39703.7 | 35450.4 | 32048.6 | 32731.6 | NM_002954.3 |
| 83.2 | 95.3 | 80 | 84.4 | NM_015920.3 |
| 3636.8 | 1725.5 | 2625 | 2270.7 | NM_001031.4 |
| 11464 | 8443.4 | 7361.4 | 7430.2 | NM_001030001.1 |
| 543.9 | 339.6 | 326 | 275.2 | NM_001030001.1 |
| 41691.5 | 37435.4 | 33232.1 | 29680.4 | NM_001030001.1 |
| 35445.8 | 27610.3 | 23997.8 | 26066.9 | NM_001032.3 |
| 34199.9 | 21535.4 | 24062.8 | 14680.7 | NM_001005.3 |
| 8494.3 | 5931 | 5869.3 | 5707.7 | NM_001006.3 |
| 6188.4 | 5645.8 | 4892.9 | 2802.5 | NM_001007.3 |
| 6360.9 | 5869.1 | 4913.5 | 4388 | NM_001008.3 |
| 358.7 | 300.2 | 227.3 | 289.5 | NM_001039567.2 |
| 16704.7 | 11807.9 | 10882.9 | 9139.6 | NM_001009.3 |
| 8908.2 | 9737.5 | 9034.8 | 8506.1 | NM_001010.2 |
| 89.7 | 91.1 | 89.1 | 85.1 | NM_002953.3 |
| 554.2 | 565.7 | 562.9 | 341.3 | NM_001006665.1 |
| 95.9 | 107.5 | 93.7 | 105.7 | NM_021135.4 |
| 269.7 | 289.2 | 319.7 | 221.3 | NM_021135.4 |
| 101.6 | 93 | 93.8 | 90.3 | NM_001006932.1 |
| 147.8 | 213.8 | 191.1 | 183.5 | NM_004586.2 |
| 103 | 106.9 | 92.9 | 104.8 | XM_944112.1 |
| 142.9 | 139.1 | 123 | 124.2 | NM_004586.2 |
| 261.9 | 226.9 | 199.2 | 194.4 | NM_003942.2 |
| 152.7 | 217.7 | 251 | 200.6 | NM_004755.2 |
| 94.3 | 99.9 | 84.4 | 93.9 | NM_182398.1 |
| 117.7 | 95.9 | 108 | 95.7 | NM_014496.1 |

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| 591.1 | 518.2 | 506.9 | 452 NM_003161.2 |
| 1385.3 | 1165.3 | 1467.2 | 455 NM_003952.2 |
| 126.6 | 112.4 | 101.1 | 111.4 NM_012424.2 |
| 111.8 | 118.2 | 114.8 | 112.7 NM_031464.2 |
| 1394.4 | 864.2 | 718.4 | 527.7 NM_001011.3 |
| 6767.1 | 5330.1 | 5974.3 | 3608.4 NM_001013.2 |
| 10711.4 | 8191.7 | 7874.3 | 5048.4 NM_001013.3 |
| 38961.4 | 19857.5 | 21435.9 | 14748.8 NM_002295.4 |
| 133.8 | 99.8 | 98.7 | 102.2 NM_001012321.1 |
| 729.8 | 301.8 | 251.1 | 205.5 NM_058192.2 |
| 1197.9 | 824.3 | 781.7 | 494.4 NM_152260.1 |
| 1138 | 761.5 | 633.3 | 423.5 NM_173659.2 |
| 2221.2 | 961.4 | 934 | 642.6 NM_032795.1 |
| 1113.5 | 722.7 | 675.9 | 504.8 NM_005444.1 |
| 82.8 | 77.4 | 82.5 | 80.8 NM_004165.1 |
| 2057.7 | 1631.8 | 1268 | 1097.5 NM_006570.4 |
| 118.7 | 105.7 | 101.7 | 102.3 NM_006064.3 |
| 77.6 | 84.5 | 82.8 | 86.9 NM_016656.2 |
| 257.6 | 246.9 | 261.4 | 211.6 NM_006064.3 |
| 303.8 | 369.2 | 401.8 | 278 NM_022157.2 |
| 438.2 | 852.1 | 875.7 | 651 NM_021244.2 |
| 333.6 | 223.1 | 251.4 | 174.4 NM_006270.2 |
| 233.4 | 173.6 | 166 | 147.2 NM_012250.3 |
| 109.8 | 126.5 | 110 | 128.8 NM_004587.1 |
| 506.3 | 739 | 673.5 | 435.9 NM_001042576.1 |
| 110.6 | 193.1 | 167.6 | 140.3 NM_001042576.1 |
| 108.5 | 101.4 | 88.9 | 98.1 NM_002955.4 |
| 147.6 | 149.5 | 134.5 | 127.6 NM_001003699.1 |
| 106.3 | 103 | 89.7 | 92.8 NM_001003699.1 |
| 115.1 | 102.2 | 106 | 114.7 NM_001003699.1 |
| 80.7 | 76.6 | 76.7 | 85.4 NM_006583.2 |
| 6955.5 | 4450.7 | 3910.3 | 3958.3 NM_001033.2 |
| 493.5 | 440.2 | 391.1 | 299.3 NM_001034.1 |
| 142.2 | 117.5 | 114.4 | 119.1 NM_015713.3 |
| 123.3 | 113.4 | 101.7 | 99.9 NM_018427.2 |
| 140.4 | 124.8 | 111.8 | 103.6 NM_001007279.1 |
| 84.9 | 94.2 | 92.5 | 90.5 NM_001007279.1 |
| 944.5 | 495.6 | 395.3 | 288.8 NM_015169.3 |
| 92.6 | 92 | 80.9 | 84.2 NM_000330.2 |
| 114.5 | 111.2 | 108.8 | 100.8 NM_018346.1 |
| 106.3 | 98.9 | 103.5 | 104.3 NM_080657.3 |
| 272.6 | 329 | 294.6 | 233.4 NM_018264.2 |
| 1087.4 | 594 | 566.9 | 461.9 NM_018364.3 |
| 261.4 | 298.8 | 266.7 | 234.5 NM_198467.1 |
| 138.5 | 126.6 | 100.9 | 113.7 NM_006511.1 |
| 85.9 | 93 | 93.3 | 87.3 NM_030785.2 |
| 235.1 | 349.7 | 325.8 | 316.9 NM_031924.3 |
| 115.3 | 124.5 | 98.6 | 110.8 NM_001010892.1 |
| 2414.2 | 2443.9 | 1926.5 | 1520.2 NM_015659.1 |
| 110.8 | 90.5 | 88.8 | 95.6 NM_002956.2 |

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| 155.6 | 204.4 | 158 | 159.6 NM_024692.3 |
| 84.4 | 80.9 | 77.3 | 76.4 NM_173640.1 |
| 143.8 | 144.2 | 153.7 | 124.5 NM_178565.3 |
| 124.9 | 118.7 | 104 | 109.6 NM_032784.3 |
| 89.6 | 92.6 | 88.9 | 85.5 NM_001029871.1 |
| 91.8 | 87.1 | 84.3 | 91.9 NM_001040007.1 |
| 1237.6 | 1332.6 | 1158.4 | 807.6 NM_133368.1 |
| 1107.7 | 1087.4 | 807.5 | 866.6 NM_016625.2 |
| 406.2 | 364.1 | 327.7 | 304.7 NM_023012.4 |
| 503 | 611.7 | 592.4 | 489.2 NM_152724.2 |
| 106.8 | 112.3 | 105.7 | 100.9 NM_152724.2 |
| 80.3 | 78.3 | 77.7 | 79.2 NM_031429.1 |
| 85.3 | 80.3 | 90.8 | 87.6 NM_031429.1 |
| 96.9 | 98.5 | 87 | 90.3 NM_031429.1 |
| 774.1 | 451.2 | 475 | 345.5 NM_003729.1 |
| 75.2 | 73.9 | 79 | 75.2 NM_014433.2 |
| 108.3 | 98.3 | 97.3 | 91.8 NM_032957.2 |
| 82.6 | 78 | 82.3 | 78.1 NM_016434.2 |
| 156 | 158.2 | 132.6 | 134.6 NM_015138.3 |
| 119.1 | 108.5 | 113.8 | 100.5 NM_001015056.1 |
| 236.2 | 233.9 | 217 | 142.6 NM_001015055.1 |
| 98 | 85.8 | 83.8 | 81.8 NM_033046.2 |
| 87.6 | 90.9 | 74.7 | 80.9 NM_001015055.1 |
| 88.2 | 90.9 | 81.8 | 83.3 NM_206852.1 |
| 97.5 | 95.5 | 86.6 | 89.9 NM_021136.2 |
| 159.7 | 96.1 | 88.3 | 102.6 NM_206857.1 |
| 168.2 | 175.6 | 182.5 | 193.3 NM_206902.1 |
| 358.6 | 346.6 | 294.6 | 260.3 NM_005619.3 |
| 87.4 | 93.9 | 94.3 | 90.2 NM_206902.1 |
| 372 | 257.7 | 251.5 | 310.1 NM_006054.2 |
| 104 | 108.2 | 105.7 | 135.2 NM_201428.1 |
| 86.6 | 89.6 | 84.9 | 88.6 NM_201429.1 |
| 1375.9 | 1351.3 | 1154.9 | 1015.3 NM_201430.1 |
| 531.3 | 503.7 | 371.8 | 595.6 NM_020532.4 |
| 83.8 | 80 | 80.9 | 86.1 NM_207521.1 |
| 4878.9 | 4293.3 | 3244.7 | 4767.1 NM_007008.2 |
| 98.2 | 97.7 | 85.7 | 100.2 NM_007008.2 |
| 312.5 | 277.2 | 211.9 | 192.9 NM_032730.3 |
| 92.6 | 108.1 | 109.6 | 95 NM_023004.5 |
| 86.2 | 84.8 | 91.2 | 86.4 NM_178568.2 |
| 94.7 | 92 | 93 | 85.7 NM_178570.1 |
| 91.6 | 112.3 | 105.6 | 93.3 NM_153708.1 |
| 95.7 | 88.8 | 90.8 | 85.9 NM_001004312.1 |
| 87.4 | 86.7 | 80.2 | 81.5 NM_031440.1 |
| 166.6 | 172.5 | 166.8 | 141.5 NM_022147.2 |
| 92.2 | 83.8 | 85.7 | 94.5 NM_025158.3 |
| 288 | 355.6 | 307.5 | 258.8 NM_001040451.1 |
| 100.3 | 92.8 | 96.4 | 90.8 NM_001042417.1 |
| 115.9 | 116.2 | 102.7 | 98.6 NM_017987.3 |
| 99.6 | 94.5 | 90.3 | 100.6 NM_001042417.1 |

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| 90.8 | 98.5 | 96.5 | 88.2 NM_001037442.1 |
| 119.5 | 109.6 | 95.5 | 110.8 NM_014961.2 |
| 105.2 | 103.5 | 96.5 | 95.4 NM_001037442.1 |
| 482.1 | 565.1 | 473.3 | 484.9 NM_173079.1 |
| 100.5 | 96.2 | 92.6 | 105 NM_032167.1 |
| 89.6 | 102.4 | 86.4 | 77.1 NM_001754.3 |
| 97 | 119.3 | 111.7 | 119.4 NM_001001890.1 |
| 449.8 | 604.7 | 693.4 | 439.4 NM_001754.3 |
| 81 | 83 | 75.4 | 94.1 NM_175634.1 |
| 91.7 | 85 | 78.9 | 88 NM_175635.1 |
| 80.2 | 95.7 | 79.8 | 79 NM_175636.1 |
| 94.3 | 108.6 | 99.9 | 95.4 NM_175636.1 |
| 83.6 | 83.2 | 77.9 | 80.5 NM_004349.2 |
| 97.5 | 97.5 | 84.7 | 94.5 NM_001015051.2 |
| 266 | 310.8 | 273 | 316.2 NM_001024630.1 |
| 99.1 | 83.4 | 81.7 | 87.6 NM_004348.3 |
| 1209.2 | 1212.9 | 1077 | 639.3 NM_004350.1 |
| 103.9 | 92.8 | 92.7 | 100.4 NM_001031680.1 |
| 2066.7 | 1169.9 | 1217.7 | 799.5 NM_014328.2 |
| 113.6 | 92.2 | 92.3 | 96.1 NM_014806.1 |
| 851.3 | 1327.5 | 1455.2 | 590.9 NM_014853.1 |
| 99.3 | 93.9 | 89.1 | 86.2 NM_001039948.1 |
| 140.8 | 155.7 | 134.6 | 137.1 NM_015705.4 |
| 421.3 | 234 | 219.1 | 159.4 NM_003707.1 |
| 1146.7 | 569.1 | 520.5 | 416.3 NM_006666.1 |
| 165.5 | 149.9 | 138.7 | 134.1 NM_016104.2 |
| 5083.1 | 5531.1 | 4201.7 | 3606 NM_001007464.1 |
| 272.2 | 285.2 | 284.7 | 250.5 NM_033411.2 |
| 505.6 | 407.5 | 368.8 | 286.2 NM_152682.1 |
| 4072.2 | 3568.2 | 2589.9 | 2214.6 NM_002957.3 |
| 291.1 | 349.7 | 419.2 | 184.8 NM_021976.3 |
| 83.9 | 78.8 | 79.3 | 75.9 NM_001009598.1 |
| 102.8 | 100 | 96.9 | 98.6 NM_001009598.1 |
| 87.5 | 88.6 | 83 | 92.4 NM_006917.3 |
| 946 | 757 | 669.1 | 536.5 NM_006857.1 |
| 616.7 | 571.8 | 738.4 | 502.2 NM_012234.3 |
| 206.2 | 219.9 | 191.4 | 182.7 NM_002958.3 |
| 308.9 | 366.2 | 281.2 | 298.2 XM_940269.1 |
| 799.8 | 852 | 823.8 | 621.1 NM_001005861.1 |
| 111.8 | 108.4 | 107.8 | 95.8 NM_000540.1 |
| 197.9 | 222.4 | 178.4 | 185.8 NM_001042723.1 |
| 104.1 | 93.7 | 93.8 | 103.7 NM_001035.1 |
| 105.6 | 98.6 | 104 | 103.6 NM_001036.2 |
| 104.6 | 102.3 | 89.9 | 91.7 NM_006271.1 |
| 4508.2 | 2427.2 | 1941.3 | 1431.6 NM_002966.2 |
| 622.8 | 452.9 | 441.3 | 322.5 NM_005620.1 |
| 94.6 | 139.6 | 111.3 | 134.4 NM_005621.1 |
| 108 | 103.5 | 95.1 | 103 NM_001024213.1 |
| 81.5 | 98.8 | 95.6 | 91.2 NM_001024212.1 |
| 129 | 145.4 | 130.3 | 128.2 NM_001024211.1 |

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| 134.6 | 121.9 | 127.6 | 117.8 NM_001024211.1 |
| 115 | 109.6 | 115.4 | 100.3 NM_005979.2 |
| 151.7 | 155.2 | 137.5 | 143.7 NM_001024210.1 |
| 84.3 | 81.4 | 74.7 | 81 NM_020672.1 |
| 85 | 93.5 | 94.8 | 80.9 NM_080388.1 |
| 121.1 | 110.8 | 107.6 | 94.3 NM_005978.3 |
| 92.6 | 87 | 79.3 | 89.3 NM_002960.1 |
| 13505.2 | 10657.3 | 10763.5 | 9268.5 NM_002961.2 |
| 19201.4 | 16572 | 17499.4 | 12539.6 NM_002961.2 |
| 105.1 | 84 | 87.6 | 92.9 NM_002962.1 |
| 1706.2 | 2328.6 | 2753.2 | 910.6 NM_014624.3 |
| 85 | 81.5 | 76.2 | 83.6 NM_002963.2 |
| 91.2 | 88 | 91.3 | 91.1 NM_176823.2 |
| 95.2 | 90.4 | 82.8 | 87.1 NM_001045479.1 |
| 640.6 | 2159 | 1796.8 | 1822.6 NM_002964.3 |
| 1468.4 | 2615.6 | 2027.9 | 2369.6 NM_002965.2 |
| 78.6 | 82.8 | 75.3 | 85.5 NM_006272.1 |
| 95 | 87 | 89.4 | 90.6 NM_004057.1 |
| 306.9 | 256 | 213 | 200 NM_005980.2 |
| 107.1 | 118.1 | 106.3 | 108.2 NM_001017406.1 |
| 124.4 | 139.4 | 120.5 | 137.2 NM_022753.2 |
| 75.9 | 84.5 | 70.8 | 87.4 NM_130772.1 |
| 91.2 | 85.4 | 91.3 | 85.8 NM_199161.1 |
| 95 | 90.6 | 73.8 | 81.5 NM_199161.1 |
| 91.3 | 100.7 | 96.3 | 96 NM_000331.2 |
| 97.3 | 100.2 | 88.1 | 93.7 NM_030754.2 |
| 73.2 | 70.9 | 82.1 | 81.2 NM_006512.1 |
| 1090.8 | 630.3 | 559.8 | 480.4 NM_138421.1 |
| 83.4 | 76.3 | 83.6 | 87.1 NM_018417.2 |
| 507.3 | 397.5 | 347 | 432.7 NM_014016.2 |
| 130.9 | 166.5 | 141.8 | 140.5 NM_014363.3 |
| 7138 | 4938.9 | 4578 | 2962.8 NM_005500.1 |
| 1114.2 | 1016.2 | 1196.2 | 442.6 NM_002967.2 |
| 703.4 | 626.4 | 610.6 | 454.2 NM_014649.2 |
| 89 | 85.5 | 89.8 | 86.6 NM_000541.2 |
| 87.4 | 83.1 | 71.7 | 81.6 NM_018666.1 |
| 92.7 | 86.3 | 78.1 | 82.8 NM_172311.1 |
| 86.6 | 96.1 | 87.5 | 86.9 NM_002968.1 |
| 95.1 | 92.8 | 83.3 | 97.5 NM_005407.1 |
| 133.7 | 122.6 | 110.1 | 129.3 NM_171999.1 |
| 112.8 | 115.5 | 119.6 | 121.4 NM_020436.2 |
| 138.6 | 123.8 | 117.8 | 122.9 NM_138352.1 |
| 93.1 | 105.4 | 97.9 | 85.5 NM_080621.3 |
| 116.3 | 109.4 | 107 | 98.1 NM_152486.2 |
| 90.6 | 90.6 | 87.3 | 92.6 NM_207506.1 |
| 108.3 | 113.1 | 100.4 | 113.1 NM_001010971.1 |
| 92.9 | 109.7 | 109.3 | 98.7 NM_174920.2 |
| 83.5 | 87 | 90.4 | 90.1 NM_001017373.2 |
| 95.2 | 92.1 | 103.4 | 100.1 NM_152552.1 |
| 86.9 | 89.3 | 85.9 | 84.2 NM_001017373.2 |

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| 89.2 | 81.7 | 81.1 | 85 NM_015589.3 |
| 143.4 | 162.9 | 155 | 169.1 NM_018028.2 |
| 104.5 | 94.1 | 99 | 90.7 NM_182610.1 |
| 105.2 | 91.7 | 93.8 | 88.1 NM_144660.1 |
| 401.7 | 325.6 | 296 | 284.5 NM_017654.2 |
| 122.8 | 183.4 | 173.1 | 170.2 NM_152703.2 |
| 126 | 167.5 | 120.1 | 138.3 NM_015474.2 |
| 2370.3 | 1817.5 | 1822.4 | 975.5 NM_015380.3 |
| 91 | 93.6 | 90.5 | 93.5 NM_022136.3 |
| 476.9 | 469.4 | 425 | 315.8 NM_024545.2 |
| 288.6 | 307.5 | 262.4 | 241.3 NM_005870.3 |
| 878.4 | 404 | 383.3 | 449.6 NM_003864.1 |
| 151.6 | 151 | 129.9 | 134.9 NM_013260.5 |
| 363.3 | 285 | 238.2 | 219.6 NM_014931.2 |
| 92.6 | 80.9 | 92.7 | 94.4 NM_014678.3 |
| 459.1 | 527.8 | 522.9 | 378.4 NM_018312.3 |
| 213.9 | 174.8 | 146.8 | 147.2 NM_020150.3 |
| 92.5 | 100.9 | 101.9 | 85.5 NM_001033503.1 |
| 1203.3 | 701.1 | 535.9 | 664.4 NM_016103.2 |
| 333.5 | 245.2 | 194.6 | 205.5 NM_001033503.1 |
| 93.9 | 95 | 82.1 | 88.7 NM_007101.2 |
| 82.4 | 82 | 84.9 | 83 NM_015077.1 |
| 308.4 | 169.5 | 163.8 | 156.5 NM_006513.2 |
| 314.3 | 206.2 | 216.2 | 142 NM_017827.2 |
| 92.9 | 91.9 | 103.4 | 98.1 NM_005146.3 |
| 80.4 | 82.5 | 80 | 81.4 NM_013352.1 |
| 84.3 | 85.3 | 90.6 | 83.8 NM_013352.1 |
| 203.3 | 225.6 | 208.3 | 227.3 NM_013352.1 |
| 132.3 | 122.2 | 116.3 | 112.1 NM_014706.2 |
| 85.6 | 83 | 79.3 | 89.3 NM_020368.1 |
| 484.1 | 740.8 | 627.9 | 600.9 NM_015278.3 |
| 320.3 | 207 | 186.4 | 179.5 NM_194292.1 |
| 90.4 | 92.3 | 76.9 | 85.2 NR_002438.1 |
| 565.9 | 960.8 | 941.4 | 802.3 NM_002970.1 |
| 148.2 | 159.5 | 163.9 | 145.8 NM_133491.2 |
| 170.1 | 135 | 126.5 | 144.8 NM_002971.2 |
| 1379.5 | 1536.2 | 1135.2 | 1127.1 NM_015265.1 |
| 91.4 | 93.1 | 100.1 | 86.6 NM_001012980.1 |
| 204.8 | 167.5 | 141.1 | 164.1 NM_021818.2 |
| 375.7 | 297 | 246.9 | 262.3 NM_016038.2 |
| 221.7 | 193.1 | 186.1 | 150.9 NR_001588.1 |
| 88.7 | 93.2 | 87.7 | 79.3 NM_058173.1 |
| 476.2 | 567.5 | 582.2 | 267 NM_002972.1 |
| 101.7 | 108 | 99.2 | 99.4 NM_030962.2 |
| 76.1 | 76 | 73.4 | 75.5 NM_001024401.2 |
| 112.2 | 98.8 | 109.5 | 96.7 NM_001024401.2 |
| 115.7 | 97.4 | 93.4 | 104 NM_018183.2 |
| 110.9 | 110 | 98.6 | 91.3 NM_178121.2 |
| 92.9 | 92.4 | 83.4 | 103 NM_198538.1 |
| 199.2 | 193.5 | 170.1 | 185.3 NM_006745.3 |

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| 370.7 | 372 | 519.9 | 330.4 NM_006745.3 |
| 83.8 | 94.4 | 85 | 89.5 NM_001017369.1 |
| 578.5 | 391.1 | 435.3 | 396.4 NM_006918.3 |
| 238 | 173.5 | 178 | 186.6 NM_006455.2 |
| 1247.7 | 1161.5 | 1156.3 | 915.2 NM_052822.2 |
| 129.6 | 125.3 | 109.5 | 136.9 NM_004866.3 |
| 247.5 | 241.4 | 224.3 | 178.8 NM_005697.3 |
| 144.3 | 117.2 | 118.8 | 106.2 NM_005698.2 |
| 2067.6 | 1024.4 | 1049.9 | 589.5 NM_052837.1 |
| 123.7 | 124.7 | 128.7 | 113 NM_079834.2 |
| 243.6 | 267.2 | 282.7 | 259.1 NM_138967.2 |
| 561.2 | 468.7 | 412.7 | 333 NM_033630.1 |
| 236.4 | 171.2 | 142.5 | 122.6 NM_016558.2 |
| 989 | 795 | 758.8 | 491.8 NM_033630.1 |
| 579.7 | 586.8 | 618.9 | 268.1 NM_012235.2 |
| 83.8 | 87.5 | 74.9 | 86.2 NM_003726.2 |
| 87.9 | 87.4 | 93.1 | 96.7 NM_182826.1 |
| 94.7 | 92.4 | 85.4 | 84.6 NM_182826.1 |
| 78.9 | 86 | 81.2 | 79.3 NM_016240.2 |
| 94.6 | 88.7 | 83 | 93.3 NM_173833.3 |
| 693.8 | 757 | 691.8 | 654.3 NM_005505.3 |
| 1590.4 | 2212.9 | 1935.1 | 1310.6 NM_005506.2 |
| 91.1 | 86.9 | 88.8 | 86.4 NM_145351.1 |
| 98.4 | 86.3 | 78.6 | 86.1 NM_145350.1 |
| 96.2 | 90.8 | 84.3 | 91.4 NM_153334.3 |
| 79.9 | 77.1 | 72.7 | 82.8 NM_153334.3 |
| 79.3 | 81.4 | 83.6 | 83.9 NR_003011.1 |
| 356 | 428.6 | 323.3 | 373.2 NM_015200.1 |
| 165.3 | 152.3 | 149.9 | 141.5 NM_016002.2 |
| 4636.7 | 3977.1 | 4554.7 | 3798 NM_005063.4 |
| 123.2 | 111.8 | 92.4 | 105.8 NM_024906.1 |
| 86.5 | 77.2 | 88.2 | 93.9 NM_001037582.1 |
| 209.9 | 130.9 | 128.6 | 124.7 NM_001037582.1 |
| 126.8 | 99.2 | 106.9 | 106.3 NM_198533.1 |
| 104.4 | 88.7 | 97.6 | 94.9 NM_003843.2 |
| 1027.3 | 926.6 | 844.8 | 601.1 NM_182835.1 |
| 94.8 | 85.6 | 84.4 | 91.1 NM_016106.2 |
| 94 | 99.4 | 101.1 | 86.8 NM_152540.3 |
| 89.1 | 88.1 | 86.3 | 89.5 NM_003469.3 |
| 148.1 | 150.4 | 122.7 | 127.6 NM_013243.2 |
| 116.8 | 100.9 | 110.3 | 111.9 NM_003020.1 |
| 88.4 | 94.3 | 85.5 | 92.8 NM_003357.3 |
| 99.9 | 90.2 | 94.1 | 94.2 NM_145651.1 |
| 114.3 | 104.9 | 102 | 91.9 NM_006552.1 |
| 86.7 | 83 | 85.2 | 84.7 NM_006551.3 |
| 86.4 | 90.3 | 88.9 | 85.2 NM_206998.1 |
| 95.1 | 86.9 | 82.7 | 96.4 NM_002407.1 |
| 89.2 | 94.5 | 94 | 99.2 NM_002411.1 |
| 97.9 | 94.5 | 92 | 89.3 NM_052863.2 |
| 83.7 | 82.6 | 78.6 | 71.2 NM_054023.2 |

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| 87.7 | 90.3 | 93.9 | 96.3 NM_006998.3 |
| 115.1 | 104.8 | 114.9 | 107.3 NM_014575.1 |
| 133.4 | 139.7 | 134.9 | 128.3 NM_033128.1 |
| 196.7 | 167.5 | 149.9 | 145.2 NM_016510.3 |
| 126.5 | 197.5 | 164.9 | 148.8 NM_001031694.1 |
| 727.6 | 612.1 | 910.8 | 448.2 NM_001031694.1 |
| 146.1 | 223 | 243.1 | 269.8 NM_012236.1 |
| 275.8 | 301.9 | 251.7 | 273.1 NM_001031694.1 |
| 85.8 | 87.2 | 84 | 90.7 NM_006746.3 |
| 99.6 | 95 | 105.1 | 96.9 NM_001037540.1 |
| 82.4 | 82.2 | 76.7 | 76.8 NM_001037540.1 |
| 204.1 | 155.4 | 136.6 | 155.5 NM_006089.1 |
| 93.1 | 88.7 | 93.8 | 89.2 NM_198081.1 |
| 84.6 | 85.3 | 87.8 | 94.2 NM_006514.1 |
| 93.5 | 81 | 81.6 | 88 NM_014139.1 |
| 86.5 | 79.3 | 84.5 | 82.1 NM_006920.2 |
| 102.1 | 93 | 101.1 | 96.7 NM_199037.2 |
| 91.6 | 96.8 | 87.2 | 89.8 NM_199037.2 |
| 91.2 | 95.4 | 89.2 | 87.8 NM_021007.1 |
| 99.9 | 84 | 87.9 | 93.3 NM_021007.1 |
| 88.7 | 88.2 | 86.4 | 92.6 NM_021007.1 |
| 91.7 | 81.7 | 88.2 | 87.9 NM_004588.3 |
| 87.6 | 78.3 | 79.4 | 80.7 NM_006922.2 |
| 311.4 | 271.9 | 269.8 | 206.5 NM_006922.2 |
| 101.7 | 98.4 | 89.1 | 96.7 NM_006922.2 |
| 83.1 | 83.4 | 85.7 | 92.3 NM_018400.2 |
| 91.5 | 92.8 | 85 | 81.4 NM_018400.2 |
| 95.8 | 95.2 | 80.3 | 91 NM_000334.3 |
| 83.9 | 90.8 | 90.1 | 97.7 NM_174934.1 |
| 88.8 | 85.2 | 88.4 | 85.4 XM_940695.1 |
| 87 | 80.7 | 73.4 | 88.2 NM_000335.3 |
| 100.5 | 97.9 | 101.6 | 85.8 NM_002976.1 |
| 97.4 | 91.4 | 91.7 | 84.6 NM_014191.1 |
| 94.2 | 90.9 | 87.8 | 98.3 NM_002977.1 |
| 728.6 | 522.4 | 522.7 | 411.5 NM_024041.2 |
| 1323.1 | 894.9 | 863.6 | 565.4 NM_024041.2 |
| 108 | 95.7 | 97.6 | 93 NM_001038.4 |
| 90.8 | 94.6 | 96.1 | 90 NM_000336.1 |
| 148.2 | 162.3 | 172 | 118.6 NM_002978.2 |
| 91.6 | 89 | 86.8 | 85.1 NM_001039.2 |
| 581.3 | 404.2 | 394.1 | 273.9 NM_004589.1 |
| 1089 | 774.7 | 705.8 | 473 NM_005138.1 |
| 570.9 | 408.2 | 309.6 | 481.7 NM_032547.1 |
| 1168 | 674.3 | 584.4 | 535.8 NM_016479.3 |
| 100 | 86.8 | 88.7 | 86.4 NM_001007098.1 |
| 219.7 | 255.2 | 229.2 | 228.6 NM_002979.3 |
| 1275.1 | 2088.9 | 2209.1 | 1783.8 NM_021626.1 |
| 100.8 | 87.2 | 87.9 | 93.8 NM_007281.1 |
| 113.2 | 104.3 | 93.5 | 111 NM_015356.3 |
| 782.7 | 588.1 | 555.7 | 337.1 NM_015356.3 |

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| 110.5 | 108.2 | 113.3 | 111.9 NM_182706.2 |
| 92.9 | 83.4 | 81.9 | 85.3 NM_152358.2 |
| 119.5 | 126.1 | 141.7 | 126.6 NM_014766.2 |
| 111.6 | 119.1 | 111.9 | 110.8 NM_138355.2 |
| 116.5 | 107.4 | 94.6 | 107.9 NM_024583.2 |
| 98.7 | 87 | 90.8 | 90.2 NM_031309.3 |
| 98.5 | 87.2 | 89.2 | 92.9 NM_033129.1 |
| 85.4 | 86.4 | 79.8 | 89.3 NM_021920.2 |
| 84.3 | 83 | 94.2 | 89.7 NM_002980.1 |
| 114.8 | 109 | 106.6 | 116.8 NM_173050.1 |
| 92 | 98.6 | 95.4 | 100.3 NM_020974.1 |
| 93.6 | 93.7 | 87.9 | 93.2 NM_152753.2 |
| 92.6 | 95.8 | 87.3 | 96.6 NM_004757.2 |
| 288.6 | 262.1 | 217.5 | 151.3 NM_020680.2 |
| 684.9 | 570.7 | 503.6 | 345.9 NM_020680.2 |
| 138.8 | 125 | 129 | 143.9 NM_152281.1 |
| 575.1 | 453.4 | 415.8 | 436.8 NM_017988.4 |
| 136.2 | 125.5 | 115.1 | 123.3 NM_020423.4 |
| 131.9 | 127.8 | 109 | 118.1 NM_181093.1 |
| 94.6 | 89.1 | 74.4 | 82.8 NM_181093.1 |
| 2274.1 | 1314.6 | 807.4 | 1072.5 NM_018115.1 |
| 88.1 | 91.1 | 82.5 | 89.5 NM_002997.4 |
| 104.2 | 102.2 | 111.5 | 104.3 NM_002997.4 |
| 91.9 | 88.4 | 92.5 | 104 NM_001006946.1 |
| 135.4 | 127.3 | 100 | 104.6 NM_002998.3 |
| 97.2 | 81.9 | 97 | 92.1 NM_014654.2 |
| 106.2 | 98.2 | 95.2 | 112.8 XM_944729.1 |
| 129.9 | 105.8 | 95.9 | 97.3 NM_002999.2 |
| 1496.7 | 1488.5 | 923.7 | 1552.5 NM_001007067.1 |
| 93.3 | 90.8 | 94.6 | 89 NM_080489.2 |
| 91.4 | 78.4 | 82.8 | 83.8 NM_015685.3 |
| 83.4 | 82.4 | 77.8 | 79.8 NM_015685.3 |
| 86.4 | 82.3 | 84.5 | 84.7 NM_080489.2 |
| 402.2 | 471.5 | 366.1 | 445.7 NM_004713.2 |
| 981.3 | 980.5 | 880.3 | 547.2 NM_005869.2 |
| 689.4 | 411.1 | 423.2 | 290 NM_001039708.1 |
| 103 | 96.5 | 102.9 | 87.8 NM_001039707.1 |
| 1922.5 | 1052 | 1119.9 | 652 NM_006643.2 |
| 276.3 | 308.1 | 217.9 | 236.8 NM_005786.3 |
| 187.2 | 234.6 | 244.7 | 213.7 NM_006642.1 |
| 997.9 | 819.7 | 787.9 | 728.8 NM_006923.2 |
| 5640.1 | 4401.9 | 4290.6 | 2323.9 NM_022044.2 |
| 1022.8 | 972.3 | 825.5 | 745.8 NM_016547.1 |
| 86.6 | 85.1 | 88.7 | 86.4 NM_016547.1 |
| 621.2 | 600.7 | 545 | 517.7 NM_016176.2 |
| 441.8 | 308.3 | 302.6 | 301.6 NM_012428.1 |
| 90.7 | 89.6 | 93 | 92.5 NM_012428.1 |
| 973.8 | 946.3 | 803.1 | 573.3 NM_004168.1 |
| 122.7 | 145.7 | 162.5 | 130.2 NR_003263.1 |
| 2950.9 | 2782.1 | 2393.4 | 1981.7 NM_003000.1 |

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| 339.6 | 332.5 | 279.9 | 229.8 NM_001035513.1 |
| 750.1 | 789.1 | 554 | 631.3 NM_003002.1 |
| 88.6 | 88.5 | 83 | 96.5 NM_152744.2 |
| 93.2 | 107.9 | 99.6 | 102.5 NM_152744.2 |
| 82.5 | 82.6 | 82.5 | 76 NM_019064.3 |
| 110.1 | 99.5 | 103.1 | 96.8 NM_004657.4 |
| 84.7 | 91.1 | 84.1 | 82 NM_148897.1 |
| 97 | 113 | 125.1 | 101 NM_006843.2 |
| 387.2 | 623.7 | 583.9 | 346.3 NM_138432.2 |
| 88.5 | 87.5 | 90.7 | 88.6 NM_001080837.1 |
| 122.7 | 122.7 | 114.6 | 110 NM_006544.2 |
| 4779.4 | 5336.8 | 5246.7 | 3852.8 NM_014300.2 |
| 313.8 | 239.7 | 261 | 288.5 NM_033280.1 |
| 114.7 | 119.4 | 120.5 | 109.2 NM_003003.2 |
| 147.2 | 138.7 | 143.1 | 116.1 NM_003003.2 |
| 99.8 | 95.3 | 81.4 | 94.4 NM_012429.1 |
| 92.8 | 86.5 | 77.9 | 77 NM_174975.3 |
| 83.8 | 78.6 | 68.7 | 83 NM_174977.2 |
| 738.9 | 774.7 | 740.8 | 558.1 NM_004206.2 |
| 299.2 | 258.5 | 224.6 | 194.6 NM_004206.2 |
| 796.6 | 540.9 | 479.3 | 483.3 NM_004892.3 |
| 515.2 | 401.1 | 392.6 | 391.7 NM_012430.2 |
| 169.7 | 139.6 | 152.9 | 126.7 NM_032970.2 |
| 87.2 | 86.2 | 77.9 | 82.3 NM_006364.2 |
| 508.1 | 506.9 | 434.6 | 334.3 NM_032985.3 |
| 669.9 | 664 | 528.4 | 463.6 NM_032985.4 |
| 444 | 369.8 | 249.5 | 274.3 NM_007190.2 |
| 128.1 | 122.3 | 131.5 | 129.9 NM_021982.1 |
| 209.5 | 189.5 | 158.2 | 188.7 NM_001042734.1 |
| 89.1 | 78.6 | 79 | 83.7 NM_006323.1 |
| 146.1 | 127.5 | 123.8 | 135.3 NM_006323.1 |
| 116 | 106.9 | 111.7 | 108.3 XM_945425.1 |
| 1747.3 | 1135.8 | 1108.6 | 707 NM_198597.1 |
| 126.7 | 122.7 | 119.1 | 96.8 NM_004922.2 |
| 246.4 | 205.1 | 189.6 | 193.2 NM_014822.1 |
| 109.8 | 109.5 | 112.8 | 102.9 NM_014933.2 |
| 620.5 | 669.6 | 566.6 | 533.3 NM_014933.2 |
| 88.7 | 86.9 | 88.1 | 91 NM_015490.3 |
| 80.4 | 89.4 | 83 | 84.1 NM_198138.1 |
| 2933.7 | 3246.8 | 3273.2 | 1741.6 NM_013336.3 |
| 124.7 | 101.1 | 98.3 | 97.4 NM_018144.2 |
| 4073.1 | 2324.4 | 2680.1 | 2143.4 NM_006808.2 |
| 7573.8 | 5866.8 | 3933.4 | 4045.1 NM_001012456.1 |
| 6523.3 | 4879 | 3566.8 | 3847.1 NM_014302.3 |
| 128.6 | 146 | 123.2 | 148 NM_007214.3 |
| 531 | 448.5 | 452.4 | 404.3 NM_007277.3 |
| 104.9 | 96.5 | 102.9 | 95.3 NM_021807.2 |
| 307.4 | 402.5 | 417.5 | 301.7 NM_024077.2 |
| 83.3 | 86.4 | 80.2 | 80.9 NM_003004.1 |
| 307.9 | 208.8 | 260.1 | 230.3 NR_002166.1 |

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| 403.4 | 363.3 | 261.5 | 275.3 NM_031216.3 |
| 272.4 | 217.9 | 139.3 | 186.1 NM_031216.3 |
| 523.6 | 468.8 | 367 | 327.1 NM_001013437.1 |
| 112.8 | 134.6 | 137.8 | 121.9 NM_005065.3 |
| 93.8 | 94 | 88.1 | 90.5 NM_000450.1 |
| 86.5 | 98.3 | 90.6 | 84.9 NM_003944.2 |
| 235.2 | 252.8 | 248.9 | 185 NM_033505.1 |
| 681.1 | 554.1 | 495.9 | 497.6 NM_021237.3 |
| 93.3 | 95.2 | 87 | 88 NM_000655.2 |
| 89.1 | 89.3 | 82.4 | 91.9 NM_080430.2 |
| 228.9 | 267.5 | 281.5 | 207.6 NM_031454.1 |
| 92.6 | 92.9 | 87.9 | 100.9 NM_003005.2 |
| 93.1 | 107.9 | 105.9 | 101.7 NM_003006.3 |
| 98.9 | 91.6 | 99 | 94.7 NM_203472.1 |
| 2522.7 | 2478.5 | 2254.9 | 1657.7 NM_018445.4 |
| 765.4 | 803 | 780.5 | 680.7 NM_203472.1 |
| 93.4 | 90.4 | 88.6 | 80.3 NM_016275.3 |
| 91.7 | 84.1 | 85.4 | 82.3 NM_182704.1 |
| 95.1 | 91.2 | 92.2 | 87 NM_006080.1 |
| 103.6 | 88.3 | 89.5 | 88 NM_001005914.1 |
| 82.1 | 87.7 | 83.3 | 90.3 NM_001005914.1 |
| 91.7 | 90.4 | 92.3 | 85.3 NM_006379.2 |
| 81.2 | 75.3 | 73.9 | 77.8 NM_152754.2 |
| 1033.6 | 1191.7 | 1470.5 | 1654.2 NM_012431.1 |
| 110.8 | 101.9 | 111.6 | 103.2 NM_004186.2 |
| 99.5 | 94.6 | 81.5 | 89.2 NM_020163.1 |
| 549.7 | 477.4 | 353.1 | 312.8 NM_022367.2 |
| 168.8 | 156.6 | 149.5 | 142.8 NM_020210.2 |
| 83.1 | 88.1 | 84.4 | 84.2 NM_020210.2 |
| 108.7 | 122.1 | 100.9 | 105.2 NM_017789.3 |
| 436.7 | 587.7 | 556.1 | 410.3 NM_006378.2 |
| 156 | 146.2 | 122.5 | 114.9 NM_004263.2 |
| 81.5 | 85 | 84.9 | 92.5 NM_017893.2 |
| 99.5 | 89.6 | 82.4 | 93.3 NM_003966.1 |
| 90 | 89.8 | 84.8 | 88.9 NM_001031702.1 |
| 112.2 | 93.8 | 90.9 | 95.4 NM_020241.2 |
| 84.8 | 84.7 | 90.6 | 88.1 NM_032108.2 |
| 101.4 | 90.8 | 91.1 | 89.1 NM_133327.1 |
| 91.1 | 93.1 | 84.9 | 91.9 NM_030913.3 |
| 90.3 | 89.3 | 77.8 | 91.6 NM_153618.1 |
| 87.9 | 90.1 | 81.2 | 81.7 NM_024966.2 |
| 92.5 | 86.1 | 89.5 | 91.4 NM_024966.2 |
| 96.5 | 86.3 | 92 | 95.8 NM_003612.1 |
| 160.8 | 220.8 | 198.6 | 171.4 NM_198139.1 |
| 138.6 | 172.3 | 137.2 | 148.6 NM_003007.2 |
| 93.6 | 82.3 | 83.5 | 88.3 NM_003008.2 |
| 210.1 | 242.4 | 209.9 | 219.2 NM_021627.2 |
| 85.9 | 88.9 | 81.2 | 88.6 NM_015670.3 |
| 122.8 | 111.7 | 118.4 | 113 NM_152699.2 |
| 97.8 | 96.7 | 92.5 | 98.8 NM_015571.1 |

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| 89 | 92.9 | 87.1 | 80.8 NM_020654.2 |
| 130.3 | 164.2 | 163.5 | 154.2 NM_001077203.1 |
| 92.3 | 82.8 | 80.9 | 84.9 NM_145204.2 |
| 2775.9 | 1753.5 | 1881 | 1860.7 NM_004261.3 |
| 739.1 | 439 | 398.8 | 343.3 NM_012247.3 |
| 400.1 | 291.5 | 275.3 | 228.8 NM_012248.2 |
| 102.5 | 94.6 | 93.5 | 89.1 NM_020451.2 |
| 161.9 | 151.6 | 159 | 120 NM_020451.2 |
| 640.9 | 747.8 | 666.7 | 562.4 NM_206926.1 |
| 89.9 | 88.7 | 82.6 | 87 NM_005410.2 |
| 88.9 | 102.7 | 83.8 | 81.9 NM_052838.2 |
| 89.5 | 84.9 | 87 | 83.1 NM_144710.2 |
| 85 | 86.4 | 78.9 | 77.5 NM_144710.2 |
| 602.6 | 362 | 337.9 | 391 NM_018243.2 |
| 5622.8 | 5744.9 | 5676 | 3791.6 NM_004404.3 |
| 6135 | 5163.9 | 4261.5 | 4145 NM_001008491.1 |
| 114.5 | 110.6 | 108.2 | 99.5 NM_001008492.1 |
| 113.1 | 110.3 | 107.1 | 108.4 NM_001008491.1 |
| 414.8 | 493.1 | 455.3 | 277.1 NM_019106.4 |
| 198.5 | 236.1 | 191.4 | 179.8 NM_019106.4 |
| 120.6 | 114.5 | 119.1 | 101.8 NM_080415.1 |
| 124.1 | 122.8 | 118.4 | 101 NM_080417.1 |
| 89.8 | 91.1 | 88.4 | 86.1 NM_080416.1 |
| 89.6 | 87.6 | 79.6 | 82.7 NM_004574.2 |
| 105.1 | 97.5 | 101.9 | 97.4 NM_002688.3 |
| 95.8 | 91.5 | 86.8 | 93.1 NM_145802.2 |
| 140 | 179.6 | 153 | 177.8 NM_145799.2 |
| 214.9 | 281.4 | 290.5 | 230.5 NM_145800.2 |
| 135.7 | 115.4 | 126.3 | 138.4 NM_001011553.1 |
| 2520 | 3290.8 | 3144.4 | 1806.6 NM_006640.2 |
| 456.8 | 277.4 | 241.4 | 188.9 NM_003009.2 |
| 4004.9 | 3233.5 | 2899 | 2104.9 NM_016332.2 |
| 91.5 | 95.1 | 88.4 | 93.9 NM_032861.2 |
| 100.8 | 87.4 | 85.2 | 85.5 NM_021967.1 |
| 90.6 | 80.4 | 95.4 | 90.1 NM_021967.1 |
| 84.6 | 75 | 77.6 | 78.1 NM_022978.1 |
| 6729 | 7269 | 7202.2 | 5136.3 NM_001018108.1 |
| 322.6 | 276.5 | 261.1 | 218.9 NM_012139.2 |
| 103.1 | 89.8 | 92.2 | 94.8 NM_170694.1 |
| 91.7 | 97.5 | 94.4 | 92.9 NM_014509.3 |
| 416.7 | 414.4 | 430.7 | 418.1 NM_020755.2 |
| 96.9 | 121.5 | 101.5 | 107.6 NM_178865.3 |
| 115.7 | 102.8 | 121.6 | 117.4 NM_198941.1 |
| 115.7 | 92.2 | 97.4 | 101.2 NM_006811.2 |
| 1064.6 | 1231.9 | 1193.7 | 960.6 NM_198941.1 |
| 86.3 | 88.8 | 85.2 | 83.5 NM_001033517.1 |
| 91.1 | 90.8 | 91.2 | 88.8 NM_178276.2 |
| 279.1 | 235.9 | 211.3 | 212.4 NM_014445.2 |
| 122.8 | 126.6 | 127.2 | 116.7 NM_001002236.1 |
| 78.6 | 81 | 90.2 | 82.4 NM_001002236.1 |

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| 99.7 | 101.1 | 98.7 | 106 NM_001002235.1 |
| 93.7 | 90.6 | 88.3 | 92.3 NM_000295.3 |
| 78 | 85.7 | 80.4 | 83.1 NM_016186.1 |
| 97.8 | 96 | 90.4 | 94.7 NM_001080451.1 |
| 89.2 | 83.9 | 80.7 | 80.2 XM_940101.1 |
| 95.9 | 87.5 | 87.1 | 89.8 NM_173850.2 |
| 86.2 | 77.8 | 82.1 | 85.3 NM_207378.1 |
| 94.8 | 81.5 | 91.5 | 82.7 NM_001085.4 |
| 98.4 | 90.2 | 90.3 | 89.7 NM_006215.2 |
| 78.5 | 77.3 | 70.4 | 83 NM_000624.3 |
| 83.3 | 82.7 | 82.3 | 81.9 NM_001756.3 |
| 89 | 92.3 | 90.7 | 93.7 NM_000354.3 |
| 97.9 | 99.2 | 100.3 | 91.8 NM_175739.2 |
| 82.3 | 78.8 | 84.8 | 89.9 NM_001042518.1 |
| 403 | 485.9 | 501.8 | 392.5 NM_030666.2 |
| 185.8 | 244.1 | 208.8 | 188 NM_005024.1 |
| 99 | 90.9 | 91.6 | 98.2 NM_080475.1 |
| 78.8 | 76.4 | 77.3 | 77.3 NM_080474.1 |
| 79.3 | 77.4 | 73.7 | 75.6 NM_012397.2 |
| 254.2 | 282.6 | 222.9 | 257.6 NM_002575.1 |
| 82.7 | 86.4 | 80.5 | 84.4 NM_006919.1 |
| 81.6 | 80.6 | 86.6 | 81.9 NM_002974.1 |
| 94.2 | 86.8 | 95 | 83.3 NM_002639.2 |
| 1177.1 | 807.4 | 819.7 | 461.1 NM_004568.4 |
| 81.4 | 86 | 82.1 | 82.5 NM_003784.1 |
| 92.1 | 87.1 | 89.9 | 96.5 NM_003784.1 |
| 675.9 | 456.3 | 410.7 | 297.9 NM_002640.3 |
| 585.7 | 425.7 | 382.8 | 284.6 NM_001031848.1 |
| 88.4 | 85.1 | 93.9 | 85.8 NM_004155.3 |
| 103.3 | 86 | 89.6 | 94.3 NM_000488.2 |
| 89.8 | 89.2 | 90.1 | 95.2 NM_000185.3 |
| 93.1 | 89.4 | 96.2 | 91.7 NM_000602.1 |
| 638.9 | 518.7 | 434.1 | 326.2 NM_006216.2 |
| 271.5 | 473.3 | 428.4 | 290.9 NM_002615.4 |
| 89.1 | 78.5 | 89.5 | 86 NM_000934.1 |
| 96.9 | 90.7 | 91 | 98.7 NM_000062.2 |
| 108 | 94.8 | 93.4 | 92.8 NM_000062.2 |
| 449.3 | 291.8 | 290.1 | 208.1 NM_001235.2 |
| 89.3 | 86.8 | 84.5 | 95.6 NM_005025.2 |
| 131.9 | 125.6 | 138.9 | 146.7 NM_006217.3 |
| 347.2 | 249.1 | 229.5 | 171.8 NM_013376.1 |
| 1507.7 | 1294.5 | 1211.4 | 753.6 NM_014755.1 |
| 341.1 | 326.5 | 285.9 | 243 NM_203344.1 |
| 89 | 93.1 | 84.1 | 81.2 NM_013368.2 |
| 153.8 | 138.9 | 114.6 | 125.2 NM_203344.1 |
| 100.2 | 103.9 | 90.8 | 93 NM_019605.2 |
| 381.7 | 349.9 | 322.8 | 366.1 NM_014454.1 |
| 96.6 | 104.6 | 99.4 | 102.3 NM_031459.3 |
| 137.4 | 151.6 | 113.7 | 125.9 NM_144665.2 |
| 319.8 | 357.6 | 252.2 | 290.6 NM_178123.3 |

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| 1705.1 | 1189.9 | 826 | 826.8 NM_003011.1 |
| 90.5 | 92.9 | 92.5 | 92.9 NM_030648.1 |
| 109.3 | 102.5 | 98.5 | 96.2 NM_015559.1 |
| 478.6 | 424.8 | 405.7 | 352 NM_014712.1 |
| 191.9 | 138.8 | 134.4 | 120.5 NM_199123.1 |
| 104.9 | 101.5 | 90.2 | 100.6 NM_199123.1 |
| 2825.5 | 3114.4 | 2702.8 | 1669 NM_032233.2 |
| 234.1 | 160.2 | 149.7 | 130 NM_001007260.1 |
| 80.8 | 80.6 | 82.2 | 76.5 NM_024860.1 |
| 366 | 329.9 | 303.6 | 251.3 NM_020382.3 |
| 515.6 | 530.5 | 477.3 | 462.7 NM_012432.2 |
| 240.3 | 500 | 483.8 | 425.3 NM_031915.1 |
| 672.6 | 522.9 | 416.9 | 320 NM_006515.1 |
| 137 | 164.5 | 148.4 | 139.1 NM_015046.4 |
| 88.9 | 87.2 | 87.4 | 92.6 NM_178860.3 |
| 78.9 | 77.7 | 71.3 | 75.4 NM_021115.3 |
| 101.4 | 99.4 | 96.1 | 88.4 NM_201575.1 |
| 85.2 | 82.6 | 83 | 87.4 XM_939114.1 |
| 1311.5 | 1709.8 | 1568.5 | 859.3 NM_201575.1 |
| 104.7 | 112.2 | 110.7 | 129.7 NM_201997.1 |
| 113.6 | 140 | 165.7 | 134.4 NM_201997.1 |
| 139.4 | 132.9 | 128.8 | 123.7 NM_004630.2 |
| 101.9 | 111.7 | 105.5 | 103.2 NM_005877.4 |
| 455.2 | 515.1 | 388.3 | 367.8 NM_001005409.1 |
| 2009.6 | 1179.6 | 987.7 | 977.2 NM_007165.4 |
| 1536.3 | 1736 | 1691.2 | 807.7 NM_006802.2 |
| 104.8 | 97.3 | 102.3 | 96.8 NM_001005526.1 |
| 2082.6 | 2455 | 1836.5 | 1702 NM_012433.2 |
| 300.5 | 310.3 | 292.5 | 256.3 NM_001005526.1 |
| 684.7 | 477.6 | 468.4 | 378.4 NM_016047.3 |
| 1154.5 | 1039.3 | 994.6 | 797.8 NM_006842.2 |
| 729.5 | 561.4 | 574.9 | 363 NM_012426.3 |
| 2933.3 | 1495.7 | 1489.2 | 1066.4 NM_005850.3 |
| 2917.4 | 2334.7 | 2210.8 | 1911.4 NM_031287.2 |
| 438.9 | 386.2 | 390.7 | 254.5 NM_021164.2 |
| 92.9 | 90.9 | 95.4 | 83 NM_001007467.1 |
| 106.5 | 105.8 | 90 | 100.1 NM_014775.2 |
| 99 | 87.8 | 97.5 | 94 NM_014775.2 |
| 195.1 | 168.6 | 138 | 153.6 NM_001005158.1 |
| 260.2 | 211.5 | 164.8 | 185.7 NM_001005158.1 |
| 85.4 | 78.3 | 83.2 | 86.7 NM_001005159.1 |
| 178.4 | 242.8 | 261.7 | 155.4 NM_001029880.1 |
| 92.3 | 88 | 86.2 | 87.6 NM_006142.3 |
| 128 | 106.1 | 107 | 118.9 NM_005066.1 |
| 268.9 | 586.6 | 480.2 | 559.6 NM_003012.3 |
| 87.4 | 82.2 | 74.5 | 83.1 NM_003013.2 |
| 82.4 | 87.3 | 79.6 | 72.1 NM_003014.2 |
| 86.5 | 86.2 | 82.1 | 86.9 NM_003015.2 |
| 1679.1 | 1036.7 | 1065 | 1329.9 NM_006924.3 |
| 2306.9 | 1264.4 | 1226.4 | 965.2 NM_004593.1 |

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| 166.6 | 189.7 | 147.9 | 175.9 NM_004768.2 |
| 165.1 | 138.4 | 157.3 | 157.6 NM_139168.1 |
| 306.3 | 341.8 | 269.9 | 314.4 NM_001077199.1 |
| 105.9 | 108 | 126.8 | 111.9 NM_001077199.1 |
| 1118.3 | 1160.2 | 1480 | 779.2 NM_014884.1 |
| 538.2 | 470 | 457.2 | 475.5 NM_014884.1 |
| 241.5 | 183.9 | 178.8 | 195.2 NM_001017392.1 |
| 328.7 | 381.9 | 344 | 297.3 NM_020706.1 |
| 131.2 | 155 | 140.9 | 147 NM_007056.1 |
| 11307.5 | 6798.9 | 5734.7 | 5337.6 NM_003016.2 |
| 480.2 | 735.6 | 595.1 | 526.9 NM_004719.2 |
| 90.4 | 84.6 | 76.9 | 84.9 NM_003017.3 |
| 1999.2 | 1991.3 | 1914.3 | 1557.6 NM_005626.3 |
| 2609.2 | 2737 | 2836.4 | 1839.1 NM_006925.2 |
| 2885.8 | 2587.2 | 2540.4 | 1962.9 NM_006925.3 |
| 5013.5 | 3793.7 | 3480.1 | 2693.5 NM_006275.4 |
| 1132.4 | 719.2 | 690.8 | 460.6 NM_001031684.1 |
| 135.1 | 162.3 | 145.2 | 150.1 NM_004592.2 |
| 6430.2 | 5163.4 | 4573.2 | 3740 NM_003769.2 |
| 10039.8 | 9480.3 | 9374.9 | 7723.4 NM_145169.1 |
| 93.9 | 96 | 93.3 | 96.3 NM_199344.1 |
| 124.1 | 123.5 | 112.4 | 101.5 NM_032740.3 |
| 89.8 | 80.5 | 85.2 | 83.5 NM_005411.3 |
| 101 | 89.3 | 86.6 | 83.7 NM_006926.1 |
| 95.5 | 84.3 | 87.5 | 87.4 NM_000542.2 |
| 100.7 | 98.4 | 94 | 95.3 NM_198843.1 |
| 97.9 | 94.6 | 90.9 | 88.4 NM_003018.2 |
| 235.5 | 278.7 | 266.4 | 182 NM_003019.4 |
| 98.8 | 93.6 | 85.9 | 100.7 NM_205854.1 |
| 505.4 | 309.9 | 247.5 | 262 NM_022754.4 |
| 117.3 | 103.3 | 125.7 | 97.7 NM_178858.3 |
| 123.7 | 114.8 | 101.4 | 96.4 NM_030971.3 |
| 783.6 | 478.4 | 471.9 | 375.1 NM_213650.1 |
| 1045.8 | 763 | 716.3 | 395.3 NM_178867.3 |
| 131.3 | 121.8 | 106.9 | 103.8 NM_178867.3 |
| 199.7 | 214.7 | 193.7 | 192.8 NM_144579.1 |
| 110.4 | 103.3 | 104.9 | 91.3 NM_000023.1 |
| 96.6 | 89.2 | 101 | 90.7 NM_000232.3 |
| 93 | 83.9 | 79.7 | 83 NM_000337.4 |
| 91.4 | 87.4 | 83.7 | 84.8 NM_172244.2 |
| 86.6 | 87.2 | 90 | 94.5 NM_172244.2 |
| 92.3 | 88.6 | 88.9 | 92 NM_003919.1 |
| 89.1 | 96.1 | 94.5 | 87 NM_000231.1 |
| 101 | 105.4 | 100.1 | 91.4 NM_139167.1 |
| 77.4 | 88.9 | 85.7 | 82.1 NM_015595.2 |
| 391.5 | 189.4 | 170.1 | 169.8 NM_032291.1 |
| 201.1 | 398.5 | 305 | 267.4 NM_005627.2 |
| 83.2 | 75.9 | 88.7 | 92.2 NM_170693.1 |
| 88.6 | 75.2 | 86.5 | 94 NM_016276.3 |
| 81.7 | 81.2 | 80.9 | 84.3 NM_016276.3 |

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| 86.4 | 80.4 | 69.1 | 77.4 NM_001033578.1 |
| 724.2 | 532.5 | 553.8 | 440.1 NM_170709.1 |
| 472.7 | 400.8 | 369.7 | 308.1 NM_170709.1 |
| 300 | 264.3 | 222.6 | 179.6 NM_001012413.1 |
| 94.7 | 88.4 | 87 | 85.5 NM_152524.3 |
| 124.3 | 127.9 | 114.9 | 110.5 NM_003901.2 |
| 95.9 | 93.9 | 97 | 95 NM_030791.2 |
| 98.7 | 91.5 | 86.3 | 105.2 NM_152386.2 |
| 95.1 | 85.2 | 88.9 | 85.1 NM_152386.2 |
| 160.1 | 200.5 | 171.6 | 159.2 NM_000199.2 |
| 155.3 | 121.1 | 109 | 132.1 NM_003021.3 |
| 122.4 | 119.5 | 100.9 | 113.7 NM_019072.2 |
| 280.1 | 222.9 | 187.2 | 178.3 NM_015503.1 |
| 121.2 | 114.5 | 101.4 | 103 NM_002351.1 |
| 91.8 | 85.9 | 80.9 | 90 NM_053282.4 |
| 96.4 | 90.2 | 91 | 93.3 NM_003975.2 |
| 99.6 | 88.7 | 83.8 | 101.8 NM_005490.1 |
| 166.1 | 148.6 | 176.7 | 140.6 NM_170600.1 |
| 104.6 | 107.3 | 95 | 102.9 NM_005489.1 |
| 88.6 | 89.8 | 86.6 | 91.9 NM_005489.1 |
| 138.8 | 164.7 | 136 | 135.7 NM_022071.2 |
| 86.5 | 78.9 | 82.2 | 72.3 NM_207372.1 |
| 90.9 | 98.2 | 87.2 | 84.5 NM_007341.2 |
| 114.7 | 129.6 | 133 | 133 NM_001001713.1 |
| 75.6 | 76.9 | 75.8 | 78.3 NM_003022.1 |
| 144 | 121.2 | 110.1 | 99.1 NM_031469.1 |
| 1655.6 | 1591.9 | 1399.2 | 1156.8 NM_031286.2 |
| 234.4 | 253.7 | 223.7 | 253.1 NM_018957.2 |
| 105.9 | 108.3 | 97.9 | 111.6 NM_003023.2 |
| 101.8 | 84.2 | 81.3 | 87.2 NM_014521.1 |
| 98.6 | 91.7 | 92 | 95.7 NM_004844.2 |
| 92.1 | 83.2 | 91.6 | 92.7 NM_001018009.1 |
| 347.5 | 347.5 | 365 | 337.8 NM_030645.1 |
| 108.2 | 90.6 | 83.9 | 96 NM_001009555.2 |
| 171.4 | 143.3 | 144.3 | 104.4 NM_003025.2 |
| 112.7 | 103.5 | 114.2 | 103.9 NM_003026.1 |
| 100 | 89.6 | 87.2 | 89.2 NM_003027.2 |
| 1007.7 | 937.5 | 756.9 | 722 NM_016009.2 |
| 1347.7 | 1041.8 | 955.8 | 607.1 NM_020145.2 |
| 5453.1 | 4540.3 | 4007.7 | 2722 NM_031892.1 |
| 97 | 96 | 85.4 | 89.2 NM_001024666.1 |
| 3178.4 | 4288.1 | 3382.5 | 2611.6 NM_001024666.1 |
| 126 | 107.8 | 106.4 | 115.8 NM_020870.2 |
| 123.4 | 144.4 | 110.5 | 132.5 NM_153271.1 |
| 307.6 | 312.6 | 304.9 | 228.6 NM_014631.2 |
| 95.3 | 106 | 88.7 | 100.1 NM_001017995.1 |
| 87.9 | 91.4 | 80.1 | 90.5 NM_152550.2 |
| 112.3 | 134.4 | 126.7 | 131.1 NM_018986.2 |
| 91.6 | 101.7 | 98.2 | 87.6 NM_024577.2 |
| 120 | 138.5 | 145.9 | 125.9 NM_015677.1 |

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| 102.1 | 92 | 86.7 | 97.4 NM_016148.1 |
| 98.1 | 94.7 | 86 | 89.6 NM_133266.1 |
| 93.4 | 93.2 | 81.5 | 85.1 NM_012309.1 |
| 129 | 168.9 | 144.3 | 148.1 NM_001080420.1 |
| 171.2 | 161.5 | 137.5 | 119.5 NM_030974.2 |
| 135.1 | 122.9 | 111 | 115.3 NM_003028.1 |
| 97.5 | 82.6 | 88.9 | 88.2 NM_001040.2 |
| 133.8 | 110.1 | 117.6 | 110.5 NM_183001.3 |
| 79.6 | 93.5 | 91.7 | 97 NM_183001.3 |
| 1338 | 1139.9 | 964.9 | 861.9 NM_003029.3 |
| 89.9 | 82.4 | 90.5 | 77.2 NM_016848.2 |
| 115.6 | 101.4 | 104.1 | 91.8 NM_203349.2 |
| 5315.5 | 5980.1 | 7795.8 | 4715.6 NM_024745.2 |
| 81.1 | 80.2 | 93.6 | 91.9 NM_020209.2 |
| 103.5 | 104.1 | 98.1 | 96.7 NM_001010846.1 |
| 107.7 | 99.9 | 92 | 90.4 NM_138356.2 |
| 10731.6 | 9505.9 | 7731.3 | 7121.8 NM_006304.1 |
| 92.6 | 87.3 | 94.4 | 99.7 NM_000193.2 |
| 219.7 | 183.9 | 170 | 168.3 NM_138392.1 |
| 267.4 | 328.6 | 344.6 | 194 NM_148918.1 |
| 113.1 | 103 | 115.9 | 103.7 NM_148918.1 |
| 125.9 | 122.9 | 112.5 | 110.3 NM_004169.3 |
| 4474 | 2630.3 | 2540.9 | 1790.3 NM_005412.4 |
| 167.6 | 118.6 | 116.7 | 133.4 NM_007373.2 |
| 88.2 | 92 | 91.5 | 87.4 NM_006883.1 |
| 90.6 | 96.2 | 85.3 | 83.9 NM_006883.1 |
| 153.8 | 254.6 | 256.5 | 249.8 NM_006884.1 |
| 90.3 | 99.5 | 87.7 | 96.6 NM_006884.1 |
| 130.6 | 148.3 | 144.5 | 156.2 NM_173082.1 |
| 149.2 | 159 | 172.3 | 156.2 NM_173082.1 |
| 255.4 | 212 | 174.6 | 180.6 NM_018130.2 |
| 97.9 | 100 | 91.7 | 99.1 NM_020859.1 |
| 985.9 | 1301.9 | 1614.4 | 1710.5 NM_020717.2 |
| 88.9 | 89.9 | 82.8 | 90.1 NM_001041.1 |
| 89.6 | 94.4 | 74 | 88.2 NM_170601.3 |
| 92.7 | 92.8 | 83.8 | 81.7 NM_001006610.1 |
| 94.8 | 93.7 | 83.6 | 91.1 NM_003031.3 |
| 420.1 | 427.2 | 404.6 | 282.8 NM_001006610.1 |
| 206.8 | 219.4 | 169.6 | 150.6 NM_005067.5 |
| 5542.1 | 2865.9 | 2756.4 | 1211.9 NM_014281.3 |
| 86.1 | 88.5 | 86.4 | 90.5 NM_017699.1 |
| 422.7 | 391.2 | 379.1 | 213.4 NM_015996.1 |
| 119.6 | 100.9 | 98.5 | 96.7 NM_021805.1 |
| 120.5 | 147.3 | 148.6 | 121.4 NM_021805.1 |
| 126 | 117.6 | 104.2 | 112.6 NM_033130.2 |
| 89.5 | 85.5 | 89.8 | 78.8 NM_052884.1 |
| 118.9 | 101.4 | 106.4 | 92 NM_053003.2 |
| 110.7 | 81.8 | 90.9 | 105.6 NM_053003.2 |
| 85.2 | 94 | 76.5 | 81.5 NM_033329.1 |
| 95.2 | 85.9 | 87.7 | 85.3 NM_003830.1 |

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| 135.9 | 101.3 | 99.7 | 98.7 NM_198845.2 |
| 95.3 | 114.1 | 109.8 | 89.4 NM_014385.1 |
| 91.7 | 91.1 | 86.6 | 91.6 NM_014385.1 |
| 88.6 | 88.3 | 88.3 | 77 NM_016543.2 |
| 92.1 | 89.6 | 88.2 | 97.7 NM_014442.1 |
| 89.2 | 86.6 | 92.5 | 82.6 NM_014441.1 |
| 150.9 | 146.6 | 137.5 | 110.1 NR_002825.1 |
| 93.7 | 99 | 88.7 | 87.2 NR_002804.1 |
| 102.2 | 119.8 | 114 | 107.9 XR_001419.1 |
| 141.7 | 120.1 | 108.2 | 114.9 NM_025073.1 |
| 230.5 | 349.4 | 326.6 | 178.9 NM_001037633.1 |
| 108.9 | 111.8 | 95.2 | 94.6 NM_001037633.1 |
| 563.1 | 925.4 | 872.3 | 489.4 NM_022464.3 |
| 93.5 | 103.1 | 83 | 89.2 NM_006928.3 |
| 84.2 | 92.6 | 83.5 | 79.7 NM_005068.2 |
| 88 | 94.7 | 92.2 | 94 NM_009586.1 |
| 93.4 | 93.4 | 86.5 | 92.2 NM_005069.2 |
| 990.5 | 1283.3 | 1118.6 | 713.1 NM_015477.1 |
| 146.4 | 129 | 126.7 | 134 NM_015260.1 |
| 734 | 471.2 | 393.5 | 345.4 NM_001009182.1 |
| 136.5 | 154.3 | 163.4 | 149.2 NM_153253.28 |
| 778.9 | 887.8 | 918.4 | 283.5 NM_153253.28 |
| 107.1 | 102.3 | 95.6 | 92.3 NM_015556.1 |
| 125.1 | 191.8 | 158 | 137.8 NM_020808.1 |
| 124.2 | 121 | 108.5 | 102.7 NM_015073.1 |
| 151.3 | 156 | 136.2 | 138.5 NM_006065.1 |
| 70.3 | 81.4 | 75.1 | 90.8 NM_018556.2 |
| 108.9 | 116.9 | 100.7 | 120.6 NM_178460.1 |
| 406.3 | 311.8 | 324 | 279.6 NM_080816.2 |
| 84.8 | 94.3 | 86.5 | 95 NM_080816.2 |
| 308 | 227.6 | 209.8 | 248.3 NM_012238.3 |
| 100.2 | 89.5 | 94.5 | 96.4 NM_030593.1 |
| 111.9 | 99.4 | 90.2 | 104.5 NM_030593.1 |
| 82.6 | 84.9 | 82.9 | 84.6 NM_012239.4 |
| 75.9 | 83.1 | 74.1 | 83.2 NM_012239.4 |
| 122.4 | 104.5 | 118 | 115.2 NM_012240.1 |
| 94.4 | 109.7 | 93 | 109.9 NM_031244.1 |
| 115.6 | 108.7 | 102 | 111.6 NM_012241.2 |
| 186.2 | 201.5 | 194.5 | 168.7 NM_012241.2 |
| 99.9 | 92.8 | 98.5 | 94.5 NM_016539.1 |
| 101.3 | 99.3 | 88 | 107.8 NM_014450.2 |
| 2077.2 | 1464.6 | 1620.8 | 761.2 NM_021709.1 |
| 1484.6 | 974.3 | 895.4 | 794.1 NM_006427.2 |
| 89.4 | 88.5 | 82.2 | 95.7 NM_005982.1 |
| 104.5 | 90.3 | 100.4 | 102 NM_016932.3 |
| 110.1 | 90.6 | 101 | 103 NM_005413.1 |
| 109.6 | 112.7 | 111.2 | 99.2 NM_017420.2 |
| 324 | 281.2 | 283.3 | 167.5 NM_175875.3 |
| 83.9 | 93.9 | 79.2 | 91 NM_007374.1 |
| 83.9 | 82 | 79.6 | 92.9 NM_001075099.1 |

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| 184.6 | 191.6 | 163.7 | 189.4 | NM_003930.3 |
| 151.3 | 184.4 | 171.5 | 126.2 | NM_003036.1 |
| 81.6 | 78.5 | 82.5 | 88.3 | NM_005414.2 |
| 101.3 | 98.7 | 101.4 | 89.7 | NM_130766.1 |
| 82.5 | 77 | 87.4 | 89.6 | NM_030623.1 |
| 976 | 1118.1 | 1151.5 | 652.8 | NM_006929.4 |
| 608.5 | 533.3 | 374.3 | 481.3 | NM_015360.2 |
| 1358 | 956.8 | 732.4 | 710.4 | NM_170679.1 |
| 98.4 | 79.9 | 79.8 | 89.7 | NM_006930.2 |
| 2169.7 | 1921.4 | 1561 | 1416.2 | NM_032637.2 |
| 512.6 | 339.8 | 286.1 | 265.3 | NM_032637.2 |
| 97.6 | 105.6 | 113.6 | 104.6 | NM_005983.2 |
| 121.8 | 118.9 | 109.8 | 104.8 | NM_001045556.1 |
| 153.8 | 122.4 | 113.6 | 97.9 | NM_001045557.1 |
| 177.8 | 142.3 | 142.1 | 127.7 | NM_153825.1 |
| 107.7 | 91.2 | 92 | 96.7 | NM_016955.1 |
| 88.6 | 81.3 | 79.7 | 95 | NM_032214.2 |
| 91 | 97.4 | 80 | 84.8 | NM_175077.1 |
| 97.9 | 85.3 | 86.4 | 87.8 | NM_003037.1 |
| 134.3 | 127.9 | 142.8 | 111.2 | NM_052931.3 |
| 89.5 | 78.6 | 83 | 83.4 | NM_021181.3 |
| 103.9 | 78.4 | 83.3 | 90.5 | NM_020125.1 |
| 99.9 | 106.9 | 86 | 84.4 | NM_033438.1 |
| 481.9 | 360.9 | 317.5 | 271.7 | NM_006527.2 |
| 87.9 | 79.7 | 82.9 | 93 | NM_003049.1 |
| 98.9 | 86 | 84.2 | 99.3 | NM_000452.1 |
| 430.8 | 361.4 | 353.7 | 288.1 | NM_019848.2 |
| 389.8 | 217.2 | 198.9 | 229.8 | NM_152679.2 |
| 88.5 | 82.5 | 80.7 | 87.6 | NM_001010893.1 |
| 73.6 | 80.3 | 73.6 | 83 | NM_197965.1 |
| 93 | 85.1 | 89.5 | 83.8 | NM_032128.2 |
| 205.6 | 174 | 160.7 | 136.6 | NM_001032220.1 |
| 89.7 | 90.7 | 83.9 | 92 | NM_000578.2 |
| 238.5 | 383.2 | 336.5 | 299.1 | NM_000617.1 |
| 94.7 | 97.5 | 88.4 | 94.2 | NM_000338.1 |
| 115.5 | 119.4 | 96.6 | 114.1 | NM_001046.2 |
| 85.3 | 84.1 | 79.2 | 82.7 | NM_000339.1 |
| 115.8 | 97.8 | 97.6 | 90 | NM_005072.3 |
| 86.2 | 92.5 | 83.3 | 94.8 | NM_020708.3 |
| 99.5 | 90.7 | 91.4 | 97.2 | NM_005135.1 |
| 69.2 | 81.2 | 75.2 | 80.8 | NM_005135.1 |
| 89.6 | 86.9 | 91.4 | 89.6 | NM_006598.1 |
| 103.9 | 109.3 | 100.3 | 103.9 | NM_024628.4 |
| 1518.7 | 1343.4 | 1318.1 | 592 | NM_020246.2 |
| 96.8 | 96.9 | 95.7 | 92.3 | NM_022444.3 |
| 92.5 | 93.9 | 88.7 | 88.1 | NM_003984.1 |
| 141.5 | 145.5 | 153.1 | 134.2 | NM_022829.4 |
| 84.1 | 83.6 | 82.8 | 76.9 | NM_001011554.1 |
| 94.5 | 92.5 | 90.1 | 96.5 | NM_022829.4 |
| 93.3 | 91 | 87.6 | 99.3 | NM_012450.2 |

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| 81.7 | 84.4 | 79.8 | 91.4 NM_177550.2 |
| 95.1 | 86.3 | 85.4 | 86.4 NM_015865.1 |
| 98.9 | 97.3 | 94.8 | 115.3 NM_007163.2 |
| 90.5 | 77.3 | 76.3 | 83.4 NM_005073.1 |
| 131 | 155.9 | 167.9 | 153.4 NM_021082.2 |
| 511.2 | 1130 | 888.4 | 424.5 NM_016582.1 |
| 404.2 | 463.8 | 455.6 | 385.3 NM_145648.1 |
| 91 | 85.8 | 78.3 | 83.8 NM_003051.2 |
| 294.8 | 171.3 | 175.9 | 143.3 NM_018593.3 |
| 99.7 | 86 | 86.7 | 95.8 NM_153357.1 |
| 3702.4 | 5704.5 | 7219.4 | 5006.2 NM_213606.1 |
| 100.9 | 78.9 | 90.8 | 92.3 NM_201566.1 |
| 77.6 | 83.7 | 87 | 90.8 NM_152527.3 |
| 126.2 | 120.3 | 112.5 | 120.7 NM_006517.2 |
| 2629.2 | 2671.2 | 2125.1 | 1627.9 NM_004207.2 |
| 87.5 | 75.7 | 71.5 | 74.4 NM_004696.1 |
| 301.2 | 310.9 | 347.4 | 225.5 NM_004695.2 |
| 105.4 | 96.2 | 94.5 | 100.1 NM_004694.2 |
| 91.9 | 89.7 | 95.2 | 98.7 NM_004731.3 |
| 89 | 81.6 | 88.5 | 90.7 NM_013356.1 |
| 224.2 | 147.6 | 135.4 | 126.1 NM_194298.1 |
| 84.1 | 72.8 | 81 | 85.6 NM_005074.1 |
| 93.4 | 91.3 | 79.5 | 90.9 NM_005835.1 |
| 107.5 | 109.7 | 109.3 | 95.6 NM_006632.1 |
| 84.1 | 77.4 | 81.2 | 78.7 NM_005495.1 |
| 96.1 | 98.2 | 84.4 | 92.7 NM_012434.3 |
| 88.3 | 80.5 | 82.3 | 92.7 NM_020346.1 |
| 98.1 | 91.4 | 93.6 | 92.3 NM_020309.2 |
| 81.1 | 90.3 | 76.8 | 80.9 NM_139319.1 |
| 98.9 | 97.9 | 98.8 | 102.8 NM_003053.1 |
| 95 | 83.9 | 82.1 | 87.2 NM_003054.2 |
| 92.4 | 85.5 | 80.4 | 81.8 NM_003055.2 |
| 210.1 | 223.7 | 201.9 | 183.8 NM_003056.2 |
| 119.3 | 105.5 | 101.4 | 108.1 NM_006996.1 |
| 95.1 | 96.2 | 82 | 89.7 NM_025243.2 |
| 111.8 | 115.1 | 101.5 | 111.8 NM_004170.4 |
| 83 | 89.9 | 75.6 | 89.7 NM_004171.2 |
| 168 | 252.3 | 216.1 | 195.5 NM_004172.3 |
| 260.8 | 187.8 | 168.7 | 158.9 NM_003038.2 |
| 566.1 | 435.5 | 332.3 | 280.4 NM_005628.1 |
| 85.2 | 84.1 | 78.5 | 82.6 NM_005071.1 |
| 97.2 | 94.3 | 98.1 | 89 NM_006671.3 |
| 2028.3 | 1587.7 | 1101.7 | 1094.8 NM_005415.3 |
| 468.2 | 268.8 | 283.9 | 143.6 NM_006749.3 |
| 104.2 | 92 | 84.1 | 89 NM_153187.1 |
| 97.7 | 89.6 | 81.1 | 86.1 NM_003057.2 |
| 80.9 | 86.7 | 93.6 | 88.1 NM_001039752.2 |
| 91.4 | 97.1 | 85.8 | 93 NM_018484.2 |
| 98.5 | 91.6 | 86.5 | 85.4 NM_153378.1 |
| 93.9 | 88.7 | 98.1 | 95.4 NM_144585.2 |

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| 97.8 | 91.7 | 73.6 | 89.9 NM_144585.2 |
| 98.2 | 92.9 | 96.6 | 102.4 NM_004256.1 |
| 98.1 | 92.2 | 95.7 | 98 NM_004803.2 |
| 1078.6 | 616.4 | 544.8 | 532.9 NM_018420.1 |
| 1368.6 | 1340.6 | 1431.3 | 810 NM_033125.2 |
| 87.6 | 90.8 | 83.3 | 88.1 NM_020372.2 |
| 143.6 | 122.8 | 111.3 | 123.8 NM_016609.3 |
| 122.2 | 116.9 | 108.4 | 107.9 NM_183233.1 |
| 417.8 | 443.6 | 387.1 | 361 NM_002555.3 |
| 155.4 | 170.7 | 144.3 | 134.9 NM_007105.1 |
| 91.1 | 89.1 | 86.8 | 88.9 NM_153191.1 |
| 84.7 | 70.4 | 79.5 | 81.7 NM_003058.2 |
| 97 | 90.8 | 83.7 | 89.3 NM_021977.2 |
| 188.5 | 275.5 | 232 | 202.4 NM_003059.2 |
| 231.5 | 318.1 | 247.8 | 238.5 NM_003060.2 |
| 97.8 | 91.9 | 98 | 94.8 NM_153276.1 |
| 91.5 | 90.1 | 81.5 | 88.1 NM_004790.3 |
| 85.5 | 86.7 | 86 | 90.4 NM_006672.2 |
| 109.4 | 93.5 | 91.8 | 111.8 NM_153320.2 |
| 90.6 | 85.9 | 80.8 | 83.6 NM_004254.2 |
| 88.5 | 84.9 | 81.5 | 88.7 NM_080866.2 |
| 99.1 | 94.3 | 103.3 | 86.7 NM_152685.2 |
| 97.1 | 93.2 | 97 | 91.7 NM_005847.3 |
| 82.6 | 89.6 | 83.1 | 90.4 NM_203327.1 |
| 162.1 | 289.1 | 266.8 | 205 NM_005116.5 |
| 86.5 | 88.1 | 100 | 93.1 NM_005116.5 |
| 91 | 94.3 | 98.2 | 98.1 NM_144712.2 |
| 105.1 | 122.8 | 101.5 | 114 NM_004727.1 |
| 98.1 | 82.4 | 88.2 | 92.7 NM_020344.1 |
| 81 | 86.9 | 72.3 | 71.5 NM_020689.3 |
| 108.1 | 104.2 | 90.2 | 102.3 NM_153648.2 |
| 106.3 | 106.2 | 114.2 | 97.6 NM_153646.2 |
| 106.5 | 116.1 | 105.9 | 93.3 NM_153647.2 |
| 90.2 | 85.4 | 82 | 85.3 NM_205850.1 |
| 335.6 | 344 | 432.3 | 237.1 NM_024959.2 |
| 1756.2 | 1130.5 | 1041.7 | 881.1 NM_005984.1 |
| 317.4 | 321.5 | 298.2 | 137.3 NM_012140.3 |
| 117.8 | 120.7 | 104.5 | 106.9 NM_003562.3 |
| 194.7 | 140.9 | 158 | 146.8 NM_003705.2 |
| 291.4 | 259.9 | 240.5 | 210.1 NM_014251.1 |
| 172 | 162.3 | 153.1 | 118.8 NM_022810.1 |
| 150.7 | 148.6 | 137.6 | 112.1 NM_022810.1 |
| 185.6 | 193.1 | 160.6 | 148.3 NM_014252.2 |
| 89.8 | 83.2 | 83.2 | 89.8 NM_152707.2 |
| 200.3 | 182.1 | 175.7 | 147.4 NM_006358.2 |
| 98.6 | 107.1 | 93.5 | 95.4 NM_031481.1 |
| 720.9 | 597.7 | 728.9 | 268.2 NM_021734.3 |
| 84.1 | 83.6 | 88.9 | 80.6 NM_031947.2 |
| 139.5 | 121.6 | 108.5 | 114.1 NM_000387.3 |
| 93.4 | 80.9 | 82.5 | 78.8 NM_030631.1 |

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| 373.5 | 266 | 244.8 | 131.9 NM_024698.4 |
| 1892.9 | 1230.3 | 1119.9 | 671.2 NM_024103.2 |
| 89.8 | 83.4 | 85.3 | 74.4 NM_213651.1 |
| 126.5 | 99.7 | 87.9 | 86.5 NM_013386.2 |
| 410 | 226.6 | 192.8 | 191.3 NM_013386.2 |
| 278.6 | 264.3 | 234.3 | 170.9 NM_052901.2 |
| 81.3 | 91.1 | 89.2 | 80.3 NM_001006641.1 |
| 90.8 | 89.2 | 74.4 | 88.9 NM_001006642.1 |
| 114.3 | 100.5 | 100.2 | 106.8 NM_052901.2 |
| 241.4 | 192.1 | 174.8 | 164.5 NM_001009937.1 |
| 123.8 | 121.3 | 117.4 | 101 NM_173471.1 |
| 205.7 | 151.5 | 133.2 | 125.6 NM_001009937.1 |
| 102.5 | 104.4 | 101.1 | 94.8 NM_004277.2 |
| 864.8 | 628.9 | 717.3 | 323.1 NM_031212.2 |
| 116.5 | 110.5 | 116.6 | 107.4 NM_001039355.1 |
| 121.9 | 140.4 | 143.4 | 136.9 NM_152333.1 |
| 6429.5 | 3768.9 | 3402 | 3498.8 NM_002635.2 |
| 105.2 | 102 | 100.2 | 94.6 NM_213611.1 |
| 104.5 | 95.7 | 102.6 | 97.2 NM_001010875.1 |
| 86.9 | 92.8 | 78.5 | 87.5 NM_031291.1 |
| 85.9 | 90.5 | 91.7 | 90.2 NM_030780.2 |
| 98.4 | 105.8 | 114 | 96.2 NM_207348.1 |
| 96.5 | 112.8 | 122.2 | 116.6 NM_201520.1 |
| 325.5 | 418 | 337.9 | 342.1 NM_018155.1 |
| 690.6 | 558.7 | 575 | 542 NM_016612.1 |
| 626.9 | 479 | 401.2 | 370.1 NM_001151.2 |
| 472.2 | 393.7 | 326.3 | 340.6 NM_018843.2 |
| 482.3 | 394.5 | 483.7 | 254.6 NM_178526.1 |
| 929.9 | 801.6 | 796.6 | 627.5 NM_145305.1 |
| 85.8 | 92.2 | 87.6 | 86.5 NM_001077241.1 |
| 15301 | 11067.9 | 9938.6 | 7992.2 NM_001152.1 |
| 86 | 96.1 | 95 | 85.6 NM_134425.1 |
| 92.7 | 93.9 | 80.2 | 87.2 NM_213613.2 |
| 82.7 | 94.8 | 88.2 | 91.6 NM_134425.1 |
| 87.4 | 80.6 | 77.3 | 87 NM_001018084.1 |
| 87.6 | 89.1 | 81.1 | 88.3 NM_173626.1 |
| 89.4 | 96 | 101.1 | 87.3 NM_173626.1 |
| 117.6 | 108.8 | 95.3 | 107.1 NM_000112.2 |
| 96.3 | 84.2 | 77.5 | 90.2 NM_000111.1 |
| 92.9 | 90.4 | 92.3 | 91.7 NM_000441.1 |
| 87.8 | 86.7 | 87.2 | 89.4 NM_206885.1 |
| 101 | 87 | 89.7 | 90 NM_206884.1 |
| 105.3 | 105.8 | 89.8 | 104.2 NM_198999.1 |
| 510.1 | 535.4 | 524.8 | 279.9 NM_134426.2 |
| 82 | 82.4 | 83 | 81.1 NM_001040454.1 |
| 107.7 | 98.9 | 94.5 | 105.9 NM_134426.2 |
| 85.9 | 83.4 | 84.1 | 93.6 NM_134266.1 |
| 86.2 | 93.5 | 96.3 | 90.2 NM_052832.2 |
| 93 | 89 | 85 | 91 NM_052961.2 |
| 81 | 80.1 | 79.6 | 89.4 NM_138718.1 |

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| 72.7 | 74.4 | 72.1 | 87.6 NM_052934.2 |
| 92.3 | 94.7 | 87.2 | 91.7 NM_134325.1 |
| 95.7 | 89.1 | 88.9 | 83.5 NM_134325.1 |
| 190 | 227.2 | 215.2 | 168.5 NM_198580.1 |
| 371.7 | 271.6 | 258.5 | 226.3 NM_003645.2 |
| 196.5 | 202 | 250.5 | 134.2 NM_024330.1 |
| 76.9 | 87.2 | 64.8 | 74.2 NM_005094.2 |
| 172.2 | 106.3 | 107.4 | 99.9 NM_012254.1 |
| 100.1 | 97.5 | 91.1 | 98.3 NM_014031.3 |
| 83 | 92.1 | 87.8 | 87.3 NM_001017372.1 |
| 83.6 | 72.9 | 74.1 | 85.4 NM_201651.1 |
| 82.7 | 84.7 | 74.3 | 81.5 NM_201651.1 |
| 96.3 | 93.7 | 95.6 | 99.7 NM_004213.3 |
| 101.7 | 90.6 | 85.7 | 93.8 NM_022127.1 |
| 98.5 | 92.1 | 98.4 | 90.6 NM_001078177.1 |
| 628.3 | 637.9 | 499 | 544.3 NM_004955.1 |
| 362.7 | 341.7 | 305.3 | 314.7 NM_001078174.1 |
| 116.2 | 99.2 | 118.8 | 108.8 NM_001532.2 |
| 164.4 | 128.3 | 127.4 | 125.5 NM_018344.3 |
| 99.8 | 108.5 | 101.1 | 102.2 NM_001040661.1 |
| 893.1 | 855.3 | 818.4 | 468.2 NM_006516.1 |
| 212.5 | 269.1 | 257.1 | 252.7 NM_030777.3 |
| 88.1 | 94.6 | 95.7 | 97.3 NM_030807.2 |
| 94.3 | 107.6 | 105.5 | 121.6 NM_001024938.1 |
| 122.8 | 119 | 119.1 | 117.3 NM_001024939.1 |
| 96.7 | 79.4 | 75.5 | 82.3 NM_145176.1 |
| 92.4 | 100.5 | 91.4 | 99.9 NM_052885.1 |
| 99.8 | 93.3 | 95.2 | 98.9 NM_153449.2 |
| 96.2 | 85.3 | 78.7 | 97.2 NM_000340.1 |
| 399.6 | 435.4 | 375.4 | 256.5 NM_006931.1 |
| 84.8 | 89 | 92.5 | 84.8 NM_001042.1 |
| 437.1 | 329.3 | 414.1 | 212.2 NM_020062.3 |
| 1642.6 | 1561.7 | 1634.7 | 1197 NM_003039.1 |
| 513 | 585.5 | 612.8 | 489.8 NM_017585.2 |
| 94.2 | 90.4 | 87.6 | 94.6 NM_207420.1 |
| 463.8 | 486.5 | 522.7 | 246.6 NM_014580.3 |
| 112.7 | 82.1 | 78.4 | 85 NM_001001290.1 |
| 101.5 | 104.9 | 98.2 | 97.3 NM_020041.2 |
| 507.5 | 552.4 | 508 | 402.2 NM_001001290.1 |
| 159.9 | 134.9 | 110.3 | 117.2 NM_021194.2 |
| 86.1 | 98.6 | 89.6 | 86.6 NM_018713.2 |
| 88.7 | 84.8 | 81.2 | 79.1 NM_001004434.1 |
| 97 | 89.3 | 93.6 | 95.6 NM_032513.3 |
| 309.7 | 119.4 | 126 | 106.6 NM_003459.4 |
| 94.6 | 91.1 | 91.1 | 101.9 NM_013309.4 |
| 955 | 621.1 | 639.2 | 433.1 NM_024055.2 |
| 118.9 | 123.6 | 84.4 | 114.9 NM_022902.2 |
| 105.4 | 77 | 96.9 | 95.5 NM_024055.2 |
| 101.1 | 88.4 | 84.4 | 86.4 NM_017964.2 |
| 861.6 | 624.7 | 646.2 | 591.3 NM_133496.3 |

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| 101 | 90.6 | 89.2 | 91.8 | NM_173851.2 |
| 846.6 | 610.4 | 510.1 | 575.9 | NM_006345.3 |
| 274.4 | 403.7 | 364.5 | 265.8 | NM_001860.1 |
| 83.6 | 79.4 | 80.8 | 82.1 | NM_080552.2 |
| 139.2 | 160 | 135.9 | 149.4 | NM_004733.2 |
| 92 | 83.9 | 83.7 | 82.5 | NM_003052.2 |
| 88.8 | 98.9 | 94.1 | 92.7 | NM_006424.2 |
| 92.3 | 93.2 | 90.9 | 85.2 | NM_080877.1 |
| 1732.9 | 1836 | 1665.6 | 1600.4 | NM_006416.2 |
| 753.2 | 577.3 | 489.1 | 343.7 | NM_001032289.1 |
| 121.3 | 112.1 | 113.7 | 99.8 | NM_001032289.1 |
| 170.8 | 162 | 132.7 | 147.4 | NM_005660.1 |
| 157.9 | 132.9 | 133.4 | 140.7 | NM_005660.1 |
| 692.3 | 415.1 | 419.8 | 337.4 | NM_012243.1 |
| 475 | 478.5 | 326.8 | 294.3 | NM_080670.2 |
| 523 | 529.8 | 479 | 412.6 | NM_017945.2 |
| 3080.7 | 2438.9 | 2076 | 1615.5 | NM_005827.1 |
| 753.2 | 783.1 | 679 | 645.6 | NM_178148.1 |
| 508.3 | 503.6 | 394.2 | 438.2 | NM_015948.2 |
| 175.6 | 162.6 | 135.2 | 176.2 | NM_032826.3 |
| 162.3 | 119.9 | 104.5 | 118.8 | NM_018389.3 |
| 153.8 | 152.9 | 131.7 | 139.7 | NM_173073.2 |
| 213.1 | 221.1 | 221.2 | 168.1 | NM_173073.2 |
| 91.1 | 77.2 | 83.9 | 92.8 | NM_173179.2 |
| 115 | 100.9 | 89.2 | 100.6 | NM_015139.1 |
| 154.2 | 195 | 162.2 | 158.4 | NM_007001.1 |
| 88.3 | 82.4 | 79.9 | 87.5 | NM_001008783.1 |
| 569 | 654.3 | 1025.5 | 674.2 | NM_024881.3 |
| 102 | 99.2 | 103.8 | 109.6 | NM_182838.1 |
| 318 | 343.4 | 335.6 | 292.4 | NM_018656.2 |
| 100.5 | 92.8 | 85.5 | 96.3 | NM_001001479.1 |
| 95.8 | 112.4 | 101 | 88.3 | NM_001029858.1 |
| 960.6 | 429.3 | 465.3 | 325.4 | NM_017515.3 |
| 94 | 92.2 | 78.3 | 85.3 | NM_173508.1 |
| 84.3 | 93.1 | 74.2 | 81.8 | XM_939358.1 |
| 91.9 | 95.2 | 91.4 | 95 | XM_936857.1 |
| 162.6 | 147.9 | 131.3 | 139.5 | NM_025181.2 |
| 222.6 | 210.7 | 171.3 | 184 | NM_078483.2 |
| 79.7 | 76.8 | 83.9 | 79.9 | NM_181776.1 |
| 88.2 | 76.3 | 92.6 | 77.7 | NM_181774.2 |
| 601.7 | 335.9 | 317.8 | 433.6 | NM_152313.2 |
| 139.3 | 126.7 | 112.5 | 111.8 | NM_018964.3 |
| 83.7 | 79.1 | 75.4 | 88.1 | NM_198277.1 |
| 143.8 | 134.4 | 108 | 105.5 | NM_032295.2 |
| 97.1 | 88.5 | 98.4 | 89.8 | NM_207113.1 |
| 544.6 | 363 | 372.5 | 204 | NM_001467.3 |
| 142 | 107.6 | 95.3 | 101.1 | NM_030674.2 |
| 992.4 | 707.6 | 598 | 626.4 | NM_030674.2 |
| 461 | 413.4 | 397.2 | 444.4 | NM_018976.3 |
| 93.4 | 91.4 | 91.3 | 97.6 | NM_006841.3 |

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| 118.2 | 112.1 | 109.5 | 107.3 | NM_033518.1 |
| 187.4 | 196.5 | 176.1 | 171.6 | NM_153811.1 |
| 1392.1 | 1309.9 | 1063.3 | 769.8 | NM_014437.3 |
| 187.9 | 211.2 | 167.6 | 178.2 | NM_020342.1 |
| 442.5 | 511.8 | 453.1 | 442.5 | NM_139177.2 |
| 89.2 | 94.9 | 90.4 | 100 | NM_152725.1 |
| 111.7 | 101.5 | 103.5 | 96.1 | NM_152264.2 |
| 478.9 | 228.1 | 166.5 | 185.3 | NM_015359.1 |
| 90.4 | 88.2 | 91.2 | 87 | NM_014579.1 |
| 352.1 | 239.2 | 229.8 | 197.1 | NM_144564.4 |
| 2449.3 | 1915.2 | 1649.3 | 1006.2 | NM_144564.4 |
| 206.6 | 158.5 | 135.5 | 142.4 | NM_213568.1 |
| 82.7 | 85.5 | 82 | 93 | NM_130849.1 |
| 95 | 95.1 | 84 | 84.5 | NM_017767.1 |
| 85.4 | 87.3 | 82.7 | 89.8 | NM_173596.1 |
| 163.8 | 162.8 | 149.5 | 178 | NM_012319.2 |
| 109.1 | 115.1 | 95.7 | 99.9 | NM_001077516.1 |
| 125.6 | 130.8 | 111.7 | 115.9 | NM_006979.1 |
| 470.1 | 273.5 | 203 | 221.6 | NM_022154.5 |
| 183.2 | 115.7 | 96.4 | 115 | NM_018375.2 |
| 88 | 80.8 | 78.3 | 85.4 | NM_000341.2 |
| 634.3 | 409 | 381.5 | 278.8 | NM_001013251.1 |
| 128.7 | 111.7 | 113.6 | 108.3 | NM_001012661.1 |
| 936 | 622.5 | 517.6 | 420 | NM_001012661.1 |
| 153.2 | 261.5 | 214.7 | 244.2 | NM_014585.3 |
| 155 | 123.4 | 129.2 | 135 | NM_173854.4 |
| 92.3 | 88.3 | 85.1 | 83.5 | NM_032148.2 |
| 696.9 | 462.3 | 492.2 | 302.9 | NM_001008485.1 |
| 76.8 | 82.7 | 77 | 79.7 | NM_001008487.1 |
| 383.6 | 273.9 | 287.5 | 185.9 | NM_017836.3 |
| 100.6 | 100.2 | 94.6 | 91.8 | NM_003627.4 |
| 170.8 | 278.7 | 265.2 | 138.6 | NM_152346.1 |
| 685.5 | 781.2 | 573 | 544.6 | NM_017611.2 |
| 76.4 | 83.8 | 78 | 79.8 | NM_014096.2 |
| 179.5 | 273.4 | 172.4 | 192.9 | NM_199329.1 |
| 131.4 | 124.7 | 120.3 | 112.3 | NM_199329.1 |
| 2989.1 | 3224.5 | 3221.1 | 1839.6 | NM_080546.2 |
| 948.7 | 1579.3 | 1148.3 | 1196.5 | NM_022109.2 |
| 85.8 | 104.4 | 111.2 | 95.9 | NM_020428.2 |
| 106.5 | 112.7 | 113.1 | 101.1 | NM_152369.2 |
| 96.6 | 91.7 | 94.5 | 96.2 | NM_025257.1 |
| 2902.9 | 4210.1 | 6000.7 | 3972.5 | NM_032794.1 |
| 92 | 91.4 | 87.8 | 92.2 | NM_032794.1 |
| 99.6 | 84.1 | 71.8 | 83.1 | NM_152697.2 |
| 96.9 | 102.3 | 90.8 | 86.1 | NM_001080397.1 |
| 79.8 | 91.6 | 80.8 | 73.1 | NM_016180.3 |
| 89.9 | 91.5 | 90 | 94 | NM_016180.3 |
| 101.2 | 90.4 | 93 | 83.3 | NM_001012509.1 |
| 224.4 | 201.3 | 170 | 182.5 | NM_033102.1 |
| 211.3 | 212.8 | 215.1 | 178.6 | NM_001080431.1 |

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| 78.2 | 88 | 76.6 | 83.4 NM_000342.1 |
| 87.8 | 76.7 | 81.7 | 96.6 NM_022058.2 |
| 218.1 | 163.3 | 173.3 | 148.4 NM_032034.1 |
| 129.7 | 159.6 | 111 | 127.6 NM_018158.1 |
| 202.1 | 250.6 | 209.2 | 209.8 NM_003040.2 |
| 86.9 | 105.2 | 107.4 | 116.2 NM_005070.1 |
| 86.2 | 81.7 | 82.5 | 89.1 NM_201574.1 |
| 96.3 | 94.3 | 92.4 | 90 NM_003759.1 |
| 241.3 | 473.8 | 770.7 | 439.1 NM_133478.2 |
| 84.6 | 81 | 88.8 | 80.9 NM_133478.2 |
| 92.8 | 89.5 | 92.5 | 99 NM_133479.1 |
| 357.4 | 343.7 | 337.2 | 313.7 NM_003615.2 |
| 97.7 | 113 | 122.7 | 110.6 NM_004858.1 |
| 89.7 | 95.5 | 92.3 | 99.4 NM_001039960.1 |
| 86.5 | 100.5 | 81.9 | 83.2 NM_031467.1 |
| 102.9 | 94.9 | 91.6 | 102.8 NM_000343.1 |
| 94.6 | 89.7 | 91.3 | 95 NM_152351.2 |
| 99.6 | 89 | 89 | 92.5 XM_941678.1 |
| 83.3 | 84.5 | 85.5 | 76 NM_152351.2 |
| 92.1 | 81.7 | 96.6 | 86.4 NM_001042450.1 |
| 96.7 | 84.8 | 88.6 | 95 NM_052944.2 |
| 88 | 78.9 | 84 | 90.1 NM_001042366.1 |
| 87.4 | 78.7 | 76.9 | 80.9 NM_178498.2 |
| 76.5 | 80.7 | 75.3 | 77.9 NM_001042366.1 |
| 92.4 | 94.2 | 86.8 | 85 NM_003041.1 |
| 93.8 | 92.6 | 95.3 | 95.5 NM_006933.2 |
| 84.7 | 83.6 | 85 | 87.7 NM_014227.1 |
| 96.4 | 85.3 | 88.4 | 85.4 NM_000453.1 |
| 683.6 | 463.7 | 359.1 | 326.5 NM_021095.1 |
| 87.9 | 83.8 | 83.1 | 86 NM_021815.2 |
| 119.1 | 132.3 | 173.3 | 137.7 NM_145913.2 |
| 90 | 94.2 | 83.1 | 94.9 NM_001011547.1 |
| 79.4 | 84 | 77 | 85.9 NM_003042.2 |
| 89.9 | 90.1 | 87.2 | 92.4 NM_014229.1 |
| 109 | 104.8 | 101.9 | 92 NM_003044.2 |
| 127.8 | 107.2 | 107.3 | 104.3 NM_016615.2 |
| 96.8 | 96.3 | 92.3 | 89 NM_007231.1 |
| 100.5 | 95.6 | 94.3 | 90 NM_182767.3 |
| 92 | 94.8 | 97 | 96.1 NM_182767.3 |
| 90.3 | 97.4 | 89.2 | 99.3 NM_018057.4 |
| 87.1 | 92.7 | 89.4 | 89.3 NM_014037.2 |
| 86.5 | 87.2 | 85.5 | 88.3 NM_001010898.1 |
| 112.5 | 95.5 | 91.6 | 99.9 NM_182632.1 |
| 87.7 | 72.2 | 73.5 | 81.5 NM_001003841.1 |
| 100 | 97.6 | 89.8 | 98.1 NM_001043.2 |
| 97.8 | 87 | 91.5 | 94.6 NM_020208.2 |
| 82.7 | 85.9 | 79.2 | 82 NM_022405.2 |
| 96.9 | 93.5 | 88.1 | 96.8 NM_020208.2 |
| 91.6 | 87.5 | 81.4 | 91.8 NM_001044.2 |
| 92.4 | 84.4 | 82.6 | 83.3 NM_001045.2 |

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| 86.3 | 79.5 | 79.8 | 85.4 NM_004211.1 |
| 106.3 | 102 | 99.6 | 101.3 NM_003043.2 |
| 96.5 | 90.7 | 84 | 95.9 NM_014228.2 |
| 107.2 | 138.1 | 123.4 | 122.7 NM_005629.1 |
| 101.8 | 94.3 | 103.1 | 83 NM_201649.2 |
| 97.8 | 98.9 | 95.1 | 94 NM_006934.2 |
| 89.8 | 86.3 | 84.1 | 93 NM_001024845.1 |
| 1185.5 | 1034.3 | 876.6 | 639.3 NM_003045.3 |
| 113.2 | 131.3 | 128.1 | 106.4 NM_019849.1 |
| 222.5 | 182.6 | 156.1 | 151.6 NM_014331.2 |
| 80.6 | 71.8 | 85.8 | 76.9 NM_138817.2 |
| 89.7 | 87.4 | 89 | 93.5 NM_020949.1 |
| 93.3 | 88.8 | 81.7 | 86.3 NM_001008539.1 |
| 79.1 | 82 | 76.9 | 78.5 NM_003046.2 |
| 226.4 | 118.2 | 110.8 | 116.7 NM_003046.2 |
| 95.7 | 91.9 | 90.9 | 85.3 NM_001048164.1 |
| 93.7 | 85.5 | 78 | 93.6 NM_032803.3 |
| 81.8 | 87.1 | 89.7 | 89.4 NM_004173.1 |
| 3581.7 | 1226.7 | 1015.9 | 450.2 NM_003486.5 |
| 221 | 158 | 153.9 | 154.9 NM_003983.3 |
| 193.5 | 146.5 | 127.3 | 119 NM_001076785.1 |
| 154.4 | 142.7 | 137.3 | 119.8 NM_032178.1 |
| 638.3 | 581.4 | 494.8 | 459.2 NM_003982.2 |
| 87.3 | 87.6 | 74.1 | 89.3 NM_012244.2 |
| 103 | 95.3 | 95.9 | 88.6 NM_182728.1 |
| 102.9 | 104.5 | 95.9 | 88.1 NM_012244.2 |
| 118.7 | 113 | 101.2 | 107.9 NM_014270.3 |
| 85 | 91.8 | 84.1 | 90.7 NM_021097.1 |
| 100.8 | 92.2 | 89.6 | 83.9 NM_015063.1 |
| 83.4 | 81.7 | 75.9 | 89.9 NM_182936.1 |
| 101.1 | 81.9 | 95.4 | 98.5 NM_033262.3 |
| 81.6 | 81.2 | 72.4 | 86.3 NM_183002.1 |
| 530.2 | 462.7 | 458.9 | 241.2 NM_003047.2 |
| 101.6 | 91.8 | 90.6 | 95.3 NM_183061.1 |
| 90.3 | 86.1 | 78.9 | 85.6 NM_178527.2 |
| 83.3 | 82 | 68.2 | 87.1 NM_003048.3 |
| 97.4 | 92.4 | 88.4 | 85 NM_004174.1 |
| 478.3 | 415.9 | 398.5 | 235.1 NM_004252.1 |
| 88.2 | 79 | 80.4 | 84.7 NM_004785.3 |
| 623.6 | 184.1 | 123.7 | 144.2 NM_001011552.1 |
| 101.1 | 88.1 | 90.8 | 93.4 NM_004594.1 |
| 89.2 | 88.6 | 75 | 81.4 NM_001042537.1 |
| 90.5 | 88.5 | 84.3 | 92.5 NM_001042537.1 |
| 460 | 369.6 | 314.3 | 348.5 NM_006359.1 |
| 100.7 | 89.5 | 88.1 | 91.1 NM_032591.1 |
| 146 | 143 | 115.5 | 132.4 NM_015266.1 |
| 105.1 | 92 | 87.6 | 96.3 NM_173653.1 |
| 83.1 | 68.5 | 69.7 | 85.9 NM_005075.2 |
| 87.9 | 84.1 | 86.4 | 80.9 NM_005075.2 |
| 81.1 | 77.8 | 78.3 | 85.6 NM_021094.2 |

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| 93 | 90 | 86.6 | 91.1 NM_021094.2 |
| 86.8 | 77.9 | 80.2 | 88.4 NM_134431.1 |
| 83.8 | 78.1 | 85.8 | 79.8 NM_006446.2 |
| 90.3 | 80.4 | 71.2 | 78.8 NM_019844.1 |
| 81.6 | 79 | 76 | 81.9 NM_017435.2 |
| 93.7 | 83.3 | 87.2 | 92.6 NM_005630.1 |
| 104.9 | 105.8 | 95.1 | 94.3 NM_007256.2 |
| 92.9 | 96 | 88.9 | 89 NM_013272.2 |
| 129 | 140.9 | 141.2 | 134.5 NM_013272.2 |
| 243.4 | 169.6 | 146.9 | 143 NM_016354.3 |
| 94.9 | 102.6 | 104.7 | 93.6 NM_180991.4 |
| 88.7 | 86.4 | 84.1 | 89.9 NM_030958.1 |
| 86.8 | 90.6 | 71.5 | 83.9 NM_173488.2 |
| 397 | 267.4 | 251.1 | 244.4 NM_032336.1 |
| 364.8 | 257.7 | 231.4 | 228.7 NM_152270.2 |
| 101.6 | 97.3 | 107.8 | 91.7 NM_144682.3 |
| 107.8 | 86.1 | 89.9 | 84.4 NM_182854.1 |
| 114.5 | 108.7 | 103.6 | 105.3 NM_182854.1 |
| 112.2 | 102.7 | 92.7 | 87.7 NM_003061.1 |
| 94.8 | 94.3 | 80.8 | 94.6 NM_004787.1 |
| 89.6 | 87.7 | 89.9 | 80.3 NM_003062.1 |
| 114 | 98.9 | 105.2 | 89.5 NM_138440.1 |
| 85.9 | 78.4 | 82.7 | 89.9 NM_052910.1 |
| 86.7 | 78 | 85.9 | 85.9 NM_032539.2 |
| 100.2 | 94.6 | 84.8 | 97.4 NM_014926.2 |
| 357.1 | 319 | 294.6 | 264.6 NM_173078.2 |
| 100.7 | 101.2 | 96.3 | 100.9 NM_015567.1 |
| 92.8 | 93.9 | 88.2 | 96.6 NM_032229.2 |
| 191.7 | 183.2 | 180.6 | 183.6 NM_014720.2 |
| 779.2 | 735.5 | 668.6 | 622.3 NM_007159.2 |
| 301.5 | 170.6 | 190 | 153.2 NM_006553.2 |
| 93.7 | 78.2 | 81.8 | 84.8 NM_003063.1 |
| 370.3 | 416.8 | 298.4 | 313.7 NM_003064.2 |
| 965.1 | 1055.4 | 1070.9 | 803.2 NM_017968.2 |
| 441.5 | 574.9 | 511.3 | 372 NM_001013843.1 |
| 170.6 | 166.8 | 154.9 | 176.6 NM_024755.2 |
| 643.7 | 600.4 | 470.2 | 553 NM_006425.3 |
| 91 | 87.5 | 87.9 | 83.6 NM_020427.2 |
| 153.3 | 200.4 | 240.6 | 220.6 NM_021652.2 |
| 86.6 | 89.9 | 86 | 88.2 NM_021036.1 |
| 92.9 | 95.8 | 91.7 | 93.5 NM_005900.2 |
| 97 | 85.4 | 88 | 82.4 NM_001003688.1 |
| 162.6 | 183.8 | 149.5 | 150.5 NM_001003652.1 |
| 80.5 | 80.8 | 81 | 90.2 NM_005901.3 |
| 231.4 | 253.9 | 255.6 | 225.4 NM_005902.3 |
| 1001.1 | 824 | 855.6 | 657.5 NM_005359.3 |
| 90.5 | 90 | 92.6 | 99.9 NM_001001419.1 |
| 88.1 | 85.9 | 88.3 | 92.4 NM_005903.5 |
| 646.9 | 723.4 | 717.2 | 418.8 NM_005903.5 |
| 336.4 | 294.4 | 304 | 158.6 NM_005585.2 |

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| 112 | 99.9 | 89.8 | 100.4 NM_005904.2 |
| 91.3 | 83.9 | 88.4 | 93.7 NM_005905.2 |
| 95.8 | 87.1 | 85.3 | 89.3 NM_001018082.1 |
| 127.1 | 107.9 | 110.2 | 129.5 NM_014267.3 |
| 552.1 | 671 | 501 | 494.6 NM_021940.2 |
| 126.3 | 131.6 | 118 | 119.2 NM_021940.2 |
| 10868.2 | 11249.3 | 11513.5 | 5966.6 NM_022733.1 |
| 81.1 | 90.3 | 81.2 | 87.8 NM_003069.2 |
| 88 | 94 | 92.7 | 95.9 NM_003070.3 |
| 1125.5 | 1270.7 | 1184.1 | 1279.6 NM_139045.2 |
| 130 | 117.9 | 118.8 | 121 NM_003071.2 |
| 466.5 | 563.9 | 472 | 550.2 NM_003071.2 |
| 1406.1 | 957.5 | 960.8 | 534.5 NM_003072.2 |
| 205.9 | 230.6 | 166.9 | 190.4 NM_003601.2 |
| 220.8 | 185.6 | 170.8 | 158.8 NM_020159.1 |
| 380.9 | 390.2 | 363.2 | 287.8 NM_014140.2 |
| 352.4 | 259 | 241.2 | 234.8 NM_001007468.1 |
| 438.1 | 403.4 | 301.8 | 299.9 NM_001007468.1 |
| 1053.4 | 1484.6 | 927 | 1279 NM_003074.2 |
| 99.3 | 88.9 | 81.2 | 87.4 NM_139067.1 |
| 495.9 | 646.8 | 601.7 | 487.9 NM_003075.2 |
| 147.1 | 194.5 | 205.1 | 219.5 NM_003075.2 |
| 90.8 | 103.1 | 90.3 | 82 NM_003076.3 |
| 625.3 | 531.7 | 526.3 | 349.7 NM_003076.3 |
| 459.1 | 280.1 | 253.4 | 272 NM_003077.2 |
| 95.2 | 115.2 | 120.3 | 106.5 NM_001003802.1 |
| 83 | 84.1 | 82.4 | 77.3 NM_001003801.1 |
| 192 | 253.6 | 270.1 | 214.6 NM_003078.3 |
| 417.6 | 371.8 | 278.3 | 337.7 NM_003079.4 |
| 249.3 | 192.3 | 163.2 | 180.7 NM_020123.2 |
| 105.4 | 114.4 | 116.4 | 125.1 NM_006306.2 |
| 103.1 | 102 | 105.4 | 103.9 NM_148674.3 |
| 123.2 | 141 | 123.7 | 128.5 NM_001042550.1 |
| 457 | 408.8 | 373.8 | 337.6 NM_001042550.1 |
| 420.8 | 338.7 | 226 | 287.1 NM_006444.1 |
| 110.5 | 98.9 | 101.5 | 111.3 NM_005445.3 |
| 2778.7 | 2026.9 | 1371.4 | 1815.3 NM_001002800.1 |
| 157 | 121 | 138.8 | 130.7 NM_001002800.1 |
| 134.6 | 111.4 | 108.5 | 116.4 NM_005496.3 |
| 87.4 | 74.5 | 75 | 84.9 NM_015110.1 |
| 94.3 | 89.4 | 82.5 | 91.4 NM_024624.3 |
| 79.2 | 95 | 81.4 | 76.6 NM_030663.2 |
| 88.2 | 77.7 | 85.4 | 85.7 NM_139162.2 |
| 92.5 | 85.9 | 88.9 | 84.1 NM_139162.2 |
| 81.5 | 79.5 | 81.5 | 83.4 NM_144775.1 |
| 111 | 115.2 | 115.6 | 114.2 NM_004187.1 |
| 256.8 | 336.8 | 324.4 | 236.5 NM_004653.3 |
| 730.5 | 756.1 | 637 | 619.9 NM_020463.1 |
| 86.2 | 91.5 | 80.1 | 91.4 NR_002784.1 |
| 470.7 | 761.9 | 565.4 | 672.1 NM_015092.3 |

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| 543.8 | 542.5 | 511.6 | 269.8 NM_015327.1 |
| 88.6 | 90.8 | 95.4 | 96.6 NM_017575.3 |
| 174 | 191.5 | 178.9 | 182.2 NM_201569.1 |
| 93.1 | 103.8 | 96 | 94.7 NM_173156.1 |
| 488.7 | 751.7 | 562.7 | 684.1 NM_014837.3 |
| 81.1 | 84.7 | 95.9 | 82.2 NM_022874.1 |
| 124.2 | 123.7 | 118.6 | 115.1 NM_022875.1 |
| 718.2 | 349.6 | 315 | 355.3 NM_005871.2 |
| 113.5 | 125.8 | 101.2 | 119.8 NM_005631.3 |
| 79.5 | 78.4 | 70.9 | 76.7 NM_001034852.1 |
| 90.5 | 76.8 | 78.1 | 91.4 NM_022137.3 |
| 93.3 | 98.2 | 85.1 | 93.2 NM_022138.1 |
| 155.9 | 130 | 119.6 | 101.1 NM_019025.2 |
| 114.9 | 106.9 | 93.3 | 111.3 NM_175840.1 |
| 92.1 | 88 | 85.9 | 91 NM_175842.1 |
| 131.4 | 143.5 | 121 | 113.3 NM_000543.3 |
| 122 | 85.2 | 75.2 | 89.2 NM_001007593.1 |
| 175.1 | 162.5 | 145.1 | 149.3 NM_003080.1 |
| 96.6 | 101.6 | 103.6 | 94.4 NM_018667.2 |
| 108.5 | 102.1 | 87.3 | 103.2 NM_006714.2 |
| 96.3 | 101.6 | 93.4 | 96.9 NM_001009568.1 |
| 89.1 | 98.8 | 95.2 | 98.1 NM_014474.2 |
| 89.4 | 86.6 | 91.4 | 92.6 NM_014474.2 |
| 99.6 | 91.3 | 79.7 | 89.9 NM_014332.1 |
| 87 | 84 | 87.1 | 85.9 NM_012390.3 |
| 97.3 | 88.8 | 97.2 | 85.6 NM_006685.2 |
| 952.8 | 908.4 | 697.6 | 719.1 NM_004595.2 |
| 102 | 95.7 | 92.3 | 82.8 NM_134269.1 |
| 89.9 | 91.7 | 92.3 | 98.8 NM_134269.1 |
| 261.4 | 215.8 | 178.4 | 188.1 NM_006932.3 |
| 192.8 | 140.3 | 127 | 134.3 NM_018225.1 |
| 406.4 | 404 | 373.3 | 309 NM_014311.1 |
| 98.7 | 103.9 | 113.7 | 98.4 NM_181349.1 |
| 94 | 89.3 | 88.5 | 83 NM_020429.1 |
| 107.8 | 102.6 | 101 | 82.4 NM_022739.3 |
| 77.9 | 71.5 | 70.6 | 75.9 NM_198274.2 |
| 219.4 | 252 | 221.1 | 223.4 NM_020197.1 |
| 2971.6 | 2058.4 | 1384.6 | 1496 NM_022743.1 |
| 216.4 | 187.1 | 188.2 | 189.1 NM_052928.1 |
| 106.2 | 95.6 | 98.4 | 102.4 NM_006062.1 |
| 89.2 | 82.7 | 83.8 | 94.8 NM_023068.2 |
| 92.8 | 98 | 81.9 | 84 NM_052870.1 |
| 86 | 77.5 | 85.5 | 91.3 NM_005985.2 |
| 128 | 96.2 | 91.8 | 93.4 NM_003068.3 |
| 112.1 | 100.2 | 95.6 | 109.9 NM_178310.1 |
| 335.7 | 225.5 | 211.1 | 212.3 NM_003825.2 |
| 183.5 | 171.9 | 165.1 | 173.6 NM_130798.1 |
| 105.6 | 99.2 | 110.7 | 98.2 NM_130811.1 |
| 143.3 | 111.4 | 111.1 | 111.5 NM_003081.2 |
| 302.9 | 362.5 | 262.9 | 254.1 NM_004782.2 |

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| 100 | 143.3 | 158.3 | 159.2 NM_014841.1 |
| 121.3 | 123.7 | 106.2 | 95.4 NM_012437.3 |
| 148.1 | 190 | 249.7 | 167.5 NM_003082.2 |
| 345.2 | 309.4 | 243.7 | 188.3 NM_003083.1 |
| 75.4 | 80.4 | 77.7 | 77.8 NM_001039697.1 |
| 1173.6 | 863 | 964 | 551.9 NM_003086.1 |
| 150.9 | 156.7 | 134.3 | 141.3 NM_006049.1 |
| 110.2 | 96.5 | 83.8 | 86.2 NM_007308.1 |
| 78.3 | 85.4 | 77.5 | 95.7 NM_000345.2 |
| 83.9 | 74.2 | 79.6 | 89.2 NM_005460.2 |
| 84.2 | 91.3 | 82.5 | 81.5 XM_936492.1 |
| 93.3 | 91.6 | 90.3 | 84.5 NM_003085.3 |
| 82.1 | 91.5 | 85.4 | 87.4 NM_003087.1 |
| 1084.4 | 1158.1 | 1113.1 | 807.7 NM_014390.2 |
| 105.9 | 116 | 109.7 | 96.7 NM_173354.2 |
| 105.2 | 105 | 99.1 | 89.6 NM_015191.1 |
| 248.7 | 315.9 | 332.2 | 199.8 NM_007241.2 |
| 265.8 | 174.4 | 176.2 | 146.2 NM_018664.1 |
| 88.4 | 80.2 | 91.5 | 80.1 NR_001459.2 |
| 92.7 | 90.8 | 84.3 | 89 NR_002909.1 |
| 83.3 | 89.3 | 90.1 | 84.4 NM_001048198.1 |
| 6284.2 | 5951.7 | 4797.9 | 5266.5 NR_003038.1 |
| 103.2 | 85.4 | 82.2 | 84 NR_003192.1 |
| 85.7 | 76.4 | 82 | 87.2 NM_025248.1 |
| 221.6 | 220.2 | 189.5 | 160.6 NM_024700.2 |
| 111.7 | 116.3 | 103.8 | 103.9 NM_003498.3 |
| 133.1 | 128.2 | 105.5 | 121.3 NR_003032.1 |
| 94.3 | 84.8 | 90.5 | 89 NR_001293.1 |
| 98.8 | 91.6 | 89.2 | 89.1 NR_003317.1 |
| 88.7 | 87.4 | 78.5 | 95.2 NR_003319.1 |
| 144.2 | 101.3 | 101.4 | 117.6 NR_002448.1 |
| 155.5 | 115.4 | 101.9 | 111.7 NR_000016.1 |
| 254 | 220.7 | 238.3 | 175 NR_002745.1 |
| 209.8 | 180.4 | 168.4 | 180.3 NR_002739.1 |
| 85.4 | 95 | 88.7 | 90.2 NM_014723.2 |
| 837 | 937.4 | 954.5 | 688.5 NM_017719.3 |
| 315.8 | 296 | 244.7 | 250.7 NM_003089.4 |
| 3421.5 | 2488 | 2315.9 | 1702.7 NM_003089.4 |
| 101.3 | 101.1 | 93.2 | 95.6 NM_001009820.1 |
| 664.4 | 529.9 | 480.3 | 414.8 NM_004596.3 |
| 4538.5 | 2716.6 | 2416.3 | 1993.1 NM_003090.2 |
| 3365.7 | 1252.8 | 1251.4 | 654.6 NM_003091.3 |
| 3990.6 | 2090.3 | 2029.1 | 1421.7 NM_003091.3 |
| 2870.8 | 2330.1 | 1978 | 1476.8 NM_003092.3 |
| 824.8 | 811.7 | 679.2 | 573.8 NM_003092.3 |
| 1732.4 | 1623.3 | 1154.5 | 1175.4 NM_003093.1 |
| 257.5 | 168 | 144.6 | 149.6 NM_006938.2 |
| 99 | 96.4 | 87.6 | 92 NM_177542.1 |
| 22265.9 | 16546 | 16523.9 | 11091.8 NM_004597.4 |
| 366 | 247.2 | 249.1 | 178.8 NM_004175.3 |

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| 98 | 94.8 | 85.4 | 86.4 NM_003094.2 |
| 8342.3 | 7294.3 | 6431.7 | 4633.8 NM_003095.2 |
| 19486.5 | 12376.1 | 9526.3 | 9877.1 NM_003096.2 |
| 2007.5 | 1362.8 | 1409.4 | 681.9 NM_022805.2 |
| 81.2 | 85.6 | 83.8 | 88.9 NM_022807.2 |
| 168.6 | 165.5 | 141.2 | 135.8 NM_003098.2 |
| 650.7 | 376.3 | 392.1 | 318.3 NM_021021.2 |
| 90.5 | 90.5 | 74.6 | 89.5 NM_006750.2 |
| 192.5 | 144.7 | 143.5 | 117.2 NM_006750.2 |
| 75 | 78.7 | 82.2 | 88 NM_018967.2 |
| 93.3 | 98.1 | 90.5 | 93.2 NM_018968.2 |
| 763.9 | 628 | 528.6 | 480.9 NM_001042581.1 |
| 1849.8 | 1372.1 | 1243.3 | 923.3 NM_005678.3 |
| 109.7 | 89.4 | 103.1 | 101.7 NM_022804.2 |
| 152.6 | 138.7 | 118.2 | 140.8 NM_012245.2 |
| 158.3 | 196.7 | 209.9 | 207.3 NM_003099.3 |
| 185.3 | 233 | 265.2 | 241.8 NM_013322.2 |
| 588 | 474.7 | 439.6 | 265.4 NM_152244.1 |
| 95.9 | 99.5 | 95.4 | 91.5 NM_152244.1 |
| 112.5 | 116.4 | 108.5 | 115.6 NM_013346.2 |
| 184.4 | 183.9 | 172 | 178.5 NM_015132.2 |
| 95.6 | 69.3 | 87.4 | 73.1 NM_153816.2 |
| 570 | 447.5 | 439.2 | 483.1 NM_020468.2 |
| 100.5 | 97.5 | 99.2 | 97.4 NM_013306.3 |
| 108.9 | 102.1 | 100.6 | 105.4 NM_013306.3 |
| 240.3 | 200.9 | 192.6 | 175 NM_022133.2 |
| 85.1 | 73.9 | 80.9 | 82.7 NM_152837.1 |
| 1369.2 | 1132.3 | 1066 | 712 NM_014748.2 |
| 301.2 | 241 | 230 | 236.4 NM_014758.1 |
| 1646.3 | 1608.6 | 1417.3 | 1184.8 NM_003100.2 |
| 79.4 | 85.7 | 87.7 | 79.4 NM_001042633.1 |
| 92.2 | 90.7 | 87.7 | 84.3 NM_024798.2 |
| 95.1 | 100.2 | 104.1 | 106.6 NM_014035.1 |
| 127 | 122.8 | 101.7 | 108.4 NM_031953.2 |
| 513.7 | 636.7 | 788.7 | 374.7 NM_052948.2 |
| 1388.1 | 1501.7 | 1510.6 | 700.8 NM_030918.5 |
| 9321.5 | 8087.6 | 8767 | 6478.9 NM_152828.2 |
| 852.9 | 679.3 | 716.9 | 547.6 NM_003794.2 |
| 408.5 | 288.2 | 268.5 | 219.5 NM_152227.1 |
| 258.7 | 244.5 | 223.5 | 184.7 NM_014426.2 |
| 309.8 | 228.2 | 249.8 | 168.3 NM_152233.1 |
| 103.2 | 92.8 | 94.7 | 93.3 NM_021249.2 |
| 82.1 | 75.3 | 82.8 | 85.4 NM_152238.1 |
| 116.3 | 108.6 | 89.2 | 106.7 NM_152238.1 |
| 116 | 110.5 | 99.8 | 115.1 NM_015976.2 |
| 324.3 | 268.3 | 254.1 | 224.7 NM_013321.1 |
| 79.7 | 73.6 | 86 | 83.2 NM_016224.3 |
| 138.9 | 122.6 | 100.7 | 125.4 NM_003101.4 |
| 86.2 | 85.6 | 80 | 78.3 NM_003578.3 |
| 92.6 | 97.1 | 93.3 | 93 NM_003745.1 |

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| 102.1 | 104.5 | 104.5 | 106.7 NM_003877.3 |
| 87.6 | 84.7 | 87.4 | 84.4 NM_003955.3 |
| 120.3 | 109.6 | 90.1 | 98.9 NM_199421.1 |
| 446.1 | 348.2 | 324.9 | 349 NM_080867.2 |
| 81.4 | 73.3 | 79.2 | 85.9 NM_144949.2 |
| 97.3 | 82.7 | 70.3 | 86.8 NM_014011.4 |
| 118.6 | 103.5 | 105.8 | 106.8 NM_014011.4 |
| 87.1 | 95.2 | 87.7 | 82 NM_004232.2 |
| 106 | 88.5 | 96.8 | 101 XM_936572.1 |
| 90.7 | 97.8 | 80.7 | 81.4 NM_014598.1 |
| 6568.4 | 4331.8 | 4220.2 | 3870.8 NM_000454.4 |
| 258 | 212.2 | 199.8 | 179.5 NM_001024466.1 |
| 1347.5 | 1163.2 | 910.4 | 962.9 NM_001024465.1 |
| 94 | 86.7 | 88.7 | 88.8 NM_000636.2 |
| 81.2 | 84.5 | 71.5 | 77.5 NM_003102.1 |
| 86.1 | 79.3 | 78 | 80.3 NM_017826.1 |
| 161.8 | 158.9 | 132.7 | 136.6 NM_005632.2 |
| 228 | 327.8 | 263.8 | 283 NM_032195.1 |
| 176.2 | 159.1 | 158.8 | 167.2 NM_138927.1 |
| 295.5 | 339.5 | 272.1 | 251.1 NM_032195.1 |
| 2495.5 | 3044.6 | 3050.5 | 2669.5 NM_138927.1 |
| 113.8 | 89.1 | 92.4 | 94 NM_015385.1 |
| 88 | 98.3 | 86.3 | 86 NM_015385.2 |
| 93.7 | 93.6 | 90.5 | 99.1 NM_006434.1 |
| 84.3 | 92.1 | 82.4 | 84.3 NM_001034955.1 |
| 104 | 100.9 | 93.3 | 94.9 NM_001034954.1 |
| 104.2 | 91.6 | 85.6 | 100.8 NM_003603.4 |
| 77.7 | 79.1 | 80.5 | 86.1 NM_003603.4 |
| 101.7 | 86.8 | 87.1 | 87 NM_021069.3 |
| 90.8 | 86.3 | 86.2 | 83 NM_001018003.1 |
| 109.7 | 98.9 | 85.6 | 104 NM_005775.3 |
| 464.4 | 212 | 199.6 | 147.3 NM_005775.3 |
| 81.3 | 76.9 | 74 | 81.5 NM_001013031.1 |
| 93.7 | 98.3 | 88.9 | 92.4 NM_001013031.1 |
| 86.1 | 87 | 88.1 | 93.6 NM_052918.3 |
| 83 | 90.7 | 69.9 | 92.3 NM_020777.1 |
| 77 | 78.1 | 80.6 | 74.2 NM_014978.1 |
| 161.5 | 135 | 115.5 | 113.6 NM_003104.3 |
| 172.5 | 148.4 | 120.3 | 134.9 NM_003104.3 |
| 121.2 | 146.8 | 138.1 | 125.6 NM_003105.3 |
| 142.3 | 137.5 | 133.6 | 109.6 NM_002959.4 |
| 127.4 | 137.8 | 126.6 | 134.4 NM_005633.2 |
| 110.4 | 99.3 | 102.8 | 82.5 NM_006939.1 |
| 87.7 | 81.8 | 80 | 90.4 NM_025237.2 |
| 117.2 | 99.4 | 96.9 | 109.4 NM_015464.1 |
| 84.1 | 82.2 | 82 | 83.6 NM_005986.2 |
| 82.1 | 84.8 | 84.2 | 83.7 NM_006941.3 |
| 88.3 | 80.5 | 78.4 | 83.7 NM_003108.3 |
| 107.8 | 115.6 | 119.8 | 108.7 NM_006943.2 |
| 131.5 | 176.1 | 189.2 | 115.3 NM_005686.2 |

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| 97 | 86.6 | 84.8 | 88 NM_004189.2 |
| 106.7 | 95.4 | 98.4 | 94 NM_006942.1 |
| 84.2 | 83.1 | 86.2 | 83.8 NM_022454.2 |
| 202 | 122.6 | 137.1 | 108.6 NM_018419.2 |
| 87.4 | 72.9 | 76.8 | 84.5 NM_003106.2 |
| 104.6 | 108.3 | 96.2 | 95.5 NM_007084.2 |
| 138.6 | 103.9 | 98.6 | 94.5 NM_005634.2 |
| 79.8 | 82.3 | 82.7 | 88.4 NM_007017.2 |
| 96.2 | 94.8 | 90 | 97.3 NM_178424.1 |
| 112.3 | 109 | 107.9 | 107 NM_003107.2 |
| 89.1 | 84.6 | 85.8 | 87.2 NM_152989.2 |
| 84 | 81.2 | 84.8 | 82.3 NM_006940.4 |
| 100.9 | 96.9 | 83.9 | 92.7 NM_152989.2 |
| 91.2 | 83.4 | 80.3 | 81.9 NM_017508.1 |
| 93 | 90.8 | 91.1 | 97.1 NM_017508.1 |
| 83.3 | 78.8 | 84.6 | 82.2 NM_017508.1 |
| 79.5 | 80.3 | 70.6 | 79.5 NM_033326.2 |
| 99.9 | 92.5 | 93 | 91.7 NM_031439.2 |
| 96.6 | 101.8 | 91.8 | 92 NM_014587.2 |
| 94.2 | 100.9 | 96.9 | 105.2 NM_000346.2 |
| 340.1 | 362.6 | 354.4 | 229.1 NM_138473.2 |
| 197.4 | 199.1 | 171 | 156.6 NM_001080391.1 |
| 141.8 | 142.2 | 136.4 | 136.1 NM_003113.2 |
| 178.2 | 170.4 | 157.2 | 161.6 NM_001080391.1 |
| 685.7 | 418.6 | 425.1 | 340.9 NM_004510.2 |
| 446.5 | 382.2 | 309.8 | 257.9 NM_004510.2 |
| 91 | 102.2 | 95.3 | 91.2 NM_080424.1 |
| 88.9 | 85 | 79.8 | 78.2 NM_001005176.1 |
| 100 | 103.1 | 90 | 94.5 NM_007237.3 |
| 87.4 | 98.5 | 84 | 86.4 NM_001005176.1 |
| 263.5 | 285.4 | 226.5 | 237.1 NM_003110.4 |
| 160.6 | 155.2 | 155.6 | 179.2 NM_001017371.3 |
| 97.3 | 90.3 | 92.3 | 84.5 NM_001017371.3 |
| 102.9 | 93.6 | 102.3 | 100.9 NM_003111.3 |
| 111.6 | 102.7 | 93.7 | 120.7 NM_003112.3 |
| 98.1 | 99.3 | 87.6 | 94.1 NM_001003845.1 |
| 93.4 | 94.5 | 90.7 | 92.7 NM_199262.2 |
| 85.5 | 91.9 | 78.3 | 84.5 NM_152860.1 |
| 79 | 89 | 75.8 | 82.4 NM_182700.2 |
| 98.1 | 86.5 | 86.7 | 104.2 NM_198956.1 |
| 536.9 | 217.1 | 200.2 | 203.9 NM_017425.2 |
| 104.6 | 107.4 | 92.2 | 89.9 NM_030960.2 |
| 94.8 | 102.2 | 105.9 | 86.6 NM_173847.2 |
| 94.4 | 84.4 | 81.2 | 90 NM_133498.2 |
| 96.5 | 86.8 | 80.7 | 82.5 NM_205856.2 |
| 96.5 | 83.1 | 88.3 | 91.7 NM_001079900.1 |
| 168 | 117.5 | 100.9 | 112.6 NM_003114.3 |
| 111.2 | 106.8 | 111.3 | 106.7 NM_003114.3 |
| 78.7 | 83.6 | 91 | 87.7 NM_172218.1 |
| 84.4 | 84.4 | 75.3 | 84.9 NM_058203.1 |

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| 105.1 | 95.3 | 91.2 | 90.9 NM_001081552.2 |
| 82.8 | 92 | 76.3 | 73.5 NM_024532.3 |
| 101.3 | 78.9 | 81.4 | 86.9 NM_001025436.1 |
| 99.8 | 97 | 98.9 | 105.6 NM_001025436.1 |
| 87.3 | 91.9 | 82.9 | 87.5 NM_206996.1 |
| 106.1 | 116 | 102.7 | 101.5 NM_003116.1 |
| 101.5 | 103.3 | 96.9 | 103.8 NM_080675.3 |
| 178.8 | 158.2 | 131.2 | 149.2 NM_006461.3 |
| 101.8 | 92.7 | 87.4 | 90.2 NM_012443.2 |
| 134.3 | 99.5 | 94.5 | 113.7 NM_172242.1 |
| 244.6 | 254.7 | 210.2 | 184.2 NM_004890.1 |
| 86.8 | 100.2 | 86.4 | 93.7 NM_172312.1 |
| 85.6 | 83.6 | 82 | 97.5 NM_001039592.1 |
| 274.1 | 386.9 | 276.5 | 250.6 NM_172345.1 |
| 127.3 | 155.4 | 130.3 | 138.5 NM_172345.1 |
| 776.8 | 1117.3 | 942 | 792.2 NM_003971.3 |
| 103.1 | 100.6 | 110.3 | 90.9 NM_003117.3 |
| 99.2 | 89.6 | 86.4 | 87.3 NM_153189.1 |
| 86.4 | 81.7 | 78.5 | 85.8 NM_013453.2 |
| 85.1 | 91.6 | 81.1 | 80.8 NM_032461.2 |
| 79.4 | 81.1 | 81.3 | 75.5 NM_022661.2 |
| 96.7 | 93.5 | 89.6 | 98.1 NM_145665.1 |
| 89.3 | 81.3 | 83.3 | 83.3 NM_001009614.1 |
| 92.9 | 85.1 | 87.5 | 86 NM_001009615.1 |
| 87.3 | 77.6 | 73.3 | 85.5 NM_001009609.1 |
| 84.7 | 79.5 | 85.4 | 77.9 NM_001009613.1 |
| 81.3 | 76.9 | 87.5 | 76.1 NM_001009616.1 |
| 80.9 | 81.9 | 73.7 | 84.3 NM_003118.2 |
| 76.9 | 86.7 | 74.5 | 83.4 NM_004684.2 |
| 118.5 | 126.6 | 113.9 | 118.5 NM_199436.1 |
| 106.7 | 86.1 | 98.7 | 92.7 NM_014946.3 |
| 88.1 | 84.2 | 80.1 | 88.6 NM_022354.1 |
| 90.3 | 93.2 | 98.2 | 92.2 NM_181727.1 |
| 100.1 | 102.9 | 100 | 92.7 NM_153023.1 |
| 94.9 | 84.7 | 78.5 | 84.6 NM_031955.2 |
| 89.9 | 99.7 | 91.5 | 93.7 NM_145263.1 |
| 76.5 | 86.9 | 90.6 | 89.7 NM_174927.1 |
| 181.1 | 192.3 | 167.5 | 151.4 NM_006038.2 |
| 496.1 | 562.3 | 547.9 | 311.9 NM_022827.2 |
| 80.7 | 91.4 | 85.7 | 81.7 NM_198546.1 |
| 87.9 | 82.9 | 82.8 | 95.3 NM_032598.2 |
| 85.1 | 85.9 | 76.3 | 82.8 NM_139073.2 |
| 102.1 | 98.7 | 90.9 | 90.2 NM_144644.2 |
| 93 | 87.7 | 77.9 | 80.4 NM_145207.1 |
| 643.1 | 498.9 | 376.3 | 468.6 NM_024063.1 |
| 90.1 | 87.7 | 85.3 | 77.2 NM_019073.1 |
| 248.4 | 230.9 | 251.1 | 194.7 NM_018418.1 |
| 87.6 | 87.8 | 82.6 | 94.8 NM_018418.1 |
| 105.3 | 102.3 | 94 | 97.6 NM_018418.1 |
| 105 | 112.1 | 101.6 | 108.2 NM_173499.2 |

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| 82.7 | 82.6 | 90.2 | 98.3 NM_173360.2 |
| 92.2 | 83.8 | 82.3 | 84 XM_937647.1 |
| 98.7 | 96.1 | 95.4 | 95.8 NM_198572.1 |
| 71.4 | 79.5 | 78.5 | 76 NM_145026.2 |
| 122.2 | 124.3 | 106.7 | 108.1 NM_023071.1 |
| 732.4 | 390.6 | 376.2 | 341.7 NM_182513.1 |
| 243.9 | 99.8 | 79.2 | 83.3 NM_020675.3 |
| 9225.7 | 5885.5 | 5343.5 | 5901.1 NM_014041.2 |
| 103.7 | 85 | 74.6 | 83.8 NM_014752.1 |
| 354.8 | 181.5 | 177.7 | 172.1 NM_021928.1 |
| 83.8 | 84.9 | 89.5 | 85.3 NM_012391.1 |
| 97.1 | 101.4 | 99.6 | 98.9 NM_001008779.1 |
| 93.1 | 91.1 | 88.4 | 100.1 NM_182756.2 |
| 83.1 | 84.9 | 82 | 88.1 NM_001008779.1 |
| 95.7 | 94.4 | 94.3 | 76.7 NM_001033554.1 |
| 114.4 | 97 | 92.1 | 105.5 NM_001033554.1 |
| 734.6 | 1023.5 | 1065.8 | 655.1 NM_015001.2 |
| 90.9 | 96.7 | 100.6 | 83.1 NM_152719.1 |
| 101.9 | 92.3 | 92.9 | 88.5 NM_145658.1 |
| 115.7 | 126.3 | 127.6 | 116.5 NM_006459.2 |
| 117.4 | 101.3 | 90.2 | 97.2 NM_001003790.1 |
| 580.8 | 552.5 | 524 | 425.6 NM_007175.5 |
| 140.8 | 150.2 | 139.3 | 145.5 NM_015087.3 |
| 206.3 | 148.3 | 127.4 | 115.1 NM_016630.3 |
| 886.9 | 731.5 | 639 | 463.3 XM_945608.1 |
| 136.5 | 125.8 | 126.9 | 111.8 NM_181598.2 |
| 194.1 | 170.6 | 173 | 144.3 NM_199367.1 |
| 106.4 | 106 | 114.2 | 114.9 NM_199367.1 |
| 950.5 | 1102.3 | 1498.9 | 710.2 NM_003119.2 |
| 125.6 | 119.7 | 107.2 | 106.9 NM_006542.2 |
| 124.1 | 157.6 | 135.9 | 125.8 NM_021972.2 |
| 93.2 | 84.9 | 91.6 | 90.9 NM_182965.1 |
| 1244.6 | 807.9 | 758.2 | 331.5 NM_020126.3 |
| 401.1 | 279.8 | 201.5 | 271.4 NM_003120.2 |
| 855.4 | 649.9 | 430.7 | 446.5 NM_003120.1 |
| 146.2 | 92.1 | 99.2 | 119.4 NM_003121.2 |
| 92.5 | 101.3 | 84.2 | 95.2 NM_152323.1 |
| 202.8 | 175.4 | 173.5 | 173.3 NM_006717.1 |
| 509.9 | 498.1 | 523.4 | 323.6 NM_032038.1 |
| 93.8 | 96.7 | 88.5 | 92.4 NM_019003.2 |
| 89.9 | 77.3 | 81.9 | 82.8 NM_001006681.1 |
| 101 | 85.6 | 91.2 | 88.5 NM_001006682.1 |
| 92 | 89.9 | 87.1 | 94.3 NM_003122.2 |
| 89.8 | 87.8 | 76.3 | 85.6 NM_021114.1 |
| 82.3 | 85.4 | 83 | 80.8 NM_014471.1 |
| 102.4 | 87.5 | 89.6 | 88.7 NM_006846.2 |
| 96.5 | 92.8 | 86.2 | 94.5 NM_001001325.1 |
| 83.9 | 88.8 | 91.4 | 81.7 NM_205841.2 |
| 98.3 | 94.8 | 89 | 95.5 NM_032566.2 |
| 99.1 | 98.4 | 107.1 | 102.7 NM_001040433.1 |

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| 89.2 | 90.1 | 76.6 | 81 NM_020398.2 |
| 137.1 | 138.7 | 145.1 | 128.6 NM_181502.1 |
| 83.8 | 84.9 | 84 | 81.8 NM_020398.2 |
| 79.8 | 86.7 | 94.6 | 75.7 NM_181642.2 |
| 110 | 97.8 | 98 | 105.6 NM_003710.3 |
| 154.3 | 128.6 | 127.8 | 115.2 NM_021102.2 |
| 92.2 | 89.4 | 78.1 | 80.2 XM_938199.1 |
| 530.7 | 522.3 | 392.8 | 343 NM_020148.1 |
| 113.3 | 111.1 | 111.8 | 102.3 NM_032451.1 |
| 1886.2 | 987.8 | 1014.5 | 869.1 NM_001030288.1 |
| 101.4 | 91.6 | 87.5 | 84.1 NM_001030288.1 |
| 108.3 | 99.9 | 102.4 | 111.1 NM_003123.3 |
| 85.6 | 85.7 | 81.4 | 84.5 NM_012444.2 |
| 92 | 108.2 | 106 | 88.7 NM_198265.1 |
| 91.3 | 91.1 | 86.7 | 96.9 NM_144569.3 |
| 190.2 | 542.6 | 478.7 | 397.1 NM_004598.2 |
| 109.5 | 110 | 109.4 | 102.6 NM_014767.1 |
| 76.3 | 82.8 | 82.2 | 77.5 NM_016950.2 |
| 87.6 | 92.7 | 80.9 | 87.9 NM_006108.1 |
| 88.7 | 80.1 | 85 | 81.3 NM_012445.1 |
| 1533.4 | 2176.3 | 2106.4 | 1371.6 NM_001007230.1 |
| 101 | 94.5 | 96.4 | 87.1 NM_001007228.1 |
| 101.5 | 119 | 113 | 122.6 NM_000582.2 |
| 99.2 | 99.9 | 97.1 | 107.5 NM_001040058.1 |
| 78 | 85.1 | 78.6 | 89.4 NM_006944.2 |
| 1346.6 | 1049.2 | 933.8 | 718.6 NM_032802.2 |
| 96.1 | 102.2 | 94.9 | 94.8 NM_020172.1 |
| 85.6 | 107 | 92.3 | 94.2 NM_001077238.1 |
| 117.5 | 122.6 | 98.7 | 118.9 NM_152988.1 |
| 90 | 96.7 | 93.2 | 96.3 NM_139015.3 |
| 257.4 | 189.3 | 153.1 | 158 NM_003124.3 |
| 307.5 | 97.7 | 102.9 | 96.5 NM_152594.1 |
| 237.8 | 233.9 | 217.1 | 176.7 NM_181784.1 |
| 93.7 | 92.3 | 91.6 | 91.2 XM_946006.1 |
| 95.7 | 90.8 | 78.8 | 87.2 NM_001042522.1 |
| 99.1 | 96.2 | 80.9 | 90.5 NM_001039616.1 |
| 121.2 | 95.6 | 91.3 | 95.4 NM_001012508.2 |
| 86.8 | 80.6 | 70 | 83.5 NM_005987.2 |
| 106.1 | 102.7 | 105.3 | 102.3 NM_003125.1 |
| 88.2 | 85.3 | 76.6 | 88.9 NM_005988.2 |
| 100.7 | 85.4 | 91.9 | 90.1 NM_001017418.1 |
| 81.1 | 87.8 | 90.6 | 84.3 NR_003062.1 |
| 77 | 77.9 | 72.5 | 81.4 NM_006945.3 |
| 96.4 | 82.2 | 81.5 | 80.3 NM_001024209.2 |
| 82.3 | 80.2 | 79.4 | 87.5 NM_001014450.1 |
| 96.9 | 87.2 | 91.7 | 106.2 NM_001014291.1 |
| 99.1 | 95 | 97.6 | 101.5 NM_005416.1 |
| 86.2 | 97.9 | 81.1 | 101 NM_173080.1 |
| 87.1 | 84.4 | 90.4 | 86.1 NM_005841.1 |
| 94.2 | 96.8 | 89.8 | 78.9 NM_005841.1 |

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| 293.2 | 191.3 | 206.6 | 177 NM_005842.2 |
| 93.8 | 92.5 | 92 | 97.7 NM_005840.1 |
| 159.6 | 232.8 | 158.7 | 162.4 NM_030964.2 |
| 209.8 | 225.3 | 201.5 | 115.2 NM_032840.1 |
| 125.9 | 119.1 | 115.7 | 104.8 NM_025106.2 |
| 163.4 | 220.3 | 173.8 | 205.6 NM_032641.1 |
| 614.1 | 664.5 | 890.4 | 350.1 NM_080861.3 |
| 92.7 | 89 | 87.4 | 90.1 NM_080862.1 |
| 104.2 | 108.7 | 98.6 | 108.9 NM_003126.1 |
| 274.2 | 301.2 | 276.1 | 246.6 NM_003127.1 |
| 90.4 | 92 | 94.1 | 74.4 NM_001024858.1 |
| 102 | 99.3 | 93.4 | 91.2 NM_000347.4 |
| 96.9 | 97 | 95.1 | 94.9 NM_178313.1 |
| 102.3 | 97.3 | 87.2 | 95.6 NM_178313.1 |
| 160.3 | 157.7 | 153 | 155.1 NM_003128.1 |
| 108.9 | 96.7 | 101.9 | 89.3 NM_006946.1 |
| 81.7 | 91 | 94.5 | 85.4 NM_025213.2 |
| 91.6 | 88.3 | 85.3 | 87.9 NM_025213.2 |
| 90.2 | 81.6 | 92.1 | 86 NM_016642.1 |
| 1846.2 | 2054.8 | 2323.6 | 1759.1 NM_178324.1 |
| 223.1 | 178.2 | 158.4 | 152.4 NM_006415.2 |
| 300.4 | 216 | 196.8 | 166.5 NM_178324.1 |
| 127 | 153.7 | 133.8 | 135.9 NM_004863.2 |
| 81.3 | 85.3 | 79.2 | 85.1 NM_018327.2 |
| 186.9 | 167.7 | 152.6 | 139.9 NM_194285.2 |
| 101.6 | 96.7 | 89.2 | 89.3 NM_032567.2 |
| 2147.9 | 1722.4 | 1406.8 | 1863.9 NM_003129.3 |
| 531.9 | 487.2 | 386.1 | 315.5 NM_021199.2 |
| 1612.5 | 928.4 | 1346.5 | 709.3 NM_003900.3 |
| 1055.7 | 1228.9 | 792 | 846.6 NM_001080415.1 |
| 182.5 | 203.4 | 182.9 | 168 NM_001035235.2 |
| 106.2 | 113.8 | 98.9 | 107.5 NM_021228.1 |
| 84.7 | 86.9 | 82 | 89 NM_198291.1 |
| 94.6 | 97.7 | 100.2 | 87.1 NM_005417.3 |
| 220.4 | 154.4 | 143.7 | 147.1 NM_005417.3 |
| 89.5 | 96 | 89.3 | 87.5 NM_006662.1 |
| 95.6 | 89.8 | 79.8 | 81.9 NM_080744.1 |
| 104.5 | 91 | 94.6 | 94.9 NM_001047.1 |
| 92.3 | 91.3 | 81.4 | 82.6 NM_000348.2 |
| 145.9 | 132.5 | 124.9 | 131.6 NM_024592.1 |
| 90.2 | 78 | 80.4 | 75.5 NM_001010874.2 |
| 267.9 | 248.1 | 254.2 | 215.4 NM_004176.3 |
| 88.7 | 81.8 | 80.4 | 86.5 NM_001005291.1 |
| 139.2 | 134.9 | 132.9 | 149.7 NM_004176.3 |
| 117.6 | 103 | 103.3 | 89.3 NM_004599.2 |
| 1957 | 1744.6 | 1662.5 | 836.4 NM_003131.2 |
| 335.5 | 415.6 | 323.5 | 277.7 NM_152546.1 |
| 90.2 | 91.6 | 87.1 | 89.6 NM_020762.1 |
| 237.6 | 251.9 | 244.6 | 195.9 XM_936300.1 |
| 85.6 | 77.1 | 78.5 | 86.2 NM_015326.2 |

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| 95.5 | 109.2 | 111 | 109.5 NM_015326.2 |
| 83 | 87.2 | 78.1 | 81.8 NM_015326.2 |
| 111.4 | 128.6 | 128.5 | 113.6 NM_001033117.1 |
| 99.2 | 102.5 | 98.6 | 104.6 NM_014850.2 |
| 13558.8 | 10862.3 | 12205.9 | 7411.2 NM_002727.2 |
| 82.1 | 82.5 | 84.3 | 91.3 NM_198901.1 |
| 219.2 | 197 | 178.7 | 154.4 NM_003130.2 |
| 301.9 | 320.7 | 261.6 | 227.6 NM_003130.2 |
| 1034.6 | 618.5 | 466.4 | 408.8 NM_003132.2 |
| 95.4 | 92.1 | 91.6 | 89.8 NM_080823.2 |
| 6975 | 6516 | 6918.7 | 5639.2 NM_003134.2 |
| 1419.8 | 1377.7 | 1594.9 | 1261.8 NR_003273.1 |
| 976.1 | 797.2 | 637.4 | 717.3 NM_003135.1 |
| 859.8 | 602.4 | 485.7 | 436.6 NM_032102.1 |
| 1891.9 | 1420.2 | 1134.5 | 1188.1 NM_003136.2 |
| 1158.6 | 1168.6 | 931.2 | 842 NM_014230.2 |
| 336.3 | 286.4 | 230.6 | 229.7 NM_006947.2 |
| 8663.5 | 6588.8 | 5670.9 | 6312.9 NM_003133.2 |
| 1409.8 | 1301.9 | 1044 | 1201.9 NM_003137.3 |
| 117.3 | 147 | 143.2 | 143.7 NM_182691.1 |
| 128.8 | 100 | 102.3 | 109.9 NM_182692.1 |
| 108.2 | 110.1 | 100.1 | 115.2 NM_182691.1 |
| 683.5 | 323.7 | 250.8 | 222.3 NM_003139.2 |
| 2626.1 | 1437 | 1195.8 | 828.3 NM_021203.2 |
| 111.4 | 105 | 83.3 | 89.2 NM_006307.2 |
| 81.5 | 95.2 | 83 | 79.6 NM_014467.1 |
| 123.2 | 123.4 | 114.5 | 105.6 NM_021947.1 |
| 2423 | 1798.9 | 1817 | 1527.4 NM_005839.2 |
| 2403.2 | 2837.9 | 2953 | 2248.3 NM_016333.2 |
| 98.9 | 109 | 93.3 | 99.4 NM_080743.2 |
| 1016.8 | 667.4 | 485.9 | 556.2 NM_080725.1 |
| 89.5 | 89.6 | 83.8 | 82.5 NM_003140.1 |
| 105.4 | 102.9 | 84 | 83.1 NM_005637.2 |
| 103.4 | 107.7 | 105.1 | 101.5 NM_001007559.1 |
| 157.5 | 248.7 | 227.6 | 182 NM_015558.3 |
| 83.5 | 81.9 | 75.3 | 78.3 NM_198935.1 |
| 6935.1 | 4729.8 | 4561 | 3580 NM_016305.1 |
| 88.2 | 88.2 | 77 | 87.6 NM_003142.2 |
| 2676.3 | 1790.5 | 1519.8 | 1641.8 NM_003143.1 |
| 351.7 | 345.1 | 348.6 | 300.9 NM_012446.2 |
| 135.1 | 194.4 | 170.4 | 188.6 NM_018070.3 |
| 112.3 | 142.9 | 122.9 | 138 NM_145716.2 |
| 328.9 | 240.8 | 206.9 | 226.6 NM_032627.2 |
| 155.4 | 157.4 | 135 | 149.6 NM_006751.3 |
| 116.3 | 163.4 | 136.9 | 147.8 NM_018984.2 |
| 317.6 | 451.7 | 442.4 | 317.3 NM_033389.2 |
| 491.3 | 489.6 | 523.8 | 270.9 NM_017857.2 |
| 87 | 87.3 | 81.6 | 84.4 NM_017857.2 |
| 827.9 | 756.3 | 606.3 | 528.3 NM_003731.1 |
| 95 | 85.3 | 77.5 | 91.4 NM_005086.3 |

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| 1613.6 | 1441.7 | 1314.8 | 1234.7 | NM_003144.2 |
| 1573.2 | 1374.6 | 985.8 | 852.9 | NM_003145.2 |
| 149.2 | 120.3 | 123.6 | 118.3 | NM_007107.2 |
| 5491.5 | 4687.4 | 4267.2 | 3021.9 | NM_006280.1 |
| 247.6 | 224 | 191 | 160.3 | NM_003146.2 |
| 158.4 | 110.9 | 117.6 | 102.5 | NM_006396.1 |
| 80.7 | 81.4 | 86.4 | 80.7 | NM_001048.3 |
| 74.5 | 77.2 | 74 | 78 | NM_001049.2 |
| 211.9 | 265.1 | 309.9 | 274.3 | NM_001050.2 |
| 100.3 | 85.4 | 100 | 89.8 | NM_001051.2 |
| 94.7 | 84.5 | 79.9 | 92.3 | NM_001052.1 |
| 78 | 89.9 | 86.4 | 89 | NM_001053.1 |
| 3221.9 | 2414.2 | 2205.4 | 1391.7 | NM_014188.2 |
| 87.7 | 81.1 | 87.5 | 96.8 | NM_005635.2 |
| 97.7 | 94.4 | 89.7 | 90.5 | NM_003147.4 |
| 83.7 | 76.1 | 75.1 | 85.3 | NM_003147.4 |
| 103.2 | 113.9 | 103.3 | 101.2 | NM_014021.2 |
| 84.4 | 85.9 | 87.1 | 85.2 | NM_175711.1 |
| 94.4 | 94.7 | 96.1 | 93.5 | NM_021014.2 |
| 85 | 87.3 | 85.6 | 87.9 | NM_175711.1 |
| 79.3 | 84.8 | 74 | 96.6 | NM_175729.1 |
| 92.4 | 92.2 | 82.3 | 87.5 | NM_005636.3 |
| 87.6 | 89 | 91.6 | 87.7 | NM_001034832.2 |
| 93.2 | 96.7 | 94 | 87.6 | NM_001034832.2 |
| 94.2 | 86.5 | 86.1 | 78.8 | NM_021015.3 |
| 96.4 | 94.8 | 86.3 | 92.6 | NM_021015.3 |
| 93 | 82.2 | 79.5 | 82.1 | NM_173357.2 |
| 85.6 | 88.7 | 78.5 | 80.1 | NM_173358.2 |
| 98.3 | 96.5 | 96.8 | 95.2 | NM_174962.2 |
| 71.7 | 71.6 | 80.3 | 77.2 | XM_937492.1 |
| 682 | 739.7 | 595.1 | 591.8 | NM_003932.3 |
| 353.5 | 303.2 | 231.6 | 223.1 | NM_021978.2 |
| 88.9 | 78 | 80.3 | 88.4 | NM_014682.1 |
| 332.7 | 418.3 | 333.8 | 333.1 | NM_173344.1 |
| 116.5 | 109.2 | 116.4 | 98.4 | NM_003033.2 |
| 101.7 | 126 | 123.9 | 101.7 | NM_006927.2 |
| 291.7 | 220.1 | 234.3 | 195.5 | NM_174970.1 |
| 575.3 | 511.4 | 539.5 | 282 | NM_006279.2 |
| 304 | 188.6 | 194.6 | 175.2 | NM_006278.1 |
| 117.8 | 111.7 | 123 | 97.6 | NM_001042437.1 |
| 198.1 | 225.8 | 217.8 | 214.7 | NM_003896.2 |
| 341.1 | 441 | 380.3 | 279.7 | NM_006100.2 |
| 88.7 | 93 | 86 | 81.7 | NM_139157.2 |
| 114.3 | 95.3 | 97.9 | 89.5 | NM_005418.3 |
| 84.4 | 90.4 | 79.8 | 79.3 | NM_005418.3 |
| 96.9 | 106.7 | 92.4 | 102.2 | NM_213618.1 |
| 81.1 | 98.5 | 89.8 | 91.8 | NM_173216.1 |
| 351.1 | 347.2 | 307.6 | 240.9 | NM_173217.1 |
| 96.5 | 93.6 | 82.3 | 93.7 | NM_003032.2 |
| 92.6 | 98.1 | 91 | 84.7 | NM_032528.1 |

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| 80.6 | 77.9 | 76.8 | 89.1 NM_018414.2 |
| 87.7 | 89.9 | 92.2 | 88.8 NM_006456.1 |
| 100.9 | 89.6 | 93.8 | 92.7 NM_152996.1 |
| 252.6 | 210.7 | 175.6 | 166 NM_175040.1 |
| 106.8 | 104.3 | 99.6 | 100.1 NM_175039.3 |
| 181.5 | 173.4 | 147.6 | 114.6 NM_175039.3 |
| 91.8 | 96.3 | 79.1 | 88 NM_030965.1 |
| 206.7 | 172.6 | 159.9 | 178.1 NM_013443.3 |
| 186.1 | 154.8 | 154.8 | 129.9 NM_018412.3 |
| 170.9 | 128 | 122.2 | 112 NM_021908.2 |
| 301.7 | 248.9 | 223.4 | 202.5 NM_018412.3 |
| 133.1 | 114.8 | 104.5 | 107.9 NM_138729.2 |
| 199.1 | 129.4 | 124.3 | 108.6 NM_138729.2 |
| 101.5 | 102.5 | 96.6 | 106.9 NM_198327.1 |
| 87.1 | 85.5 | 79.3 | 82.3 NM_003034.2 |
| 88.9 | 90.6 | 85.3 | 91.6 NM_006011.3 |
| 101.4 | 101.6 | 97 | 100.6 NM_015879.1 |
| 118.6 | 107.1 | 107.5 | 119.5 NM_175052.1 |
| 89.5 | 76.5 | 81.4 | 80.2 NM_175052.1 |
| 120.6 | 104.3 | 103.8 | 102.2 NM_005668.3 |
| 149.9 | 111.1 | 109.8 | 99.3 NM_013305.3 |
| 97.1 | 86.9 | 87.7 | 97.1 NM_001004470.1 |
| 85.4 | 78.5 | 82.6 | 81.4 NM_015136.2 |
| 95 | 80.1 | 89.4 | 89.2 NM_017564.9 |
| 95.7 | 78.3 | 78.6 | 91.2 NM_003149.1 |
| 96.6 | 96.8 | 96.8 | 107.2 NM_198993.2 |
| 109.4 | 96.2 | 113.9 | 101.3 NM_145064.1 |
| 391.9 | 301.5 | 269.2 | 240.4 NM_005862.2 |
| 122.5 | 106 | 98.4 | 97.1 NM_001042749.1 |
| 430.1 | 576 | 450.3 | 689.2 NM_006603.3 |
| 88.8 | 90.3 | 80.7 | 88.9 NM_006603.3 |
| 103.2 | 106.3 | 98.2 | 96.1 NM_012447.2 |
| 313.2 | 202.9 | 203.1 | 166.4 NM_003473.2 |
| 152.2 | 144.5 | 129.8 | 140.3 NM_005843.3 |
| 774.2 | 823.8 | 775.3 | 637 NM_201647.1 |
| 91.5 | 86.1 | 83.8 | 84.8 NM_213622.1 |
| 485.3 | 449.5 | 382.9 | 358.6 NM_006463.3 |
| 151.5 | 119 | 112.7 | 131.5 NM_020799.2 |
| 99.5 | 80.7 | 85.4 | 85.2 NM_017720.2 |
| 99.6 | 92.9 | 78.5 | 88.4 XM_939590.1 |
| 118.6 | 120.4 | 113.5 | 94.7 NM_017720.2 |
| 98.1 | 93.1 | 92.9 | 98.7 NM_017720.2 |
| 122.3 | 106.6 | 112.5 | 124.4 NM_001007243.1 |
| 169.5 | 118.3 | 98.7 | 105.2 NM_000349.2 |
| 137.2 | 123.3 | 144.4 | 117.4 NM_001007243.1 |
| 130.9 | 145.4 | 152.1 | 141.3 NM_006645.1 |
| 91.9 | 78.9 | 79.6 | 83 NM_052851.1 |
| 95.1 | 98.7 | 119.4 | 104.6 NM_178006.1 |
| 116.2 | 149.4 | 155.1 | 137.4 NM_178006.1 |
| 124.3 | 123.5 | 115.1 | 102.8 NM_178007.1 |

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| 144 | 124.3 | 118 | 123.3 NM_006804.2 |
| 527.1 | 517.6 | 411.9 | 405.6 NM_032016.2 |
| 87.8 | 87.7 | 86.8 | 85 NM_139164.1 |
| 83.8 | 83.9 | 88.7 | 86 NM_181900.2 |
| 147.7 | 152.6 | 143.7 | 113 NM_181900.2 |
| 81.9 | 78.8 | 81.1 | 80.9 NM_139171.1 |
| 5146.6 | 5217.1 | 4162.1 | 3706.1 NM_020151.2 |
| 1175 | 1054.8 | 951.2 | 940.8 NM_139267.1 |
| 151.2 | 116.3 | 103.4 | 103.6 NM_020151.2 |
| 115 | 115 | 117.6 | 100.3 NM_014725.2 |
| 276.9 | 195.6 | 187.1 | 206.9 NM_139266.1 |
| 884 | 519 | 574.4 | 438.5 NM_139266.1 |
| 1561.5 | 1580.6 | 1347.3 | 1121.3 NM_007315.2 |
| 547.7 | 1752.8 | 1932.8 | 1467.1 NM_005419.2 |
| 574.7 | 742.6 | 674.4 | 575.9 NM_213662.1 |
| 105.2 | 103.8 | 85.9 | 91.3 NM_003151.2 |
| 278.2 | 329.3 | 294.6 | 268.3 NM_003152.2 |
| 210.6 | 274 | 223.9 | 248.5 NM_012448.3 |
| 362.7 | 532.3 | 505.1 | 341.1 NM_003153.3 |
| 89.6 | 96.5 | 98.2 | 91.5 NM_001009181.1 |
| 665 | 658.2 | 612.1 | 500.1 NM_018255.1 |
| 98.1 | 102.6 | 96.2 | 101.9 NM_017453.1 |
| 578.5 | 573.3 | 430.5 | 551.3 NM_017454.1 |
| 3843.2 | 3417.9 | 3213.5 | 2367.9 NM_017454.2 |
| 343.1 | 199.8 | 165.2 | 196.5 NM_014393.1 |
| 97.7 | 92 | 91 | 96.6 NM_003155.2 |
| 120.7 | 84.7 | 85.3 | 89.8 NM_003714.2 |
| 140.9 | 135.4 | 149.3 | 150.1 NM_006948.4 |
| 84.5 | 81.2 | 77.6 | 82 NM_012449.2 |
| 98.2 | 94.4 | 95.2 | 98.9 NM_152999.2 |
| 87.6 | 96.6 | 85.1 | 88 NM_152999.2 |
| 77.7 | 79 | 83.5 | 87.9 NM_152999.2 |
| 85.8 | 83.8 | 72.3 | 80.2 NM_182915.2 |
| 416.1 | 481.4 | 440.7 | 269 NM_018234.2 |
| 77.4 | 80 | 85.7 | 73.1 NM_018234.2 |
| 88.4 | 77.9 | 81.7 | 86.4 NM_024636.1 |
| 89.1 | 96 | 79.4 | 79.3 NM_001006608.1 |
| 88.2 | 99.5 | 89.6 | 99.5 NM_001007532.1 |
| 1480.3 | 1282.7 | 1274.3 | 941.2 NM_003035.2 |
| 187.3 | 225.9 | 153.2 | 195.2 NM_003156.2 |
| 113.9 | 103.9 | 106.1 | 104.8 NM_020860.1 |
| 1689.9 | 1069.6 | 891.9 | 638.3 NM_006819.1 |
| 253.8 | 243.8 | 217.4 | 187.6 NM_005990.2 |
| 99.6 | 105.1 | 107.7 | 114.1 NM_000455.4 |
| 257.7 | 254.7 | 242.9 | 231.6 NM_052902.1 |
| 114.9 | 104.5 | 101.7 | 93.7 NM_003691.2 |
| 112.8 | 100.7 | 98.2 | 92.4 NM_001008910.1 |
| 90.1 | 84.6 | 94 | 78.6 NM_003691.2 |
| 86.7 | 86.7 | 81.6 | 81.9 NM_004760.1 |
| 92.2 | 100.6 | 86.5 | 92 NM_004226.2 |

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| 554 | 588 | 693.4 | 349.1 NM_004197.1 |
| 446.4 | 428.1 | 494.8 | 290.4 NM_032454.1 |
| 112.8 | 106.7 | 98 | 104.3 NM_014370.2 |
| 84.4 | 77.3 | 76.8 | 80.6 NM_003576.2 |
| 93.6 | 88.6 | 92.4 | 103.1 NM_001032296.1 |
| 4397.6 | 2421.2 | 2177.3 | 1518 NM_001032296.1 |
| 379.8 | 529.3 | 483.9 | 274.2 NM_006374.3 |
| 702.6 | 489.5 | 383.2 | 470.1 NM_006281.1 |
| 95.8 | 90.5 | 80.9 | 85.3 NM_031414.2 |
| 110.2 | 100.8 | 94.1 | 101.7 NM_031414.2 |
| 84 | 79 | 75.1 | 79.1 NM_032944.1 |
| 85.4 | 79.5 | 79.2 | 81.1 NM_145001.1 |
| 105 | 97.6 | 86.8 | 83.4 NM_018401.1 |
| 102.4 | 94.6 | 95.7 | 94.2 NM_173575.2 |
| 100.3 | 86.3 | 85.1 | 88.2 NM_030906.2 |
| 121.5 | 96.2 | 90 | 89.3 NM_080836.2 |
| 412.5 | 523 | 564.3 | 325.6 NM_015690.2 |
| 557 | 861.1 | 717.1 | 725.6 NM_007271.2 |
| 101 | 105.4 | 93.1 | 107.9 NM_015000.1 |
| 691.1 | 781.5 | 638.3 | 598.7 NM_013233.1 |
| 2378.6 | 1855.9 | 1631.3 | 1073.2 NM_006282.2 |
| 1050.5 | 1366.5 | 1221.6 | 811 NM_032017.1 |
| 101 | 105.3 | 91.1 | 94.3 NR_001587.1 |
| 105.5 | 94.7 | 100.2 | 94.5 NM_203399.1 |
| 3256.7 | 2350.3 | 1757.3 | 1522.6 NM_005563.3 |
| 322.7 | 252.5 | 216.5 | 210.4 NM_005563.3 |
| 78.2 | 84.4 | 72 | 75.3 NM_203401.1 |
| 88.8 | 83.5 | 81.6 | 84.5 NM_007029.2 |
| 88.8 | 92.5 | 79.9 | 84.3 NM_030795.2 |
| 588.7 | 381.2 | 288.5 | 233.4 NM_004099.4 |
| 506.4 | 201.3 | 203.1 | 146.1 NM_004099.4 |
| 108 | 106.2 | 94.8 | 92.8 NM_004809.3 |
| 3934.4 | 1954.9 | 1554.5 | 1332.5 NM_013442.1 |
| 83.9 | 88.5 | 85.4 | 84.3 NM_145286.1 |
| 85.7 | 95.4 | 80.7 | 85.6 NM_006873.2 |
| 91 | 83 | 83.4 | 87.6 NM_033104.2 |
| 89.4 | 82.4 | 87.2 | 86.1 NM_152709.3 |
| 217.2 | 251.9 | 265.3 | 229.4 NM_020225.1 |
| 2254.5 | 2284.3 | 2223.3 | 1242.8 NM_144998.2 |
| 93 | 82.7 | 80 | 88.6 NM_022369.2 |
| 481.1 | 384.6 | 296.7 | 288.4 NM_007178.2 |
| 391.4 | 492.4 | 408.2 | 495.3 NM_018387.2 |
| 104.6 | 108.5 | 116.4 | 103.6 NM_153700.2 |
| 117.1 | 109.4 | 101.5 | 104.7 NM_003162.2 |
| 682.8 | 608.9 | 491.9 | 493.5 NM_014574.2 |
| 181.4 | 150.3 | 135.1 | 128.5 NM_013403.1 |
| 102.9 | 106.5 | 102.7 | 94.1 NM_013403.2 |
| 84.5 | 99.6 | 80.8 | 84.7 NM_000351.3 |
| 257.8 | 285.5 | 271.9 | 181.6 NM_032873.3 |
| 1778.5 | 1287.2 | 936.7 | 821.8 NM_152713.2 |

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| 383.5 | 356.7 | 253.2 | 286.1 NM_178862.1 |
| 1039.3 | 834.1 | 732.8 | 668.5 NM_005861.2 |
| 686.4 | 725.3 | 724 | 569.4 NM_003765.1 |
| 312.2 | 433.3 | 293.5 | 347.1 NM_003764.2 |
| 233.9 | 217.5 | 194.4 | 176.7 NM_177424.1 |
| 90.5 | 90.1 | 96 | 89.8 NM_001001433.1 |
| 1823.1 | 2870.6 | 3301 | 1727.7 NM_003763.3 |
| 114.5 | 100.4 | 90.9 | 98.5 NM_017919.1 |
| 114.8 | 108.7 | 100.2 | 101.7 NM_016930.2 |
| 116.7 | 113.6 | 104.5 | 105.8 NM_001001850.1 |
| 140.1 | 125.1 | 119.6 | 125 NM_004603.1 |
| 91.4 | 85.4 | 81.7 | 85.3 NM_052874.1 |
| 305.6 | 377.1 | 344.5 | 248.5 NM_001980.2 |
| 252.1 | 249.5 | 278.8 | 296.2 NM_001980.2 |
| 357.5 | 372.9 | 319.2 | 283 NM_004177.3 |
| 795.4 | 653.5 | 672.6 | 431.5 NM_004604.3 |
| 1332 | 1058.8 | 1161.7 | 573.6 NM_003164.2 |
| 104.9 | 108.6 | 90.9 | 93.6 XM_938340.1 |
| 432.1 | 428.8 | 367.4 | 359 NM_003164.2 |
| 559.8 | 544.5 | 483.6 | 513.4 NM_005819.4 |
| 92 | 84 | 91.4 | 94.8 NM_003569.1 |
| 244 | 224.1 | 197.6 | 179.2 NM_004853.1 |
| 92.8 | 92.5 | 89.8 | 93.9 NM_003165.1 |
| 134.9 | 124.5 | 135.5 | 127.8 NM_001032221.1 |
| 104.2 | 88.7 | 97.1 | 90.7 NM_003165.1 |
| 1547.9 | 1030.2 | 789.3 | 771.3 NM_006949.1 |
| 956.1 | 507.3 | 433.6 | 514.5 NM_007269.1 |
| 545.1 | 932.1 | 776 | 738.2 NM_139244.2 |
| 121.9 | 99.6 | 93.4 | 110.5 NM_014178.6 |
| 85.8 | 94.5 | 90.9 | 87 NM_018423.1 |
| 93.3 | 83.9 | 78.1 | 88.7 NM_145251.2 |
| 888.8 | 926.2 | 713.5 | 667.5 NM_016086.2 |
| 608.8 | 376.2 | 385 | 366.2 NM_006713.2 |
| 727 | 636.9 | 483.8 | 556 NM_003850.1 |
| 1190 | 1093.5 | 944 | 698.1 NM_003849.1 |
| 436 | 434.5 | 315 | 289.6 NM_003848.1 |
| 101.1 | 86.9 | 92 | 77.6 NM_022491.2 |
| 84.3 | 89 | 80.5 | 84 NM_016169.2 |
| 477.8 | 304.2 | 264.1 | 253.8 NM_006704.2 |
| 104.7 | 96 | 96.1 | 98.7 NM_080740.3 |
| 128.8 | 103.1 | 91.8 | 102.8 NM_080764.2 |
| 304.1 | 293.8 | 281.2 | 244.2 NM_017666.2 |
| 171.1 | 131.9 | 126.8 | 136.8 NM_001002844.1 |
| 146.1 | 128 | 123.7 | 126.8 NM_001002844.1 |
| 113.2 | 106.7 | 105.1 | 101.8 NM_001002843.1 |
| 87.5 | 86.7 | 83.1 | 84.7 NM_015170.1 |
| 193.2 | 235.5 | 270.7 | 193.6 NM_018837.2 |
| 87.2 | 101.9 | 108.1 | 103.7 NM_018837.2 |
| 109.1 | 109.2 | 96.1 | 105.3 NM_177534.1 |
| 88.3 | 105.5 | 106.4 | 106.5 NM_177536.1 |

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| 1587.9 | 2736.8 | 3661.8 | 2272.1 | NM_177530.1 |
| 84.1 | 89.1 | 83.3 | 94.8 | NM_177534.1 |
| 89.1 | 96.2 | 84 | 97.2 | NM_177528.1 |
| 150.3 | 240.7 | 218.1 | 206.7 | NM_001054.2 |
| 106.5 | 114.6 | 98.7 | 100.8 | NM_003166.3 |
| 388.9 | 375 | 365.3 | 327.6 | NM_001017391.1 |
| 95.9 | 90.2 | 82.7 | 86.6 | NM_001056.3 |
| 82.1 | 80.4 | 86.3 | 83.8 | NM_001056.3 |
| 89.4 | 79.3 | 81.1 | 92.1 | NM_006588.2 |
| 86.2 | 87 | 81 | 86.2 | NM_001008743.1 |
| 75.3 | 85.8 | 77.9 | 81.6 | NM_005420.2 |
| 104.7 | 88.7 | 97.5 | 94.9 | NM_003167.2 |
| 114.8 | 98.3 | 89.4 | 90.4 | NM_004605.2 |
| 202.2 | 160.7 | 171 | 139.9 | NM_177973.1 |
| 94.8 | 89.5 | 90.3 | 93.6 | NM_004605.2 |
| 89.2 | 87 | 79.9 | 78.8 | NM_176874.1 |
| 106.2 | 113.4 | 103.5 | 96.2 | NM_001032377.1 |
| 224.9 | 215.9 | 225.1 | 162.2 | NM_182760.2 |
| 286.6 | 146.7 | 167.7 | 157 | NM_015411.1 |
| 3690 | 2952 | 2790.5 | 1868 | NM_001042470.1 |
| 89 | 88.3 | 89.3 | 99.7 | NM_003352.4 |
| 91.9 | 93 | 81.4 | 91.7 | NM_003352.4 |
| 89.8 | 87.6 | 73.6 | 74.4 | NR_002189.2 |
| 87.5 | 71.1 | 78.7 | 81.2 | NR_002190.1 |
| 538 | 436.9 | 372.2 | 297.8 | NM_001005849.1 |
| 3879.1 | 3200.4 | 3245.8 | 2165.7 | NM_001005849.1 |
| 9014.7 | 6330.3 | 6052.7 | 3805.4 | NM_006936.2 |
| 102.6 | 100.8 | 86.7 | 90.3 | NM_001002255.1 |
| 112.6 | 111.4 | 112.8 | 101.8 | NM_001030019.1 |
| 86.5 | 83.7 | 85.4 | 82.8 | NM_152782.3 |
| 402.5 | 419.1 | 424.3 | 271.1 | NM_001032386.1 |
| 84.6 | 81.2 | 82.5 | 89.2 | NM_000456.2 |
| 152.1 | 164.2 | 148.7 | 140.7 | NM_001032386.1 |
| 2450.1 | 2247.9 | 1470.4 | 1353.7 | NM_007192.2 |
| 137.9 | 113.9 | 114.7 | 120.2 | NM_181356.1 |
| 130.2 | 103.1 | 135.5 | 114.8 | NM_003599.1 |
| 745.5 | 769.9 | 595.2 | 499.7 | NM_003168.1 |
| 578.1 | 531.4 | 477.5 | 480 | NM_003169.2 |
| 149.2 | 152.8 | 144.5 | 161 | NM_003170.3 |
| 120.6 | 101.7 | 102.3 | 104.7 | NM_014860.1 |
| 299.4 | 220.1 | 210.3 | 168.9 | NM_003171.2 |
| 97.5 | 102.9 | 101.7 | 106.9 | NM_004264.2 |
| 399.9 | 419.2 | 391.4 | 323.9 | NM_003172.2 |
| 109.7 | 119.3 | 105.6 | 107.7 | NM_017503.2 |
| 1292.3 | 889 | 729.4 | 593.5 | NM_033161.2 |
| 134.2 | 104.3 | 112.8 | 104.1 | NM_181491.1 |
| 511.5 | 374 | 426.3 | 216 | NM_006752.4 |
| 1085.8 | 773.8 | 700.8 | 484.8 | NM_006753.3 |
| 581.4 | 621.9 | 518.9 | 564.7 | NM_022486.3 |
| 96.5 | 83.8 | 89 | 86.4 | NM_019601.3 |

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| 410.3 | 306.4 | 322.1 | 204.1 NM_145006.2 |
| 83.1 | 80.4 | 87.4 | 84.9 NM_001037175.1 |
| 88.9 | 76.6 | 76.2 | 84.8 NM_001037175.1 |
| 1714.8 | 1038 | 1043.1 | 517.5 NM_003173.1 |
| 119.1 | 149.4 | 134.1 | 115.2 NM_024670.3 |
| 101.4 | 94.3 | 107.1 | 108.7 NM_017635.3 |
| 202.7 | 190.4 | 147.7 | 134.1 NM_017635.3 |
| 184.5 | 130.1 | 115.2 | 116.1 NM_016028.4 |
| 92.7 | 99 | 89.3 | 78.6 NM_032701.2 |
| 5468.6 | 5875.1 | 5429.8 | 4528.9 NM_015355.1 |
| 113.8 | 103.9 | 96.7 | 95.2 NM_014849.2 |
| 92.5 | 91.9 | 86.1 | 87.9 NM_014848.2 |
| 92.7 | 82.4 | 82.3 | 90.2 NM_014979.1 |
| 134.2 | 103.5 | 99.2 | 103.1 NM_153366.2 |
| 99.9 | 96 | 96.1 | 88.6 NM_021738.1 |
| 103.6 | 107.7 | 95.5 | 94.9 NM_003174.2 |
| 290.4 | 249 | 224.9 | 229.4 NM_003174.2 |
| 98.8 | 82.1 | 83.3 | 91.2 NM_018711.2 |
| 874 | 933.3 | 754.4 | 701.6 NM_015055.1 |
| 135.4 | 175.2 | 190.2 | 143 NM_032796.2 |
| 1716.1 | 1943 | 1706.8 | 1619.5 NM_005638.3 |
| 102.7 | 98.1 | 110.2 | 103 NM_201564.1 |
| 82.6 | 82.5 | 76.5 | 89.4 NM_130784.1 |
| 81.5 | 84.5 | 88.2 | 77.3 XM_942505.1 |
| 94.1 | 93.1 | 84 | 88.8 NM_003176.2 |
| 94.8 | 96.7 | 101.3 | 90.4 NM_014258.2 |
| 95.7 | 94.9 | 90.1 | 99.3 NM_153694.3 |
| 89.8 | 89.6 | 85.3 | 89.9 NM_033025.4 |
| 472.1 | 547.1 | 624.6 | 406.9 NM_207170.1 |
| 77.5 | 82.8 | 79.9 | 87.6 NM_015484.4 |
| 1431.5 | 1819.9 | 1996.7 | 1342.3 NM_015484.4 |
| 2207.7 | 2120.4 | 1796.3 | 1432 NM_003177.3 |
| 187.8 | 149.4 | 144.9 | 130.5 NM_004819.1 |
| 85.7 | 86.2 | 81.4 | 90.1 NM_006950.2 |
| 100.4 | 95.4 | 83.2 | 94.5 NM_006950.2 |
| 86.9 | 78.1 | 77.1 | 83.2 NM_133499.1 |
| 99.5 | 98 | 85.6 | 90.3 NM_003178.3 |
| 114.1 | 98.1 | 71.9 | 86.2 NM_133625.2 |
| 97.3 | 85.8 | 86.8 | 90.9 NM_003490.2 |
| 85.6 | 85.2 | 87.6 | 82.6 NM_133633.1 |
| 127.8 | 98.1 | 97.2 | 100.9 NM_030786.1 |
| 2995.4 | 1813.2 | 1745.6 | 1188.6 NM_006372.3 |
| 75.4 | 78.1 | 82.7 | 95.4 NM_133650.1 |
| 82 | 96.6 | 79.5 | 84.7 NM_015293.1 |
| 102.2 | 99.7 | 95 | 96.1 NM_182961.1 |
| 90.3 | 86.6 | 86.9 | 79 NM_033071.1 |
| 80.8 | 86.3 | 84.4 | 86.4 NM_015180.3 |
| 92.2 | 92.3 | 75.2 | 91.9 NM_015180.4 |
| 98.8 | 99.1 | 101.3 | 98 NM_182910.1 |
| 84.4 | 97.5 | 81.5 | 99.3 NM_182913.1 |

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| 87.8 | 85.3 | 81.4 | 86 NM_006772.1 |
| 178.7 | 152 | 146.8 | 132.1 NM_145738.1 |
| 91.6 | 85.2 | 81.2 | 90.4 NM_145738.1 |
| 93.9 | 101.4 | 102.2 | 98.5 NM_004711.3 |
| 194.8 | 180.9 | 156.7 | 154.3 NM_145731.2 |
| 91.1 | 92 | 87.2 | 91.1 NM_004710.3 |
| 103.7 | 98.6 | 91.1 | 96.2 NM_004209.4 |
| 117.2 | 98.7 | 104.7 | 99.8 NM_012451.2 |
| 168.7 | 155.7 | 144.4 | 171.5 NM_203446.1 |
| 100.9 | 99.5 | 93.4 | 90.2 NM_003895.2 |
| 81.9 | 94.4 | 83.2 | 80 NM_203446.1 |
| 223.3 | 252.4 | 226.6 | 233.4 NM_003898.2 |
| 234.9 | 259.8 | 270.4 | 197.9 NM_018373.1 |
| 89.4 | 85.7 | 83.4 | 87.9 NM_007286.3 |
| 99.8 | 104.2 | 91 | 95.6 NM_133477.1 |
| 92.6 | 87.8 | 93 | 88.6 NM_133477.1 |
| 89 | 86.2 | 89.1 | 89.5 NM_024875.2 |
| 83.2 | 85 | 81.8 | 80 NM_144642.3 |
| 86.8 | 86.1 | 81.9 | 81.5 NM_003179.2 |
| 2971.8 | 2378.2 | 2181.6 | 1910.4 NM_182715.1 |
| 291.4 | 201.9 | 189.7 | 189.8 NM_182715.1 |
| 95.9 | 87.5 | 85.5 | 89.9 NM_006754.2 |
| 74 | 83.3 | 78.6 | 85.2 NM_001006603.1 |
| 96.8 | 91.9 | 96.7 | 96.2 NM_005639.1 |
| 74.6 | 79.5 | 69.2 | 78.5 NM_198992.1 |
| 146 | 120.4 | 129.9 | 107.9 NM_152280.2 |
| 97.7 | 97.6 | 92.4 | 89.7 NM_177963.2 |
| 98 | 91.6 | 83.3 | 83.4 NM_020826.1 |
| 90.1 | 84.1 | 90 | 95.7 NM_153262.1 |
| 192.6 | 120.6 | 122.4 | 110.8 NM_181519.2 |
| 99.9 | 93.2 | 100 | 92.6 NM_031912.3 |
| 96 | 95.5 | 81.6 | 89.3 NM_031914.1 |
| 99.7 | 91.5 | 99.7 | 91.8 NM_016524.2 |
| 80.5 | 73.4 | 74.8 | 78.6 NM_177402.3 |
| 115.3 | 102.1 | 116.5 | 95.3 NM_032298.1 |
| 86.9 | 90 | 82.3 | 83.4 NM_020783.2 |
| 95.2 | 92.5 | 84.2 | 91.3 NM_003180.1 |
| 100.4 | 96.5 | 91.3 | 91.8 NM_205848.1 |
| 86.2 | 84.4 | 81.5 | 81.6 NM_004200.2 |
| 98.2 | 94.4 | 96.2 | 87.7 NM_004200.2 |
| 93.5 | 92.4 | 93.5 | 91.8 NM_138567.2 |
| 100.4 | 89.7 | 87.3 | 87.2 NM_175733.2 |
| 118.7 | 120.6 | 106.2 | 131.1 NM_032872.1 |
| 82.7 | 89.1 | 76.8 | 81.5 NM_032943.2 |
| 85.7 | 91.8 | 78.8 | 93 NM_206930.1 |
| 96.4 | 95.2 | 85.4 | 91.8 NM_032379.3 |
| 121.2 | 117.1 | 116.9 | 112.1 NM_206929.1 |
| 120.4 | 110.7 | 96.7 | 107.6 NM_001009991.1 |
| 165.6 | 181.6 | 176.7 | 147.5 NM_080737.1 |
| 88.8 | 92.5 | 86.2 | 88.2 NM_138780.1 |

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| 460.9 | 367.6 | 414.9 | 228.8 NM_032431.2 |
| 99.1 | 100.1 | 94 | 89.7 NM_172230.2 |
| 94.2 | 80.2 | 79.7 | 82 NM_003181.2 |
| 89.5 | 77.5 | 86.1 | 82.7 NM_181429.1 |
| 96.6 | 92.1 | 92.4 | 95.8 NM_138327.1 |
| 111.9 | 94 | 88.8 | 97.8 NM_014626.3 |
| 95.5 | 94.3 | 81.8 | 91.9 NM_003967.1 |
| 101.3 | 99 | 91.9 | 83.7 NM_053278.1 |
| 97.4 | 89.8 | 90.6 | 86.4 NM_175057.2 |
| 95.1 | 95.5 | 94.9 | 96.8 NM_198312.1 |
| 100.5 | 101.6 | 103.2 | 103.6 NM_152787.2 |
| 76.5 | 77.1 | 85.1 | 79.2 NM_013996.1 |
| 84.9 | 87.8 | 83.8 | 72.9 NM_013251.2 |
| 110.4 | 98.5 | 97.4 | 96.6 NM_001006667.1 |
| 92.1 | 81.4 | 77 | 75.2 NM_001006667.1 |
| 86.4 | 92.4 | 88.5 | 96.5 NM_170685.1 |
| 88.9 | 97.2 | 83.8 | 93.6 NM_001077504.1 |
| 4237.1 | 2729.8 | 2478.1 | 1688.6 NM_006283.1 |
| 201.7 | 139.7 | 116.5 | 121.8 NM_006997.2 |
| 91.7 | 80.5 | 77.7 | 93.2 NM_206862.1 |
| 109.8 | 98.7 | 94.6 | 84.7 NM_206861.1 |
| 380.1 | 243.4 | 196.6 | 196.1 NM_006342.1 |
| 76.8 | 82.8 | 76.2 | 77.4 NM_001058.2 |
| 85.8 | 84.7 | 78.6 | 87.9 NM_015727.1 |
| 98.1 | 103.3 | 97.4 | 89.4 NM_015727.1 |
| 81.5 | 87.1 | 88.9 | 86.7 NM_001057.1 |
| 113.2 | 105.8 | 100.1 | 96.4 NM_001059.1 |
| 86.2 | 102.7 | 81.9 | 91.5 NM_002354.1 |
| 94.6 | 86.7 | 91.7 | 102.8 NM_002353.1 |
| 289.6 | 230.6 | 208 | 227.8 NM_053053.2 |
| 94.2 | 93.6 | 87.8 | 87 NM_133439.2 |
| 132.5 | 115.7 | 113.2 | 112 NM_001488.3 |
| 94.2 | 96.7 | 96.3 | 95.7 NM_133439.2 |
| 246.5 | 241.8 | 207.3 | 153.8 NM_006354.2 |
| 283.5 | 279.9 | 289 | 273.1 NM_006354.2 |
| 90.8 | 83 | 84.4 | 84.6 NM_133480.1 |
| 121.9 | 151.3 | 128.4 | 136.7 NM_138923.1 |
| 105.6 | 98.5 | 107.3 | 106.7 NM_004606.2 |
| 1206.8 | 983.9 | 870.9 | 640.8 NM_006284.2 |
| 94.8 | 90.9 | 78.9 | 90.7 NM_005643.2 |
| 128.5 | 121.6 | 99.3 | 110.9 NM_005645.3 |
| 3481.7 | 4632.4 | 4487.9 | 2598.1 NM_003487.2 |
| 224.4 | 279.3 | 296.7 | 241.6 NM_003487.2 |
| 116.9 | 111 | 96.6 | 93.2 NM_005681.2 |
| 96 | 74.6 | 74.3 | 79.9 NM_005681.2 |
| 239.7 | 216.3 | 184.4 | 167.7 NM_005680.1 |
| 83.6 | 97.1 | 82.2 | 91.4 NM_005679.2 |
| 172.1 | 179.5 | 156.1 | 117.2 NM_139353.1 |
| 1707.1 | 1347.4 | 1338.4 | 858.1 NM_139353.1 |
| 174.6 | 266.1 | 233.3 | 202.7 NM_153809.1 |

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| 741.8 | 721 | 521.3 | 515 NM_003184.2 |
| 886.8 | 844 | 815.6 | 574.1 NM_003185.2 |
| 427.2 | 270.3 | 201.2 | 253.3 NM_006951.3 |
| 132.6 | 111.4 | 96.5 | 111.2 NM_001025247.1 |
| 214 | 401.6 | 279.6 | 312.6 NM_014409.3 |
| 163 | 137 | 112.3 | 120.6 NM_005641.2 |
| 97 | 81.5 | 88.7 | 89 NM_139122.1 |
| 404.2 | 350.6 | 351.2 | 229.2 NM_006473.2 |
| 334.5 | 319.8 | 230.2 | 332.6 NM_005642.2 |
| 84.9 | 87.8 | 83.7 | 87.4 NM_024885.2 |
| 170.8 | 162.5 | 125 | 135 NM_016283.4 |
| 161.4 | 122.5 | 148.5 | 138.9 NM_016283.4 |
| 87.2 | 84.5 | 75.8 | 84.4 NM_015975.4 |
| 121.9 | 123.3 | 118.5 | 118.5 NM_138810.2 |
| 122.6 | 125.8 | 122.3 | 108.3 NM_054114.3 |
| 114.5 | 118.6 | 104.4 | 118.6 NM_138810.2 |
| 156 | 176.8 | 190.6 | 146.6 NM_003186.3 |
| 87.7 | 90.4 | 89.1 | 84.7 NM_003186.3 |
| 84.2 | 86.5 | 83.2 | 86 NM_001001522.1 |
| 5339.4 | 2882.6 | 2296.9 | 2611.4 NM_003564.1 |
| 94.8 | 99.6 | 86.5 | 92.1 NM_001008273.1 |
| 96.9 | 88.6 | 85.6 | 89.2 NM_001008273.1 |
| 95.4 | 85.2 | 95.7 | 87.5 NM_003189.1 |
| 88.4 | 91.7 | 84.7 | 78.8 NM_005421.1 |
| 11372.8 | 10710.5 | 8358.8 | 6741.4 NM_006755.1 |
| 144.6 | 180.4 | 161.9 | 192.1 NM_033394.1 |
| 127.2 | 107.9 | 97.4 | 106 NM_139239.1 |
| 99.5 | 99.8 | 88 | 99.6 NM_004180.2 |
| 92.6 | 81.8 | 84.4 | 80.8 NM_133484.1 |
| 180.4 | 322.6 | 245 | 284.9 NM_020791.1 |
| 175.1 | 183.8 | 167.8 | 157.8 NM_016151.2 |
| 94.6 | 85.7 | 88.4 | 100.2 NM_004783.2 |
| 87.7 | 81.4 | 71.7 | 80.9 NM_004783.2 |
| 86.1 | 83.9 | 81 | 82.8 NM_016281.2 |
| 1153.9 | 1324.7 | 1335.8 | 906.4 NM_000593.5 |
| 227.6 | 228.4 | 211.5 | 191 NM_018833.2 |
| 460.3 | 391.2 | 315.1 | 366.3 NM_000544.3 |
| 1461.3 | 2445.5 | 2333.3 | 2147.2 NM_003190.3 |
| 133.4 | 117.6 | 119.3 | 152.9 NM_172208.1 |
| 221.9 | 196.9 | 186.3 | 172.5 NM_172209.1 |
| 128.9 | 137.2 | 128.5 | 119.7 NM_018009.3 |
| 255.8 | 197.9 | 179.1 | 176.8 NM_139283.1 |
| 357.5 | 650.9 | 610.8 | 469.1 NM_005646.2 |
| 227.3 | 200.1 | 188.2 | 153.1 NM_134324.2 |
| 222.4 | 210.9 | 217.7 | 145.3 NM_134323.1 |
| 131.1 | 121.5 | 122.4 | 121.1 NM_007375.3 |
| 214 | 229.3 | 151.3 | 154.1 NM_001003799.1 |
| 910.4 | 1050 | 895.1 | 952.5 NM_152295.3 |
| 134.7 | 127.5 | 115.1 | 105.1 NM_025150.3 |
| 76.6 | 88.3 | 79.1 | 87.8 NM_177539.1 |

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| 92.1 | 88.8 | 88.1 | 80.3 NM_138697.2 |
| 102.4 | 87.2 | 88.9 | 104.2 NM_152232.1 |
| 88 | 82.8 | 81.7 | 80.5 NM_152228.1 |
| 95.3 | 93.5 | 87.7 | 91 NM_019599.2 |
| 94.1 | 95.4 | 98.7 | 108.6 NM_023921.1 |
| 83.1 | 75.7 | 78.9 | 84 NM_023920.2 |
| 94.1 | 88.1 | 83 | 94.5 NM_023922.1 |
| 88.4 | 98.7 | 86.2 | 96.6 NM_016945.2 |
| 94.3 | 97.8 | 84.8 | 91.6 NM_016943.2 |
| 86.6 | 93 | 94 | 85.8 NM_176817.1 |
| 93.1 | 89 | 79.6 | 85.7 NM_176881.1 |
| 88.1 | 85.1 | 90.7 | 88.9 NM_016944.1 |
| 78 | 79.1 | 71.6 | 80.1 NM_176882.1 |
| 97.8 | 99.9 | 103.4 | 100.1 NM_176884.1 |
| 92.5 | 96.6 | 87.7 | 89.1 NM_176885.1 |
| 93 | 86.2 | 93.7 | 106.6 NM_176886.1 |
| 102.5 | 87.1 | 79.8 | 100.3 NM_176887.1 |
| 94.2 | 89.3 | 90.4 | 88.8 NM_176888.1 |
| 90.9 | 96.4 | 94.1 | 95.2 NM_176889.1 |
| 92.1 | 88 | 90.1 | 85.4 NM_018980.2 |
| 79.4 | 78.7 | 67.3 | 83.9 NM_176890.1 |
| 98.1 | 96.4 | 85.7 | 86.7 NM_177437.1 |
| 89.8 | 81.9 | 83.9 | 90.1 NM_023919.2 |
| 89.5 | 92.9 | 82.3 | 80.1 NM_023918.1 |
| 92.6 | 93.8 | 91.4 | 93.4 NM_023917.2 |
| 146.5 | 129.5 | 135.3 | 119.5 NM_017714.1 |
| 82.1 | 84.3 | 86.4 | 89 NM_000353.1 |
| 325.4 | 226.7 | 197.8 | 238.1 NM_032026.1 |
| 263.2 | 251.7 | 212.8 | 190.4 NM_014760.2 |
| 411.7 | 299.3 | 339.3 | 239.2 NM_001042552.1 |
| 467.1 | 370.7 | 306.4 | 320.4 XM_931843.1 |
| 1692.4 | 3440.2 | 2695.2 | 2420.3 NM_001079864.1 |
| 2414.3 | 4222.7 | 3888.7 | 2880.5 NM_006024.4 |
| 460.6 | 381 | 343.5 | 203.8 NM_014604.2 |
| 206.1 | 202.4 | 233.5 | 194.6 NM_181312.1 |
| 101.9 | 105.3 | 95.9 | 108 NM_181314.1 |
| 182.9 | 202.9 | 194.9 | 189.5 NM_181313.1 |
| 84.9 | 82.1 | 87.3 | 79.2 NM_015173.2 |
| 106.5 | 107.3 | 86.5 | 85.5 NM_031937.1 |
| 141.7 | 113.9 | 110.3 | 116.8 NM_015527.2 |
| 118.2 | 165.4 | 164.9 | 163.5 NM_198517.2 |
| 510.6 | 383.9 | 375.7 | 244.1 NM_018201.2 |
| 975.4 | 1041.1 | 987.1 | 807.6 NM_020773.1 |
| 514.2 | 647.8 | 425.4 | 529.9 NM_022771.3 |
| 230.8 | 287.3 | 251.8 | 191.8 NM_019020.2 |
| 109.7 | 110 | 121.4 | 103.1 NM_024682.1 |
| 119.1 | 104.7 | 104.2 | 93.2 NM_018317.1 |
| 129.5 | 139.4 | 147.6 | 109.2 NM_018421.2 |
| 322.9 | 387.7 | 325.9 | 303.3 NM_144628.2 |
| 82.6 | 90.2 | 83.5 | 81.9 NM_153356.1 |

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| 98.7 | 90.5 | 88.8 | 87 NM_014346.1 |
| 253.8 | 250.4 | 231.9 | 224.8 NM_017772.2 |
| 165.2 | 198.7 | 172.4 | 178.7 NM_018309.1 |
| 150.6 | 134.4 | 139 | 114.1 NM_020705.1 |
| 369.5 | 437.2 | 431.8 | 358.4 NM_015079.2 |
| 88.3 | 82.3 | 84.7 | 78.5 NM_032258.1 |
| 128.7 | 128.2 | 145.9 | 115.2 NM_001001417.4 |
| 79.5 | 83.4 | 82.9 | 79.1 NM_001001418.3 |
| 105 | 121.7 | 134.2 | 100.1 NM_001040282.1 |
| 95.9 | 90.9 | 86.8 | 99.6 NM_014832.1 |
| 122.5 | 127.2 | 148.7 | 126.7 NM_014744.1 |
| 247.8 | 195.9 | 195.5 | 165.6 NM_016495.2 |
| 93.3 | 93.1 | 91.4 | 91.4 NM_017752.2 |
| 147.5 | 133.6 | 118.7 | 119.8 NM_015130.1 |
| 256.3 | 342.4 | 277.1 | 251.8 NM_015043.3 |
| 178.6 | 301.3 | 192.9 | 196.8 NM_015043.3 |
| 12155.5 | 12356.2 | 10075.5 | 8272.9 NM_004607.1 |
| 455.4 | 286.3 | 266.9 | 254.3 NM_003192.1 |
| 102.3 | 106.9 | 101.9 | 96.2 NM_018138.1 |
| 97.5 | 98.7 | 88.3 | 85.4 NM_005993.3 |
| 427.9 | 418.4 | 388.7 | 363.1 NM_005993.3 |
| 1995.9 | 1588.9 | 1724.6 | 1194.6 NM_003193.2 |
| 291.7 | 276 | 273.8 | 292.9 NM_003193.2 |
| 741.1 | 721.5 | 642.6 | 539.3 NM_013254.2 |
| 92.7 | 96.4 | 87.2 | 92.6 NM_014726.1 |
| 416.1 | 598.8 | 530.1 | 297.6 NM_005647.2 |
| 126.1 | 124.6 | 111.2 | 107.9 NM_024665.3 |
| 96.3 | 93.2 | 91.9 | 89.8 NM_134259.1 |
| 91.8 | 98.3 | 88.8 | 83.3 NM_033284.1 |
| 268.9 | 234.8 | 179.1 | 187.9 NM_032988.1 |
| 160.5 | 120.5 | 107.5 | 111.1 NM_006453.2 |
| 89.2 | 86.7 | 78.3 | 75.4 NM_138572.2 |
| 970.7 | 800.3 | 768 | 606.9 NM_003194.3 |
| 98.4 | 90.7 | 84.1 | 83.9 NM_013290.3 |
| 765.7 | 532.6 | 480.6 | 436.2 NM_004865.2 |
| 97.3 | 90.3 | 83.7 | 96.6 NM_199047.1 |
| 81.9 | 89.6 | 80.9 | 82.8 NM_006593.2 |
| 101.5 | 93.5 | 96.9 | 90.5 NM_032811.1 |
| 415.4 | 324.2 | 340.6 | 245.3 NM_030900.2 |
| 788.6 | 567.4 | 529.5 | 443.9 NM_199122.1 |
| 133.1 | 120.7 | 110.1 | 99.9 NM_004749.2 |
| 99.6 | 81.9 | 76.9 | 92.6 NM_080647.1 |
| 86.1 | 91.4 | 85.2 | 90.8 NM_005992.1 |
| 109.3 | 110.6 | 105.2 | 98.2 NM_005992.1 |
| 105.4 | 104.4 | 98.7 | 102.6 NM_080646.1 |
| 103.6 | 103.5 | 89.1 | 95.4 NM_005995.2 |
| 111.8 | 146.7 | 114.9 | 115.6 NM_152380.2 |
| 178.7 | 153.4 | 142.7 | 119.5 XM_943618.1 |
| 179.7 | 193 | 164.6 | 203.7 NM_001080508.1 |
| 151.2 | 139.5 | 134.3 | 129.2 NM_005149.1 |

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| 121.1 | 117 | 91.3 | 105 NM_005994.3 |
| 84 | 82.6 | 77.8 | 88.3 NM_001077653.1 |
| 88.3 | 93.9 | 93.1 | 100.4 NM_020417.1 |
| 79.9 | 85.5 | 77.8 | 74.2 NM_013351.1 |
| 98.9 | 96.6 | 82.3 | 91.8 NM_016954.2 |
| 97.9 | 94 | 85.6 | 91.1 NM_016569.3 |
| 117.3 | 111.8 | 107 | 109.3 NM_016569.3 |
| 96.4 | 94.3 | 85.7 | 87.9 NM_018488.2 |
| 93.6 | 81.4 | 77 | 80.3 NM_181486.1 |
| 89.1 | 85.9 | 85.4 | 86.3 NM_080718.1 |
| 84.2 | 78.1 | 72.4 | 90.7 NM_000192.3 |
| 90.6 | 104.2 | 91.7 | 99.2 NM_080758.1 |
| 90.9 | 88.2 | 83.9 | 94.9 NM_004608.2 |
| 97.5 | 90.1 | 93.4 | 94.2 NM_080758.1 |
| 84.7 | 86.7 | 87.7 | 96.7 NM_201636.1 |
| 78.1 | 83.1 | 76.5 | 81.7 NM_001060.3 |
| 82.9 | 76.8 | 75.2 | 87.1 NM_001060.3 |
| 172.7 | 385.8 | 310.3 | 271.5 NM_001061.2 |
| 86.7 | 86.3 | 83.1 | 88.5 NM_003673.2 |
| 88.4 | 87.9 | 76 | 103.6 NM_153355.2 |
| 1857.2 | 1090.5 | 850.5 | 849 NM_201437.1 |
| 155 | 124.9 | 114.3 | 133.1 NM_006756.2 |
| 181.6 | 150 | 151.2 | 171.2 XM_943119.1 |
| 352.4 | 306.2 | 328.6 | 230.8 NM_003195.4 |
| 143 | 106.8 | 116.4 | 108.5 NM_003195.4 |
| 85.3 | 87.8 | 74.2 | 87.8 NM_198723.1 |
| 82.9 | 123.4 | 109.9 | 115.5 NM_003196.1 |
| 180.9 | 179.1 | 193.8 | 188.6 NM_001006639.1 |
| 125.9 | 130.4 | 110.9 | 106 NM_001006640.1 |
| 170.2 | 121 | 110.8 | 100.8 NM_080390.3 |
| 1499.6 | 1019 | 1066.4 | 587.2 NM_001006933.1 |
| 3150.2 | 2503.3 | 2310.3 | 1348 NM_001006933.1 |
| 103.5 | 91.8 | 92.2 | 88.7 NM_024863.4 |
| 265.7 | 250.9 | 212.8 | 186.1 NM_001006936.1 |
| 2907.9 | 2617.4 | 2610.4 | 1817.9 NM_001006937.1 |
| 83.3 | 94.6 | 88.5 | 82.6 NM_001012979.1 |
| 87.9 | 94.8 | 85.9 | 78.7 NM_001006938.1 |
| 90 | 94.2 | 80.4 | 91 NM_152278.1 |
| 624.5 | 548.2 | 431.1 | 421.7 NM_001006684.1 |
| 411.7 | 300.7 | 252.1 | 235 NM_153333.2 |
| 616.7 | 395.4 | 429.7 | 371.1 NM_153333.2 |
| 4686.1 | 2424 | 2253.1 | 2086.5 NM_005648.2 |
| 250 | 192.8 | 190.1 | 154.2 NM_007108.2 |
| 6509.2 | 4167.8 | 4178.2 | 2917.2 NM_007108.2 |
| 350.4 | 346.9 | 287 | 201.9 NM_003198.1 |
| 87.1 | 79.8 | 85.1 | 80.8 NM_016427.2 |
| 88.6 | 85.4 | 75.9 | 86.5 NM_145653.2 |
| 459.6 | 455.9 | 404.5 | 326.6 NM_006706.2 |
| 86.6 | 103.4 | 94.1 | 93.7 NM_006706.2 |
| 305.5 | 257.1 | 294.6 | 224.4 NM_006706.2 |

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| 79 | 76.4 | 81 | 77.5 NM_174937.1 |
| 97.6 | 87.3 | 83.7 | 83.2 NM_000545.3 |
| 711 | 866.8 | 777.1 | 794.5 NM_207037.1 |
| 105.6 | 120 | 102.5 | 93.4 NM_207040.1 |
| 115.3 | 106.1 | 110.7 | 95.5 NM_004609.3 |
| 88.8 | 88 | 81.5 | 84.2 NM_001077511.1 |
| 101.3 | 97 | 98.9 | 83.2 NM_007109.2 |
| 84.4 | 85.1 | 78.1 | 86.7 NM_000458.1 |
| 101.7 | 93.3 | 92.8 | 98.3 NM_000458.1 |
| 86 | 82.9 | 75.7 | 87.2 NM_006481.1 |
| 153.6 | 144.1 | 162.7 | 131.1 XM_935478.1 |
| 95.3 | 88.7 | 88.6 | 92.9 NM_005650.1 |
| 385.3 | 647 | 589 | 458.6 NM_181492.1 |
| 89.9 | 86.6 | 90 | 81 NM_198392.1 |
| 90 | 90.2 | 82.6 | 82 NM_003206.2 |
| 94.4 | 86.1 | 82.4 | 88.6 NM_003206.2 |
| 96.3 | 95.4 | 91.5 | 92.1 NM_175769.1 |
| 354.3 | 271 | 237.7 | 275.8 NM_003200.1 |
| 103.8 | 108.4 | 114.4 | 108.8 NM_003199.1 |
| 90 | 98.8 | 98.8 | 94.3 NM_201632.1 |
| 87.6 | 92.5 | 89.7 | 90.4 NM_201633.1 |
| 84.3 | 91.8 | 87 | 82.3 NM_213648.1 |
| 79.6 | 84.4 | 76.8 | 86.5 NM_201633.1 |
| 86.5 | 91.9 | 80.8 | 93.6 NM_003202.2 |
| 78.1 | 77.8 | 74.5 | 84.8 NM_201634.1 |
| 97.3 | 87.4 | 94.4 | 94.7 NM_031283.1 |
| 85.9 | 82.5 | 86.3 | 89.9 NM_030756.1 |
| 95.7 | 91.7 | 95.7 | 92.6 NM_030751.2 |
| 723.3 | 791.2 | 643.8 | 836.3 NM_006602.2 |
| 89.1 | 76.6 | 83.1 | 81.8 NM_001008536.1 |
| 173.8 | 130.9 | 145.9 | 139.3 NM_032300.2 |
| 705.8 | 777 | 695.9 | 602.1 NM_006053.2 |
| 103.4 | 100 | 108.9 | 101.9 NM_006053.2 |
| 131.5 | 168.2 | 136 | 147.7 NM_006019.2 |
| 83.8 | 79.4 | 79.6 | 89.5 NM_021966.1 |
| 77.5 | 93 | 84.6 | 86.6 NM_004918.2 |
| 85.8 | 87.7 | 83.9 | 91.3 NM_199206.1 |
| 81.8 | 87.1 | 85.3 | 86.2 NM_020554.3 |
| 101.1 | 86.2 | 85.3 | 84.5 NM_012468.3 |
| 91.8 | 89 | 95.9 | 104.3 NM_020553.2 |
| 132.1 | 177.5 | 144.3 | 135.1 NM_001062.2 |
| 96.1 | 95 | 88.8 | 100.7 NM_000355.2 |
| 90.8 | 93 | 92 | 93.1 NM_001008657.1 |
| 94.1 | 95.3 | 98.3 | 96.2 NM_000356.2 |
| 87.1 | 80.9 | 89.1 | 83.7 NM_001008657.1 |
| 92.8 | 82.3 | 98.3 | 93.9 NM_001008656.1 |
| 682.4 | 435.3 | 381 | 361.3 NM_030752.2 |
| 129.9 | 141.6 | 126 | 118 NM_030752.2 |
| 82.3 | 81.7 | 84.6 | 83.9 NM_004610.3 |
| 107.3 | 97.8 | 100.5 | 95.2 NM_144659.3 |

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| 101.1 | 91.6 | 94 | 98.8 NM_018679.2 |
| 87 | 84.3 | 78 | 81.3 NM_018393.2 |
| 71.2 | 78.3 | 73.5 | 77.2 NM_152772.1 |
| 215.4 | 189.3 | 171.5 | 181.4 NM_022171.1 |
| 1041.8 | 598.6 | 563.1 | 609.4 NM_152665.1 |
| 98.2 | 81.2 | 92.5 | 96.1 NM_003212.1 |
| 77.6 | 76.1 | 78.2 | 83.9 NR_002718.2 |
| 86 | 82.1 | 71.1 | 87.2 NR_001578.1 |
| 89.1 | 84.7 | 78.6 | 85.8 NM_005651.1 |
| 533.5 | 552.1 | 655.6 | 654.8 NM_018319.3 |
| 141.3 | 124.5 | 123.2 | 119.6 NM_018319.3 |
| 233.5 | 181.7 | 179.8 | 139.3 NM_018319.3 |
| 339.3 | 450.2 | 482.7 | 508.9 NM_198795.1 |
| 88.9 | 95.5 | 85.7 | 94 NM_182499.2 |
| 128.7 | 131 | 109 | 133.5 NM_030794.1 |
| 91.2 | 84.1 | 90.2 | 83.8 NM_019038.2 |
| 84.3 | 76.5 | 89.3 | 86.8 NM_173533.2 |
| 99.4 | 95.1 | 101 | 88.4 NM_001010870.1 |
| 1411.5 | 1636.5 | 1560.1 | 1446 NM_014290.1 |
| 92.7 | 101.1 | 89.4 | 81.2 NM_153046.1 |
| 97.7 | 98.2 | 101.5 | 95.2 NM_006862.2 |
| 81.8 | 83.5 | 86.5 | 77.3 NM_021961.3 |
| 229.8 | 149.5 | 143.9 | 129.2 NM_003598.1 |
| 83.7 | 88.2 | 86.7 | 85.9 NM_003214.2 |
| 77.5 | 79.2 | 83.4 | 97.5 NM_201443.1 |
| 108.8 | 108.2 | 100.4 | 98.4 NM_003213.2 |
| 232.4 | 156.6 | 155.3 | 116.3 NM_201441.1 |
| 105.8 | 94.1 | 98.9 | 88.4 NM_003215.1 |
| 93.4 | 109.5 | 98.2 | 86.1 NM_005422.1 |
| 94.7 | 88 | 85.4 | 91.7 NM_058222.1 |
| 97.8 | 97.8 | 93.9 | 95.9 NM_172000.1 |
| 189.6 | 174.4 | 144.5 | 177.7 NM_003216.2 |
| 3161.5 | 2689.3 | 1936.7 | 1902 NM_003217.1 |
| 105.1 | 91.7 | 92.6 | 102.6 NM_000459.2 |
| 97.6 | 90.3 | 93.5 | 92.9 NM_053285.1 |
| 109.8 | 119.8 | 112.8 | 108.6 NM_014466.2 |
| 84 | 84.5 | 82.2 | 94.7 NM_031898.1 |
| 76.7 | 70.5 | 68.5 | 83.7 NM_144705.2 |
| 91.2 | 82.9 | 82.5 | 87.3 NM_015319.2 |
| 86 | 86.8 | 89.1 | 85.1 NM_198316.1 |
| 99.1 | 95.5 | 96.4 | 91.5 NM_198316.1 |
| 89.6 | 82.3 | 81.4 | 85.2 NM_170754.2 |
| 79 | 87 | 75.5 | 89.4 NM_139243.1 |
| 100.3 | 89.9 | 88.1 | 99.6 NM_007110.3 |
| 90.8 | 95.9 | 84.4 | 88.1 NM_199046.1 |
| 85.1 | 86.5 | 88.5 | 91.8 NM_199046.1 |
| 85.9 | 87 | 81.4 | 86.9 NM_199046.1 |
| 336.1 | 238.8 | 215.5 | 207.4 NM_017489.1 |
| 86.1 | 78 | 83.5 | 78.2 NM_003218.2 |
| 108.9 | 86.9 | 78.5 | 99.2 NM_003218.2 |

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| 382.4 | 319.6 | 248 | 249.8 NM_005652.2 |
| 542.7 | 407.4 | 342.2 | 286.3 NM_018975.2 |
| 97.2 | 90.5 | 92.7 | 95.6 NM_198253.2 |
| 92.7 | 82.1 | 84.6 | 93.5 NM_003219.1 |
| 107.2 | 118.5 | 95.2 | 108.2 NM_152829.1 |
| 121.4 | 120.8 | 118.9 | 110.2 NM_015641.2 |
| 410.7 | 200.2 | 186.8 | 169.9 NM_017899.1 |
| 335.9 | 258.5 | 218.2 | 182.8 NM_006285.2 |
| 109.6 | 137.9 | 132.6 | 135.5 NM_007170.1 |
| 87.3 | 87.9 | 78.5 | 87.6 NM_182702.1 |
| 100.1 | 82.9 | 91.4 | 89.1 NM_199183.1 |
| 9610 | 5972.8 | 6141.1 | 3588.3 NM_001120.2 |
| 531.6 | 325.4 | 299.3 | 241.2 NM_017746.1 |
| 84.6 | 83.2 | 85.1 | 76.7 NM_031451.3 |
| 100 | 96.6 | 84.5 | 88 NM_001003811.1 |
| 93.2 | 94.7 | 82 | 94.4 NM_031276.2 |
| 87.8 | 89.4 | 85.6 | 85.5 NM_001003811.1 |
| 95.2 | 87.9 | 88 | 87.6 NM_031275.3 |
| 90.5 | 96.5 | 89.7 | 98.3 NM_031274.2 |
| 98.4 | 88.1 | 78.2 | 88.1 NM_031273.1 |
| 96.1 | 88.3 | 79.4 | 90.4 NM_198393.2 |
| 78.7 | 79.2 | 79.5 | 82.9 NM_031272.3 |
| 125.2 | 103.6 | 84.4 | 101.5 NM_031271.2 |
| 599.1 | 607.9 | 572.3 | 427.4 NM_018469.3 |
| 206.8 | 179.9 | 153.8 | 135.6 NM_144582.2 |
| 408.9 | 262.5 | 249 | 179.3 NM_015926.3 |
| 83.5 | 84.1 | 88.1 | 92.8 NM_198524.1 |
| 94.5 | 91.6 | 86.1 | 87.6 NM_001063.2 |
| 1126.4 | 763.9 | 653.7 | 492.1 NM_003201.1 |
| 115 | 121.4 | 172.1 | 162.4 NM_003220.2 |
| 129.4 | 126.6 | 125.3 | 114 NM_001032280.1 |
| 89.7 | 90.8 | 82.6 | 86.8 NM_001032280.2 |
| 101.6 | 112.3 | 98.7 | 88.5 NM_001032280.2 |
| 85.1 | 76.1 | 82.1 | 86.3 NM_003221.2 |
| 121.1 | 337.6 | 330.2 | 296.7 NM_003222.3 |
| 84.9 | 84.1 | 92.1 | 90.3 NM_172238.1 |
| 107.8 | 95.7 | 99.5 | 91.9 NM_178548.2 |
| 104.4 | 96.1 | 101.6 | 96.7 NM_003223.1 |
| 612.5 | 657.1 | 586.5 | 410.3 NM_016020.1 |
| 1424.4 | 705.8 | 614.9 | 471.6 NM_022366.1 |
| 634.6 | 577.9 | 524 | 406.2 NM_005653.3 |
| 97.5 | 90.6 | 91.4 | 88.4 NM_014553.1 |
| 4527.3 | 3033.4 | 2717 | 2516.1 NM_007111.3 |
| 153.6 | 127.8 | 125.8 | 122.1 NM_006286.1 |
| 91.7 | 95.9 | 100.6 | 96.8 NM_016521.2 |
| 181.4 | 173.8 | 156.9 | 137.3 NM_006521.3 |
| 103.5 | 105.2 | 108.1 | 101.9 NM_007162.1 |
| 94.3 | 83.7 | 89.9 | 99.1 NM_012252.2 |
| 94.7 | 83.7 | 80.8 | 90.1 NM_012252.2 |
| 95.5 | 82.9 | 90.5 | 95.8 NM_003225.2 |

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| 93 | 85.8 | 87 | 89.6 NM_005423.3 |
| 85.2 | 87.9 | 89.1 | 84.4 NM_003226.2 |
| 196.2 | 116.2 | 101.7 | 100.8 NM_006070.4 |
| 3230.8 | 2005.2 | 1747.8 | 2071.1 NM_006070.4 |
| 291.2 | 288.9 | 235.9 | 220.2 NM_012143.2 |
| 294.8 | 286.3 | 236.7 | 212.8 NM_012143.2 |
| 178.7 | 184.3 | 210 | 166.9 NM_001008697.1 |
| 90.7 | 88.8 | 81.3 | 83.6 NM_001032281.1 |
| 94.2 | 83.8 | 86.7 | 79.3 NM_001032281.1 |
| 100.9 | 85.4 | 83.2 | 79.4 NM_006287.3 |
| 94 | 91.4 | 88.8 | 91.5 NM_006528.2 |
| 498.4 | 441 | 427.2 | 298.8 NM_013342.1 |
| 91.8 | 91.7 | 94.8 | 90.3 NM_003227.2 |
| 4833.8 | 3805.2 | 3191.4 | 2752.9 NM_003234.1 |
| 103.2 | 94.3 | 91.4 | 104.1 NM_003235.4 |
| 554.7 | 440.1 | 348.2 | 288 NM_014305.1 |
| 95 | 99.9 | 94.1 | 97.1 NM_003236.1 |
| 104.3 | 93.8 | 104.9 | 103.1 NM_000660.3 |
| 88 | 86.9 | 85.4 | 83.9 NM_015927.3 |
| 113.5 | 99.3 | 87 | 88 NM_015927.3 |
| 88.2 | 68.1 | 78 | 94.2 NM_003238.1 |
| 101.8 | 96.9 | 98.1 | 100.7 NM_003239.1 |
| 2442.7 | 7804.2 | 5983.6 | 4172.2 NM_000358.1 |
| 94.6 | 90 | 100 | 97.9 NM_004612.2 |
| 108.2 | 115.6 | 95.3 | 103.6 NM_001024847.1 |
| 377.3 | 602.5 | 557.5 | 388.8 NM_001024847.1 |
| 195.6 | 236.4 | 267.5 | 244.6 NM_003243.2 |
| 192.4 | 169.4 | 170.8 | 126.8 NM_004257.3 |
| 94.3 | 91.1 | 91.5 | 94.2 NM_173207.1 |
| 89.5 | 78.1 | 77.4 | 85 NM_003244.2 |
| 108.4 | 100.1 | 94 | 108.3 NM_173209.1 |
| 79.6 | 87.8 | 80.6 | 84.2 NM_174886.1 |
| 340.9 | 396.9 | 323.8 | 342.3 NM_170695.2 |
| 106.6 | 102.2 | 92.8 | 94.7 NM_170695.2 |
| 261.4 | 203.3 | 225.2 | 157.5 NM_021809.4 |
| 91.8 | 95.4 | 92.3 | 90.4 NM_000359.1 |
| 89.5 | 88.5 | 87.5 | 95.2 NM_004613.2 |
| 96.8 | 96 | 91.6 | 89.1 NM_198951.1 |
| 91.5 | 91 | 99.8 | 85.7 NM_198951.1 |
| 93.5 | 81.8 | 89.2 | 84.7 NM_003245.2 |
| 100.2 | 95 | 89 | 101 NM_003241.1 |
| 391.9 | 481.9 | 421.9 | 332.2 NM_201631.1 |
| 179.8 | 276.2 | 208.9 | 189.4 NM_201631.2 |
| 85.3 | 92.3 | 86.1 | 77.1 NM_201631.2 |
| 81.6 | 82.1 | 81 | 85.9 NM_198994.1 |
| 92.5 | 91.4 | 87.4 | 93.4 NM_052955.1 |
| 1229.8 | 1222.3 | 1244.6 | 527.8 NM_006464.2 |
| 86.5 | 88.6 | 77.6 | 89.4 NM_000360.2 |
| 85.8 | 72.4 | 83.4 | 81.4 NM_000360.3 |
| 987 | 707.9 | 716.8 | 448.8 NM_198976.1 |

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| 226.4 | 264.3 | 270.9 | 185.3 NM_198554.1 |
| 84.1 | 92.1 | 89.5 | 83.6 NM_022065.3 |
| 277.1 | 230.8 | 165.5 | 164.2 NM_018105.2 |
| 120.3 | 100.4 | 111.2 | 99 NM_199003.1 |
| 308.9 | 272.9 | 251.4 | 211.3 NM_020147.2 |
| 1574.8 | 907.5 | 863.8 | 581 NM_020457.2 |
| 99.5 | 91.6 | 93.5 | 101.3 NM_031435.1 |
| 101.3 | 90.9 | 85.7 | 93.6 NM_138350.2 |
| 124 | 126.5 | 102.2 | 130.6 NM_015963.4 |
| 90.3 | 76.6 | 73.2 | 88 NM_182529.1 |
| 193.6 | 219.5 | 193.4 | 169.6 NM_144721.3 |
| 121.5 | 110.1 | 116 | 105.6 NM_001008696.1 |
| 271.3 | 245 | 224.1 | 188.8 NM_030573.2 |
| 103.9 | 97.2 | 87 | 87.4 NM_030573.2 |
| 80.5 | 65.7 | 77.7 | 86 NM_152658.1 |
| 95.6 | 94.6 | 86 | 94.2 NM_024672.2 |
| 165.2 | 144.2 | 118.6 | 115 NM_000361.2 |
| 92.2 | 110.2 | 85.5 | 99.3 NM_003246.2 |
| 94.1 | 84.1 | 85.2 | 83.9 NM_003247.2 |
| 92.7 | 88.2 | 90.1 | 101.2 NM_007112.3 |
| 438.5 | 338 | 360.7 | 230.6 NM_003248.3 |
| 83.7 | 90.8 | 81.5 | 84.3 NM_018324.1 |
| 104.1 | 104 | 102.6 | 92.3 NM_199202.1 |
| 95.5 | 96.5 | 93.6 | 94.5 NM_016585.3 |
| 461.9 | 516.2 | 411.6 | 485.8 NM_018473.2 |
| 95.2 | 94.5 | 84.7 | 85.8 NM_053055.3 |
| 88.2 | 95.7 | 85.3 | 86.2 NM_182578.1 |
| 84.1 | 76.2 | 79.7 | 83.4 NM_153332.2 |
| 161.6 | 149.4 | 139.8 | 122.8 NM_017872.3 |
| 126.1 | 115.8 | 99.1 | 97.8 NM_024838.3 |
| 429 | 376.1 | 346.2 | 329.7 NM_005131.1 |
| 291.1 | 400.8 | 401.8 | 283 NM_020449.2 |
| 138.5 | 145.5 | 138 | 133.7 NM_020449.1 |
| 639.9 | 478.7 | 404.4 | 309.8 NM_032361.1 |
| 880 | 812.2 | 701.6 | 487.6 NM_032361.1 |
| 783.4 | 382.6 | 340.6 | 238.7 NM_005782.2 |
| 602 | 358.3 | 422.3 | 255.8 NM_001002878.1 |
| 640.7 | 408.5 | 405.6 | 280.4 NM_001002878.1 |
| 851.5 | 541.1 | 474.4 | 402.9 NM_003249.3 |
| 84.7 | 83.7 | 82.5 | 79.8 NM_199356.1 |
| 101.9 | 109.4 | 88.8 | 100 NM_199334.2 |
| 97.5 | 93.2 | 89.6 | 90.7 NM_199334.2 |
| 98.2 | 91.3 | 102.1 | 87.7 NM_003250.4 |
| 84.4 | 87.4 | 85.2 | 101.6 NM_005121.1 |
| 102.4 | 132.3 | 135.6 | 148.7 NM_015335.2 |
| 99.5 | 93 | 98.2 | 86.9 NM_005119.2 |
| 284.5 | 233.5 | 225.5 | 187.4 NM_014815.3 |
| 414 | 377.1 | 347.5 | 288.7 NM_014815.2 |
| 366.2 | 293.9 | 312.7 | 153 XM_939640.1 |
| 613.5 | 431.6 | 435.5 | 235.7 NM_005481.2 |

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| 193.3 | 195 | 155.6 | 148.5 NM_005481.2 |
| 2738.7 | 1508.8 | 1603.8 | 954.6 NM_080651.1 |
| 88.6 | 80.9 | 78.3 | 75.3 NM_000461.2 |
| 86.9 | 84.8 | 76 | 70.3 NM_003251.2 |
| 93.3 | 86 | 74.9 | 88.9 NM_018676.2 |
| 87.6 | 82.3 | 83.4 | 85.1 NM_018676.2 |
| 93.4 | 88.1 | 83.4 | 94 NM_199263.1 |
| 100.4 | 97.2 | 84.1 | 94.7 NR_002816.1 |
| 84.6 | 88.3 | 89 | 87.8 XR_000915.1 |
| 77.4 | 73.1 | 70.2 | 79.8 NM_199296.1 |
| 86.4 | 91.7 | 85.1 | 89.6 NM_199296.1 |
| 97.6 | 109.1 | 94.1 | 93.6 NM_199265.1 |
| 109.6 | 103.8 | 98.6 | 108.4 NM_024817.1 |
| 85.8 | 86.9 | 82.9 | 93.2 NM_001080427.1 |
| 99.3 | 93.9 | 81.2 | 92.3 NM_024328.2 |
| 372.2 | 297.9 | 325 | 295 NM_017736.3 |
| 317.2 | 303.5 | 237 | 221.5 NM_025264.2 |
| 171.6 | 156.9 | 158.1 | 152.9 NM_015453.1 |
| 89.6 | 78.7 | 84.4 | 77.4 NM_006288.2 |
| 847.9 | 519.3 | 401.1 | 520.4 NM_199298.1 |
| 130.6 | 109 | 91.8 | 102.9 NM_014174.2 |
| 599.9 | 384.2 | 270.9 | 297.4 NM_199297.1 |
| 1143.7 | 944.9 | 866 | 754.7 NM_022173.1 |
| 848.4 | 845.9 | 1070.1 | 660.6 NM_004740.3 |
| 296.1 | 271.7 | 203 | 310.1 XM_945552.1 |
| 1009.7 | 598.4 | 533.6 | 684.2 NM_003252.2 |
| 210.6 | 139.2 | 132.3 | 165.6 NM_003252.3 |
| 91 | 92.6 | 92.5 | 94 NM_003253.1 |
| 86.6 | 82.9 | 83.4 | 91.3 NM_012454.3 |
| 94.4 | 106 | 103 | 90.3 NM_001010927.2 |
| 102.5 | 104.4 | 97.1 | 113.2 NM_014261.1 |
| 517 | 405.9 | 410 | 231.3 NM_182919.1 |
| 477.6 | 429.4 | 326.8 | 297.9 NM_021649.3 |
| 95.1 | 90.8 | 81.1 | 87.4 NM_005424.2 |
| 120.3 | 98.5 | 94 | 92.6 NM_052864.2 |
| 97.9 | 93.9 | 94.5 | 97.5 NM_145702.1 |
| 379.6 | 279.7 | 216.3 | 226.4 NM_145715.1 |
| 98.1 | 80.3 | 86.1 | 99.4 NM_145719.1 |
| 76.8 | 79.2 | 73.3 | 77.6 NM_145720.2 |
| 892.4 | 547.9 | 513.7 | 263 NM_032862.2 |
| 118.7 | 116.7 | 112.8 | 106.7 NM_030953.2 |
| 156.2 | 164.5 | 189.6 | 157.3 NM_033208.2 |
| 84.7 | 77.2 | 82.4 | 92.9 NM_138379.1 |
| 888.3 | 778.4 | 763 | 489.2 NM_003920.2 |
| 2150.2 | 1152.9 | 1000.9 | 607 NM_012456.1 |
| 94.9 | 85 | 72.1 | 81.6 NM_012458.2 |
| 122.4 | 99.7 | 106.6 | 102.8 NM_006335.1 |
| 332.2 | 301.7 | 241 | 158.2 NM_005834.1 |
| 600.8 | 470.4 | 486.3 | 277.2 NM_013337.2 |
| 626.4 | 476.4 | 355.1 | 338.5 NM_006327.2 |

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| 2334.6 | 1403.1 | 910.3 | 1032.5 | NM_006327.2 |
| 1149.7 | 711.1 | 534.4 | 528.5 | XM_943316.1 |
| 299.5 | 261.2 | 243.3 | 194.8 | NM_006351.2 |
| 82.7 | 86.3 | 79.6 | 82.9 | NM_001001563.1 |
| 147.3 | 124 | 115.8 | 102.5 | NM_004085.2 |
| 133.7 | 126.7 | 125.9 | 112.5 | NM_012459.1 |
| 330.8 | 175.6 | 162.1 | 211.5 | NM_012460.2 |
| 4343 | 4702.1 | 4588.7 | 2815.9 | NM_003254.2 |
| 952.3 | 1764.8 | 1545.8 | 1231.6 | NM_003255.4 |
| 199.7 | 242.3 | 219.6 | 217.2 | NM_003255.4 |
| 181.8 | 132.4 | 119 | 128.2 | NM_000362.4 |
| 100.5 | 81.3 | 86.6 | 88.1 | NM_003256.2 |
| 90.8 | 87.5 | 88.4 | 94.3 | NM_014464.2 |
| 82.5 | 87.1 | 78.2 | 88.9 | NM_022164.1 |
| 559.2 | 432.7 | 415.5 | 285.9 | NM_012461.1 |
| 8076.6 | 8121 | 7307 | 6072.8 | NM_014886.2 |
| 111.4 | 97.3 | 99.9 | 100.8 | NM_178449.2 |
| 653.5 | 751.9 | 684.2 | 552.5 | NM_015508.2 |
| 837.1 | 586.1 | 507.6 | 420.9 | NM_001031800.1 |
| 290.1 | 260.3 | 242.5 | 286.8 | NM_152902.3 |
| 89.8 | 80.6 | 79.6 | 90.6 | NM_148910.1 |
| 112.8 | 100.4 | 93.5 | 95.2 | NM_001039661.1 |
| 115.8 | 104.5 | 90.9 | 95.9 | NM_001039661.1 |
| 85.8 | 77 | 75.7 | 84 | NM_003317.3 |
| 89.2 | 93.4 | 87.6 | 93.7 | NM_003317.3 |
| 2027.3 | 1613.9 | 1797.4 | 689.4 | NM_080604.1 |
| 76.9 | 86.6 | 87.2 | 84.2 | NM_175610.2 |
| 95.1 | 80.4 | 85.6 | 90.8 | NM_003257.2 |
| 113.7 | 100.5 | 98.7 | 94.9 | NM_201629.1 |
| 103.1 | 104.2 | 91 | 96.4 | NM_004817.2 |
| 96.1 | 112.6 | 124.1 | 106.2 | NM_014428.1 |
| 2746.5 | 1359 | 1495.2 | 1052.7 | NM_003258.1 |
| 153.9 | 135.2 | 134.8 | 119.9 | NM_004614.2 |
| 6707.9 | 6735.7 | 6271.2 | 4807.2 | NM_001064.1 |
| 89.4 | 90.7 | 98.5 | 85.6 | NM_012253.2 |
| 93.2 | 81 | 84.3 | 92.8 | NM_032136.3 |
| 114 | 112.4 | 96.5 | 93.1 | NM_138463.2 |
| 137.7 | 117.5 | 129.4 | 100.9 | NM_005077.3 |
| 99.8 | 90.2 | 95.2 | 92.5 | NM_003260.3 |
| 146.6 | 154 | 140.3 | 134.4 | NM_005078.1 |
| 948.7 | 681.7 | 532.3 | 585.9 | NM_007005.3 |
| 100.8 | 89.5 | 88.1 | 94.6 | NM_024760.1 |
| 263.3 | 197.8 | 181.5 | 255.1 | NM_012290.3 |
| 458.9 | 533.9 | 439.4 | 358.3 | NM_006852.2 |
| 86.4 | 76.2 | 78.7 | 78 | NM_012464.3 |
| 90.8 | 81.4 | 69.8 | 82.1 | NM_012465.2 |
| 483.2 | 500.1 | 431.7 | 359.8 | NM_006289.2 |
| 105.9 | 137.8 | 137.9 | 117 | NM_015059.1 |
| 241.2 | 427.1 | 361.6 | 307.2 | NM_003262.3 |
| 95.4 | 95.9 | 90.6 | 80.8 | NM_003263.3 |

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| 104.3 | 96.7 | 80.7 | 90 NM_030956.2 |
| 88.9 | 90.8 | 91.3 | 94.8 NM_030956.2 |
| 99.2 | 108.7 | 105 | 102.2 NM_003264.3 |
| 95.2 | 88.3 | 70.8 | 79.2 NM_003265.2 |
| 138.2 | 228.3 | 156.3 | 175.2 NM_138557.1 |
| 99.7 | 100.5 | 92.2 | 86.7 NM_003268.3 |
| 100.8 | 93.4 | 79.9 | 83.3 NM_006068.2 |
| 95.7 | 93.2 | 98.7 | 93.7 NM_016562.3 |
| 89.8 | 80.5 | 80.3 | 82.6 NM_016610.2 |
| 94.5 | 88.9 | 89.9 | 93.4 NM_016610.2 |
| 89 | 88.1 | 87.5 | 88 NM_138636.2 |
| 97.8 | 99.3 | 103.5 | 83.7 NM_017442.2 |
| 91.6 | 97 | 79.3 | 85.7 NM_005521.2 |
| 89.9 | 93.7 | 88.9 | 85.1 NM_001534.2 |
| 85 | 88.2 | 85.9 | 85 NM_016170.3 |
| 82.8 | 89.4 | 80.3 | 81.5 NM_016170.3 |
| 86 | 90.1 | 90.2 | 83.7 NM_021025.2 |
| 1051.1 | 832.8 | 908.8 | 765.4 NM_032027.2 |
| 300.9 | 197.9 | 193.1 | 190 NM_078473.2 |
| 141.7 | 134.4 | 125.8 | 107.5 NM_078474.1 |
| 799.2 | 562.5 | 499.6 | 498.2 NM_025141.2 |
| 90 | 83.3 | 89.6 | 91.7 NM_014220.2 |
| 99.9 | 80 | 88.8 | 97.3 NM_015993.1 |
| 99.7 | 85.6 | 87.6 | 99.3 NM_138786.1 |
| 94.6 | 94.6 | 89.8 | 90 NM_138461.2 |
| 101.4 | 98.6 | 88.8 | 95.3 NM_138461.2 |
| 89.6 | 82.5 | 85.7 | 81.3 NM_024795.1 |
| 86.1 | 82.7 | 82.7 | 83.6 NM_004617.2 |
| 80.3 | 83.8 | 68.4 | 88.2 NM_003963.2 |
| 123.6 | 170.2 | 148.5 | 133 NM_023003.1 |
| 83 | 77.6 | 80.7 | 80.2 NM_001001524.1 |
| 103 | 95 | 95.7 | 96.8 NM_203510.1 |
| 85.2 | 84.3 | 78.5 | 83.3 NM_203510.1 |
| 427 | 267.5 | 266.1 | 227.1 NM_003273.1 |
| 261.9 | 223.6 | 189.2 | 220.7 NM_016551.1 |
| 99.2 | 95.3 | 87.5 | 90.6 NM_030788.2 |
| 329.1 | 232.4 | 205.6 | 188.6 NM_006405.5 |
| 129 | 114.5 | 104 | 105.6 NM_001014842.1 |
| 149.3 | 129.6 | 128.9 | 124.1 NM_001014842.1 |
| 2330.8 | 1757.6 | 1571.2 | 1732 NM_004800.1 |
| 552.8 | 581.9 | 501.7 | 358.5 NM_014742.2 |
| 162.3 | 147.9 | 140.2 | 120.7 NM_022152.4 |
| 5586.1 | 5252.6 | 5841.4 | 4249.3 NM_016056.1 |
| 92.3 | 85.8 | 86.3 | 81.8 NM_080751.1 |
| 93.5 | 95.1 | 86.4 | 87.9 NM_144686.1 |
| 92.9 | 89.2 | 90.5 | 77.3 NM_024780.3 |
| 467.4 | 420.7 | 339 | 277 NM_007267.5 |
| 95.2 | 104 | 91.9 | 101.3 NM_024847.2 |
| 92.9 | 100.2 | 100.6 | 99.5 NM_152468.3 |
| 77.8 | 87.5 | 83.4 | 84.6 NM_001017395.1 |

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| 97.2 | 93.6 | 102.1 | 101.9 NM_015008.2 |
| 78.2 | 89.1 | 83.2 | 89 NM_014858.2 |
| 82.5 | 87.2 | 87 | 74.8 NM_020698.1 |
| 4330.6 | 3440 | 3111.1 | 2052 NM_019026.2 |
| 86.3 | 85 | 89.6 | 90.4 NM_001008740.2 |
| 475 | 427.9 | 387.5 | 355 NM_017905.3 |
| 124.6 | 123.5 | 122.4 | 117.5 NM_181719.2 |
| 92.7 | 91.8 | 80.4 | 77.1 NM_152453.2 |
| 133.3 | 117 | 110.9 | 101.6 NM_018502.3 |
| 94 | 82.9 | 89.3 | 90 NR_001448.1 |
| 277.1 | 249.7 | 220.6 | 151.9 NM_006858.2 |
| 1892.1 | 1583.6 | 1498.2 | 1355 NM_006827.4 |
| 3669.1 | 1953.3 | 1944.5 | 1272.5 NR_002807.1 |
| 797.3 | 726.6 | 651.1 | 540.8 NM_006815.2 |
| 5228.1 | 4735.8 | 4526.1 | 2617.7 NM_007364.2 |
| 1106.9 | 1211.1 | 1083.4 | 933.3 NM_182547.2 |
| 979.4 | 836.4 | 813.1 | 783.8 NM_016040.3 |
| 90.2 | 80.2 | 93.2 | 94.4 NM_144676.1 |
| 691.3 | 490.1 | 489.2 | 677.6 NM_181836.3 |
| 101.8 | 107.9 | 101.1 | 95.4 NM_213601.1 |
| 2415.9 | 2432.9 | 1902.7 | 1543.6 NM_017510.3 |
| 101.8 | 94 | 84.2 | 94.8 NM_003692.2 |
| 80.1 | 80.8 | 80.8 | 77.5 NM_016192.2 |
| 148.4 | 162.1 | 140.4 | 134.4 NM_003274.3 |
| 88.8 | 92.5 | 77.2 | 82.8 NM_001001723.1 |
| 102.9 | 104.2 | 100 | 97.8 NM_001001723.1 |
| 88.9 | 84.9 | 96.9 | 94.9 NM_033207.2 |
| 102.3 | 90.9 | 87.8 | 85.7 NM_001040102.1 |
| 101.3 | 109.7 | 94.2 | 82.3 NM_018286.1 |
| 956.7 | 789.6 | 785.4 | 541.5 NM_032376.2 |
| 91.6 | 105 | 93.3 | 88.7 NM_178518.2 |
| 421.9 | 774.2 | 714.2 | 479.2 NM_001031703.1 |
| 146.1 | 188.1 | 193.3 | 144.3 NM_001031703.1 |
| 146.9 | 131.6 | 125.7 | 119.3 NM_017728.2 |
| 141.1 | 125.6 | 124.1 | 95.6 NM_178520.2 |
| 89.1 | 110.1 | 95.4 | 105.6 NM_018374.2 |
| 499.6 | 412.5 | 337.5 | 352 NM_024056.2 |
| 92.2 | 87 | 82.4 | 89.3 NM_032354.2 |
| 119.5 | 120.3 | 115.4 | 96.5 NM_023943.1 |
| 771.9 | 599.3 | 506 | 467.7 NM_024092.1 |
| 166.6 | 136.5 | 120.5 | 137.2 NM_003876.1 |
| 119.6 | 110.5 | 99.9 | 107.1 NM_198563.1 |
| 1029.9 | 782.4 | 716.5 | 646.4 NM_025222.2 |
| 444 | 386.2 | 336.1 | 231.2 NM_007024.4 |
| 513 | 569.5 | 585.9 | 403.1 NM_138341.1 |
| 147.2 | 104.9 | 107.2 | 114.7 NM_032256.1 |
| 120.6 | 97.2 | 105.5 | 98.7 NM_032814.1 |
| 86.7 | 92 | 90 | 99.7 NM_181724.1 |
| 85.7 | 88.2 | 78 | 81.2 NM_025268.2 |
| 90.1 | 83 | 90.3 | 86.6 NM_173801.3 |

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| 3405.1 | 2978.2 | 1920.7 | 2228.9 | NM_052932.1 |
| 96.3 | 95.9 | 86.7 | 85.4 | NM_144626.1 |
| 3433.3 | 2064.7 | 1859.9 | 2089.9 | NM_032273.2 |
| 1878 | 1631.6 | 1606.3 | 913.4 | NM_018480.2 |
| 128.7 | 157.7 | 142.3 | 111.6 | NM_017849.1 |
| 142.5 | 126.7 | 120.9 | 115.9 | NM_032927.2 |
| 92.5 | 89.4 | 90.8 | 99.5 | NM_138385.2 |
| 89.9 | 93.1 | 90.1 | 87.6 | NM_152913.1 |
| 93.1 | 88.8 | 81.7 | 80.1 | NM_178031.2 |
| 160.4 | 160.5 | 135.9 | 140.3 | NM_001078651.1 |
| 968.8 | 837.3 | 766.2 | 670 | NM_014051.2 |
| 1333.4 | 871.8 | 1270.3 | 921.8 | NM_030969.2 |
| 2221.6 | 2107.6 | 2168.2 | 1540.2 | NM_016462.2 |
| 399 | 263.1 | 219.3 | 238.4 | NM_014908.3 |
| 176.8 | 243.1 | 223.1 | 156.9 | NM_001031738.1 |
| 112.6 | 90.7 | 90.7 | 85.4 | NM_153266.2 |
| 86.4 | 91.5 | 83.1 | 91.9 | NM_153266.2 |
| 371.1 | 332.4 | 339.6 | 281.9 | NM_152680.1 |
| 100.6 | 123.1 | 126 | 97 | NM_024943.1 |
| 93.8 | 98.2 | 96.2 | 87.9 | NM_198507.1 |
| 105 | 108 | 108.1 | 98.7 | NM_020422.3 |
| 95.5 | 121.1 | 111.6 | 97.7 | NM_032227.2 |
| 85.4 | 81.9 | 90.7 | 84.2 | NM_018043.4 |
| 89.8 | 96 | 85.9 | 87.6 | NM_020373.1 |
| 93.7 | 89.2 | 90.5 | 89.2 | NM_031418.1 |
| 104.2 | 105.6 | 94 | 107.3 | NM_178826.2 |
| 90.5 | 85.3 | 82.6 | 81.7 | NM_213599.1 |
| 520.2 | 656.1 | 497 | 463.7 | NM_001025356.1 |
| 78.9 | 85.2 | 71.4 | 79.7 | NM_001001666.1 |
| 103.3 | 93.6 | 94.3 | 96.7 | NM_001001891.1 |
| 77.9 | 73.8 | 81.3 | 75.7 | NM_001001666.1 |
| 122 | 125.3 | 128.4 | 113.6 | NM_020959.1 |
| 101.8 | 113.7 | 101.6 | 101.4 | NM_001012302.1 |
| 86.2 | 84.1 | 74.3 | 88.2 | NM_001012302.1 |
| 174.1 | 145 | 144.6 | 136.8 | NM_018075.2 |
| 4036.3 | 5758.5 | 7230.1 | 7634.2 | NM_198276.1 |
| 254.1 | 185.1 | 178.4 | 156.7 | NM_145254.1 |
| 3283.1 | 2106.4 | 2484.8 | 1867.8 | NM_198282.1 |
| 94.5 | 99.1 | 99.2 | 98.2 | NM_014020.2 |
| 86.9 | 95.7 | 81 | 94.1 | NM_152390.1 |
| 214.9 | 185.6 | 156 | 162.6 | NM_152834.2 |
| 3670.8 | 2369.5 | 2188.8 | 1784.1 | NM_001079809.1 |
| 297.5 | 262.7 | 255.2 | 214.9 | NM_032508.1 |
| 327.8 | 299.1 | 245.9 | 190.7 | NR_000034.1 |
| 120.3 | 121.8 | 112.8 | 97.8 | NM_015421.1 |
| 86.7 | 91.3 | 78.7 | 89.7 | NM_018279.2 |
| 144.6 | 173.1 | 154.9 | 127.3 | NM_013390.1 |
| 145.3 | 111.2 | 102.6 | 100.3 | NM_153226.1 |
| 126.2 | 115.3 | 120.2 | 123.2 | NM_025246.1 |
| 85.5 | 100.8 | 90.2 | 95.3 | NM_147156.3 |

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| 127.7 | 92.9 | 108 | 110.7 NM_014807.3 |
| 95.5 | 85.3 | 92.8 | 88.5 NM_032780.2 |
| 91 | 91.3 | 77.3 | 87 NM_178505.4 |
| 88.5 | 101 | 96.2 | 90.5 NM_020665.2 |
| 95.3 | 94.6 | 83.7 | 90.3 NM_015686.2 |
| 368.7 | 416.1 | 351.5 | 335 NM_014138.3 |
| 456.4 | 934.8 | 810 | 637.9 NM_018247.2 |
| 76.9 | 81.1 | 75.3 | 85.8 NM_001017970.1 |
| 153.9 | 133.6 | 136.4 | 113.8 NM_182541.2 |
| 2046.1 | 1571.9 | 1480 | 1130 NM_173470.1 |
| 102.6 | 101.1 | 103.6 | 96.1 NM_018241.1 |
| 113.7 | 102.9 | 109.8 | 111 NM_021637.1 |
| 126.6 | 115.2 | 116.5 | 121.9 NM_183240.1 |
| 95.4 | 88.6 | 75.8 | 76.9 NM_024074.1 |
| 93.1 | 88.3 | 88.1 | 85.4 NM_018112.1 |
| 225.5 | 217.6 | 187.8 | 190.1 NM_018266.1 |
| 517.1 | 492.3 | 522.3 | 454.3 NM_018056.1 |
| 568.4 | 644.8 | 620.4 | 510 NM_014255.3 |
| 109.2 | 94.8 | 96.2 | 94.7 NM_018306.2 |
| 252.5 | 189.9 | 174.3 | 139.8 NM_080652.2 |
| 638.1 | 605.1 | 613.9 | 561.9 NM_015012.1 |
| 386.7 | 384.9 | 375.4 | 246.5 NM_144638.1 |
| 1196.5 | 1710.8 | 1426.4 | 853.7 NM_024334.1 |
| 133.4 | 116.6 | 118.4 | 94.9 NM_138399.3 |
| 97.4 | 101.8 | 89.2 | 93.3 NM_138399.3 |
| 145.5 | 240.3 | 180.4 | 244.8 NM_018004.1 |
| 96.3 | 92.8 | 89.6 | 88.6 NM_138788.2 |
| 90.4 | 82.6 | 78.4 | 92.1 NM_001007538.1 |
| 106.3 | 107.4 | 109 | 106 NM_031442.2 |
| 670.5 | 455.2 | 397.2 | 400.9 NM_018087.3 |
| 1318.7 | 1466.6 | 1307.8 | 964.5 NM_030938.2 |
| 1515.4 | 903.1 | 893.7 | 584.8 NM_014254.1 |
| 138.1 | 153.8 | 123 | 128.9 NM_014313.2 |
| 1069.3 | 855.6 | 764 | 602.5 NM_006134.5 |
| 506.7 | 590.8 | 550.9 | 452.8 NM_018022.1 |
| 99.7 | 97.9 | 87.5 | 100.4 NM_178545.2 |
| 107.2 | 106.4 | 110.3 | 96.8 NM_024587.2 |
| 233 | 238.4 | 192.6 | 199.3 NM_033504.2 |
| 389.6 | 335.1 | 338.6 | 399.2 NM_018710.1 |
| 402 | 361.9 | 343.8 | 273 NM_144568.1 |
| 91.4 | 87.2 | 82.5 | 93.2 NM_152487.1 |
| 163 | 176.1 | 174.4 | 153.9 NM_018202.2 |
| 97.4 | 89.1 | 98.3 | 95.8 NM_198149.1 |
| 4870.9 | 4353.6 | 4138.3 | 3262 NM_004872.3 |
| 1690.1 | 1706.5 | 1804.2 | 1281.3 NM_032936.2 |
| 90 | 92 | 90.4 | 90.6 NM_182532.1 |
| 263.3 | 319.9 | 284.3 | 266.4 NM_024956.3 |
| 130.1 | 164.6 | 163.7 | 159.7 NM_014698.1 |
| 87.2 | 97.5 | 87.4 | 101 NM_018426.1 |
| 85.2 | 99.4 | 96.1 | 85.7 NM_020431.1 |

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| 170.1 | 156.1 | 117.2 | 128.6 | NM_001008495.2 |
| 106.5 | 109.6 | 103.4 | 115.3 | NM_194291.1 |
| 5662.6 | 3313.3 | 2952.1 | 3378.6 | NM_016127.4 |
| 105.7 | 88.9 | 90.3 | 92 | NM_153704.3 |
| 115.6 | 103.8 | 99 | 103.9 | NM_152417.1 |
| 967.3 | 917.1 | 999.2 | 560.9 | NM_016486.2 |
| 136.5 | 91.7 | 107.4 | 92.5 | NM_017866.4 |
| 389.1 | 225.2 | 185.7 | 166.7 | NM_017866.3 |
| 115.6 | 117.6 | 111 | 111.1 | NM_144649.1 |
| 105.5 | 99.7 | 96.2 | 102.7 | NM_153015.1 |
| 90.4 | 81.7 | 81 | 91.8 | NM_001037234.1 |
| 826.3 | 405.2 | 278.6 | 337.3 | NM_178454.2 |
| 473.2 | 300.4 | 317.8 | 202.7 | NM_032323.1 |
| 286.6 | 276.7 | 247.2 | 289.8 | NM_021259.1 |
| 186.7 | 181.1 | 197.3 | 216.4 | XM_938671.1 |
| 149.2 | 180.1 | 166.9 | 170.1 | NM_174940.1 |
| 79.4 | 92.2 | 75.5 | 73.6 | NM_174940.1 |
| 84.2 | 74.3 | 76 | 84.6 | NM_203376.1 |
| 91.3 | 82 | 73.1 | 79.5 | NM_152454.1 |
| 3245.6 | 2941.5 | 2500 | 1802.6 | NM_016454.2 |
| 76 | 99.1 | 86.1 | 89.8 | NM_153347.1 |
| 340.5 | 261.8 | 272 | 275 | NM_173804.3 |
| 3498.2 | 3002.8 | 3242.4 | 1949.6 | NM_015497.2 |
| 105.6 | 126.4 | 100.8 | 102.8 | NM_032824.1 |
| 92.4 | 94.2 | 82 | 85 | NM_203411.1 |
| 104.9 | 106.3 | 96.1 | 91.4 | NM_001008269.1 |
| 376.5 | 324.7 | 280.5 | 230.3 | NM_016456.2 |
| 179.9 | 236.6 | 291.1 | 159.1 | NM_001042595.1 |
| 104.5 | 104 | 92.8 | 99.2 | NM_153229.1 |
| 386 | 320.3 | 347.5 | 222.4 | NM_031298.2 |
| 108.9 | 107 | 89.2 | 104.6 | NM_001014764.1 |
| 657.8 | 516.9 | 616.9 | 411.9 | NM_001014764.1 |
| 78 | 76.1 | 79.4 | 83.2 | NM_198154.1 |
| 1827.8 | 1266.9 | 1288.4 | 934.9 | NM_014573.1 |
| 92.4 | 81 | 91.3 | 84.7 | NM_015544.2 |
| 86.3 | 87.1 | 85.1 | 86.3 | NM_015544.2 |
| 832.9 | 596.1 | 488.5 | 455.8 | NM_145274.1 |
| 1102.2 | 778.4 | 768.1 | 548.2 | NM_020644.1 |
| 76.7 | 88.9 | 76.4 | 88.2 | NM_199169.1 |
| 85.4 | 87.4 | 78.8 | 85.5 | NM_020182.3 |
| 93 | 112.3 | 106.8 | 97.5 | NM_199169.1 |
| 90.6 | 98.9 | 90.6 | 92.2 | NM_199171.1 |
| 276.8 | 360.4 | 284.1 | 298.3 | NM_007114.1 |
| 98.4 | 99.9 | 102.4 | 98.2 | NM_147196.1 |
| 108.9 | 100.4 | 109.4 | 94.8 | NM_206832.1 |
| 88.1 | 84 | 82.1 | 83.2 | NM_144615.1 |
| 124.2 | 152.5 | 133.2 | 135.3 | NM_018196.1 |
| 110.7 | 108.3 | 94.7 | 101.9 | NM_018196.1 |
| 220.1 | 226.4 | 228.1 | 157.1 | NM_003275.1 |
| 85.4 | 75.7 | 87 | 80.4 | NM_014548.2 |

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| 163.9 | 154.3 | 137.8 | 127.1 NM_014547.3 |
| 111.8 | 109.3 | 103 | 111.2 NM_013353.1 |
| 148.5 | 151.3 | 161.2 | 137.3 NM_031925.1 |
| 112 | 107.1 | 94.1 | 90.6 NM_003276.1 |
| 332.3 | 192.5 | 157.6 | 162.7 NM_003276.1 |
| 95.2 | 85.1 | 93.1 | 76.6 NM_001032283.1 |
| 90.9 | 89 | 78.6 | 90.3 NM_182606.2 |
| 97.6 | 86.9 | 88.4 | 89.1 NM_182502.1 |
| 92.2 | 91.9 | 87.1 | 86.4 NM_004262.2 |
| 101.2 | 89.4 | 80.3 | 91.1 NM_182559.1 |
| 93.7 | 92.9 | 98.2 | 108.3 NM_032046.1 |
| 95.6 | 94.9 | 85.4 | 93.2 NM_005656.2 |
| 96.6 | 84.1 | 82.8 | 96.1 NM_032405.1 |
| 78.2 | 82.3 | 81.1 | 71.3 NM_032401.1 |
| 103.3 | 100.6 | 98.8 | 94.2 NM_024022.1 |
| 97.5 | 90.2 | 86.3 | 88.6 NM_032404.1 |
| 71.8 | 73.6 | 81.6 | 87.3 NM_032405.1 |
| 100.5 | 97.1 | 96 | 94.6 NM_019894.2 |
| 82.9 | 85.1 | 78.7 | 90 NM_183247.1 |
| 96.7 | 95.4 | 90.9 | 89.8 NM_030770.1 |
| 86.4 | 82.8 | 75.4 | 82.3 NM_153609.2 |
| 99.7 | 123.5 | 106.6 | 89.1 NM_001042575.1 |
| 92.2 | 79 | 92.7 | 85.2 XM_938469.1 |
| 90.7 | 90.6 | 84.9 | 91.5 NM_182973.1 |
| 8115.2 | 7515.9 | 7016 | 5595.9 NM_021103.3 |
| 98.6 | 84.3 | 90.5 | 98.4 NM_021109.2 |
| 109.1 | 110.1 | 108.5 | 90 NM_004202.2 |
| 1095.9 | 388 | 423 | 304.1 NM_021992.2 |
| 91.1 | 101.2 | 100.1 | 97.9 NM_152588.1 |
| 143.7 | 144.8 | 123 | 140.3 NM_181783.1 |
| 250.8 | 219.6 | 176.2 | 169.6 NM_032813.1 |
| 127.7 | 123.7 | 128.6 | 116.2 NM_032813.1 |
| 339.6 | 256.8 | 262.3 | 218.2 NM_032813.1 |
| 239.3 | 263 | 305 | 264.5 NM_024107.2 |
| 242.7 | 318.3 | 415 | 153.2 NM_024107.2 |
| 153.6 | 139.3 | 104.8 | 104.3 NM_002160.1 |
| 761.7 | 531.1 | 460.3 | 307.1 NM_000594.2 |
| 172.5 | 165.7 | 150.8 | 168.1 NM_021137.3 |
| 283.5 | 273.4 | 292.1 | 276.8 NM_006291.2 |
| 161.7 | 202.8 | 184.5 | 190 NM_006290.2 |
| 100.5 | 101.9 | 100.6 | 93.8 NM_007115.2 |
| 380.4 | 377.9 | 320.9 | 289.5 NM_001077654.1 |
| 100.7 | 95.4 | 82 | 80.8 NM_014350.1 |
| 182 | 140.4 | 136.1 | 118.2 NM_152362.1 |
| 216.4 | 244.3 | 229.2 | 203.9 NM_024575.1 |
| 106.1 | 105 | 89.2 | 88.9 NM_207381.2 |
| 281.2 | 210.2 | 178.2 | 168.1 NM_003844.2 |
| 90.5 | 95.3 | 90.7 | 95.4 NM_147187.1 |
| 94.8 | 96.3 | 82.4 | 107.5 NM_003842.3 |
| 467.6 | 317.7 | 285.7 | 234.5 NM_003842.3 |

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| 119 | 117.8 | 120.3 | 93.8 NM_003841.2 |
| 87.1 | 93.1 | 85.6 | 75 NM_003840.3 |
| 77.4 | 81.7 | 74.5 | 89.5 NM_003839.2 |
| 96.2 | 82.5 | 85.2 | 86.9 NM_002546.2 |
| 99.6 | 105.2 | 91.8 | 100.2 NM_016639.1 |
| 96.5 | 84.1 | 78.6 | 90.6 NM_012452.2 |
| 93.5 | 111.9 | 127.2 | 111.8 NM_052945.2 |
| 221.7 | 795.3 | 927.1 | 446.5 NM_003820.2 |
| 89 | 85.7 | 76.7 | 82.2 NM_001192.2 |
| 95.4 | 90.3 | 83.1 | 88.5 NM_148902.1 |
| 87.2 | 90.3 | 73.7 | 81.1 NM_148901.1 |
| 98.6 | 91.4 | 88.8 | 92.2 NM_018647.2 |
| 105.7 | 105.3 | 97.3 | 97.3 NM_148957.2 |
| 77.1 | 74.7 | 74.6 | 78.4 NM_018647.2 |
| 76.8 | 84.9 | 76.3 | 77.9 NM_152222.1 |
| 80.3 | 80.3 | 80.5 | 78.9 NM_032871.3 |
| 83.9 | 77.2 | 80.5 | 82.4 NM_032871.3 |
| 783.3 | 780.8 | 641.7 | 577.2 NM_001065.2 |
| 120.6 | 176.3 | 191.5 | 110 NM_001066.2 |
| 900.1 | 2006.6 | 1141.1 | 1018.4 NM_014452.3 |
| 84.2 | 87.3 | 83.9 | 81.8 NM_001039664.1 |
| 94.9 | 120.9 | 123.3 | 109.1 NM_148973.1 |
| 89.9 | 93.3 | 96.8 | 92.6 NM_003327.2 |
| 93.9 | 89.3 | 90 | 93 NM_003823.2 |
| 132.5 | 149.9 | 144.2 | 141.8 NM_032945.2 |
| 91.3 | 81.2 | 89.3 | 85 NM_001242.3 |
| 88.9 | 95.5 | 83.8 | 90.7 NM_001243.3 |
| 91.8 | 82.8 | 72.3 | 86.3 NM_001243.3 |
| 93.6 | 98.3 | 97.8 | 106.7 NM_001561.4 |
| 312.3 | 246.7 | 199.5 | 219.2 NM_003810.2 |
| 88.9 | 89 | 88.4 | 80 NM_003701.2 |
| 90.2 | 94 | 86 | 88.2 NM_003701.2 |
| 87.1 | 82.5 | 79.6 | 78.2 NM_033012.2 |
| 88.5 | 82.4 | 86.9 | 84.4 NM_003809.2 |
| 104 | 103.2 | 100.8 | 96.1 NM_172087.1 |
| 90.5 | 97.7 | 104.3 | 100.5 NM_172088.1 |
| 305.8 | 375.4 | 348.7 | 327.6 NM_006573.3 |
| 325.2 | 503.4 | 498.9 | 367.4 NM_003807.2 |
| 151.5 | 230.7 | 185.8 | 185.5 NM_003807.2 |
| 307.2 | 486.8 | 592.7 | 308.8 NM_172014.1 |
| 229.8 | 277.5 | 360.2 | 349.7 NM_005118.2 |
| 87.4 | 84 | 83.6 | 83.1 NM_005092.2 |
| 98.4 | 108.1 | 95.7 | 104.4 NM_003326.2 |
| 4483 | 2962 | 2368.5 | 2710.5 NM_020232.3 |
| 1330.1 | 1377.8 | 1091.3 | 933.6 NM_001252.2 |
| 89.6 | 97 | 82.9 | 90.6 NM_001244.2 |
| 184.2 | 147.2 | 125 | 137.2 NM_003811.2 |
| 91.7 | 93.2 | 88.7 | 103.2 NM_015028.1 |
| 274.5 | 280.5 | 268.3 | 172.4 NM_006058.2 |
| 144.5 | 113.2 | 102.9 | 100.9 NM_024309.2 |

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| 96.7 | 94.8 | 93.3 | 103.5 NM_024873.2 |
| 85.4 | 79.3 | 74.7 | 76.9 NM_003985.1 |
| 447.9 | 680 | 784.3 | 380.2 NM_005781.4 |
| 87.2 | 89.2 | 90.7 | 80.5 NM_001010938.1 |
| 98.4 | 103.5 | 94.7 | 92.2 NM_005781.4 |
| 100.4 | 101.2 | 104.1 | 102 NM_003747.1 |
| 137.6 | 130.9 | 132.9 | 126.8 NM_033396.1 |
| 82.8 | 88.9 | 86.8 | 88.1 NM_025235.2 |
| 107.7 | 96.1 | 98.1 | 96.9 NM_022144.1 |
| 98 | 98.3 | 105.1 | 100.8 NM_022093.1 |
| 82.1 | 80.3 | 78 | 83.4 NM_003280.1 |
| 87.4 | 94.1 | 85.6 | 88.6 NM_003279.2 |
| 86.1 | 88.2 | 80 | 85.3 NM_003281.3 |
| 90.4 | 109.8 | 94.1 | 93 NM_003282.2 |
| 102.5 | 90.4 | 87.3 | 93.6 NM_000363.3 |
| 95.6 | 102.2 | 101.7 | 100.9 NM_015978.1 |
| 140.5 | 136.3 | 137.1 | 130.2 NM_003283.3 |
| 101.9 | 116.5 | 99.7 | 97.9 NM_001001431.1 |
| 100.7 | 96.8 | 88.1 | 94.5 NM_001001432.1 |
| 87.7 | 81.4 | 76.2 | 80.1 NM_001042780.1 |
| 88.6 | 81 | 74.2 | 85.1 NM_006757.1 |
| 103.1 | 108.4 | 104.1 | 92.7 NM_003284.2 |
| 90.4 | 80.5 | 71.8 | 89.6 NM_005425.4 |
| 289.5 | 222.4 | 179.2 | 189.4 NM_153188.1 |
| 119.1 | 113.3 | 115.4 | 120.3 NM_002270.2 |
| 1276.7 | 1448.6 | 1296 | 852 NM_002270.2 |
| 1471.2 | 865.3 | 772.3 | 568.8 NM_013433.3 |
| 743.2 | 1063.7 | 898.2 | 760.1 NM_012470.2 |
| 97 | 90.8 | 88.2 | 93.3 NM_003285.1 |
| 357.5 | 442.9 | 427.2 | 379.6 NM_015575.2 |
| 99.4 | 90.5 | 80.9 | 81.9 NM_007185.3 |
| 1126 | 1058.3 | 836.2 | 899.3 NM_006586.2 |
| 617.4 | 535.1 | 520.5 | 381.2 NM_006586.2 |
| 100 | 101.9 | 100.8 | 106.3 NM_020847.1 |
| 212.6 | 288.9 | 273.9 | 335.3 NM_014494.1 |
| 92.5 | 92.4 | 95.7 | 90.8 NM_020847.1 |
| 411.2 | 802.9 | 657.7 | 679.6 NM_001024843.1 |
| 96.5 | 85.5 | 77.8 | 80.4 NM_001024843.1 |
| 95.2 | 91.4 | 91.8 | 98.9 NM_015088.1 |
| 92.6 | 85 | 81.3 | 85 NM_018996.2 |
| 89.8 | 79 | 78.8 | 87.4 NM_001080430.1 |
| 134.4 | 111.1 | 111 | 102.2 NM_022648.3 |
| 1208.1 | 1881.5 | 1801.1 | 1009.6 NM_022748.9 |
| 91.1 | 88.9 | 81.3 | 94 NM_032865.3 |
| 94.6 | 85.3 | 83.5 | 91.6 NM_182831.1 |
| 84.3 | 80.4 | 79.7 | 79.7 NR_001284.1 |
| 102.9 | 93.1 | 96.6 | 99.3 NM_032470.2 |
| 88 | 80.9 | 83.7 | 87.6 NM_019105.5 |
| 392.4 | 478.2 | 413.5 | 320.7 NM_005749.2 |
| 134.5 | 116.7 | 126.6 | 113 NM_016272.3 |

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| 141.6 | 125.3 | 133.3 | 111.6 NM_025077.2 |
| 243.4 | 240.5 | 228.1 | 204.7 NM_019009.2 |
| 306.9 | 433 | 366.3 | 194 NM_005488.1 |
| 122.2 | 113.2 | 94.8 | 107.3 NM_005486.1 |
| 89.5 | 97.2 | 103.4 | 99.6 NM_144678.3 |
| 91.2 | 90.9 | 92.9 | 100.4 NM_001033551.1 |
| 93 | 86.3 | 94.9 | 85.2 NM_144678.3 |
| 4775 | 3727.5 | 3154.5 | 2916.2 NM_014765.1 |
| 991.9 | 750.7 | 743.4 | 567.5 NM_020243.4 |
| 923.3 | 650.6 | 685.9 | 346.2 NM_006809.4 |
| 4011.5 | 2439.9 | 2023.7 | 943.3 NM_006114.1 |
| 282.7 | 235.8 | 193.7 | 200.8 NM_032174.4 |
| 10205.9 | 10271 | 9760.8 | 8192.4 NM_019059.2 |
| 1559 | 1089.7 | 1026 | 938.3 NM_014820.3 |
| 138.2 | 115.5 | 137.6 | 117.6 NM_003286.2 |
| 1442 | 1569.8 | 1291.4 | 1112 NM_052963.1 |
| 562.9 | 456 | 472.9 | 379.3 NM_052963.1 |
| 336.4 | 248.2 | 246.7 | 241.9 XM_944877.1 |
| 94.5 | 87 | 87.8 | 85.6 NR_002719.1 |
| 253 | 213.5 | 189.5 | 177.9 NR_001283.1 |
| 4221.4 | 3147 | 2093.5 | 2264.3 NM_001067.2 |
| 2735.3 | 3626 | 2721.3 | 3014.2 NM_001068.2 |
| 227.8 | 267.1 | 275.6 | 161 NM_004618.3 |
| 509.1 | 477.9 | 467.3 | 282.4 NM_003935.3 |
| 349.1 | 430.3 | 404.5 | 388.7 NM_007027.2 |
| 85.2 | 87.3 | 71.9 | 90.9 NM_005802.2 |
| 275.8 | 241.3 | 186.4 | 168.3 NM_000113.2 |
| 1474.3 | 979.9 | 755.4 | 921.3 NM_015602.2 |
| 159.9 | 157.9 | 125.2 | 144.4 NM_145034.1 |
| 329.2 | 245.7 | 249.7 | 181.9 NM_014506.1 |
| 167.5 | 128.6 | 134.8 | 120.6 NM_130459.1 |
| 1056.6 | 833.2 | 590.1 | 499.5 NM_022371.2 |
| 83 | 81.4 | 87.8 | 75 NM_014729.2 |
| 87.4 | 82.6 | 81.2 | 95.2 NM_000546.2 |
| 301.3 | 314.3 | 309.1 | 245.2 NM_005657.1 |
| 789.5 | 798.7 | 793.9 | 485.4 NM_001031685.1 |
| 100.4 | 90.2 | 84.7 | 95.2 NM_005426.2 |
| 120.1 | 118.8 | 114.1 | 124.5 NM_006034.2 |
| 93.4 | 90.2 | 78.1 | 92.2 NM_006034.2 |
| 400.2 | 411.9 | 526.6 | 230.4 NM_138349.2 |
| 134.4 | 100.7 | 111.1 | 108.1 NM_147184.1 |
| 107.3 | 112.3 | 110.5 | 118.2 NM_004881.2 |
| 93.3 | 102.5 | 95.7 | 108.7 NM_033285.2 |
| 222.7 | 230.6 | 201.7 | 216.8 NM_021202.1 |
| 316.8 | 306 | 250.8 | 238.3 NM_033550.3 |
| 108 | 95.6 | 92.6 | 94.4 NM_016212.1 |
| 89.8 | 93.4 | 88.2 | 86 NM_016212.2 |
| 94.4 | 89.3 | 85.2 | 97.9 NM_005427.1 |
| 81.9 | 86.4 | 89.4 | 82.6 NM_003722.3 |
| 205.3 | 148 | 176.9 | 122.3 NM_018475.2 |

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| 150.2 | 198.8 | 214.1 | 187.6 | NM_017901.3 |
| 258.9 | 236 | 283.4 | 148.9 | NM_139075.1 |
| 83.5 | 76.5 | 75.9 | 73.1 | NM_001025253.1 |
| 106.1 | 93.1 | 100.5 | 103.5 | NM_001003396.1 |
| 91.8 | 83.1 | 92.4 | 85.7 | NM_001003395.1 |
| 90.8 | 85.6 | 100.6 | 99.3 | NM_001003397.1 |
| 308.7 | 275.5 | 296.8 | 247.8 | NM_199361.1 |
| 1536.5 | 2064.1 | 2195.5 | 756 | NM_199362.1 |
| 96.9 | 84.3 | 87.9 | 84 | NM_001001874.1 |
| 91.9 | 90.6 | 84.5 | 89.6 | NM_001001875.2 |
| 109.1 | 104.6 | 100.7 | 103.2 | NM_033516.4 |
| 97.1 | 97.7 | 94 | 90.3 | NM_004179.1 |
| 93.8 | 95.9 | 90.8 | 93.1 | NM_173353.2 |
| 5036.5 | 3698 | 3325.2 | 2854.7 | NM_000365.4 |
| 843.4 | 496.1 | 444.2 | 410 | NM_022445.2 |
| 111.1 | 91.2 | 87.5 | 95.9 | NM_001042482.1 |
| 144.1 | 285.4 | 247.5 | 224.6 | NM_000366.5 |
| 104.6 | 127.1 | 129.7 | 133.2 | NM_001018008.1 |
| 224.8 | 458.2 | 409.8 | 399.5 | NM_001018004.1 |
| 873.8 | 1335.6 | 1732.2 | 797.2 | NM_213674.1 |
| 91.6 | 95 | 88.1 | 89.8 | NM_003289.3 |
| 454.6 | 633.9 | 712.2 | 676.9 | NM_003289.3 |
| 1643.6 | 1068.6 | 899.6 | 623.6 | NM_153649.2 |
| 83.5 | 85.5 | 84.8 | 94.2 | NM_001043353.1 |
| 86.5 | 82.7 | 85.9 | 85.9 | NM_152263.1 |
| 153.2 | 150.5 | 114.8 | 125.2 | NM_003290.1 |
| 304.7 | 435 | 407.7 | 286.8 | NM_000367.2 |
| 79.1 | 74.4 | 66 | 77.9 | NM_175719.1 |
| 93.5 | 85.9 | 89.8 | 91 | NM_175720.1 |
| 1623.6 | 1843.8 | 1716.5 | 1272.8 | NM_000391.2 |
| 127.3 | 133.6 | 108.9 | 129.9 | NM_003291.1 |
| 92.9 | 81.7 | 100 | 91.1 | NM_007030.1 |
| 1029 | 1687.3 | 1285.6 | 1173.3 | NM_003292.1 |
| 96.9 | 90.2 | 93.1 | 94.7 | NM_016058.1 |
| 81.4 | 77.9 | 77.7 | 84.1 | NM_198479.2 |
| 82.8 | 77.5 | 84.5 | 88.4 | NR_002223.1 |
| 79.4 | 90.4 | 75.3 | 86.3 | NM_003294.3 |
| 78.6 | 77.3 | 81.7 | 79 | NM_012217.2 |
| 103.1 | 91.2 | 88.3 | 89.6 | NM_012467.2 |
| 158.5 | 230.5 | 176.3 | 186.4 | NM_003596.2 |
| 1766.1 | 1172.9 | 1306.3 | 669.4 | NM_001008566.1 |
| 57861.9 | 56646.6 | 52855.9 | 53967.1 | NM_003295.1 |
| 77.1 | 85.4 | 85.2 | 78.5 | NM_199260.2 |
| 91.2 | 86.1 | 84.1 | 90.5 | NM_199254.1 |
| 113.1 | 158.6 | 179 | 133.3 | NM_130785.2 |
| 83.7 | 99.6 | 102.3 | 97.9 | NM_130785.2 |
| 616 | 561.9 | 449.3 | 386.6 | NM_012112.4 |
| 83.9 | 88.4 | 82.8 | 93 | NM_001039783.1 |
| 269 | 143.2 | 162.8 | 120.3 | NM_176880.4 |
| 219.5 | 289.5 | 226.1 | 255.7 | XR_000203.3 |

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| 526.8 | 503.8 | 574.9 | 412.1 NM_013293.2 |
| 156.2 | 157.5 | 135.8 | 142.8 NM_003789.2 |
| 186.2 | 193.5 | 161 | 164.3 NM_003789.2 |
| 93.6 | 87.7 | 92.4 | 84.9 NM_005658.3 |
| 191.2 | 167.2 | 163 | 172.2 NM_021138.3 |
| 182.9 | 164.4 | 159.6 | 152.6 NM_003300.2 |
| 177.7 | 157.1 | 149.1 | 134.3 NM_015650.2 |
| 82.2 | 78.6 | 74.9 | 86.8 NM_147686.1 |
| 109.2 | 109.8 | 104.1 | 105.8 NM_147200.1 |
| 550.4 | 563.5 | 468.6 | 314.3 NM_147200.1 |
| 308.4 | 283 | 281.6 | 248.8 NM_025228.1 |
| 108.3 | 106.7 | 88.5 | 96.4 NM_004295.2 |
| 85.3 | 81.8 | 82.5 | 76.6 NM_004295.2 |
| 83.2 | 93.7 | 92.2 | 87.1 NM_004619.3 |
| 82.1 | 84.7 | 81.9 | 88.5 NM_004619.3 |
| 92 | 85.7 | 78.7 | 90.9 NM_145759.2 |
| 92 | 90.4 | 86.4 | 81.5 NM_001033910.1 |
| 97.1 | 86.7 | 88.1 | 88.2 NM_004619.3 |
| 101.2 | 98.7 | 95.5 | 104.8 NM_145803.1 |
| 162.6 | 133.3 | 135.3 | 130.1 NM_004620.2 |
| 185.5 | 149 | 126.8 | 145.8 NM_004620.2 |
| 203.9 | 197.7 | 160 | 169.5 NM_032271.2 |
| 78.6 | 79.3 | 79.9 | 83.9 NM_206835.1 |
| 216.9 | 238.9 | 223.3 | 182.8 NM_006700.1 |
| 115.3 | 116.3 | 122.7 | 110.4 NM_005879.2 |
| 334.6 | 343.4 | 327.1 | 240.6 NM_014965.2 |
| 388.3 | 482.3 | 439.5 | 449.5 NM_001042646.1 |
| 153.6 | 212.9 | 209.6 | 242.9 NM_001042646.1 |
| 314.3 | 320.8 | 259.5 | 252.1 NM_015049.1 |
| 6089.5 | 4393.2 | 4008.6 | 4077.7 NM_014294.3 |
| 87.3 | 91.3 | 84.3 | 84.9 NM_152402.1 |
| 411 | 417.9 | 402.2 | 336.7 NM_012288.3 |
| 546.4 | 449 | 394.2 | 293.6 NM_016292.1 |
| 680 | 444.1 | 465.2 | 298.1 NM_021210.2 |
| 114.3 | 113.1 | 111.3 | 113.3 NM_001011658.1 |
| 559.7 | 540.3 | 458 | 391.9 NM_014563.3 |
| 95.4 | 97.5 | 87.7 | 89.9 NM_014563.3 |
| 904.9 | 964.1 | 1009.2 | 569.7 NM_014408.3 |
| 1542.3 | 753 | 708.9 | 530.4 NM_016146.1 |
| 894.4 | 667.6 | 673.7 | 487.5 NM_001042462.1 |
| 223.8 | 197 | 249.1 | 167.3 NM_024108.1 |
| 120.4 | 109.5 | 92.1 | 113.8 NM_177452.2 |
| 102.3 | 99 | 84.3 | 95.8 NM_001079537.1 |
| 141.3 | 120 | 115.7 | 119.7 NM_001079537.1 |
| 98.5 | 89.6 | 93.3 | 100.3 NM_016388.2 |
| 114.9 | 109.9 | 111.8 | 100.4 NM_176083.2 |
| 100 | 91.5 | 88.3 | 83.6 NM_006073.1 |
| 86.3 | 85.6 | 86.1 | 92.6 NM_007180.1 |
| 82.2 | 92.4 | 86.9 | 80.6 NM_018643.2 |
| 122.1 | 125.5 | 114.9 | 107.9 NM_018965.1 |

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| 94.1 | 98.6 | 83.9 | 88.3 NM_178174.2 |
| 99.5 | 99.7 | 92.4 | 93.6 NM_024807.1 |
| 75.9 | 80 | 77.6 | 80 NR_002794.1 |
| 114.4 | 106.8 | 100.8 | 109 NM_198153.1 |
| 193.5 | 187.3 | 189.8 | 153.2 NM_033501.1 |
| 88.1 | 77.2 | 83.1 | 80.1 NM_033502.1 |
| 90.6 | 95.1 | 83.3 | 84.6 NM_033627.3 |
| 441.1 | 352.2 | 325.8 | 256.8 NM_032166.2 |
| 351.5 | 287.5 | 277.8 | 206.3 NM_032166.2 |
| 101.9 | 98.3 | 79 | 90.1 NM_016381.2 |
| 87.2 | 84.5 | 81.7 | 79.3 NM_080701.3 |
| 2218.9 | 1821.5 | 1495.1 | 969.4 NM_004275.3 |
| 766.3 | 737.2 | 692.6 | 456.1 NM_032286.2 |
| 88.5 | 78 | 79.5 | 74.3 NM_007117.1 |
| 104.1 | 107.5 | 104.1 | 107.1 NM_013381.1 |
| 80.9 | 89.5 | 84.5 | 81.1 NM_003301.1 |
| 98.9 | 89.7 | 98.7 | 103.6 NM_207111.2 |
| 708.7 | 626.6 | 682.7 | 395.1 NM_019011.4 |
| 355.4 | 312.8 | 265.2 | 239.2 NM_016399.2 |
| 253.1 | 173.7 | 174.6 | 154.6 NM_025195.2 |
| 133.4 | 164.9 | 135.3 | 128.1 NM_021643.1 |
| 794.1 | 613.2 | 660.8 | 356.6 NM_021158.3 |
| 77.3 | 84.9 | 86.3 | 81.2 NM_006778.2 |
| 86.7 | 90.7 | 76.8 | 80.8 NM_006778.2 |
| 96 | 83.6 | 93.8 | 88.4 NM_052828.1 |
| 200.8 | 158.3 | 164.3 | 120.6 NM_145214.2 |
| 466.7 | 517.4 | 619.5 | 608 NM_001007278.1 |
| 221.4 | 235.6 | 188.1 | 214.6 NM_001007278.1 |
| 351.3 | 534 | 721.7 | 544.9 NM_001007278.1 |
| 90.8 | 96.1 | 85.1 | 88.7 NM_033221.1 |
| 86.3 | 93 | 88.2 | 84.4 NM_033220.1 |
| 113.8 | 97.6 | 92 | 103.8 NM_014788.2 |
| 97.4 | 97.7 | 87.6 | 99.9 NM_033220.1 |
| 91.1 | 83.2 | 86.9 | 86.2 NM_052812.1 |
| 75.3 | 69.3 | 73 | 83.9 NM_033229.1 |
| 88.8 | 86.2 | 91.4 | 76.9 NM_052812.1 |
| 100.3 | 98.3 | 86.4 | 80.7 NM_006470.3 |
| 79.5 | 88.7 | 78 | 88.4 NM_001037330.1 |
| 88.9 | 92.8 | 93 | 88 NM_016102.2 |
| 84.9 | 82 | 79.6 | 81.1 NM_016102.2 |
| 93.6 | 111.7 | 100.7 | 107.9 NM_015271.2 |
| 366 | 313.9 | 263.6 | 292.4 NM_003141.3 |
| 122.3 | 138.2 | 117.1 | 125.8 NM_006074.2 |
| 232.9 | 203.4 | 234.9 | 193.9 NM_001656.3 |
| 91.7 | 92.8 | 90.3 | 83.6 NM_033227.2 |
| 135.6 | 200 | 164.2 | 180.5 NM_003852.3 |
| 90.1 | 92.6 | 88.6 | 100.8 NM_015905.2 |
| 614 | 811.2 | 631.8 | 828.2 NM_015905.2 |
| 692.3 | 651.7 | 572.6 | 524.9 NM_005082.4 |
| 143.2 | 139.7 | 109 | 118.1 NM_003449.3 |

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| 686.8 | 426.2 | 327.2 | 317.5 NM_005762.2 |
| 78.7 | 78.1 | 82.8 | 80.4 NM_058193.1 |
| 112.7 | 117.2 | 112.7 | 108.6 NM_012101.2 |
| 102.1 | 91.9 | 94.7 | 93.2 NM_006458.2 |
| 87 | 83.7 | 74.7 | 87.7 NM_006458.2 |
| 84.3 | 88.9 | 83.2 | 87.4 NM_052816.2 |
| 78.8 | 86 | 84.2 | 85.2 NM_007028.3 |
| 311.6 | 254.6 | 200.5 | 180.2 NM_012210.2 |
| 501.2 | 376.5 | 343.1 | 251.9 NM_033020.2 |
| 1116.5 | 933.7 | 786.9 | 683.2 NM_033020.2 |
| 87.7 | 86.4 | 79.9 | 78.4 NM_015906.3 |
| 90.8 | 86.8 | 95.9 | 92.9 NM_001003827.1 |
| 90.6 | 91.1 | 82.2 | 90.5 NM_130389.2 |
| 97.6 | 87.6 | 83.9 | 92.7 NM_001003827.1 |
| 83.4 | 91.2 | 78.4 | 87 NM_130390.1 |
| 160.3 | 124.2 | 105.5 | 113.8 NM_171982.2 |
| 87.2 | 97.8 | 91.3 | 87.6 NM_001017398.1 |
| 109.3 | 115.5 | 111 | 109 NM_018700.3 |
| 90.7 | 113.1 | 92.7 | 99 NM_001017397.1 |
| 98.4 | 93.8 | 99.3 | 90.4 NM_001017397.1 |
| 108.8 | 108.1 | 104 | 111.2 NM_001005207.1 |
| 197.5 | 159.8 | 157.3 | 146.5 NM_015294.2 |
| 140.2 | 175.7 | 156.9 | 166.1 NM_006355.2 |
| 90.2 | 87.1 | 86.6 | 87.4 NM_021253.2 |
| 188.9 | 211.3 | 192.7 | 161.5 NM_172016.1 |
| 116 | 120.5 | 105.5 | 116.5 NM_172016.1 |
| 1058.1 | 780.5 | 750.3 | 660.7 NM_033091.1 |
| 131 | 106.9 | 90.6 | 93.5 NM_033017.2 |
| 88 | 82.9 | 85.8 | 95 NM_138700.2 |
| 313.2 | 358.6 | 291.7 | 255.4 NM_201627.1 |
| 107.5 | 115 | 109.4 | 118.8 NM_033549.3 |
| 90 | 95 | 82.4 | 81.1 NM_152616.3 |
| 79.4 | 77.3 | 75.7 | 90.4 NM_138800.1 |
| 1113.8 | 1777 | 1308.8 | 1134.6 NM_017583.3 |
| 264.1 | 176.3 | 177.4 | 173.5 NM_025188.2 |
| 133.5 | 105.1 | 104.5 | 119.7 NM_025058.3 |
| 110.8 | 83.1 | 86.7 | 89.9 NM_033452.2 |
| 90.4 | 83 | 85.4 | 94.4 NM_024114.2 |
| 138.2 | 131.7 | 124.8 | 114.8 NM_020358.2 |
| 236.1 | 259.7 | 235.1 | 192.7 NM_033034.1 |
| 88.7 | 83.3 | 89.7 | 90 NM_033092.1 |
| 128.5 | 122.9 | 145.6 | 108.4 NM_033093.1 |
| 96.6 | 91.6 | 88.6 | 87.2 NM_178125.2 |
| 101.8 | 98.9 | 101.3 | 92.3 NM_032681.1 |
| 155.9 | 183.6 | 170.3 | 186.7 NM_032765.2 |
| 100.4 | 95.9 | 91.2 | 90.5 NM_187841.1 |
| 90.9 | 82.2 | 81.9 | 78 NM_187841.1 |
| 90.8 | 90.5 | 91.1 | 91.9 NM_032546.2 |
| 89.1 | 91.3 | 69.9 | 82.8 NM_184086.1 |
| 83.4 | 86.2 | 81.3 | 92.4 NM_033058.2 |

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| 81.4 | 87.3 | 75.2 | 83.9 NM_184086.1 |
| 228.1 | 282.1 | 220.3 | 294.8 NM_030961.1 |
| 140.5 | 158.7 | 132.8 | 126.2 NM_015431.2 |
| 98.5 | 91.1 | 83.4 | 92.1 NM_173084.1 |
| 86.3 | 79.8 | 79.1 | 82.5 NM_058166.3 |
| 108.4 | 110.5 | 113.8 | 107.3 NM_001003818.1 |
| 79.4 | 79 | 85.4 | 90.3 NM_152620.2 |
| 86.9 | 91.5 | 82.2 | 80.5 NM_018207.1 |
| 93.3 | 87.3 | 78.6 | 88.1 NM_032588.2 |
| 93.9 | 94.8 | 80.7 | 90.2 NM_001004342.2 |
| 338.2 | 270.3 | 261.3 | 216.5 NM_018073.5 |
| 94.3 | 90.4 | 78.4 | 87.6 NM_080745.3 |
| 91.3 | 92.7 | 81.5 | 87 NM_001003819.1 |
| 87.1 | 86.9 | 90.3 | 90.1 NM_203296.1 |
| 91.6 | 93.1 | 97.1 | 83.4 NM_203297.1 |
| 102.2 | 86.5 | 86.4 | 95 NM_033342.2 |
| 90.4 | 90.9 | 86.4 | 83.8 NM_001039111.1 |
| 91.7 | 86.5 | 86.2 | 100.1 NM_198853.1 |
| 570.2 | 446.9 | 420.2 | 271.8 NM_030912.1 |
| 92.2 | 97.6 | 95.8 | 82.8 NM_052978.3 |
| 169.2 | 119.2 | 115 | 118.5 NM_015163.4 |
| 103.6 | 97.8 | 91.1 | 100.9 NM_052978.3 |
| 94.2 | 94.8 | 92 | 96.8 NM_007118.2 |
| 94.5 | 88.2 | 85.9 | 91.7 NM_007032.5 |
| 176.7 | 161.5 | 150.4 | 155 NM_004240.2 |
| 250.9 | 365 | 346.3 | 258.3 NM_004239.1 |
| 543.2 | 564.9 | 435.9 | 542.5 NM_004238.1 |
| 1163.6 | 906.9 | 691.5 | 486.1 NM_004237.2 |
| 385.9 | 488.7 | 402.1 | 315.8 NM_016213.3 |
| 1621.8 | 810.2 | 766.7 | 518.1 NM_003302.1 |
| 768.5 | 615.9 | 522.8 | 492 NM_017646.3 |
| 379.1 | 329.7 | 348 | 199 NM_017722.2 |
| 227.8 | 167.4 | 145.1 | 131.6 NM_017956.1 |
| 5894.5 | 3588.7 | 3004.8 | 2788.7 NM_020810.1 |
| 126.8 | 123.1 | 126.5 | 117.9 NM_001008571.1 |
| 77.7 | 83.2 | 81 | 95.7 NM_016000.2 |
| 380.4 | 214.2 | 174.8 | 204.9 NM_182916.1 |
| 102 | 90 | 88.3 | 95.9 NM_016000.2 |
| 162.3 | 215 | 244.3 | 157.2 NM_001039705.1 |
| 104.9 | 118.6 | 124.6 | 104.1 NM_177557.1 |
| 149.2 | 185 | 179.8 | 142.2 NM_001039705.1 |
| 600.9 | 288.8 | 285.9 | 223.9 NM_005480.2 |
| 892.4 | 660 | 662.8 | 628.5 NM_001042369.1 |
| 113.2 | 92.4 | 95.3 | 103 NM_004600.3 |
| 424.2 | 310.8 | 336.7 | 231.9 NM_001042370.1 |
| 1883.6 | 1549.6 | 1381 | 1335.5 NM_001042369.1 |
| 85.2 | 84.3 | 88.3 | 93 NM_007332.1 |
| 94.8 | 85.3 | 90.7 | 91.6 NM_003304.3 |
| 151.9 | 103.7 | 134.5 | 109.2 NR_002720.1 |
| 90 | 92 | 92.8 | 88.4 NM_003305.1 |

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| 100.8 | 92.3 | 86.8 | 81.2 NM_016179.1 |
| 346.9 | 340.8 | 331 | 229.3 NM_015638.2 |
| 907.5 | 821.3 | 786.3 | 672.7 NM_015638.2 |
| 84.7 | 75.1 | 81.8 | 82 NM_012471.1 |
| 91.8 | 92.9 | 91.9 | 88.2 NM_004621.3 |
| 95.9 | 94 | 93.6 | 91.9 NM_020389.1 |
| 80.2 | 71.2 | 79.2 | 87.7 NM_002420.3 |
| 112.3 | 136.3 | 146.8 | 111.4 NM_001001188.3 |
| 103.1 | 103.9 | 113.5 | 102.2 NM_001001188.3 |
| 82.4 | 81.3 | 86.6 | 82.3 NM_001007471.1 |
| 83.9 | 87.3 | 78.6 | 82.3 NM_001007470.1 |
| 538.1 | 286.7 | 305.6 | 168.7 NM_017636.2 |
| 75.7 | 81.5 | 80.5 | 84.3 NM_014555.2 |
| 92.4 | 94 | 84.3 | 90.8 NM_017662.3 |
| 90.6 | 109.2 | 96.3 | 99.5 NM_024080.4 |
| 102.3 | 95.1 | 85.2 | 92.5 NM_014112.1 |
| 76 | 76.1 | 76.1 | 81.4 NM_031472.2 |
| 1288.5 | 867.9 | 950.6 | 437.2 NM_031472.2 |
| 103.2 | 115.2 | 97.9 | 96.6 NM_080705.2 |
| 82.1 | 82.9 | 87.6 | 77.3 NM_080706.2 |
| 94.7 | 82.1 | 81.3 | 90.5 NM_080704.2 |
| 82 | 92.8 | 87.4 | 88.9 NM_018727.4 |
| 86.2 | 92.2 | 80.6 | 86.3 NM_080705.2 |
| 361.5 | 392.1 | 344.7 | 280.1 NM_016113.3 |
| 100.7 | 106.1 | 97.5 | 95.1 NM_145068.2 |
| 90.3 | 93.3 | 76.8 | 82.3 NM_021625.3 |
| 92.9 | 103.1 | 91.9 | 106.4 NM_147204.1 |
| 90 | 96.3 | 90.8 | 91.9 NM_019841.4 |
| 100.7 | 94.9 | 97.2 | 90.3 NM_018646.2 |
| 89.6 | 94.1 | 86.4 | 80.1 NM_018646.2 |
| 90.6 | 77.1 | 77.5 | 89.6 NM_018646.2 |
| 1018.6 | 1865.8 | 1963.9 | 1001.2 NM_003496.1 |
| 124.8 | 127.6 | 115.1 | 111.2 NM_017846.3 |
| 95 | 94 | 84.4 | 93.8 NR_003109.1 |
| 112.8 | 108.5 | 96.1 | 100.5 NM_139169.3 |
| 125.8 | 99.7 | 104.8 | 115.4 NM_015679.1 |
| 91 | 87.6 | 88.3 | 96.3 NM_001001317.1 |
| 82.5 | 87 | 72.3 | 87.8 NR_001296.2 |
| 91.2 | 86.1 | 83.7 | 94.7 NM_001008567.1 |
| 206.2 | 274.3 | 215.4 | 175.6 NM_000368.3 |
| 90.6 | 103.9 | 97.1 | 92.8 NM_001008567.1 |
| 128.5 | 121 | 123.9 | 120.1 NM_021055.1 |
| 93.9 | 90.3 | 91.9 | 93.3 NM_000548.2 |
| 125 | 116.3 | 143.6 | 121.8 NM_183422.1 |
| 128 | 169.6 | 160.5 | 155.7 NM_006022.2 |
| 94.7 | 105.1 | 98.8 | 96.7 NM_183422.1 |
| 233.1 | 209.8 | 208.7 | 243.6 NM_014779.2 |
| 99.8 | 101.2 | 85.7 | 83.3 NM_004089.3 |
| 212.2 | 218.1 | 237.5 | 192.8 NM_004089.3 |
| 199.3 | 185.9 | 203.8 | 190.1 NM_004089.3 |

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| 81.3 | 89.6 | 81.2 | 81 NM_001015881.1 |
| 84.9 | 85.2 | 85.7 | 86.8 NM_198057.2 |
| 171.7 | 183.1 | 181.9 | 200.4 NM_030935.3 |
| 104.5 | 84.2 | 86.3 | 87.9 NM_033051.2 |
| 565.8 | 480.8 | 478.5 | 378.2 NM_025265.2 |
| 743.1 | 714.5 | 784.4 | 536.2 NM_001077446.1 |
| 492.8 | 438.8 | 378.3 | 365.4 NM_024075.1 |
| 251.2 | 228.3 | 211.7 | 213.4 NM_207346.1 |
| 189.4 | 211.7 | 188 | 146.4 NM_005726.2 |
| 1663.1 | 1070.2 | 867 | 989.5 NM_006292.2 |
| 118.5 | 125.9 | 115.8 | 135.1 NM_025244.1 |
| 101.5 | 100.9 | 109 | 96.3 NM_182911.1 |
| 94.5 | 92 | 85.4 | 101.7 NM_025244.1 |
| 93 | 82.3 | 89.3 | 84.2 NM_152762.1 |
| 92 | 98 | 87.1 | 92.6 NM_052933.2 |
| 321.1 | 168 | 153.5 | 158.2 NM_018718.1 |
| 98.9 | 89.9 | 84.4 | 84.1 NM_080860.2 |
| 87.7 | 83.4 | 91.7 | 88.4 NM_000549.2 |
| 95.2 | 89.8 | 87.4 | 88.8 NM_000369.2 |
| 81.1 | 87.8 | 83.2 | 80.7 NM_001018036.1 |
| 83.5 | 84.6 | 84.7 | 83.4 NM_001018036.1 |
| 87.9 | 89.9 | 86.1 | 94.9 NM_021733.1 |
| 101.7 | 96.4 | 92.6 | 99.9 NM_138551.2 |
| 87.4 | 86.7 | 84.7 | 94.8 NM_033035.3 |
| 97.6 | 105.8 | 89.2 | 101.4 NM_004622.2 |
| 100.3 | 84.8 | 83.4 | 88.1 NM_145003.1 |
| 133.2 | 108.7 | 123.2 | 152.3 NM_005999.2 |
| 77.9 | 87.5 | 82.5 | 82.8 NM_018430.1 |
| 98.6 | 82 | 83.8 | 83.5 NM_013270.2 |
| 100.9 | 115.5 | 119.5 | 106.6 NM_005727.2 |
| 92.1 | 122.2 | 117.9 | 105.6 NM_031945.2 |
| 96.1 | 88 | 81.1 | 88 XM_497334.2 |
| 75.5 | 85.7 | 78.6 | 78.7 NM_001080509.1 |
| 79.2 | 85 | 82.8 | 87.5 NM_012338.3 |
| 92.8 | 84.5 | 82.9 | 87.2 NM_014399.3 |
| 105.9 | 106.4 | 97.8 | 93.8 NM_030927.1 |
| 99.4 | 97.4 | 93.8 | 105.4 NM_012339.3 |
| 94.8 | 90.3 | 93.4 | 93.3 NM_012466.2 |
| 150.3 | 141 | 130 | 108.4 NM_130465.3 |
| 1074.2 | 977 | 1062.6 | 498 NM_012171.1 |
| 105.4 | 97 | 102.9 | 99.9 NM_001031730.1 |
| 103.2 | 91.8 | 102.4 | 89.6 NM_130783.2 |
| 90.2 | 84.5 | 88.4 | 76 NM_130783.2 |
| 91.1 | 80.4 | 78.1 | 85.3 NM_005725.3 |
| 781.1 | 541.3 | 463.8 | 390.5 NM_198902.1 |
| 1408 | 775.4 | 709.4 | 648 NM_005724.4 |
| 420.3 | 442.6 | 418.6 | 287.2 NM_005981.3 |
| 566.2 | 1277.8 | 1606.3 | 729.2 NM_139022.2 |
| 172.8 | 326.5 | 315.6 | 266.6 NM_005705.4 |
| 204.5 | 299.7 | 359.1 | 309.5 NM_139022.2 |

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| 141.4 | 151.6 | 148.9 | 111.5 NM_178562.2 |
| 150.1 | 131.9 | 147.2 | 104.8 NM_001025235.1 |
| 89.9 | 83 | 79.3 | 81.8 NM_001025237.1 |
| 126.5 | 115.5 | 125.9 | 116.9 NM_001025238.1 |
| 78.5 | 83.7 | 81.3 | 65 NM_001025234.1 |
| 205 | 168.2 | 159.6 | 130.7 NM_005723.2 |
| 102.7 | 107 | 114.4 | 94.1 NM_003270.2 |
| 86.2 | 78.4 | 75 | 72.5 NM_004615.2 |
| 78.4 | 98.8 | 84.3 | 83.3 NM_004616.2 |
| 131.2 | 99.5 | 103.3 | 105.2 NM_006675.3 |
| 3509.9 | 1714.1 | 1717.1 | 1428.9 NM_000714.4 |
| 697.3 | 395.8 | 423.4 | 383.4 NM_007311.3 |
| 20449.1 | 12233.3 | 12737.6 | 7081.1 NM_000714.4 |
| 77.2 | 77.6 | 67.6 | 74.9 NM_003308.2 |
| 85.6 | 89.1 | 88.8 | 87.5 NM_022573.2 |
| 741.8 | 790.6 | 631 | 810.8 NM_003309.1 |
| 90 | 89.8 | 91.8 | 91.5 NM_022117.1 |
| 106.9 | 104.3 | 96.7 | 99.6 NM_022117.1 |
| 95.7 | 93.6 | 77.2 | 90.1 NM_022117.1 |
| 132.6 | 125.3 | 134 | 118.1 NM_022117.1 |
| 83.3 | 85.8 | 86.7 | 93.4 NR_002781.1 |
| 110.8 | 103.3 | 106.2 | 111.2 NM_021648.4 |
| 453.6 | 258.3 | 229.8 | 208.5 NM_033512.2 |
| 91 | 91.1 | 89.4 | 84.6 NM_001003937.1 |
| 79.5 | 82.8 | 79.7 | 82.5 NM_018128.4 |
| 136.8 | 180.6 | 195 | 126.7 NM_025008.2 |
| 93.6 | 105.1 | 102.2 | 96.1 NM_019032.3 |
| 125.7 | 154 | 142.3 | 124.9 NM_025008.2 |
| 766.6 | 727.9 | 646.8 | 450.6 NM_003310.1 |
| 425.7 | 429.1 | 428.5 | 226.1 NM_005706.2 |
| 94.4 | 96.3 | 92.8 | 83.7 NM_032028.2 |
| 91.7 | 90.1 | 84.1 | 89.7 NM_053006.3 |
| 102.5 | 102.4 | 100.1 | 98.2 NM_052841.3 |
| 93.6 | 85.7 | 96.9 | 97.8 NM_174944.2 |
| 2418.5 | 1957.1 | 2036.8 | 995.2 NM_003312.4 |
| 219.5 | 174 | 154.8 | 145.5 NM_003313.2 |
| 85.5 | 86.9 | 79.9 | 86.2 NM_032538.1 |
| 96 | 92.1 | 98.8 | 97 NM_173500.2 |
| 690.4 | 714.9 | 562.9 | 479.5 NM_003314.1 |
| 105.2 | 98.4 | 95.4 | 106.8 NM_175605.2 |
| 175.5 | 186 | 160.6 | 173.5 NM_175605.2 |
| 137.8 | 125.5 | 108.2 | 112.6 NM_017868.3 |
| 1136.8 | 1109.6 | 875 | 722.2 XM_939087.1 |
| 111.9 | 108.6 | 109 | 106.4 NM_024525.2 |
| 375.6 | 369.3 | 297.7 | 258.6 NM_024525.2 |
| 313 | 325.4 | 274.6 | 349.3 NM_133462.1 |
| 263.9 | 304.3 | 242.7 | 274.8 NM_133462.1 |
| 694.5 | 645.8 | 595.1 | 493.3 NM_016030.5 |
| 120.1 | 120.7 | 121.5 | 101.1 NM_144965.1 |
| 342.9 | 475.3 | 444 | 385.2 NM_018259.3 |

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| 96.5 | 104.8 | 83.6 | 107.1 NM_145170.2 |
| 573.1 | 691.4 | 544.2 | 678.8 NM_017775.2 |
| 91.4 | 88.7 | 80.3 | 102 NM_145755.1 |
| 80.6 | 92.7 | 76.4 | 84.8 NM_024753.3 |
| 80.5 | 79.7 | 87.9 | 88.1 NM_017904.1 |
| 106.3 | 101.9 | 107.6 | 96.1 NM_001040658.1 |
| 346.8 | 288.5 | 269.1 | 222.3 NM_022905.3 |
| 98.8 | 91.5 | 93.5 | 97.6 NM_031421.1 |
| 1028.2 | 1438.4 | 1100.7 | 1120.8 NM_003316.3 |
| 85.2 | 83.2 | 77.5 | 84.7 NM_003316.3 |
| 170.6 | 187.1 | 181.2 | 179.9 NM_001008237.1 |
| 1429.8 | 969.5 | 933.2 | 741.4 NM_004623.2 |
| 279.8 | 199.3 | 205.5 | 167 NM_138376.1 |
| 86.6 | 83.7 | 69.2 | 89.3 NM_001007795.1 |
| 213.6 | 255.7 | 235 | 232 NM_020458.1 |
| 103.2 | 102.7 | 99.6 | 98.1 NM_001010854.1 |
| 92.6 | 110.1 | 108 | 108.5 NM_198309.2 |
| 192 | 166.9 | 169.8 | 162.3 NM_144596.2 |
| 92.6 | 92.4 | 86.4 | 91.2 NM_152479.3 |
| 228.7 | 194.5 | 183.9 | 156.1 NM_173810.3 |
| 92.4 | 82.3 | 85.8 | 84.3 NM_007344.2 |
| 1483 | 1109.7 | 1058.4 | 670.4 NM_003594.3 |
| 1359.5 | 770.9 | 699.9 | 613.6 NM_003318.3 |
| 237.8 | 218 | 240.1 | 162 NM_153712.3 |
| 86.9 | 88.1 | 79.3 | 83.6 NM_001008572.1 |
| 107.9 | 109.1 | 106.8 | 105.5 NM_001008572.1 |
| 117.9 | 122.8 | 122 | 104.3 NM_012263.3 |
| 83.1 | 87.4 | 83.4 | 86.2 NM_153254.1 |
| 598.5 | 549 | 464.9 | 306.4 NM_015140.2 |
| 85.4 | 77.6 | 84.1 | 85.4 NM_001029964.2 |
| 82.4 | 78.1 | 66.3 | 84.8 NM_031949.4 |
| 243.6 | 332.8 | 334.9 | 321.1 NM_015644.2 |
| 101.5 | 102.5 | 96.8 | 100.6 NM_001025930.1 |
| 141.1 | 158.7 | 150.6 | 139 NM_014640.2 |
| 219.8 | 205.4 | 212.2 | 134.4 NM_015072.3 |
| 99.2 | 97.1 | 88.6 | 96 NM_173623.1 |
| 128.2 | 111.3 | 112.3 | 115.5 NM_024686.3 |
| 87.2 | 83.5 | 83.3 | 82.4 NM_001008409.1 |
| 104.2 | 102.1 | 90.9 | 95.8 NM_001080209.1 |
| 86.3 | 79.4 | 70.3 | 79.7 NM_001003682.1 |
| 88.9 | 79.7 | 91.4 | 85.3 NM_133432.1 |
| 96.4 | 88.7 | 82.9 | 85.3 NM_133379.1 |
| 99.2 | 96.6 | 87.2 | 97.6 NM_133378.2 |
| 88.6 | 90.4 | 81.4 | 89.5 NM_003319.3 |
| 97.8 | 87.6 | 91.9 | 92.4 NM_000370.2 |
| 111.6 | 97.1 | 106.1 | 102.2 NM_000371.1 |
| 88.7 | 90.7 | 80.3 | 93.6 NM_016614.2 |
| 85.1 | 77.1 | 83.9 | 80 NR_001538.1 |
| 95.5 | 91.9 | 97.1 | 82.2 NR_001542.1 |
| 105.8 | 111 | 110.6 | 99.3 NR_001548.1 |

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| 85.9 | 84.7 | 77.7 | 76.3 NR_001551.1 |
| 82.2 | 84.9 | 82.6 | 92.3 NR_001537.1 |
| 92.1 | 88.6 | 93.4 | 83.4 NR_001543.1 |
| 87.1 | 81.3 | 79.2 | 77.1 NR_001526.1 |
| 103.1 | 114.4 | 96.5 | 104.1 NR_001549.1 |
| 85.2 | 81.5 | 77.6 | 75 NR_001536.1 |
| 91.6 | 87 | 95.2 | 91.5 NR_001535.1 |
| 87.7 | 94.3 | 95.7 | 89 NR_001541.1 |
| 92.7 | 85.6 | 98.8 | 86.9 NR_001527.1 |
| 95.3 | 73 | 82.9 | 84.5 NR_002175.2 |
| 80.7 | 82.8 | 83.7 | 92.2 NR_001534.1 |
| 87.5 | 91.5 | 82.1 | 86.2 NR_001533.1 |
| 94.7 | 87.5 | 88.5 | 93.2 NR_002159.1 |
| 80.9 | 83.1 | 79.2 | 82.8 NM_020659.2 |
| 74.6 | 83.9 | 74 | 83.8 NM_001005367.1 |
| 94.1 | 152.4 | 156.1 | 113.6 NM_052869.1 |
| 110.1 | 106 | 118.4 | 108.9 NM_052869.1 |
| 93 | 96.7 | 89.4 | 94.4 NM_032646.5 |
| 386.3 | 451.4 | 392.1 | 392.8 NM_025250.2 |
| 97.2 | 87.2 | 85.3 | 93.2 NM_177972.1 |
| 88.7 | 87.8 | 81.9 | 86.8 NM_003320.3 |
| 96 | 81.5 | 75.6 | 77.1 NM_177972.1 |
| 507 | 282.7 | 295.3 | 186.1 NM_006000.1 |
| 7851.1 | 4790.7 | 4429.6 | 2995.4 NM_006009.2 |
| 94.7 | 90.8 | 83.4 | 92.1 NM_079836.1 |
| 82 | 87.3 | 83.7 | 90 NM_080386.1 |
| 84.1 | 82.8 | 81.2 | 86.3 NM_025019.1 |
| 15525.9 | 7284.9 | 6794.9 | 5499.5 NM_032704.2 |
| 79.1 | 87.7 | 84.8 | 88 NM_018943.1 |
| 86.6 | 104.8 | 86 | 79.9 NM_024803.1 |
| 88.3 | 86.2 | 85.4 | 90.9 NM_001069.1 |
| 6557.1 | 4711.7 | 3888.5 | 2690.4 NM_178014.2 |
| 85.9 | 78.5 | 88 | 84.1 NM_001069.2 |
| 92.2 | 88 | 79.1 | 102.4 NM_178012.3 |
| 2837.9 | 1284.1 | 1167.7 | 768.3 NM_006088.5 |
| 166.5 | 120.7 | 113.9 | 98.2 NM_006086.2 |
| 112.5 | 102.6 | 99.7 | 100.5 NM_006087.2 |
| 152.5 | 130.5 | 105 | 123.2 NM_020040.3 |
| 576.8 | 377.6 | 324.4 | 233.5 NM_032525.1 |
| 1107.6 | 770.7 | 601.6 | 584.6 XM_940079.1 |
| 93.8 | 90.6 | 86.2 | 96.1 NM_177987.1 |
| 110.2 | 100.4 | 91.2 | 104.3 NM_016261.2 |
| 99.6 | 107.5 | 84.6 | 106 NM_016262.3 |
| 103.1 | 87.2 | 81.3 | 85.2 XM_944510.1 |
| 2088.3 | 1644 | 1481.5 | 766.2 NM_001070.3 |
| 1130.1 | 801.6 | 678.4 | 642.2 NM_001070.3 |
| 240.1 | 232.7 | 277.8 | 182.6 NM_016437.1 |
| 483.4 | 402.5 | 433.1 | 261.5 NM_006659.1 |
| 120.7 | 112.8 | 110.9 | 105.1 NM_006322.3 |
| 188.5 | 187.8 | 165.8 | 133.6 NM_052903.2 |

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| 124.5 | 111.1 | 110.7 | 118.7 NM_020461.3 |
| 144.5 | 192 | 186.7 | 169.9 NM_020461.3 |
| 88.5 | 88.8 | 77.6 | 100 NM_001008658.1 |
| 1386.7 | 1039.7 | 856.2 | 789.7 NM_003321.3 |
| 116.1 | 133.9 | 117.7 | 113.9 NM_020127.1 |
| 94 | 90.3 | 80.3 | 83.3 NM_003322.2 |
| 88.8 | 88.4 | 84.1 | 91.6 NM_003323.1 |
| 117.8 | 119.8 | 112.6 | 111.5 NM_003324.3 |
| 150.8 | 180.6 | 163.6 | 169.3 NM_020245.3 |
| 241.8 | 350.4 | 292.5 | 257.2 NM_020245.3 |
| 92.3 | 89.8 | 85 | 88.8 NM_020245.3 |
| 279.7 | 251.1 | 215.6 | 240.7 NM_001004125.1 |
| 180.2 | 150.3 | 132.9 | 131.8 NM_007275.1 |
| 81.9 | 87.8 | 85.1 | 89.1 NM_006765.2 |
| 87.1 | 84.8 | 77.1 | 83.9 NM_006765.2 |
| 662.7 | 579.3 | 692 | 363.5 NM_006545.4 |
| 85.8 | 92.3 | 83.6 | 84.2 NM_172367.1 |
| 426.1 | 422.2 | 379.9 | 301.9 NM_000474.3 |
| 197.7 | 142.3 | 124.2 | 128.2 NM_001002926.1 |
| 751.5 | 561.2 | 594.5 | 480.1 NM_020648.3 |
| 89.8 | 92.1 | 94.9 | 92.1 NM_003328.1 |
| 1158.3 | 1051.8 | 1082.2 | 593.7 NM_175852.3 |
| 93.9 | 94.9 | 89.8 | 90.4 NM_153235.2 |
| 6752.1 | 4743.4 | 3684.2 | 3989.4 NM_003329.2 |
| 20372.6 | 13912.2 | 11351.9 | 10254.4 NM_003329.1 |
| 101 | 89.1 | 82.1 | 95.2 NM_012473.3 |
| 2229.1 | 1420 | 1415 | 1038 NM_030755.3 |
| 354.3 | 377.1 | 313.9 | 536 NM_019022.3 |
| 204.2 | 202.8 | 200.3 | 177.6 NM_015914.5 |
| 4880.9 | 4360.8 | 3966.1 | 2897.5 NM_015913.2 |
| 271.1 | 252.7 | 210.3 | 243.4 NM_021156.2 |
| 1760.6 | 1322.2 | 1052.7 | 794.5 NM_015959.1 |
| 83.9 | 78.2 | 79.2 | 89.1 NM_016616.2 |
| 95.2 | 83.7 | 91.7 | 81.7 NM_015051.1 |
| 76.7 | 74.8 | 69.7 | 81.5 NM_022085.3 |
| 219.5 | 167.8 | 147 | 129.5 NM_022085.3 |
| 120.4 | 107.9 | 103.1 | 109.4 NM_030810.2 |
| 87 | 80.4 | 77.2 | 79.6 NM_178130.2 |
| 104.3 | 89.2 | 87.5 | 104.5 NM_001003936.1 |
| 327.3 | 239.9 | 248.1 | 251.4 NM_005783.3 |
| 445 | 508.5 | 726.5 | 366.3 NM_006472.1 |
| 202.4 | 175.7 | 162.3 | 170.3 NM_004786.1 |
| 1104.6 | 607.9 | 483.7 | 492.9 NM_006541.2 |
| 138.1 | 140.3 | 140 | 124.3 NM_006701.2 |
| 116.8 | 115.1 | 128.5 | 117.6 NM_017853.1 |
| 2854.3 | 1938.5 | 1898.2 | 1587.4 NM_032731.2 |
| 98.5 | 96.7 | 96.9 | 100.5 NM_138454.1 |
| 1900.8 | 1650.2 | 1330.6 | 1184.5 NM_003330.2 |
| 1034.1 | 582.7 | 476.6 | 454.1 NM_182743.1 |
| 330.9 | 286.4 | 300.6 | 167.8 NM_145748.1 |

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|---------|---------|---------|---------|----------------|
| 1923.8 | 1800.4 | 1871.2 | 848.6 | NM_003331.3 |
| 6084.7 | 4365.9 | 4044 | 2869.2 | NM_001071.1 |
| 99.7 | 94.8 | 82.1 | 92 | NM_000372.3 |
| 201.6 | 216.1 | 169 | 179.8 | NM_006293.2 |
| 95 | 76.9 | 83.3 | 84.1 | NR_002721.1 |
| 4887.4 | 7149.5 | 6183 | 5461.3 | NM_003332.2 |
| 81.3 | 89.5 | 77.2 | 85.7 | NM_000550.1 |
| 513.2 | 285.6 | 277 | 161.3 | NM_173555.1 |
| 115.9 | 103.1 | 101.4 | 89.6 | NM_173555.1 |
| 97.6 | 104.1 | 95.4 | 101.4 | NM_173555.1 |
| 292 | 276.2 | 264.7 | 203.5 | NM_180703.1 |
| 116.5 | 110.1 | 122.1 | 99.9 | NM_180699.1 |
| 797.9 | 638.6 | 613.7 | 500.1 | NM_001025204.1 |
| 186.6 | 197.7 | 177.9 | 163.1 | NM_001025203.1 |
| 340.6 | 418.8 | 468.3 | 263.6 | NM_005089.1 |
| 180.8 | 132.7 | 140.4 | 119.7 | NM_144987.1 |
| 115 | 111.5 | 110.8 | 102.2 | NM_144987.1 |
| 443.5 | 428.8 | 421.1 | 295.7 | NM_024660.1 |
| 2574.4 | 1974.6 | 1790.1 | 1159.2 | NM_007279.2 |
| 150.4 | 155 | 127.7 | 123.6 | NM_007279.2 |
| 91.7 | 86.7 | 85.3 | 96.8 | NM_018003.2 |
| 84.7 | 93.5 | 98.4 | 82.5 | NM_018003.2 |
| 98.6 | 88.2 | 87.1 | 79.7 | NM_001008224.1 |
| 231.8 | 173.1 | 154.5 | 147.3 | NM_003115.3 |
| 563.2 | 667.8 | 632.5 | 618.4 | NM_207309.1 |
| 97 | 89 | 83.2 | 99.6 | NM_005499.2 |
| 49767.3 | 32202.9 | 33736.3 | 23295.9 | NM_003333.2 |
| 295.4 | 278.4 | 261.5 | 172 | NM_003333.3 |
| 3211.7 | 2616.4 | 2272 | 1805.9 | NM_016172.2 |
| 633.7 | 533.5 | 422.8 | 363.2 | NM_016525.3 |
| 202.5 | 175.2 | 152.4 | 157.7 | NM_018449.2 |
| 313.1 | 473.2 | 381.5 | 372.6 | NM_014847.2 |
| 78.8 | 89.5 | 78 | 87.7 | NM_001001895.1 |
| 97.9 | 89.5 | 94.6 | 89.6 | NM_018961.2 |
| 21735.9 | 15468.9 | 16695.6 | 9759.2 | NM_018955.2 |
| 23082 | 17637.3 | 16153.5 | 12776.2 | NM_021009.3 |
| 24688.9 | 17963.8 | 14749 | 12831 | NM_021009.1 |
| 108.7 | 95.3 | 107.2 | 96 | NM_021009.3 |
| 89 | 80.7 | 79.9 | 83.2 | NM_006398.2 |
| 1161.5 | 1051.6 | 914.1 | 834.6 | NM_153280.1 |
| 153.9 | 144.9 | 105.4 | 129.4 | NM_153280.1 |
| 481.6 | 395 | 317 | 378.9 | NM_198195.1 |
| 120.7 | 105 | 91.9 | 120.5 | NM_198197.1 |
| 356.2 | 251.8 | 205.9 | 217.1 | NM_024818.2 |
| 95.8 | 83.2 | 84.8 | 84.6 | NM_198329.1 |
| 130.6 | 130.4 | 105.2 | 128 | NM_024818.2 |
| 526 | 518.4 | 568.8 | 298.1 | NM_003335.2 |
| 269.5 | 211.8 | 233.1 | 221.4 | NM_018227.3 |
| 88.6 | 95.1 | 85.7 | 87.8 | NM_181777.1 |
| 2147 | 1491.3 | 1101 | 1231.8 | NM_181762.1 |

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| 100.1 | 111.7 | 114.6 | 110.9 NM_003337.2 |
| 1704.7 | 618.7 | 628.9 | 466.7 NM_181800.1 |
| 1519.9 | 491.8 | 529.6 | 408.1 NM_181803.1 |
| 165.6 | 129.8 | 144.8 | 114.7 NM_181799.1 |
| 83 | 78.5 | 80.8 | 83.4 NM_181802.1 |
| 107.6 | 105.2 | 79.5 | 94.6 NM_003338.3 |
| 173.9 | 171 | 163.6 | 136.1 NM_003339.2 |
| 140.1 | 156.9 | 115.9 | 122.7 NM_003339.2 |
| 110 | 104.4 | 105.3 | 101.5 NM_181838.1 |
| 86.9 | 84.6 | 81.3 | 86.7 NM_181889.1 |
| 2180.4 | 1584.1 | 1205.9 | 1023.4 NM_181890.1 |
| 6434.7 | 4092.9 | 3674.1 | 2933.7 NM_181890.1 |
| 104.5 | 96.5 | 88.3 | 89.4 NM_181892.1 |
| 333.4 | 310.8 | 263 | 248.5 NM_015983.2 |
| 3302.2 | 2503.7 | 2206.5 | 2246.9 NM_003341.3 |
| 249.6 | 224.2 | 171.4 | 141.5 NM_003341.3 |
| 899.7 | 637.5 | 650.9 | 450.7 NM_152653.1 |
| 314.8 | 247.6 | 214.5 | 202.9 XM_944996.1 |
| 1651.6 | 1147.8 | 1011.1 | 1095.6 NM_006357.2 |
| 1512.2 | 1610.3 | 1664.2 | 883.3 NM_080678.1 |
| 347 | 258.6 | 227.4 | 195.7 NM_182682.2 |
| 369.8 | 272.1 | 236.5 | 212.5 NM_003342.4 |
| 1057.3 | 1119.2 | 1086.5 | 738 NM_182688.1 |
| 106.1 | 96.5 | 88.9 | 94.3 NM_182688.1 |
| 153.6 | 132.6 | 122.3 | 135.1 NM_003344.2 |
| 144.6 | 157.5 | 146.4 | 116.2 NM_182697.1 |
| 4817.9 | 2679 | 2771.1 | 1623.9 NM_003345.3 |
| 90.4 | 96.5 | 92.7 | 85.7 NM_194261.1 |
| 97 | 101.4 | 101.3 | 89.3 NM_194260.1 |
| 119.5 | 106.1 | 103.1 | 104 NM_194259.1 |
| 710.2 | 538.7 | 509.7 | 395 NM_016021.2 |
| 142 | 150.9 | 127.4 | 132.2 NM_194457.1 |
| 166.1 | 173.9 | 154.7 | 97.5 NM_194315.1 |
| 86.8 | 83.5 | 80.2 | 80.5 NM_194458.1 |
| 444.2 | 402.2 | 412.8 | 237.9 NM_003347.2 |
| 177.1 | 165 | 139.1 | 132.5 NM_198157.1 |
| 94.1 | 92.4 | 89.9 | 94 NM_198183.1 |
| 556 | 394 | 483.5 | 266.2 NM_004223.3 |
| 198 | 168 | 146.8 | 144.4 NM_004223.3 |
| 2812 | 2128.1 | 2219.5 | 1063.8 NM_003969.2 |
| 93.4 | 99.6 | 80.9 | 84.4 NR_002837.1 |
| 995 | 794.2 | 750.6 | 533.9 NM_003348.3 |
| 85.8 | 81.9 | 87.1 | 82.7 NM_001012989.1 |
| 250 | 258.2 | 250 | 182.6 NM_022066.2 |
| 607.1 | 560.6 | 496.9 | 339.1 NM_017582.5 |
| 529.8 | 340.6 | 393.7 | 354.6 NM_173469.1 |
| 95.9 | 91 | 78.8 | 90.4 NM_017811.3 |
| 96.1 | 83.8 | 78.1 | 83.9 NM_014501.2 |
| 822.5 | 522.8 | 379.5 | 489.7 NM_014176.1 |
| 112.1 | 101.5 | 100.2 | 90.3 NM_152489.1 |

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| 117.4 | 131.4 | 116.1 | 110.4 NM_001032288.1 |
| 92.3 | 94.5 | 86 | 92.4 NM_021988.3 |
| 76.4 | 87.7 | 92.7 | 83 NM_022442.3 |
| 83.9 | 87.9 | 84.6 | 93.5 NM_003350.2 |
| 97 | 81.7 | 89.8 | 89.7 NM_018299.2 |
| 156.6 | 160.4 | 137.5 | 131.1 XM_945544.1 |
| 365.2 | 394.6 | 314.7 | 362.8 NM_023079.2 |
| 123.4 | 111.7 | 104.5 | 115 NM_023079.2 |
| 799.5 | 788.2 | 684.2 | 574 NM_130839.1 |
| 575.5 | 469.2 | 398.6 | 385.3 NM_000462.2 |
| 94.2 | 109.6 | 95.2 | 93.3 NM_130839.1 |
| 108.4 | 112.3 | 91.4 | 112.1 NM_183414.1 |
| 1279.3 | 1377.2 | 1283.4 | 945.7 NM_014671.1 |
| 371.8 | 257.1 | 224.7 | 220.9 NM_004788.2 |
| 194.2 | 247.6 | 205.4 | 203.4 NM_006048.2 |
| 179.2 | 138.7 | 113.2 | 100.1 NM_013319.1 |
| 395.8 | 397.6 | 399 | 329 NM_007106.2 |
| 512.4 | 339.1 | 317.7 | 216.7 NM_014235.2 |
| 79 | 82 | 76.5 | 86.2 NM_203412.1 |
| 156.1 | 139.2 | 138.8 | 122.1 NM_024292.2 |
| 993.6 | 870 | 754.9 | 556.3 NM_001048241.1 |
| 211.9 | 222 | 211.9 | 169.4 NM_032907.3 |
| 352.2 | 312.3 | 306 | 254.6 NM_201265.1 |
| 463.2 | 395.7 | 399 | 448.7 NM_145049.1 |
| 90.2 | 89.8 | 76.8 | 97.9 NM_001079514.1 |
| 1408.4 | 1522.3 | 1504.1 | 858.3 NM_001079514.1 |
| 117.8 | 104.1 | 112.4 | 98.2 NM_014948.2 |
| 103.9 | 97.5 | 86.7 | 90.8 NM_014948.2 |
| 1814 | 1771.9 | 1347.7 | 1633.8 NM_014517.2 |
| 155.6 | 143.2 | 131 | 123 NM_019116.1 |
| 541.3 | 357.9 | 287.7 | 274.8 NM_053067.1 |
| 1983.3 | 1508.2 | 1185.1 | 1018.8 NM_013438.3 |
| 762.5 | 497 | 580.4 | 460.7 NM_013444.2 |
| 128.4 | 127.6 | 115.1 | 114.7 NM_017481.2 |
| 1063.8 | 682.7 | 620 | 385.4 NM_020131.3 |
| 165.4 | 174.3 | 131.4 | 144.5 NM_174916.1 |
| 518.6 | 581.1 | 586.1 | 434.4 NM_015255.1 |
| 242.5 | 227.4 | 187.6 | 214 NM_024954.3 |
| 157.4 | 140.7 | 111.9 | 116.1 NM_014233.1 |
| 81.7 | 98.1 | 80.9 | 90.6 NM_014233.1 |
| 177.3 | 180.9 | 158.7 | 136.8 NM_014233.1 |
| 85.2 | 94.4 | 86.3 | 77.4 NM_001076683.1 |
| 310.6 | 366.5 | 355.9 | 319.6 NM_025241.1 |
| 1599.8 | 1765.9 | 1492.9 | 1479.6 NM_014607.2 |
| 125.6 | 145.6 | 134.5 | 114.6 NM_152376.2 |
| 502.6 | 430.8 | 406.5 | 328.5 NM_181713.3 |
| 97.6 | 95.3 | 105.1 | 88.4 NM_183008.2 |
| 80.7 | 90.8 | 75.2 | 87 NM_145345.2 |
| 94.2 | 89.8 | 90.2 | 90.9 NM_183008.2 |
| 242.5 | 242.3 | 205.6 | 167.8 NM_183008.2 |

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| 88.1 | 90.9 | 72.6 | 86.4 NM_183008.2 |
| 138.9 | 110.9 | 104.9 | 119.1 NM_005671.1 |
| 2304.8 | 2383 | 2163.1 | 1498.6 NM_014613.1 |
| 88.8 | 90.3 | 87 | 82.2 NM_004181.3 |
| 1302.3 | 748.5 | 639 | 617 NM_006002.3 |
| 1510.5 | 1231.5 | 860.5 | 904 NM_015984.1 |
| 987.9 | 969.5 | 920.8 | 546.9 NM_017518.5 |
| 127 | 118.6 | 113.4 | 110.9 NM_031432.1 |
| 935 | 654.8 | 595.7 | 472.1 NM_012474.3 |
| 769.4 | 972.3 | 861.4 | 870.8 NM_017859.2 |
| 122.9 | 141.4 | 174.4 | 107.4 NM_003353.2 |
| 83.8 | 81.2 | 87.8 | 81.4 NM_033199.3 |
| 91.7 | 86.1 | 92.2 | 87.5 NM_053049.2 |
| 679.9 | 615.2 | 488.1 | 505.8 NM_003355.2 |
| 83.9 | 85.9 | 84.8 | 89.8 NM_022803.1 |
| 106.8 | 111.9 | 91.2 | 99 NM_003356.2 |
| 93.1 | 100.1 | 88.8 | 91 NM_022803.1 |
| 618.5 | 389.8 | 398.3 | 290.6 NM_001003684.1 |
| 354.3 | 360.5 | 315.8 | 313.9 NM_013387.3 |
| 330 | 409.5 | 441.4 | 264.3 NM_013387.3 |
| 121.2 | 108.1 | 106 | 106 NM_018314.2 |
| 102.7 | 95.4 | 93.6 | 93.1 NM_001040697.1 |
| 4657.6 | 2899.1 | 2471 | 2012.4 NM_016406.1 |
| 170.2 | 144.5 | 133.8 | 115.4 NM_005659.4 |
| 119.2 | 106.7 | 107.6 | 112.4 NM_001035247.1 |
| 112 | 105.3 | 104.6 | 125.2 NM_016617.1 |
| 244.5 | 189.6 | 210.1 | 164.9 NM_003358.1 |
| 73.4 | 80 | 73.7 | 80.9 NM_001025777.1 |
| 140.9 | 192.3 | 191.6 | 151.9 NM_020120.2 |
| 281.2 | 397.2 | 348.9 | 356.1 NM_020120.2 |
| 187.9 | 193.5 | 206.7 | 165.5 NM_020121.2 |
| 371.2 | 315.4 | 299.9 | 262.5 NM_003359.2 |
| 560.5 | 529.5 | 431.4 | 564.6 NM_006759.3 |
| 100 | 92.8 | 95.8 | 90.3 NM_006759.3 |
| 1958.6 | 1892.4 | 1667.4 | 1707.3 NM_006759.3 |
| 98.6 | 89.8 | 83.4 | 100.7 NM_000463.2 |
| 73.1 | 72.6 | 73.8 | 73.8 NM_019075.2 |
| 90.2 | 88.2 | 83.4 | 73.6 NM_019093.2 |
| 86.2 | 78.3 | 76.4 | 87.4 NM_007120.2 |
| 92.8 | 87.7 | 91.3 | 84.9 NM_019078.1 |
| 91.9 | 93.7 | 88.1 | 89.2 NM_205862.1 |
| 86.8 | 95.1 | 91.6 | 102.6 NM_001072.2 |
| 91.2 | 81.7 | 81.5 | 81.8 NM_001072.2 |
| 88.2 | 88.2 | 80.2 | 89.5 NM_019077.2 |
| 86.1 | 83.6 | 78.5 | 89.6 NM_019076.4 |
| 89.6 | 95 | 89.1 | 88.3 NM_021027.2 |
| 79.1 | 82.2 | 77.6 | 82.5 NM_006798.1 |
| 99.6 | 91.4 | 90.4 | 85.6 NM_024743.2 |
| 82.6 | 84.5 | 81.8 | 79.2 NM_001075.2 |
| 107 | 95.6 | 93.5 | 95.7 NM_001073.1 |

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| 96 | 91.7 | 81.8 | 89.2 NM_001076.2 |
| 81.8 | 84.3 | 84.8 | 85 NM_001077.2 |
| 84.2 | 97.6 | 82.8 | 89.1 NM_001077.2 |
| 89.2 | 96.1 | 82.3 | 88.8 NM_053039.1 |
| 90.5 | 88.1 | 88.3 | 78.3 NM_021139.1 |
| 81.6 | 85.7 | 82.4 | 84.8 XM_943434.1 |
| 94.5 | 98.4 | 83.6 | 96.8 NM_001074.1 |
| 114.4 | 95.2 | 102.2 | 101.7 NM_152404.2 |
| 201.5 | 151.8 | 175.9 | 134.2 NM_174914.2 |
| 85.9 | 85.3 | 79.1 | 76.5 NM_003360.2 |
| 274.6 | 247.4 | 240.9 | 186.1 NM_175866.2 |
| 195.2 | 136.3 | 160.8 | 130.3 NM_013282.3 |
| 167.8 | 178.3 | 169.9 | 171.8 NM_152306.2 |
| 114.2 | 123.8 | 108.1 | 109 NM_207107.2 |
| 150.1 | 118.7 | 102.5 | 111.4 NM_025218.2 |
| 105.2 | 94.6 | 98.3 | 88 NM_024518.1 |
| 1054.9 | 904 | 1203.9 | 561.1 XM_942125.1 |
| 914.5 | 861.6 | 991.8 | 477.7 NM_003565.1 |
| 84.3 | 77.3 | 84.2 | 85.3 NM_003565.1 |
| 91.8 | 89.2 | 82.8 | 85.1 NM_014683.2 |
| 113.5 | 128.4 | 118.2 | 114.9 NM_015518.1 |
| 87.4 | 86.6 | 78.1 | 81 NM_001008389.1 |
| 107.2 | 99.5 | 98.4 | 94.3 NM_003361.2 |
| 88.2 | 76.5 | 81.3 | 83.6 NM_173568.2 |
| 81.6 | 85.1 | 87.7 | 89.8 NM_173568.2 |
| 115.9 | 106.1 | 102.3 | 110.2 NM_000373.1 |
| 113.5 | 103.9 | 97.5 | 91.7 NM_054035.1 |
| 151.5 | 190.8 | 170.7 | 104.9 NM_005148.2 |
| 95.8 | 86.4 | 90 | 83.9 NM_001080421.1 |
| 102.4 | 103.7 | 93.7 | 93.5 XM_038604.9 |
| 97.1 | 85.4 | 86.4 | 80.7 NM_001080421.1 |
| 105.6 | 105.7 | 114.9 | 102.1 NM_006377.2 |
| 87.5 | 86.6 | 85.5 | 77 NM_001080534.1 |
| 135.4 | 142 | 128.7 | 119.5 NM_199242.1 |
| 558.4 | 467.2 | 473.1 | 303.7 NM_001039675.1 |
| 125.9 | 118 | 112 | 110.2 NM_017979.1 |
| 631.7 | 620.1 | 583.7 | 453.5 NM_018671.2 |
| 97.6 | 99.5 | 98.2 | 94.7 NM_001039675.1 |
| 88.3 | 88.9 | 82.7 | 89.8 NM_173167.2 |
| 3402.5 | 2653.1 | 2362.9 | 1674.8 NM_014044.4 |
| 98.6 | 92.3 | 86 | 86.4 NM_133369.2 |
| 90.3 | 101.9 | 97.3 | 106 NM_170744.2 |
| 116.6 | 115.9 | 106.1 | 94.1 NM_003728.2 |
| 86.8 | 75.4 | 83.6 | 85.6 NM_173561.1 |
| 82.1 | 86 | 69.1 | 78.8 NM_080872.1 |
| 403.7 | 392.4 | 350.9 | 314.5 NM_025154.2 |
| 2705.2 | 2380.8 | 2706.5 | 1156.5 NM_015374.1 |
| 93.3 | 90.2 | 85.4 | 89.3 NM_018974.2 |
| 788.1 | 746.7 | 741.4 | 583.9 NM_030930.2 |
| 99.3 | 92.5 | 90.2 | 93.6 NM_001080461.1 |

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| 94.6 | 92.8 | 92.6 | 93.6 NM_080911.1 |
| 880 | 741.3 | 646.9 | 511.5 NM_080911.1 |
| 85.3 | 80.5 | 84.5 | 81 NM_003362.2 |
| 136.3 | 100.6 | 103.9 | 108.6 NM_021147.2 |
| 85.8 | 84.6 | 82.6 | 87.2 NM_001080419.1 |
| 89.7 | 93.6 | 93.2 | 102.7 NM_001037125.1 |
| 88.7 | 87.5 | 80.6 | 86.2 NM_205855.1 |
| 101.5 | 87.7 | 90.5 | 88.4 NM_198443.1 |
| 79 | 82 | 82.1 | 85.8 NM_203347.1 |
| 100.4 | 90.1 | 90.6 | 90.3 NM_198481.1 |
| 116.3 | 94.1 | 110.1 | 101.7 NM_207409.1 |
| 95.5 | 95.5 | 95.2 | 97.9 NM_207392.1 |
| 93.9 | 125.8 | 117.7 | 122.9 NM_198573.2 |
| 90.8 | 89.2 | 92 | 91.9 NM_198477.1 |
| 2393.5 | 1963.3 | 2236.2 | 1016.4 NM_198536.1 |
| 95.4 | 108.4 | 104.6 | 97.2 NM_207103.1 |
| 90 | 93.9 | 89.2 | 85.3 NM_207384.1 |
| 99 | 105.3 | 101.6 | 99.3 NM_213608.1 |
| 88.1 | 80.6 | 85.3 | 90 NM_212557.1 |
| 102.6 | 99.7 | 81.5 | 86.2 NM_198570.1 |
| 116 | 129 | 127.9 | 104.3 NM_206895.1 |
| 122.2 | 103.3 | 104.2 | 102.8 NM_207316.1 |
| 112.8 | 101.5 | 104.4 | 86.8 NM_205548.1 |
| 100.9 | 81.4 | 84.8 | 86.2 NM_207410.1 |
| 94.7 | 103 | 83.7 | 85.4 NM_198464.1 |
| 94.6 | 107.1 | 81.2 | 95.6 NM_207413.1 |
| 98.3 | 88 | 85.3 | 79.8 NM_207377.1 |
| 104.9 | 104.2 | 91.2 | 93.9 NM_016327.2 |
| 1338.7 | 1366.4 | 1108.5 | 999.4 NM_080599.1 |
| 103.8 | 100.3 | 95.3 | 93.9 NM_080599.1 |
| 620.3 | 736.3 | 605.4 | 559.8 NM_015542.2 |
| 326.9 | 359.8 | 338.3 | 435.3 NM_023011.2 |
| 486.9 | 533.9 | 492.8 | 452.3 NM_080687.1 |
| 689.4 | 594.6 | 492.8 | 538.9 NM_080632.1 |
| 698.5 | 694.6 | 648.1 | 596.8 NM_080632.1 |
| 91.1 | 94.5 | 87.6 | 87.5 NM_007000.2 |
| 88.1 | 84.5 | 90.3 | 80.9 NM_006952.3 |
| 94.3 | 95.2 | 90.2 | 92.4 NM_006760.1 |
| 90.8 | 88.7 | 87.4 | 85.7 NM_006953.2 |
| 93.7 | 81.4 | 90.3 | 84 NM_182684.1 |
| 97.2 | 102.6 | 81.1 | 95.5 NM_182684.1 |
| 93.5 | 96.1 | 82 | 97.5 NM_030570.2 |
| 86.6 | 89.1 | 90.6 | 87.5 NM_003364.2 |
| 85.9 | 82.5 | 74.7 | 89.4 NM_181597.1 |
| 167.6 | 194 | 182.6 | 126.3 NM_181597.1 |
| 92 | 82.2 | 74.8 | 89.8 NM_173355.2 |
| 456.5 | 417.7 | 378.5 | 315.1 NM_145052.1 |
| 145.9 | 122.6 | 111 | 116.5 NM_006830.2 |
| 139.5 | 119.7 | 110.9 | 104.1 NM_006294.2 |
| 1201 | 1098.4 | 893.5 | 862.3 NM_003365.2 |

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| 410.1 | 345.2 | 289.7 | 290.3 | NM_003366.2 |
| 6439.2 | 4447.9 | 4029.9 | 2835.8 | NM_006003.1 |
| 15898.3 | 15591.9 | 12413.8 | 12704.2 | NM_006004.2 |
| 113.3 | 95.6 | 108.5 | 97.1 | NM_199511.1 |
| 81.9 | 90.9 | 82.5 | 92.4 | NM_199512.1 |
| 315.5 | 302 | 280.1 | 180.8 | NM_017920.2 |
| 322.8 | 310.6 | 278.7 | 268 | NM_001077664.1 |
| 100.9 | 80.5 | 84.8 | 76.3 | NM_144639.1 |
| 880.6 | 816 | 896.1 | 586.4 | NM_000374.3 |
| 2064 | 1355.5 | 1463.2 | 599.2 | NM_000375.1 |
| 1524.6 | 1595.1 | 1428.1 | 1082.6 | NM_031471.4 |
| 278.8 | 294.1 | 276.9 | 287.7 | NM_031471.4 |
| 241.3 | 187.7 | 210.4 | 159.2 | NM_007122.3 |
| 281.3 | 382.3 | 286.4 | 247.7 | NM_007122.3 |
| 94.3 | 96.8 | 95.9 | 96.4 | NM_003367.2 |
| 303.7 | 294.9 | 271.3 | 285.8 | NM_207291.1 |
| 145.9 | 144.9 | 120.4 | 156.3 | NM_207291.1 |
| 88.6 | 94.4 | 83.7 | 84.9 | NM_005709.2 |
| 80.9 | 76.6 | 86.9 | 78.8 | NM_005709.2 |
| 115.1 | 102 | 100 | 107.5 | NM_173477.2 |
| 96.5 | 99.1 | 94.7 | 95.6 | NM_007123.4 |
| 90.9 | 86.8 | 81.6 | 95.4 | NM_206933.1 |
| 86 | 86 | 85.7 | 85.5 | NM_007123.4 |
| 112.2 | 110.4 | 107 | 90.9 | NM_052995.2 |
| 92.5 | 91.2 | 89.2 | 101.8 | NM_174878.2 |
| 88.7 | 91.6 | 82.9 | 80.5 | NM_031941.3 |
| 136.3 | 126.8 | 122.1 | 105.3 | NM_032747.1 |
| 84.2 | 89.8 | 83 | 82.9 | NM_001017415.1 |
| 490.3 | 440 | 394.3 | 491.9 | NM_003368.4 |
| 252.5 | 290.3 | 294 | 218.7 | NM_003368.4 |
| 295.2 | 247.6 | 211.4 | 196.6 | NM_005153.1 |
| 194.6 | 157.5 | 170.6 | 139.6 | NM_004651.3 |
| 78.9 | 85.9 | 102.9 | 92.5 | NM_182488.1 |
| 329.5 | 368.4 | 328.2 | 320.7 | NM_003940.1 |
| 499.1 | 419.2 | 323.5 | 455.5 | NM_005151.2 |
| 241 | 271.6 | 214.1 | 238.5 | NM_001037334.1 |
| 107.9 | 124.6 | 111.2 | 123.7 | NM_006313.1 |
| 846.5 | 1123.6 | 749.9 | 976.3 | NM_006447.2 |
| 106.1 | 94.7 | 84.6 | 91 | NM_001032410.1 |
| 103.1 | 102.4 | 94.9 | 102.6 | NM_006677.1 |
| 88.9 | 86.3 | 93.5 | 81.5 | NM_171997.1 |
| 123.6 | 111.5 | 100.5 | 97.8 | NM_004205.3 |
| 96.1 | 94.8 | 91.3 | 95.2 | NM_171997.1 |
| 82.4 | 79.5 | 80.5 | 84 | NM_006676.4 |
| 92 | 94.7 | 89.2 | 83.4 | NM_001008563.1 |
| 379.9 | 222.5 | 216.5 | 182.1 | NM_012475.4 |
| 113.5 | 95.5 | 83.9 | 90.1 | NM_001014443.2 |
| 289.1 | 180.4 | 173.1 | 143.6 | NM_012475.4 |
| 104.4 | 102.1 | 90.2 | 106.5 | NM_013396.3 |
| 120 | 126.7 | 99.7 | 99.8 | NM_031907.1 |

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| 84 | 86.2 | 83.3 | 91.8 NM_020886.2 |
| 84.3 | 88.9 | 77.6 | 87.3 NM_020903.2 |
| 1439.5 | 1041.1 | 934.8 | 794.6 NM_006537.2 |
| 94.9 | 100.7 | 96.8 | 95.8 NM_032663.2 |
| 85.1 | 78.9 | 82.9 | 74.9 NM_020718.2 |
| 99.9 | 93.3 | 95.3 | 87.4 XM_939750.1 |
| 92.9 | 146 | 168.9 | 157.3 NM_032582.3 |
| 128 | 134.8 | 120.5 | 117.6 NM_201624.1 |
| 164.6 | 237.3 | 219.6 | 195.4 NM_201626.1 |
| 229 | 360 | 283.4 | 267.9 NM_014709.2 |
| 231.5 | 187.9 | 184.8 | 151.3 NM_020935.1 |
| 561.8 | 392.4 | 391.4 | 271.6 NM_032557.4 |
| 1282 | 1218.4 | 911.8 | 692 NM_006590.2 |
| 141.1 | 167.3 | 146 | 149.5 NM_003363.2 |
| 702.1 | 606.7 | 544.7 | 329.1 NM_003363.2 |
| 101.3 | 107 | 94.7 | 97.2 NM_018218.1 |
| 110.7 | 118.2 | 114.1 | 122.6 XM_932190.1 |
| 568.8 | 484.2 | 493.5 | 370 NM_032172.1 |
| 100 | 98.3 | 78.5 | 85.4 NM_153210.2 |
| 87.3 | 85.2 | 83 | 89.4 NM_032147.1 |
| 96 | 92.9 | 89.2 | 86.5 NM_001042403.1 |
| 119.8 | 128.4 | 97.3 | 94.6 NM_001080481.1 |
| 111.3 | 110.9 | 89.8 | 93 NM_022832.2 |
| 116.1 | 125.7 | 108.2 | 127 NM_017944.3 |
| 183.6 | 238.7 | 280.8 | 249.4 NM_032236.5 |
| 170.3 | 154.6 | 143.3 | 155.3 NM_001032730.1 |
| 351.2 | 317.1 | 288 | 260.9 NM_001032730.1 |
| 822.4 | 1179 | 1504.4 | 1039.5 NM_018561.3 |
| 838.9 | 776.1 | 620.1 | 574.3 NM_003481.1 |
| 84.4 | 87.5 | 84.4 | 84.3 NM_203494.1 |
| 89.2 | 93.7 | 81.1 | 89.1 NM_201286.2 |
| 195.5 | 279.9 | 271.4 | 203.3 NM_014871.2 |
| 100.5 | 101.5 | 92 | 103.9 NM_019050.1 |
| 92.9 | 89.6 | 88.1 | 81 NM_152586.2 |
| 95.6 | 87.4 | 81.1 | 88.8 NM_004505.1 |
| 166 | 129 | 119.6 | 111 NM_001080491.1 |
| 88.8 | 86.7 | 78.5 | 84.8 XM_943796.1 |
| 264.6 | 196.3 | 205.6 | 173.9 NM_003470.1 |
| 194.3 | 167 | 177.3 | 216.1 NM_005154.2 |
| 99.1 | 89.6 | 86.3 | 92.3 NM_001039590.1 |
| 388 | 520.4 | 458.3 | 331.7 NM_004652.3 |
| 112.3 | 112.3 | 103.2 | 114.8 NM_004654.3 |
| 238.7 | 240.3 | 250.6 | 194.8 NM_005800.3 |
| 126 | 112.4 | 105.9 | 119.4 NM_005715.1 |
| 95.9 | 90.1 | 88.6 | 88.6 NM_003577.2 |
| 1220.8 | 833 | 743.8 | 595.8 NM_016037.2 |
| 1066.7 | 797.9 | 629.6 | 628.7 NM_006649.2 |
| 519.4 | 593 | 559.8 | 423.3 NM_021645.4 |
| 203 | 146.8 | 133.6 | 122.9 NM_032175.2 |
| 88.5 | 91 | 82.6 | 86.4 NM_014503.2 |

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| 113.4 | 118.8 | 130 | 122 NM_007124.1 |
| 123.6 | 114.4 | 116.3 | 127 NM_006786.2 |
| 229.7 | 190 | 222.1 | 190.5 NM_021995.1 |
| 175.1 | 186.7 | 155.6 | 185.9 NM_021995.1 |
| 92.2 | 96 | 83.4 | 95.4 NM_198152.2 |
| 87.8 | 91 | 86.3 | 90.9 NM_018949.1 |
| 81.2 | 81.7 | 81.4 | 91.4 NM_021140.1 |
| 90.1 | 88.9 | 94.4 | 87.9 NM_182659.1 |
| 102.3 | 112.6 | 103.6 | 120.4 NM_007125.3 |
| 86 | 93.2 | 79.3 | 90.1 NM_182660.1 |
| 202.8 | 181 | 168.6 | 183.7 NM_003369.2 |
| 95.3 | 83.7 | 90.3 | 83.1 NM_025076.2 |
| 3229.6 | 2394.8 | 1947.9 | 1762.3 NM_004182.2 |
| 92.6 | 86.6 | 85.3 | 86.8 NM_153477.1 |
| 99.4 | 109 | 109.3 | 99 NM_018052.3 |
| 140.7 | 141.9 | 129.1 | 103.7 NM_018052.3 |
| 93 | 92.5 | 85.4 | 90.9 NM_014231.3 |
| 81.4 | 82 | 80.5 | 79.7 NM_199245.1 |
| 189.6 | 192.8 | 218.6 | 170.2 NM_016830.2 |
| 124.7 | 128.1 | 128.3 | 117.6 NM_014232.1 |
| 484.9 | 445.6 | 442.5 | 361.1 NM_004781.3 |
| 128 | 105.7 | 102.4 | 103.6 NM_003762.2 |
| 154.9 | 136.9 | 126.9 | 142.6 NM_003762.2 |
| 188 | 213 | 230.9 | 196.8 NM_006634.2 |
| 11374.3 | 12138.5 | 11145 | 8075.4 NM_003761.2 |
| 109.5 | 104.6 | 89.4 | 92.4 NM_138959.1 |
| 99.2 | 94.2 | 95.7 | 94.8 NM_020335.1 |
| 104.3 | 108.7 | 112.1 | 126.5 NM_194434.2 |
| 98.3 | 92.4 | 91.5 | 102.4 NM_194434.2 |
| 310.4 | 246.7 | 206.8 | 197.9 NM_003574.4 |
| 83.5 | 82.5 | 75.9 | 76.1 NM_004738.3 |
| 136.1 | 146.1 | 147 | 144 NM_006295.1 |
| 1737 | 990 | 839.3 | 469 NM_006295.1 |
| 255.1 | 192.6 | 182.6 | 136.5 NM_020442.3 |
| 231.8 | 240 | 204.5 | 150.8 NM_014909.2 |
| 122.9 | 142.7 | 109.8 | 109.4 NM_001008736.1 |
| 101.4 | 105.8 | 100 | 100.2 NM_003370.3 |
| 197.1 | 214 | 174.7 | 188.4 NM_006373.2 |
| 265.6 | 318.4 | 275.9 | 205.9 NM_005428.2 |
| 107 | 109.9 | 95.3 | 93.8 NM_003371.2 |
| 129.1 | 127.2 | 125.1 | 117.8 NM_006113.4 |
| 439.9 | 314.2 | 308.6 | 240.9 NM_006113.3 |
| 1406.5 | 1167.2 | 1031.8 | 968.5 NM_006113.4 |
| 74 | 83.1 | 77.6 | 82.9 NM_199131.1 |
| 102.8 | 102.9 | 99.8 | 99.1 NM_012476.1 |
| 3396.8 | 2134.6 | 1784.1 | 2004.3 NM_003372.4 |
| 100.8 | 95.8 | 86.3 | 94.9 NM_001078.2 |
| 1107.5 | 893.4 | 754.9 | 575.8 NM_003373.3 |
| 132.8 | 130.6 | 117.9 | 111.8 NM_003373.3 |
| 89.9 | 80.1 | 75.3 | 77.8 NM_014000.2 |

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| 893.2 | 759.4 | 770.3 | 407.4 NM_007126.2 |
| 428.8 | 323.7 | 303.1 | 344.8 NM_025054.3 |
| 88.1 | 107.7 | 99.6 | 90.4 NM_013452.2 |
| 85 | 92.1 | 87.3 | 80.9 NM_016378.2 |
| 85.6 | 81.6 | 87.9 | 83.4 NM_016378.2 |
| 90.5 | 84.4 | 88.4 | 82 NM_016379.2 |
| 87.1 | 109.6 | 107 | 85.8 NM_016379.2 |
| 95.4 | 111.8 | 109.2 | 103.2 NM_001001888.1 |
| 84.3 | 87 | 88.9 | 84.1 NM_004679.2 |
| 74.6 | 86.1 | 78.6 | 79.5 NM_181880.1 |
| 8814.3 | 4822.9 | 3585 | 4845.8 NM_003374.1 |
| 78.6 | 77.3 | 80 | 84.8 NM_003375.2 |
| 10957.7 | 7067.8 | 6314.4 | 4750.6 NM_005662.3 |
| 806.7 | 878.8 | 794.1 | 660.2 NM_003715.1 |
| 80.1 | 76 | 89.3 | 83.5 NM_001017535.1 |
| 124.8 | 115.6 | 103.8 | 105.2 NM_000376.2 |
| 102.5 | 115.2 | 112.9 | 107.1 NM_001025366.1 |
| 92.9 | 82.5 | 78 | 86.3 NM_001025366.1 |
| 176.3 | 243.8 | 221.4 | 128.1 NM_003376.4 |
| 1293.4 | 1485.7 | 1709.1 | 619.7 XM_938483.1 |
| 82.4 | 80.1 | 90.3 | 98.2 NM_003377.3 |
| 122.2 | 124 | 115 | 135.5 NM_003377.3 |
| 81.8 | 74.2 | 79.2 | 81.7 NM_005429.2 |
| 89.1 | 87.1 | 89.9 | 83.6 NM_014468.2 |
| 95.1 | 87.7 | 85.5 | 91.9 NR_002311.1 |
| 91 | 102.5 | 80.1 | 84 NM_024621.1 |
| 84.2 | 90.2 | 87.1 | 91.3 NM_017599.2 |
| 94 | 92 | 87.8 | 86.6 NM_052867.1 |
| 144.1 | 111.9 | 108.3 | 116.3 NM_003378.2 |
| 118.6 | 93.2 | 92.2 | 100 NM_016267.2 |
| 88.9 | 90.5 | 85.5 | 85.1 NM_153453.1 |
| 97.6 | 103.4 | 84.2 | 94.9 NM_182645.2 |
| 85.9 | 76.8 | 76.1 | 84.4 NM_016206.2 |
| 740.9 | 642.7 | 722.1 | 448.6 NM_014667.1 |
| 305.7 | 265.6 | 318.6 | 241.5 NM_198156.1 |
| 1877.7 | 1726.1 | 1731.9 | 1241.3 NM_000551.2 |
| 271.3 | 211.2 | 230.1 | 202.9 NM_000551.2 |
| 88.9 | 83.4 | 83.2 | 87.6 NM_001004319.1 |
| 85.3 | 81.5 | 68 | 82.8 NM_007127.1 |
| 4378.2 | 4269.6 | 4032.6 | 2158.7 NM_003379.3 |
| 112.6 | 113 | 111.3 | 113 NM_015873.2 |
| 1686.5 | 707.6 | 626.3 | 552.7 NM_003380.2 |
| 78.6 | 89.2 | 86.8 | 86.1 NM_194435.1 |
| 92.1 | 91 | 86.5 | 93.4 NM_003381.2 |
| 176.8 | 217.4 | 208.9 | 159.9 NM_004624.2 |
| 86.7 | 81.6 | 80.2 | 91.7 NM_003382.3 |
| 93.3 | 94.9 | 97.6 | 91.6 NM_020746.2 |
| 89.9 | 89.5 | 86.1 | 94.7 NM_053276.2 |
| 4360.4 | 3138.2 | 3293.9 | 1916.5 NM_024006.4 |
| 426.4 | 303.9 | 256.2 | 240.6 NM_024006.4 |

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|--------|--------|--------|-------|----------------|
| 837.5 | 452.7 | 393.2 | 348.8 | NM_173517.3 |
| 482.4 | 494 | 371.3 | 453.7 | NM_001018056.1 |
| 101.2 | 90.7 | 89 | 92.7 | NM_003383.3 |
| 101.1 | 106.1 | 101.2 | 93.9 | NM_001017921.1 |
| 214.2 | 167.6 | 160 | 129.4 | NM_004183.1 |
| 87.1 | 81 | 76.2 | 78.7 | NM_017682.1 |
| 88.8 | 85 | 87.3 | 93.7 | NM_153274.1 |
| 100.9 | 87.6 | 92.7 | 94.6 | NM_152439.1 |
| 92.8 | 86.2 | 90.8 | 82.2 | NM_152439.1 |
| 92.7 | 90.8 | 86.8 | 94.3 | NM_182566.1 |
| 87.5 | 90.3 | 86.8 | 88.7 | NM_080723.2 |
| 87 | 89.7 | 86.9 | 88.9 | NM_020633.2 |
| 92.5 | 96.7 | 85.4 | 88.3 | NM_173856.1 |
| 89.7 | 83.8 | 86.6 | 85.7 | NM_173857.2 |
| 99.1 | 80.2 | 88.4 | 85.9 | NM_173858.1 |
| 96.8 | 93.9 | 96.8 | 96.1 | NM_004666.1 |
| 104 | 98.3 | 97.7 | 94.8 | NM_004665.2 |
| 91.6 | 90.4 | 90.7 | 92.2 | NM_078488.1 |
| 91.4 | 78.8 | 81.5 | 88.5 | NM_004665.2 |
| 90.5 | 84.5 | 85.5 | 89.7 | NM_078625.2 |
| 94.3 | 88.4 | 87.5 | 82.2 | NM_001024460.1 |
| 99.7 | 87.6 | 83.3 | 83.3 | NM_001024460.1 |
| 148.1 | 155.2 | 111.2 | 117.9 | NM_014703.1 |
| 96.3 | 93.1 | 92.9 | 92.8 | NM_007128.2 |
| 105.6 | 97.9 | 94.4 | 97.3 | NM_013378.1 |
| 136.7 | 144.4 | 135.1 | 122.2 | NM_021729.4 |
| 85.2 | 82.1 | 79 | 80.4 | NM_015186.2 |
| 120.1 | 146.5 | 135.1 | 155.6 | NM_033305.2 |
| 86.9 | 90.2 | 85.1 | 89.3 | NM_001018038.1 |
| 122.8 | 127.3 | 109.1 | 133.8 | NM_015186.2 |
| 92.8 | 88 | 86.8 | 89.6 | NM_015243.2 |
| 128.7 | 128.8 | 150.5 | 121.6 | NM_184042.1 |
| 91.2 | 96.4 | 91.7 | 89.4 | NM_181661.1 |
| 94.2 | 99.1 | 93.6 | 95.4 | NM_017890.3 |
| 99.6 | 81.5 | 89.1 | 94.1 | NM_152564.3 |
| 110 | 109.2 | 129 | 124.5 | NM_152564.3 |
| 108 | 148 | 135.5 | 121.2 | NM_018080.2 |
| 123.7 | 194 | 180.4 | 153.3 | NM_018080.2 |
| 94.3 | 89.3 | 87.4 | 92.2 | NM_015378.2 |
| 87.7 | 90 | 73.2 | 72.8 | NM_015378.2 |
| 95 | 114.2 | 95.2 | 99.5 | NM_015378.2 |
| 119.1 | 111.5 | 100.8 | 100.5 | NM_022575.2 |
| 361.4 | 426.2 | 450.6 | 219.4 | NM_080413.1 |
| 96.6 | 96.3 | 88.9 | 91.2 | NM_080414.1 |
| 218.8 | 227 | 188.8 | 197.3 | NM_020857.2 |
| 959.1 | 593.9 | 533.3 | 307.7 | NM_001005753.1 |
| 86.1 | 86.6 | 86.4 | 78.3 | NM_016079.2 |
| 515.1 | 436.8 | 391.6 | 321.1 | NM_032353.2 |
| 159.8 | 143.6 | 128.3 | 142 | NM_004896.2 |
| 1600.2 | 1222.4 | 1035.9 | 849 | NM_001035260.1 |

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| 448.8 | 333.3 | 291.5 | 270.4 | NM_052875.2 |
| 1067.5 | 752.2 | 730.3 | 621.5 | NM_016208.2 |
| 681.5 | 450.2 | 458.1 | 366.9 | NM_016208.2 |
| 2911.1 | 2766.7 | 2376 | 2183.8 | NM_016226.2 |
| 185.7 | 200.4 | 169.3 | 141.8 | NM_022916.3 |
| 353.3 | 312.7 | 309.7 | 269.7 | NM_018668.2 |
| 1647.5 | 1113 | 1190.2 | 869 | NM_018206.3 |
| 410.1 | 523.8 | 484.5 | 508.8 | NM_016075.2 |
| 293.1 | 251.8 | 228.2 | 267.1 | NM_152415.1 |
| 301.6 | 240.1 | 192.7 | 194.7 | NM_024667.1 |
| 2555.9 | 2052 | 1952.6 | 1186.4 | NM_017966.4 |
| 178.6 | 134.9 | 148.3 | 121.2 | XM_376631.3 |
| 199.2 | 215.7 | 212.7 | 174.6 | NM_015289.2 |
| 132 | 162.1 | 134.8 | 167.2 | NM_014396.3 |
| 229.9 | 259.5 | 350.5 | 203.5 | NM_014396.3 |
| 1393.7 | 1279.8 | 1188.9 | 1066.1 | NM_014396.3 |
| 103.4 | 109.8 | 92.5 | 91.3 | NM_014396.3 |
| 483.5 | 459.1 | 374.9 | 376.6 | NM_007259.2 |
| 230.4 | 187.2 | 159.1 | 153.2 | NM_013245.2 |
| 1271.6 | 1432.4 | 1364.6 | 1149.8 | NM_004869.2 |
| 530.3 | 577.7 | 541.4 | 447.3 | NM_022553.4 |
| 82.9 | 99.4 | 93.3 | 103.9 | NM_018289.2 |
| 140.1 | 129 | 110.8 | 144.9 | NM_001005739.1 |
| 231.7 | 190.4 | 177.7 | 162.7 | NM_016516.2 |
| 466.4 | 274.1 | 267.2 | 197.9 | NM_005997.1 |
| 263 | 258.5 | 256.4 | 277.4 | NM_015303.3 |
| 82.4 | 92.8 | 82.7 | 89.7 | NM_015303.3 |
| 594.7 | 280.4 | 237.8 | 370.9 | NM_003384.2 |
| 179.6 | 166.1 | 122.9 | 175 | NM_006296.3 |
| 217.3 | 192.3 | 202.6 | 169.9 | NM_001025778.1 |
| 172.9 | 187.6 | 172.5 | 137.2 | NM_016440.3 |
| 523.5 | 427.1 | 408.2 | 284.5 | NM_001025778.1 |
| 87.6 | 82 | 79.2 | 76.4 | NM_182607.3 |
| 91.3 | 87.9 | 86.1 | 83.3 | NM_014312.3 |
| 105 | 97.7 | 103.1 | 89.6 | NM_007268.1 |
| 97.7 | 102 | 84.2 | 100.3 | NM_001013661.1 |
| 90.8 | 86.3 | 83.6 | 97.1 | NM_173799.2 |
| 85.4 | 85.3 | 76.3 | 79.2 | NM_003385.4 |
| 79.8 | 82.5 | 87.5 | 89.1 | NM_199425.1 |
| 106.5 | 92.8 | 94 | 97.4 | NM_199425.1 |
| 84.8 | 85.7 | 74.6 | 81 | NM_014588.4 |
| 85.7 | 78 | 80.1 | 82 | NM_024626.1 |
| 164.6 | 144.9 | 141.8 | 117.7 | NM_006370.1 |
| 82.4 | 72.8 | 79.5 | 77.7 | NM_000638.2 |
| 87.7 | 87.9 | 93.3 | 82.5 | NM_022834.3 |
| 109 | 103.8 | 100 | 94.5 | NM_022834.3 |
| 88.7 | 88 | 83.9 | 92.4 | NM_198496.1 |
| 97.6 | 87.9 | 85.5 | 80.5 | NM_152718.1 |
| 88.7 | 99.6 | 90.7 | 88 | NM_000552.2 |
| 839.9 | 696.1 | 540.8 | 638.8 | NM_100486.1 |

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| 101.9 | 87.5 | 89.2 | 102.6 NM_100264.1 |
| 1504.6 | 1204.6 | 1056.4 | 1455.4 NM_016628.2 |
| 999 | 618.6 | 490.4 | 374.1 NM_213646.1 |
| 1613.2 | 890.2 | 740.3 | 463.4 NM_004184.3 |
| 101.7 | 100.2 | 95.5 | 108.9 NM_201263.2 |
| 3890.7 | 3039.7 | 2867.5 | 1971.9 NM_000377.1 |
| 86.7 | 92.2 | 84.4 | 94.9 NM_003931.2 |
| 105.9 | 102.6 | 103.1 | 109 NM_003931.2 |
| 227.8 | 366.3 | 221.4 | 235.7 NM_006990.2 |
| 89 | 99.6 | 92.5 | 98.8 NM_006646.4 |
| 337.4 | 406.8 | 367.6 | 351.3 NM_003941.2 |
| 414.4 | 486.5 | 461.4 | 469.6 NM_003387.3 |
| 139.1 | 119.4 | 149.4 | 112.2 NM_012477.2 |
| 1377.7 | 1199.4 | 906.4 | 915.7 NM_016312.2 |
| 4455.6 | 3353.4 | 3533.7 | 3547.3 NM_012478.2 |
| 355.4 | 352.6 | 303.7 | 345.9 NM_007187.3 |
| 93.3 | 96.2 | 89.6 | 88.1 NM_001006614.1 |
| 107.2 | 99.6 | 106.5 | 98.6 NM_032994.1 |
| 173.5 | 123.2 | 135.6 | 112 NM_030798.2 |
| 94.1 | 86.2 | 91.7 | 95.2 NM_022479.1 |
| 208.5 | 283.1 | 269.3 | 287.5 NM_032317.2 |
| 87.7 | 81.7 | 84.8 | 85.3 NM_175064.2 |
| 85.5 | 94.3 | 86.7 | 90.6 NM_175064.2 |
| 1509.1 | 1173.6 | 1090.7 | 820.9 NM_017528.2 |
| 90.7 | 85.9 | 78.3 | 77.2 NM_025042.2 |
| 108.1 | 98 | 99.4 | 97.9 NM_152559.2 |
| 95.7 | 85 | 95.6 | 91.9 NM_182504.2 |
| 2139.8 | 1682.4 | 1521.1 | 1306 NM_020830.3 |
| 427.1 | 530.5 | 554.9 | 395.6 NM_052950.2 |
| 110.5 | 100.6 | 82.6 | 118.8 NM_014991.3 |
| 104 | 98.1 | 95.7 | 99.2 NM_178583.1 |
| 87.1 | 85.2 | 77.6 | 86.2 NM_178585.1 |
| 99.1 | 94.4 | 93.6 | 93.6 NM_001008396.1 |
| 180.5 | 149.1 | 139.8 | 139.5 NM_001008396.1 |
| 132.5 | 136.2 | 132.3 | 120.7 NM_007086.2 |
| 404.6 | 358.2 | 287.5 | 262.8 NM_017491.3 |
| 5857.8 | 4632.7 | 3730 | 3120.6 NM_017491.3 |
| 868.7 | 721.8 | 593.3 | 550.9 NM_018256.2 |
| 302.6 | 274 | 277.8 | 199.2 NM_017883.3 |
| 87.8 | 87.7 | 81.4 | 79.6 NM_145054.4 |
| 83.5 | 92.5 | 89 | 74.7 NM_145054.4 |
| 86.3 | 86.6 | 79.7 | 89.8 NM_181265.2 |
| 99.5 | 88.7 | 88.4 | 88.3 NM_170710.3 |
| 1740.3 | 915.6 | 851.9 | 394.5 NM_024100.3 |
| 214.1 | 236.7 | 216.8 | 185.2 NM_025132.3 |
| 312.9 | 262.2 | 269.9 | 204.1 NM_181291.1 |
| 188.7 | 169.1 | 117.5 | 143.2 NM_181308.1 |
| 153.1 | 119.7 | 100.4 | 104.5 NM_144574.2 |
| 294.1 | 217.5 | 199 | 202 NM_015604.2 |
| 104.2 | 92.8 | 96.7 | 90.9 NM_152418.2 |

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| 240.6 | 241.3 | 208.7 | 177.3 | NM_003861.1 |
| 130.9 | 102.9 | 95.6 | 96.3 | NM_025230.3 |
| 217.3 | 256.3 | 297.1 | 184.2 | NM_025230.3 |
| 124.7 | 119.1 | 122.5 | 105.9 | NM_032259.1 |
| 110.1 | 101.5 | 105.2 | 97.8 | NM_024515.3 |
| 244.5 | 237.9 | 230.2 | 285.2 | NM_025160.4 |
| 193 | 265.9 | 265.4 | 234.9 | NM_182552.2 |
| 113.7 | 105.2 | 96.4 | 92.7 | NM_006784.1 |
| 100.4 | 92.5 | 89.9 | 94.3 | NM_145241.2 |
| 113.4 | 156.9 | 178 | 156.8 | NM_001006623.1 |
| 887.1 | 712.8 | 612.7 | 485.8 | NM_001006622.1 |
| 118.7 | 121.4 | 109.8 | 119.6 | NM_001006622.1 |
| 130.6 | 142.3 | 118.7 | 135.7 | NM_018383.3 |
| 312.4 | 190.4 | 148.2 | 176.1 | NM_052844.3 |
| 88.6 | 110.7 | 103.8 | 81.7 | NM_020779.3 |
| 539 | 498 | 414 | 331.3 | NM_139281.2 |
| 634.4 | 473.8 | 492 | 412.5 | NM_014023.3 |
| 1531 | 1029.6 | 922.2 | 598.3 | NM_033661.3 |
| 125.6 | 103.5 | 109.2 | 106.8 | NM_033661.3 |
| 131.4 | 115.5 | 102.6 | 106.3 | NM_018669.4 |
| 1187.4 | 1072.7 | 890.4 | 667.5 | NM_015397.1 |
| 222.9 | 187.7 | 165.5 | 152.9 | NM_178470.3 |
| 537.8 | 427.5 | 450.3 | 237.3 | NM_018268.2 |
| 93.8 | 78.7 | 75.6 | 84.7 | NM_001017930.1 |
| 107.6 | 89.7 | 90.3 | 90.1 | NM_019045.3 |
| 176.4 | 212.5 | 200.4 | 203.7 | NM_001029896.1 |
| 109.1 | 83.4 | 86.7 | 98.2 | NM_007075.3 |
| 96.1 | 103 | 89.6 | 99.9 | NM_001029896.1 |
| 364.3 | 345.8 | 317.8 | 272.1 | NM_019613.2 |
| 968.1 | 944.6 | 809.2 | 615 | NM_005452.4 |
| 87.2 | 83.9 | 80 | 74 | NM_014969.3 |
| 326.3 | 307.6 | 249.4 | 232.4 | NM_020839.2 |
| 194.7 | 178.2 | 171.8 | 161.3 | NM_178824.3 |
| 138 | 113.4 | 96 | 110.2 | NM_017588.2 |
| 955.8 | 531.2 | 498 | 478.6 | NM_052821.3 |
| 361.2 | 294.4 | 222.9 | 247.8 | NM_016001.1 |
| 1409.6 | 958.3 | 979.6 | 476.3 | NM_015426.2 |
| 131 | 119.8 | 115.7 | 118.1 | NM_172240.1 |
| 123.2 | 117.5 | 113.4 | 105.4 | NM_018338.2 |
| 226.2 | 233.6 | 201 | 175.5 | NM_182627.1 |
| 1498.7 | 665.4 | 765.6 | 483.1 | NM_032118.2 |
| 253.2 | 248.5 | 272.3 | 213.5 | NM_017706.3 |
| 1724.3 | 1528 | 1071.9 | 961.2 | NM_004814.1 |
| 515.4 | 356.7 | 326.8 | 290.7 | NM_024339.2 |
| 645.9 | 580.6 | 596.3 | 455.8 | NM_030581.3 |
| 136.9 | 136 | 140.8 | 139.9 | NM_019069.3 |
| 1471.6 | 1550.5 | 1621 | 950.2 | NM_018031.2 |
| 201.7 | 283.8 | 276.6 | 234 | NM_018051.2 |
| 2687.7 | 2679.5 | 2639.5 | 1764.7 | NM_025234.1 |
| 151.9 | 138.4 | 123.8 | 134 | NM_173636.3 |

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| 94.2 | 83.9 | 85.5 | 92 NM_145172.1 |
| 98.4 | 99.7 | 83.7 | 95.9 NM_144625.2 |
| 89.2 | 84.1 | 78.7 | 85.5 NM_152498.1 |
| 92.1 | 85.8 | 85.2 | 92.1 NM_144668.3 |
| 545.8 | 341.4 | 327.6 | 251.7 NM_145647.1 |
| 1737.1 | 1778.8 | 1349.8 | 1496.9 NM_005828.2 |
| 91.3 | 81.4 | 75 | 85.7 NM_178821.1 |
| 91.7 | 91 | 92.1 | 95.9 NM_015285.2 |
| 202.7 | 221.7 | 186 | 173.6 NM_015285.2 |
| 774.5 | 873.9 | 786.1 | 708.8 NM_018034.2 |
| 883.5 | 440 | 335.8 | 332.4 NM_025155.1 |
| 89.2 | 81.6 | 88.7 | 85.5 NM_182758.1 |
| 335.2 | 261 | 253.9 | 197.8 NM_032856.1 |
| 614.5 | 355.5 | 353 | 217.4 XM_936269.1 |
| 179.2 | 281.2 | 433.9 | 287.8 NM_018093.1 |
| 182.5 | 137.7 | 132.1 | 115.3 NM_018093.1 |
| 1593.7 | 1166.4 | 1006.1 | 910.6 NM_032168.1 |
| 483.4 | 285.9 | 226.8 | 223.9 NM_024102.2 |
| 87.1 | 90.9 | 85.1 | 89.1 NM_207014.1 |
| 73.9 | 75.3 | 82.6 | 78.3 NM_024763.3 |
| 85.8 | 88.9 | 81.2 | 77.9 NM_207014.1 |
| 162.3 | 142.8 | 167.4 | 111.8 NM_018081.1 |
| 763.8 | 610.8 | 534.1 | 466.6 NM_017818.2 |
| 115.4 | 95.9 | 98.3 | 119.2 NM_152348.1 |
| 92 | 98.7 | 89.9 | 89 NM_145054.2 |
| 110.9 | 98.9 | 88 | 98.8 NM_015420.4 |
| 432.3 | 486.7 | 429 | 399.9 NM_152528.1 |
| 91.7 | 87.4 | 87.3 | 86.4 NM_015023.2 |
| 439.2 | 269.6 | 242.3 | 221.7 NM_003390.2 |
| 90.6 | 90.2 | 86.6 | 100.7 NM_021197.2 |
| 114.4 | 100.2 | 95.8 | 109 NM_080753.2 |
| 84.6 | 80.2 | 78.7 | 79.9 NM_172006.2 |
| 96.8 | 96.3 | 94.5 | 82.6 NM_172131.2 |
| 90.7 | 88.7 | 88 | 85.2 NM_147197.2 |
| 88.6 | 83.2 | 81.6 | 90.3 NM_080869.1 |
| 72.6 | 78.6 | 76.6 | 77.5 NM_172005.1 |
| 93.1 | 82.2 | 82.2 | 73.9 NM_080736.1 |
| 98.8 | 85.4 | 89.1 | 100.3 NM_080735.1 |
| 88.1 | 95.6 | 85 | 96.7 NM_181530.1 |
| 122.3 | 117.1 | 119.4 | 115.6 NM_181522.1 |
| 88.1 | 84.6 | 75.4 | 82 NM_080614.1 |
| 78.2 | 85.4 | 86.2 | 81.4 NM_145652.2 |
| 86.3 | 91.8 | 91.5 | 97.5 NM_080827.1 |
| 98.4 | 84.1 | 91.6 | 95.2 NM_181510.1 |
| 86.3 | 90.6 | 95 | 87.5 NM_130896.1 |
| 84.3 | 90.3 | 82.5 | 86.5 NM_147198.2 |
| 80.3 | 87.3 | 90.6 | 81.6 NM_053284.2 |
| 77.7 | 79.3 | 78.5 | 78.3 NM_175575.4 |
| 123.2 | 106.4 | 106.7 | 92 NM_006005.2 |
| 122.5 | 138 | 136.2 | 149.4 XM_058720.7 |

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| 105.7 | 96 | 104.9 | 105 NM_001080435.1 |
| 90 | 88.4 | 93.5 | 96 NM_001042424.1 |
| 97.1 | 85.1 | 103.9 | 94.6 NM_133330.1 |
| 107.9 | 89.6 | 86.8 | 96.4 NM_007331.1 |
| 96.3 | 94.5 | 88 | 84.4 NM_133336.1 |
| 100.5 | 92.3 | 78.9 | 85 NM_133334.1 |
| 92 | 88.4 | 82.6 | 94.1 NM_023034.1 |
| 115.7 | 111.9 | 104.6 | 95.8 NM_023034.1 |
| 193.8 | 170.8 | 155.1 | 135.3 NM_017778.2 |
| 112.7 | 123.3 | 99.6 | 104.6 NM_005663.2 |
| 310.2 | 410.2 | 436.3 | 397.6 NM_032345.1 |
| 90.9 | 83.2 | 89.2 | 87.9 NM_007191.2 |
| 95 | 96.7 | 90.8 | 88.2 NM_001077269.1 |
| 149.1 | 133 | 133.9 | 158.2 NM_001077269.1 |
| 88.6 | 89.8 | 92.8 | 90.1 NM_001080529.1 |
| 117.3 | 151.1 | 146.9 | 145.4 NM_017983.3 |
| 271.8 | 269.8 | 294.2 | 194.5 NM_016003.3 |
| 98.9 | 91 | 91.2 | 95.9 NM_001033520.1 |
| 116.7 | 119.4 | 118 | 101 NM_133264.4 |
| 92.7 | 84.8 | 77.2 | 79.9 NM_080838.1 |
| 83.4 | 90.2 | 93.9 | 88.4 NM_003882.2 |
| 83.4 | 83.6 | 85.9 | 97.5 NM_003881.2 |
| 94 | 86.4 | 88.6 | 86.5 NM_198239.1 |
| 87 | 86.6 | 83.3 | 91.5 NM_003880.2 |
| 85.2 | 91.9 | 98.2 | 83.4 NM_130396.1 |
| 136.5 | 83.9 | 82.6 | 83.1 NM_015855.2 |
| 153.3 | 255.8 | 212.5 | 210.2 NM_018979.1 |
| 95.6 | 91.4 | 86.5 | 88.1 NM_006648.3 |
| 99 | 93.7 | 96.1 | 89.3 NM_020922.2 |
| 87.7 | 93.2 | 87.9 | 81.4 NM_001002838.1 |
| 105.7 | 98.5 | 88.2 | 92.8 NM_032387.3 |
| 93.4 | 80.7 | 86.9 | 88.5 NM_005430.2 |
| 96.6 | 89.9 | 85.7 | 87 NM_025216.2 |
| 92.7 | 90.2 | 83.3 | 79.6 NM_003394.2 |
| 94.3 | 88.2 | 82.7 | 89.7 NM_004626.2 |
| 105.5 | 112.9 | 103.1 | 102.2 NM_016087.2 |
| 97.4 | 90.2 | 85 | 100.2 NM_057168.1 |
| 93.7 | 96.2 | 85.2 | 97.5 NM_003391.1 |
| 103.4 | 90.6 | 95.4 | 88.1 NM_024494.1 |
| 97.8 | 82.9 | 89.2 | 94.4 NM_004185.2 |
| 170.1 | 206.5 | 224.4 | 142.5 NM_030753.3 |
| 95.1 | 80.1 | 83 | 89.5 NM_033131.2 |
| 90.6 | 80.2 | 77.5 | 89.5 NM_030761.3 |
| 82.8 | 86.6 | 87 | 86.8 NM_003392.3 |
| 106.1 | 100.8 | 92.9 | 94 NM_032642.2 |
| 80 | 84.1 | 86.4 | 83.6 NM_030775.2 |
| 101.1 | 99.7 | 94.1 | 94.1 NM_006522.3 |
| 89.8 | 86.1 | 87.8 | 83.9 NM_004625.3 |
| 103 | 115.2 | 114.2 | 105.4 NM_058238.1 |
| 93.7 | 90.5 | 89.4 | 93.4 NM_058244.1 |

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| 100.6 | 88.6 | 86.5 | 88.1 NM_031933.1 |
| 85.5 | 86.4 | 78.9 | 82.2 NM_003393.2 |
| 96.4 | 97.4 | 80.1 | 100.1 NM_003395.1 |
| 86.9 | 77.3 | 78.6 | 87.8 NM_003396.1 |
| 274.6 | 208.6 | 215.1 | 198 NM_004627.2 |
| 640.8 | 474.4 | 499.9 | 322.3 NM_000553.2 |
| 154.3 | 140.9 | 118.5 | 127.1 NM_020135.2 |
| 1040.4 | 1051.6 | 875.5 | 1318.5 NM_130395.1 |
| 451.7 | 422.4 | 412.9 | 417.2 NM_134265.2 |
| 430.4 | 486.6 | 481.6 | 502.5 NM_134264.2 |
| 142.4 | 121.5 | 108.3 | 116.8 NM_018639.3 |
| 181.3 | 123.1 | 90.8 | 106.6 NM_000378.3 |
| 205.2 | 127.8 | 103 | 116.7 NM_024425.2 |
| 1310.4 | 1011.3 | 765.5 | 814.2 NM_004906.3 |
| 122.3 | 102 | 104.5 | 106.2 NM_152857.1 |
| 111.7 | 122 | 109.6 | 103.5 NM_152858.1 |
| 90.4 | 94.5 | 85.7 | 79.3 NM_001080436.1 |
| 119.5 | 104 | 96.5 | 97.2 XM_059037.7 |
| 187.3 | 181.4 | 171.6 | 133.2 NM_015238.1 |
| 102.1 | 98.7 | 98.3 | 87.8 NM_024949.4 |
| 143.9 | 162.7 | 148.8 | 156.4 NM_015691.2 |
| 96.1 | 85.6 | 88.9 | 84.9 NM_130791.1 |
| 128.4 | 101.9 | 105.8 | 103.7 NM_018560.4 |
| 82.5 | 73.7 | 71 | 75 NM_130844.1 |
| 129.3 | 102 | 104.9 | 92.5 NM_130844.1 |
| 102.1 | 94.9 | 90.7 | 94.8 NM_007013.3 |
| 79.8 | 80 | 78.9 | 89.6 NM_007014.3 |
| 124.8 | 109.8 | 99.5 | 101.4 NM_199424.1 |
| 277.2 | 230.3 | 224.4 | 150.4 NM_199423.1 |
| 77.1 | 90.5 | 86 | 90.6 NM_015472.3 |
| 1566.8 | 1113.6 | 901.8 | 855.6 NM_007266.1 |
| 712.5 | 501.2 | 355.2 | 416.4 NM_020196.2 |
| 330.7 | 300.5 | 319.6 | 271.8 NM_199139.1 |
| 113.8 | 118.9 | 109 | 119.3 NM_199139.1 |
| 87.6 | 93.8 | 85.1 | 92.6 NM_133431.1 |
| 303.9 | 234.5 | 230.9 | 207.9 NM_133431.1 |
| 85.5 | 80.9 | 86.6 | 90.9 NM_130777.1 |
| 86.8 | 91.6 | 86.7 | 84.2 NM_133179.1 |
| 82.1 | 88.9 | 79.1 | 91.6 NM_130776.1 |
| 88.3 | 81.9 | 78.6 | 80.1 NM_130775.1 |
| 3488.8 | 1872.3 | 1457 | 1483.7 NM_001079539.1 |
| 6122.5 | 3301.5 | 2911.6 | 2195.2 NM_005080.2 |
| 79.9 | 87.3 | 86.6 | 96.7 NM_002995.1 |
| 86.7 | 89 | 90.7 | 93.6 NM_005283.2 |
| 85.8 | 86.2 | 82.6 | 91.7 NM_001024644.1 |
| 115.8 | 112.3 | 102.4 | 108 NM_001024644.1 |
| 79.8 | 80 | 79.2 | 74.3 NM_000379.2 |
| 85.9 | 86.8 | 75.4 | 82.2 NM_175569.1 |
| 125.9 | 169.1 | 150.9 | 185.5 NM_021083.2 |
| 89.8 | 82.8 | 81.5 | 84.9 NM_175878.2 |

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|--------|--------|--------|----------------------|
| 85.9 | 81.5 | 75.2 | 80.7 NM_052898.1 |
| 81.4 | 84.5 | 81.2 | 93.3 NM_207411.2 |
| 96.8 | 81.7 | 79.8 | 90.8 NM_001012239.1 |
| 92.9 | 83.2 | 81.1 | 93.1 NM_173683.2 |
| 156.1 | 117.8 | 113.1 | 108.1 NM_001012239.1 |
| 89.2 | 86.9 | 87.9 | 83.9 NM_001011718.1 |
| 192.4 | 186.8 | 155.2 | 165 NM_018053.2 |
| 93.4 | 81.3 | 89.3 | 95.7 NM_001011720.1 |
| 81.5 | 85.2 | 80.4 | 85.2 NM_212559.1 |
| 83.3 | 83.4 | 73.2 | 88.5 NM_004677.2 |
| 102.1 | 93.9 | 92.4 | 86.6 NM_024782.1 |
| 81.8 | 84.8 | 81.2 | 90.1 NM_006691.2 |
| 97 | 92.9 | 81.5 | 88.1 NM_000380.2 |
| 612.9 | 795.2 | 711.1 | 666 NM_004628.3 |
| 1591.5 | 960.3 | 856.9 | 680.7 NM_020383.2 |
| 102.4 | 101.2 | 95.9 | 93.9 NM_003399.4 |
| 5966.6 | 5943.9 | 7951 | 8223.7 NM_022098.2 |
| 2643.3 | 2759.6 | 2031.5 | 2282.9 NM_003400.3 |
| 218.3 | 212.9 | 207 | 195.3 NM_022459.3 |
| 464.7 | 379.7 | 343.8 | 249.4 NM_020750.1 |
| 459.8 | 422.5 | 373.4 | 246.7 NM_015171.1 |
| 605.3 | 458.5 | 436.2 | 273.4 NM_015024.2 |
| 360.2 | 276.7 | 206.9 | 202.4 NM_007235.3 |
| 1007.8 | 1002.5 | 897 | 640.3 NM_004736.2 |
| 284.8 | 216.6 | 226.3 | 159.6 NM_006297.1 |
| 862.2 | 1108.8 | 1355.8 | 1666.2 NM_005431.1 |
| 263.8 | 177.8 | 160.5 | 157.9 NM_005432.2 |
| 88.5 | 81.1 | 84.3 | 86.6 NM_022406.1 |
| 443.8 | 369.4 | 329.8 | 280.4 NM_021141.2 |
| 3872.8 | 3008.9 | 2711.7 | 1938.3 NM_001469.3 |
| 94 | 97.4 | 97.6 | 102.8 NM_001042604.1 |
| 349.3 | 448.3 | 435.8 | 420.6 NM_019001.2 |
| 94.2 | 81 | 79.4 | 88 NM_012255.3 |
| 2063.3 | 900.5 | 748.3 | 530.6 NM_024096.1 |
| 82.2 | 78.3 | 82.7 | 79 NM_138568.2 |
| 113.5 | 115.2 | 109.8 | 121.9 NM_022166.2 |
| 426.6 | 445.9 | 431 | 336.6 NM_022167.1 |
| 117.6 | 108.9 | 100.9 | 96.3 NM_001012424.1 |
| 90.4 | 80.8 | 87.6 | 95.7 NM_005748.3 |
| 129.2 | 125.1 | 120.5 | 107.2 NM_001012424.1 |
| 107.3 | 103.6 | 85.4 | 90.8 NM_006106.2 |
| 2244.7 | 1488.2 | 1489.1 | 914 NM_003680.2 |
| 440.5 | 396.4 | 301.6 | 327.1 NM_015936.1 |
| 5238.1 | 5338.1 | 6628.6 | 4154.4 NM_004559.3 |
| 92.7 | 84.1 | 99.6 | 96.3 NM_015982.1 |
| 318.3 | 556.8 | 458.8 | 400 NM_018023.3 |
| 573.6 | 486.2 | 389.2 | 553.4 NM_006530.2 |
| 234.7 | 161.3 | 184.8 | 194.7 NM_005433.3 |
| 476.8 | 337.7 | 365.7 | 173.4 NM_020470.1 |
| 136.5 | 102.6 | 118 | 112.3 NM_001031731.1 |

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|---------|--------|--------|--------|----------------|
| 452.9 | 332.1 | 307.9 | 281.3 | NM_033557.1 |
| 592.2 | 379.9 | 331.3 | 321.8 | NM_001039673.1 |
| 501.1 | 467.2 | 403.9 | 423.5 | NM_018982.3 |
| 114.1 | 104.7 | 91 | 98.6 | NM_024029.3 |
| 797.1 | 547.6 | 561.1 | 352.4 | NM_015388.2 |
| 90.8 | 84.1 | 88.2 | 87.4 | NM_032312.2 |
| 150.4 | 129.8 | 107.7 | 127.8 | NM_030799.6 |
| 89.5 | 97.8 | 94.4 | 94.1 | NM_001024947.1 |
| 676.4 | 785.9 | 814 | 540.1 | NM_173834.2 |
| 80.4 | 80.3 | 84.7 | 80.8 | NM_006555.3 |
| 1052.1 | 680.6 | 500 | 544.7 | NM_139313.1 |
| 89.6 | 90.1 | 90.8 | 84.6 | NM_018566.3 |
| 109.4 | 137 | 140.8 | 119.3 | NM_013313.3 |
| 165.1 | 173.7 | 171 | 163.6 | NM_001005404.3 |
| 125.7 | 118.5 | 121.9 | 116.2 | NM_031477.3 |
| 88.5 | 88 | 88.2 | 92.8 | NM_145008.1 |
| 356.7 | 476.9 | 498.6 | 533.1 | NM_016061.1 |
| 339.8 | 333.5 | 302.6 | 232.5 | NM_024640.3 |
| 89.6 | 76.4 | 84.2 | 89 | NM_025052.3 |
| 83.2 | 79.4 | 76.7 | 99.3 | NM_001018046.1 |
| 91.8 | 100.9 | 90.7 | 91.4 | NM_001018046.1 |
| 96.9 | 88 | 88.1 | 89.5 | NM_001031732.1 |
| 127 | 110.7 | 101.5 | 100.5 | NM_133370.1 |
| 2650.4 | 2385.1 | 1985.4 | 2061.7 | NM_001031732.1 |
| 138.8 | 161.3 | 135.8 | 157 | NM_022828.2 |
| 922.9 | 643.7 | 634.6 | 475.5 | NM_017798.2 |
| 861.4 | 650.9 | 564.6 | 649.8 | NM_016258.1 |
| 228.2 | 186.9 | 161 | 163.4 | NM_152758.3 |
| 11115.5 | 7975.5 | 7584.2 | 6921.6 | NM_139323.2 |
| 384.7 | 288.1 | 292 | 232.7 | NM_003404.3 |
| 289.6 | 187.4 | 186.4 | 179.2 | NM_006761.3 |
| 1040.8 | 1022.1 | 556.6 | 767 | NM_012479.2 |
| 9094.3 | 7299.7 | 5951.7 | 5223.1 | NM_003405.3 |
| 8464 | 6217.6 | 5249.3 | 4175.7 | NM_006826.2 |
| 8339 | 6330.5 | 4263.6 | 4350.6 | NM_003406.2 |
| 226.9 | 177.7 | 124.3 | 162.9 | NM_003406.2 |
| 457.2 | 312.2 | 283.2 | 311.6 | NM_003403.3 |
| 1121.2 | 977.1 | 953.2 | 595.5 | NM_139119.1 |
| 96.4 | 94.9 | 89 | 99 | NM_206923.1 |
| 3256.5 | 2398 | 2021 | 1728.1 | NM_006007.1 |
| 170.6 | 184.2 | 243.5 | 217.7 | NM_152444.1 |
| 287.2 | 379.1 | 393.9 | 278.4 | NM_175907.3 |
| 179.9 | 128 | 117.8 | 115.5 | NM_016653.1 |
| 1238.5 | 664.3 | 576.2 | 430.9 | NM_133646.1 |
| 87.7 | 92.5 | 83.5 | 95.3 | NM_003386.1 |
| 109.1 | 88.3 | 85.5 | 92.4 | NM_173055.1 |
| 93.2 | 87.6 | 75.9 | 96.4 | NM_003386.1 |
| 89.6 | 89.7 | 96.8 | 88 | NM_207519.1 |
| 98.1 | 88.3 | 85.9 | 91.9 | NM_207519.1 |
| 87.2 | 80.3 | 81.1 | 83.4 | NM_001079.3 |

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| 95.6 | 85.4 | 83.5 | 92.9 NM_175619.1 |
| 1210 | 1795 | 1695.7 | 1184 NM_004729.3 |
| 87.2 | 84.3 | 76.2 | 82.9 NM_024508.3 |
| 75.7 | 78.9 | 82.2 | 85.2 NM_032367.1 |
| 430.8 | 482.8 | 428.1 | 376.5 NM_014838.1 |
| 267 | 282.1 | 205.1 | 189.8 NM_021211.2 |
| 183 | 136.9 | 139.9 | 120.5 NM_030776.1 |
| 100.2 | 87.4 | 94.4 | 102.3 NM_014950.1 |
| 94.7 | 97 | 95.1 | 98 NM_023929.2 |
| 100.7 | 99.8 | 92.5 | 107.6 NM_014415.1 |
| 91.4 | 99.7 | 100.3 | 100.4 NM_181842.1 |
| 80.8 | 84.8 | 87.1 | 85.1 NM_001018011.1 |
| 100.1 | 97 | 97.5 | 96.8 NM_006006.4 |
| 86.9 | 84.2 | 82.9 | 82.3 NM_006006.4 |
| 272.6 | 278.9 | 242.2 | 207.4 NM_003443.1 |
| 107 | 109.2 | 99.8 | 107.2 NM_020861.1 |
| 104.7 | 160.7 | 175.6 | 143.8 NM_015642.2 |
| 338.2 | 332.5 | 315.4 | 220.5 NM_014797.1 |
| 151.8 | 120.8 | 126.2 | 140.1 NM_006977.2 |
| 93.6 | 85.6 | 96.1 | 79.8 NM_020924.2 |
| 129.2 | 113.2 | 97.2 | 101 NM_024784.2 |
| 107.1 | 109.3 | 101 | 106.3 NM_014383.1 |
| 1771.4 | 1856.4 | 1695.7 | 1321.4 NM_006777.3 |
| 80.3 | 88.1 | 88.1 | 83.8 NM_032522.2 |
| 91.7 | 93.8 | 78.9 | 80.8 NM_001080412.1 |
| 142.4 | 110.9 | 116.1 | 99.9 NM_014830.1 |
| 383 | 462.3 | 357.2 | 434.3 NM_020899.2 |
| 229.6 | 334.9 | 357.4 | 208.9 NM_014870.2 |
| 106.9 | 98.1 | 97.1 | 98.8 NM_194314.2 |
| 126.4 | 101.8 | 119.8 | 114.5 NM_014155.3 |
| 229.5 | 189.1 | 159.5 | 174.1 NM_014872.1 |
| 77.2 | 83.8 | 75.7 | 80.2 NM_015898.2 |
| 113.3 | 101.7 | 91.9 | 102.5 NM_015872.1 |
| 89.2 | 93.8 | 87.4 | 94.3 NM_144621.2 |
| 111.8 | 95.7 | 97.6 | 100.4 NM_001040441.1 |
| 120 | 126 | 103 | 110.7 NM_178547.2 |
| 346.8 | 289 | 208.1 | 218.2 NM_152735.3 |
| 155.1 | 163.1 | 139.6 | 141.8 NM_032786.1 |
| 85.8 | 83.2 | 85.2 | 85.1 NM_014827.3 |
| 159 | 142.9 | 137.8 | 149.3 NM_025079.1 |
| 117.3 | 95.4 | 100.9 | 100.3 NM_001010888.1 |
| 336 | 382.3 | 284.6 | 287.9 NM_207660.2 |
| 615.3 | 447.9 | 224.5 | 371.5 NM_018471.2 |
| 951.9 | 646 | 623.6 | 399.5 NM_015117.1 |
| 132.9 | 126.5 | 108 | 122.1 NM_198581.1 |
| 103.9 | 99.3 | 95.2 | 88.5 NM_014153.2 |
| 91.4 | 89 | 85.2 | 82.2 NM_017590.4 |
| 137.9 | 123.7 | 102.8 | 107.3 NM_032494.1 |
| 167.7 | 111 | 99.9 | 108.7 NM_024625.3 |
| 166.3 | 143.6 | 113.3 | 124.9 NM_024625.3 |

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| 1378.3 | 889.5 | 945 | 516.1 NM_020119.3 |
| 86.4 | 85.7 | 91.6 | 88.5 NM_080660.2 |
| 1834.5 | 1103.2 | 1140.7 | 828.9 NM_016478.3 |
| 103 | 95.7 | 96.8 | 95.5 NM_017665.1 |
| 240.9 | 335.4 | 265.1 | 238.4 NM_001009881.1 |
| 144.8 | 183.6 | 146.5 | 147.3 NM_015269.1 |
| 86.2 | 82.8 | 89.3 | 88.8 NM_173798.2 |
| 73.1 | 83.6 | 78.8 | 80.1 NM_203303.1 |
| 353.6 | 401.7 | 360.4 | 308.4 NM_015144.1 |
| 95.1 | 78.7 | 84 | 87.5 NM_001004308.1 |
| 882.9 | 902.5 | 699.3 | 683.4 NM_016505.2 |
| 92.4 | 93.2 | 86.3 | 93.4 NM_017742.3 |
| 340.5 | 321.9 | 253.6 | 259.3 NM_033089.6 |
| 119.3 | 109.4 | 93.6 | 100.6 NM_152694.1 |
| 100.8 | 109.9 | 99 | 98.9 NM_024617.2 |
| 1020.4 | 780.8 | 757.8 | 693.1 NM_032226.1 |
| 379.3 | 476.4 | 407 | 382.9 NM_017612.2 |
| 1456.9 | 1798.4 | 1315.9 | 1293.6 NM_032280.1 |
| 2167.7 | 1171.4 | 1097.6 | 1001.4 NM_018464.2 |
| 178.4 | 159.4 | 166.4 | 143.5 NM_033114.3 |
| 330.2 | 237.7 | 209 | 219.2 NM_206831.1 |
| 406.5 | 242.1 | 211.2 | 296.8 NM_181706.3 |
| 171.2 | 233 | 275 | 147 NM_017984.2 |
| 109 | 160.9 | 139.4 | 136.4 NM_001040432.1 |
| 78.8 | 76.1 | 80.2 | 81.3 NM_033317.2 |
| 90.6 | 75.7 | 78.1 | 89.9 NM_033317.2 |
| 96.3 | 96.3 | 87.8 | 85.8 NM_033317.2 |
| 157 | 107.2 | 106 | 91.5 NM_013304.1 |
| 111.5 | 164.1 | 164.9 | 134.5 NM_024786.1 |
| 92.7 | 97.4 | 94.2 | 103.4 XM_940764.1 |
| 388.8 | 310.1 | 256.5 | 304 NM_032799.4 |
| 416.2 | 342.4 | 273.5 | 274.6 NM_001001483.1 |
| 177.2 | 166.3 | 138 | 138.7 NM_001001483.1 |
| 131.6 | 109.7 | 103.2 | 98.2 NM_019028.2 |
| 183.4 | 221.3 | 217.6 | 174.6 NM_024630.2 |
| 76.1 | 82.6 | 79.4 | 83.4 NM_144969.1 |
| 387 | 287.7 | 232.9 | 213.9 NM_032327.2 |
| 97.1 | 97 | 97.1 | 81.1 NM_198046.1 |
| 1338.3 | 932.2 | 939.1 | 594.5 NM_198044.1 |
| 242.4 | 243.2 | 254.2 | 268.1 NM_015336.1 |
| 146.7 | 141.7 | 106.8 | 122.7 NM_032283.1 |
| 98 | 99.2 | 106.8 | 99.5 NM_144637.2 |
| 103.9 | 104.6 | 101.4 | 110.8 NM_016353.2 |
| 104.1 | 112.3 | 106.2 | 94.9 NM_153251.2 |
| 84.8 | 81.2 | 90.5 | 90.5 NM_178566.2 |
| 77.3 | 87.2 | 86.8 | 91.2 NM_174976.1 |
| 109.2 | 116.8 | 109.7 | 92.4 NM_173570.2 |
| 121.2 | 110.6 | 99.4 | 102.1 NM_207340.1 |
| 282.5 | 300 | 215.6 | 248.9 NM_016598.1 |
| 85.9 | 86 | 85.6 | 89.1 NM_018106.2 |

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| 420.1 | 467 | 443.1 | 316.7 NM_015457.2 |
| 1456.3 | 721.8 | 530.8 | 692.6 NM_022494.1 |
| 743.2 | 697.7 | 730 | 521.1 NM_017740.1 |
| 1672.2 | 2012 | 2464.9 | 987.1 NM_013373.2 |
| 655.5 | 350.8 | 359.8 | 202.5 NM_016032.2 |
| 92.5 | 99.5 | 97.7 | 94.5 NM_001008222.1 |
| 103.2 | 94.2 | 85.2 | 98.1 NM_016032.2 |
| 284.5 | 285.1 | 246.1 | 198.7 NM_021212.1 |
| 269.2 | 225.7 | 197.7 | 179.5 NM_024699.1 |
| 600.8 | 540.6 | 537.2 | 321.2 NM_182491.1 |
| 597.6 | 548.9 | 550.6 | 328.3 NM_138802.1 |
| 200.8 | 281.3 | 243.7 | 215.3 NM_021943.1 |
| 168 | 184.1 | 154 | 170.6 NM_019006.2 |
| 687.9 | 703.5 | 579.3 | 894.4 NM_014795.2 |
| 95.3 | 83 | 79.5 | 81.2 NM_024721.2 |
| 98.2 | 96.4 | 96.9 | 98.4 NM_153688.2 |
| 622.4 | 1188.2 | 844.8 | 806.1 NM_022473.1 |
| 323.8 | 362.6 | 311.6 | 251.3 NM_003409.2 |
| 146.9 | 150.8 | 149.9 | 141 NM_030613.2 |
| 318.9 | 323.4 | 291.6 | 224.9 NM_001012756.1 |
| 107.8 | 103.5 | 100.9 | 92.7 NM_020828.1 |
| 183.9 | 166.5 | 173.4 | 160.7 NM_153018.1 |
| 968.4 | 756.8 | 816 | 281.5 NM_003407.1 |
| 93.6 | 93.7 | 89.2 | 92.3 NM_004926.2 |
| 678.5 | 665 | 530.5 | 453.6 NM_006887.3 |
| 87.6 | 80.3 | 90.2 | 87 NM_003408.1 |
| 96.7 | 95 | 95.4 | 89.8 NM_173832.3 |
| 87.8 | 88.5 | 90.9 | 87.6 XM_944871.1 |
| 92.4 | 87.4 | 91.2 | 91.2 NM_174900.2 |
| 129 | 111.8 | 108.8 | 106.3 NM_199427.1 |
| 113.2 | 115.1 | 110.9 | 118.3 NM_199426.1 |
| 656.1 | 511.1 | 527.9 | 336.7 NM_133458.1 |
| 2598.2 | 2948.4 | 2331.7 | 2355.5 NM_053023.2 |
| 132.7 | 161.6 | 152.3 | 146.8 NM_170768.1 |
| 99.6 | 93.9 | 92.1 | 95.2 NM_145102.1 |
| 85.2 | 84.7 | 85.1 | 79.4 NM_014569.2 |
| 130.1 | 136.3 | 130.8 | 118.2 NM_014569.2 |
| 140.8 | 135.9 | 115.7 | 126.2 NM_006782.3 |
| 271.6 | 205.7 | 189.9 | 214.6 NM_153813.1 |
| 78.3 | 74.8 | 78.7 | 82.3 NM_012082.2 |
| 1138.1 | 636.2 | 635 | 441.9 NM_016107.3 |
| 133.1 | 130.8 | 122 | 143.9 NM_003410.2 |
| 175.7 | 152.1 | 145 | 161.3 NM_003411.2 |
| 101.6 | 103.1 | 98.6 | 93.2 NM_021260.1 |
| 106.6 | 100.7 | 97.8 | 94.9 NM_021260.1 |
| 158 | 152.8 | 167.2 | 134.1 NM_014733.2 |
| 352.5 | 467.9 | 415.4 | 406.1 NM_032850.3 |
| 668.5 | 698.3 | 715.4 | 499.9 NM_022340.2 |
| 852.3 | 612.3 | 583.4 | 493.6 NM_024071.2 |
| 319.7 | 487.6 | 478.3 | 301.9 NM_015346.2 |

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| 96 | 86.6 | 77.1 | 87.9 NM_001002262.1 |
| 129.5 | 106 | 115.1 | 114 NM_144588.4 |
| 82.3 | 81.7 | 76.6 | 87.1 NM_020972.1 |
| 101.4 | 103.1 | 94.3 | 92.1 NM_007323.1 |
| 97.3 | 82.5 | 82.7 | 86.9 NM_007323.1 |
| 87.7 | 95.6 | 87.8 | 98.1 NM_007324.2 |
| 90 | 96.3 | 95.9 | 93.2 NM_004799.2 |
| 103.4 | 108.5 | 105.6 | 98.7 NM_181485.1 |
| 88.7 | 86 | 87.9 | 92.1 NM_032527.2 |
| 545.6 | 465.8 | 474.8 | 253.5 NM_032527.2 |
| 114.8 | 101.5 | 105.9 | 102.1 NM_181484.1 |
| 172.3 | 139.9 | 129.8 | 147.6 NM_007222.3 |
| 92 | 87.3 | 95.2 | 101.3 NM_001017926.1 |
| 145.7 | 127 | 111.4 | 106.7 NM_007222.3 |
| 143.7 | 159.4 | 161.8 | 117.2 NM_014943.3 |
| 126.5 | 155.5 | 168.7 | 119.3 NM_015035.3 |
| 85.2 | 90.8 | 83.4 | 84 NM_003412.3 |
| 1579.1 | 1099.3 | 897.4 | 762.4 NM_007129.2 |
| 89.4 | 76.4 | 76.8 | 77.8 NM_003413.2 |
| 89.9 | 84 | 80.4 | 84.2 NM_032153.3 |
| 102.3 | 93.3 | 93.7 | 97.5 NM_033132.2 |
| 85.8 | 74.9 | 77.9 | 88 NM_001010879.1 |
| 83.4 | 78.5 | 71.2 | 84.7 NM_015363.3 |
| 81.3 | 83.6 | 83.9 | 81 NM_052882.1 |
| 113.2 | 117.6 | 102.1 | 121.9 NM_003439.1 |
| 103 | 100.1 | 95.9 | 103.8 NM_001011656.1 |
| 87.7 | 92.9 | 92.6 | 91.1 NM_032441.1 |
| 96.8 | 85.7 | 81.3 | 84.4 NM_032441.1 |
| 1058.9 | 1012.5 | 797.9 | 514.9 NM_144723.1 |
| 2334.5 | 2454 | 2887.7 | 2769.5 NM_152240.1 |
| 89.7 | 85.9 | 93.5 | 91 NM_019103.2 |
| 249.2 | 188 | 175.4 | 144.9 NM_019103.2 |
| 117.8 | 119.3 | 111.8 | 123.2 NM_174929.2 |
| 11254.4 | 8743.1 | 7481.4 | 6386.8 NM_005857.2 |
| 320 | 301.1 | 324.2 | 244.7 NM_024772.2 |
| 95.9 | 79.5 | 77.2 | 92 NM_005096.2 |
| 149.7 | 184.6 | 164 | 164.3 NM_005096.2 |
| 103.1 | 103.8 | 99.4 | 93.3 NM_201599.1 |
| 408 | 704 | 689 | 663 NM_005095.2 |
| 141 | 144.7 | 133.4 | 132.1 NM_014242.1 |
| 131 | 142.1 | 142.5 | 132.9 NM_001039649.1 |
| 103.9 | 95 | 101.4 | 95.5 NM_007167.3 |
| 99.1 | 97.9 | 95.6 | 95.8 NM_015896.2 |
| 116.5 | 97.7 | 94.4 | 100.9 NM_212479.1 |
| 94.5 | 89 | 95 | 99 NM_212479.1 |
| 103.3 | 137.2 | 127.7 | 97.6 NM_032257.3 |
| 82.9 | 85.6 | 78.5 | 88.4 NM_032265.1 |
| 93.3 | 97.8 | 109.6 | 105 NM_001024593.1 |
| 1323.5 | 1070.5 | 968.1 | 555.6 NM_138462.2 |
| 135.8 | 169.3 | 148.6 | 154.2 NM_183048.1 |

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| 148.3 | 134 | 127.8 | 128.2 NM_015394.4 |
| 92.2 | 81.8 | 89.4 | 89.9 NM_173531.1 |
| 164.1 | 132.2 | 133.5 | 125.4 NM_033204.2 |
| 115.4 | 102.5 | 100.6 | 94.7 NM_153608.1 |
| 86.5 | 83.3 | 84.3 | 91.8 NM_024498.1 |
| 176.3 | 215.3 | 186.6 | 207.1 NM_006955.1 |
| 118.9 | 137.6 | 120 | 167.2 NM_016265.2 |
| 86.7 | 93.1 | 84.8 | 88.2 NM_001008727.1 |
| 117.9 | 106.8 | 103.1 | 102.6 NM_003431.2 |
| 85.5 | 84 | 83.3 | 89.6 NM_003432.1 |
| 99.9 | 90.6 | 80.4 | 87.4 NM_003433.2 |
| 147.3 | 182.7 | 179.6 | 162.4 NM_003434.3 |
| 178 | 142.1 | 142.3 | 109.5 NM_003435.2 |
| 80.7 | 83 | 84.1 | 96 NM_003436.2 |
| 130 | 103.9 | 99.5 | 110.8 XM_936978.1 |
| 157.8 | 139 | 114.7 | 119 NM_003437.2 |
| 98.6 | 114.6 | 124.1 | 107.6 NM_003438.1 |
| 92.1 | 83.6 | 82.6 | 86.7 NM_021030.2 |
| 102.8 | 109.4 | 102.8 | 100.6 NM_003440.2 |
| 94.2 | 88.4 | 79.8 | 97.8 NM_003441.1 |
| 212 | 176.1 | 194.4 | 140.9 NM_005081.2 |
| 377 | 343.9 | 260.1 | 325.8 NM_003442.3 |
| 784.8 | 593 | 471.8 | 548.6 NM_007145.1 |
| 1349.4 | 1437.3 | 1249.6 | 1032.6 NM_021964.1 |
| 105 | 87.9 | 91.7 | 86.7 NM_198089.1 |
| 96.4 | 93.2 | 85.7 | 91 NM_003445.2 |
| 98 | 91.3 | 82.5 | 94.6 NM_198089.1 |
| 78.3 | 80.8 | 84.9 | 79.5 NM_003446.2 |
| 205.2 | 173.9 | 152.3 | 125.4 NM_006958.2 |
| 92.1 | 87.1 | 86 | 88 NM_001029976.1 |
| 154.8 | 125 | 107.9 | 114.7 NM_001029976.1 |
| 169.3 | 215.6 | 194.7 | 186.1 NM_033288.2 |
| 101.2 | 106.2 | 105.2 | 108.5 NM_198893.1 |
| 215.2 | 347.6 | 432.1 | 282 NM_033288.2 |
| 848.4 | 1022.4 | 983.8 | 599.6 NM_007146.2 |
| 125.5 | 104.4 | 104.2 | 106 NM_003447.2 |
| 98.6 | 96 | 102.9 | 91.6 NM_018651.2 |
| 87.2 | 85.1 | 79.7 | 88.6 NM_025169.1 |
| 93.4 | 86.5 | 85.5 | 87.1 NM_025169.1 |
| 128.9 | 119.7 | 124.1 | 111.6 NM_194320.1 |
| 307.7 | 249.8 | 212.3 | 190.1 NM_006959.1 |
| 111.4 | 107.4 | 103.4 | 97.5 NM_001032292.1 |
| 143 | 131.1 | 124.8 | 118.8 NM_003450.1 |
| 103.5 | 102 | 96 | 98.4 NM_001032292.1 |
| 255.7 | 186 | 188.9 | 169.6 NM_007147.2 |
| 257.3 | 268.4 | 243.8 | 246.1 NM_003451.1 |
| 111.8 | 103.8 | 98.2 | 103 NM_007148.2 |
| 176.1 | 190.5 | 158.5 | 166.4 NM_144680.2 |
| 95.7 | 107.6 | 106.2 | 102.4 NM_001029997.1 |
| 294.4 | 347.8 | 277.7 | 310.8 NM_001007088.1 |

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| 102.6 | 97.1 | 92.6 | 109.9 NM_007149.1 |
| 91.2 | 94.4 | 81.3 | 86.6 NM_007151.1 |
| 111.1 | 119.2 | 121 | 112.8 NM_001023560.1 |
| 539.2 | 380.1 | 353.5 | 341 NM_003452.2 |
| 82.1 | 93.7 | 94.7 | 98.7 NM_197977.1 |
| 84 | 84.2 | 85 | 82.2 NM_006961.2 |
| 100.7 | 88.8 | 90.8 | 86.4 NM_006298.2 |
| 189 | 186 | 160.8 | 163.5 NM_006299.2 |
| 500.9 | 356.5 | 266.1 | 346.7 NM_007152.1 |
| 178.6 | 156.3 | 145.7 | 129.7 NM_006991.3 |
| 97.8 | 94.4 | 88.6 | 93.6 NM_001024855.1 |
| 153.6 | 152.2 | 145.7 | 135.1 NM_001024855.1 |
| 169.1 | 156.8 | 170.6 | 138.1 NM_021088.2 |
| 83.7 | 100.1 | 83.2 | 93.9 NM_021088.2 |
| 241.4 | 204 | 204.1 | 156 NM_021143.1 |
| 99.2 | 95.3 | 78.4 | 79.2 NM_003454.2 |
| 184.8 | 153.4 | 145.2 | 133.2 NM_198088.1 |
| 503.6 | 446.2 | 373.9 | 330.5 NM_198088.1 |
| 186.9 | 115.3 | 105.8 | 104.7 NM_003455.2 |
| 83.4 | 88.6 | 90.2 | 84.8 NR_002722.1 |
| 91.6 | 89.3 | 91.4 | 83.2 NM_001042428.1 |
| 115.8 | 108.7 | 92.8 | 98.7 NM_001031686.1 |
| 92.6 | 85.3 | 89.3 | 86 NM_032805.1 |
| 3378.5 | 1628.6 | 1520.5 | 1317.1 NM_003457.2 |
| 3004.5 | 1918.7 | 1947.3 | 1497.6 NM_003457.2 |
| 83.9 | 81.5 | 76.7 | 86.4 NM_007153.1 |
| 85.9 | 102.1 | 85.4 | 92.2 NM_006962.1 |
| 230.5 | 210.6 | 217.3 | 178.4 NM_006385.2 |
| 237.1 | 242.2 | 260 | 202.8 NM_012256.2 |
| 322.6 | 210.3 | 200.1 | 135.1 NM_004220.1 |
| 91.2 | 85.1 | 78.1 | 84.7 NM_013249.1 |
| 130.1 | 111.7 | 108.3 | 106.5 NM_013250.1 |
| 828.7 | 833.5 | 668.8 | 685.3 NM_006526.2 |
| 97.3 | 90.5 | 83.4 | 96.5 NM_173485.2 |
| 164.9 | 142.5 | 123.1 | 129.1 NM_016423.1 |
| 876 | 682.6 | 658.6 | 599 NM_006963.3 |
| 85.7 | 77.8 | 70 | 82.7 NM_013359.1 |
| 107.3 | 92.4 | 88.7 | 102.2 NM_013360.1 |
| 251.1 | 348.2 | 450.3 | 275.4 NM_013361.2 |
| 152.8 | 144 | 155.6 | 135.8 NM_013398.1 |
| 176.6 | 152.5 | 138.1 | 151.7 NM_013362.1 |
| 97.4 | 105.6 | 98.5 | 100.6 NM_001032374.1 |
| 110.7 | 107.2 | 106.9 | 112.2 NM_015919.3 |
| 123.7 | 125.6 | 105.4 | 122.6 NM_182490.1 |
| 95.7 | 90.9 | 88.8 | 87.9 NM_013380.2 |
| 94.2 | 82.2 | 78.7 | 78.3 NM_014518.1 |
| 107 | 87.3 | 96.1 | 84.3 NM_145911.1 |
| 186.6 | 175.4 | 153.1 | 173.9 NM_006300.2 |
| 132.3 | 88.8 | 91.7 | 79.5 NM_014519.2 |
| 90.6 | 83.7 | 82.1 | 93.1 NM_181756.1 |

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| 198.5 | 197.6 | 195.8 | 154.7 NM_006630.1 |
| 178.2 | 157.3 | 152.8 | 158.5 NM_004234.3 |
| 136.8 | 131.5 | 142.4 | 114.8 NM_007345.1 |
| 95.1 | 98.5 | 92.8 | 108.5 NM_205768.1 |
| 88.5 | 79.2 | 82.4 | 79.4 NM_205768.1 |
| 103.7 | 109.5 | 97.8 | 92.5 NM_006352.3 |
| 234.2 | 159.6 | 139.9 | 133.3 NM_005674.1 |
| 161.7 | 153.6 | 125.8 | 140.9 NM_006965.1 |
| 103.4 | 96.5 | 95 | 90.9 NM_021045.1 |
| 359.3 | 349.9 | 300.5 | 243.5 NM_145011.2 |
| 234.3 | 207.9 | 195.4 | 161.2 NM_021061.1 |
| 100.5 | 79.1 | 76.7 | 85.3 NM_021047.1 |
| 143.1 | 141.3 | 118.2 | 132 NM_004876.2 |
| 142.1 | 121.5 | 109.7 | 109.2 NM_005773.2 |
| 81.5 | 87.8 | 81.1 | 90.1 NM_033468.1 |
| 226.4 | 193.1 | 136.8 | 175.5 NM_003904.3 |
| 336.4 | 317.3 | 307.5 | 232.9 NM_019591.2 |
| 526.9 | 368.6 | 422.6 | 315.5 NM_005741.3 |
| 178.9 | 157.4 | 200.2 | 138.6 NM_003417.2 |
| 222.1 | 287.9 | 251.3 | 213 NM_005455.3 |
| 637.6 | 690.7 | 546.9 | 563.8 NM_005455.3 |
| 192.9 | 195.5 | 173.1 | 163.8 NM_198058.1 |
| 130.3 | 130.3 | 108.2 | 149.1 NM_006631.2 |
| 100.6 | 111.9 | 92.4 | 111.1 NM_006631.2 |
| 72.6 | 75.7 | 74.9 | 77.2 NM_003414.3 |
| 92.7 | 90.4 | 79.9 | 91.1 NM_003415.1 |
| 94.6 | 87.1 | 89.5 | 87.6 NM_152943.1 |
| 215 | 298.3 | 245.6 | 236.9 NM_006629.3 |
| 136.6 | 122 | 118.6 | 137.1 NM_021148.1 |
| 98.3 | 98.2 | 94.4 | 91.1 NM_021148.1 |
| 934.7 | 708.9 | 620.5 | 522 NM_016324.2 |
| 110.8 | 97.2 | 97.8 | 99.1 NM_133502.1 |
| 272.8 | 186.3 | 156.9 | 143.5 NM_016324.2 |
| 427.9 | 520.5 | 478 | 349.9 NM_001080485.1 |
| 93.4 | 92.6 | 89.5 | 90.2 NM_001080485.1 |
| 105.3 | 89.3 | 95.9 | 95.2 NM_152287.2 |
| 787.2 | 814.5 | 789.7 | 609.9 NM_021994.1 |
| 118.7 | 100.6 | 99.2 | 108.6 NM_032051.1 |
| 79.9 | 79.9 | 72.3 | 86.2 NM_014323.2 |
| 87.6 | 89.7 | 80.8 | 95.9 NM_006969.2 |
| 81.4 | 83.3 | 78.3 | 83.8 NM_001037813.1 |
| 158.8 | 128.7 | 110.6 | 109.3 NM_152354.2 |
| 146.9 | 124.5 | 121.3 | 127 NM_020652.1 |
| 85.1 | 82 | 73.3 | 83.2 NM_020653.1 |
| 303.6 | 263.8 | 278.2 | 171.3 NM_032389.3 |
| 138.2 | 181.3 | 153.4 | 150.8 NM_020843.1 |
| 105.3 | 94.3 | 101.2 | 104 NM_015565.1 |
| 227.7 | 257.5 | 220.3 | 255.1 NM_020727.3 |
| 234.7 | 307.1 | 294.8 | 226.7 NM_014007.2 |
| 135.8 | 147.3 | 122.6 | 129.3 NM_017715.2 |

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| 139.5 | 128.1 | 129.6 | 134.3 NM_017715.2 |
| 130.1 | 107.9 | 104.3 | 96.3 NM_032924.2 |
| 101.2 | 105.7 | 94.9 | 98.3 NM_017715.2 |
| 142.2 | 178.1 | 153 | 156.1 NM_194325.1 |
| 83.6 | 88.3 | 70.7 | 80.7 NM_052860.1 |
| 89.7 | 86.1 | 82.9 | 89.6 NM_001012320.1 |
| 111.9 | 94.3 | 104.2 | 100.6 NM_020657.1 |
| 148.1 | 115.8 | 107.6 | 120 NM_024493.1 |
| 174.9 | 206.4 | 190.3 | 140.9 NM_019110.3 |
| 92.4 | 95.6 | 81.1 | 87.9 NM_145238.2 |
| 101.8 | 115.1 | 112 | 110.3 NM_001010877.2 |
| 75.3 | 83.1 | 74.9 | 85.1 NM_018008.2 |
| 1039.9 | 1012.4 | 1096.7 | 759.8 NM_018683.3 |
| 293.9 | 216.1 | 206.3 | 153.2 NM_020933.2 |
| 163 | 219.6 | 186.2 | 229.7 NM_014345.2 |
| 393.5 | 302.6 | 282.9 | 207.9 NM_020807.1 |
| 94.6 | 83.7 | 88.6 | 89.6 NM_001005368.1 |
| 215.7 | 168.5 | 169.8 | 152.7 NM_006973.2 |
| 185.7 | 146.2 | 132.4 | 135.4 NM_006973.2 |
| 97.8 | 105.7 | 90.6 | 86.6 NM_207333.2 |
| 92.5 | 96.9 | 81 | 82.9 NM_024639.2 |
| 91.8 | 92.4 | 75.7 | 77.7 NM_199005.1 |
| 112.4 | 114 | 104.6 | 131.3 NM_145909.1 |
| 92.3 | 88.8 | 92 | 92.3 NM_030899.2 |
| 246.5 | 238 | 199.7 | 227.9 NM_014347.1 |
| 107.8 | 113.5 | 89.1 | 85.4 NM_182976.1 |
| 97.6 | 92.7 | 88.5 | 89.9 NM_181781.2 |
| 142.2 | 137.3 | 135 | 117.4 NM_182975.1 |
| 265.5 | 163 | 161 | 152.6 NM_024620.3 |
| 251.5 | 182.9 | 178.8 | 172.2 NM_014487.2 |
| 113.6 | 101 | 106.5 | 104.8 NM_018555.4 |
| 89.1 | 95.7 | 93.6 | 86.9 NM_018555.4 |
| 115.5 | 89.8 | 86.2 | 100.3 NM_018555.4 |
| 127.6 | 131.3 | 117.6 | 156.9 NM_032433.2 |
| 93.8 | 78.6 | 83 | 80.9 NM_199441.1 |
| 105.9 | 101.5 | 81.1 | 95.9 NM_018102.3 |
| 100.2 | 102.6 | 93.1 | 106.6 NM_022095.3 |
| 109.4 | 133.7 | 113.2 | 123.6 NM_022482.3 |
| 394.4 | 335.6 | 334 | 230 NM_015655.2 |
| 135.9 | 137 | 129.3 | 123.5 NM_006974.1 |
| 94.6 | 91.4 | 94.4 | 94.3 NM_006974.1 |
| 176.1 | 143.7 | 148.9 | 135.5 NM_030580.2 |
| 186.2 | 173 | 148.8 | 151.8 NM_032819.3 |
| 564.3 | 294.4 | 296.1 | 163.5 NM_145288.1 |
| 90.1 | 88.3 | 82.9 | 83.4 NM_024325.4 |
| 83.9 | 91.2 | 95.9 | 85.2 NM_003419.2 |
| 133.6 | 154 | 176.7 | 157 NM_012279.2 |
| 103.6 | 88.5 | 88.8 | 89.8 NM_032584.1 |
| 259.4 | 253.6 | 204.5 | 183.2 NM_003420.2 |
| 185.8 | 160.1 | 142.6 | 154.1 NM_021632.3 |

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| 127.8 | 124.3 | 101.3 | 116.4 NM_005649.2 |
| 96.9 | 87.6 | 84.8 | 92.4 NM_058230.1 |
| 81.7 | 83.6 | 76.9 | 85.8 NM_014594.1 |
| 226.9 | 181.1 | 171.7 | 116.3 NM_018083.3 |
| 1142.9 | 937.3 | 837.1 | 518.8 NM_014455.1 |
| 80.8 | 87.5 | 89.1 | 94.2 NM_199452.1 |
| 91.6 | 80.9 | 88 | 92.4 NM_199451.1 |
| 90.6 | 93.7 | 81.5 | 89.6 NM_199450.1 |
| 88.2 | 82.7 | 79.6 | 85.7 NM_014951.1 |
| 164.3 | 227 | 169.1 | 153.7 NM_152625.1 |
| 108.4 | 105.6 | 103.6 | 102.1 NM_153695.2 |
| 91.3 | 91 | 95.7 | 99 NM_003421.1 |
| 80.5 | 73 | 79.6 | 92.8 NM_001007094.1 |
| 102.5 | 95.4 | 72.8 | 97.3 NM_003421.1 |
| 76.1 | 82.1 | 94.3 | 82.1 NM_032825.3 |
| 143.8 | 103.3 | 107.6 | 104.5 NM_152604.1 |
| 97.1 | 93.2 | 92.4 | 95.6 NM_001039919.1 |
| 138.4 | 173.2 | 144.1 | 166 NM_133476.2 |
| 151.9 | 198.8 | 168.4 | 169.6 NM_015481.1 |
| 1247 | 1605.5 | 2212.2 | 1945.7 NM_032164.2 |
| 252.7 | 387.6 | 320.7 | 272.6 NM_018660.2 |
| 111.6 | 110.5 | 106 | 109.1 NM_145756.1 |
| 111.2 | 125.9 | 120.5 | 112.8 NM_032347.1 |
| 101 | 100.2 | 93 | 87.3 NM_020781.2 |
| 208.2 | 184.6 | 166 | 173.7 NM_170686.1 |
| 1084.9 | 1195.9 | 1091.4 | 1049.3 NM_024835.2 |
| 98.5 | 79.1 | 75.5 | 88.4 NM_001033719.1 |
| 96.7 | 105.8 | 90.4 | 103.5 NM_020863.2 |
| 96.4 | 84.5 | 82.4 | 80.4 NM_001029939.1 |
| 84.4 | 89.6 | 88.4 | 94.6 NM_017757.1 |
| 156.3 | 110.9 | 105.7 | 112 NM_024741.1 |
| 87.7 | 92.3 | 90.6 | 83.9 NM_153380.1 |
| 78.4 | 78.8 | 83.3 | 70 NM_007130.1 |
| 113.2 | 108.7 | 100.9 | 96.4 NM_007130.1 |
| 657.4 | 375 | 300.2 | 338.5 NM_021188.1 |
| 137.6 | 124.5 | 131.7 | 109.3 NM_032370.1 |
| 109.1 | 105.4 | 102.9 | 98.9 NM_018355.2 |
| 158.9 | 142.9 | 118.6 | 130.8 NM_017879.1 |
| 135.7 | 129.4 | 128.1 | 132.3 NM_152475.1 |
| 79.9 | 84.1 | 79.1 | 79.4 NM_133460.1 |
| 220.9 | 175.7 | 162 | 147.3 NM_024691.2 |
| 383.5 | 426.2 | 578.7 | 253.3 NM_198055.1 |
| 97.1 | 105.5 | 91.7 | 83.7 NM_198055.1 |
| 92.4 | 90 | 89.2 | 89.1 NM_144689.3 |
| 94.8 | 83.6 | 88.7 | 90.1 NM_015069.2 |
| 126.4 | 120.9 | 118.7 | 136.3 NM_001001661.1 |
| 143.8 | 161.2 | 124.3 | 129.1 NM_024106.1 |
| 108.3 | 96.1 | 92.5 | 102.2 NM_001001415.1 |
| 83.5 | 88.5 | 78.9 | 84.6 NM_003423.2 |
| 2104.4 | 2813.2 | 3693.4 | 2351.8 NM_025189.2 |

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| 176.5 | 138.2 | 117 | 128.9 NM_133473.1 |
| 113.7 | 111.1 | 115.7 | 115.4 NM_014650.2 |
| 146.1 | 154.3 | 140 | 148.1 NM_152602.1 |
| 412.4 | 338.9 | 319.1 | 293.7 NM_017810.2 |
| 131.4 | 114.3 | 94.9 | 112.8 NM_025231.1 |
| 98.5 | 94.6 | 82.1 | 92 NM_030634.1 |
| 90.3 | 81.7 | 84.6 | 80.8 NM_030634.1 |
| 88.6 | 94.6 | 85.2 | 89.5 NM_030634.1 |
| 442.7 | 334.6 | 274.7 | 217 NM_182755.1 |
| 129.5 | 146.6 | 155.1 | 166.4 NM_152262.1 |
| 93.7 | 76.7 | 76 | 90.1 NM_016264.2 |
| 121 | 133.5 | 147.6 | 131.3 NM_001012753.1 |
| 110.2 | 108.7 | 93.7 | 106.9 NM_152355.1 |
| 137 | 130.2 | 136.9 | 124.2 NM_030824.1 |
| 308.3 | 262.5 | 212.6 | 205.2 NM_005815.2 |
| 169.5 | 121.2 | 125.5 | 170.6 NM_018337.2 |
| 90.2 | 87.1 | 89.2 | 89.4 NM_181489.4 |
| 167.9 | 149.4 | 143.6 | 119.2 NM_017908.1 |
| 92.9 | 90.9 | 87.2 | 85.7 NM_023926.3 |
| 101.1 | 85.8 | 98.9 | 100.8 NM_152695.3 |
| 307.8 | 249 | 211 | 207.3 NM_003425.2 |
| 89.3 | 87.6 | 85.5 | 89.6 NM_015555.2 |
| 368.2 | 485.2 | 422.2 | 470.6 NM_001031623.1 |
| 119.3 | 126.7 | 137.4 | 167.4 NM_001031623.1 |
| 83.2 | 84.4 | 76.7 | 75.2 NM_052923.1 |
| 91.2 | 86 | 91.2 | 97.3 NM_182594.1 |
| 105.9 | 87.2 | 92.5 | 85.9 NM_006635.2 |
| 156.5 | 90.7 | 85.4 | 92.2 NM_021224.3 |
| 143.7 | 298.5 | 357 | 182.3 NM_207336.1 |
| 91.6 | 91.6 | 80 | 87.1 NM_199132.1 |
| 92.3 | 89.8 | 87.3 | 82.5 NM_020813.1 |
| 399.9 | 282.9 | 224.2 | 206.2 NM_015428.1 |
| 101.7 | 109 | 103.1 | 76.6 NM_015428.1 |
| 85.5 | 96.6 | 92.6 | 84.1 NM_207317.1 |
| 301.4 | 213.5 | 191.2 | 181.8 NM_144684.1 |
| 103.8 | 98.8 | 92.8 | 96.9 NM_006626.3 |
| 81.1 | 72.3 | 76.6 | 75.7 NM_001007169.1 |
| 283 | 419.6 | 496.3 | 438.3 NM_001007169.1 |
| 98.7 | 101.3 | 96.2 | 91.6 NM_133464.1 |
| 133.9 | 128 | 118.6 | 120.4 NM_031486.1 |
| 82.7 | 90.4 | 89.9 | 77.4 NM_145312.2 |
| 91.1 | 97.5 | 88.3 | 90.3 NM_020714.1 |
| 81.5 | 87.3 | 73.3 | 78.1 NM_152356.3 |
| 79.6 | 101.2 | 88.5 | 94.8 NM_001076678.1 |
| 95.5 | 88.4 | 88.7 | 99.7 NM_001076678.1 |
| 97 | 83.6 | 83 | 87.4 NM_032752.1 |
| 100.1 | 85.4 | 85 | 92 NM_198458.1 |
| 94.6 | 91.9 | 81.9 | 84.9 NM_145115.2 |
| 179.9 | 132.3 | 107.1 | 104.5 NM_032792.2 |
| 235.4 | 217.9 | 210 | 263.2 NM_021646.1 |

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| 83.8 | 87 | 84.6 | 82.8 NM_145044.1 |
| 84.5 | 86.4 | 85.3 | 92.2 NM_033210.3 |
| 204.7 | 191.4 | 168.6 | 152.6 NM_032772.3 |
| 119.6 | 109.5 | 109.2 | 93.8 NM_014910.2 |
| 1107.5 | 834.4 | 760 | 502.1 NM_014913.2 |
| 146.2 | 140.8 | 141.3 | 127.2 NM_145291.2 |
| 104.4 | 117.7 | 102.6 | 109.4 NM_014930.1 |
| 764.8 | 453.1 | 516.9 | 302.8 NM_145806.2 |
| 860.8 | 937.2 | 769.6 | 826.8 NM_032434.2 |
| 113.1 | 123 | 111.5 | 115 NM_144631.4 |
| 217.3 | 180.5 | 177.2 | 145.7 NM_032788.1 |
| 97 | 90.1 | 86.7 | 98.6 NM_213605.2 |
| 220 | 219.1 | 215.8 | 188.5 NM_014803.2 |
| 94.1 | 89.1 | 88.2 | 93.9 XM_940357.1 |
| 240.5 | 253.1 | 264.5 | 235.2 NM_145287.1 |
| 460.6 | 399 | 379 | 372.3 NM_015461.1 |
| 294.6 | 270.9 | 249.7 | 226.2 NM_153219.2 |
| 132.5 | 136 | 165 | 128.6 NM_133444.1 |
| 89.1 | 85.4 | 87.4 | 89 NM_032423.2 |
| 354.3 | 293.5 | 339.2 | 271.8 NM_020951.1 |
| 111.9 | 112.5 | 94.6 | 102 NM_020880.2 |
| 115.5 | 160.4 | 139 | 138.4 NM_018181.4 |
| 84.1 | 84.3 | 92.7 | 90.5 NM_152520.3 |
| 112.1 | 100.2 | 82.2 | 81 NM_014717.1 |
| 375.1 | 386.1 | 385.5 | 298.3 NM_020856.1 |
| 100.3 | 96.6 | 108.4 | 111.1 NM_203282.1 |
| 91.9 | 86.8 | 80.3 | 87.8 NM_152606.2 |
| 90.9 | 82.6 | 83.5 | 87.3 NM_194319.1 |
| 148.8 | 130.8 | 124.1 | 133 NM_213598.1 |
| 87.8 | 89.9 | 81.6 | 75.6 NM_014480.1 |
| 192.3 | 129.1 | 129.8 | 114.3 NM_133466.1 |
| 75.4 | 79.1 | 80.5 | 85.4 NM_178544.2 |
| 85.7 | 84 | 84.6 | 90.3 NM_173631.2 |
| 259.8 | 301.4 | 278.3 | 255 NM_152909.2 |
| 5387.8 | 6540.1 | 8327.8 | 8883.5 NM_153263.1 |
| 111 | 94.2 | 103.9 | 105.4 NM_001039654.1 |
| 125.4 | 112.2 | 108.4 | 114.4 NM_138347.2 |
| 94.1 | 95.4 | 88.1 | 80.8 NM_024762.2 |
| 97 | 84.3 | 80.1 | 76.2 NM_152652.1 |
| 89.2 | 89.8 | 89.6 | 95.1 NM_152303.1 |
| 103.8 | 90.8 | 92.9 | 105.3 NM_152791.3 |
| 110.4 | 95.4 | 91.6 | 94.7 NM_024967.1 |
| 82.7 | 83.1 | 74.4 | 82.9 NM_024341.1 |
| 201.5 | 173.3 | 224.3 | 182.8 NM_001044387.1 |
| 134.8 | 132.5 | 127.3 | 141 NM_144693.1 |
| 207.5 | 196.5 | 189.4 | 164 NM_032497.1 |
| 87.4 | 91.6 | 85.1 | 85.4 NM_152476.1 |
| 103.3 | 83.5 | 82.4 | 93.4 NM_152289.1 |
| 348.8 | 345.9 | 356.1 | 287.1 NM_017656.1 |
| 98.9 | 108.6 | 109.1 | 84 NM_145276.1 |

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| 408.7 | 351 | 296.7 | 276.9 NM_144976.2 |
| 132.3 | 122.8 | 114.4 | 123.5 NM_152477.3 |
| 144.6 | 127.4 | 113.8 | 114.8 NM_032838.2 |
| 87.6 | 74.8 | 76.3 | 88.8 NM_152603.2 |
| 92.7 | 103.5 | 90.6 | 94.6 NM_198539.2 |
| 88.6 | 78.8 | 82.2 | 94.6 NM_152484.2 |
| 94.3 | 97.6 | 88.5 | 92.4 NM_144694.1 |
| 89.7 | 89.8 | 78 | 85.9 NM_016536.3 |
| 92 | 89.9 | 83.3 | 84.9 NM_152412.1 |
| 291.7 | 369.9 | 366.7 | 297.8 NM_152360.2 |
| 109.7 | 104.8 | 102.4 | 98.8 NM_022752.3 |
| 81.4 | 85.1 | 75.4 | 77 NM_174945.1 |
| 260.6 | 203.2 | 179.1 | 121.3 NM_024327.1 |
| 330.8 | 413.7 | 496.6 | 487.2 NM_032679.1 |
| 89.2 | 97.6 | 89.6 | 85.5 NM_152600.1 |
| 88.3 | 86.6 | 89.6 | 86.7 NM_207115.1 |
| 164.6 | 135.6 | 139.1 | 131.8 NM_207115.1 |
| 102.1 | 85.3 | 79.3 | 97.3 NM_016202.2 |
| 593.1 | 367.1 | 343.7 | 292.7 NM_016535.3 |
| 84.9 | 76 | 82.4 | 80.1 NM_144690.1 |
| 111.4 | 97.4 | 99.4 | 95.8 NM_173548.1 |
| 200 | 216.6 | 186.8 | 169.6 NM_152655.2 |
| 119.9 | 127.9 | 134.3 | 106.8 NM_199126.1 |
| 85.5 | 86.9 | 78.8 | 86.1 NM_152279.2 |
| 281.8 | 227.2 | 214.2 | 203 NM_017652.1 |
| 487.8 | 358 | 357.2 | 278.1 NM_017652.1 |
| 106.6 | 90.6 | 101.8 | 90.2 NM_017652.1 |
| 100 | 105.3 | 95.4 | 98.8 NM_032828.2 |
| 79.5 | 77.3 | 82.3 | 82.9 NM_001013746.1 |
| 255.2 | 310 | 248.8 | 238.9 NM_016089.1 |
| 102.3 | 99.4 | 92 | 90.9 NM_014630.1 |
| 521.4 | 361.8 | 335.4 | 173.2 NM_015871.2 |
| 68.4 | 79.6 | 72 | 73.9 NM_182524.1 |
| 78.8 | 84.3 | 75 | 98.2 NM_173539.1 |
| 106.3 | 94.7 | 93 | 101.2 NM_001042416.1 |
| 149.9 | 123.1 | 112.3 | 120 NM_152457.1 |
| 1307 | 978.9 | 999.2 | 511.2 NM_178167.2 |
| 87 | 93.1 | 86.4 | 88.6 NM_001007248.1 |
| 91.2 | 89.7 | 79.2 | 88.3 NM_001007247.1 |
| 89 | 90 | 85.2 | 85.6 NM_021998.3 |
| 95.5 | 104.2 | 111 | 99.5 NM_198457.1 |
| 109.6 | 97.7 | 95.9 | 100.5 NM_025027.3 |
| 84.8 | 81.4 | 78.7 | 81 NM_032689.3 |
| 108.9 | 100.3 | 97.8 | 103.8 NM_020747.1 |
| 135.8 | 144.2 | 135.9 | 128 NM_015042.1 |
| 83.6 | 81.2 | 78.1 | 75 NM_173530.1 |
| 112.1 | 91.8 | 106.9 | 99 NM_030972.2 |
| 294.5 | 244.3 | 220.1 | 222.6 NM_001031721.1 |
| 90.7 | 88.7 | 85.4 | 91.3 NM_024840.2 |
| 297.7 | 276.5 | 206 | 237.7 NM_025040.2 |

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| 326.2 | 199.9 | 191.1 | 152.1 NM_198480.2 |
| 183.7 | 152.2 | 130.5 | 124.6 NM_178523.3 |
| 189.8 | 169.2 | 168.8 | 138 NM_133374.1 |
| 88.3 | 81 | 80.5 | 95.6 NM_173656.1 |
| 90.8 | 83.2 | 79.9 | 83.4 NM_175888.1 |
| 401.1 | 397.5 | 381.4 | 309 NM_198484.2 |
| 737 | 658.4 | 552 | 484.4 NM_033414.2 |
| 99.6 | 86.2 | 79.3 | 89.1 NM_014789.3 |
| 98.2 | 94.8 | 100.9 | 97.4 NM_020787.1 |
| 103.2 | 99.3 | 88.5 | 98.5 NM_145233.2 |
| 89 | 97.3 | 89.8 | 95.2 NM_145297.1 |
| 78.9 | 96.9 | 77.4 | 73.9 NM_001076675.1 |
| 108.1 | 111.8 | 98.8 | 92.1 NM_001076675.1 |
| 623.4 | 526.7 | 433 | 383.5 NM_145295.2 |
| 92.4 | 85.3 | 84.1 | 81.8 NM_033113.1 |
| 165.9 | 143.9 | 129.3 | 133.4 NM_001080417.1 |
| 126.4 | 135.8 | 91.7 | 132.6 XM_034819.6 |
| 93.1 | 97 | 98.5 | 96.9 NM_001037735.1 |
| 113.1 | 154.8 | 126.3 | 133.2 XM_929476.1 |
| 91.9 | 89.3 | 85 | 93.3 NM_016331.1 |
| 124.2 | 203.9 | 168.5 | 167.6 NM_152320.1 |
| 228.6 | 211.3 | 245.5 | 298.1 NM_198494.1 |
| 134.7 | 142.5 | 139.1 | 141 NM_023070.1 |
| 99.8 | 90.8 | 79.2 | 91 NM_016620.2 |
| 336.7 | 387.6 | 325.1 | 368.8 NM_016620.2 |
| 164.4 | 170 | 173.2 | 163.6 NM_201269.1 |
| 91.5 | 79.7 | 79.5 | 87.9 NM_152577.1 |
| 121.9 | 121.6 | 99 | 111.1 NM_014699.2 |
| 97.8 | 84.9 | 81.8 | 84.5 NM_001009992.1 |
| 102.6 | 92.6 | 94.9 | 88.8 NM_023074.2 |
| 392.9 | 383.4 | 351.7 | 280.9 NM_172070.2 |
| 154.9 | 164.9 | 164.1 | 112.3 NM_145166.2 |
| 804.7 | 1307.1 | 2122 | 1257.4 NM_014897.1 |
| 244.8 | 204.2 | 208.3 | 128.3 NM_138783.1 |
| 131.1 | 123.7 | 122.1 | 126.6 NM_018293.2 |
| 173 | 178 | 151.6 | 209.9 NM_018293.2 |
| 136.6 | 147.7 | 124 | 155 NM_018293.2 |
| 105 | 100.4 | 92.1 | 121.3 NM_018293.2 |
| 94.9 | 91.3 | 88.5 | 86.4 NM_001009958.1 |
| 99.2 | 103.5 | 85.5 | 96.8 NM_024061.3 |
| 99.8 | 92.5 | 100.4 | 99.5 NM_001009957.1 |
| 172.2 | 219.8 | 210.4 | 186.6 NM_001009956.1 |
| 115.2 | 105.7 | 102.1 | 110.1 NM_033160.4 |
| 79.8 | 83.5 | 79.1 | 86.5 NM_001032297.1 |
| 104.9 | 95.3 | 108.3 | 87.8 NM_024697.1 |
| 126.7 | 130.8 | 122.2 | 124 NM_173658.1 |
| 92.7 | 80.4 | 83.9 | 89.1 NM_207404.2 |
| 161 | 142.8 | 132.3 | 126.1 NM_152437.1 |
| 83.9 | 76.7 | 75.9 | 77.7 NM_024733.2 |
| 87.4 | 84.3 | 88.1 | 79.9 NM_022103.2 |

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| 455.4 | 355.8 | 365.1 | 186.2 NM_024706.3 |
| 237.1 | 271.7 | 307.5 | 240 NM_024804.1 |
| 293.7 | 179.4 | 158.8 | 143.1 NM_033213.2 |
| 284.1 | 217.7 | 225.4 | 151.3 NM_024833.1 |
| 871.8 | 861.2 | 940.8 | 430.4 NM_024836.1 |
| 115.3 | 108.8 | 104.3 | 79.5 NM_017776.1 |
| 95.8 | 90.7 | 84.7 | 92 NM_138330.1 |
| 86.7 | 92.4 | 80.8 | 80 NM_182609.1 |
| 79.9 | 71.6 | 67.2 | 72.1 NM_178549.2 |
| 129.3 | 120 | 132.4 | 139.5 NM_178558.2 |
| 148 | 107.8 | 106.3 | 135 NM_138286.1 |
| 93 | 86.5 | 81.5 | 98 NM_033196.1 |
| 144.5 | 175.7 | 165.6 | 143.4 NM_033196.1 |
| 790.5 | 1033.3 | 1354.4 | 1201.6 NM_033196.1 |
| 89.3 | 82.7 | 85.7 | 88.6 NM_173574.1 |
| 803.8 | 842.8 | 729.3 | 823.1 NM_152373.2 |
| 93.7 | 91.7 | 94.8 | 93.5 NM_020832.1 |
| 107.8 | 105.9 | 118.8 | 96.5 NM_145271.3 |
| 96 | 94.1 | 95.6 | 86.8 NM_145271.3 |
| 555.4 | 574.8 | 546.6 | 305.2 NM_138447.1 |
| 807.7 | 1274.6 | 1728.9 | 1748.1 NM_021915.1 |
| 113.5 | 127.1 | 108.6 | 98.5 NM_152455.2 |
| 177 | 188.5 | 172.3 | 176.5 NM_015911.2 |
| 387.5 | 522.6 | 500 | 441.2 NM_017865.2 |
| 142.6 | 162.7 | 137 | 141.1 NM_001012981.2 |
| 229 | 180.2 | 178.9 | 160.4 NM_020394.2 |
| 355.3 | 265.1 | 261.7 | 182 NM_030895.1 |
| 102.1 | 97.4 | 91.7 | 84.7 NM_198535.1 |
| 584.2 | 492.2 | 369.1 | 429.7 NM_003416.1 |
| 93.5 | 83.8 | 77.2 | 84.4 NM_021916.2 |
| 977.6 | 1020.4 | 1003.5 | 844.1 NM_144566.1 |
| 102.5 | 95.7 | 94.6 | 86.6 NM_018260.1 |
| 87.4 | 90.3 | 80.1 | 80.8 NM_024924.3 |
| 80.6 | 90.2 | 80.7 | 79.4 NM_025069.1 |
| 93.4 | 83.1 | 87.2 | 96 NM_025069.1 |
| 109 | 97.6 | 103 | 96.2 NM_001033723.1 |
| 167.3 | 138.4 | 126.6 | 128.8 NM_001042511.1 |
| 113.1 | 99 | 91.7 | 116.1 NM_001042510.1 |
| 185.7 | 160.7 | 152.3 | 132.5 NM_016096.2 |
| 185 | 164.7 | 138.9 | 130 NM_173831.2 |
| 84.7 | 85.4 | 89.6 | 84.6 NM_021269.1 |
| 85.9 | 91.6 | 83.4 | 83.8 NM_152601.2 |
| 97.7 | 101.3 | 83.7 | 94.8 NM_021216.3 |
| 82.8 | 73.5 | 77.2 | 81.2 NM_198526.1 |
| 100.9 | 101 | 96.1 | 100 NM_182633.1 |
| 98.6 | 89.7 | 84.2 | 91.9 NM_182515.1 |
| 103.5 | 99.7 | 97.5 | 97.6 NM_001039127.2 |
| 519 | 323.7 | 325.8 | 369.5 NM_133474.1 |
| 89.8 | 88.7 | 87.2 | 83.5 NM_003426.1 |
| 110.9 | 100 | 98.6 | 94.9 NM_003426.1 |

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| 147.2 | 140.6 | 131.4 | 122.8 NM_003426.1 |
| 100.4 | 100.5 | 108.6 | 114.8 NM_001004304.2 |
| 74 | 72.3 | 74.4 | 79 NM_001023561.1 |
| 172.6 | 214.3 | 199.7 | 186.6 NM_007131.2 |
| 138.1 | 147.9 | 109.6 | 129.9 NM_153028.1 |
| 199.4 | 226.9 | 209.6 | 201.5 NM_003427.3 |
| 75.8 | 72.5 | 71.9 | 78.8 NM_001040185.1 |
| 189.7 | 188.4 | 201.7 | 150.8 NM_024910.1 |
| 216.3 | 197.9 | 161 | 164.5 NM_021217.1 |
| 89.8 | 97.9 | 86.2 | 94.7 NM_152605.2 |
| 107.6 | 100.1 | 89.7 | 101.2 NM_007135.1 |
| 98.7 | 92.5 | 95.6 | 87.4 NM_021089.1 |
| 117.1 | 98.7 | 99.6 | 101.9 NM_007136.1 |
| 112.8 | 126.9 | 116.6 | 145.4 NM_001023563.1 |
| 95.8 | 86.6 | 86.9 | 95.1 NM_001039886.1 |
| 90.4 | 84.1 | 90 | 84 NM_007137.1 |
| 182.4 | 141.1 | 157.8 | 170.5 NM_018300.2 |
| 102.7 | 90.2 | 89.5 | 99.7 NM_003429.1 |
| 282.7 | 223.2 | 163 | 211.2 NM_003430.1 |
| 88.8 | 93.3 | 88.4 | 90.8 NM_152626.2 |
| 111.3 | 88.4 | 94.7 | 99.3 NM_007139.2 |
| 144.8 | 156.4 | 131 | 127.4 NM_001004126.1 |
| 147.3 | 145.8 | 130.3 | 137.8 NM_031218.2 |
| 94.5 | 98.3 | 89.6 | 91.4 NM_014724.2 |
| 95 | 92.3 | 89.5 | 95 NM_001080409.1 |
| 364.6 | 342.9 | 310.6 | 241.4 NM_006060.2 |
| 101.5 | 107.6 | 98.5 | 104.3 NM_016260.1 |
| 95.7 | 102.7 | 84.5 | 93.1 NM_016260.1 |
| 98.4 | 89.6 | 84.5 | 94.8 NM_183231.1 |
| 145.5 | 123.7 | 127.1 | 116.2 NM_022465.2 |
| 227.6 | 151.4 | 141 | 129.5 NM_022466.2 |
| 329.4 | 241.2 | 236.1 | 193.5 NM_021035.1 |
| 1077.7 | 1053.5 | 1144.2 | 812.9 NM_006349.2 |
| 121.9 | 101.1 | 101.5 | 106.9 NM_014205.2 |
| 2944.7 | 3003 | 2986.8 | 2016.8 NM_004773.2 |
| 88 | 85.1 | 95.6 | 83.7 NM_001033577.1 |
| 259.3 | 285.2 | 353.4 | 242.5 NM_001033577.1 |
| 128.1 | 123.6 | 119.2 | 106.9 NM_031288.1 |
| 215.4 | 134.1 | 157.5 | 147.6 NM_170783.1 |
| 305.6 | 236.1 | 225.3 | 167 NM_170783.1 |
| 258.8 | 172.7 | 157.8 | 149.4 NM_014596.4 |
| 82.5 | 90.1 | 90.6 | 81.4 NM_032268.3 |
| 84.7 | 84.2 | 75.7 | 84.9 NM_147128.3 |
| 85.6 | 85.9 | 92.4 | 91.4 NM_181710.2 |
| 89.3 | 91.7 | 94.1 | 88.1 NM_207341.2 |
| 96.9 | 80.3 | 88.3 | 90.3 NM_003460.1 |
| 101.8 | 95.2 | 92.9 | 91.7 NM_007155.4 |
| 87.3 | 82.4 | 78.9 | 78.5 NM_021186.2 |
| 97.3 | 86 | 85.9 | 91.2 NM_007009.1 |
| 92.5 | 98.3 | 93.2 | 92 NM_198844.2 |

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| 78.3 | 92.9 | 86.7 | 86.3 NM_199321.1 |
| 80.5 | 75.8 | 86 | 84.4 NM_198844.1 |
| 79.8 | 83.4 | 73.1 | 84.4 NM_175056.1 |
| 146.2 | 124.2 | 120.5 | 119.9 NM_017580.1 |
| 104.1 | 91.7 | 90.3 | 96.2 NM_032143.2 |
| 96.5 | 87 | 81.3 | 95.4 NM_014377.1 |
| 88.5 | 78.8 | 79.3 | 86.3 NM_182572.2 |
| 116.7 | 116.2 | 114.3 | 113.5 NM_017894.4 |
| 184.4 | 244.6 | 275.9 | 183.3 NM_181877.3 |
| 106.9 | 104.2 | 121.3 | 102.4 NM_001007072.1 |
| 85.3 | 85.3 | 85.6 | 88.7 NM_001007072.1 |
| 92.7 | 83.6 | 90.2 | 89.6 NM_152677.1 |
| 180.5 | 127.5 | 137.1 | 121.9 NM_024303.1 |
| 405.3 | 379 | 415 | 269.4 NM_080603.3 |
| 87.5 | 81.7 | 85.4 | 84.8 NM_182521.2 |
| 92.2 | 91.8 | 100.8 | 98.5 NM_080752.2 |
| 204.8 | 204.8 | 165.2 | 157.3 NM_080752.2 |
| 104.5 | 98.6 | 88.1 | 94.3 NM_080752.2 |
| 92.5 | 107.3 | 91.5 | 84 NM_080752.2 |
| 197.7 | 208.3 | 193 | 137.5 NM_023072.1 |
| 768.2 | 698.2 | 627.8 | 416.9 NM_004724.2 |
| 136.4 | 103 | 92 | 108.8 NM_017975.2 |
| 117.4 | 106.9 | 89.6 | 96.7 NM_017975.2 |
| 1370.6 | 1005.7 | 791.3 | 721.5 NR_003105.1 |
| 118.2 | 104.6 | 100.8 | 94 NM_032997.2 |
| 290.9 | 162 | 150.8 | 180.5 NM_001005413.1 |
| 102.3 | 88.7 | 83 | 90.6 NM_001005414.1 |
| 101.7 | 109.3 | 105.1 | 104.1 NM_007156.3 |
| 91.3 | 100.5 | 91.4 | 84.7 NM_007156.3 |
| 121.3 | 121.6 | 117.5 | 123.1 NM_007157.3 |
| 105.3 | 105.2 | 99.9 | 93.3 NM_001040653.1 |
| 196.5 | 242.3 | 288.7 | 161.2 NM_025112.3 |
| 94.2 | 89.5 | 90.5 | 92.4 NM_001004339.1 |
| 905.9 | 1264.4 | 1222.9 | 1055.8 NM_024646.1 |
| 120.2 | 120.6 | 116.8 | 104.7 NM_006336.2 |
| 535.6 | 567.3 | 502.6 | 395.7 NM_003461.4 |
| 2246.9 | 2026.7 | 2057.2 | 1150 NM_003461.4 |
| 173.7 | 277.1 | 283.3 | 190.5 NM_015113.3 |
| 533.8 | 366.1 | 360.2 | 401.7 NM_015534.3 |