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ABCA10_6_1, 7513, 6303, 7940, 6958, 6288, 9245, 6856, 8730, 10059, 3687, 11390, 6857

ABCA13_6_2, 4129, 2774, 4014, 4185, 3674, 2991, 4575, 4499, 2678, 4198, 4607, 4517

ABCA1_6_3, 3164, 2495, 4334, 3993, 3342, 2766, 4221, 4689, 2461, 3892, 4929, 5326

ABCA3_6_4, 1742, 2232, 2201, 2908, 1235, 2458, 1578, 1152, 2197, 2810, 4292, 2265

ABCA4_6_5, 13359, 10785, 13003, 14362, 13453, 12074, 12188, 15902, 11802, 12078, 15116, 10460

ABCA6_6_6, 4177, 4568, 5336, 5612, 3075, 6123, 5659, 4697, 3661, 5792, 5030, 5624

ABCA7_6_7, 1439, 1558, 1611, 1459, 1665, 1835, 1730, 2996, 892, 2202, 2393, 1735

ABCA8_6_8, 501, 716, 830, 709, 939, 251, 1015, 553, 201, 981, 894, 856

ABCA9_6_9, 12865, 12786, 15688, 14312, 13331, 19052, 16972, 15828, 13400, 16333, 18601, 14382

ABCB10_6_10, 689, 725, 1040, 648, 1292, 962, 335, 416, 137, 610, 1359, 328

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ABCB1_6_12, 24666, 22097, 26521, 27373, 24048, 25014, 23235, 24397, 20999, 32354, 30820, 23392

ABCB6_6_13, 3381, 2677, 3832, 3388, 3997, 3281, 2248, 2501, 854, 4717, 2781, 4921

ABCB7_6_14, 1532, 2053, 1686, 1682, 4170, 1810, 821, 1349, 996, 1997, 2655, 1324

ABCB8_6_15, 2261, 1963, 2319, 2599, 2080, 1764, 3018, 1577, 1654, 2183, 4711, 1982

ABCC12_6_16, 3047, 2872, 3435, 2742, 1340, 1492, 2871, 2389, 916, 5781, 2239, 4222

ABCC2_6_17, 658, 598, 926, 963, 1735, 689, 662, 1304, 385, 1368, 2026, 282

ABCC8_6_18, 4000, 3806, 4153, 3854, 3953, 4465, 4667, 2205, 4515, 3072, 4264, 5352

ABCD1_6_19, 523, 134, 440, 456, 21, 1690, 372, 1398, 653, 1206, 650, 53

ABCD2_6_20, 2135, 1989, 2615, 2349, 2803, 2926, 3725, 1771, 1771, 1801, 2776, 2494

ABCD4_6_21, 820, 591, 634, 799, 615, 2630, 201, 503, 1384, 280, 667, 651

ABCF3_6_22, 182, 273, 371, 357, 373, 193, 153, 550, 252, 816, 146, 277

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ABCG5_6_24, 988, 562, 1240, 1033, 890, 1538, 2435, 431, 696, 1212, 3240, 549

ABCG8_6_25, 907, 1360, 990, 685, 1616, 374, 1127, 766, 1033, 2536, 1237, 402

ANXA10_6_26, 3901, 3396, 2946, 3923, 2396, 6283, 5486, 3191, 3163, 4641, 4191, 4638

ANXA1_6_27, 1454, 1744, 1827, 1907, 4360, 2733, 1792, 3457, 759, 1849, 1944, 2477

ANXA3_6_28, 1216, 1666, 1914, 1914, 1908, 2340, 1637, 2515, 1047, 1161, 2572, 3553

ANXA4_6_29, 443, 830, 607, 634, 163, 1220, 99, 1094, 331, 1984, 1150, 802

ANXA5_6_30, 1297, 1003, 1711, 1678, 1464, 1565, 2070, 1731, 1328, 802, 1662, 744

ANXA8_6_31, 9235, 8376, 11560, 10447, 7346, 10191, 10071, 10794, 6621, 8118, 11496, 10229

ANXA9_6_32, 1070, 572, 868, 1399, 1508, 1197, 1126, 436, 896, 92, 539, 479

ATP10A_6_33, 1494, 1416, 2191, 1606, 730, 2942, 4576, 1966, 2411, 3224, 2078, 2331

ATP10B_6_34, 7332, 6598, 7383, 7313, 6830, 8088, 6363, 6023, 5676, 10452, 6735, 6835

ATP10D_6_35, 6397, 6426, 7501, 7850, 5386, 9413, 8947, 8086, 7380, 8269, 9878, 6142

ATP11B_6_36, 9373, 7147, 10002, 9044, 6859, 9466, 9366, 11015, 8353, 10158, 10584, 7261

ATP1A2_6_37, 1386, 1163, 1170, 1677, 1640, 460, 1249, 2267, 1161, 2536, 2540, 1371

ATP1A3_6_38, 1170, 1090, 1022, 1416, 1401, 119, 1284, 2508, 1117, 2246, 2382, 813

ATP1B1_6_39, 1580, 1228, 1983, 1642, 1872, 1596, 3739, 2199, 1052, 1651, 1536, 2909

ATP1B2_6_40,4135,4970,6502,4874,2935,5309,3527,4407,5396,3457,5635,5418
ATP1B3_6_41,1107,593,2128,1611,1075,680,1509,1203,1875,2505,752,2129
ATP4A_6_42,4632,4161,5188,5116,2936,4769,4154,7040,2656,6595,5293,4378
ATP4B_6_43,761,768,1122,695,691,923,954,945,803,1086,688,1375
ATP5B_6_44,2134,2485,3749,1910,1769,2500,3581,3448,1287,3262,5604,1204
ATP5F1_6_45,4270,3772,3726,3277,6158,2188,4826,4911,3565,7749,4354,3810
ATP5I_6_46,1532,1509,1979,1573,872,2823,712,2907,1802,4138,2960,895
ATP5L2_6_47,5771,4160,6780,5778,4133,9054,6323,6152,4978,5464,8063,4770
ATP5L_6_48,5771,4160,6780,5778,4133,9054,6323,6152,4978,5464,8063,4770
ATP50_6_49,3119,3627,3431,3691,3290,4724,3169,5921,3317,4250,7241,4974
ATP6AP1_6_50,797,589,952,1165,360,639,780,1808,529,408,1874,922
ATP6AP2_6_51,3195,2406,3479,3068,2242,2413,1460,1964,1244,3706,1939,4254
ATP6V0A2_6_52,1803,1738,1390,1540,820,1931,2036,2224,1558,2412,1512,987
ATP6V0D1_6_53,681,676,1114,557,616,507,1361,252,279,1099,272,754
ATP6V0D2_6_54,10058,9929,10326,10358,10088,10359,13759,14656,10026,14753,10621,11244
ATP6V0E1_6_55,1544,1141,1714,1418,886,450,1827,1451,597,1799,869,2490
ATP6V1A_6_56,713,578,749,1055,1231,792,824,664,426,431,1326,1090
ATP6V1B1_6_57,1588,1620,1532,976,3648,2704,2299,1737,366,2849,2038,2510
ATP6V1B2_6_58,13075,11571,14058,12344,11930,13768,12537,10757,11151,13790,15442,13489
ATP6V1C1_6_59,3622,3187,3991,4368,3182,3462,4978,4323,3183,6022,5498,4153
ATP6V1D_6_60,4640,4135,4256,4755,4657,4811,4351,5102,3434,4836,4955,3308
ATP6V1E2_6_61,1673,2065,2259,2139,2969,449,2083,2630,808,1774,2782,2661
ATP6V1G1_6_62,7274,5719,8529,8067,7950,5440,10711,6823,4413,6321,9949,6164
ATP7A_6_63,2067,1029,1790,1279,1221,3293,1314,673,2335,1574,2174,1242
ATP8A2_6_64,4741,3537,4771,4036,4283,6188,3824,3929,3706,3951,5994,3765
ATP8B1_6_65,322,419,464,626,1204,816,294,923,0,1,331,0
ATP8B4_6_66,2076,3232,3764,3227,590,1885,1628,3915,3128,1058,3567,2111
ATP9A_6_67,676,530,730,517,513,164,316,253,211,921,186,196
ATP9B_6_68,2190,1566,2009,1819,2357,881,1643,1568,2161,2433,2129,3019
ATPAF2_6_69,733,435,1213,1516,591,609,490,1629,1538,1238,1365,1531
FLVCR1_6_70,329,197,585,224,188,111,627,425,11,1074,565,384
RHBG_6_71,675,205,440,639,375,292,1292,1421,483,849,1203,971
RHCG_6_72,95,116,19,199,299,1,0,0,0,644,0,865
SLC10A1_6_73,1797,2202,2126,2179,2500,1796,2067,3253,2167,3220,3515,2160
SLC10A2_6_74,6248,5882,7830,7124,4170,6354,9310,7086,7558,7152,9136,4583

SLC10A4_6_75,5730,4783,5261,5807,2961,2075,9436,4563,4100,5453,7594,6000
SLC10A5_6_76,7695,7928,7707,7842,10515,10672,12390,10875,5564,9573,8775,7871
SLC10A6_6_77,1408,1091,1079,988,532,302,305,1496,320,1089,3454,2343
SLC11A1_6_78,1561,1480,1963,1916,1488,2746,911,924,1186,1565,1694,3638
SLC12A2_6_79,10081,9359,12591,12920,10411,9694,12481,10578,10393,13069,12867,17000
SLC12A7_6_80,3452,3488,3892,3364,4159,4629,4391,1594,1951,3625,3536,3427
SLC12A9_6_81,370,706,970,814,512,207,1539,1145,373,1503,796,2857
SLC13A1_6_82,3344,3738,3995,4049,3920,4119,3259,2643,3456,3919,3950,2773
SLC13A4_6_83,2306,2146,3161,2520,1246,1805,2491,2940,2464,1424,4468,2940
SLC15A1_6_84,10525,9820,12094,12367,10217,10181,10577,15311,9048,14426,13465,16847
SLC15A3_6_85,1754,1235,1349,1212,2302,2536,2790,2018,694,2128,2354,824
SLC15A4_6_86,2352,1956,2771,2356,3125,2833,2363,1791,2129,2421,3869,1419
SLC16A10_6_87,1427,1552,1839,1721,2280,627,3097,2936,820,1278,2078,2660
SLC16A11_6_88,2105,1431,2359,1638,2055,788,2792,1479,1099,2021,1848,662
SLC16A12_6_89,6268,5905,6286,6253,7323,7636,7651,8702,6480,6209,8278,7206
SLC16A2_6_90,2813,2695,2994,3026,2412,2985,3503,2150,1995,2046,4193,2273
SLC16A5_6_91,1102,1180,1264,995,996,1288,1752,765,1071,1176,1919,434
SLC16A7_6_92,1700,1357,1037,1507,353,1701,3315,1322,424,2373,1062,964
SLC16A8_6_93,1794,1898,1802,1847,2004,1214,1809,1663,578,2840,2628,509
SLC17A1_6_94,1464,1756,1764,1823,1046,903,2180,3113,1089,1384,2001,1546
SLC17A4_6_95,3150,3483,3445,3008,3334,4459,2389,2052,3470,3289,3600,2841
SLC17A5_6_96,1064,1094,1445,1506,417,1680,1666,1049,303,64,1155,1423
SLC17A6_6_97,9643,9179,12832,9072,10540,13223,9816,18224,7736,10929,13260,10418
SLC17A7_6_98,1023,967,1160,1336,420,645,393,231,1676,1762,1360,3048
SLC18A2_6_99,699,831,886,1032,290,295,780,1873,551,272,449,1415
SLC18A3_6_100,3326,3691,3068,3137,3528,4656,4197,2388,2288,3104,4773,2721
SLC19A2_6_101,3554,3295,4124,3823,2755,5047,4509,7341,4046,4062,5247,2543
SLC19A3_6_102,1767,1508,1758,1857,1212,436,988,2102,1136,2911,2856,1706
SLC1A1_6_103,5833,6451,9426,8065,4302,9148,6972,8355,6864,8226,8920,5980
SLC1A6_6_104,1389,1663,1507,1771,1082,925,2069,1825,756,474,1880,409
SLC1A7_6_105,6004,6630,9058,7902,4156,10673,6909,8184,6884,8405,8670,5

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SLC20A1_6_106,4453,3418,5442,4832,5197,6730,6709,3831,5129,2870,8300,4715

SLC20A2_6_107,1796,1076,1532,1136,1664,955,2131,1229,1877,4806,1539,1802

SLC22A10_6_108,745,696,1027,1352,921,317,2620,1028,988,450,355,765

SLC22A11_6_109,621,971,674,838,231,2278,1393,564,345,1132,1419,667

SLC22A13_6_110,427,321,464,264,1430,334,48,353,111,58,780,245

SLC22A14_6_111,1284,1068,1809,1302,1172,1177,506,1133,1380,2426,1904,1806

SLC22A15_6_112,3043,2585,3204,3798,1681,3641,2969,4984,1857,1190,4291,3821

SLC22A16_6_113,5139,4076,5273,4607,5095,5343,4877,3590,2728,4901,7414,7657

SLC22A18AS_6_114,1524,1050,1312,1549,2275,481,1412,1266,1142,1170,1822,1360

SLC22A2_6_115,970,799,640,861,1261,213,482,392,477,1194,1285,1757

SLC22A3_6_116,568,520,1043,828,109,490,524,82,733,751,1099,453

SLC22A4_6_117,3364,3454,4277,4036,2785,6222,5255,2803,3310,3074,4821,2332

SLC22A5_6_118,2787,2885,4049,2824,2174,4620,2269,3827,3397,3685,4884,4949

SLC22A9_6_119,2138,1873,1776,2644,1168,1789,2741,1845,1795,2838,4154,1156

SLC24A1_6_120,6137,4861,5169,4601,6861,6704,6488,6031,6595,8489,5802,3189

SLC24A3_6_121,837,521,568,757,1343,1592,1338,574,385,420,1052,321

SLC24A5_6_122,856,1119,935,1159,942,629,2554,598,647,1005,1269,802

SLC24A6_6_123,3571,3829,4888,3495,4044,4882,3596,6782,2669,3012,5575,3495

SLC25A10_6_124,2577,3421,3757,3436,3115,4727,2312,2588,1947,2085,5089,2873

SLC25A12_6_125,945,1057,1515,1717,1542,1547,805,1913,493,1777,1319,1444

SLC25A15_6_126,2434,1767,2756,2250,2146,2634,3268,6475,2375,1905,3467,2756

SLC25A16_6_127,2814,3822,3963,3606,2745,2641,6428,2068,2850,2917,3544,3544

SLC25A17_6_128,5955,4439,5825,6259,6132,6389,5995,4301,4046,7404,5938,5296

SLC25A18_6_129,363,148,505,672,205,406,191,438,401,1064,314,126

SLC25A1_6_130,594,266,523,688,177,88,1262,80,587,1426,2086,892

SLC25A20_6_131,1245,1720,1653,1333,2255,665,1672,2204,1181,1919,1829,2040

SLC25A28_6_132,810,1211,1643,1302,1501,584,1791,1712,710,957,1089,1267

SLC25A2_6_133,1486,1865,1886,2118,1985,940,1677,2864,1593,1239,2738,1454

SLC25A32_6_134,6185,4959,5776,5862,5771,4944,6483,6559,5193,6489,5198,3290

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2592
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SLC25A44_6_137,887,1322,1322,1130,2831,2290,1455,1280,422,670,2617,644
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SLC26A10_6_141,1874,1662,2226,1903,1558,3543,1833,1647,1359,2402,2877,2503
SLC26A2_6_142,2671,3038,3097,2895,3584,4887,2460,2704,2697,3490,5365,3954
SLC26A3_6_143,1371,1228,1654,1195,681,899,684,2404,1044,3063,1522,1146
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SLC35D1_6_176,1123,1106,1780,1576,2022,1410,1242,837,68,2068,2084,2807
SLC35D2_6_177,1395,1530,1867,1331,1314,806,2301,1601,2440,5217,1055,91
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SLC35E4_6_181,1656,1041,1866,1285,249,1019,1790,2656,1606,1229,1718,16
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SLC35F1_6_182,1163,1333,1344,1004,1276,1571,435,1808,1069,2696,2687,72
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319
SLC35F4_6_185,4756,5248,4692,5821,4387,4542,8443,5954,3157,7177,5488,3
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SLC35F5_6_186,4529,3433,4751,4880,3756,5150,6007,4979,3141,3360,5288,3
959
SLC36A1_6_187,1756,1162,1900,1662,2045,789,783,1335,959,1216,2363,1074
SLC36A2_6_188,3051,3360,3673,3734,4129,4262,3604,4331,2102,3599,4090,4
471
SLC36A4_6_189,2803,2381,3656,2892,797,4003,1388,2838,2023,4169,4899,26
32
SLC37A1_6_190,935,740,1423,830,1567,1054,444,1140,703,637,1639,1199
SLC38A2_6_191,12083,13477,12508,11814,12122,17753,12605,13768,10150,12
942,15988,15128
SLC38A3_6_192,2292,3089,3533,2928,3708,2572,1514,2273,1185,2219,2267,2
693
SLC38A5_6_193,2072,1769,2984,2979,1324,1722,2642,4019,1555,3052,2498,7
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SLC39A1_6_194,2668,2806,2835,3343,1932,2758,3139,2812,2132,3398,5137,1
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SLC39A2_6_195,1310,1321,2191,1268,1595,1660,884,2986,807,1020,1531,214
4

SLC39A9_6_196,3203,1905,2883,2921,2647,5525,3972,4665,2399,4796,4057,900
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SLC40A1_6_198,6193,7058,8669,8033,7920,7705,7125,7398,5924,6798,9193,7485
SLC41A1_6_199,793,615,722,700,446,2001,45,547,592,936,444,1336
SLC43A2_6_200,389,251,309,497,648,214,397,803,663,200,343,479
SLC44A1_6_201,1353,1574,1790,1676,708,1812,1856,1307,1325,1381,2824,3860
SLC46A2_6_202,1292,1504,1868,1851,801,680,1464,422,1090,2818,2694,1435
SLC4A1AP_6_203,6893,7757,7421,7821,8214,9890,10025,6357,8137,7856,8604,9091
SLC4A1_6_204,2385,2384,3532,3092,3351,1820,3666,1167,1654,3322,5471,1853
SLC4A7_6_205,15025,12101,16000,18352,15410,19411,13962,18411,11176,22687,19490,13616
SLC4A9_6_206,3410,2586,2731,2705,2913,4538,3608,2094,2131,3454,3535,2526
SLC5A11_6_207,1643,638,1371,1079,1063,1297,1688,1367,1814,504,615,2088
SLC5A1_6_208,1949,2658,3207,2555,2475,2646,2712,980,2160,2363,2156,2815
SLC5A2_6_209,10335,8803,10660,10817,12555,10160,8158,14066,7238,10562,12421,9948
SLC5A3_6_210,521,500,288,790,1285,1060,496,742,62,672,512,169
SLC5A4_6_211,516,708,862,682,82,954,690,367,158,1478,539,535
SLC5A5_6_212,2441,2404,3194,2896,2068,2055,2062,2775,2049,4065,5814,2425
SLC5A6_6_213,1473,960,1489,1000,400,107,919,1332,1095,1289,886,1373
SLC5A7_6_214,2371,1864,3192,2154,2721,1875,1141,4855,1828,3574,3616,1192
SLC5A8_6_215,4744,4653,5113,5235,4450,6992,4145,6518,2357,4288,5475,7121
SLC6A11_6_216,766,771,1577,1150,949,1731,370,374,349,966,289,904
SLC6A14_6_217,3953,2604,3598,4344,3279,2667,2515,3277,4616,6117,4424,3647
SLC6A16_6_218,2041,2369,3039,2442,2642,1459,1898,894,2648,3700,1085,3916
SLC6A19_6_219,1128,1019,1535,1471,2150,2140,434,1018,2026,2151,2158,3238
SLC6A1_6_220,632,633,853,929,962,490,1297,1005,1640,291,1173,475
SLC6A3_6_221,1085,1707,1671,1500,2316,1247,1934,755,470,389,2215,2297
SLC6A4_6_222,1082,1007,1107,1142,1142,414,614,479,935,2241,634,1484
SLC6A7_6_223,350,128,202,538,19,20,538,658,136,877,816,829
SLC7A10_6_224,1920,2138,1662,2006,1293,3619,3636,1321,2550,1639,1591,1407
SLC7A11_6_225,5662,5169,6103,6668,6122,5275,4298,5307,2399,2838,8466,5518
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SLC7A1_6_227,3502,3195,3395,3642,2183,3496,3361,3793,3909,3450,4264,3660
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SLC7A5_6_229,1477,2096,1881,1932,3018,3452,1841,1987,1185,3018,1838,1844
SLC8A2_6_230,851,347,953,753,346,1454,727,199,420,322,606,921
SLC9A1_6_231,855,617,1103,776,251,287,178,508,48,501,264,181
SLC9A2_6_232,629,613,538,485,209,384,390,22,161,40,819,79
SLC9A3_6_233,521,466,812,309,244,303,262,208,545,133,1945,566
SLC9A3R1_6_234,360,571,459,715,553,483,562,1287,482,718,1166,483
SLC9A4_6_235,2657,2721,3252,2869,3965,4906,2135,3577,1154,5752,2574,1958
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SLC9A7_6_237,2362,2090,2045,2180,2294,2617,1578,2674,1370,2416,1733,2272
SLC9A8_6_238,1488,1447,1498,1143,981,1653,1889,2228,1106,2947,1523,1708
SLC9A9_6_239,2749,2705,2900,3001,3738,2944,2356,3229,1736,4380,3079,2590
SLC01B1_6_240,2881,4084,3983,3932,3011,4847,5481,4592,4591,4013,3310,4492
SLC01B3_6_241,3296,2886,3347,3706,5015,3096,1936,2814,3374,5804,4045,5813
SLC02A1_6_242,959,531,954,861,1168,436,345,156,1084,47,1534,336
SLC04A1_6_243,4165,4680,4610,4290,3826,2797,3481,5337,2493,2523,5319,3618
SLC04C1_6_244,5701,4821,6169,6421,8414,10119,4553,7303,3780,9767,6381,5963
SLC06A1_6_245,687,787,1059,1149,507,2075,1170,344,686,527,1846,2142
SV2A_6_246,3662,3196,3821,3761,2675,1218,2505,5415,4562,2354,4035,3017
TAP1_6_247,1885,1444,1129,2031,401,3173,2518,3337,1366,1886,2208,1787
UCP1_6_248,2525,2689,2461,2785,3280,4374,3940,2373,2781,4013,2523,2632
ABCA12_6_249,888,676,994,602,485,329,719,1026,341,321,1317,536
ABCA2_6_250,1181,1347,1309,1452,1197,2071,1789,1302,873,1097,2116,896
ABCA5_6_251,2403,3021,3436,2667,2550,2695,3712,3498,3127,3231,3339,2343
ABCB4_6_252,661,1065,521,729,297,1172,1540,1608,1085,967,1475,279
ABCB9_6_253,2934,2281,3103,2987,4325,2890,1324,4033,2341,2170,5388,2690
ABCC10_6_254,1089,744,1088,836,521,396,528,1917,1046,528,1127,751
ABCC11_6_255,4947,5486,5328,6534,4040,6531,8176,7165,4654,6516,8112,6992
ABCC1_6_256,437,393,367,571,19,23,236,473,697,51,113,314
ABCC3_6_257,1946,2401,1876,2446,1795,940,2656,3126,1458,1373,2539,1633
ABCC4_6_258,3679,3132,4754,4727,4440,4167,3558,3829,3312,6449,6005,5523
ABCC5_6_259,1367,1012,1377,1743,850,935,1009,2779,1294,1910,1560,933
ABCC9_6_260,378,310,167,427,249,527,123,523,267,202,360,4
ABCD3_6_261,2029,2097,2189,1624,2499,1446,910,1934,1786,1705,3516,1504

ABCE1_6_262,2939,2189,3073,3274,2576,4257,4194,2145,3688,4734,3759,381
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ABCF1_6_263,861,1029,777,919,534,1537,117,326,444,2112,652,1493
ABCF2_6_264,2832,3006,3230,2914,907,3193,3461,4285,1884,3906,4245,2492
ABCG1_6_265,1385,1819,1156,1048,518,1145,57,978,1097,2069,1748,611
ABCG4_6_266,2321,2438,2862,2770,3050,2047,4114,3464,3179,4057,4362,192
9
ANXA11_6_267,1388,1142,1647,1311,2949,511,301,470,1183,667,855,1192
ANXA13_6_268,9276,9313,10617,9387,11298,12032,9614,10214,9343,18922,12
345,7549
ANXA2_6_269,2525,3002,2702,3307,3114,5688,3318,3235,1447,4422,3206,249
3
ANXA6_6_270,3945,3712,3509,3406,2919,5129,1546,4705,5289,4717,3703,474
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ANXA7_6_271,945,728,1066,1106,1092,812,145,943,704,435,1261,2157
ATP11A_6_272,5505,4517,6599,5325,5904,4267,6671,7508,4424,5793,8066,52
74
ATP11C_6_273,1469,1644,2087,1942,1741,3481,808,2512,534,1680,3377,1418
ATP12A_6_274,1641,1556,2337,1848,1727,600,1902,424,1093,1540,2121,718
ATP1A1_6_275,751,889,1204,963,621,792,1621,1434,1360,307,865,1505
ATP1B4_6_276,11760,12761,15902,15561,12256,14225,11788,14618,11693,126
33,20929,16906
ATP2A1_6_277,3201,3870,4327,4030,4259,3634,5769,3501,2967,3553,4691,50
54
ATP2A2_6_278,1554,1488,1960,2056,884,4615,2447,664,4052,2116,2790,2649
ATP2A3_6_279,3222,3630,4264,4002,4246,3835,5292,3491,2971,3507,4432,46
76
ATP2B1_6_280,8400,7576,9971,8287,7045,6336,9047,7847,5305,7708,11837,1
0457
ATP2B3_6_281,664,314,596,291,14,2678,1620,248,107,1256,46,343
ATP2B4_6_282,2181,1779,2808,2413,2928,2256,1501,2299,1785,2132,3531,22
68
ATP2C1_6_283,625,681,788,856,259,163,329,954,145,145,95,895
ATP5A1_6_284,1038,680,803,733,745,265,432,213,1373,793,551,2378
ATP5C1_6_285,3518,4566,4529,4115,2600,3548,4825,3664,3419,4977,6914,32
85
ATP5D_6_286,6558,6605,6344,6079,7522,7417,6070,6812,5205,6187,6749,654
9
ATP5E_6_287,1853,1251,1596,1539,386,1034,1188,1400,939,3023,2364,1488
ATP5G1_6_288,1860,2587,1883,2108,1246,2724,1300,4476,1267,1160,772,146
2
ATP5G2_6_289,488,433,719,485,254,956,351,2321,513,280,687,236
ATP5G3_6_290,1718,1642,2362,1854,1721,1376,1873,1671,954,3159,1880,964
ATP5H_6_291,5384,4782,5077,5889,3239,6502,3597,7319,3227,6716,7807,417
6
ATP5J_6_292,3372,3044,4055,3620,3442,3254,5089,6386,2256,3953,4869,466
2
ATP6V0A1_6_293,1806,1513,1284,1300,2670,754,1002,1638,765,2939,1288,92
3
ATP6V0A4_6_294,3170,4021,3661,3568,2662,3832,2447,1641,2526,1954,3238,

2746

ATP6V0B_6_295,843,665,328,808,1163,1404,811,1285,996,1081,575,2033

ATP6V0C_6_296,1452,1583,1793,1456,842,1047,2584,2789,1949,1136,2706,14
15

ATP6V1C2_6_297,1039,825,1062,1133,540,2760,914,1112,2194,619,1629,762

ATP6V1E1_6_298,1547,1194,1930,1572,1224,721,2221,2007,1168,1759,2498,1
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ATP6V1F_6_299,733,671,1149,1160,1388,1218,2357,2321,200,1138,331,529

ATP6V1G2_6_300,353,462,253,351,276,464,180,10,0,23,100,167

ATP6V1H_6_301,2963,2525,3052,2516,1828,3917,4065,3584,3321,5131,5160,4
715

ATP7B_6_302,936,1001,1237,1247,989,2133,2114,2297,1327,527,878,986

ATP8A1_6_303,2612,2087,2308,2670,2254,1564,3109,3440,3692,2426,3448,28
02

ATP8B2_6_304,1916,2471,2064,1898,2228,2147,885,1850,2968,1070,3608,309
3

ATP8B3_6_305,1577,1546,2153,1593,1528,3677,1444,3049,1349,338,1981,226
8

ATPAF1_6_306,4011,4205,4065,4752,2017,7159,3400,3759,4328,3392,3418,49
11

GC_6_307,7495,6397,8270,6451,6676,5560,6720,5695,6552,6230,8790,9040

SERINC5_6_308,13465,13573,16907,16150,11102,19149,13572,11028,11552,15
183,26656,17422

SLC10A3_6_309,410,340,467,515,326,238,364,21,187,583,1642,486

SLC11A2_6_310,1099,1067,1441,811,1402,350,2258,606,467,323,934,684

SLC12A1_6_311,6047,5438,5810,6782,6462,4164,8544,6701,3817,7065,11145,
5412

SLC12A3_6_312,1017,806,1237,991,516,498,767,192,618,1153,1920,843

SLC12A4_6_313,949,1055,896,781,1442,634,771,523,1248,585,2338,1926

SLC12A5_6_314,4503,4402,5935,5448,3464,3582,8287,5229,3255,6081,9063,7
353

SLC12A6_6_315,2502,1881,2603,2642,2685,3218,2562,2513,4348,1886,3153,3
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SLC12A8_6_316,1503,1324,1709,1677,1545,1780,2274,3412,936,1052,2032,15
37

SLC13A2_6_317,4784,4814,4781,4965,4608,2911,6272,3275,3117,3507,6726,2
804

SLC13A3_6_318,5229,5069,4771,5132,2812,4426,4429,3608,3696,6575,6477,5
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SLC13A5_6_319,585,452,779,717,123,137,460,552,648,759,1942,178

SLC14A1_6_320,1865,1880,2796,2259,2542,3024,2380,3284,1534,2431,2579,7
63

SLC14A2_6_321,1713,1681,2414,2341,1932,2584,1632,1323,1010,2598,3413,1
794

SLC15A2_6_322,2060,1944,2132,2095,1118,2399,3991,2235,1615,5599,1873,3
396

SLC16A1_6_323,4640,4389,3627,4307,5862,3568,3781,3891,5437,5750,4413,5
613

SLC16A3_6_324,1732,1803,2222,2047,1877,1873,3170,4292,3718,4036,1748,1
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SLC16A4_6_325,6694,5482,7764,6582,9205,7935,5921,9547,4275,7015,8979,7
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SLC17A3_6_327,3057,3129,3506,3533,2235,2607,2893,6825,2766,3767,6014,4
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SLC17A8_6_328,2385,3027,2850,2408,3599,3858,3435,2943,792,1944,2660,13
54
SLC18A1_6_329,871,221,813,870,2157,191,60,1229,1197,29,2448,477
SLC19A1_6_330,10215,10512,13094,10884,11153,10739,12507,11816,12709,11
483,11711,11863
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SLC1A3_6_332,7855,7407,8492,7986,7645,9581,10297,9596,6510,6213,9262,9
181
SLC1A4_6_333,599,574,517,471,92,1360,54,213,942,1481,1302,1149
SLC1A5_6_334,2031,2106,2262,2048,2033,1411,2206,1856,1135,2083,4384,27
77
SLC22A12_6_335,2259,2290,2633,2641,2123,4809,4349,3182,2325,3014,3432,
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SLC22A17_6_336,2885,2798,2253,2803,2533,2280,2319,3981,3821,2455,3020,
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SLC22A18_6_337,1597,2140,1585,1412,1035,528,1689,2556,2289,3371,2001,1
938
SLC22A1_6_338,6164,6061,6773,6292,6023,8903,6179,7282,5117,8321,10616,
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SLC22A8_6_342,427,421,548,450,475,377,890,467,550,18,618,363
SLC23A3_6_343,528,444,970,517,75,934,493,577,439,211,1261,271
SLC24A2_6_344,525,365,645,735,291,649,1897,700,5,698,788,34
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SLC25A19_6_349,3755,2328,3879,4474,4222,5647,4839,4136,2113,4107,3783,
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SLC25A21_6_350,1663,1634,975,1708,1315,1812,1883,1611,1340,3053,736,27
67
SLC25A22_6_351,814,494,835,649,139,1190,648,430,1848,369,1399,1340
SLC25A26_6_352,660,1462,1736,1069,746,849,1323,861,1205,1294,1207,2015
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263

SLC26A11_6_355,699,623,877,749,121,2533,2576,1222,405,1206,1084,747
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SLC26A6_6_358,1635,1905,2427,1664,2193,1113,584,504,1976,1324,2788,120
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SLC26A9_6_361,4337,3913,5425,4955,3065,2176,7089,5637,5302,4773,5140,6
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SLC27A2_6_362,1602,1449,1651,1689,1733,1305,3061,2173,1585,3539,2263,1
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SLC28A3_6_364,2461,2203,1839,2299,3421,1722,2103,1656,1821,1390,2273,2
134
SLC29A1_6_365,514,746,828,603,2385,82,904,718,273,331,520,287
SLC29A3_6_366,930,748,1033,1096,414,172,37,1064,455,1542,1204,536
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78
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SLC30A7_6_374,1338,1292,1437,1228,1698,1271,734,817,758,1306,3447,1603
SLC30A8_6_375,1526,1170,1462,1469,1330,1291,1335,2745,2225,2201,1399,1
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SLC33A1_6_376,1846,1226,1848,1731,1716,1130,2596,902,611,1723,2102,151
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SLC34A1_6_377,330,637,808,538,137,1813,1265,1036,246,108,376,218
SLC34A2_6_378,1750,2037,3064,2832,1164,467,1801,1393,2069,911,1285,344
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SLC34A3_6_379,3819,3570,4048,3850,4256,2951,4890,4630,3652,3123,3831,3
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SLC35A1_6_380,5253,4231,5383,5959,1527,5741,5278,8731,4107,6304,8204,5
214
SLC35A2_6_381,384,1037,511,661,0,164,271,300,260,372,1745,782
SLC35B3_6_382,390,301,190,322,218,0,152,499,315,202,643,158
SLC35C1_6_383,672,549,395,363,1311,502,358,411,1146,632,695,266
SLC35C2_6_384,1043,800,796,614,88,605,1409,500,9,2718,783,368
SLC35E2_6_385,1435,2271,1525,2383,2402,558,775,2070,3606,1904,1340,367

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SLC38A4_6_392,862,778,968,714,38,854,17,125,558,775,1070,744

SLC38A6_6_393,2451,2557,2930,2150,2417,2831,3259,3339,1911,2055,2048,2843

SLC39A10_6_394,1002,838,1371,2179,919,737,1494,1395,1312,1044,1382,528

SLC39A11_6_395,786,741,947,1174,441,617,1586,362,1120,3245,688,431

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SLC39A14_6_398,12341,11224,12399,13654,16888,12190,13302,13344,10091,15931,17202,10230

SLC39A4_6_399,4562,4102,5615,5308,3483,4618,7615,6465,4600,6280,7083,6961

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SLC39A6_6_401,4129,3144,4522,4107,4365,2065,5000,3908,3486,2732,2689,4572

SLC39A7_6_402,562,672,784,1058,323,102,1844,363,419,685,470,780

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SLC43A1_6_405,577,1181,1106,906,794,1596,860,567,1024,2415,1149,871

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SLC7A7_6_425,4985,4888,6130,6341,5382,4400,4876,5847,4017,9403,8970,68
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SLC01C1_6_433,2574,2344,2584,2067,1670,1639,2267,2305,1277,3135,2480,2
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SLC05A1_6_436,445,1018,1053,1046,800,626,1133,2444,776,2505,226,2027
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ATP1A4_6_439,1895,2677,2321,2207,2593,2428,1165,1441,1627,1859,3220,21
69
ATP5J2_6_440,484,381,569,1107,46,609,893,535,411,220,63,776
ATP5S_6_441,5718,5290,6544,6502,5376,4365,4486,5115,5117,5484,10599,42
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ATP6V1G3_6_442,1580,1724,1730,2289,332,896,2567,1022,1064,3001,3528,24
58
ATPIF1_6_443,871,523,1257,976,745,471,1219,936,448,996,701,1265
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SLC28A1_6_445,2957,3220,3856,3943,5195,4169,3374,4852,2987,3143,7348,7
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467,9851
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ABCA10_6_448,3365,2338,3388,2923,1524,2704,3387,3323,2537,4286,5436,16
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ABCA3_6_451,469,238,271,426,423,139,69,1630,11,236,58,471
ABCA4_6_452,611,811,646,940,429,447,1160,935,603,514,1517,490
ABCA6_6_453,567,896,994,620,564,804,2227,354,424,2332,789,326
ABCA7_6_454,1121,1239,1751,1295,1977,1316,1551,1446,1831,1479,1954,257
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ABCA8_6_455,3101,2168,3820,3663,972,2887,3093,4953,2130,2032,2479,4923
ABCA9_6_456,1518,1400,1942,2050,1145,1147,1439,2187,1719,1627,2178,712
ABCB10_6_457,1768,969,2205,1700,1522,1279,3056,2443,1239,1842,2972,100
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ABCB11_6_458,1624,1677,1753,1280,983,917,1862,1607,1077,1430,2078,1387
ABCB1_6_459,5811,4686,5753,6888,5557,4503,8250,5756,4440,4624,8996,220
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ABCB7_6_461,3424,3063,4409,2609,721,1732,3577,5792,2655,4805,3717,2806
ABCB8_6_462,1245,1355,1257,1462,1028,1497,1080,305,2445,1865,1624,2584
ABCC12_6_463,1156,1133,1311,1211,549,598,808,2767,689,2988,1455,734
ABCC2_6_464,4911,3607,6561,4637,2356,4138,3793,6917,4132,4079,6203,667
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ABCC8_6_465,236,364,153,400,584,170,101,1350,481,453,793,128
ABCD1_6_466,342,198,529,477,138,890,152,145,129,846,332,643
ABCD2_6_467,2854,2134,3445,2822,2478,3450,4904,4053,2688,3249,2670,252
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ABCD4_6_468,854,697,576,673,517,403,38,863,1116,492,846,282
ABCF3_6_469,1007,435,935,802,515,29,700,25,2446,366,1471,747
ABCG2_6_470,2550,3513,4191,3539,830,1750,2546,2634,2361,5551,4719,6571
ABCG5_6_471,2637,2152,2609,2759,1732,655,1670,5158,1670,2119,3955,1623
ABCG8_6_472,1872,2928,2388,2825,940,2573,2176,1918,2161,2931,3807,4386
ANXA10_6_473,1456,1507,1419,1910,1457,1269,2311,1307,1745,1186,1908,25
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ANXA1_6_474,1041,1274,1445,1139,1105,2377,1677,296,589,401,1355,1336
ANXA3_6_475,2918,3058,4345,3789,1944,1629,4000,3825,4850,3432,4826,334
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ANXA4_6_476,1776,1712,2180,2082,3064,1760,1847,1811,2015,2782,2096,245
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ANXA5_6_477,1535,1783,2255,2078,2264,836,1719,1238,478,1192,3678,3419
ANXA8_6_478,3851,3634,5001,5235,4586,7329,5281,5143,4981,5360,5979,374
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ANXA9_6_479,2516,3183,3772,3024,4815,2409,3966,2864,3032,4280,4275,181
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ATP10A_6_480,2161,1733,2343,2353,1035,2957,2325,2659,1951,3127,2096,19
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ATP10B_6_481,371,631,760,794,942,838,298,98,1225,191,398,680
ATP10D_6_482,743,704,846,696,648,588,1955,421,593,1386,681,86
ATP11B_6_483,291,351,532,606,358,36,89,395,412,6,299,3
ATP1A2_6_484,339,550,679,755,12,496,448,346,199,704,338,1025
ATP1A3_6_485,2263,2284,1932,2137,2750,2240,1975,2673,3111,1174,2259,17
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ATP1B1_6_486,7379,6621,7985,7323,6781,4001,9257,6763,6589,9612,11329,8
453

ATP1B2_6_487,1057,1160,1412,1389,1040,1152,1056,543,348,924,2340,1154
ATP1B3_6_488,1922,1489,1964,2026,357,1297,1671,1689,1506,2720,2911,100
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ATP4A_6_489,1577,1678,2222,1463,1720,2451,2550,1818,2371,989,2945,1742
ATP4B_6_490,1754,2001,1808,2382,1769,2058,943,1864,2544,3301,2951,1561
ATP5B_6_491,7647,5986,9131,7364,7364,7704,10130,6213,8857,8173,10925,9
448
ATP5F1_6_492,778,872,658,732,930,2267,1253,471,52,448,799,194
ATP5I_6_493,723,465,622,809,406,689,840,1829,818,470,1087,1099
ATP5L2_6_494,1212,1119,1985,1517,1020,2214,231,810,806,3451,1335,2687
ATP5L_6_495,1212,1119,1985,1517,1020,2214,231,810,806,3451,1335,2687
ATP50_6_496,2078,2557,2625,2733,2474,3626,1874,4073,1394,1182,3052,322
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ATP6AP2_6_498,3883,2740,2930,3147,634,2725,4030,4229,2331,5313,3235,23
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ATP6V0A2_6_499,1029,1171,1042,1325,32,239,780,796,251,2833,1791,234
ATP6V0D1_6_500,664,462,877,806,97,693,1035,113,123,375,535,24
ATP6V0D2_6_501,695,1459,1592,1250,2480,519,1162,1173,1299,976,1037,776
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53
ATP6V1B1_6_504,594,376,383,689,580,590,1059,152,1324,217,811,374
ATP6V1B2_6_505,1568,1619,1706,1901,1946,1969,2831,2900,1314,4233,3395,
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ATP6V1D_6_507,4147,3475,3356,3777,5029,3411,4272,4336,4985,7436,6706,5
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ATP6V1E2_6_508,8099,7686,9249,10303,8113,9677,14948,7951,7982,7510,115
32,8694
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ATP8B1_6_512,1431,1679,2068,1723,2481,1279,1545,1588,2046,1294,1219,21
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ATP8B4_6_513,5865,3238,5644,4591,5951,5956,5041,6004,5281,4811,4353,63
05
ATP9A_6_514,3960,3365,4861,4289,2870,3601,6487,4283,3971,5127,4651,432
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ATP9B_6_515,898,691,978,770,1526,671,960,1382,740,583,922,1453
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FLVCR1_6_517,2198,1646,2228,1939,982,3882,1677,1563,2114,2493,3077,979
RHBG_6_518,3490,3593,4162,3752,2836,5124,4480,3157,2940,3751,5490,3246
RHCG_6_519,678,782,1309,864,208,807,2236,773,1226,1411,678,1056
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53
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812
SLC22A10_6_555,1355,1849,1267,1334,3018,3498,1008,1694,1646,2341,1421,
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SLC22A14_6_558,3636,3421,4067,3531,2929,5047,3732,3359,1276,2255,3735,
3709
SLC22A15_6_559,1900,1605,2713,2170,1064,763,1478,779,1170,2617,1644,11
39
SLC22A16_6_560,1286,1190,1082,1636,2167,1172,2076,379,799,662,1236,123
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SLC22A18AS_6_561,2750,1958,2250,2105,2109,1902,3830,3839,1490,2082,335
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SLC22A2_6_562,5888,5325,7195,6470,3878,6765,6108,5457,3656,4473,10426,
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SLC22A3_6_563,519,346,687,669,2125,752,1760,1233,477,249,489,325
SLC22A4_6_564,1979,1461,2032,1877,4356,423,2394,2692,530,2289,1484,297
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3466
SLC25A18_6_576,1817,1804,1542,1820,2057,982,559,2058,819,2046,2072,139
6
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SLC25A20_6_578,213,107,474,475,210,147,913,1147,25,123,6,528
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47
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SLC35A3_6_617,13728,12659,15595,13812,15653,13798,14295,16762,11242,12
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SLC35B4_6_622,4316,3713,4884,4661,4219,5217,5227,3204,2793,3013,7948,4
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222
SLC35D2_6_624,9884,11110,11728,10427,5868,9691,11190,11830,8230,14361,
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SLC35E4_6_628,197,459,434,357,201,1118,18,63,191,720,49,485
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566
SLC36A4_6_636,3610,2930,3489,3976,1980,3541,2815,5934,2648,4920,5851,3
401
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05

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98
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98
SLC5A8_6_662,2780,3269,3762,2760,3415,2894,4537,2122,3338,3707,5590,47
34
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89
SLC6A4_6_669,340,421,261,239,241,771,381,5,662,266,213,19
SLC6A7_6_670,789,869,1040,778,199,805,419,817,255,335,812,815
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407
SLC7A11_6_672,1608,1451,1952,1461,2369,851,3285,1666,1651,1954,2498,96
9
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61
SLC7A4_6_675,648,879,1125,739,862,1524,1368,617,1275,1848,1456,813
SLC7A5_6_676,3501,3952,5428,4553,3280,5483,4892,4093,3644,5183,4074,53
68
SLC8A2_6_677,826,347,528,435,588,6,133,121,52,105,475,449
SLC9A1_6_678,1189,559,1655,1838,1410,706,1004,948,1399,3333,1100,1449
SLC9A2_6_679,3018,2152,2806,2681,3465,3717,2796,4628,3437,4513,3766,31

63

SLC9A3_6_680,1103,1163,1363,981,344,1206,1166,462,503,836,610,181
SLC9A3R1_6_681,908,983,1513,1287,3193,257,2096,1010,1765,637,783,354
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SLC9A8_6_685,2748,2434,2746,2884,1735,3361,3457,4506,2381,2936,3824,28
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SLC9A9_6_686,2785,2464,3267,2458,1480,3782,3989,2015,3079,4525,2161,39
96
SLC01B1_6_687,10202,8647,11639,10877,12957,12119,11348,8890,9141,13508
,12263,10464
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SLC02A1_6_689,4540,4593,5074,5398,3249,6560,4930,5931,4733,5759,5073,6
745
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SV2A_6_693,1053,787,798,556,963,1990,391,1984,455,794,915,1247
TAP1_6_694,215,137,158,127,493,1184,152,14,805,0,19,812
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ABCA12_6_696,1438,1689,2417,2385,1938,1765,1949,3045,1547,1524,3403,15
68
ABCA2_6_697,434,265,479,413,1914,646,19,1109,477,361,354,331
ABCA5_6_698,2654,1888,2479,2970,4326,2401,3045,3338,2411,4996,2795,271
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ABCB4_6_699,2264,2582,3341,2230,3547,2815,1741,2561,791,2507,4776,2510
ABCB9_6_700,1711,1651,2361,1417,1025,1511,1141,2370,2463,534,1525,1245
ABCC10_6_701,3864,3771,3533,3990,4972,4399,5588,2809,4878,4283,3404,41
23
ABCC11_6_702,667,255,587,624,2,13,439,684,385,317,150,538
ABCC1_6_703,1459,1491,1174,1615,538,3421,1336,2521,358,1554,2872,1144
ABCC3_6_704,1126,1277,1447,1424,1100,2594,369,1276,1473,579,2417,1413
ABCC4_6_705,807,841,1593,1187,794,649,1935,1822,2185,2092,3127,1415
ABCC5_6_706,2501,2100,2373,2249,2153,1034,2055,2444,2938,1964,2921,122
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ABCC9_6_707,1603,1108,2257,2180,1083,246,2513,3021,680,2379,2850,2206
ABCD3_6_708,2859,3723,3541,4178,3853,4257,3220,4734,1720,3465,3832,415
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ABCE1_6_709,463,534,693,906,1228,1121,1914,1463,412,912,766,102
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ABCG1_6_712,570,849,705,595,1360,540,661,1506,364,243,234,157
ABCG4_6_713,703,408,366,413,196,157,685,584,1128,56,890,799

ANXA11_6_714,567,1346,983,685,961,495,2045,2357,858,353,187,255
ANXA13_6_715,1803,1551,2212,1939,1214,2515,2614,1906,1512,3645,3234,32
36
ANXA2_6_716,2090,1409,1593,1843,1918,1370,2106,2302,2255,1726,1510,127
9
ANXA6_6_717,602,780,695,811,1096,8,1102,932,605,308,249,779
ANXA7_6_718,951,757,1415,1234,973,805,2046,1041,965,494,482,975
ATP11A_6_719,1237,931,1098,1643,252,654,2563,1519,850,383,1753,3160
ATP11C_6_720,2086,2314,2861,3285,2184,3620,3706,2327,2857,1924,3470,22
62
ATP12A_6_721,4115,3726,4673,4180,4831,4269,4844,3853,6026,6658,4973,52
65
ATP1A1_6_722,2863,2039,2505,2394,4562,2665,3517,1913,2723,2220,2872,31
66
ATP1B4_6_723,1753,1270,1453,2364,1358,1235,1303,1005,685,799,1551,1097
ATP2A1_6_724,681,345,984,698,498,1015,642,496,162,335,920,51
ATP2A2_6_725,2903,2879,3862,3002,5799,2814,3170,2216,1034,2451,3485,21
82
ATP2A3_6_726,1504,1443,1513,1726,2922,3597,2092,1246,1227,1650,2356,12
48
ATP2B1_6_727,6456,6706,7850,6736,5760,5403,8811,5536,5494,4921,9671,79
75
ATP2B3_6_728,290,391,714,280,841,854,9,689,3,893,583,1194
ATP2B4_6_729,2018,1811,2187,1651,1589,2542,3582,1938,1508,2805,3293,12
48
ATP2C1_6_730,603,393,494,305,624,522,690,420,775,961,601,515
ATP5A1_6_731,1242,1265,1440,1155,1516,1981,1263,996,701,873,1935,880
ATP5C1_6_732,855,1074,1287,669,567,484,368,579,710,1019,279,852
ATP5D_6_733,966,749,901,610,667,646,222,1331,932,211,1074,1393
ATP5E_6_734,0,102,0,2,383,0,0,0,0,0,0,0
ATP5G1_6_735,757,1255,672,1077,849,1912,810,1018,703,1223,2210,529
ATP5G2_6_736,1949,2100,1959,1358,1346,579,1191,1646,950,1682,2172,90
ATP5G3_6_737,1549,1710,999,1560,1469,917,890,411,1394,1879,1823,3443
ATP5H_6_738,783,1009,1372,1166,639,1199,453,1880,1095,1375,315,627
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ATP6V1C2_6_744,342,76,354,260,562,175,358,161,44,188,0,1
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ATP6V1F_6_746,211,217,323,486,11,317,499,163,111,2,1269,415
ATP6V1G2_6_747,618,226,731,343,153,789,556,1135,723,841,434,920
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SLC25A22_6_798,211,200,249,149,308,29,320,179,58,7,35,137
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859

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ABCA10_6_895,1462,1166,1496,1152,1067,2343,608,1102,812,988,2675,1284

ABCA13_6_896,1235,1649,1873,2046,1292,1932,3637,1326,603,698,2059,3632

ABCA1_6_897,3576,3475,3929,3334,4504,3901,3422,3223,3318,3001,3910,3493

ABCA3_6_898,1125,1342,1450,1419,2216,1029,1040,2332,2342,1310,2123,1054

ABCA4_6_899,7519,7373,8286,9996,6684,9989,9543,9011,9067,10676,12345,6876

ABCA6_6_900,908,682,971,1090,81,542,1057,999,1277,1225,891,750

ABCA7_6_901,828,640,699,1053,316,227,1852,1501,338,241,1409,312

ABCA8_6_902,3917,3516,5693,5575,4169,4267,4972,4337,3025,5081,8252,5425

ABCA9_6_903,5306,5495,5541,6137,6760,7338,5115,3480,3175,5602,7519,5142

ABCB10_6_904,1626,1473,1785,2060,907,1043,2781,2304,1101,1357,1865,1339

ABCB11_6_905,3172,3030,3091,2992,3808,1967,3639,2411,2477,3198,5144,4301

ABCB1_6_906,807,1055,1124,1305,474,1550,1004,679,275,1391,1459,672

ABCB6_6_907,4092,3192,4940,4051,3843,5986,4115,3972,6116,7240,6018,3015

ABCB7_6_908,819,924,940,1152,729,522,1895,2375,399,1524,839,1509

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8
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ANXA8_6_925,2790,2453,2851,2416,3178,2492,2466,2935,1490,3954,2965,142
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ANXA9_6_926,1456,1919,1661,1633,212,811,1114,1784,1110,1814,1707,1934
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ATP10B_6_928,1636,956,1965,1724,785,1071,1552,2737,1241,580,2216,677
ATP10D_6_929,4022,4313,4495,5442,4182,4755,4419,7354,3486,7700,6184,53
52
ATP11B_6_930,1469,1184,1362,1425,2129,848,1229,1926,3318,2849,3702,107
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ATP1A3_6_932,1514,1611,1919,2331,1639,2798,2182,1969,1476,1022,2099,28
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ATP1B1_6_933,5701,5609,6333,6792,4205,7094,6499,5957,3639,5083,5173,56
96
ATP1B2_6_934,533,379,618,563,137,33,1318,1595,458,252,588,678
ATP1B3_6_935,1185,458,948,869,190,268,943,565,1066,369,1374,461
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ATP5B_6_938,440,386,585,473,21,928,200,621,495,792,98,1489
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ATP5L2_6_941,5976,4780,6758,6131,4327,10468,6602,7214,4700,6050,8306,5
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ATP5L_6_942,5976,4780,6758,6131,4327,10468,6602,7214,4700,6050,8306,50
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ATP50_6_943,2230,1987,2470,2307,620,2767,1965,1711,1724,1130,2298,2619
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ATP6AP2_6_945,3089,3452,3064,2972,2282,1798,3830,5039,3316,2648,2858,1
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ATP6V1E2_6_955,1298,917,1365,1393,1311,677,1403,2008,784,1488,771,1209
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SLC5A1_6_1102,1975,2223,2460,2832,1038,4042,1897,1539,2072,2521,3669,6157

SLC5A2_6_1103,347,701,494,417,922,133,23,389,346,570,1393,1

SLC5A3_6_1104,5507,4632,6018,6225,6758,5469,6483,4992,3594,8574,6606,5691

SLC5A4_6_1105,4963,5098,6029,6186,7499,5176,5599,5514,3936,8272,5407,5395

SLC5A5_6_1106,4981,5642,6608,5596,7029,8965,6749,7927,2617,10142,6863,4934

SLC5A6_6_1107,936,907,664,1044,1265,146,352,521,427,840,350,330

SLC5A7_6_1108,1220,1398,1483,1575,1234,1101,1273,2008,1364,1658,816,947

SLC5A8_6_1109,2403,2696,3590,3492,1657,6456,2531,4308,3118,3114,6179,4147

SLC6A11_6_1110,703,759,1214,890,551,509,2181,521,469,1149,581,880

SLC6A14_6_1111,4436,4620,5057,5585,3411,5895,7137,6349,5152,6290,5635,5925

SLC6A16_6_1112,1963,1826,2856,2264,2060,1994,2802,3757,1347,3760,2633,1616

SLC6A19_6_1113,781,1425,1236,715,737,1763,1738,2045,1663,137,1361,484

SLC6A1_6_1114,1101,1214,2019,2006,1550,2822,1427,1034,945,2067,2805,1600

SLC6A3_6_1115,868,1113,1279,1574,1160,1723,1342,527,1142,711,1758,716

SLC6A4_6_1116,7344,6686,6813,6293,5851,7977,9001,6293,4484,7754,5465,9420

SLC6A7_6_1117,202,236,316,423,130,10,182,59,61,285,21,308

SLC7A10_6_1118,2158,2008,1845,2309,2333,4997,2984,2216,1884,2116,1283,1598

SLC7A11_6_1119,17532,17102,19440,18145,18903,19839,20488,20342,18080,20432,25698,19847

SLC7A13_6_1120,1821,1543,1461,2288,1398,2643,985,1012,1956,508,2322,2304

SLC7A1_6_1121,8861,9534,9630,10164,7539,7258,7775,9519,6988,10125,14388,10951

SLC7A4_6_1122,243,167,633,588,17,897,5,1038,38,585,289,1077

SLC7A5_6_1123,2365,2324,2825,2303,3132,3202,2696,1740,2053,2047,2502,2850

SLC8A2_6_1124,5577,5549,5904,6238,4381,5968,3507,7105,4731,4391,5503,2530

SLC9A1_6_1125,594,774,1332,604,653,933,1828,229,775,1006,1802,44

SLC9A2_6_1126,351,330,678,597,919,375,473,702,536,0,1888,544

SLC9A3_6_1127,1746,1559,2365,1911,3901,973,2159,2067,81,1008,774,760

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SLC9A4_6_1129,1015,1058,1321,1071,2143,1084,1394,1678,911,779,1062,539

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SLC9A7_6_1131,2611,2256,1934,2536,3820,3588,3595,1673,2621,2208,2793,1
144
SLC9A8_6_1132,312,170,200,396,123,578,3,309,114,108,18,341
SLC9A9_6_1133,2394,2316,2593,2551,1254,4287,1949,1079,1291,4382,4305,2
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SLC01B1_6_1134,2088,1406,3045,3345,3636,2091,3380,3832,2019,1601,4191,
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SLC01B3_6_1135,3178,2884,4167,3038,3482,2084,4009,2668,1985,1534,3223,
3749
SLC02A1_6_1136,5643,6558,6350,6499,6589,6699,6167,8001,3813,3903,7680,
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SLC04A1_6_1137,1141,790,1530,1307,2306,715,1663,15,888,1898,2643,1062
SLC04C1_6_1138,2298,3357,3443,3419,2029,5799,2672,2688,1691,3174,5422,
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SLC06A1_6_1139,8786,9034,10418,10095,9484,12202,9486,8252,7773,9455,13
682,9066
SV2A_6_1140,3494,3126,3674,3667,2055,1225,2042,5414,4574,2351,3756,303
3
TAP1_6_1141,4354,4299,5198,5674,4318,3614,3928,5955,3121,3490,10248,10
098
UCP1_6_1142,1871,2128,2666,2797,5626,3471,1230,2136,2818,3303,3361,383
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ABCA12_6_1143,4387,4152,4871,4714,3661,4534,5462,3710,5154,3779,5891,5
965
ABCA2_6_1144,464,625,476,345,948,47,847,349,94,473,1724,834
ABCA5_6_1145,2083,2083,2245,1991,2410,2727,2902,4090,1320,1951,3141,17
84
ABCB4_6_1146,3899,4579,6067,4766,3519,3624,2248,4808,3647,4631,4942,66
85
ABCB9_6_1147,2481,2509,3263,2845,1070,4630,4206,2043,4206,3927,3620,21
71
ABCC10_6_1148,917,996,905,837,1383,960,1003,350,912,292,2024,1815
ABCC11_6_1149,1039,1501,1343,1492,1062,990,1636,2472,691,626,1253,1130
ABCC1_6_1150,433,439,797,605,859,519,985,19,192,789,885,385
ABCC3_6_1151,368,468,663,838,377,803,472,554,313,537,120,354
ABCC4_6_1152,751,1211,932,904,1073,1093,2314,578,801,857,958,2431
ABCC5_6_1153,1048,1173,1222,743,954,562,584,1296,432,1186,1593,1192
ABCC9_6_1154,1129,1039,912,967,784,2054,655,1166,1239,683,1710,1269
ABCD3_6_1155,5441,4917,5526,5213,8281,7302,5749,6952,5167,7481,9475,77
56
ABCE1_6_1156,1419,1397,2049,1716,2213,1303,2286,1960,1925,628,1800,220
5
ABCF1_6_1157,983,1180,879,871,1056,1988,359,703,782,2332,1781,1589
ABCF2_6_1158,1086,1186,1642,1493,158,1416,1389,1295,574,677,1922,1325
ABCG1_6_1159,6894,6966,7788,7441,6221,8878,6769,10910,5200,6408,4588,6
897
ABCG4_6_1160,1710,2255,2192,2024,1708,2428,2324,2077,1748,2728,3279,20
83
ANXA11_6_1161,278,290,528,209,1047,418,378,47,155,33,274,251

ANXA13_6_1162,2843,3419,3579,3721,3233,2595,2946,3097,2233,5160,5448,3
166
ANXA2_6_1163,761,803,1475,954,1780,1155,1249,687,1366,488,1306,339
ANXA6_6_1164,917,480,664,600,1702,1227,1988,857,239,116,405,199
ANXA7_6_1165,2643,2327,2703,2404,1902,2701,3594,2333,2115,4985,2943,30
06
ATP11A_6_1166,1560,874,1042,985,320,724,888,2926,1649,1013,757,1791
ATP11C_6_1167,539,711,659,751,913,313,554,404,616,428,990,1218
ATP12A_6_1168,746,905,512,656,2469,440,608,856,583,297,1108,774
ATP1A1_6_1169,792,523,587,591,858,978,181,91,245,30,637,421
ATP1B4_6_1170,2716,2615,3088,2251,1183,3154,3151,2318,2231,4971,3592,3
105
ATP2A1_6_1171,1087,961,786,1209,652,2784,927,1077,477,2221,2459,666
ATP2A2_6_1172,2217,3020,3313,3394,2702,4021,3916,2493,2383,1947,2048,4
225
ATP2A3_6_1173,440,424,625,722,1127,249,956,300,675,202,72,1063
ATP2B1_6_1174,933,930,1318,1108,623,475,1470,1751,276,1059,1351,1269
ATP2B3_6_1175,2883,4519,4010,2561,2971,4277,2781,3069,2998,2556,6725,3
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ATP2B4_6_1176,1680,1328,1742,1126,1278,2899,1138,3212,1408,1010,2080,2
046
ATP2C1_6_1177,3858,4482,5293,4939,2472,4217,4585,6081,4580,4883,4965,4
504
ATP5A1_6_1178,3703,2490,3577,3747,2536,2765,3987,3963,4008,2845,3357,2
722
ATP5C1_6_1179,1121,1075,1159,1247,2023,1440,1247,907,441,1560,2080,952
ATP5D_6_1180,246,341,190,181,7,16,319,75,464,173,334,80
ATP5E_6_1181,129,0,0,0,0,0,0,150,0,0,0,0
ATP5G1_6_1182,990,1169,793,545,539,1180,739,1686,1562,725,1065,849
ATP5G2_6_1183,236,181,406,211,270,124,293,12,13,82,883,139
ATP5G3_6_1184,451,193,92,310,3,162,184,66,135,85,595,88
ATP5H_6_1185,4151,3114,2739,3512,1544,3979,4950,3953,1684,6244,4419,44
61
ATP5J_6_1186,1716,1543,2421,2099,4343,1618,1734,3236,2819,1862,2475,24
66
ATP6V0A1_6_1187,6323,6048,6472,7307,3138,11331,7891,8774,11154,4800,71
80,7346
ATP6V0A4_6_1188,7171,6613,7640,8269,10611,10603,10250,10158,6478,7799,
14924,5122
ATP6V0B_6_1189,955,780,827,786,810,920,1613,808,106,822,930,1384
ATP6V0C_6_1190,785,652,819,757,1021,446,784,108,534,1012,1852,1359
ATP6V1C2_6_1191,3833,2914,3452,3221,3111,5955,2514,2664,1642,5579,4594
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ATP6V1E1_6_1192,3534,4150,4183,4015,3552,3242,5207,3800,3352,3636,6426
,6212
ATP6V1F_6_1193,45,57,184,178,19,3,8,0,0,492,248,525
ATP6V1G2_6_1194,137,538,178,122,5,25,8,199,0,2793,368,398
ATP6V1H_6_1195,766,473,789,895,389,476,1302,812,1034,1935,1021,410
ATP7B_6_1196,793,661,965,995,1535,237,1229,1429,1127,1694,950,337
ATP8A1_6_1197,1983,2242,1766,2015,1588,3021,2027,2053,654,1493,2805,21

51

ATP8B2_6_1198,586,640,810,639,1112,949,371,971,523,758,373,572
ATP8B3_6_1199,1992,1831,2962,2406,1851,2395,2924,2773,1484,1738,3033,2
581
ATPAF1_6_1200,225,472,534,528,238,1346,1294,151,106,162,270,852
GC_6_1201,2778,2402,3315,2741,2572,778,2903,3229,3251,3253,4578,4856
SERINC5_6_1202,2119,1923,2494,2675,3469,3131,1862,4385,3330,2917,2184,
2968
SLC10A3_6_1203,350,499,869,747,312,3753,243,505,326,562,63,142
SLC11A2_6_1204,1507,1547,2315,1656,2684,1475,3469,1496,295,4015,2770,2
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SLC12A1_6_1205,7324,6044,7587,8268,7134,5264,10097,7943,4399,6513,1051
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SLC12A4_6_1207,3375,3582,4044,3470,4173,4640,4954,1585,1928,3629,3633,
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SLC12A5_6_1208,6062,7130,7479,7205,6242,8935,6004,8925,5654,7936,10276
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SLC12A8_6_1210,2229,1341,1967,1696,2277,2152,1543,1543,1757,4104,1639,
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SLC13A2_6_1211,4788,4846,4656,5079,4591,3307,6245,3245,3250,4163,6726,
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2379
SLC13A5_6_1213,636,430,963,1249,259,1442,1004,504,146,888,1937,952
SLC14A1_6_1214,2067,1862,1954,2606,968,2940,2117,4981,1313,2670,2637,1
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SLC14A2_6_1215,729,1017,864,647,659,1358,898,226,2079,317,476,133
SLC15A2_6_1216,7389,6785,8380,8393,7915,8040,7190,8173,7957,7530,10293
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SLC16A1_6_1217,2074,2253,2440,2243,2325,2086,1972,2654,1888,2705,5289,
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SLC16A3_6_1218,1794,1568,2469,2239,1044,1696,1745,1456,1185,5076,2556,
2782
SLC16A4_6_1219,4205,3933,4414,4997,4799,3982,7018,5252,2998,6730,7711,
6568
SLC16A6_6_1220,399,301,395,437,594,566,77,412,160,543,45,105
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2844
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SLC18A1_6_1223,615,267,543,383,139,1316,37,1080,559,2002,166,220
SLC19A1_6_1224,1449,1169,1730,1248,1995,1470,3087,1964,1881,866,3033,1
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SLC1A2_6_1225,4255,3389,5269,4740,3429,3492,4651,5720,3142,4712,5348,5
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SLC1A3_6_1226,3525,3168,3598,3140,4584,1658,2829,3799,2451,3586,3702,3
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SLC1A4_6_1227,1681,1596,1786,1591,1624,2289,2638,1804,1091,3242,2746,3

368

SLC1A5_6_1228,549,440,182,386,19,624,67,772,346,586,779,434

SLC22A12_6_1229,1536,834,993,1224,2101,1654,1012,1126,1520,3433,744,1260

SLC22A17_6_1230,1047,1513,2078,1655,3480,2420,1601,1435,1485,2194,3672,1669

SLC22A18_6_1231,935,728,801,1142,652,1783,608,705,335,692,1373,510

SLC22A1_6_1232,493,326,500,312,64,349,97,111,512,378,1176,865

SLC22A23_6_1233,9952,9320,10793,12047,8490,13521,8980,12031,10218,12790,16327,9105

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SLC22A7_6_1235,478,276,683,546,426,159,1321,2029,871,685,1457,204

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SLC23A3_6_1237,1289,1423,1388,1318,864,1318,3697,1289,1104,938,2274,593

SLC24A2_6_1238,9424,10124,11838,9813,9031,7218,9251,11315,4672,8519,10835,8794

SLC24A4_6_1239,1480,1517,1417,2225,1137,1461,2317,1733,2386,815,1486,729

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SLC25A19_6_1243,1195,964,1356,945,513,139,795,1243,873,176,1345,464

SLC25A21_6_1244,1295,896,1463,1510,2811,2595,959,1093,2152,2133,1510,607

SLC25A22_6_1245,1804,1965,2050,2072,2634,516,2588,1965,803,1326,3489,2360

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SLC25A27_6_1247,5331,3870,5092,5044,5054,6759,5999,4755,4581,3959,6224,6084

SLC25A3_6_1248,691,1183,848,929,879,178,1794,1246,863,248,770,516

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6720

SLC28A3_6_1258,3511,2759,3748,3555,3302,5646,3625,3684,2709,6894,5166,4302

SLC29A1_6_1259,886,818,1056,947,1268,2154,844,1603,401,1312,1547,343

SLC29A3_6_1260,3307,3327,4391,4691,3278,7273,1797,4039,2859,3569,3292,3227

SLC29A4_6_1261,3903,3797,5933,4246,7006,2723,4889,8010,3056,6991,3318,4201

SLC2A11_6_1262,707,767,1469,1199,512,677,1088,468,1041,714,2198,745

SLC2A5_6_1263,1357,1457,1523,1674,926,1617,973,1523,1079,1004,2488,1042

SLC2A6_6_1264,129,319,528,278,35,39,363,201,938,703,120,467

SLC2A9_6_1265,125,46,123,272,0,269,20,22,33,9,31,2

SLC30A2_6_1266,842,746,748,767,1070,1455,774,1661,111,1058,1199,1608

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SLC33A1_6_1270,2116,2070,1880,2436,2726,3727,2716,1571,2717,3326,2848,1606

SLC34A1_6_1271,1707,1579,1758,1979,2415,1894,1126,3996,1175,3345,1328,1596

SLC34A2_6_1272,543,277,827,426,20,684,134,598,37,161,2250,740

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SLC35A1_6_1274,545,419,674,443,569,142,632,315,100,661,311,391

SLC35A2_6_1275,538,771,1007,816,393,806,1037,1443,588,196,1880,2072

SLC35B3_6_1276,9496,9553,11050,9018,5116,10956,6957,6375,6631,9947,11121,6809

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SLC37A2_6_1281,1533,1423,1831,1893,1307,1295,1355,2614,2305,2513,907,2599

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SLC38A11_6_1284,3598,3099,3969,3369,9144,3348,3095,3447,1794,3026,3345,6702

SLC38A1_6_1285,14086,15545,15781,14138,13773,14636,15583,15328,14764,14523,17321,18053

SLC38A4_6_1286,11511,12011,10841,11375,10649,18125,11529,10923,11103,12988,18048,12663

SLC38A6_6_1287,6961,7253,8077,7468,4033,9117,7202,8517,3438,8100,10257,10470

SLC39A10_6_1288,5426,5218,7115,7382,7154,10586,7981,7227,6878,7542,9772,10639

SLC39A11_6_1289,2719,2951,3196,3083,2665,3066,1922,3780,2069,2562,4687,3435
SLC39A12_6_1290,2413,2707,2331,2848,2572,3134,2536,2666,4115,3215,1385,2700
SLC39A13_6_1291,3564,3019,3187,3238,8446,3300,4227,2919,2069,3752,3683,5677
SLC39A14_6_1292,780,106,622,433,502,573,348,88,1125,854,157,342
SLC39A4_6_1293,1929,1778,2385,2274,2755,3851,2068,1917,696,3341,1480,2661
SLC39A5_6_1294,187,72,173,162,846,170,6,3,279,282,18,479
SLC39A6_6_1295,3634,4081,5302,4458,3264,2728,4137,4862,3165,5831,4955,3242
SLC39A7_6_1296,447,726,390,701,40,137,899,1080,367,381,881,1658
SLC39A8_6_1297,1872,1394,1207,1134,1143,1723,1645,2337,1873,1516,2345,851
SLC3A2_6_1298,242,471,426,344,165,20,169,160,85,992,815,88
SLC43A1_6_1299,606,711,411,662,871,421,511,123,797,833,479,428
SLC44A3_6_1300,932,760,654,372,267,145,1625,293,609,563,701,727
SLC4A10_6_1301,1826,1724,2641,2126,916,1097,1849,809,2287,1497,2417,2146
SLC4A11_6_1302,2640,2473,3044,3082,1491,3686,2821,2903,2208,5817,2806,1825
SLC4A2_6_1303,267,320,307,339,656,12,111,150,154,145,1591,59
SLC4A3_6_1304,3340,1896,2683,2919,2315,2686,3302,3550,1986,2909,2767,2276
SLC4A4_6_1305,3540,2853,4038,3101,4400,4925,2944,4137,3291,5120,6708,4200
SLC4A8_6_1306,1500,1218,1402,1825,538,861,1080,1352,592,1242,3029,1483
SLC5A10_6_1307,1952,1357,1983,1171,1943,1889,2224,1831,726,1070,1926,381
SLC5A9_6_1308,1878,1318,1832,1120,1544,2509,2231,1938,798,1022,1933,374
SLC6A12_6_1309,5713,6401,7495,6935,6515,6626,6102,8211,5948,5855,7748,5134
SLC6A13_6_1310,326,462,458,569,1,17,858,0,139,77,446,478
SLC6A15_6_1311,2981,3385,3869,4594,5360,6786,2927,2512,2533,3204,4503,2188
SLC6A2_6_1312,975,1122,1367,1268,1048,1124,592,544,1650,1839,1265,1085
SLC6A6_6_1313,242,42,123,244,362,184,333,124,20,112,67,205
SLC6A8_6_1314,2096,2079,2854,2511,2542,1143,1446,3642,3218,981,3790,1502
SLC6A9_6_1315,252,96,307,546,281,679,68,1378,126,207,679,379
SLC7A2_6_1316,2715,2602,3065,3153,2465,2112,2777,2849,1208,3552,3325,3289
SLC7A3_6_1317,2105,1847,3181,1590,2163,1778,1919,1244,1610,4187,3756,2080
SLC7A6_6_1318,466,35,900,150,68,558,118,639,528,3,659,1760
SLC7A7_6_1319,634,742,637,445,480,352,1380,1897,1113,1540,456,527
SLC7A8_6_1320,1493,1153,1601,1159,592,1002,1241,745,913,294,956,272
SLC7A9_6_1321,390,640,324,290,796,211,493,36,18,820,122,68

SLC8A1_6_1322,14307,13811,15573,15679,16243,17509,11867,14390,12884,15
823,18350,14151
SLC8A3_6_1323,366,197,697,551,221,579,347,162,325,571,430,146
SLC9A3R2_6_1324,1451,1405,1497,2231,517,1262,3210,2141,716,1624,979,14
08
SLC9A6_6_1325,516,934,758,802,818,598,1103,597,809,374,1786,622
SLC01A2_6_1326,666,319,462,396,203,774,184,509,917,247,1325,96
SLC01C1_6_1327,2660,2571,3153,3151,2495,4440,4384,3347,2761,6130,3049,
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SLC02B1_6_1328,1364,1570,1360,1625,1454,1487,1596,3224,2559,1715,2512,
353
SLC03A1_6_1329,82,96,42,186,104,32,184,34,3,359,319,68
SLC05A1_6_1330,2068,2675,2564,1542,1665,1615,1202,1200,1611,2703,4729,
4112
ABCB5_6_1331,2334,2778,2708,2653,2584,1959,3383,1215,2585,1931,4303,20
21
ABCC6_6_1332,317,531,425,443,1,149,227,0,441,138,14,23
ATP1A4_6_1333,2045,2415,2388,2442,741,1767,1430,1865,1150,3160,3744,25
73
ATP5J2_6_1334,6999,5440,7764,7592,2706,4920,5881,6253,3526,9866,5971,8
079
ATP5S_6_1335,388,460,716,360,546,345,575,144,128,371,455,379
ATP6V1G3_6_1336,7733,8651,8580,9743,12797,11448,9963,8577,4301,9029,12
441,7966
ATPIF1_6_1337,1483,870,1232,1370,1936,2007,1339,1888,2690,1764,2243,14
60
SLC10A7_6_1338,3000,3934,3663,3798,4685,4625,3596,4752,3129,3391,4076,
4008
SLC28A1_6_1339,1477,1414,1547,2536,2523,3421,2549,896,1004,3092,2085,2
283
SLC30A5_6_1340,1994,2047,2430,1939,1533,1389,1826,2583,1905,2633,3501,
2986
SLC39A3_6_1341,4915,4858,5641,5383,4519,2322,7121,5723,3841,6086,4353,
5424
ABCA10_6_1342,5480,5824,6630,4988,8697,5739,7174,6712,5295,5262,6147,8
035
ABCA13_6_1343,5520,5084,6968,6325,7888,7693,8210,5031,3637,5379,9216,5
532
ABCA1_6_1344,4716,3612,5905,6096,4395,4952,5459,6160,3667,5015,7469,78
46
ABCA3_6_1345,1079,1102,1440,1682,1734,1111,1783,2013,871,3741,2769,680
ABCA4_6_1346,1268,1152,1463,1808,757,1110,861,1019,1564,1708,639,1785
ABCA6_6_1347,2061,1739,2469,1912,1275,1798,2360,3958,2677,2081,1716,20
28
ABCA7_6_1348,665,594,1041,514,111,758,269,209,326,1166,631,1024
ABCA8_6_1349,5768,5474,6246,6826,7210,8691,5912,4950,4670,8393,6628,46
01
ABCA9_6_1350,1847,2460,2535,2601,2100,2461,1812,2085,2815,2958,3630,32
14
ABCB10_6_1351,212,282,247,508,0,375,252,418,81,48,314,87

ABCB11_6_1352,3111,3112,3543,4003,3318,1583,4334,2307,2466,5552,4749,4525
ABCB1_6_1353,2777,2791,3246,2632,3582,3384,1547,4000,2363,3368,2377,3895
ABCB6_6_1354,856,531,920,1170,2816,1016,767,1213,122,696,1232,1740
ABCB7_6_1355,9971,9736,11982,10645,9979,8837,12764,8312,6203,9066,12546,11644
ABCB8_6_1356,3221,3481,3558,3609,2845,1152,3559,4203,2090,2909,5607,2834
ABCC12_6_1357,1940,1250,1564,2359,864,3424,1156,1551,2281,1589,1475,1232
ABCC2_6_1358,1187,830,1069,1192,337,835,1183,443,541,472,1170,1095
ABCC8_6_1359,667,1068,928,1202,848,733,251,634,1494,1264,1461,620
ABCD1_6_1360,3123,2865,4185,3775,4574,4887,4471,3889,4449,7497,5005,2728
ABCD2_6_1361,727,1488,1344,1160,423,228,1806,1630,1164,1507,1634,1448
ABCD4_6_1362,2585,2557,2789,3818,1804,4479,3035,2651,2094,2233,3736,2956
ABCF3_6_1363,1348,1850,1649,1972,837,2165,900,1600,1652,882,1856,1194
ABCG2_6_1364,1876,1707,3588,2675,2403,2250,4017,4233,2426,2308,3671,1613
ABCG5_6_1365,815,813,1311,800,97,925,756,376,269,1729,434,695
ABCG8_6_1366,4100,3980,4588,5334,7973,5727,4955,3722,3898,4303,3699,3689
ANXA10_6_1367,702,564,652,494,608,317,377,903,1756,1477,1286,512
ANXA1_6_1368,2088,1644,2386,1811,1193,1605,985,770,1964,870,4960,2225
ANXA3_6_1369,2290,1939,2366,2250,2769,2625,1009,2278,1163,1156,3321,3022
ANXA4_6_1370,2219,1946,2315,2611,1614,3202,2722,2727,421,2177,3393,1440
ANXA5_6_1371,945,690,701,1051,833,1493,471,198,460,337,897,1224
ANXA8_6_1372,810,426,642,732,608,461,82,1082,313,185,353,960
ANXA9_6_1373,1443,2032,1776,2038,611,588,1029,1723,2469,1874,1909,1547
ATP10A_6_1374,4468,5035,5435,4838,4577,3535,5214,4830,4299,2561,7016,6120
ATP10B_6_1375,4281,3846,5641,5515,3327,4613,4070,3546,3790,3634,5610,2918
ATP10D_6_1376,1471,1584,2004,1763,1753,3477,828,2046,534,1687,3169,1418
ATP11B_6_1377,2661,1707,1999,2866,1917,2147,865,1754,1336,2302,3256,2027
ATP1A2_6_1378,1734,1502,1121,1349,670,3357,1357,2624,1891,2059,2099,1671
ATP1A3_6_1379,1031,1289,1139,1551,1533,1471,2484,1686,778,643,1151,1970
ATP1B1_6_1380,1095,876,856,973,1095,1419,671,258,494,1329,1221,632
ATP1B2_6_1381,4049,5082,6500,4924,2915,5299,3032,4408,5381,3731,5645,5373
ATP1B3_6_1382,573,770,842,645,710,744,1644,2231,58,917,984,1093
ATP4A_6_1383,585,1035,1019,875,1566,1206,1564,637,638,963,756,90

ATP4B_6_1384,544,317,423,918,257,365,272,789,737,1944,752,754
ATP5B_6_1385,423,439,712,686,1594,74,239,1217,1369,219,828,149
ATP5F1_6_1386,1795,2027,2447,2262,2093,400,2635,2794,1870,863,2452,206
5
ATP5I_6_1387,503,521,304,501,245,893,370,43,543,43,99,447
ATP5L2_6_1388,4298,3699,4187,4785,2816,4748,6150,3129,4657,5891,5473,3
430
ATP5L_6_1389,4298,3699,4187,4785,2816,4748,6150,3129,4657,5891,5473,34
30
ATP50_6_1390,2228,2564,2334,2276,1576,2150,5362,3689,1443,2211,5638,15
88
ATP6AP1_6_1391,5751,4384,7419,6258,7224,9082,7177,7186,3551,4075,7983,
6888
ATP6AP2_6_1392,308,240,463,667,1293,141,305,419,1387,337,798,343
ATP6V0A2_6_1393,1467,1291,2353,1871,1899,2142,782,814,2077,1300,3977,1
141
ATP6V0D1_6_1394,5743,4551,6791,5917,5180,8239,4666,5140,4517,4737,8623
,8135
ATP6V0D2_6_1395,4308,3968,4451,4065,4501,3804,3103,7392,3556,2346,3699
,3777
ATP6V0E1_6_1396,841,688,1008,440,1466,93,621,568,1014,1377,1821,347
ATP6V1A_6_1397,2989,3136,3846,3152,3762,3552,6031,4128,1914,3522,5738,
2693
ATP6V1B1_6_1398,1345,1625,1452,1185,1440,2345,1646,2718,1065,596,1671,
1574
ATP6V1B2_6_1399,12894,11395,14053,12200,11841,13751,12989,10730,10981,
13774,15215,13014
ATP6V1C1_6_1400,1052,1104,1714,1084,2156,383,1243,1613,1490,963,1891,1
235
ATP6V1D_6_1401,1974,1305,1730,2079,1324,2522,1976,1396,1608,2161,3002,
2488
ATP6V1E2_6_1402,1545,1243,1672,1478,1014,2141,835,3242,856,423,1625,28
83
ATP6V1G1_6_1403,1895,1864,2331,2288,2193,1298,3836,1187,3018,2026,3764
,1030
ATP7A_6_1404,13084,11338,13983,14818,12339,13508,9723,16324,9520,19540
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ATP8A2_6_1405,5920,5306,7045,7758,6096,7908,8237,9064,8666,6636,10616,
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ATP8B1_6_1406,1358,1120,1353,880,1172,759,1329,1842,685,645,2130,1205
ATP8B4_6_1407,298,310,485,290,123,189,138,219,258,219,988,87
ATP9A_6_1408,1091,518,1417,1354,812,1621,1659,858,1079,1970,1339,1408
ATP9B_6_1409,3800,3068,3617,3719,2657,2863,3963,3239,2372,3302,4098,33
12
ATPAF2_6_1410,464,580,549,434,230,395,1009,721,475,1132,719,330
FLVCR1_6_1411,6306,5855,6772,6614,5030,5960,6838,6182,6135,7847,9352,5
065
RHBG_6_1412,743,1190,1414,1441,2146,1481,1443,978,1869,3016,1202,1598
RHCG_6_1413,785,1022,1076,1503,110,2929,839,506,1062,118,1121,721
SLC10A1_6_1414,2699,3198,3308,3327,2080,3799,3296,3358,2834,2557,3251,

3788
SLC10A2_6_1415,4314,3116,5461,5158,2235,6059,6913,5006,3958,3707,9857,4752
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SLC10A5_6_1417,3643,3453,3885,4451,1861,3853,3796,4729,4052,7113,4482,3392
SLC10A6_6_1418,2791,3338,3178,3703,2979,7085,3018,3714,5044,3534,6519,4194
SLC11A1_6_1419,2578,3236,4006,3515,3788,4285,4030,3941,3983,2125,3211,3824
SLC12A2_6_1420,3467,3178,3655,4009,3125,1892,3818,3257,4287,2594,6767,3307
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SLC13A1_6_1423,3092,2672,2512,2967,2035,1510,2595,4335,1904,1463,2354,2832
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SLC15A1_6_1425,4370,3225,4505,3739,2019,4077,4345,3506,2494,4489,6862,4309
SLC15A3_6_1426,54,104,222,295,625,149,661,966,133,281,163,2
SLC15A4_6_1427,3078,2758,3711,3702,4047,2527,4281,2650,2802,2553,5982,3606
SLC16A10_6_1428,3025,3257,3698,3816,7694,3830,1434,2089,4574,4220,3803,2709
SLC16A11_6_1429,1841,1033,1777,1575,377,3036,2063,950,1368,2239,3179,1559
SLC16A12_6_1430,2778,2470,3404,3084,3523,5564,4179,2421,3108,3428,6603,2543
SLC16A2_6_1431,712,237,743,689,1027,1254,834,667,195,248,1807,337
SLC16A5_6_1432,516,335,451,378,87,453,119,226,229,2120,340,874
SLC16A7_6_1433,10578,10215,12214,13541,10228,15043,13296,12819,8336,13618,14105,7462
SLC16A8_6_1434,473,294,869,726,313,205,637,1035,167,174,787,166
SLC17A1_6_1435,8239,8620,9863,8438,8501,7640,10451,12092,6086,9349,11506,10749
SLC17A4_6_1436,1694,2400,1449,2042,2418,1159,1192,4058,1299,1774,1695,2844
SLC17A5_6_1437,5090,4643,5730,5183,4842,7916,6002,4937,7431,7536,5868,4454
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SLC17A7_6_1439,2230,1843,2591,2797,2065,3752,2187,1357,2045,1116,1972,1734
SLC18A2_6_1440,3427,2612,3021,4070,6168,5602,3785,3526,3546,1813,3986,4665
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SLC19A2_6_1442,323,513,448,782,181,6,810,1213,55,1399,584,453

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SLC20A1_6_1447,2393,2860,2323,2754,2010,1403,2983,3487,586,2502,3569,2234
SLC20A2_6_1448,1893,2073,2393,2682,4346,2417,1175,2539,2904,2085,3499,2635
SLC22A10_6_1449,3731,3800,4437,4146,4825,3244,4666,3672,2161,4829,4615,1496
SLC22A11_6_1450,3938,3185,4270,3970,3179,1821,2241,4306,3866,2582,5058,5920
SLC22A13_6_1451,2874,2537,3865,2491,4246,4286,4389,2630,3800,3644,4615,3316
SLC22A14_6_1452,2305,1754,1698,1650,1203,4247,1925,1654,2328,3107,3992,1577
SLC22A15_6_1453,1074,937,1187,666,250,775,1642,722,744,1724,708,1172
SLC22A16_6_1454,9523,9914,11447,10819,7028,14195,9766,13242,8401,8706,10206,9838
SLC22A18AS_6_1455,2000,1253,1905,2118,2178,1722,1921,2134,2154,2397,1628,1021
SLC22A2_6_1456,2682,3272,3401,2903,3385,1435,1431,3176,1482,3296,2289,3365
SLC22A3_6_1457,823,1279,953,959,1913,123,1100,332,434,1798,939,1958
SLC22A4_6_1458,2788,2921,3330,3210,3535,1503,2748,3733,1533,3490,3093,2588
SLC22A5_6_1459,1527,550,1384,881,1380,431,1880,308,722,1972,1607,864
SLC22A9_6_1460,2496,3498,3479,2890,2015,2720,5134,3268,3103,6101,3595,4109
SLC24A1_6_1461,1718,1700,1867,1725,748,2812,1308,2059,3581,1897,2850,2246
SLC24A3_6_1462,706,962,502,607,266,12,424,446,729,1545,944,587
SLC24A5_6_1463,1415,1872,1122,1293,817,1240,1564,770,2667,914,2900,1746
SLC24A6_6_1464,294,516,476,569,265,961,568,501,42,564,628,402
SLC25A10_6_1465,6224,5352,5381,4846,4134,6006,6028,4957,5135,5093,7367,4568
SLC25A12_6_1466,1925,2204,1705,2654,2022,2049,1886,2126,2043,2353,3332,1997
SLC25A15_6_1467,1886,1848,1752,1865,510,2476,3516,1508,1669,1683,2814,1728
SLC25A16_6_1468,4625,4574,4444,4754,6869,5890,7612,4883,3665,2775,6073,3988
SLC25A17_6_1469,3657,3918,4464,4448,2998,3812,3836,4659,2797,5514,6644,4391
SLC25A18_6_1470,537,681,562,569,75,1488,468,525,123,39,2114,61

SLC25A1_6_1471,462,413,426,487,109,329,1458,58,161,133,486,441
SLC25A20_6_1472,1493,1448,894,898,1310,584,1042,538,1163,159,1272,683
SLC25A28_6_1473,389,1054,1263,803,1278,1641,518,582,420,1569,1340,1432
SLC25A2_6_1474,17694,16910,18927,18659,17509,21929,17928,18731,16783,1
8982,20131,19246
SLC25A32_6_1475,313,537,538,442,702,1066,1893,208,222,474,43,836
SLC25A37_6_1476,955,962,1046,934,232,272,1320,940,538,701,912,519
SLC25A43_6_1477,3037,2306,3411,3266,1857,5888,3368,3139,2028,2405,5533
,2331
SLC25A44_6_1478,860,755,723,682,698,331,613,57,701,358,726,1026
SLC25A4_6_1479,157,527,761,775,218,3,439,416,730,677,1531,12
SLC25A5_6_1480,2641,2017,2656,2795,1560,1496,2799,853,3378,1443,3932,2
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SLC25A6_6_1481,5100,5761,7378,6166,5332,8490,6751,6355,6150,6476,6205,
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SLC26A10_6_1482,663,422,866,790,486,420,1100,1030,925,428,817,825
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SLC26A3_6_1484,1562,1381,1878,1614,1985,2171,1865,2752,2024,1452,1508,
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SLC26A4_6_1485,6828,5464,7116,6844,3703,6469,5263,11048,6434,7305,6613
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SLC29A2_6_1491,252,345,56,207,308,155,7,213,711,2,357,423
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SLC2A12_6_1493,1651,1470,1639,1386,380,3253,822,1467,1157,3170,2603,26
35
SLC2A13_6_1494,639,658,689,408,219,33,483,78,257,279,695,1581
SLC2A14_6_1495,1120,491,1448,1208,1123,1472,5,1012,681,1085,954,1
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962,17148,13113
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SLC30A9_6_1507,1947,2023,1549,2652,3155,454,3864,2627,1626,2645,3071,2
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SLC31A1_6_1508,2161,2176,3192,2746,2491,3664,5195,4462,1163,1993,1826,
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SLC32A1_6_1510,636,426,722,881,91,545,849,1302,455,522,819,1
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SLC35A4_6_1512,731,442,584,579,509,2030,129,413,1792,2682,644,1479
SLC35A5_6_1513,886,879,825,816,430,221,582,533,313,786,1073,518
SLC35B1_6_1514,2370,2603,2934,2721,2955,3007,2080,2305,2314,3728,4619,
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SLC35D1_6_1517,6222,7168,8398,8142,4261,10099,8664,4356,6998,6959,1045
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952
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,6147
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SLC36A2_6_1529,180,107,226,152,199,444,1,324,43,436,187,307
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SLC37A1_6_1531,380,530,749,1072,1449,1763,856,262,70,725,1059,252
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SLC38A3_6_1533,1754,1431,1701,1777,2290,2120,2185,3302,2470,1619,3780,
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SLC38A5_6_1534,1280,1365,1459,1416,2594,332,1064,1901,1492,1674,4185,6
95

SLC39A1_6_1535,746,597,729,997,1459,393,700,916,759,52,1010,206
SLC39A2_6_1536,4351,3610,3883,3790,2947,7022,6933,1195,2110,3508,5385,
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SLC39A9_6_1537,218,142,104,283,0,628,231,253,403,798,152,39
SLC3A1_6_1538,2582,1790,3142,2956,1678,2150,2820,1115,2051,2100,4079,2
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SLC40A1_6_1539,4369,4542,4375,4311,2129,2641,5610,4152,2350,5496,4442,
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SLC41A1_6_1540,782,452,567,677,2119,828,825,108,411,1380,453,783
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SLC44A1_6_1542,1145,1179,1263,1413,958,1009,958,2857,1661,1499,1551,70
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SLC5A2_6_1550,3918,3068,2817,2956,3276,2733,4174,2688,1688,4691,5429,3
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SLC5A3_6_1551,1634,1583,1415,2067,1178,1207,2873,1243,1011,3884,2569,8
33
SLC5A4_6_1552,1268,1021,1635,1289,987,2742,1398,2067,672,2434,2392,329
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SLC5A5_6_1553,993,751,1419,629,1453,294,1169,889,515,907,1250,1225
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98

SLC6A4_6_1563,1314,903,1249,1448,3400,613,955,3006,1064,2322,2989,1677
SLC6A7_6_1564,1018,1289,1302,1352,727,1811,1908,1178,555,1677,2525,696
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SLC7A11_6_1566,3892,3710,3944,3971,4842,2999,5147,3611,2944,2927,7759,4584
SLC7A13_6_1567,5861,4707,7724,6814,8133,10863,7296,5587,5778,6921,6581,9732
SLC7A1_6_1568,1412,2382,1079,1917,785,1469,1430,946,1670,695,2069,1341
SLC7A4_6_1569,995,836,1165,1601,1009,683,2124,343,559,694,1340,2074
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SLC9A1_6_1572,237,154,185,210,673,493,521,1281,21,18,575,662
SLC9A2_6_1573,737,743,1027,1189,1341,1274,326,1441,14,2054,1600,1423
SLC9A3_6_1574,1762,1626,2102,2118,673,3256,3641,2222,1984,1389,2994,1955
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SLC9A9_6_1580,752,1034,1325,877,1986,133,1246,2126,552,495,1155,1923
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TAP1_6_1588,9516,8230,11155,10363,9295,11982,7299,10661,6472,17520,13019,7884
UCP1_6_1589,1939,1573,2329,1941,1403,1609,1836,3454,1005,1691,2054,3864
ABCA12_6_1590,3082,2919,3755,3593,1823,2425,2853,5152,3080,5101,5358,4040
ABCA2_6_1591,1454,811,1305,1238,226,1261,890,955,524,3393,251,1682
ABCA5_6_1592,7531,7707,8286,7500,8236,11116,11444,8390,6192,8371,8174,6912
ABCB4_6_1593,4352,4569,4776,4411,3064,3856,3015,6308,2950,4373,5589,3500
ABCB9_6_1594,958,945,795,1066,867,1633,556,146,1221,1992,2109,774
ABCC10_6_1595,746,768,1285,983,573,682,685,434,665,1145,598,464
ABCC11_6_1596,813,1566,1864,1650,1161,1395,1935,787,852,2443,1445,1199
ABCC1_6_1597,3363,3333,4033,3529,2681,6019,4932,1038,2714,5905,4073,47

74

ABCC3_6_1598,6069,6448,6196,6866,6272,9390,4211,7802,6306,7157,8923,7025

ABCC4_6_1599,5095,4626,5827,5577,5470,4548,6043,6002,3762,4488,7218,4505

ABCC5_6_1600,424,787,1268,1221,930,233,424,1054,421,1106,1169,1219

ABCC9_6_1601,1555,1494,2210,1875,2227,1492,3208,1158,1197,1513,1989,3307

ABCD3_6_1602,1305,1605,1493,2056,2016,2335,1085,1886,935,1300,943,2542

ABCE1_6_1603,2165,2403,2555,2258,3463,3260,2346,1955,2615,1533,3748,458

ABCF1_6_1604,1445,2227,2709,2383,882,1864,3428,2143,1156,2424,2311,2383

ABCF2_6_1605,467,1001,1067,400,337,324,786,451,433,2,660,31

ABCG1_6_1606,1302,875,1692,1559,2375,440,976,1772,1076,2486,3198,937

ABCG4_6_1607,391,512,633,870,424,747,2907,59,59,106,942,1343

ANXA11_6_1608,2222,3436,3669,3201,1703,2249,2610,3561,2911,3240,4006,3612

ANXA13_6_1609,2387,1985,1603,1604,3939,1287,1367,2194,1097,690,1128,1781

ANXA2_6_1610,3218,3194,3765,3570,2259,2870,3772,4647,1583,2936,3727,2767

ANXA6_6_1611,2894,3173,3973,3321,2408,6316,4115,3293,3343,4612,3377,2894

ANXA7_6_1612,1177,968,1128,1201,1797,327,574,2316,1104,1318,1157,1091

ATP11A_6_1613,1575,1067,1397,825,2551,1570,903,1426,1410,2304,1172,787

ATP11C_6_1614,3390,3939,4352,4474,3618,3364,3560,3952,3580,5463,3345,4390

ATP12A_6_1615,4020,3269,4572,2928,4086,5521,2131,8155,3346,3486,6790,4233

ATP1A1_6_1616,937,636,992,747,138,1120,403,775,1256,1015,1422,245

ATP1B4_6_1617,7865,7764,10008,8010,7178,9953,8473,12806,5723,7112,11255,10555

ATP2A1_6_1618,1025,1031,1217,1628,2646,878,1231,998,371,1500,2216,1350

ATP2A2_6_1619,1961,1741,2272,2455,2299,1187,3105,1919,2505,1706,3399,3256

ATP2A3_6_1620,357,640,881,479,1014,335,318,93,207,148,219,281

ATP2B1_6_1621,755,776,810,935,320,1451,409,802,577,2189,1395,726

ATP2B3_6_1622,1900,1845,1655,1896,1736,1832,2101,1457,1110,1602,1022,2001

ATP2B4_6_1623,1184,1232,1704,1254,1129,308,2126,1556,1244,1513,658,1319

ATP2C1_6_1624,2332,2186,2089,1848,2208,1050,2230,1816,2478,2767,2708,1532

ATP5A1_6_1625,4033,4130,5218,5443,5047,4774,4095,5452,3651,6014,7755,6122

ATP5C1_6_1626,8798,6519,9080,9404,7925,6918,5916,8897,6721,6816,9789,6955

ATP5D_6_1627,771,699,639,1038,1269,204,84,978,1006,439,1708,541

ATP5E_6_1628,1641,1420,2144,1956,1053,2877,860,2479,2013,2428,2617,174

2

ATP5G1_6_1629,722,574,573,850,251,719,990,1031,253,63,326,1074
ATP5G2_6_1630,1201,1231,1170,1250,43,142,890,494,1817,1746,908,494
ATP5G3_6_1631,1150,1745,1900,1612,616,3338,837,1354,744,2790,3733,3129
ATP5H_6_1632,4170,2892,4343,3827,3512,4931,3509,4808,3151,3495,4109,43
40
ATP5J_6_1633,975,917,1093,915,533,1273,1042,1170,377,662,1245,1473
ATP6V0A1_6_1634,1122,1266,1240,1289,591,309,1492,2555,1413,1845,2338,6
36
ATP6V0A4_6_1635,1733,602,1438,1058,350,1362,1119,627,2222,2095,1444,15
26
ATP6V0B_6_1636,2459,2162,2323,2631,2059,2942,663,1483,646,2682,3423,12
06
ATP6V0C_6_1637,2376,2662,2657,2868,2872,5336,2574,2391,2210,4080,2741,
2327
ATP6V1C2_6_1638,1814,1200,2234,1840,1348,2233,1388,2008,1729,1442,1860
,1459
ATP6V1E1_6_1639,2707,2445,3864,3530,2933,5561,5654,3017,3166,3975,4771
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ATP6V1F_6_1640,214,452,579,955,1,277,224,1895,260,911,104,266
ATP6V1G2_6_1641,625,469,546,471,95,157,2,14,20,718,528,467
ATP6V1H_6_1642,3791,3325,4369,4268,3559,4282,5767,5094,2746,4916,5105,
5027
ATP7B_6_1643,2037,1894,1767,1566,755,1331,1313,4897,1455,2838,2530,163
4
ATP8A1_6_1644,1438,1276,1171,1131,1334,479,863,3165,882,665,2270,1782
ATP8B2_6_1645,326,397,333,362,3,34,558,506,738,375,154,220
ATP8B3_6_1646,958,1344,756,1131,1065,242,1917,129,498,1280,1105,555
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353
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SLC22A8_6_1683,1625,1364,1606,1551,1060,1533,1535,2306,1416,1801,1978,
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55
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SLC39A6_6_1742,1334,495,1127,1142,215,1018,948,582,143,923,3138,409
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773,10098
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267
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21
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ABCA1_6_1790,4490,4544,6655,5912,2136,3883,9271,8597,5261,4765,11659,2
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ABCA3_6_1791,3571,2687,3382,2976,2495,4469,4436,1735,3191,2910,5883,20
63
ABCA4_6_1792,97,238,723,265,298,27,587,255,0,459,67,322
ABCA6_6_1793,1502,2302,1934,2476,764,272,1050,1780,450,2956,4310,2385
ABCA7_6_1794,346,603,666,478,554,602,122,121,490,737,557,2590
ABCA8_6_1795,3352,3692,4034,3335,1094,3355,4524,6524,3843,4764,4896,37
07
ABCA9_6_1796,907,1014,1630,1545,1327,495,1095,465,1735,1725,1448,841
ABCB10_6_1797,1753,1959,1774,2329,2849,2536,2079,3353,948,1849,4312,90
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ABCB11_6_1798,5358,5415,6437,5728,5204,5073,4811,4006,3752,5463,7179,6
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ABCB1_6_1799,385,722,817,693,391,1226,685,2043,897,425,305,1568
ABCB6_6_1800,854,1226,1090,1004,1581,1710,1408,1270,259,1692,166,421
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9
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053
ABCC2_6_1804,2,2,1,41,1,1,0,0,1,2,0,130
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89
ABCD1_6_1806,1594,1371,1425,1401,1164,952,1298,953,1612,737,2524,1754
ABCD2_6_1807,11064,10866,13308,12517,6525,11216,11702,16414,7045,12106
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ABCD4_6_1808,830,785,1103,860,501,1301,720,241,137,813,1301,1382
ABCF3_6_1809,4408,4686,5517,5090,2449,5141,3585,3586,4995,4464,5754,45
17
ABCG2_6_1810,4477,4314,5348,5254,3830,3375,7315,5343,3598,3502,7283,35
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ABCG5_6_1811,5302,5714,6292,5900,4622,3846,4013,6851,2853,4812,6881,44
28
ABCG8_6_1812,187,424,363,327,688,154,231,1048,665,329,507,313
ANXA10_6_1813,9389,9989,12881,9619,9898,13525,11382,13262,11301,10960,
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ANXA1_6_1814,917,866,1142,983,1913,1055,1001,1073,1226,392,2387,954

ANXA3_6_1815,3299,3334,4128,3831,3993,6097,2349,3120,3322,4332,6709,26
94
ANXA4_6_1816,40,12,62,83,364,20,1,0,130,28,3,150
ANXA5_6_1817,1769,1571,2120,2114,2802,3473,3152,2435,1228,1294,2604,19
43
ANXA8_6_1818,2898,3669,3838,3326,5835,3225,3779,3403,3281,4059,4625,36
53
ANXA9_6_1819,1032,759,1201,1539,1788,2192,425,855,684,556,2381,904
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ATP10B_6_1821,2590,3185,3421,2303,3153,2589,1900,2869,1195,2545,3903,2
487
ATP10D_6_1822,2130,3095,2403,2077,3733,3943,2995,2009,2787,1921,4412,3
005
ATP11B_6_1823,1961,2459,1615,1612,835,2100,1175,2028,1605,510,3121,441
6
ATP1A2_6_1824,2379,2018,2750,2881,1809,2205,4005,1086,1206,470,3830,52
92
ATP1A3_6_1825,1485,2027,1757,2000,968,1038,1218,1006,1077,1130,1126,13
73
ATP1B1_6_1826,2186,1694,3257,2464,1725,2670,3285,1512,2038,3258,2985,3
132
ATP1B2_6_1827,852,834,698,926,938,336,647,767,756,1003,375,568
ATP1B3_6_1828,5689,8227,8329,7092,4882,5342,10180,6991,4753,7545,7468,
8122
ATP4A_6_1829,3212,2238,3019,2869,2135,1989,1709,3694,3011,4339,4448,20
05
ATP4B_6_1830,127,280,243,320,277,0,21,223,5,824,282,232
ATP5B_6_1831,2810,2998,3656,3534,1401,2798,6189,3077,2258,3987,5791,33
19
ATP5F1_6_1832,3495,3136,3330,3081,2220,1908,5639,2952,3705,2663,4135,4
415
ATP5I_6_1833,890,465,1143,742,1159,276,1061,1026,1111,667,1302,1403
ATP5L2_6_1834,11653,10789,14128,11949,14147,14147,15808,17200,7862,134
80,10376,9692
ATP5L_6_1835,247,309,601,383,720,211,648,2112,90,346,305,358
ATP50_6_1836,784,1015,770,627,236,376,562,564,163,273,685,233
ATP6AP1_6_1837,1031,781,867,1122,321,539,403,701,3036,365,1238,2776
ATP6AP2_6_1838,467,1019,1304,1221,879,1604,1965,1279,857,1061,698,162
ATP6V0A2_6_1839,5718,6328,8059,7250,8322,8577,7726,9162,7214,5283,7788
,6509
ATP6V0D1_6_1840,3280,2423,2839,3025,1386,4187,3160,4353,2841,3279,3062
,2021
ATP6V0D2_6_1841,1830,1328,1331,1933,1509,3445,1385,3044,1037,1594,2302
,2310
ATP6V0E1_6_1842,337,186,128,311,3,1,105,3,173,499,0,139
ATP6V1A_6_1843,2328,1286,2342,2235,1689,3107,2182,2356,2005,1242,3510,
2744
ATP6V1B1_6_1844,1642,1899,2105,2399,2763,519,2371,4069,1231,3367,2723,
3360
ATP6V1B2_6_1845,3239,2948,3688,3307,2986,3338,2391,3224,2445,4175,4232

,4716

ATP6V1C1_6_1846,0,0,0,0,0,0,0,1,0,0,0,0

ATP6V1D_6_1847,152,451,585,468,34,172,879,402,313,385,501,864

ATP6V1E2_6_1848,980,675,1093,1153,986,149,602,447,1096,1488,2425,2001

ATP6V1G1_6_1849,1854,1752,2315,2339,2200,1439,3801,1210,3009,2035,3727,1023

ATP7A_6_1850,1436,1214,1944,1029,3859,1766,984,1735,1316,893,4049,3025

ATP8A2_6_1851,714,839,950,819,150,0,570,0,302,709,1966,346

ATP8B1_6_1852,1699,1892,2366,1485,979,2398,1056,2326,2137,3644,1867,962

ATP8B4_6_1853,4008,3579,3388,3789,5180,5090,3833,3131,3618,3352,5268,2484

ATP9A_6_1854,11950,12304,14710,13741,13056,16427,15408,13857,12446,20933,15400,11555

ATP9B_6_1855,689,848,811,930,159,1067,1268,140,523,2356,971,30

ATPAF2_6_1856,713,779,1021,1145,2005,357,1077,1602,453,601,1848,979

FLVCR1_6_1857,1557,1308,1944,1577,2047,506,1563,867,1254,2996,1345,1099

RHBG_6_1858,293,418,373,769,224,414,868,174,363,11,259,21

RHCG_6_1859,569,495,486,525,974,485,548,597,363,454,153,70

SLC10A1_6_1860,3242,3793,4176,3619,3557,3941,3732,2913,2758,3258,4981,4827

SLC10A2_6_1861,193,373,625,424,324,1,460,129,239,560,374,440

SLC10A4_6_1862,2001,1399,1841,1707,1460,3360,1278,1667,1826,1530,1824,406

SLC10A5_6_1863,9170,9108,12072,11557,8084,12561,9824,8871,5394,9156,11507,11577

SLC10A6_6_1864,2975,2590,2780,3992,2696,2862,2431,3335,1966,4305,4584,2499

SLC11A1_6_1865,2266,2270,2493,2328,2325,2327,2665,2137,2562,3300,2619,4038

SLC12A2_6_1866,8430,7767,9508,9389,9020,7549,11013,9125,8093,10004,9961,9218

SLC12A7_6_1867,1420,1456,2105,1551,391,1846,1885,2524,1402,2987,1266,861

SLC12A9_6_1868,379,407,662,670,494,122,470,43,39,470,1713,109

SLC13A1_6_1869,13564,15037,16171,15202,14480,16136,17899,14821,13186,15670,19683,16595

SLC13A4_6_1870,2416,1836,2460,2124,1123,1322,1517,2364,2775,1415,4834,2154

SLC15A1_6_1871,3744,3215,3935,4389,2219,3733,4045,4597,2877,5594,4366,4693

SLC15A3_6_1872,906,558,1082,736,583,1221,255,959,379,150,1145,536

SLC15A4_6_1873,228,123,205,200,0,93,20,54,0,0,3,27

SLC16A10_6_1874,1286,1471,1586,1464,2284,619,3092,1798,762,1277,2084,2280

SLC16A11_6_1875,1435,1672,1493,1506,2118,1837,276,524,533,2765,1173,1027

SLC16A12_6_1876,1945,1631,1609,1565,2337,1544,2025,2254,1220,2677,1777,1511

SLC16A2_6_1877,1484,1211,1834,1920,1051,783,1006,842,983,525,2275,779
SLC16A5_6_1878,385,676,732,459,441,214,450,973,54,991,691,1145
SLC16A7_6_1879,2278,3182,2621,3406,3709,5029,2365,2217,2514,1945,2635,1851
SLC16A8_6_1880,1190,1229,1139,702,254,946,737,606,869,1183,305,561
SLC17A1_6_1881,2052,1884,2924,2715,1863,1425,2429,4145,2076,1908,3335,747
SLC17A4_6_1882,1073,1218,1405,1410,283,1125,1982,1523,666,1003,4056,1324
SLC17A5_6_1883,3900,2908,3638,3365,5276,2865,3473,3862,2694,4476,3759,1333
SLC17A6_6_1884,8335,7847,10228,10419,8564,12088,8439,8769,9260,11097,10838,11058
SLC17A7_6_1885,1217,986,1128,1236,593,1114,717,1015,968,164,681,205
SLC18A2_6_1886,6735,5882,7667,7437,7190,7906,6007,6743,4294,7000,7186,5631
SLC18A3_6_1887,1555,1510,1602,2246,2520,1419,2258,2377,778,1154,2465,3046
SLC19A2_6_1888,13156,12685,14272,14538,15276,16612,16748,14678,10437,16667,13730,16328
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SLC1A1_6_1890,1380,1266,2036,1915,1577,3324,1869,2212,2242,1487,1964,2604
SLC1A6_6_1891,3867,3691,4136,4473,4878,4034,5206,4919,3722,4958,7887,4612
SLC1A7_6_1892,5392,4841,5124,4682,3914,4894,4608,5702,4701,3851,5980,6856
SLC20A1_6_1893,667,694,670,921,479,762,113,981,892,609,824,661
SLC20A2_6_1894,1080,1301,1057,851,537,1429,456,2480,553,65,1469,768
SLC22A10_6_1895,2560,3207,3889,3509,2914,4160,2335,1511,2619,2290,6885,1944
SLC22A11_6_1896,178,314,286,281,504,665,139,241,697,253,3,153
SLC22A13_6_1897,1289,1244,1201,1209,1114,870,1456,293,541,878,1388,1082
SLC22A14_6_1898,9468,7405,11192,8290,9308,11363,12292,7800,8112,12393,13338,9714
SLC22A15_6_1899,2223,1680,2730,2394,2199,1641,1782,4243,2824,2455,1929,3445
SLC22A16_6_1900,2962,2952,3890,3335,1462,2819,2153,1906,1718,5938,3680,5165
SLC22A18AS_6_1901,561,259,604,997,1052,114,214,42,149,537,146,862
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SLC22A3_6_1903,4033,3917,4650,4080,2325,2816,3043,3229,2128,5727,7480,2974
SLC22A4_6_1904,2121,1228,2318,1731,2515,1387,1491,3426,1062,1348,1707,1916
SLC22A5_6_1905,2397,1823,2226,2210,1244,1857,2026,3028,1537,2477,2908,1474

SLC22A9_6_1906,1186,1388,2044,1255,1764,1332,2642,3714,525,3813,5023,1
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SLC24A6_6_1910,532,545,612,692,783,1126,102,398,102,2637,972,330
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SLC25A17_6_1915,527,889,705,663,159,371,163,174,553,344,879,644
SLC25A18_6_1916,4095,3902,4604,4247,5486,1248,2797,3243,2700,5358,5221
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SLC25A1_6_1917,1181,911,1025,940,798,2224,2287,505,818,1200,1388,602
SLC25A20_6_1918,1140,1539,1819,1276,653,1387,1245,2548,1197,575,2829,9
74
SLC25A28_6_1919,263,245,450,357,235,172,601,452,196,579,524,384
SLC25A2_6_1920,1605,2381,2179,2124,1993,641,2189,2520,966,2697,2827,39
26
SLC25A32_6_1921,6441,6648,6929,7070,4916,12672,6793,9545,8121,6560,109
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SLC25A37_6_1922,1527,1197,1772,1672,833,1006,4275,1544,2582,1502,1804,
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SLC25A43_6_1923,1693,1888,2044,2330,3264,2834,2383,2089,1614,2393,4309
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SLC25A44_6_1924,892,1240,884,618,1008,926,769,775,624,385,1337,586
SLC25A4_6_1925,1265,1403,1446,1700,3195,2723,2442,2544,1334,1429,1092,
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SLC25A5_6_1926,6858,7021,9676,8527,6761,9911,9837,9058,6900,9330,8245,
7788
SLC25A6_6_1927,892,488,474,681,208,44,605,4,1172,2672,192,1253
SLC26A10_6_1928,1311,1874,3052,1941,3817,2627,1377,3336,781,4622,1683,
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SLC26A2_6_1929,6403,4708,7078,6471,3956,3900,7707,9130,4845,7808,11077
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SLC26A3_6_1930,7428,6179,7939,7725,6184,7408,8066,6873,5983,7093,8620,
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SLC26A4_6_1931,2072,2251,2598,2687,5057,2620,2034,741,1804,2430,3358,2
603
SLC27A1_6_1932,228,320,270,459,858,1,152,794,225,856,504,169
SLC27A3_6_1933,249,1010,733,824,87,389,431,851,1128,48,752,2195
SLC27A4_6_1934,1831,824,1119,1225,817,906,2342,362,1079,472,949,1292
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SLC28A2_6_1936,2511,2235,2580,2995,2371,1593,2220,3038,2145,1918,4040,

607

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SLC2A12_6_1939,1055,1361,1578,1538,1087,806,927,1051,748,1035,1319,1093

SLC2A13_6_1940,5409,5809,5547,6099,3137,9449,4683,6688,3705,6870,5512,3613

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SLC2A8_6_1948,897,901,781,1111,1406,1222,725,736,1391,1647,676,856

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SLC30A9_6_1953,933,762,980,1188,2323,431,1019,1348,479,1171,1021,1677

SLC31A1_6_1954,345,185,188,582,1048,357,55,448,501,442,637,602

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SLC35D1_6_1963,1603,2368,1850,2120,3778,1992,2417,1414,1115,2001,3961,4253

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SLC35F3_6_1971,1906,2087,2961,2547,1681,3888,2694,1634,4159,2358,3266,3589
SLC35F4_6_1972,5395,5519,6238,6351,4318,5118,5655,6145,6085,4540,9092,6813
SLC35F5_6_1973,696,821,1501,858,0,1166,1015,683,243,1651,1045,777
SLC36A1_6_1974,488,596,586,807,410,1050,1466,1281,108,1176,1819,661
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SLC37A1_6_1977,1461,891,1697,1147,381,617,2100,1905,1230,2198,1220,2105
SLC38A2_6_1978,1273,1443,2020,1636,2373,1141,1400,2800,775,2481,1189,2125
SLC38A3_6_1979,793,1214,1237,1045,582,1098,904,1487,546,1406,596,830
SLC38A5_6_1980,3508,2704,3445,2510,2482,3564,3761,3626,3935,3497,3773,4102
SLC39A1_6_1981,1126,994,1074,1369,1629,1524,158,608,1148,953,1418,1057
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SLC41A1_6_1986,378,371,360,540,756,92,422,734,341,543,820,472
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SLC4A9_6_1993,1388,991,1064,1421,831,1870,2267,2913,691,1844,1645,882
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24
SLC5A8_6_2002,2572,1897,2074,2677,2671,3919,2728,2284,1224,1231,4567,2
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351
SLC6A16_6_2005,2017,2395,2633,2301,1294,1729,3027,3529,1334,3833,2727,
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SLC6A19_6_2006,1510,1674,1451,1689,1441,1947,1523,1884,698,2380,787,18
45
SLC6A1_6_2007,796,1039,773,1045,1534,625,1351,1486,322,648,206,1298
SLC6A3_6_2008,615,727,476,544,362,1904,283,981,484,154,1021,608
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SLC6A7_6_2010,7934,8928,9920,11044,13563,8928,13001,12419,8252,9265,12
831,9173
SLC7A10_6_2011,1470,2227,2373,2414,1782,3494,2392,1765,2579,1528,3284,
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SLC7A11_6_2012,1657,1920,1826,1333,1689,923,1100,1656,1781,927,1326,15
89
SLC7A13_6_2013,2486,2140,2462,2643,1742,3093,3398,3687,1412,2631,2156,
2068
SLC7A1_6_2014,1928,2361,2734,2151,2026,1827,3354,1806,1931,3098,2136,4
670
SLC7A4_6_2015,994,808,1103,1497,1004,679,2109,341,557,688,1324,1924
SLC7A5_6_2016,488,696,641,946,720,1682,1302,1399,398,598,758,446
SLC8A2_6_2017,1215,1138,1026,1169,93,1312,2226,1385,1064,2477,2669,797
SLC9A1_6_2018,586,557,661,663,800,935,515,182,815,484,994,1012
SLC9A2_6_2019,2043,1717,2329,1870,1482,1196,1127,2078,1052,2388,2148,2
161
SLC9A3_6_2020,401,355,139,476,0,0,2074,872,107,89,9,195
SLC9A3R1_6_2021,444,167,296,262,861,678,10,1498,360,97,166,622
SLC9A4_6_2022,6886,5980,9162,7130,6916,8145,8000,7685,9220,11137,10026
,7692
SLC9A5_6_2023,1761,1375,1707,1458,1888,1281,1804,1237,1821,2831,1847,3
165
SLC9A7_6_2024,1275,745,843,757,230,103,958,498,1233,1122,1961,146
SLC9A8_6_2025,2771,2993,3156,2971,3229,2225,2267,1516,3271,4451,3380,2
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SLC9A9_6_2026,4385,4744,4848,5703,3537,3314,4376,4211,3356,4519,4918,4
278
SLC01B1_6_2027,3199,3085,4429,3962,3802,3057,3562,4134,3681,3975,4854,
3433
SLC01B3_6_2028,4291,3664,3267,4054,4212,3991,5499,4659,4381,5052,4272,

5172

SLC02A1_6_2029,468,628,787,762,281,137,661,289,365,486,387,1177

SLC04A1_6_2030,271,529,483,297,358,529,1242,917,395,1,140,337

SLC04C1_6_2031,5529,5262,5829,6112,2628,4502,7787,7137,5325,6678,10167,8948

SLC06A1_6_2032,1999,2704,2373,3076,4828,947,2259,2506,901,3784,3005,3467

SV2A_6_2033,2996,3769,3797,3219,1751,3489,4062,4534,3014,2402,4043,4427

TAP1_6_2034,417,494,652,561,110,357,334,459,230,732,353,445

UCP1_6_2035,8299,8454,10935,9721,11247,10564,9584,9697,5965,7155,9483,10225

ABCA12_6_2036,4015,4913,4964,4166,3868,2622,5618,3355,3154,4471,4162,3465

ABCA2_6_2037,1709,2518,1492,1914,674,2203,2709,1568,1896,3544,2458,2486

ABCA5_6_2038,6470,7064,6614,7029,4896,5902,4359,6026,4983,4857,8148,3370

ABCB4_6_2039,14649,15942,17896,16461,14422,19976,21895,18624,14878,15955,20822,16108

ABCB9_6_2040,544,748,326,560,83,1720,956,261,77,1128,464,346

ABCC10_6_2041,620,716,742,601,501,724,67,564,105,2837,1121,187

ABCC11_6_2042,1524,1377,1591,1709,1854,2766,972,1861,1096,2155,1975,2652

ABCC1_6_2043,373,432,792,592,857,520,986,19,191,577,867,372

ABCC3_6_2044,1775,1706,2235,2407,3523,736,1504,1861,3004,2832,5772,1075

ABCC4_6_2045,269,384,637,489,15,0,1224,679,37,1790,832,239

ABCC5_6_2046,957,617,626,830,405,685,1036,807,84,1349,1935,394

ABCC9_6_2047,884,818,1041,1506,1248,346,348,1066,892,1862,1045,2000

ABCD3_6_2048,5208,4443,5240,5175,3905,8498,4277,4789,4957,6736,6862,4021

ABCE1_6_2049,9447,7563,9399,7826,6916,11901,17194,11595,5709,9939,13505,11089

ABCF1_6_2050,775,228,605,341,427,277,334,233,349,751,700,418

ABCF2_6_2051,2028,1580,2187,2549,2276,4514,2583,1843,1319,1549,3810,4884

ABCG1_6_2052,441,709,596,352,371,1024,578,48,283,799,61,259

ABCG4_6_2053,224,140,263,400,617,375,42,328,15,328,20,0

ANXA11_6_2054,4085,3881,3967,5304,5508,3498,5063,4660,5175,5746,7071,4882

ANXA13_6_2055,804,967,1085,1038,1395,636,1047,505,367,684,1295,791

ANXA2_6_2056,261,112,296,257,17,608,25,1979,172,450,13,271

ANXA6_6_2057,2324,2064,2267,2107,688,3126,1125,1675,1177,2051,2688,1839

ANXA7_6_2058,1632,1097,881,1858,1622,2658,457,1458,1221,1075,754,1528

ATP11A_6_2059,1582,1926,2490,2565,1836,1575,1761,3881,2471,1491,4034,2098

ATP11C_6_2060,1534,1946,2729,2255,1933,1745,2515,1398,1591,1791,1846,5777

ATP12A_6_2061,3803,2664,4537,5274,2825,4045,3348,4098,3885,4309,4826,3
213
ATP1A1_6_2062,10514,8153,10916,10841,8993,11431,9861,10123,7887,8904,1
5765,10785
ATP1B4_6_2063,566,358,374,806,831,741,341,963,412,252,2099,81
ATP2A1_6_2064,646,427,1141,1166,315,352,469,133,197,2723,729,615
ATP2A2_6_2065,7480,6326,8808,9121,4352,6043,8941,7776,6029,11881,11213
,10470
ATP2A3_6_2066,3988,3561,5337,5304,5366,7285,4933,5340,3889,3854,7964,3
375
ATP2B1_6_2067,755,531,1443,864,348,628,548,493,259,961,1374,459
ATP2B3_6_2068,520,604,724,630,1685,778,1113,79,709,212,1138,881
ATP2B4_6_2069,851,501,651,1030,23,583,1086,306,91,1849,289,1690
ATP2C1_6_2070,3052,3046,4158,5169,2373,3122,3036,7428,3107,4502,6191,5
904
ATP5A1_6_2071,1635,1404,2465,1727,1982,2409,2523,4072,1902,683,2598,23
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ATP5C1_6_2072,4856,5228,6422,5676,5279,5766,7085,5410,4212,7637,6698,6
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ATP5D_6_2073,1072,714,1211,990,2096,185,694,829,339,1954,680,76
ATP5E_6_2074,1022,991,936,730,132,1688,175,1663,647,1542,96,1019
ATP5G1_6_2075,516,688,610,659,732,309,617,466,931,807,1105,884
ATP5G2_6_2076,1088,887,1730,1496,636,2085,2583,1686,1135,1467,1853,103
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ATP5G3_6_2077,1432,1521,2310,2210,2378,1137,1798,1562,1342,3901,2923,2
889
ATP5H_6_2078,3982,3024,4261,3749,3506,4595,3526,4812,3154,3365,4110,33
12
ATP5J_6_2079,2371,2077,2426,1915,1245,3951,2053,2080,1209,3458,2354,26
34
ATP6V0A1_6_2080,8907,8178,9793,8846,13146,15618,12334,10024,9147,10882
,13908,10027
ATP6V0A4_6_2081,5220,5308,6117,5789,4202,7143,6671,7538,4130,5499,7246
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ATP6V0B_6_2082,721,918,967,936,863,640,481,125,445,292,976,428
ATP6V0C_6_2083,1497,2296,2043,2428,1034,1679,4023,2171,996,727,4116,15
96
ATP6V1C2_6_2084,857,1081,1117,895,853,859,561,1271,140,1198,1122,731
ATP6V1E1_6_2085,1322,1501,1482,1495,1552,1795,2105,1699,811,2053,1895,
1576
ATP6V1F_6_2086,169,82,39,187,0,25,0,0,31,115,61,0
ATP6V1G2_6_2087,4,6,3,8,7,6,0,4,4,5,12,6
ATP6V1H_6_2088,2315,3086,2518,2641,1756,647,2069,2783,922,2539,4032,46
97
ATP7B_6_2089,968,1303,1017,1153,1044,2866,643,1892,697,841,960,1234
ATP8A1_6_2090,1905,1913,2616,2509,4097,1686,2139,5642,1888,3528,3039,7
21
ATP8B2_6_2091,7102,9081,9947,9130,8953,12576,8441,6739,7761,12053,1038
8,10984
ATP8B3_6_2092,355,684,718,678,445,892,326,494,127,1069,1013,71

ATPAF1_6_2093,18177,15469,18615,18499,12691,22102,15757,19715,14572,13
177,17017,20242
GC_6_2094,6228,5820,7476,7787,6732,4267,8723,8285,7280,8543,9654,7084
SERINC5_6_2095,365,638,283,607,415,1513,1077,523,174,233,998,452
SLC10A3_6_2096,399,485,409,378,932,16,458,1,40,106,725,1
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SLC12A6_6_2102,1375,840,1101,1316,163,1741,1417,1040,692,591,937,799
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SLC15A2_6_2109,1762,998,1644,1908,1282,1624,1688,1314,1009,1023,3017,1
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SLC16A6_6_2113,3279,2925,3850,2911,2233,1761,2780,4773,2438,2157,5082,
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SLC17A3_6_2114,231,343,249,196,13,5,179,218,659,116,265,1
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SLC18A1_6_2116,1960,1732,2230,3116,2796,3045,3775,1480,2481,1784,3514,
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SLC19A1_6_2117,687,683,945,1003,956,140,1721,817,1658,899,914,765
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87
SLC1A3_6_2119,6443,5806,5864,5950,3860,4159,6769,6676,3167,6735,7418,8
217
SLC1A4_6_2120,1038,1187,1720,1206,95,448,1257,619,941,1872,1378,538
SLC1A5_6_2121,272,102,243,91,443,542,8,36,0,142,50,28
SLC22A12_6_2122,1661,1832,2362,2315,3306,820,4049,2182,1633,1808,1998,
1841
SLC22A17_6_2123,175,340,494,148,211,451,182,307,366,386,667,244
SLC22A18_6_2124,753,730,1541,1455,980,466,222,557,1356,585,1633,733
SLC22A1_6_2125,3917,3916,4712,4981,2867,5525,6133,5750,3445,3106,6148,

5158

SLC22A23_6_2126,899,285,843,687,146,713,339,385,1044,429,1317,1493
SLC22A6_6_2127,536,540,588,701,1503,774,264,724,246,240,2,149
SLC22A7_6_2128,321,333,293,410,1205,90,148,40,170,676,415,277
SLC22A8_6_2129,1114,537,1207,1338,2226,497,655,2601,362,303,474,1688
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SLC25A14_6_2135,13033,11614,15871,15209,13074,16949,19380,13009,13700,
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SLC25A21_6_2137,139,201,236,300,1115,0,1371,0,0,0,2,1
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SLC25A26_6_2139,7049,7978,8765,9188,10344,6611,6777,9471,5514,10441,90
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SLC25A27_6_2140,5624,5655,5755,5601,5703,11663,6392,7978,7743,8187,469
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SLC27A6_6_2150,72,63,30,92,2,163,0,0,5,0,31,0
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SLC30A8_6_2162,1490,1494,1091,1512,765,3032,1263,582,2106,551,1093,157
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SLC33A1_6_2163,1619,1286,1919,1717,1372,3193,3122,1969,1764,837,2286,1
134
SLC34A1_6_2164,496,746,605,709,564,1206,662,920,16,583,99,120
SLC34A2_6_2165,253,475,194,416,5,219,226,266,1067,262,811,184
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3856
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1748
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SLC37A3_6_2175,791,544,926,1082,28,2459,789,352,68,1519,2297,1119
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3739
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3899
SLC3A2_6_2191,752,995,367,860,278,132,492,346,375,1122,1561,1563
SLC43A1_6_2192,376,327,236,585,1403,373,11,925,302,610,423,853
SLC44A3_6_2193,4048,3712,4496,3479,2512,3311,4147,2978,4012,3533,4085,

3258

SLC4A10_6_2194,13803,13240,15745,14897,13400,15629,19106,17107,9358,17199,18074,18390

SLC4A11_6_2195,700,1134,862,689,137,983,464,1367,1332,1000,1385,375

SLC4A2_6_2196,1627,1249,1822,1669,754,4136,2102,1452,981,1528,3290,1670

SLC4A3_6_2197,879,1110,1122,1051,585,726,1248,2114,1891,2726,909,481

SLC4A4_6_2198,6817,6454,8705,8145,8829,8462,8127,6100,8941,5344,10383,8454

SLC4A8_6_2199,1930,1786,1987,1762,687,1583,1563,1719,745,1366,2592,2698

SLC5A10_6_2200,824,1091,700,561,0,1,341,1150,668,653,346,1218

SLC5A9_6_2201,440,377,359,305,1560,767,1091,330,368,212,347,1240

SLC6A12_6_2202,3598,3246,4937,4435,4351,5592,5995,4086,3842,4319,6689,5369

SLC6A13_6_2203,5849,4893,6873,6514,5496,4398,8479,5942,4877,5090,10678,5120

SLC6A15_6_2204,4667,4632,5091,6115,2993,4616,4000,5971,3915,7065,7234,3633

SLC6A2_6_2205,714,882,820,502,78,188,605,1256,1848,1108,251,719

SLC6A6_6_2206,3444,3702,2966,3116,3874,4605,1877,3728,3905,4799,3587,4179

SLC6A8_6_2207,2389,2130,3597,2794,2704,1785,5027,1573,3304,3054,3552,2752

SLC6A9_6_2208,1938,1867,2082,1871,2104,1525,3760,2791,1702,3460,3547,2785

SLC7A2_6_2209,3555,3621,3477,3873,2147,4342,3762,6018,3799,4040,5140,3535

SLC7A3_6_2210,1253,1374,2461,1638,2026,909,1134,3189,2191,2561,2280,1357

SLC7A6_6_2211,1499,1152,1544,1454,870,1656,708,1750,1116,1222,1996,2777

SLC7A7_6_2212,5304,5055,6234,5673,2451,4537,8027,5117,4126,6158,5728,4640

SLC7A8_6_2213,1513,1902,1163,2460,3805,2100,2893,1016,1840,599,1982,2898

SLC7A9_6_2214,2263,1902,2777,3296,1974,1526,2279,2520,1781,1973,6880,610

SLC8A1_6_2215,5855,5219,6751,5652,4258,9740,3257,6435,6280,5080,5561,4244

SLC8A3_6_2216,488,267,463,252,639,437,285,1543,393,264,168,398

SLC9A3R2_6_2217,1115,1287,932,1087,1425,2110,904,560,1069,921,2117,1444

SLC9A6_6_2218,3780,3082,3871,3271,4125,6360,2579,3785,5720,4805,5712,4573

SLC01A2_6_2219,2346,1904,3303,2380,2152,5878,1634,2344,2225,1044,3186,2063

SLC01C1_6_2220,3539,3264,3604,3825,1147,3146,4221,3746,1146,3416,5578,3047

SLC02B1_6_2221,2851,3378,3722,3619,4890,3817,4755,5385,5039,4138,5743,

2899

SLC03A1_6_2222,854,1307,1277,1533,742,952,1305,3301,669,709,1868,122

SLC05A1_6_2223,1858,1453,2662,2899,3169,1621,1625,2874,1813,1365,3417,2418

ABCB5_6_2224,2717,2755,3803,2174,2928,4057,2838,3797,3190,2244,4010,2220

ABCC6_6_2225,4414,5075,5607,5124,3604,5646,8915,2907,5309,4651,4439,4652

ATP1A4_6_2226,3916,3250,4233,4608,4682,5866,4669,3287,2293,6322,4655,3691

ATP5J2_6_2227,2878,3524,4050,4055,2798,3601,2927,5619,2193,3844,4544,3643

ATP5S_6_2228,8468,8465,10150,9856,6880,11846,6850,5243,6743,7979,11007,8325

ATP6V1G3_6_2229,8506,8224,10291,10490,6984,7698,11607,9781,6588,7783,10721,13045

ATPIF1_6_2230,4627,3950,4774,5006,5421,2999,2918,4507,2256,5184,6452,3247

SLC10A7_6_2231,2306,3233,3356,2611,1551,2429,3790,2430,2293,3654,3318,3724

SLC28A1_6_2232,555,557,577,492,227,1721,273,348,251,209,712,342

SLC30A5_6_2233,5699,4007,5795,5422,2003,8596,7082,8547,5711,4175,4382,5236

SLC39A3_6_2234,935,870,1064,958,939,1357,398,2368,1721,1264,2169,741

ABCA10_6_2235,7419,6399,9368,8416,8574,8054,8219,7423,8961,9506,10453,6777

ABCA13_6_2236,1580,1842,1919,2510,1256,1118,2821,1767,2102,1717,3266,2486

ABCA1_6_2237,3839,3459,4757,4869,3570,3625,4484,4775,4627,4397,7274,4902

ABCA3_6_2238,526,798,1042,452,1142,132,565,729,1422,134,128,1455

ABCA4_6_2239,779,730,964,1141,863,1841,353,863,1454,637,1107,602

ABCA6_6_2240,10963,11126,12101,11775,12300,13586,12191,14154,13102,15831,11277,11096

ABCA7_6_2241,202,298,235,889,23,1213,1015,1431,430,967,320,221

ABCA8_6_2242,1857,1716,2172,1482,990,3746,2572,709,449,2826,2890,833

ABCA9_6_2243,1433,822,1092,1291,739,1463,1437,1015,1140,1583,2584,258

ABCB10_6_2244,812,975,786,1018,769,1096,952,2354,555,593,343,1364

ABCB11_6_2245,2054,1333,1758,1977,1125,856,2488,2978,3318,115,2691,926

ABCB1_6_2246,3719,2977,4046,3070,3168,3074,4070,6479,1820,3094,7398,3650

ABCB6_6_2247,3885,3668,5109,3357,1589,3726,4894,2626,2229,4311,5756,2898

ABCB7_6_2248,1412,1028,1801,1633,469,2095,1591,2502,1232,1633,1982,1364

ABCB8_6_2249,815,1089,1128,1263,1643,861,1580,1622,176,341,1374,1306

ABCC12_6_2250,1789,1115,1344,1822,3487,1227,1112,2334,1432,1477,727,1852

ABCC2_6_2251,698,626,702,392,612,266,440,232,1053,56,1475,270

ABCC8_6_2252,3722,4130,3600,3682,4688,3992,2540,5150,2733,3869,6399,50

88

ABCD1_6_2253,2775,2724,2776,3041,572,4584,2660,4033,2882,5136,1781,213
2

ABCD2_6_2254,1855,1637,2039,2121,1796,2514,1158,1073,1454,3238,2167,17
46

ABCD4_6_2255,1729,1842,1999,2109,1204,2765,2350,3771,737,2723,2598,136
9

ABCF3_6_2256,2141,1419,2092,2095,1057,2628,2497,1490,808,3462,1952,277
6

ABCG2_6_2257,1871,1751,2669,1753,265,1001,1402,2433,3104,1204,3609,823

ABCG5_6_2258,1236,1142,1432,1299,591,1161,816,1934,870,1354,498,1192

ABCG8_6_2259,856,645,1227,933,1597,699,7,1640,1035,93,1441,83

ANXA10_6_2260,427,651,711,460,640,519,105,19,223,1510,253,1035

ANXA1_6_2261,5922,4611,5577,5345,6146,2798,6200,5866,4596,6929,6170,59
11

ANXA3_6_2262,3475,3465,3500,3135,2567,5378,6994,6278,2792,2424,3720,17
31

ANXA4_6_2263,2186,1841,2755,2621,1555,5976,1782,2432,1268,2772,1656,94
8

ANXA5_6_2264,869,516,997,693,539,58,1858,637,403,1675,1156,628

ANXA8_6_2265,9313,8420,11496,10623,6756,10184,10040,11013,7031,8055,11
365,10724

ANXA9_6_2266,1246,907,816,1055,1644,767,952,595,1329,328,2521,1110

ATP10A_6_2267,498,263,738,361,1043,264,852,1141,306,549,185,163

ATP10B_6_2268,1737,1390,1850,1651,2972,1152,1624,3033,1653,486,4048,12
93

ATP10D_6_2269,369,446,745,747,391,866,527,1384,727,672,2045,342

ATP11B_6_2270,9356,7934,9818,8416,9679,9149,8002,6571,8333,5853,12252,
9336

ATP1A2_6_2271,732,1153,754,854,44,2122,982,1116,854,1002,1286,153

ATP1A3_6_2272,3558,4109,5536,4083,4136,3876,5107,2383,5293,5610,6061,4
446

ATP1B1_6_2273,644,482,666,810,307,417,312,544,219,1366,1298,1314

ATP1B2_6_2274,490,815,749,857,579,623,130,518,301,253,32,262

ATP1B3_6_2275,742,528,1143,908,90,754,682,3313,1063,1794,1132,912

ATP4A_6_2276,0,14,0,0,0,57,0,0,0,0,0,0

ATP4B_6_2277,680,672,886,1085,798,124,1317,1125,461,359,1578,546

ATP5B_6_2278,7731,6884,9949,9289,9125,6400,8143,9754,6843,4577,10455,1
1145

ATP5F1_6_2279,37,107,149,116,0,512,0,0,0,0,0,0

ATP5I_6_2280,622,513,1260,1071,1859,1843,2254,436,1323,1621,671,967

ATP5L2_6_2281,2839,2440,2631,2486,4768,3259,2379,2712,2533,3752,2734,3
528

ATP5L_6_2282,11653,10789,14128,11949,14147,14147,15808,17200,7862,1348
0,10376,9692

ATP50_6_2283,1638,1541,1635,1477,2270,1090,2242,2870,276,2538,3065,114
7

ATP6AP1_6_2284,597,755,953,424,631,358,226,639,684,1174,450,1133

ATP6AP2_6_2285,3131,3133,3040,3095,1747,2599,2194,2684,1890,2026,4106,
3300

ATP6V0A2_6_2286,743,661,1510,1143,1723,546,1697,1830,295,477,696,1044
ATP6V0D1_6_2287,487,479,883,852,540,855,209,280,823,2587,1450,81
ATP6V0D2_6_2288,2116,1654,1909,1925,1334,1205,2760,2231,1884,1274,1871
,2190
ATP6V0E1_6_2289,6263,4332,6777,5575,7878,5015,6786,5803,4322,5057,8460
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ATP6V1A_6_2290,1287,1694,1339,1405,1259,1584,591,975,2455,1021,1620,64
3
ATP6V1B1_6_2291,752,803,903,906,1494,1463,1875,772,357,806,356,926
ATP6V1B2_6_2292,4350,3469,4686,4826,2672,5033,5168,7243,5165,3284,6364
,5286
ATP6V1C1_6_2293,4178,3468,3780,5713,4123,5316,6278,3360,3951,3980,4333
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ATP6V1D_6_2294,1153,1378,1571,1432,2133,850,618,1644,3414,4465,1985,32
38
ATP6V1E2_6_2295,4711,4052,4137,4100,4378,4841,4880,5523,3511,4587,7325
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ATP6V1G1_6_2296,1765,2071,2102,1692,2624,1130,3498,2182,1017,577,2451,
1214
ATP7A_6_2297,2947,2679,3384,3156,2500,1541,4548,3723,1000,3694,2933,39
43
ATP8A2_6_2298,5172,3848,5955,4954,3747,5470,3754,5983,3045,3711,8218,7
154
ATP8B1_6_2299,970,416,819,1168,533,529,2049,661,1752,971,2035,877
ATP8B4_6_2300,9186,8064,10246,11196,9292,14289,12557,10481,9560,9573,1
2892,9140
ATP9A_6_2301,1516,1764,2054,2111,2094,1917,1447,854,817,1025,2091,1049
ATP9B_6_2302,3567,2898,3709,4259,4103,5421,5223,4279,4227,2155,4230,53
10
ATPAF2_6_2303,3753,3002,3735,4129,3194,5463,4899,4626,2532,6488,3896,3
237
FLVCR1_6_2304,185,95,256,205,0,98,1,2002,227,55,57,383
RHBG_6_2305,492,499,579,485,1162,320,356,131,428,206,342,262
RHCG_6_2306,1914,1689,2292,1914,1575,3055,3117,2323,1418,2391,3246,198
1
SLC10A1_6_2307,523,296,598,426,72,877,256,466,194,98,1384,1187
SLC10A2_6_2308,1210,876,1420,920,822,675,1283,769,1272,1708,1629,1117
SLC10A4_6_2309,3468,2603,4307,4676,3121,6151,5192,3763,3028,2501,3770,
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SLC10A5_6_2310,3137,2897,2930,3065,1016,1636,2391,5711,1356,3024,4722,
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SLC10A6_6_2311,242,497,484,541,7,1039,979,609,676,210,439,433
SLC11A1_6_2312,831,835,1405,1334,70,1663,1318,1421,1908,1801,1844,520
SLC12A2_6_2313,1651,1080,1381,944,1473,1497,1134,1496,528,1008,1983,21
55
SLC12A7_6_2314,787,474,561,648,447,440,709,1362,510,1166,1206,442
SLC12A9_6_2315,1336,1007,1172,1080,738,1063,587,906,553,1099,1143,838
SLC13A1_6_2316,13695,13185,15700,14627,14439,14464,12336,13549,11992,1
7157,19793,18050
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3662
SLC15A1_6_2318,2789,3375,3997,3727,4931,4508,2481,3152,3437,5719,4550,3995
SLC15A3_6_2319,11215,9588,11388,11147,8815,12502,11409,9936,8936,11114,14384,10225
SLC15A4_6_2320,2251,2569,3551,2702,2218,4424,4544,5070,1704,3165,4093,3304
SLC16A10_6_2321,5079,4349,5981,6165,6585,5616,5358,4119,5187,7624,10147,6147
SLC16A11_6_2322,859,413,761,708,679,1308,212,555,1367,259,933,201
SLC16A12_6_2323,2782,2352,2701,2117,3312,4550,2959,1858,1252,1693,3085,2685
SLC16A2_6_2324,1458,1260,1184,878,842,1751,1246,1704,452,987,482,1248
SLC16A5_6_2325,1169,1400,1253,1193,1286,2142,1229,1824,1206,1013,2667,278
SLC16A7_6_2326,4665,5327,5436,4562,4183,6706,6175,6640,4674,6323,6854,4388
SLC16A8_6_2327,789,1023,956,545,994,440,806,507,929,53,2029,1086
SLC17A1_6_2328,1461,1348,1824,1032,524,466,1988,1512,1677,1753,3612,2727
SLC17A4_6_2329,1199,670,1196,1657,67,1038,3772,958,731,2962,1192,1927
SLC17A5_6_2330,25713,25630,31074,31252,26057,29192,29456,27269,29164,38380,39628,36881
SLC17A6_6_2331,1573,1377,2151,1328,3574,2079,1330,1613,912,1925,2485,672
SLC17A7_6_2332,1189,652,827,656,624,750,502,1400,247,1053,1269,248
SLC18A2_6_2333,4119,4174,5554,5695,2191,4402,4490,3628,4148,6330,6844,2903
SLC18A3_6_2334,154,191,140,344,1417,1571,106,1,111,125,171,36
SLC19A2_6_2335,10187,10949,11188,10607,5752,16304,10579,12352,8560,9719,11497,8649
SLC19A3_6_2336,626,432,659,558,137,1913,86,113,1178,535,99,363
SLC1A1_6_2337,559,415,1049,1040,805,1682,50,1237,345,161,1551,710
SLC1A6_6_2338,1272,646,1099,976,2207,2739,1634,842,202,951,1624,470
SLC1A7_6_2339,3618,3342,3463,3953,4734,3894,5035,4205,2820,4874,8089,3119
SLC20A1_6_2340,4654,4533,5442,4699,1038,9517,5153,4658,3674,7574,7546,3889
SLC20A2_6_2341,2344,3189,2774,3084,1505,3825,2017,4862,2028,3896,2885,1268
SLC22A10_6_2342,2128,2461,2717,2155,2861,3615,2710,2968,1894,1929,2224,3673
SLC22A11_6_2343,414,358,375,337,415,11,13,25,17,202,1037,402
SLC22A13_6_2344,582,508,863,247,78,419,869,1091,68,208,498,1247
SLC22A14_6_2345,1157,1100,1293,1102,605,1732,2274,349,880,572,1612,1099
SLC22A15_6_2346,776,364,524,728,1004,679,230,1389,9,2240,921,1113
SLC22A16_6_2347,1025,983,1017,1308,575,935,779,514,1652,1004,1270,567
SLC22A18AS_6_2348,223,509,659,318,918,1109,55,181,217,28,692,163
SLC22A2_6_2349,7386,5858,7184,7296,7588,4866,9017,6776,5482,5576,9160,

4524

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SLC22A9_6_2353,891,592,1055,790,372,875,1140,510,128,724,1617,338

SLC24A1_6_2354,1667,1444,1743,1534,1758,1369,1527,969,1427,1721,2679,851

SLC24A3_6_2355,567,290,311,475,3,800,2166,41,737,1800,784,33

SLC24A5_6_2356,14189,14337,16302,15433,14402,16137,20158,19195,12757,13661,18827,19143

SLC24A6_6_2357,2662,2814,3100,3940,972,4246,4700,2005,2265,3673,3828,1905

SLC25A10_6_2358,342,48,142,97,55,470,18,0,319,166,173,75

SLC25A12_6_2359,8348,7699,9593,9724,8180,9563,9081,9544,7049,9783,10124,12355

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SLC25A1_6_2364,1647,1793,1408,1094,192,968,1868,1332,571,1760,1773,1807

SLC25A20_6_2365,810,1179,1101,1035,529,988,1513,1647,516,1416,1900,1937

SLC25A28_6_2366,901,637,1310,365,1299,174,1127,1541,446,873,1597,2111

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SLC25A6_6_2374,1316,1269,1401,1268,1313,422,724,554,837,819,1990,2525

SLC26A10_6_2375,897,753,900,828,661,1501,1691,379,53,1682,544,2101

SLC26A2_6_2376,2420,1904,1649,1695,328,834,397,1153,647,2979,2350,2153

SLC26A3_6_2377,1880,1822,2699,3501,2807,3066,1962,2361,2632,2023,4440,1912

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SLC27A3_6_2380,479,743,1000,804,2989,2258,364,2022,732,1777,1888,528
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SLC27A5_6_2382,926,929,940,1015,599,2147,633,2546,851,3196,1334,596
SLC28A2_6_2383,3061,3196,3838,3983,5208,4982,4129,4436,3135,3219,7476,
7053
SLC29A2_6_2384,495,313,477,690,183,300,146,232,260,464,1374,525
SLC2A10_6_2385,497,485,799,593,237,610,83,780,786,490,228,569
SLC2A12_6_2386,597,689,1228,1263,1557,2106,1084,172,479,1058,147,1530
SLC2A13_6_2387,2803,1721,2658,3282,2456,2446,4810,3565,1987,2490,3155,
2251
SLC2A14_6_2388,3259,2814,4246,3892,2335,2381,2730,4220,2949,3658,6947,
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SLC2A1_6_2389,3252,3589,4371,3709,3782,3810,4752,3309,3661,2769,5010,4
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SLC2A3_6_2391,5549,5599,7807,7224,6827,9159,6029,7462,4346,7611,9771,6
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405
SLC30A10_6_2396,3442,3331,3413,3633,5563,3770,4812,4826,2347,3497,4615
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SLC30A1_6_2397,318,243,391,415,18,21,420,703,226,12,541,76
SLC30A3_6_2398,4514,3544,4065,4026,3115,5075,6406,3441,3270,5985,5970,
3766
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SLC31A2_6_2402,2993,2414,3095,3301,3067,4575,3262,7269,2226,1735,4429,
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11434,9794
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3465
SLC35A5_6_2406,14259,11358,12436,14108,11844,12479,12169,9448,14884,13
995,16543,11639
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2273
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SLC35B4_6_2409,770,495,1282,1059,3038,258,832,557,346,1610,407,519
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1468
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SLC35E3_6_2414,444,891,940,1092,400,732,348,1401,269,422,1161,1554
SLC35E4_6_2415,403,296,496,277,8,1298,19,608,259,292,894,519
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298
SLC38A2_6_2425,983,988,1469,1391,988,2288,2096,1311,1528,1366,1439,115
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4916
SLC39A9_6_2430,636,1701,1590,1721,2258,123,2469,1894,1110,1188,1167,43
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184
SLC41A1_6_2433,1844,2557,2203,2512,1467,2220,1454,4246,3689,1754,3374,
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SLC46A2_6_2436,505,207,536,543,620,935,630,452,302,11,152,84
SLC4A1AP_6_2437,1193,1456,1723,1301,2252,467,1884,2693,554,965,2959,11
45
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SLC4A7_6_2439,989,854,1265,1504,1198,870,1000,1245,996,4088,682,572
SLC4A9_6_2440,2072,1198,2045,2818,3260,2803,1249,2599,2500,2581,3672,1
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SLC5A11_6_2441,2497,3320,3496,2812,1900,4544,3803,3724,2241,3402,3680,
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420
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SLC5A7_6_2448,1730,1554,2465,2279,1189,1497,1128,1489,1507,1556,3766,1
197
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32
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SLC6A3_6_2455,820,672,686,583,703,58,703,420,439,596,383,486
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SLC7A11_6_2459,578,794,1124,1259,212,1966,1840,1626,610,1484,926,1238
SLC7A13_6_2460,3652,3764,3927,3491,3555,4790,4120,5379,2634,4048,3466,
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SLC7A1_6_2461,4358,4195,5165,4372,4876,4786,3903,5968,5018,2534,5157,6
200
SLC7A4_6_2462,712,666,619,1065,963,1409,622,1028,448,202,658,1045
SLC7A5_6_2463,773,487,478,1056,39,1143,783,81,1356,440,664,1668
SLC8A2_6_2464,110,321,355,261,66,529,686,14,260,433,1748,935
SLC9A1_6_2465,6923,6250,8298,7494,4237,9532,9332,5741,7852,6348,7293,5
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SLC9A2_6_2466,6051,5038,7104,7993,5737,5242,7660,10905,4109,4767,8755,
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SLC9A3R1_6_2468,2152,1633,1962,2363,1916,1698,3788,2967,4272,2536,3355
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SLC9A7_6_2471,946,1137,2013,1332,545,552,1406,1041,1729,102,1759,273
SLC9A8_6_2472,5630,6075,6696,7184,7130,11950,7663,4291,6014,3564,8202,
10213
SLC9A9_6_2473,242,275,537,520,128,369,148,252,1296,221,681,858
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SLC01B3_6_2475,4081,5639,5669,5816,2597,4827,2959,3761,5370,3678,5475,
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SLC02A1_6_2476,1447,1714,2031,1361,1064,2337,2031,3507,1891,1882,3548,
938
SLC04A1_6_2477,448,937,1213,761,874,700,862,835,668,1576,924,1361
SLC04C1_6_2478,933,1158,1648,1285,2008,623,1774,2066,1750,2286,2080,21

69

SLC06A1_6_2479,2986,3735,4165,3718,3756,5952,2807,5090,2404,6159,4913,2988

SV2A_6_2480,2389,1890,2124,2770,1871,2191,3298,2804,2223,568,3934,3430

TAP1_6_2481,2280,2378,3636,3006,1943,1771,2951,2852,1549,1639,2751,3116

UCP1_6_2482,8674,7672,8990,7894,9992,7991,8342,8675,6653,10764,8876,10331

ABCA12_6_2483,5398,5008,5779,5077,7067,6086,6060,6152,4711,5952,6001,7188

ABCA2_6_2484,1574,2094,1326,1599,677,1865,3320,1576,1170,3547,2467,2486

ABCA5_6_2485,2877,3109,3709,4173,5384,5214,3377,3176,4009,3941,2987,2220

ABCB4_6_2486,4412,4737,3677,3986,4124,3665,5535,2985,4614,7762,5482,4402

ABCB9_6_2487,727,843,1363,1439,760,360,704,4391,458,912,681,3122

ABCC10_6_2488,1851,2029,1967,2540,2732,1890,1841,1147,495,560,3063,2208

ABCC11_6_2489,226,251,199,334,547,10,380,48,712,182,85,71

ABCC1_6_2490,2242,1337,2234,2191,1753,3938,1665,199,2200,2188,1883,2147

ABCC3_6_2491,1440,991,1391,1258,1612,1061,1002,1411,1123,941,2105,1429

ABCC4_6_2492,8173,8130,9383,8494,5581,9965,9378,8939,6896,10030,7263,10003

ABCC5_6_2493,617,475,535,847,538,179,842,779,1943,898,788,1303

ABCC9_6_2494,996,1093,1184,1135,1550,1042,1696,1359,907,1289,1212,975

ABCD3_6_2495,3029,3204,3307,3570,2176,7128,4841,4766,2363,3106,4439,2129

ABCE1_6_2496,1038,1668,1737,1430,2392,2961,2664,2155,1982,2541,1856,1905

ABCF1_6_2497,1197,480,982,1376,1220,1673,865,136,877,1099,1113,696

ABCF2_6_2498,893,1250,793,1138,1222,1365,1003,736,146,973,1218,1157

ABCG1_6_2499,2885,3279,2976,2091,1836,3961,1885,3626,1463,2998,2257,1092

ABCG4_6_2500,405,1079,942,1260,920,1054,1408,1421,1278,495,1406,1171

ANXA11_6_2501,4753,4747,5808,4285,8183,6884,3004,3527,3455,4221,6979,4107

ANXA13_6_2502,1069,1097,1626,1476,1156,1349,3073,411,844,1864,2247,1241

ANXA2_6_2503,680,613,553,832,413,262,70,854,1008,1017,575,399

ANXA6_6_2504,612,365,624,600,546,211,98,247,820,81,893,181

ANXA7_6_2505,1012,1337,1354,1270,1018,1830,542,837,1726,1213,1788,1967

ATP11A_6_2506,250,276,164,233,907,5,0,220,69,0,3,481

ATP11C_6_2507,1576,1544,2165,1813,1977,1638,2265,1135,1336,311,2182,1360

ATP12A_6_2508,4006,3216,4209,3763,5559,3798,3749,6609,4402,1755,3395,4494

ATP1A1_6_2509,5253,4437,5980,5252,5919,5852,5590,6062,4266,7343,8714,5239

ATP1B4_6_2510,12844,13502,15286,15603,11743,16300,12715,16385,11404,12060,21080,17061
ATP2A1_6_2511,778,601,888,766,83,988,567,605,734,635,1957,488
ATP2A2_6_2512,3400,2211,4011,4084,3339,3545,3278,5828,2861,2593,4170,2129
ATP2A3_6_2513,2782,2886,3618,3596,2209,4680,3614,3676,1852,2455,3195,2635
ATP2B1_6_2514,1919,1395,1539,2337,1898,1160,1041,1768,1379,2464,2843,953
ATP2B3_6_2515,2168,1953,1593,1306,2029,2126,231,1664,1276,2169,2763,1046
ATP2B4_6_2516,2109,1910,2385,2324,3829,3683,1354,2032,2169,1000,2636,2593
ATP2C1_6_2517,6409,6313,6250,7144,7099,8052,10048,7773,7475,7098,9394,7093
ATP5A1_6_2518,4398,3694,4308,5135,3543,4162,5521,4080,4953,3197,4944,8512
ATP5C1_6_2519,1102,1204,1310,954,1006,1482,1190,1272,1468,1595,1340,1582
ATP5D_6_2520,6605,6521,6552,6326,6972,6397,5873,6778,5171,5938,7231,6545
ATP5E_6_2521,834,723,808,1188,831,993,265,168,1813,1153,1946,1231
ATP5G1_6_2522,1897,1981,2371,2679,2990,535,3386,2686,1850,4285,3761,1523
ATP5G2_6_2523,1238,623,1054,1203,789,1122,1180,367,743,1306,3251,1304
ATP5G3_6_2524,1008,1015,1811,1496,987,2202,1280,1620,658,1094,1597,1276
ATP5H_6_2525,3136,3070,3067,2503,3475,1958,1720,2996,1928,1962,3440,1141
ATP5J_6_2526,1921,1622,2527,1735,2126,2498,1691,2143,968,2548,3150,2262
ATP6V0A1_6_2527,862,785,1099,1154,1911,1366,2068,2280,1352,329,2258,462
ATP6V0A4_6_2528,2875,3166,3153,3360,3709,3418,3169,3314,2455,3353,1873,2956
ATP6V0B_6_2529,2402,2220,2067,2372,949,2168,2829,2941,1114,3014,2726,1355
ATP6V0C_6_2530,237,259,477,292,54,207,197,1017,244,0,350,451
ATP6V1C2_6_2531,1331,1702,2321,2302,3173,1107,3707,2595,2165,2386,2865,3418
ATP6V1E1_6_2532,2125,2344,2584,2350,2216,2410,2966,1754,2473,1631,4059,4388
ATP6V1F_6_2533,1139,1494,1946,1646,835,884,2337,2292,482,1346,954,633
ATP6V1G2_6_2534,1190,1472,1008,1468,1901,1403,147,1157,1340,996,1490,1869
ATP6V1H_6_2535,6018,6523,5915,6756,11287,5411,6271,9747,6667,7808,9703,6207
ATP7B_6_2536,1693,1690,1306,2083,1672,658,1340,3446,1299,859,3116,2343
ATP8A1_6_2537,1854,2396,2489,1927,966,2681,1069,1914,1851,3314,2549,2813

ATP8B2_6_2538,880,812,1031,383,541,189,1911,340,465,1239,332,933
ATP8B3_6_2539,547,362,558,313,298,1196,27,804,279,240,210,480
ATPAF1_6_2540,673,1069,1082,996,931,1507,126,535,590,1618,1243,712
GC_6_2541,901,1261,1142,961,1105,1451,1185,915,1260,479,2024,1006
SERINC5_6_2542,17149,16080,19360,18375,13570,19072,15990,17581,14104,2
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SLC10A3_6_2543,883,415,1086,1275,660,179,268,535,787,2467,1613,555
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SLC12A1_6_2545,2784,2864,3315,3005,3198,3900,3400,1688,3505,4392,3366,
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SLC12A3_6_2546,849,854,1014,773,593,1530,1320,935,1099,1470,666,1490
SLC12A4_6_2547,1723,1868,1804,2214,3623,934,2073,1121,1789,2301,2937,4
89
SLC12A5_6_2548,429,293,805,403,3035,604,1023,115,200,128,728,151
SLC12A6_6_2549,1054,1294,1044,1196,1665,326,796,862,682,1830,2421,1711
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SLC13A2_6_2551,1991,2581,2897,2829,2364,1854,2033,3162,4419,3216,4692,
1398
SLC13A3_6_2552,2204,2329,2316,2642,1594,1615,2136,2982,2372,855,3582,2
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SLC25A21_6_2584,1840,2043,2464,2608,1316,1952,4263,1720,2127,2065,2896
,3254
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SLC01A2_6_2666,839,1287,1388,1874,2182,3101,1218,1860,368,2281,1202,15
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ATP1A4_6_2673,4782,4750,5887,5321,4403,4809,6009,3333,7442,8084,5601,4
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ATP5J2_6_2674,868,934,887,1277,1222,1982,571,851,1160,302,1786,309

ATP5S_6_2675,4704,3528,5745,4992,5777,3856,7038,7418,2550,7769,5229,62
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ABCA13_6_2683,11607,9493,11499,11097,10623,18377,9728,15093,7470,13712
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ABCA1_6_2684,632,356,1032,596,198,13,1342,272,945,783,1635,478

ABCA3_6_2685,488,360,786,468,204,1276,316,89,233,730,511,4

ABCA4_6_2686,3956,3642,4068,5560,3115,4123,4425,4801,3266,5162,5776,30
16

ABCA6_6_2687,958,1354,1127,1226,1610,1450,2464,2047,1588,264,1658,1480

ABCA7_6_2688,835,937,592,1012,1509,824,351,1656,718,2401,746,1202

ABCA8_6_2689,3005,2822,3532,3490,2990,1435,4242,2421,2070,3671,6422,41
33

ABCA9_6_2690,1091,1416,1633,1651,1880,3911,1633,2176,1351,1003,1820,36
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ABCB10_6_2691,1050,1002,1865,1883,1432,1417,1489,2151,3232,452,1566,71

ABCB11_6_2692,393,307,440,351,71,2,0,345,46,31,185,73

ABCB1_6_2693,11967,10053,12591,12830,10441,12867,12784,15010,10137,123
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ABCB6_6_2694,649,542,455,445,1889,157,648,1400,462,178,349,342

ABCB7_6_2695,1390,1414,1830,1656,400,1344,265,2495,1120,2059,3048,884
ABCB8_6_2696,1099,695,1195,899,1955,740,1435,1542,1028,2613,1796,507
ABCC12_6_2697,4142,4194,5997,5368,7867,6119,5532,5280,2914,3222,6351,4
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ABCC2_6_2698,1183,908,1818,1209,724,331,2616,1172,1231,570,849,2586
ABCC8_6_2699,2917,2680,2698,3296,2666,3163,3307,2580,3806,4717,4238,22
11
ABCD1_6_2700,605,162,306,660,402,2485,24,434,221,155,434,794
ABCD2_6_2701,223,80,599,322,39,127,99,163,2,15,921,93
ABCD4_6_2702,212,596,357,316,161,353,1099,1,1248,29,232,133
ABCF3_6_2703,1739,1290,1003,1276,1049,1594,2312,825,1188,809,1704,576
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ABCG5_6_2705,1680,1661,1879,1752,1240,669,1804,1172,888,1203,4116,1868
ABCG8_6_2706,521,615,806,847,336,411,2080,397,346,66,106,240
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ANXA4_6_2710,1079,631,725,786,920,1,1252,246,1042,701,47,1337
ANXA5_6_2711,811,717,1238,1295,2281,4997,1647,676,1043,1397,1460,1876
ANXA8_6_2712,1379,2072,2142,2643,742,1302,5858,2904,1380,1536,3495,238
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ANXA9_6_2713,3967,4115,4556,4291,4923,1859,4247,5773,5011,4978,4005,31
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ATP10A_6_2714,5488,4381,5124,5956,4376,2893,4358,6837,4899,3679,7450,6
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ATP10B_6_2715,376,433,529,635,167,156,259,454,321,42,208,48
ATP10D_6_2716,1021,987,784,840,830,1376,615,1688,1112,1378,1080,354
ATP11B_6_2717,33,48,53,25,607,41,0,195,88,0,0,0
ATP1A2_6_2718,814,535,997,929,1120,1659,446,1075,1353,256,1783,282
ATP1A3_6_2719,431,837,1036,1217,921,808,1679,1427,813,387,1492,706
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ATP1B2_6_2721,298,431,295,249,18,937,450,361,32,5,702,398
ATP1B3_6_2722,2827,2720,3273,2172,2287,2290,2472,2859,930,3681,3374,23
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ATP4A_6_2723,1606,1309,1921,1906,1207,853,1839,1521,2806,3524,7086,343
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ATP4B_6_2724,1095,888,1085,1059,2033,932,1467,2733,1595,1560,708,1169
ATP5B_6_2725,1837,2241,2003,1989,1245,2512,2323,1538,1494,2309,3541,48
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ATP5F1_6_2726,3538,3241,3773,3944,2775,3033,2826,4491,4326,4712,4624,5
301
ATP5I_6_2727,258,417,116,258,853,13,472,194,95,871,51,28
ATP5L2_6_2728,557,476,591,756,1537,512,152,1335,265,412,357,436
ATP5L_6_2729,2158,2238,1838,2679,1559,827,1994,2119,1109,3112,2572,217
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ATP50_6_2730,1248,1016,1408,1442,2845,975,1345,941,595,436,1177,1088
ATP6AP1_6_2731,1117,587,936,600,803,1473,293,831,809,981,688,1832

ATP6AP2_6_2732,2628,2705,2988,3252,2969,2473,6005,2072,2703,985,1560,2
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ATP6V0A2_6_2733,1033,470,769,474,696,187,550,305,576,442,1781,1381
ATP6V0D1_6_2734,1023,1124,1375,1816,110,1116,1534,725,2365,1432,2128,1
266
ATP6V0D2_6_2735,5971,6160,6551,5765,6794,5029,13115,5059,7591,3549,773
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ATP6V1A_6_2737,1680,1823,1686,1950,923,1679,1593,2748,1588,2366,2036,1
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ATP6V1B1_6_2738,1696,1385,2037,2106,940,2203,2008,960,1240,1334,3363,2
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ATP6V1B2_6_2739,1892,1763,1828,1680,1666,4065,1533,4373,975,1588,1431,
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ATP6V1C1_6_2740,3938,3209,4608,3689,4031,4719,3893,6092,2928,6158,3679
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ATP6V1D_6_2741,4702,3646,4718,4827,3922,3953,2476,5139,6223,5307,5977,
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ATP6V1E2_6_2742,673,580,805,720,542,1190,1301,298,105,409,1247,473
ATP6V1G1_6_2743,904,806,818,697,614,704,180,776,668,1325,1171,1172
ATP7A_6_2744,1835,1655,2133,2039,1710,1786,2068,773,1841,1183,1556,234
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ATP8A2_6_2745,2004,2071,3039,2898,1131,4469,1534,2175,2275,3393,2922,2
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ATP8B1_6_2746,642,846,1078,907,185,732,1237,277,1140,808,1031,2366
ATP8B4_6_2747,1047,662,808,879,1256,287,969,2053,688,1904,592,1668
ATP9A_6_2748,350,879,921,295,713,901,145,479,158,988,624,317
ATP9B_6_2749,817,402,878,683,1262,638,33,156,302,1335,1316,123
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FLVCR1_6_2751,372,325,395,346,1,147,606,277,641,352,236,484
RHBG_6_2752,1049,1326,641,898,1578,824,929,1128,1121,1847,1336,481
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3836

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SLC9A4_6_2916,2581,2984,2298,2695,3890,3163,2326,1609,1973,4567,3865,3278

SLC9A5_6_2917,1049,1246,1247,1195,956,2693,1008,1241,1028,2683,2837,20

70

SLC9A7_6_2918,659,395,690,828,2924,335,1056,199,726,215,1938,247

SLC9A8_6_2919,799,1151,1287,1122,964,837,596,1236,1125,914,1797,575

SLC9A9_6_2920,4708,4069,4919,5122,4848,3904,7335,5684,3502,6080,9939,5058

SLC01B1_6_2921,6675,6908,8197,8549,4670,10941,9337,5689,5806,9416,7905,9215

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SLC02A1_6_2923,622,697,599,701,74,467,311,116,620,453,744,37

SLC04A1_6_2924,1281,1748,2077,1741,1418,1063,2134,2370,952,1046,1556,1779

SLC04C1_6_2925,5905,5037,6681,6618,8471,10232,4587,7350,3993,9831,6408,6775

SLC06A1_6_2926,8067,8018,8881,9046,6845,8782,7862,9667,5626,8216,8359,8443

SV2A_6_2927,418,598,681,539,1086,484,849,1256,607,657,32,65

TAP1_6_2928,822,610,724,815,116,249,105,154,391,35,825,244

UCP1_6_2929,8362,7606,8770,7595,9983,7547,7475,9141,6652,10718,9295,7926

ABCA12_6_2930,6102,6533,6454,6055,7190,5292,4702,8877,5811,5411,7041,6823

ABCA2_6_2931,504,422,613,524,3,733,302,940,958,380,884,525

ABCA5_6_2932,7556,7310,10292,8773,7972,9852,10208,10804,6342,10509,11900,10163

ABCB4_6_2933,3719,2977,4046,3070,3168,3074,4070,6479,1820,3094,7398,3650

ABCB9_6_2934,1879,1749,1491,1994,2294,1613,1520,1312,2075,1883,2516,920

ABCC10_6_2935,992,1044,739,1295,417,1218,999,1361,485,1256,1405,891

ABCC11_6_2936,2395,2339,3002,2502,3530,2233,3774,2401,1597,2032,4187,2362

ABCC1_6_2937,763,713,733,1320,1110,1394,1452,105,1074,946,317,829

ABCC3_6_2938,1531,1519,1735,1914,1127,2645,2134,1048,2045,769,3164,2750

ABCC4_6_2939,2671,1788,3005,2430,2676,2999,1011,424,1860,2056,3191,3066

ABCC5_6_2940,1248,966,1264,1458,660,815,1578,365,1049,1150,1661,601

ABCC9_6_2941,2572,2823,3659,3196,2484,2703,2256,2222,4284,5573,3067,4377

ABCD3_6_2942,3760,3146,4159,3437,2559,3925,3429,2250,3070,2653,5258,3518

ABCE1_6_2943,1621,2146,1944,1688,2272,3608,1610,3357,1424,1895,3195,861

ABCF1_6_2944,283,350,734,358,267,16,1012,1266,11,124,318,384

ABCF2_6_2945,2669,2965,3438,3648,2914,4092,3461,3585,2712,3585,4069,3659

ABCG1_6_2946,1557,1309,1050,1250,1458,368,1748,400,470,1878,1296,1127

ABCG4_6_2947,210,504,517,778,1232,728,744,180,244,2,100,284

ANXA11_6_2948,1595,1404,1524,1429,1273,1399,394,902,567,2021,1715,1664

ANXA13_6_2949,2535,2277,3218,3095,2551,3209,4388,3276,2951,2981,2903,2789
ANXA2_6_2950,3080,2295,3374,2856,2785,3969,1969,1282,3331,2715,4581,2578
ANXA6_6_2951,657,337,590,640,20,884,1822,35,169,0,114,765
ANXA7_6_2952,381,594,697,737,168,580,264,26,1011,957,672,738
ATP11A_6_2953,1124,975,1281,976,1488,1081,3333,1085,1087,228,222,1435
ATP11C_6_2954,2403,1855,2011,1965,726,2177,1289,1886,1524,2038,3575,1950
ATP12A_6_2955,620,594,874,741,639,723,255,1098,425,1687,498,1484
ATP1A1_6_2956,3190,3631,2643,3520,1803,3263,4104,4336,1504,2921,3614,3105
ATP1B4_6_2957,1314,1181,1427,1541,793,1032,2921,1445,960,1207,2523,695
ATP2A1_6_2958,274,390,216,360,43,519,560,78,350,166,134,41
ATP2A2_6_2959,2794,1773,2601,3138,1788,2955,4061,2858,1688,2749,3149,2724
ATP2A3_6_2960,1361,1120,1094,1123,1333,837,1500,2271,833,1300,1263,2584
ATP2B1_6_2961,5546,5197,6481,5549,4204,8351,5951,8869,5923,5447,5570,4513
ATP2B3_6_2962,563,456,454,684,81,1047,101,202,230,654,200,349
ATP2B4_6_2963,6866,6726,8349,7271,6304,7715,5912,7253,4474,6425,9231,5733
ATP2C1_6_2964,2989,2579,3015,2779,3155,1971,3221,3047,2171,5416,4029,4218
ATP5A1_6_2965,860,976,1079,1092,1110,1465,1533,449,788,897,1020,768
ATP5C1_6_2966,2530,2257,2418,2122,3899,1173,2978,2855,2536,4741,1763,3333
ATP5D_6_2967,219,463,419,420,926,72,867,683,97,1,351,1123
ATP5E_6_2968,1728,1233,1589,1532,351,902,1185,1399,849,2594,2409,1375
ATP5G1_6_2969,118,87,58,124,0,0,98,0,0,0,449,0
ATP5G2_6_2970,1990,1867,2320,1587,1425,728,874,2738,181,1084,4996,2498
ATP5G3_6_2971,729,594,1153,676,1099,1786,289,1572,943,468,1125,473
ATP5H_6_2972,1630,1058,1495,1536,1311,591,2025,2867,2108,695,976,445
ATP5J_6_2973,1878,2235,2684,1910,792,3186,3000,4075,1628,2071,2462,3131
ATP6V0A1_6_2974,2764,2591,2573,2752,3645,747,1651,2664,1444,2011,3465,2675
ATP6V0A4_6_2975,3470,2582,3077,3138,5472,3993,4006,2727,2718,2941,4846,3309
ATP6V0B_6_2976,398,354,498,306,85,27,13,898,738,389,443,160
ATP6V0C_6_2977,2935,2849,3278,3225,3482,3620,3516,3165,2906,3729,4194,2526
ATP6V1C2_6_2978,2996,1919,3270,2677,1591,1687,3832,2600,1325,1827,4454,2213
ATP6V1E1_6_2979,402,264,529,626,546,9,436,554,145,550,1170,111
ATP6V1F_6_2980,677,612,739,1094,638,831,1426,1676,727,1204,1026,1055
ATP6V1G2_6_2981,1965,1643,1803,1933,1539,949,2899,2114,1285,2648,3478,2122
ATP6V1H_6_2982,728,898,1149,1047,358,1261,610,2064,332,2432,2456,389

ATP7B_6_2983,1491,1890,2645,1739,820,2328,1388,1902,1488,1962,2089,205
9
ATP8A1_6_2984,2128,1995,1945,1860,1542,2874,2148,518,1807,1001,2829,27
30
ATP8B2_6_2985,1018,1500,1615,1763,1777,468,1168,716,1335,950,1046,1002
ATP8B3_6_2986,714,853,906,705,708,805,1269,728,846,141,2037,936
ATPAF1_6_2987,2581,2498,2898,2629,258,2190,2649,2142,1251,2903,3737,36
22
GC_6_2988,2838,3417,3171,3438,3686,3727,1858,5821,1545,2354,2784,6756
SERINC5_6_2989,392,612,175,352,7,873,20,474,195,161,92,51
SLC10A3_6_2990,829,219,244,478,467,204,654,1,5,1495,519,57
SLC11A2_6_2991,436,339,482,882,312,188,1089,1136,114,1282,263,1663
SLC12A1_6_2992,2231,2274,2777,2944,2761,2731,2330,3915,2168,1730,3115,
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SLC13A2_6_2998,682,670,923,757,1022,416,1504,460,343,1837,1155,942
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SLC15A2_6_3003,1501,1605,2573,2146,1747,3285,2030,2349,1058,1276,3237,
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SLC16A1_6_3004,1621,1788,2099,2181,3157,4173,1903,2099,1477,2597,2016,
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SLC17A3_6_3008,870,1233,1525,1107,967,1060,725,1544,476,1733,1607,1516
SLC17A8_6_3009,2492,2207,2063,2236,3264,1929,2283,2393,2578,1910,3848,
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SLC18A1_6_3010,3314,4206,3699,3647,3516,3953,3338,3679,3328,6904,2102,
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SLC1A2_6_3012,1214,1486,1690,1709,2227,876,2137,2338,846,248,3449,1405
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136
SLC1A4_6_3014,1364,1807,1251,1370,1598,1247,847,829,1871,505,1974,1319
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601
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SLC22A1_6_3019,487,338,511,592,645,260,1071,570,819,766,921,571
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SLC25A13_6_3028,1200,559,1023,1742,1722,691,791,1089,2325,1108,382,792
SLC25A14_6_3029,6160,5277,6272,6152,6153,6285,6248,5004,5640,7135,4837
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SLC25A19_6_3030,4732,3611,5220,5348,5065,5375,3476,5517,6161,6088,7034
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1332
SLC25A26_6_3033,1060,971,1006,940,555,718,1416,336,1053,1936,1943,1902
SLC25A27_6_3034,4842,5078,5904,5235,3455,5002,4892,3669,3770,8924,6571
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SLC25A3_6_3035,3378,2638,3550,3544,3503,3014,3796,3098,2491,5115,5299,
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SLC26A6_6_3039,747,976,666,1083,560,182,497,1475,303,798,666,1201
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268
SLC28A3_6_3045,2153,1810,2734,2274,1888,2098,2395,2319,891,4095,3151,2
388
SLC29A1_6_3046,232,543,666,656,1469,860,245,1457,51,142,45,680
SLC29A3_6_3047,2822,2153,3611,2447,1076,3405,1454,3499,2874,2547,5613,
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SLC29A4_6_3048,1210,939,793,948,2295,522,993,675,1217,1315,541,776
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7982,29524,23178
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61
SLC35B3_6_3063,1045,746,1912,1783,1013,717,512,1556,340,873,1198,1394
SLC35C1_6_3064,282,364,454,657,258,223,208,74,584,471,390,263
SLC35C2_6_3065,1378,905,720,1090,354,1934,912,2014,1926,626,738,1488
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08
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1632
SLC37A4_6_3070,928,1087,811,839,753,151,1096,802,1540,1005,1088,446
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SLC39A10_6_3075,5966,5715,5916,6834,5987,4685,5935,9052,4971,8295,4443
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1480
SLC39A13_6_3078,351,532,840,1043,234,309,39,1494,97,83,586,1456
SLC39A14_6_3079,967,510,774,603,1395,476,640,345,829,1808,2580,1054
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97
SLC39A5_6_3081,1169,1479,1575,1414,588,1395,1249,2446,852,2788,1848,16
60

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SLC4A3_6_3091,361,324,596,541,406,341,623,529,630,717,326,328
SLC4A4_6_3092,1361,1428,1707,1313,633,1529,1344,2377,1316,1600,2630,717
SLC4A8_6_3093,682,1069,1353,546,978,636,603,529,598,1453,1051,871
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SLC5A9_6_3095,307,314,903,393,300,367,212,907,78,135,286,1204
SLC6A12_6_3096,1715,2054,1865,2001,3305,1761,1506,903,1690,2653,2422,1729
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SLC7A3_6_3104,1529,1687,1907,1839,1583,560,1975,1883,1270,2789,3352,1401
SLC7A6_6_3105,1641,1361,1519,1558,1109,342,751,1744,517,1675,692,752
SLC7A7_6_3106,1898,2104,2090,2331,2601,1854,2735,1253,3232,1070,2786,2826
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SLC8A3_6_3110,2896,2913,4490,4632,2740,5457,3959,3203,3255,2412,4699,4140
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SLC01A2_6_3113,393,388,487,803,490,669,106,13,284,152,1204,1741
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SLC03A1_6_3116,222,510,443,569,37,246,200,53,903,251,342,185
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ATP1A4_6_3120,634,648,1117,713,1172,394,133,1768,873,2658,234,272
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ABCA3_6_3132,1423,971,1694,2008,1131,3573,2154,1457,1480,1148,1850,262
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ABCA4_6_3133,2572,2432,2834,3123,3217,4176,2178,2196,2926,2559,2302,24
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ABCA6_6_3134,5790,5406,6648,5021,5568,3539,6461,5555,3893,5452,5836,48
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ABCA7_6_3135,1840,2426,2644,2035,630,2156,2297,2213,2090,1476,2875,211
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ABCB10_6_3138,1696,1322,1835,777,1472,2361,3015,1450,2053,727,1288,100
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ABCB11_6_3139,1004,612,1331,1165,585,261,450,1256,451,485,370,428
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ABCB6_6_3141,4128,3088,4968,4042,4589,5084,4734,4704,6087,7465,5773,29
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ABCB7_6_3142,3162,2814,5312,4219,2686,6288,2704,4326,4869,3160,4909,44
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ABCB8_6_3143,912,1069,1408,1432,1267,757,457,301,1668,2406,1830,792
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ABCC2_6_3145,1430,1785,1581,2018,1674,1599,1576,1508,1617,1134,3282,1410
ABCC8_6_3146,299,171,279,209,191,0,589,97,0,864,0,274
ABCD1_6_3147,1540,1699,1646,1187,920,2288,660,447,486,1001,1873,1491
ABCD2_6_3148,1173,970,1189,1428,1068,883,408,852,1710,1976,1328,999
ABCD4_6_3149,649,489,761,551,510,1178,529,744,201,1133,1626,851
ABCF3_6_3150,2487,2464,2804,3149,1305,1400,4239,1642,3042,2522,4762,2182
ABCG2_6_3151,1925,2452,3069,2453,1210,4186,2265,3094,1477,4523,3391,1808
ABCG5_6_3152,1992,1521,2199,1805,2654,1156,680,2284,666,2096,1931,2377
ABCG8_6_3153,1861,1130,1170,1270,2097,1151,2016,1541,2798,1822,926,703
ANXA10_6_3154,6951,5608,6552,5643,7615,8363,7274,10038,5277,8394,10772,4330
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ANXA3_6_3156,4059,2717,3802,4526,3962,5195,2150,2602,3291,5201,4221,4543
ANXA4_6_3157,1976,802,1352,1808,2167,2514,2654,2694,559,2219,1524,2161
ANXA5_6_3158,1414,1321,1017,1262,1797,1173,1565,1830,1562,1278,1693,767
ANXA8_6_3159,1482,1022,835,699,468,4225,304,422,318,985,1318,1117
ANXA9_6_3160,185,374,316,360,471,2,338,72,436,2665,135,1236
ATP10A_6_3161,3399,2562,4376,3563,3061,4276,3961,4201,2132,3259,3579,3325
ATP10B_6_3162,2706,2883,3297,2927,2495,2802,2238,2622,3223,3969,2411,2906
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ATP1B2_6_3168,661,303,587,789,952,362,65,1584,1367,1143,166,268
ATP1B3_6_3169,1362,981,1445,1775,838,890,1673,3057,1061,3254,2569,480
ATP4A_6_3170,473,1003,914,1123,1307,572,226,815,160,942,234,363
ATP4B_6_3171,356,105,563,296,598,135,326,262,0,18,1028,12
ATP5B_6_3172,16051,16539,19439,17031,12166,21637,14936,17765,12958,15991,21666,13707
ATP5F1_6_3173,243,267,299,328,278,1138,259,237,256,564,450,309
ATP5I_6_3174,902,575,928,659,976,451,488,771,2443,893,1701,938
ATP5L2_6_3175,4639,3466,4300,3775,3784,4908,4494,5467,1940,4494,5658,4020
ATP5L_6_3176,1066,354,1238,1633,796,1292,1417,988,1116,1076,1569,357
ATP50_6_3177,1253,1748,1717,1619,2832,793,1886,1416,1194,1073,1609,1749
ATP6AP1_6_3178,1316,1210,1192,1046,3274,1120,1380,2092,1108,1706,3110,2996

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ATP8A2_6_3192,984,992,645,922,302,1265,1751,840,1771,324,1648,1196
ATP8B1_6_3193,1078,741,1267,977,366,116,994,563,572,864,1901,429
ATP8B4_6_3194,1422,1469,1210,1422,331,1024,1363,2199,600,1128,1689,255
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ATP9A_6_3195,2015,2474,2870,2344,1535,1222,1521,3577,1124,2534,1801,28
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ATP9B_6_3196,1006,1358,1225,2240,537,1614,1789,1391,1558,2392,2143,143
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FLVCR1_6_3198,139,393,570,492,280,317,9,386,406,1163,787,944
RHBG_6_3199,343,220,493,509,69,27,20,44,52,172,703,171
RHCG_6_3200,2017,2173,2838,3288,923,1594,1366,2726,2381,4153,3149,3364
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SLC10A5_6_3204,1002,1694,1445,1404,2166,1334,2557,2390,2386,2522,1846,
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SLC16A2_6_3218,4170,3240,4485,5006,4602,4913,3357,3504,3241,6020,4512,
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SLC16A8_6_3221,571,345,503,910,560,56,400,347,1102,140,1088,895
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SLC19A3_6_3230,2081,2890,2183,2529,2811,2095,2572,4197,2741,2278,5373,
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SLC22A10_6_3236,7571,7676,8819,8558,9237,9191,9801,9619,4114,9062,1266
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SLC22A13_6_3238,2411,2414,2312,2397,2687,1796,1523,622,1524,3920,3203,
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SLC22A14_6_3239,2201,2238,2117,2117,1612,3223,1580,3449,2714,748,1002,
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SLC22A15_6_3240,1537,1662,1712,1387,1511,1283,1330,2500,2338,2503,3272
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13,2019

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SLC25A37_6_3263,1051,772,949,981,1310,1240,491,361,1275,395,1941,911

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1939

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SLC2A1_6_3283,2122,2577,2735,2635,3144,2622,829,3205,2096,1172,3219,1341

SLC2A2_6_3284,2247,1066,2580,2838,2377,2576,884,2006,2056,857,2788,3406

SLC2A3_6_3285,3259,2814,4246,3892,2335,2381,2730,4220,2949,3658,6947,3131

SLC2A4_6_3286,401,887,511,419,34,75,21,415,670,1878,341,439

SLC2A4RG_6_3287,578,999,555,733,1457,1519,210,655,77,796,1018,592

SLC2A7_6_3288,1454,2220,1667,1352,2332,2997,1967,3153,1223,1998,1362,1561

SLC2A8_6_3289,2195,1570,2214,2207,1094,730,3365,2026,1799,2761,2214,1619

SLC30A10_6_3290,2223,1633,2080,2297,776,2465,2652,4043,1453,4049,2039,2246

SLC30A1_6_3291,5956,5841,6288,6131,5890,4890,6134,3421,6393,5558,7411,5525

SLC30A3_6_3292,845,783,1172,1391,1062,968,678,2417,416,1289,1317,1472

SLC30A4_6_3293,1315,1616,1421,1446,436,1113,1315,1684,1733,386,1611,1132

SLC30A9_6_3294,972,503,1354,1658,456,3011,935,1352,816,512,1213,687

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SLC31A2_6_3296,275,325,529,396,216,2,625,3,59,69,813,71

SLC32A1_6_3297,753,630,615,1169,1485,331,196,73,202,309,725,1689

SLC35A3_6_3298,14292,13781,18898,16472,11906,17858,17156,18904,11435,22074,18900,10366

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SLC35D1_6_3304,4356,4566,4791,4452,3767,5029,4478,3674,5088,4275,5679,4830
SLC35D2_6_3305,6330,5471,6461,6170,5145,7187,5732,6412,3870,7678,9345,3863
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SLC35E1_6_3307,1805,1855,1778,1810,2919,2761,2645,1566,2059,3437,2562,2276
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967

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SLC5A3_6_3338,7921,7590,8306,8482,5527,5988,6045,7048,7722,7820,12356,7615

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SLC5A7_6_3342,1426,1548,1440,1827,1135,917,1470,4181,759,4850,2858,2228

SLC5A8_6_3343,2615,1937,2129,2958,2382,3661,3484,2353,1473,1668,3544,3188

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SLC6A16_6_3346,1796,1388,1525,2053,800,644,2081,923,700,4449,2923,1265

SLC6A19_6_3347,1509,1090,1818,1349,1304,748,2332,2320,2254,927,2071,2153

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SLC6A4_6_3350,533,386,610,492,221,1179,77,39,107,274,355,266

SLC6A7_6_3351,102,420,224,102,274,426,390,58,1,104,564,5

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,11721,10456
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SV2A_6_3374,638,291,1176,774,910,705,607,674,465,212,1116,355
TAP1_6_3375,1069,821,1370,1234,348,1123,1143,3036,1535,2309,591,1678
UCP1_6_3376,2109,2544,2098,2470,2391,3112,2125,4358,1508,4331,2986,331
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ABCA12_6_3377,1729,812,1503,1294,1493,1585,979,1955,951,2005,1139,2564
ABCA2_6_3378,934,1066,1553,1261,2001,1340,1307,1557,848,918,2085,631
ABCA5_6_3379,11735,12299,15530,13183,11773,8778,16217,21920,12698,2096
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ABCB4_6_3380,5178,5572,5932,6958,6814,4483,3191,6253,4078,7074,6240,82
38
ABCB9_6_3381,872,371,681,703,696,57,883,958,710,377,404,590
ABCC10_6_3382,1581,1127,1502,1661,1238,570,2221,191,692,2200,1139,233
ABCC11_6_3383,2160,1947,2711,2531,1967,644,1721,2920,1901,4285,3486,21
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ABCC1_6_3384,1403,1167,598,1303,273,202,552,407,143,1350,1419,788
ABCC3_6_3385,1325,1137,1522,1579,1120,3085,2724,1500,1489,3410,2729,36
51
ABCC4_6_3386,2495,3096,3825,3284,2306,3330,3771,2845,2785,4337,3325,20
72
ABCC5_6_3387,1609,1502,1916,2136,2045,3086,2939,1142,2630,4321,1160,14
69
ABCC9_6_3388,15669,12502,16633,15676,13485,16524,19055,15588,15167,136
33,16567,13544
ABCD3_6_3389,5062,5570,6223,7087,3377,8386,7511,4963,5210,4073,6704,35
11
ABCE1_6_3390,1187,752,1076,1066,482,235,747,863,465,243,310,992
ABCF1_6_3391,707,852,996,995,160,1572,1123,517,163,1053,2315,338
ABCF2_6_3392,1448,1537,1902,1212,994,388,2784,504,1462,1478,1414,1393
ABCG1_6_3393,697,1141,1050,791,622,434,1562,988,93,3099,1675,619
ABCG4_6_3394,338,86,616,348,1,754,534,203,20,18,58,185
ANXA11_6_3395,1489,1588,1813,1660,2350,2791,2708,1490,1552,3609,3340,1
509
ANXA13_6_3396,1674,1358,1519,1530,1722,301,1287,1906,1810,940,1444,164
2

ANXA2_6_3397,1254,1036,987,1398,1756,1310,1320,1483,322,803,2896,867
ANXA6_6_3398,855,1011,971,1530,441,2869,1861,541,560,1890,2220,1226
ANXA7_6_3399,4902,4437,4971,5218,4265,6503,4010,6358,3789,3897,3788,55
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ATP11A_6_3400,3226,4067,4650,4238,2670,3845,3511,4294,4090,5974,4138,3
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ATP11C_6_3401,3140,3241,2460,2628,1523,3039,2865,3078,1641,2081,2458,2
691
ATP12A_6_3402,1943,1275,1868,2414,801,1251,2184,649,1088,1052,1970,911
ATP1A1_6_3403,855,1225,1021,1363,1009,686,1034,750,1051,1250,1627,1066
ATP1B4_6_3404,5315,4767,6854,6788,2036,3665,5104,4784,3494,5612,6489,4
157
ATP2A1_6_3405,879,400,821,870,1426,378,1114,720,273,151,2047,576
ATP2A2_6_3406,3199,2826,3688,4226,5291,1913,3482,3109,1849,2456,3300,2
858
ATP2A3_6_3407,2885,2892,3715,3737,2212,4675,3599,3457,1848,2632,3193,2
656
ATP2B1_6_3408,1127,1256,1404,1571,1463,3730,3717,444,956,3749,1459,150
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ATP2B3_6_3409,771,1071,974,1260,1474,615,983,1120,1527,582,857,114
ATP2B4_6_3410,6199,5616,6656,6679,7356,4720,9682,5683,6795,5427,7509,7
544
ATP2C1_6_3411,1101,537,982,689,823,1688,1615,1085,623,746,1271,957
ATP5A1_6_3412,1799,2130,2555,2852,3119,1832,2757,1212,4153,2227,1833,1
899
ATP5C1_6_3413,4068,5166,6023,4762,4938,5964,6166,5336,4143,3497,7302,6
168
ATP5D_6_3414,992,1068,1280,1144,500,1590,647,1040,2884,737,773,1712
ATP5E_6_3415,1934,1995,2328,2407,2931,2822,1445,3125,2161,2594,3307,29
26
ATP5G1_6_3416,1668,1076,1962,1895,1498,2831,3605,2427,1309,1063,449,90
8
ATP5G2_6_3417,1964,1257,1907,1696,1303,2031,1940,2704,1623,1197,2439,9
28
ATP5G3_6_3418,3057,4145,3597,3485,3392,4214,3733,2175,3739,5096,3225,3
740
ATP5H_6_3419,19279,17568,22304,22939,19577,17869,26516,22650,13251,192
12,26096,18929
ATP5J_6_3420,3951,3965,3785,3872,2765,5590,4242,6384,2469,7579,5495,33
05
ATP6V0A1_6_3421,1438,658,1553,1204,3077,737,1392,461,1423,1555,1626,19
42
ATP6V0A4_6_3422,3110,3050,2691,3324,3419,1978,3396,3095,1829,2820,3737
,2495
ATP6V0B_6_3423,1342,1455,1105,1648,789,153,1005,788,746,2036,1408,992
ATP6V0C_6_3424,442,174,365,276,40,3,877,1285,534,287,818,1105
ATP6V1C2_6_3425,1874,2061,2127,2161,2179,1080,1699,1548,1601,2283,3918
,2095
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,3676

ATP6V1F_6_3427,468,339,865,576,80,1091,375,549,1350,733,386,651
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ATP6V1H_6_3429,1957,2187,1826,2303,1455,824,1409,690,1357,2233,1978,70
8
ATP7B_6_3430,1109,1533,1519,1427,1011,1265,1249,1812,385,1820,2362,181
4
ATP8A1_6_3431,5646,5818,6393,5943,5117,4744,4073,8921,3217,4564,5089,5
259
ATP8B2_6_3432,4327,4108,5233,5119,3431,3847,4308,5227,5922,3660,8627,2
149
ATP8B3_6_3433,1354,2139,2646,1825,821,2684,1946,1218,1500,656,4594,246
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,12029
GC_6_3435,3266,3053,3928,3793,2857,2137,4530,4759,3269,4527,5778,2670
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63,20732,13980
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6
SLC14A1_6_3448,968,1142,1010,943,1800,686,1423,749,448,737,880,1668
SLC14A2_6_3449,927,688,1665,1287,2842,811,1003,437,586,500,1478,349
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47
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SLC39A14_6_3526,842,1031,901,1243,1249,1120,1111,1474,664,2103,1561,904
SLC39A4_6_3527,1049,368,502,559,823,1272,18,225,86,564,629,664
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SLC01A2_6_3560,2810,2500,3180,3493,2496,1261,4693,2365,2460,3586,4083,
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ABCA10_6_3575,1347,1211,1548,1069,475,800,1169,734,1276,1986,744,1289
ABCA13_6_3576,1224,1187,1802,1775,1234,3750,1488,1096,1771,3474,673,88
8
ABCA1_6_3577,762,652,866,969,631,1691,1053,1515,932,546,1260,1632
ABCA3_6_3578,1041,1738,1746,1614,655,1542,3190,1334,411,1320,866,3119
ABCA4_6_3579,18285,17141,22916,19696,14205,22928,16933,18109,17861,170
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ABCA6_6_3580,11515,12587,13514,12335,13655,11080,13723,12824,9880,9754
,16803,14088
ABCA7_6_3581,1451,253,864,958,0,3655,1519,910,628,4,590,24
ABCA8_6_3582,6529,5803,7831,6151,5367,8700,6652,10883,5399,7901,9271,7
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ABCA9_6_3583,6529,5803,7831,6151,5367,8700,6652,10883,5399,7901,9271,7
016
ABCB10_6_3584,2064,1830,2159,2069,2207,3552,1021,1662,2894,2230,2390,2
935
ABCB11_6_3585,118,67,449,385,88,383,103,802,39,149,434,250
ABCB1_6_3586,3984,3439,4023,4028,5101,3283,4632,3766,4499,3677,4740,62

01

ABCB6_6_3587,491,462,519,316,54,17,243,490,393,328,131,421

ABCB7_6_3588,739,865,1065,1057,1267,1538,731,753,1324,658,796,492

ABCB8_6_3589,2231,2281,2847,2462,1775,1251,3250,3582,2890,2832,3500,2275

ABCC12_6_3590,3109,2846,3623,4053,3371,2902,2937,3491,3078,3872,5050,2324

ABCC2_6_3591,6589,7331,8194,8463,9473,8477,9800,7048,7012,6521,13014,8690

ABCC8_6_3592,1743,2119,2803,2145,1458,3769,2357,1312,2645,5139,3226,3472

ABCD1_6_3593,1416,1593,1495,940,915,2298,660,448,481,1004,1619,1490

ABCD2_6_3594,667,498,1154,1106,1413,626,314,819,970,523,1291,732

ABCD4_6_3595,1554,2106,1398,1571,1445,1140,960,1877,1418,3566,2490,2372

ABCF3_6_3596,5583,5158,6059,5595,5607,5250,6135,4031,7313,4332,7453,7436

ABCG2_6_3597,3021,3311,3550,3357,6970,2364,3104,3745,2335,2811,5346,3278

ABCG5_6_3598,523,833,963,554,1018,703,1221,606,809,806,450,1312

ABCG8_6_3599,491,471,612,528,505,825,985,912,563,568,625,1379

ANXA10_6_3600,9648,9571,12901,9986,10148,12692,11500,13616,11290,10354,10969,9204

ANXA1_6_3601,4931,4142,4621,3837,3321,4845,4957,2693,3389,5985,6923,5338

ANXA3_6_3602,2726,2615,3885,3287,2722,2997,3567,2630,3039,3119,4533,4739

ANXA4_6_3603,6688,5251,7463,5919,5118,6643,6294,6156,4046,10041,7020,10582

ANXA5_6_3604,809,683,1002,524,824,951,1686,1505,127,2378,1445,678

ANXA8_6_3605,3853,4050,4570,4599,3360,4496,5404,3344,3852,4530,6359,6157

ANXA9_6_3606,452,307,349,461,139,9,473,1205,537,213,435,137

ATP10A_6_3607,1788,1579,2702,1610,2408,1148,2459,2890,2997,1250,4291,3302

ATP10B_6_3608,441,515,834,716,75,1681,148,711,1240,1695,1157,615

ATP10D_6_3609,1060,798,1099,1342,945,2502,1572,1996,1528,1020,1499,1710

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ATP1A2_6_3611,1047,1807,1171,935,899,426,1222,627,604,1070,1839,1312

ATP1A3_6_3612,2379,2018,2750,2881,1809,2205,4005,1086,1206,470,3830,5292

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ATP1B3_6_3615,2687,2960,2728,2885,2529,3886,2474,2743,1561,800,3275,1521

ATP4A_6_3616,3747,3522,4744,4225,4254,4807,3971,5122,5048,6724,6395,5388

ATP4B_6_3617,669,737,710,856,765,121,428,304,1404,1445,1559,862
ATP5B_6_3618,1212,1412,1788,1640,1190,3148,3073,2616,1540,2671,1038,1048
ATP5F1_6_3619,3750,3502,3999,4037,2795,4059,2682,4835,4302,4707,4688,5400
ATP5I_6_3620,380,493,503,561,234,20,430,530,751,863,1418,332
ATP5L2_6_3621,3756,2884,3122,3526,2399,1071,2827,3467,1888,3747,4012,4541
ATP5L_6_3622,4639,3466,4300,3775,3784,4908,4494,5467,1940,4494,5658,4020
ATP50_6_3623,1999,1989,2259,2140,4709,1573,2214,2112,916,2827,949,1152
ATP6AP1_6_3624,1249,1099,1388,1065,249,2561,1423,1828,1052,758,1051,1220
ATP6AP2_6_3625,512,432,646,490,603,937,700,433,630,344,752,1068
ATP6V0A2_6_3626,1018,1586,1186,1578,728,1335,2969,602,1298,3149,2090,2255
ATP6V0D1_6_3627,1259,827,1665,1190,732,1171,1599,1020,850,489,3666,1882
ATP6V0D2_6_3628,2003,1550,2263,1744,465,1175,2136,1216,1616,1975,3302,1552
ATP6V0E1_6_3629,755,1032,871,541,2,335,1255,1143,666,379,1054,451
ATP6V1A_6_3630,2126,1502,1643,2074,3553,2306,1391,3358,1318,2429,2090,1696
ATP6V1B1_6_3631,1729,1118,1431,1941,3466,886,4224,876,430,1442,2457,1091
ATP6V1B2_6_3632,1741,1918,2281,1612,1312,1639,1245,3560,3155,697,3158,2319
ATP6V1C1_6_3633,2741,2386,3001,2132,2379,2026,3406,3965,3934,2530,4530,2627
ATP6V1D_6_3634,4865,3591,4648,4847,4170,4411,3060,5152,6172,5935,6288,3091
ATP6V1E2_6_3635,668,1063,829,949,785,382,897,355,601,1387,1557,754
ATP6V1G1_6_3636,1596,1634,1951,1918,1167,309,2095,2850,1698,1779,2875,726
ATP7A_6_3637,2873,3710,4325,4045,5752,3190,2455,4298,3179,4433,3058,2991
ATP8A2_6_3638,2853,2962,3111,2757,3154,2845,2268,2818,2571,2122,2992,2830
ATP8B1_6_3639,408,145,430,538,1568,1,121,761,579,116,272,206
ATP8B4_6_3640,2644,3053,2863,2887,3342,4305,2545,1528,2307,2161,2925,3093
ATP9A_6_3641,5286,5093,6312,5632,7398,4140,4667,6810,5192,6438,7770,6663
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949

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ABCB9_6_3827,1137,639,951,1034,375,1513,229,447,738,341,909,546

ABCC10_6_3828,686,743,860,634,1058,919,423,290,1416,825,1699,800

ABCC11_6_3829,866,657,436,701,149,771,635,26,68,359,1114,581

ABCC1_6_3830,736,809,755,766,870,386,1342,516,979,164,905,344

ABCC3_6_3831,618,938,1514,1086,799,2129,1107,406,184,205,1064,1095

ABCC4_6_3832,4819,3742,5049,4862,5217,5325,4342,5789,4397,6508,6243,3961

ABCC5_6_3833,609,165,496,277,136,129,188,142,859,221,23,768

ABCC9_6_3834,2788,2491,3728,3460,3279,4215,2444,3079,1961,2441,2428,3384

ABCD3_6_3835,3263,3134,4913,3756,3558,5376,4773,3536,5922,4502,6097,5368

ABCE1_6_3836,3240,2743,4144,4000,6289,7628,6920,6497,1973,5536,3637,3823

ABCF1_6_3837,857,756,983,775,210,594,135,398,690,108,1690,593

ABCF2_6_3838,8145,8016,9882,10308,10349,11142,12363,8625,7386,13396,14394,9064

ABCG1_6_3839,841,724,674,1486,367,1589,2036,148,843,1437,1891,836

ABCG4_6_3840,4722,4774,5033,3926,3502,5606,3679,6932,2737,4353,9676,7565

ANXA11_6_3841,2304,2301,3108,2682,2550,4870,2325,2955,4175,2685,3883,3699

ANXA13_6_3842,1080,754,1717,1199,1114,1156,718,911,1775,1234,1694,604
ANXA2_6_3843,3288,2890,3839,3686,2918,2688,4411,4189,3467,4487,5159,34
93
ANXA6_6_3844,923,1587,800,829,1677,1157,349,1475,1887,917,1544,853
ANXA7_6_3845,10356,10978,13204,12404,9329,16060,12265,7914,11051,16389
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ATP11A_6_3846,473,678,903,381,741,1672,210,272,472,472,324,199
ATP11C_6_3847,1697,1673,1969,1841,2540,3817,1973,3201,964,1818,1907,20
58
ATP12A_6_3848,2805,2418,3401,3747,2534,2713,3754,3934,1771,4673,3815,5
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ATP1A1_6_3849,1380,1185,1486,1042,574,785,1412,1768,258,548,893,1612
ATP1B4_6_3850,96,63,48,122,0,0,110,1,168,0,105,1
ATP2A1_6_3851,406,853,887,784,596,733,565,744,225,1340,1854,385
ATP2A2_6_3852,2899,2446,3396,3440,1787,4007,2322,2560,1256,1582,4164,4
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ATP2C1_6_3857,1082,700,1182,1060,473,947,1037,4393,948,2814,1745,2289
ATP5A1_6_3858,1336,1318,1221,1032,1247,733,2611,1128,894,944,823,1220
ATP5C1_6_3859,2140,1410,2015,2297,3332,2454,1650,3456,1624,2885,1572,1
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ATP5D_6_3860,814,738,893,552,712,866,207,1338,920,208,852,981
ATP5E_6_3861,0,103,0,2,391,0,0,0,0,0,0,0
ATP5G1_6_3862,225,68,122,78,0,153,0,153,0,355,114,0
ATP5G2_6_3863,963,1105,726,521,541,1170,739,1674,1566,715,1064,811
ATP5G3_6_3864,1200,1633,1447,1247,1776,933,832,936,619,2457,2919,1469
ATP5H_6_3865,19256,17634,22198,22811,19478,19239,25832,23068,13239,191
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ATP5J_6_3866,7794,7195,10760,9376,11548,6857,10769,7031,7058,8198,7485
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ATP6V0B_6_3869,705,881,1372,935,944,637,2081,917,749,968,750,498
ATP6V0C_6_3870,492,476,386,611,1138,1109,248,1282,139,1574,966,456
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ATP8B2_6_3878,45,140,21,144,0,0,18,5,31,0,813,4
ATP8B3_6_3879,582,529,681,424,218,109,980,68,334,708,497,768
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SLC12A1_6_3885,2175,1755,2586,2395,1470,4719,815,737,1476,4002,3922,21
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SLC22A23_6_3913,3128,3363,3059,3101,1139,3779,3615,3439,3138,3407,2788,3196

SLC22A6_6_3914,4294,3010,4623,4648,3776,3439,4912,5597,2896,3261,5650,3625

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SLC22A8_6_3916,750,573,585,632,99,197,179,797,851,188,359,1522

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SLC25A11_6_3920,2643,2672,2733,3368,1367,3500,3639,5565,3013,2455,2175,3888

SLC25A13_6_3921,9580,9618,11350,10918,11660,12564,9573,9173,9902,12481,11590,6794

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SLC25A19_6_3923,778,412,930,706,1904,501,125,848,542,1392,236,152

SLC25A21_6_3924,1162,1329,1275,1591,402,1562,225,1563,814,1781,1604,1143

SLC25A22_6_3925,723,617,993,925,388,80,333,439,565,41,606,1694

SLC25A26_6_3926,488,292,542,382,1049,482,465,841,740,33,886,946

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55

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SLC05A1_6_4010,1932,1556,1743,2123,2705,1428,2437,3506,2709,2485,3388,
1383
ABCB5_6_4011,3234,3270,4708,3648,5174,3928,4953,3573,3046,4945,5213,46
84
ABCC6_6_4012,611,310,583,500,1564,403,416,503,676,438,1366,443
ATP1A4_6_4013,2030,1311,2485,2064,2183,2591,2000,3932,952,1255,1262,18
68
ATP5J2_6_4014,2786,2824,3792,3567,2718,2381,2884,5597,1864,3739,3867,3
640
ATP5S_6_4015,6164,5792,8099,7541,6779,7831,8474,6162,7585,6723,10044,6
079
ATP6V1G3_6_4016,6422,5306,7092,7425,7418,5647,10029,6752,3865,5059,106
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ATPIF1_6_4017,2080,2144,2333,2460,1677,659,2033,2605,2146,2196,1260,58
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SLC10A7_6_4018,1947,1205,2710,3001,1331,1278,1837,2894,1283,818,1877,3
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SLC28A1_6_4019,434,443,207,539,55,947,48,83,396,931,893,371
SLC30A5_6_4020,2721,1629,2635,2959,2686,2068,3408,1721,2342,1845,4041,
2873
SLC39A3_6_4021,481,685,617,510,31,368,718,1009,534,672,632,324
ABCA10_6_4022,9417,9677,10776,9816,7810,16203,14389,11511,7359,12819,1
2389,15044
ABCA13_6_4023,5940,5918,7135,7475,6393,8885,7453,9978,7315,7212,10424,
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ABCA1_6_4024,3262,3551,3179,3153,6017,2601,2288,2925,2557,2062,4794,20
44
ABCA3_6_4025,333,390,360,390,302,149,465,210,528,114,100,776
ABCA4_6_4026,6104,6361,8716,8713,8276,9018,10795,6964,10308,9115,12397
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ABCA6_6_4027,3045,2934,3756,3147,5760,4215,3547,3202,3019,5551,6525,26
71
ABCA7_6_4028,874,986,639,1101,1507,822,339,1662,716,2765,993,1565
ABCA8_6_4029,5485,6179,6679,6549,7733,9204,5617,8280,3857,7382,6907,60
09
ABCA9_6_4030,142,188,225,213,10,230,114,128,99,133,538,127
ABCB10_6_4031,1346,1505,1376,1223,462,959,1400,1000,1443,1113,1950,220
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ABCB11_6_4032,0,0,0,0,0,0,0,0,0,284,0,333,0
ABCB1_6_4033,5337,6282,5810,5893,5567,6250,5394,6774,4414,8659,7738,76
21
ABCB6_6_4034,1431,1305,1252,1417,1697,451,1579,911,601,892,1103,1427
ABCB7_6_4035,616,591,578,894,486,865,185,447,737,293,1512,454

ABCB8_6_4036,2094,1872,2705,2340,1778,1254,3258,3597,2900,2194,3297,22
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ABCC12_6_4037,2385,1544,2103,3130,4117,2677,1377,2707,2538,3591,4817,3
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ABCC2_6_4038,620,478,683,548,1830,99,213,43,60,175,112,1766
ABCC8_6_4039,3823,3293,5428,5068,2120,4875,4345,5150,3474,3094,4069,51
02
ABCD1_6_4040,857,981,1088,929,2163,1550,566,701,1527,1933,1557,2211
ABCD2_6_4041,2071,1464,1755,1899,1723,1426,1804,3250,1535,1490,3130,15
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ABCD4_6_4042,1438,1414,1866,1439,1299,1393,854,3253,235,715,1721,786
ABCF3_6_4043,1008,803,732,1059,634,567,1403,499,899,1616,1782,839
ABCG2_6_4044,1407,1834,1694,1469,1424,2094,1008,515,1528,1051,2028,185
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ABCG5_6_4045,4268,4033,5814,4856,6913,4370,5381,4582,1239,5376,3838,50
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ABCG8_6_4046,530,403,710,700,803,230,19,191,329,1199,88,800
ANXA10_6_4047,2914,2509,3031,4060,2443,2821,2518,3310,1703,4440,4586,1
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ANXA1_6_4048,1182,1891,959,1446,326,1633,874,466,2043,1106,716,1457
ANXA3_6_4049,3718,2710,4061,3755,2769,5148,2906,3663,1938,1698,6393,15
41
ANXA4_6_4050,598,857,858,891,1175,819,674,283,391,1744,347,562
ANXA5_6_4051,2938,2142,3661,3026,4471,5063,4415,7551,2101,4067,5308,44
17
ANXA8_6_4052,868,742,1238,1000,1040,888,1058,1166,583,1399,1297,1312
ANXA9_6_4053,428,303,468,610,378,0,0,410,592,0,449,0
ATP10A_6_4054,2325,3368,3459,4086,3049,5553,3419,4782,1989,4541,6145,2
734
ATP10B_6_4055,1055,809,1082,1381,942,2510,1562,2324,1520,1018,1407,169
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ATP10D_6_4056,3240,3371,4263,3395,2984,3904,2343,1991,2596,3448,3829,3
922
ATP11B_6_4057,7037,7074,8728,8540,7826,7462,7421,9773,5868,10164,12940
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ATP1A2_6_4058,960,596,494,946,47,1120,1568,1632,2075,1665,1118,411
ATP1A3_6_4059,4122,4488,3235,4113,1972,5648,6030,5654,1616,4243,5342,3
372
ATP1B1_6_4060,1479,1347,1670,1722,2348,1977,1698,1027,1356,918,2152,27
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ATP1B2_6_4061,1350,1506,1345,1086,1511,1033,1033,843,1440,913,1429,765
ATP1B3_6_4062,978,1427,1269,1005,979,1285,1218,875,1241,1073,2205,1856
ATP4A_6_4063,754,767,1014,760,456,1008,621,964,603,973,613,201
ATP4B_6_4064,227,280,332,341,154,279,255,33,249,557,1794,393
ATP5B_6_4065,387,637,787,797,1559,39,337,412,1092,540,2240,358
ATP5F1_6_4066,1040,943,1397,1066,163,1040,1820,1685,937,4312,1714,2583
ATP5I_6_4067,933,664,1161,437,1053,265,1497,1929,1177,225,1841,1116
ATP5L2_6_4068,3156,2347,2660,3148,2366,992,2186,3319,1652,3713,3352,37
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ATP5L_6_4069,3188,3231,3121,3158,5228,2867,2215,2393,3172,2571,3469,48

65

ATP50_6_4070,1494,1682,1677,1761,1097,2312,1600,2133,2191,1180,3442,1578

ATP6AP1_6_4071,939,1033,1503,1087,2322,5342,1431,1018,1241,495,2528,573

ATP6AP2_6_4072,2963,3580,4130,4273,2299,4597,3951,4474,1472,5482,7004,6030

ATP6V0A2_6_4073,2386,2916,3405,3012,1974,948,2077,2939,3490,4458,4771,3804

ATP6V0D1_6_4074,643,412,846,713,236,535,925,2812,895,472,622,2185

ATP6V0D2_6_4075,3051,2830,3260,3038,1063,2718,3299,4323,2098,2622,4274,3309

ATP6V0E1_6_4076,2058,1908,2195,2088,1398,2987,2881,2614,1753,2128,2471,3882

ATP6V1A_6_4077,2605,3305,3776,3810,3821,5649,5388,4053,5036,4669,2582,1986

ATP6V1B1_6_4078,1058,1139,1891,1846,1295,1684,1961,3422,2158,1305,2482,1114

ATP6V1B2_6_4079,1253,755,629,906,706,441,2930,804,1141,1092,655,236

ATP6V1C1_6_4080,214,79,52,76,0,0,0,0,0,96,0,0

ATP6V1D_6_4081,321,207,395,278,257,113,8,498,25,176,476,42

ATP6V1E2_6_4082,1323,978,991,773,1158,826,1025,569,424,1649,2203,54

ATP6V1G1_6_4083,641,558,938,932,482,448,406,737,1154,419,2417,1592

ATP7A_6_4084,4602,4369,5774,4873,5493,5104,4989,6315,5388,8313,5815,5667

ATP8A2_6_4085,2308,1868,2301,2630,1850,2629,2974,1822,3187,1852,4477,1091

ATP8B1_6_4086,755,739,1108,1307,578,816,1421,891,725,1627,467,1060

ATP8B4_6_4087,1415,2491,1679,2023,2853,1852,873,3255,1878,3058,1056,2712

ATP9A_6_4088,657,453,554,632,394,1310,1184,1413,230,610,1915,596

ATP9B_6_4089,6197,6008,6991,5953,3776,6696,5819,5992,3129,6340,6893,4139

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FLVCR1_6_4091,783,608,1030,1246,351,331,1491,1917,530,868,1520,1300

RHBG_6_4092,1007,399,706,495,255,288,1288,432,532,54,681,257

RHCG_6_4093,1911,1693,2335,1951,2028,3044,3113,2321,1423,2479,3249,1985

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SLC10A4_6_4096,1375,1188,1718,2149,635,1471,2086,2564,1679,1200,2160,1695

SLC10A5_6_4097,3414,2811,4203,3678,4175,3252,3646,1767,3439,5311,4309,4016

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SLC12A9_6_4102,600,430,381,406,295,14,827,41,63,38,713,20
SLC13A1_6_4103,2688,2666,2484,2795,2492,3557,2098,1177,1584,1147,3469,
1748
SLC13A4_6_4104,894,634,509,563,283,326,250,1010,183,435,1318,525
SLC15A1_6_4105,3212,2517,2756,3143,2693,3983,3397,3636,2464,3110,2101,
2977
SLC15A3_6_4106,367,154,442,233,1,0,1039,454,0,1502,0,0
SLC15A4_6_4107,1219,1065,1297,1455,376,674,537,465,2495,1197,1123,966
SLC16A10_6_4108,1694,1802,1665,1711,2986,1254,1277,2252,3264,2920,2483
,1630
SLC16A11_6_4109,787,702,884,778,509,404,1055,403,85,1148,972,919
SLC16A12_6_4110,3151,3418,3828,4468,4618,4394,3300,4927,4152,4109,4640
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SLC16A5_6_4112,266,106,329,216,514,163,577,160,43,89,210,67
SLC16A7_6_4113,11165,11547,11335,12018,10884,12555,14978,13907,9753,91
57,13306,10596
SLC16A8_6_4114,497,759,640,656,391,692,681,672,258,312,467,965
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SLC17A4_6_4116,1086,565,1220,1220,694,2703,1297,1020,1596,1507,1333,15
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SLC17A5_6_4117,1610,1185,1960,1571,2335,548,552,1206,776,2195,980,2239
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SLC19A2_6_4122,1338,1932,1229,1698,1035,994,1798,1400,861,1890,3487,11
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SLC19A3_6_4123,1574,1571,2480,1903,1931,2932,3249,3956,1283,1518,2245,
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SLC1A1_6_4124,1640,1402,1755,1962,1085,1768,1420,2244,859,842,2956,107
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SLC1A6_6_4125,477,591,489,484,770,16,59,698,106,622,967,1195
SLC1A7_6_4126,499,333,534,487,141,734,940,1815,365,197,555,28
SLC20A1_6_4127,4639,4013,3546,3763,4688,5323,5053,3928,3808,3769,2214,
3555
SLC20A2_6_4128,1191,912,959,1532,894,565,1253,2233,1164,430,732,1424
SLC22A10_6_4129,1331,1666,1159,1010,557,1416,1295,1600,850,815,3465,12
66
SLC22A11_6_4130,670,966,1574,1016,1242,1254,2701,1248,538,1267,642,203
2
SLC22A13_6_4131,739,747,949,1415,585,1974,2190,2327,829,373,1221,897
SLC22A14_6_4132,1121,770,1353,1477,1050,577,293,2407,2475,1441,1269,24
6

SLC22A15_6_4133,597,775,580,1277,414,772,133,1091,851,579,1056,292
SLC22A16_6_4134,1609,1077,915,1627,1100,2783,1555,1548,544,426,997,456
SLC22A18AS_6_4135,109,125,515,345,568,204,92,99,597,392,8,204
SLC22A2_6_4136,2897,3403,3311,3753,5265,1342,3158,6225,4028,4477,6079,
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SLC22A4_6_4138,391,652,776,1098,1003,290,2247,170,218,938,731,893
SLC22A5_6_4139,316,306,724,528,22,223,582,880,440,605,134,264
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349
SLC24A5_6_4143,2360,3104,3170,3047,4271,2423,5523,2860,3291,3220,4877,
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SLC24A6_6_4144,1248,914,1249,1275,531,227,1129,225,1353,2706,2801,1007
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65
SLC25A15_6_4147,675,722,895,803,582,561,1136,1199,824,2278,1356,569
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SLC25A20_6_4152,763,1374,768,1194,1300,714,1489,1755,838,1530,1905,705
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3269

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956,24124,16804
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ABCA2_6_4271,1067,1707,1262,1423,445,237,1473,995,591,1317,2424,1443
ABCA5_6_4272,1046,1239,443,747,1030,752,1113,1044,1064,688,1452,69
ABCB4_6_4273,1950,2331,2543,3039,1810,3350,1873,3181,1439,2068,3364,23
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ABCB9_6_4274,1728,1318,1788,2258,1297,2033,2380,223,1461,1085,1775,491
ABCC10_6_4275,166,104,383,225,218,8,24,7,122,57,90,72
ABCC11_6_4276,1320,1818,2139,1713,1019,1440,1101,2293,3231,1804,1286,1
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ABCC3_6_4278,745,668,886,1332,1755,252,1517,674,561,872,913,863
ABCC4_6_4279,606,935,594,750,1,674,28,469,25,33,892,150
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ABCD3_6_4282,2186,1896,2136,2300,4165,1737,3682,3405,2293,1911,2331,16
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ABCE1_6_4283,2291,1997,2862,2548,3779,3763,5284,3502,2141,3265,4868,25
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ABCF1_6_4284,99,118,181,150,91,6,548,334,15,216,78,213
ABCF2_6_4285,2101,1933,2844,2067,1482,3783,2690,2285,1402,1884,4246,82
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ABCG4_6_4287,2484,2665,2781,3688,2677,1275,1855,3329,3268,2132,2101,43
46
ANXA11_6_4288,2971,3873,3315,3096,3917,3390,2691,2894,5167,4796,3705,3
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ANXA13_6_4289,1265,1587,1865,1595,2702,745,1181,1074,585,1100,1382,183
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ANXA2_6_4290,2287,1799,3477,2895,1798,2252,2210,3852,1234,1580,2701,31
54
ANXA6_6_4291,809,892,788,781,1110,608,1035,903,1634,418,1255,1079
ANXA7_6_4292,1210,1283,1303,783,786,2516,733,841,29,1706,1229,3144
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ATP11C_6_4294,2505,3168,3690,2390,2355,2352,3024,2826,1415,2510,3571,3
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ATP12A_6_4295,1660,2007,1948,1719,2782,2377,635,1690,1852,1825,2299,13
91

ATP1A1_6_4296,2303,1927,1996,2650,1957,3350,3105,3364,2532,3065,2587,3
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ATP2A1_6_4298,314,203,408,353,76,299,845,446,63,884,44,588
ATP2A2_6_4299,1886,1725,2369,1798,2338,1274,1758,2803,761,1775,844,938
ATP2A3_6_4300,2430,2037,2215,1888,4459,4350,2467,1360,2956,3169,4518,1
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ATP2B1_6_4301,1375,1142,1456,1390,2455,1860,1304,1698,1115,1675,1563,2
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ATP2B3_6_4302,931,973,1500,1055,1112,1194,1898,620,1638,1126,1136,1113
ATP2B4_6_4303,1531,1856,2687,1479,3357,2890,1761,1968,2643,1633,2578,1
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ATP2C1_6_4304,1567,1630,2191,2412,1293,1066,1008,1435,2206,1186,3076,2
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ATP5A1_6_4305,1656,2096,2008,1998,1249,1232,1211,1533,1355,1444,3235,1
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ATP5C1_6_4306,3629,4095,6146,5350,4555,3385,3275,3343,2329,2490,4936,5
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ATP5D_6_4307,346,211,408,624,503,552,607,38,1046,555,438,29
ATP5E_6_4308,0,0,0,0,0,0,0,0,0,0,0,1
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ATP5G2_6_4310,3229,3270,3784,3479,2190,4915,2345,2987,2243,3990,3708,3
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ATP5G3_6_4311,1878,1510,1490,1677,1478,2206,827,1570,917,1850,1724,132
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ATP5J_6_4313,6540,6213,6227,6903,5793,3845,4528,8616,6288,10011,10603,
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ATP6V0A1_6_4314,512,636,362,373,284,569,147,271,3,980,754,527
ATP6V0A4_6_4315,2263,2133,1945,2914,3316,1511,1953,2300,1726,1977,4389
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ATP6V0B_6_4316,519,937,735,446,904,446,598,497,0,644,506,1621
ATP6V0C_6_4317,476,543,593,936,1126,510,914,1806,19,273,528,727
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ATP6V1G2_6_4321,1609,1643,1929,2028,792,1378,2279,2136,965,3419,2268,1
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489
SLC13A2_6_4338,409,695,1246,770,607,151,70,668,421,383,1557,1101
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ABCD1_6_4474,2773,3061,2915,3230,4303,2321,2223,2151,2264,3781,3852,26
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78
GC_6_4502,91,137,383,342,1949,128,2016,426,84,44,289,341
GC_6_4503,170,304,380,295,1178,424,27,849,1014,116,521,372
GC_6_4504,6644,7017,8102,6430,10270,10691,9757,9389,7884,6770,8461,600
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GC_6_4505,814,512,816,619,55,368,51,519,187,0,289,5
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