

Supplemental Table 1. PMN genes differentially expressed following interaction with F.

| Affymatrix probeset | Gene title | Gene symbol | Entrez |
|---------------------|--|-------------------|--------|
| 240420_at | arylacetamide deacetylase-like 2 | AADACL2 | 344752 |
| 228041_at | 2-aminoadipic 6-semialdehyde dehydrogenase | AASDH | 132949 |
| 202169_s_at | aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase | AASDHPPT | 60496 |
| 209165_at | apoptosis antagonizing transcription factor | AATF | 26574 |
| 205986_at | apoptosis-associated tyrosine kinase | AATK | 9625 |
| 209459_s_at | 4-aminobutyrate aminotransferase | ABAT | 18 |
| 209460_at | 4-aminobutyrate aminotransferase | ABAT | 18 |
| 203505_at | ATP-binding cassette, sub-family A (ABC1), member 1 | ABCA1 | 19 |
| 203504_s_at | ATP-binding cassette, sub-family A (ABC1), member 1 | ABCA1 | 19 |
| 220159_at | ATP-binding cassette, sub-family A (ABC1), member 11 (pseudogene) | ABCA11 | 79963 |
| 241705_at | ATP-binding cassette, sub-family A (ABC1), member 5 | ABCA5 | 23461 |
| 242541_at | ATP-binding cassette, sub-family A (ABC1), member 9 | ABCA9 | 10350 |
| 223320_at | ATP-binding cassette, sub-family B (MDR/TAP), member 10 | ABCB10 | 23456 |
| 1570505_at | ATP-binding cassette, sub-family B (MDR/TAP), member 4 | ABCB4 | 5244 |
| 215873_x_at | ATP-binding cassette, sub-family C (CFTR/MRP), member 10 | ABCC10 | 89845 |
| 1552582_at | ATP-binding cassette, sub-family C (CFTR/MRP), member 13 | ABCC13 | 150000 |
| 214979_at | ATP-binding cassette, sub-family C (CFTR/MRP), member 3 | ABCC3 | 8714 |
| 1555039_a_at | ATP-binding cassette, sub-family C (CFTR/MRP), member 4 | ABCC4 | 10257 |
| 226363_at | ATP-binding cassette, sub-family C (CFTR/MRP), member 5 | ABCC5 | 10057 |
| 1558460_at | ATP-binding cassette, sub-family C (CFTR/MRP), member 5 | ABCC5 | 10057 |
| 209380_s_at | ATP-binding cassette, sub-family C (CFTR/MRP), member 5 | ABCC5 | 10057 |
| 1557374_at | ATP-binding cassette, sub-family C (CFTR/MRP), member 9 | ABCC9 | 10060 |
| 1554878_a_at | ATP-binding cassette, sub-family D (ALD), member 3 | ABCD3 | 5825 |
| 202850_at | ATP-binding cassette, sub-family D (ALD), member 3 | ABCD3 | 5825 |
| 201872_s_at | ATP-binding cassette, sub-family E (OABP), member 1 /// similar to ATP-binding | ABCE1 /// LOC6471 | 6059 |
| 201873_s_at | ATP-binding cassette, sub-family E (OABP), member 1 /// similar to ATP-binding | ABCE1 /// LOC6471 | 6059 |
| 200045_at | ATP-binding cassette, sub-family F (GCN20), member 1 | ABCF1 | 23 |
| 204567_s_at | ATP-binding cassette, sub-family G (WHITE), member 1 | ABCG1 | 9619 |
| 209735_at | ATP-binding cassette, sub-family G (WHITE), member 2 | ABCG2 | 9429 |
| 222697_s_at | abhydrolase domain containing 10 | ABHD10 | 55347 |
| 218633_x_at | abhydrolase domain containing 10 | ABHD10 | 55347 |
| 228123_s_at | abhydrolase domain containing 12 | ABHD12 | 26090 |
| 234993_at | abhydrolase domain containing 13 | ABHD13 | 84945 |
| 235348_at | abhydrolase domain containing 13 | ABHD13 | 84945 |
| 63825_at | abhydrolase domain containing 2 | ABHD2 | 11057 |
| 225337_at | abhydrolase domain containing 2 | ABHD2 | 11057 |
| 221815_at | abhydrolase domain containing 2 | ABHD2 | 11057 |
| 87100_at | abhydrolase domain containing 2 | ABHD2 | 11057 |
| 213805_at | abhydrolase domain containing 5 | ABHD5 | 51099 |
| 218739_at | abhydrolase domain containing 5 | ABHD5 | 51099 |
| 225098_at | abl interactor 2 | ABI2 | 10152 |
| 202123_s_at | v-abl Abelson murine leukemia viral oncogene homolog 1 | ABL1 | 25 |
| 231907_at | v-abl Abelson murine leukemia viral oncogene homolog 2 (arg, Abelson-related) | ABL2 | 27 |
| 200965_s_at | actin binding LIM protein 1 | ABLIM1 | 3983 |
| 1552732_at | actin-binding Rho activating protein | ABRA | 137735 |
| 218405_at | activator of basal transcription 1 | ABT1 | 29777 |
| 229164_s_at | ankyrin repeat and BTB (POZ) domain containing 1 | ABTB1 | 80325 |
| 226442_at | ankyrin repeat and BTB (POZ) domain containing 1 | ABTB1 | 80325 |
| 228848_at | ankyrin repeat and BTB (POZ) domain containing 1 | ABTB1 | 80325 |
| 43427_at | acetyl-Coenzyme A carboxylase beta | ACACB | 32 |
| 221669_s_at | acyl-Coenzyme A dehydrogenase family, member 8 | ACAD8 | 27034 |
| 202502_at | acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain | ACADM | 34 |
| 226030_at | acyl-Coenzyme A dehydrogenase, short/branched chain | ACADSB | 36 |
| 207692_s_at | aggrecan | ACAN | 176 |
| 209608_s_at | acetyl-Coenzyme A acetyltransferase 2 (acetoacetyl Coenzyme A thiolase) | ACAT2 | 39 |
| 202324_s_at | acyl-Coenzyme A binding domain containing 3 | ACBD3 | 64746 |
| 202323_s_at | acyl-Coenzyme A binding domain containing 3 | ACBD3 | 64746 |
| 225663_at | acyl-Coenzyme A binding domain containing 5 | ACBD5 | 91452 |
| 1568877_a_at | acyl-Coenzyme A binding domain containing 5 | ACBD5 | 91452 |

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| 1564504_at | amiloride-sensitive cation channel 5, intestinal | <i>ACCN5</i> | 51802 |
| 204617_s_at | adrenocortical dysplasia homolog (mouse) | <i>ACD</i> | 65057 |
| 207071_s_at | aconitase 1, soluble | <i>ACO1</i> | 48 |
| 216103_at | acyl-CoA thioesterase 11 | <i>ACOT11</i> | 26027 |
| 208002_s_at | acyl-CoA thioesterase 7 | <i>ACOT7</i> | 11332 |
| 236514_at | Acyl-CoA thioesterase 8 | <i>ACOT8</i> | 10005 |
| 204212_at | acyl-CoA thioesterase 8 | <i>ACOT8</i> | 10005 |
| 227962_at | acyl-Coenzyme A oxidase 1, palmitoyl | <i>ACOX1</i> | 51 |
| 202767_at | acid phosphatase 2, lysosomal | <i>ACP2</i> | 53 |
| 218795_at | acid phosphatase 6, lysophosphatidic | <i>ACP6</i> | 51205 |
| 242270_at | Acid phosphatase 6, lysophosphatidic | <i>ACP6</i> | --- |
| 226925_at | acid phosphatase-like 2 | <i>ACPL2</i> | 92370 |
| 204393_s_at | acid phosphatase, prostate | <i>ACPP</i> | 55 |
| 241715_x_at | acid phosphatase, testicular | <i>ACPT</i> | 93650 |
| 207969_x_at | acrosomal vesicle protein 1 | <i>ACRV1</i> | 56 |
| 207973_x_at | acrosomal vesicle protein 1 | <i>ACRV1</i> | 56 |
| 201963_at | acyl-CoA synthetase long-chain family member 1 | <i>ACSL1</i> | 2180 |
| 207275_s_at | acyl-CoA synthetase long-chain family member 1 | <i>ACSL1</i> | 2180 |
| 201660_at | Full-length cDNA clone CS0DF008YJ12 of Fetal brain of Homo sapiens (human) / | <i>ACSL3</i> | 2181 |
| 201661_s_at | acyl-CoA synthetase long-chain family member 3 | <i>ACSL3</i> | 2181 |
| 222592_s_at | acyl-CoA synthetase long-chain family member 5 | <i>ACSL5</i> | 51703 |
| 202666_s_at | actin-like 6A | <i>ACTL6A</i> | 86 |
| 203864_s_at | actinin, alpha 2 | <i>ACTN2</i> | 88 |
| 200601_at | actinin, alpha 4 | <i>ACTN4</i> | 81 |
| 222230_s_at | actin-related protein 10 homolog (<i>S. cerevisiae</i>) | <i>ACTR10</i> | 55860 |
| 1554390_s_at | ARP2 actin-related protein 2 homolog (yeast) | <i>ACTR2</i> | 10097 |
| 218395_at | ARP6 actin-related protein 6 homolog (yeast) | <i>ACTR6</i> | 64431 |
| 213198_at | activin A receptor, type IB | <i>ACVR1B</i> | 91 |
| 1552519_at | activin A receptor, type IC | <i>ACVR1C</i> | 130399 |
| 205327_s_at | activin A receptor, type IIA | <i>ACVR2A</i> | 92 |
| 228416_at | activin A receptor, type IIA | <i>ACVR2A</i> | 92 |
| 225421_at | aminoacylase 1-like 2 | <i>ACY1L2</i> | 135293 |
| 231448_at | adenosine deaminase domain containing 1 (testis-specific) | <i>ADAD1</i> | 132612 |
| 205745_x_at | ADAM metallopeptidase domain 17 (tumor necrosis factor, alpha, converting er | <i>ADAM17</i> | 6868 |
| 205746_s_at | ADAM metallopeptidase domain 17 (tumor necrosis factor, alpha, converting er | <i>ADAM17</i> | 6868 |
| 1568970_at | ADAM metallopeptidase domain 18 | <i>ADAM18</i> | 8749 |
| 221128_at | ADAM metallopeptidase domain 19 (meltrin beta) | <i>ADAM19</i> | 8728 |
| 209765_at | ADAM metallopeptidase domain 19 (meltrin beta) | <i>ADAM19</i> | 8728 |
| 207665_at | ADAM metallopeptidase domain 21 /// ADAM metallopeptidase domain 21 pse | <i>ADAM21</i> /// <i>ADAM</i> | 145241 /// { |
| 1555024_at | ADAM metallopeptidase domain 22 | <i>ADAM22</i> | 53616 |
| 208268_at | ADAM metallopeptidase domain 28 | <i>ADAM28</i> | 10863 |
| 202381_at | ADAM metallopeptidase domain 9 (meltrin gamma) | <i>ADAM9</i> | 8754 |
| 1555326_a_at | ADAM metallopeptidase domain 9 (meltrin gamma) | <i>ADAM9</i> | 8754 |
| 1570042_a_at | ADAM metallopeptidase domain 9 (meltrin gamma) | <i>ADAM9</i> | 8754 |
| 206134_at | ADAM-like, decysin 1 | <i>ADAMDEC1</i> | 27299 |
| 230040_at | ADAM metallopeptidase with thrombospondin type 1 motif, 18 | <i>ADAMTS18</i> | 170692 |
| 220717_at | ADAM metallopeptidase with thrombospondin type 1 motif, 20 | <i>ADAMTS20</i> | 80070 |
| 214913_at | ADAM metallopeptidase with thrombospondin type 1 motif, 3 | <i>ADAMTS3</i> | 9508 |
| 219935_at | ADAM metallopeptidase with thrombospondin type 1 motif, 5 (aggrecanase-2) | <i>ADAMTS5</i> | 11096 |
| 235368_at | ADAM metallopeptidase with thrombospondin type 1 motif, 5 (aggrecanase-2) | <i>ADAMTS5</i> | 11096 |
| 229357_at | ADAM metallopeptidase with thrombospondin type 1 motif, 5 (aggrecanase-2) | <i>ADAMTS5</i> | 11096 |
| 1570351_at | ADAM metallopeptidase with thrombospondin type 1 motif, 6 | <i>ADAMTS6</i> | 11174 |
| 220287_at | ADAM metallopeptidase with thrombospondin type 1 motif, 9 | <i>ADAMTS9</i> | 56999 |
| 233785_at | ADAM metallopeptidase with thrombospondin type 1 motif, 9 | <i>ADAMTS9</i> | 56999 |
| 213974_at | ADAMTS-like 3 | <i>ADAMTSL3</i> | 57188 |
| 236817_at | adenosine deaminase, tRNA-specific 2, TAD2 homolog (<i>S. cerevisiae</i>) | <i>ADAT2</i> | 134637 |
| 226690_at | Adenylate cyclase activating polypeptide 1 (pituitary) receptor type I | <i>ADCYAP1R1</i> | 117 |
| 209122_at | adipose differentiation-related protein | <i>ADFP</i> | 123 |
| 223781_x_at | alcohol dehydrogenase 4 (class II), pi polypeptide | <i>ADH4</i> | 127 |
| 208848_at | alcohol dehydrogenase 5 (class III), chi polypeptide | <i>ADH5</i> | 128 |
| 208847_s_at | alcohol dehydrogenase 5 (class III), chi polypeptide | <i>ADH5</i> | 128 |
| 217761_at | acireductone dioxygenase 1 | <i>ADI1</i> | 55256 |
| 222400_s_at | acireductone dioxygenase 1 | <i>ADI1</i> | 55256 |

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|--------------|---|---------------------------|--------------|
| 217748_at | adiponectin receptor 1 | <i>ADIPOR1</i> | 51094 |
| 201346_at | adiponectin receptor 2 | <i>ADIPOR2</i> | 79602 |
| 204120_s_at | adenosine kinase | <i>ADK</i> | 132 |
| 204119_s_at | adenosine kinase | <i>ADK</i> | 132 |
| 202912_at | adrenomedullin | <i>ADM</i> | 133 |
| 226426_at | activity-dependent neuroprotector homeobox | <i>ADNP</i> | 23394 |
| 205013_s_at | adenosine A2a receptor | <i>ADORA2A</i> | 135 |
| 205891_at | adenosine A2b receptor | <i>ADORA2B</i> | 136 |
| 206171_at | adenosine A3 receptor | <i>ADORA3</i> | 140 |
| 224455_s_at | ADP-dependent glucokinase | <i>ADPGK</i> | 83440 |
| 223097_at | ADP-ribosylhydrolase like 2 | <i>ADPRHL2</i> | 54936 |
| 206170_at | adrenergic, beta-2-, receptor, surface | <i>ADRB2</i> | 154 |
| 204183_s_at | adrenergic, beta, receptor kinase 2 | <i>ADRBK2</i> | 157 |
| 201281_at | adhesion regulating molecule 1 | <i>ADRM1</i> | 11047 |
| 202144_s_at | adenylosuccinate lyase | <i>ADSL</i> | 158 |
| 221761_at | adenylosuccinate synthase | <i>ADSS</i> | 159 |
| 235184_at | AE binding protein 2 | <i>AEBP2</i> | 121536 |
| 225889_at | AE binding protein 2 | <i>AEBP2</i> | 121536 |
| 201924_at | AF4/FMR2 family, member 1 | <i>AFF1</i> | 4299 |
| 225229_at | AF4/FMR2 family, member 4 | <i>AFF4</i> | 27125 |
| 232864_s_at | AF4/FMR2 family, member 4 | <i>AFF4</i> | 27125 |
| 1555436_a_at | AF4/FMR2 family, member 4 | <i>AFF4</i> | 27125 |
| 1557820_at | AFG3 ATPase family gene 3-like 2 (yeast) | <i>AFG3L2</i> | 10939 |
| 222472_at | aftiphilin | <i>AFTPH</i> | 54812 |
| 204332_s_at | aspartylglucosaminidase | <i>AGA</i> | 175 |
| 204333_s_at | aspartylglucosaminidase | <i>AGA</i> | 175 |
| 1553447_at | ATP/GTP binding protein-like 1 | <i>AGBL1</i> | 123624 |
| 208042_at | angiogenic factor with G patch and FHA domains 1 | <i>AGGF1</i> | 55109 |
| 203566_s_at | amylo-1, 6-glucosidase, 4-alpha-glucanotransferase (glycogen debranching enzy | <i>AGL</i> | 178 |
| 219792_at | agmatine ureohydrolase (agmatinase) | <i>AGMAT</i> | 79814 |
| 223184_s_at | 1-acylglycerol-3-phosphate O-acyltransferase 3 | <i>AGPAT3</i> | 56894 |
| 232007_at | 1-acylglycerol-3-phosphate O-acyltransferase 5 (lysophosphatidic acid acyltransf | <i>AGPAT5</i> | 55326 |
| 224776_at | 1-acylglycerol-3-phosphate O-acyltransferase 6 (lysophosphatidic acid acyltransf | <i>AGPAT6</i> | 137964 |
| 225114_at | alkylglycerone phosphate synthase | <i>AGPS</i> | 8540 |
| 225113_at | Alkylglycerone phosphate synthase | <i>AGPS</i> | 8540 |
| 204500_s_at | ATP/GTP binding protein 1 | <i>AGTPBP1</i> | 23287 |
| 205357_s_at | angiotensin II receptor, type 1 | <i>AGTR1</i> | 185 |
| 225059_at | angiotensin II receptor-associated protein | <i>AGTRAP</i> | 57085 |
| 1555736_a_at | angiotensin II receptor-associated protein | <i>AGTRAP</i> | 57085 |
| 226519_s_at | alanine-glyoxylate aminotransferase 2-like 2 | <i>AGXT2L2</i> | 85007 |
| 232488_at | alanine-glyoxylate aminotransferase 2-like 2 | <i>AGXT2L2</i> | 85007 |
| 214766_s_at | AT hook containing transcription factor 1 | <i>AHCTF1</i> | 25909 |
| 200903_s_at | S-adenosylhomocysteine hydrolase | <i>AHCY</i> | 191 |
| 200850_s_at | S-adenosylhomocysteine hydrolase-like 1 | <i>AHCYL1</i> | 10768 |
| 221569_at | Abelson helper integration site 1 | <i>AHI1</i> | 54806 |
| 229354_at | aryl-hydrocarbon receptor repressor | <i>AHRR</i> | 10016 /// 5; |
| 206513_at | absent in melanoma 2 | <i>AIM2</i> | 9447 |
| 219977_at | aryl hydrocarbon receptor interacting protein-like 1 | <i>AIPL1</i> | 23746 |
| 212175_s_at | adenylate kinase 2 | <i>AK2</i> | 204 |
| 208967_s_at | adenylate kinase 2 | <i>AK2</i> | 204 |
| 224655_at | adenylate kinase 3 | <i>AK3</i> | 50808 |
| 224151_s_at | adenylate kinase 3 | <i>AK3</i> | 50808 |
| 204348_s_at | adenylate kinase 3-like 1 /// adenylate kinase 3-like 2 /// similar to Adenylate ki | <i>AK3L1 /// AK3L2 //</i> | 205 /// 6456 |
| 204347_at | adenylate kinase 3-like 2 | <i>AK3L2</i> | 205 /// 6456 |
| 225342_at | adenylate kinase 3-like 2 | <i>AK3L2</i> | 205 /// 6456 |
| 205045_at | A kinase (PRKA) anchor protein 10 | <i>AKAP10</i> | 11216 |
| 236007_at | A kinase (PRKA) anchor protein 10 | <i>AKAP10</i> | 11216 |
| 236006_s_at | A kinase (PRKA) anchor protein 10 | <i>AKAP10</i> | 11216 |
| 203156_at | A kinase (PRKA) anchor protein 11 | <i>AKAP11</i> | 11215 |
| 215336_at | A kinase (PRKA) anchor protein 11 | <i>AKAP11</i> | 11215 |
| 209534_x_at | A kinase (PRKA) anchor protein 13 | <i>AKAP13</i> | 11214 |
| 222024_s_at | A kinase (PRKA) anchor protein 13 | <i>AKAP13</i> | 11214 |
| 205359_at | A kinase (PRKA) anchor protein 6 | <i>AKAP6</i> | 9472 |

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|--------------|--|--------------------------------|--------------|
| 224900_at | ankyrin repeat and FYVE domain containing 1 | ANKFY1 | 51479 |
| 219081_at | ankyrin repeat and KH domain containing 1 | ANKHD1 | 54882 /// 86 |
| 233292_s_at | ankyrin repeat and KH domain containing 1 /// MASK-4E-BP3 alternate reading | ANKHD1 /// MASK-404734 /// 86 | |
| 208772_at | ankyrin repeat and KH domain containing 1 /// MASK-4E-BP3 alternate reading | ANKHD1 /// MASK-404734 /// 86 | |
| 208773_s_at | ankyrin repeat and KH domain containing 1 /// MASK-4E-BP3 alternate reading | ANKHD1 /// MASK-404734 /// 86 | |
| 224687_at | ankyrin repeat and IBR domain containing 1 | ANKIB1 | 54467 |
| 224682_at | ankyrin repeat and IBR domain containing 1 | ANKIB1 | 54467 |
| 239116_at | Ankyrin repeat domain 10 | ANKRD10 | 55608 |
| 228356_at | ankyrin repeat domain 11 | ANKRD11 | 29123 |
| 238538_at | ankyrin repeat domain 11 | ANKRD11 | 29123 |
| 216563_at | Ankyrin repeat domain 12 | ANKRD12 | 23253 |
| 212289_at | ankyrin repeat domain 12 | ANKRD12 | 23253 |
| 216550_x_at | ankyrin repeat domain 12 | ANKRD12 | 23253 |
| 212286_at | ankyrin repeat domain 12 | ANKRD12 | 23253 |
| 227375_at | ankyrin repeat domain 13C | ANKRD13C | 81573 |
| 223418_x_at | ankyrin repeat domain 13C | ANKRD13C | 81573 |
| 1554471_a_at | ankyrin repeat domain 13C | ANKRD13C | 81573 |
| 238597_at | Ankyrin repeat domain 13C | ANKRD13C | 81573 |
| 38447_at | ankyrin repeat domain 13 family, member D | ANKRD13D | 156 |
| 225852_at | ankyrin repeat domain 17 | ANKRD17 | 26057 |
| 1559406_at | ankyrin repeat domain 18A | ANKRD18A | 253650 |
| 1570255_s_at | ankyrin repeat domain 20 family, member A1 /// ankyrin repeat domain 20 fam | ANKRD20A1 /// AN 375010 /// 86 | |
| 224012_at | ankyrin repeat domain 20 family, member A1 /// ankyrin repeat domain 20 fam | ANKRD20A1 /// AN 441425 /// 86 | |
| 205705_at | ankyrin repeat domain 26 | ANKRD26 | 22852 |
| 1561079_at | ankyrin repeat domain 28 | ANKRD28 | 23243 |
| 226025_at | ankyrin repeat domain 28 | ANKRD28 | 23243 |
| 223864_at | ankyrin repeat domain 30A | ANKRD30A | 91074 |
| 223542_at | ankyrin repeat domain 32 | ANKRD32 | 84250 |
| 242209_at | ankyrin repeat domain 33 | ANKRD33 | 341405 |
| 227337_at | ankyrin repeat domain 37 | ANKRD37 | 353322 |
| 223532_at | ankyrin repeat domain 39 | ANKRD39 | 51239 |
| 235777_at | ankyrin repeat domain 44 | ANKRD44 | 91526 |
| 235778_s_at | ankyrin repeat domain 44 | ANKRD44 | 91526 |
| 212731_at | ankyrin repeat domain 46 | ANKRD46 | 157567 |
| 225731_at | ankyrin repeat domain 50 | ANKRD50 | 57182 |
| 220112_at | ankyrin repeat domain 55 | ANKRD55 | 79722 |
| 204672_s_at | ankyrin repeat domain 6 | ANKRD6 | 22881 |
| 230972_at | ankyrin repeat domain 9 | ANKRD9 | 122416 |
| 218274_s_at | ankyrin repeat and zinc finger domain containing 1 | ANKZF1 | 55139 |
| 222608_s_at | anillin, actin binding protein | ANLN | 54443 |
| 221505_at | acidic (leucine-rich) nuclear phosphoprotein 32 family, member E | ANP32E | 81611 |
| 208103_s_at | acidic (leucine-rich) nuclear phosphoprotein 32 family, member E | ANP32E | 81611 |
| 227660_at | anthrax toxin receptor 1 | ANTXR1 | 84168 |
| 225524_at | anthrax toxin receptor 2 | ANTXR2 | 118429 |
| 201012_at | annexin A1 | ANXA1 | 301 |
| 206200_s_at | annexin A11 | ANXA11 | 311 |
| 228727_at | annexin A11 | ANXA11 | 311 |
| 209369_at | annexin A3 | ANXA3 | 306 |
| 201302_at | annexin A4 | ANXA4 | 307 |
| 200782_at | annexin A5 | ANXA5 | 308 |
| 209860_s_at | annexin A7 | ANXA7 | 310 |
| 205639_at | acyloxyacyl hydrolase (neutrophil) | AOAH | 313 |
| 207064_s_at | amine oxidase, copper containing 2 (retina-specific) | AOC2 | 314 |
| 204894_s_at | amine oxidase, copper containing 3 (vascular adhesion protein 1) | AOC3 | 8639 |
| 203350_at | adaptor-related protein complex 1, gamma 1 subunit | AP1G1 | 164 |
| 1553165_at | AP1 gamma subunit binding protein 1 | AP1GBP1 | 11276 |
| 223025_s_at | adaptor-related protein complex 1, mu 1 subunit | AP1M1 | 8907 |
| 223024_at | adaptor-related protein complex 1, mu 1 subunit | AP1M1 | 8907 |
| 230413_s_at | Adaptor-related protein complex 1, sigma 2 subunit | AP1S2 | --- |
| 203300_x_at | adaptor-related protein complex 1, sigma 2 subunit | AP1S2 | 8905 |
| 230264_s_at | adaptor-related protein complex 1, sigma 2 subunit | AP1S2 | 8905 |
| 203299_s_at | adaptor-related protein complex 1, sigma 2 subunit /// similar to adaptor-relate | AP1S2 /// LOC6536 | 8905 |
| 1555731_a_at | adaptor-related protein complex 1, sigma 3 subunit | AP1S3 | 130340 |

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|--------------|---|--------------------|--------------|
| 1555733_s_at | adaptor-related protein complex 1, sigma 3 subunit | AP1S3 | 130340 |
| 234068_s_at | adaptor-related protein complex 2, alpha 1 subunit | AP2A1 | 160 |
| 212159_x_at | adaptor-related protein complex 2, alpha 2 subunit | AP2A2 | 161 |
| 203141_s_at | adaptor-related protein complex 3, beta 1 subunit | AP3B1 | 8546 |
| 206592_s_at | adaptor-related protein complex 3, delta 1 subunit | AP3D1 | 8943 |
| 208710_s_at | adaptor-related protein complex 3, delta 1 subunit | AP3D1 | 8943 |
| 222516_at | adaptor-related protein complex 3, mu 1 subunit | AP3M1 | 26985 |
| 1569053_at | adaptor-related protein complex 3, mu 2 subunit | AP3M2 | 10947 |
| 202442_at | adaptor-related protein complex 3, sigma 1 subunit | AP3S1 | 1176 |
| 202398_at | adaptor-related protein complex 3, sigma 2 subunit | AP3S2 | 10239 |
| 202399_s_at | adaptor-related protein complex 3, sigma 2 subunit /// chromosome 15 open re | AP3S2 /// C15orf38 | 10239 |
| 231714_s_at | adaptor-related protein complex 4, beta 1 subunit | AP4B1 | 10717 |
| 228164_at | adaptor-related protein complex 4, epsilon 1 subunit | AP4E1 | 23431 |
| 215148_s_at | amyloid beta (A4) precursor protein-binding, family A, member 3 (X11-like 2) | APBA3 | 9546 |
| 205146_x_at | amyloid beta (A4) precursor protein-binding, family A, member 3 (X11-like 2) | APBA3 | 9546 |
| 1554571_at | amyloid beta (A4) precursor protein-binding, family B, member 1 interacting pro | APBB1IP | 54518 |
| 40148_at | amyloid beta (A4) precursor protein-binding, family B, member 2 (Fe65-like) | APBB2 | 323 |
| 201284_s_at | N-acylaminoacyl-peptide hydrolase | APEH | 327 |
| 214960_at | apoptosis inhibitor 5 | API5 | 8539 |
| 201687_s_at | apoptosis inhibitor 5 | API5 | 8539 |
| 201686_x_at | apoptosis inhibitor 5 | API5 | 8539 |
| 214959_s_at | apoptosis inhibitor 5 | API5 | 8539 |
| 218698_at | APAF1 interacting protein | APIP | 51074 |
| 214875_x_at | amyloid beta (A4) precursor-like protein 2 | APLP2 | 334 |
| 208702_x_at | amyloid beta (A4) precursor-like protein 2 | APLP2 | 334 |
| 211404_s_at | amyloid beta (A4) precursor-like protein 2 | APLP2 | 334 |
| 208703_s_at | amyloid beta (A4) precursor-like protein 2 | APLP2 | 334 |
| 208248_x_at | amyloid beta (A4) precursor-like protein 2 | APLP2 | 334 |
| 208704_x_at | amyloid beta (A4) precursor-like protein 2 | APLP2 | 334 |
| 220023_at | apolipoprotein B48 receptor | APOB48R | 55911 |
| 206160_at | apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 2 | APOBEC2 | 10930 |
| 209584_x_at | apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3C | APOBEC3C | 27350 |
| 243912_x_at | apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F | APOBEC3F | 200316 /// € |
| 214995_s_at | apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G /// apolip | APOBEC3F /// APO | 200316 /// € |
| 204205_at | apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G | APOBEC3G | 200316 /// € |
| 1554545_at | apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 4 (putative) | APOBEC4 | 403314 |
| 1557116_at | apolipoprotein L, 6 | APOL6 | 80830 |
| 1557236_at | apolipoprotein L, 6 | APOL6 | 80830 |
| 219716_at | apolipoprotein L, 6 | APOL6 | 80830 |
| 205682_x_at | apolipoprotein M | APOM | 55937 |
| 211277_x_at | amyloid beta (A4) precursor protein (peptidase nexin-II, Alzheimer disease) | APP | 351 |
| 202268_s_at | amyloid beta precursor protein binding protein 1 | APPBP1 | 8883 |
| 202631_s_at | amyloid beta precursor protein (cytoplasmic tail) binding protein 2 | APPBP2 | 10513 |
| 222538_s_at | adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper cor | APPL1 | 26060 |
| 218527_at | aprataxin | APTX | 54840 |
| 39248_at | aquaporin 3 (Gill blood group) | AQP3 | 360 |
| 205568_at | aquaporin 9 | AQP9 | 366 |
| 201176_s_at | archain 1 | ARCN1 | 372 |
| 210603_at | ARD1 homolog B (S. cerevisiae) | ARD1B | 84779 |
| 232175_at | ADP-ribosylation factor 1 | ARF1 | 375 |
| 1565651_at | ADP-ribosylation factor 1 | ARF1 | 375 |
| 200065_s_at | ADP-ribosylation factor 1 | ARF1 | 375 |
| 208750_s_at | ADP-ribosylation factor 1 | ARF1 | 375 |
| 200734_s_at | ADP-ribosylation factor 3 | ARF3 | 377 |
| 211622_s_at | ADP-ribosylation factor 3 | ARF3 | 377 |
| 201097_s_at | ADP-ribosylation factor 4 | ARF4 | 378 |
| 201096_s_at | ADP-ribosylation factor 4 | ARF4 | 378 |
| 203311_s_at | ADP-ribosylation factor 6 | ARF6 | 382 |
| 234001_s_at | ADP-ribosylation factor GTPase activating protein 1 | ARFGAP1 | 55738 |
| 202211_at | ADP-ribosylation factor GTPase activating protein 3 | ARFGAP3 | 26286 |
| 218098_at | ADP-ribosylation factor guanine nucleotide-exchange factor 2 (brefeldin A-inhib | ARFGEF2 | 10564 |
| 215931_s_at | ADP-ribosylation factor guanine nucleotide-exchange factor 2 (brefeldin A-inhib | ARFGEF2 | 10564 |
| 214483_s_at | ADP-ribosylation factor interacting protein 1 (arfaptin 1) | ARFIP1 | 27236 |

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|--------------|--|---------------------------------|--------------|
| 218230_at | ADP-ribosylation factor interacting protein 1 (arfaptin 1) | <i>ARFIP1</i> | 27236 |
| 202109_at | ADP-ribosylation factor interacting protein 2 (arfaptin 2) | <i>ARFIP2</i> | 23647 |
| 206177_s_at | arginase, liver | <i>ARG1</i> | 383 |
| 216689_x_at | Rho GTPase activating protein 1 | <i>ARHGAP1</i> | 392 |
| 202117_at | Rho GTPase activating protein 1 | <i>ARHGAP1</i> | 392 |
| 207606_s_at | Rho GTPase activating protein 12 | <i>ARHGAP12</i> | 94134 |
| 218870_at | Rho GTPase activating protein 15 | <i>ARHGAP15</i> | 55843 |
| 225171_at | Rho GTPase activating protein 18 | <i>ARHGAP18</i> | 93663 |
| 225173_at | Rho GTPase activating protein 18 | <i>ARHGAP18</i> | 93663 |
| 212738_at | Rho GTPase activating protein 19 | <i>ARHGAP19</i> | 84986 |
| 37577_at | Rho GTPase activating protein 19 | <i>ARHGAP19</i> | 84986 |
| 38149_at | Rho GTPase activating protein 25 | <i>ARHGAP25</i> | 9938 |
| 204882_at | Rho GTPase activating protein 25 | <i>ARHGAP25</i> | 9938 |
| 226576_at | Rho GTPase activating protein 26 | <i>ARHGAP26</i> | 23092 |
| 205068_s_at | Rho GTPase activating protein 26 | <i>ARHGAP26</i> | 23092 |
| 215955_x_at | Rho GTPase activating protein 26 | <i>ARHGAP26</i> | 23092 |
| 225618_at | Rho GTPase activating protein 27 | <i>ARHGAP27</i> | 201176 |
| 227057_at | Rho GTPase activating protein 27 | <i>ARHGAP27</i> | 201176 |
| 235635_at | Rho GTPase activating protein 5 | <i>ARHGAP5</i> | 394 |
| 217936_at | Rho GTPase activating protein 5 | <i>ARHGAP5</i> | 394 |
| 233849_s_at | Rho GTPase activating protein 5 | <i>ARHGAP5</i> | 394 |
| 201167_x_at | Rho GDP dissociation inhibitor (GDI) alpha | <i>ARHGDI</i> | 396 |
| 211716_x_at | Rho GDP dissociation inhibitor (GDI) alpha | <i>ARHGDI</i> | 396 |
| 213606_s_at | Rho GDP dissociation inhibitor (GDI) alpha | <i>ARHGDI</i> | 396 |
| 201168_x_at | Rho GDP dissociation inhibitor (GDI) alpha /// similar to Rho GDP dissociation in | <i>ARHGDI</i> /// <i>LOC7.</i> | 396 |
| 203055_s_at | Rho guanine nucleotide exchange factor (GEF) 1 | <i>ARHGEF1</i> | 9138 |
| 218501_at | Rho guanine nucleotide exchange factor (GEF) 3 | <i>ARHGEF3</i> | 50650 |
| 209539_at | Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 | <i>ARHGEF6</i> | 9459 |
| 1562271_x_at | Rho guanine nucleotide exchange factor (GEF) 7 | <i>ARHGEF7</i> | 8874 |
| 233339_s_at | AT rich interactive domain 1B (SWI1-like) | <i>ARID1B</i> | 57492 |
| 225184_at | AT rich interactive domain 1B (SWI1-like) /// similar to AT rich interactive domai | <i>ARID1B</i> /// <i>LOC729</i> | 57492 /// 7: |
| 218964_at | AT rich interactive domain 3B (BRIGHT-like) | <i>ARID3B</i> | 10620 |
| 223111_x_at | AT rich interactive domain 4B (RBP1-like) | <i>ARID4B</i> | 51742 |
| 212614_at | AT rich interactive domain 5B (MRF1-like) | <i>ARID5B</i> | 84159 |
| 201879_at | ariadne homolog, ubiquitin-conjugating enzyme E2 binding protein, 1 (Drosophi | <i>ARIH1</i> | 25820 |
| 201881_s_at | ariadne homolog, ubiquitin-conjugating enzyme E2 binding protein, 1 (Drosophi | <i>ARIH1</i> | 25820 |
| 201880_at | Ariadne homolog, ubiquitin-conjugating enzyme E2 binding protein, 1 (Drosophi | <i>ARIH1</i> | 25820 |
| 201878_at | ariadne homolog, ubiquitin-conjugating enzyme E2 binding protein, 1 (Drosophi | <i>ARIH1</i> | 25820 |
| 232991_at | ADP-ribosylation factor-like 17 | <i>ARL17</i> | 641522 |
| 210718_s_at | ADP-ribosylation factor-like 17 pseudogene 1 | <i>ARL17P1</i> | 51326 |
| 241910_x_at | ADP-ribosylation factor-like 17 pseudogene 1 | <i>ARL17P1</i> | 51326 |
| 213433_at | ADP-ribosylation factor-like 3 | <i>ARL3</i> | 403 |
| 202641_at | ADP-ribosylation factor-like 3 | <i>ARL3</i> | 403 |
| 226617_at | ADP-ribosylation factor-like 5A | <i>ARL5A</i> | 26225 |
| 218150_at | ADP-ribosylation factor-like 5A | <i>ARL5A</i> | 26225 |
| 242727_at | ADP-ribosylation factor-like 5B | <i>ARL5B</i> | 221079 |
| 226345_at | ADP-ribosylation factor-like 5B | <i>ARL5B</i> | --- |
| 211935_at | ADP-ribosylation factor-like 6 interacting protein 1 | <i>ARL6IP1</i> | 23204 |
| 222700_at | ADP-ribosylation factor-like 6 interacting protein 2 | <i>ARL6IP2</i> | 64225 |
| 225711_at | ADP-ribosylation-like factor 6 interacting protein 6 | <i>ARL6IP6</i> | 151188 |
| 225707_at | ADP-ribosylation-like factor 6 interacting protein 6 | <i>ARL6IP6</i> | 151188 |
| 225347_at | ADP-ribosylation factor-like 8A | <i>ARL8A</i> | 127829 |
| 217852_s_at | ADP-ribosylation factor-like 8B | <i>ARL8B</i> | 55207 |
| 222442_s_at | ADP-ribosylation factor-like 8B | <i>ARL8B</i> | 55207 |
| 222550_at | armadillo repeat containing 1 | <i>ARMC1</i> | 55156 |
| 218185_s_at | armadillo repeat containing 1 | <i>ARMC1</i> | 55156 |
| 221077_at | armadillo repeat containing 4 | <i>ARMC4</i> | 55130 |
| 221758_at | armadillo repeat containing 6 | <i>ARMC6</i> | 93436 |
| 203487_s_at | armadillo repeat containing 8 | <i>ARMC8</i> | 25852 |
| 217858_s_at | armadillo repeat containing, X-linked 3 | <i>ARMCX3</i> | 51566 |
| 202655_at | arginine-rich, mutated in early stage tumors | <i>ARMET</i> | 7873 |
| 218222_x_at | aryl hydrocarbon receptor nuclear translocator | <i>ARNT</i> | 405 |
| 210828_s_at | aryl hydrocarbon receptor nuclear translocator | <i>ARNT</i> | 405 |

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|--------------|--|----------------|--------------|
| 200950_at | actin related protein 2/3 complex, subunit 1A, 41kDa | <i>ARPC1A</i> | 10552 |
| 217818_s_at | actin related protein 2/3 complex, subunit 4, 20kDa | <i>ARPC4</i> | 10093 /// 26 |
| 211963_s_at | actin related protein 2/3 complex, subunit 5, 16kDa | <i>ARPC5</i> | 10092 |
| 1555797_a_at | actin related protein 2/3 complex, subunit 5, 16kDa | <i>ARPC5</i> | 10092 |
| 221482_s_at | cyclic AMP phosphoprotein, 19 kD | <i>ARPP-19</i> | 10776 |
| 218832_x_at | arrestin, beta 1 | <i>ARRB1</i> | 408 |
| 222912_at | arrestin, beta 1 | <i>ARRB1</i> | 408 |
| 203388_at | arrestin, beta 2 | <i>ARRB2</i> | 409 |
| 226055_at | arrestin domain containing 2 | <i>ARRDC2</i> | 27106 |
| 224797_at | arrestin domain containing 3 | <i>ARRDC3</i> | 57561 |
| 236541_at | Arylsulfatase A | <i>ARSA</i> | 410 |
| 1552632_a_at | arylsulfatase G | <i>ARSG</i> | 22901 |
| 239147_at | arylsulfatase family, member K | <i>ARSK</i> | 153642 |
| 207919_at | ADP-ribosyltransferase 1 | <i>ART1</i> | 417 |
| 214034_at | type 1 tumor necrosis factor receptor shedding aminopeptidase regulator | <i>ARTS-1</i> | 51752 |
| 209701_at | type 1 tumor necrosis factor receptor shedding aminopeptidase regulator | <i>ARTS-1</i> | 51752 |
| 213702_x_at | N-acylsphingosine amidohydrolase (acid ceramidase) 1 | <i>ASAH1</i> | 427 |
| 210980_s_at | N-acylsphingosine amidohydrolase (acid ceramidase) 1 | <i>ASAH1</i> | 427 |
| 1555419_a_at | N-acylsphingosine amidohydrolase (acid ceramidase) 1 | <i>ASAH1</i> | 427 |
| 213902_at | N-acylsphingosine amidohydrolase (acid ceramidase) 1 | <i>ASAH1</i> | 427 |
| 229793_at | N-acylsphingosine amidohydrolase (non-lysosomal ceramidase) 2 | <i>ASAH2</i> | 653308 |
| 227135_at | N-acylsphingosine amidohydrolase (acid ceramidase)-like | <i>AS AHL</i> | 27163 |
| 215178_x_at | N-acylsphingosine amidohydrolase (acid ceramidase)-like | <i>AS AHL</i> | 27163 |
| 214765_s_at | N-acylsphingosine amidohydrolase (acid ceramidase)-like | <i>AS AHL</i> | 27163 |
| 1553453_at | ankyrin repeat and SOCS box-containing 14 | <i>ASB14</i> | 142686 |
| 1554627_a_at | activating signal cointegrator 1 complex subunit 1 | <i>ASCC1</i> | 51008 |
| 219336_s_at | activating signal cointegrator 1 complex subunit 1 | <i>ASCC1</i> | 51008 |
| 215684_s_at | activating signal cointegrator 1 complex subunit 2 | <i>ASCC2</i> | 84164 |
| 201855_s_at | ATM/ATR-Substrate Chk2-Interacting Zn2+-finger protein | <i>ASCIZ</i> | 23300 |
| 203427_at | ASF1 anti-silencing function 1 homolog A (<i>S. cerevisiae</i>) | <i>ASF1A</i> | 25842 |
| 204608_at | argininosuccinate lyase | <i>ASL</i> | 435 |
| 232238_at | asp (abnormal spindle) homolog, microcephaly associated (<i>Drosophila</i>) | <i>ASPM</i> | 259266 |
| 239002_at | asp (abnormal spindle) homolog, microcephaly associated (<i>Drosophila</i>) | <i>ASPM</i> | 259266 |
| 218857_s_at | asparaginase like 1 | <i>ASRGL1</i> | 80150 |
| 222764_at | asparaginase like 1 | <i>ASRGL1</i> | 80150 |
| 1554816_at | astrotactin 2 | <i>ASTN2</i> | 23245 |
| 240072_at | Additional sex combs like 2 (<i>Drosophila</i>) | <i>ASXL2</i> | 55252 |
| 233536_at | additional sex combs like 3 (<i>Drosophila</i>) | <i>ASXL3</i> | 80816 |
| 1569729_a_at | ankyrin repeat, SAM and basic leucine zipper domain containing 1 | <i>ASZ1</i> | 136991 |
| 213387_at | ATPase family, AAA domain containing 2B | <i>ATAD2B</i> | 54454 |
| 232908_at | ATPase family, AAA domain containing 2B | <i>ATAD2B</i> | 54454 |
| 205446_s_at | activating transcription factor 2 | <i>ATF2</i> | 1386 |
| 212984_at | activating transcription factor 2 | <i>ATF2</i> | 1386 |
| 200779_at | activating transcription factor 4 (tax-responsive enhancer element B67) | <i>ATF4</i> | 468 |
| 204998_s_at | activating transcription factor 5 | <i>ATF5</i> | 22809 |
| 218987_at | activating transcription factor 7 interacting protein | <i>ATF7IP</i> | 55729 |
| 231825_x_at | activating transcription factor 7 interacting protein | <i>ATF7IP</i> | 55729 |
| 213026_at | ATG12 autophagy related 12 homolog (<i>S. cerevisiae</i>) | <i>ATG12</i> | 9140 |
| 204833_at | ATG12 autophagy related 12 homolog (<i>S. cerevisiae</i>) | <i>ATG12</i> | 9140 |
| 220521_s_at | ATG16 autophagy related 16-like 1 (<i>S. cerevisiae</i>) | <i>ATG16L1</i> | 55054 |
| 213300_at | ATG2 autophagy related 2 homolog A (<i>S. cerevisiae</i>) | <i>ATG2A</i> | 23130 |
| 1559485_at | ATG2 autophagy related 2 homolog B (<i>S. cerevisiae</i>) | <i>ATG2B</i> | 55102 |
| 221492_s_at | ATG3 autophagy related 3 homolog (<i>S. cerevisiae</i>) | <i>ATG3</i> | 64422 |
| 202512_s_at | ATG5 autophagy related 5 homolog (<i>S. cerevisiae</i>) | <i>ATG5</i> | 9474 |
| 202511_s_at | ATG5 autophagy related 5 homolog (<i>S. cerevisiae</i>) | <i>ATG5</i> | 9474 |
| 218673_s_at | ATG7 autophagy related 7 homolog (<i>S. cerevisiae</i>) | <i>ATG7</i> | 10533 |
| 224025_s_at | ATG7 autophagy related 7 homolog (<i>S. cerevisiae</i>) | <i>ATG7</i> | 10533 |
| 1569827_at | ATG7 autophagy related 7 homolog (<i>S. cerevisiae</i>) | <i>ATG7</i> | 10533 |
| 202492_at | ATG9 autophagy related 9 homolog A (<i>S. cerevisiae</i>) | <i>ATG9A</i> | 79065 |
| 1554631_at | ataxia telangiectasia mutated | <i>ATM</i> | 472 |
| 212672_at | ataxia telangiectasia mutated | <i>ATM</i> | 472 |
| 210858_x_at | ataxia telangiectasia mutated | <i>ATM</i> | 472 |
| 208442_s_at | ataxia telangiectasia mutated /// similar to Serine-protein kinase ATM (<i>Ataxia telangiectasia</i>) <i>ATM</i> /// <i>LOC65161</i> 472 | | |

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|--------------|---|-----------------|-----------|
| 1558705_at | atonal homolog 8 (Drosophila) | <i>ATOH8</i> | 84913 |
| 213238_at | ATPase, Class V, type 10D | <i>ATP10D</i> | 57205 |
| 215842_s_at | ATPase, Class VI, type 11A | <i>ATP11A</i> | 23250 |
| 230875_s_at | ATPase, Class VI, type 11A | <i>ATP11A</i> | 23250 |
| 238811_at | ATPase, Class VI, type 11B | <i>ATP11B</i> | 23200 |
| 1564064_a_at | ATPase, Class VI, type 11B | <i>ATP11B</i> | 23200 |
| 1554557_at | ATPase, Class VI, type 11B | <i>ATP11B</i> | 23200 |
| 1564063_a_at | ATPase, Class VI, type 11B | <i>ATP11B</i> | 23200 |
| 1554556_a_at | ATPase, Class VI, type 11B | <i>ATP11B</i> | 23200 |
| 219558_at | ATPase type 13A3 | <i>ATP13A3</i> | 79572 |
| 1553567_s_at | ATPase type 13A5 | <i>ATP13A5</i> | 100133315 |
| 220948_s_at | ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide | <i>ATP1A1</i> | 476 |
| 201242_s_at | ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide | <i>ATP1B1</i> | 481 |
| 208836_at | ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide | <i>ATP1B3</i> | 483 |
| 212361_s_at | ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2 | <i>ATP2A2</i> | 488 |
| 212930_at | ATPase, Ca ⁺⁺ transporting, plasma membrane 1 | <i>ATP2B1</i> | 490 |
| 215716_s_at | ATPase, Ca ⁺⁺ transporting, plasma membrane 1 | <i>ATP2B1</i> | 490 |
| 209281_s_at | ATPase, Ca ⁺⁺ transporting, plasma membrane 1 | <i>ATP2B1</i> | 490 |
| 212135_s_at | ATPase, Ca ⁺⁺ transporting, plasma membrane 4 | <i>ATP2B4</i> | 493 |
| 212136_at | ATPase, Ca ⁺⁺ transporting, plasma membrane 4 | <i>ATP2B4</i> | 493 |
| 209935_at | ATPase, Ca ⁺⁺ transporting, type 2C, member 1 | <i>ATP2C1</i> | 27032 |
| 206043_s_at | ATPase, Ca ⁺⁺ transporting, type 2C, member 2 | <i>ATP2C2</i> | 9914 |
| 213738_s_at | ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit 1, card | <i>ATP5A1</i> | 498 |
| 207508_at | ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit C3 (subunit 9) | <i>ATP5G3</i> | 518 |
| 210149_s_at | ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit d | <i>ATP5H</i> | 10476 |
| 237400_at | ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit s (factor B) | <i>ATP5S</i> | --- |
| 207809_s_at | ATPase, H ⁺ transporting, lysosomal accessory protein 1 | <i>ATP6AP1</i> | 537 |
| 201443_s_at | ATPase, H ⁺ transporting, lysosomal accessory protein 2 | <i>ATP6AP2</i> | 10159 |
| 205095_s_at | ATPase, H ⁺ transporting, lysosomal V0 subunit a1 | <i>ATP6V0A1</i> | 535 |
| 217603_at | ATPase, H ⁺ transporting, lysosomal V0 subunit a2 | <i>ATP6V0A2</i> | 23545 |
| 205704_s_at | ATPase, H ⁺ transporting, lysosomal V0 subunit a2 | <i>ATP6V0A2</i> | 23545 |
| 200078_s_at | ATPase, H ⁺ transporting, lysosomal 21kDa, V0 subunit b | <i>ATP6V0B</i> | 533 |
| 36994_at | ATPase, H ⁺ transporting, lysosomal 16kDa, V0 subunit c | <i>ATP6V0C</i> | 527 |
| 212041_at | ATPase, H ⁺ transporting, lysosomal 38kDa, V0 subunit d1 | <i>ATP6V0D1</i> | 9114 |
| 1553155_x_at | ATPase, H ⁺ transporting, lysosomal 38kDa, V0 subunit d2 | <i>ATP6V0D2</i> | 245972 |
| 1553153_at | ATPase, H ⁺ transporting, lysosomal 38kDa, V0 subunit d2 | <i>ATP6V0D2</i> | 245972 |
| 214150_x_at | ATPase, H ⁺ transporting, lysosomal 9kDa, V0 subunit e1 | <i>ATP6V0E1</i> | 8992 |
| 201172_x_at | ATPase, H ⁺ transporting, lysosomal 9kDa, V0 subunit e1 | <i>ATP6V0E1</i> | 8992 |
| 200096_s_at | ATPase, H ⁺ transporting, lysosomal 9kDa, V0 subunit e1 | <i>ATP6V0E1</i> | 8992 |
| 213587_s_at | ATPase, H ⁺ transporting V0 subunit e2 | <i>ATP6V0E2</i> | 155066 |
| 201971_s_at | ATPase, H ⁺ transporting, lysosomal 70kDa, V1 subunit A | <i>ATP6V1A</i> | 523 |
| 201089_at | ATPase, H ⁺ transporting, lysosomal 56/58kDa, V1 subunit B2 | <i>ATP6V1B2</i> | 526 |
| 226463_at | ATPase, H ⁺ transporting, lysosomal 42kDa, V1 subunit C1 | <i>ATP6V1C1</i> | 528 |
| 202873_at | ATPase, H ⁺ transporting, lysosomal 42kDa, V1 subunit C1 | <i>ATP6V1C1</i> | 528 |
| 202872_at | ATPase, H ⁺ transporting, lysosomal 42kDa, V1 subunit C1 | <i>ATP6V1C1</i> | 528 |
| 202874_s_at | ATPase, H ⁺ transporting, lysosomal 42kDa, V1 subunit C1 | <i>ATP6V1C1</i> | 528 |
| 208898_at | ATPase, H ⁺ transporting, lysosomal 34kDa, V1 subunit D | <i>ATP6V1D</i> | 51382 |
| 208899_x_at | ATPase, H ⁺ transporting, lysosomal 34kDa, V1 subunit D | <i>ATP6V1D</i> | 51382 |
| 208678_at | ATPase, H ⁺ transporting, lysosomal 31kDa, V1 subunit E1 | <i>ATP6V1E1</i> | 529 |
| 201527_at | ATPase, H ⁺ transporting, lysosomal 14kDa, V1 subunit F | <i>ATP6V1F</i> | 9296 |
| 208737_at | ATPase, H ⁺ transporting, lysosomal 13kDa, V1 subunit G1 | <i>ATP6V1G1</i> | 9550 |
| 1557586_s_at | ATPase, H ⁺ transporting, lysosomal 50/57kDa, V1 subunit H | <i>ATP6V1H</i> | 51606 |
| 214594_x_at | ATPase, Class I, type 8B, member 1 | <i>ATP8B1</i> | 5205 |
| 216873_s_at | ATPase, Class I, type 8B, member 2 | <i>ATP8B2</i> | 57198 |
| 220416_at | ATPase, Class I, type 8B, member 4 | <i>ATP8B4</i> | 79895 |
| 209903_s_at | ataxia telangiectasia and Rad3 related | <i>ATR</i> | 545 |
| 1569796_s_at | attractin-like 1 | <i>ATRNL1</i> | 26033 |
| 203231_s_at | ataxin 1 | <i>ATXN1</i> | 6310 |
| 203232_s_at | ataxin 1 | <i>ATXN1</i> | 6310 |
| 208833_s_at | ataxin 10 | <i>ATXN10</i> | 25814 |
| 208832_at | ataxin 10 | <i>ATXN10</i> | 25814 |
| 226095_s_at | ataxin 1-like | <i>ATXN1L</i> | 342371 |
| 207798_s_at | ataxin 2-like | <i>ATXN2L</i> | 11273 |

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|--------------|--|-------------------|--------------|
| 205415_s_at | ataxin 3 | ATXN3 | 4287 |
| 227732_at | ataxin 7-like 1 | ATXN7L1 | 222255 |
| 224969_at | ataxin 7-like 3 | ATXN7L3 | 56970 |
| 218580_x_at | aurora kinase A interacting protein 1 /// similar to Cyclin-L2 (Paneth cell-enhanc | AURKAIP1 /// LOC7 | 54998 |
| 225552_x_at | aurora kinase A interacting protein 1 /// similar to Cyclin-L2 (Paneth cell-enhanc | AURKAIP1 /// LOC7 | 54998 |
| 212599_at | autism susceptibility candidate 2 | AUTS2 | 26053 |
| 205539_at | advillin | AVIL | 10677 |
| 1568706_s_at | Advillin | AVIL | 10677 |
| 225557_at | AXIN1 up-regulated 1 | AXUD1 | 64651 |
| 227889_at | acyltransferase like 1 | AYTL1 | 54947 |
| 201818_at | acyltransferase like 2 | AYTL2 | 79888 |
| 212461_at | antizyme inhibitor 1 | AZIN1 | 51582 |
| 201772_at | antizyme inhibitor 1 | AZIN1 | 51582 |
| 223374_s_at | beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) | B3GALNT1 | 8706 |
| 226233_at | beta-1,3-N-acetylgalactosaminyltransferase 2 | B3GALNT2 | 148789 |
| 222969_at | UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1 | B3GALT1 | 8708 |
| 1553959_a_at | UDP-Gal:betaGal beta 1,3-galactosyltransferase polypeptide 6 | B3GALT6 | 126792 |
| 227083_at | beta 1,3-galactosyltransferase-like | B3GALT1 | 145173 |
| 227100_at | beta 1,3-galactosyltransferase-like | B3GALT1 | 145173 |
| 1554835_a_at | UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5 | B3GNT5 | 84002 |
| 225612_s_at | UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5 | B3GNT5 | 84002 |
| 1556134_a_at | UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5 | B3GNT5 | 84002 |
| 213589_s_at | UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase-like 1 | B3GNL1 | 146712 |
| 216627_s_at | UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1 | B4GALT1 | 2683 |
| 238987_at | UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1 | B4GALT1 | 2683 |
| 210540_s_at | UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4 | B4GALT4 | 8702 |
| 221484_at | UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5 | B4GALT5 | 9334 |
| 221485_at | UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5 | B4GALT5 | 9334 |
| 206233_at | UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6 | B4GALT6 | 9331 |
| 235333_at | UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6 | B4GALT6 | 9331 |
| 226859_at | DnaJ-like protein | bA16L21.2.1 | 548645 |
| 222446_s_at | beta-site APP-cleaving enzyme 2 | BACE2 | 25825 |
| 221234_s_at | BTB and CNC homology 1, basic leucine zipper transcription factor 2 | BACH2 | 60468 |
| 236796_at | BTB and CNC homology 1, basic leucine zipper transcription factor 2 | BACH2 | 60468 |
| 209364_at | BCL2-antagonist of cell death | BAD | 572 |
| 202387_at | BCL2-associated athanogene | BAG1 | 573 |
| 209406_at | BCL2-associated athanogene 2 | BAG2 | 9532 |
| 202984_s_at | BCL2-associated athanogene 5 | BAG5 | 9529 |
| 207712_at | B melanoma antigen | BAGE | 574 |
| 1555409_a_at | myeloid/lymphoid or mixed-lineage leukemia 3 /// B melanoma antigen family, | BAGE2 /// BAGE3 / | 58508 /// 85 |
| 1555408_at | B melanoma antigen family, member 4 /// B melanoma antigen family, member | BAGE2 /// BAGE4 | 85317 /// 85 |
| 1559048_at | BAH domain and coiled-coil containing 1 | BAHCC1 | 57597 |
| 205638_at | brain-specific angiogenesis inhibitor 3 | BAI3 | 577 |
| 219667_s_at | B-cell scaffold protein with ankyrin repeats 1 | BANK1 | 55024 |
| 222915_s_at | B-cell scaffold protein with ankyrin repeats 1 | BANK1 | 55024 |
| 1558662_s_at | B-cell scaffold protein with ankyrin repeats 1 | BANK1 | 55024 |
| 228928_x_at | BTG3 associated nuclear protein | BANP | 54971 |
| 219966_x_at | BTG3 associated nuclear protein /// similar to BTG3 associated nuclear protein i | BANP /// LOC64981 | 54971 |
| 201419_at | BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase) | BAP1 | 8314 |
| 202391_at | brain abundant, membrane attached signal protein 1 | BASP1 | 10409 |
| 211948_x_at | BAT2 domain containing 1 | BAT2D1 | 23215 |
| 211946_s_at | BAT2 domain containing 1 | BAT2D1 | 23215 |
| 214055_x_at | BAT2 domain containing 1 | BAT2D1 | 23215 |
| 211947_s_at | BAT2 domain containing 1 | BAT2D1 | 23215 |
| 201255_x_at | HLA-B associated transcript 3 | BAT3 | 7917 |
| 210208_x_at | HLA-B associated transcript 3 | BAT3 | 7917 |
| 213318_s_at | HLA-B associated transcript 3 | BAT3 | 7917 |
| 225476_at | HLA-B associated transcript 4 | BAT4 | 7918 |
| 217985_s_at | bromodomain adjacent to zinc finger domain, 1A | BAZ1A | 11177 |
| 203080_s_at | bromodomain adjacent to zinc finger domain, 2B | BAZ2B | 29994 |
| 211692_s_at | BCL2 binding component 3 | BBC3 | 27113 |
| 219487_at | Bardet-Biedl syndrome 10 | BBS10 | 79738 |
| 223227_at | Bardet-Biedl syndrome 2 | BBS2 | 583 |

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|--------------|---|----------------|--------|
| 212745_s_at | Bardet-Biedl syndrome 4 | <i>BBS4</i> | 585 |
| 235007_at | Bardet-Biedl syndrome 7 | <i>BBS7</i> | 55212 |
| 225674_at | B-cell receptor-associated protein 29 | <i>BCAP29</i> | 55973 |
| 203053_at | breast carcinoma amplified sequence 2 | <i>BCAS2</i> | 10286 |
| 227322_s_at | BRCA2 and CDKN1A interacting protein | <i>BCCIP</i> | 56647 |
| 234979_at | BCDIN3 domain containing | <i>BCDIN3D</i> | 144233 |
| 202331_at | branched chain keto acid dehydrogenase E1, alpha polypeptide | <i>BCKDHA</i> | 593 |
| 202030_at | branched chain ketoacid dehydrogenase kinase | <i>BCKDK</i> | 10295 |
| 205263_at | B-cell CLL/lymphoma 10 | <i>BCL10</i> | 8915 |
| 1557257_at | B-cell CLL/lymphoma 10 | <i>BCL10</i> | 8915 |
| 219497_s_at | B-cell CLL/lymphoma 11A (zinc finger protein) | <i>BCL11A</i> | 53335 |
| 222891_s_at | B-cell CLL/lymphoma 11A (zinc finger protein) | <i>BCL11A</i> | 53335 |
| 1559078_at | B-cell CLL/lymphoma 11A (zinc finger protein) | <i>BCL11A</i> | 53335 |
| 219498_s_at | B-cell CLL/lymphoma 11A (zinc finger protein) | <i>BCL11A</i> | 53335 |
| 222895_s_at | B-cell CLL/lymphoma 11B (zinc finger protein) | <i>BCL11B</i> | 64919 |
| 219528_s_at | B-cell CLL/lymphoma 11B (zinc finger protein) | <i>BCL11B</i> | 64919 |
| 203685_at | B-cell CLL/lymphoma 2 | <i>BCL2</i> | 596 |
| 205681_at | BCL2-related protein A1 | <i>BCL2A1</i> | 597 |
| 223664_x_at | BCL2-like 13 (apoptosis facilitator) | <i>BCL2L13</i> | 23786 |
| 204908_s_at | B-cell CLL/lymphoma 3 | <i>BCL3</i> | 602 |
| 204907_s_at | B-cell CLL/lymphoma 3 | <i>BCL3</i> | 602 |
| 215990_s_at | B-cell CLL/lymphoma 6 (zinc finger protein 51) | <i>BCL6</i> | 604 |
| 203140_at | B-cell CLL/lymphoma 6 (zinc finger protein 51) | <i>BCL6</i> | 604 |
| 223566_s_at | BCL6 co-repressor | <i>BCOR</i> | 54880 |
| 202315_s_at | breakpoint cluster region | <i>BCR</i> | 613 |
| 211715_s_at | 3-hydroxybutyrate dehydrogenase, type 1 | <i>BDH1</i> | 622 |
| 218285_s_at | 3-hydroxybutyrate dehydrogenase, type 2 | <i>BDH2</i> | 56898 |
| 239367_at | brain-derived neurotrophic factor | <i>BDNF</i> | 627 |
| 1567361_at | brain-derived neurotrophic factor opposite strand | <i>BDNFOS</i> | 497258 |
| 226290_at | B double prime 1, subunit of RNA polymerase III transcription initiation factor III | <i>BDP1</i> | 55814 |
| 207671_s_at | bestrophin 1 | <i>BEST1</i> | 7439 |
| 1554443_s_at | bestrophin 1 | <i>BEST1</i> | 7439 |
| 1554442_at | bestrophin 1 | <i>BEST1</i> | 7439 |
| 201169_s_at | basic helix-loop-helix domain containing, class B, 2 | <i>BHLHB2</i> | 8553 |
| 201170_s_at | basic helix-loop-helix domain containing, class B, 2 | <i>BHLHB2</i> | 8553 |
| 1569674_at | Basic helix-loop-helix domain containing, class B, 9 | <i>BHLHB9</i> | 80823 |
| 229437_at | BIC transcript | <i>BIC</i> | 114614 |
| 220580_at | bicaudal C homolog 1 (Drosophila) | <i>BICC1</i> | 80114 |
| 212702_s_at | bicaudal D homolog 2 (Drosophila) | <i>BICD2</i> | 23299 |
| 209203_s_at | bicaudal D homolog 2 (Drosophila) | <i>BICD2</i> | 23299 |
| 213154_s_at | bicaudal D homolog 2 (Drosophila) | <i>BICD2</i> | 23299 |
| 1553021_s_at | bicaudal D homolog 2 (Drosophila) | <i>BICD2</i> | 23299 |
| 227143_s_at | BH3 interacting domain death agonist | <i>BID</i> | 637 |
| 204493_at | BH3 interacting domain death agonist | <i>BID</i> | 637 |
| 211725_s_at | BH3 interacting domain death agonist | <i>BID</i> | 637 |
| 219191_s_at | bridging integrator 2 | <i>BIN2</i> | 51411 |
| 210538_s_at | baculoviral IAP repeat-containing 3 | <i>BIRC3</i> | 330 |
| 225859_at | baculoviral IAP repeat-containing 4 | <i>BIRC4</i> | 331 |
| 228363_at | baculoviral IAP repeat-containing 4 | <i>BIRC4</i> | 331 |
| 225858_s_at | baculoviral IAP repeat-containing 4 | <i>BIRC4</i> | 331 |
| 206536_s_at | baculoviral IAP repeat-containing 4 | <i>BIRC4</i> | 331 |
| 1569289_at | Basic, immunoglobulin-like variable motif containing | <i>BIVM</i> | 54841 |
| 222761_at | basic, immunoglobulin-like variable motif containing | <i>BIVM</i> | 54841 |
| 207655_s_at | B-cell linker | <i>BLNK</i> | 29760 |
| 211729_x_at | biliverdin reductase A | <i>BLVRA</i> | 644 |
| 203773_x_at | biliverdin reductase A | <i>BLVRA</i> | 644 |
| 202201_at | biliverdin reductase B (flavin reductase (NADPH)) | <i>BLVRB</i> | 645 |
| 210462_at | basic leucine zipper nuclear factor 1 (JEM-1) | <i>BLZF1</i> | 8548 |
| 37170_at | BMP2 inducible kinase | <i>BMP2K</i> | 55589 |
| 219546_at | BMP2 inducible kinase | <i>BMP2K</i> | 55589 |
| 59644_at | BMP2 inducible kinase | <i>BMP2K</i> | 55589 |
| 205431_s_at | bone morphogenetic protein 5 | <i>BMP5</i> | 653 |
| 206176_at | bone morphogenetic protein 6 | <i>BMP6</i> | 654 |

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|--------------|---|---------------------------------------|--------|
| 204832_s_at | bone morphogenetic protein receptor, type IA | <i>BMPR1A</i> | 657 |
| 213578_at | bone morphogenetic protein receptor, type IA | <i>BMPR1A</i> | 657 |
| 225144_at | bone morphogenetic protein receptor, type II (serine/threonine kinase) | <i>BMPR2</i> | 659 |
| 238516_at | bone morphogenetic protein receptor, type II (serine/threonine kinase) | <i>BMPR2</i> | 659 |
| 231106_at | BMS1 pseudogene 5 /// centaurin, gamma-like family, member 6 /// centaurin, | <i>BMS1P5</i> /// <i>CTGLF1</i> | 399761 |
| 239151_at | BMS1 pseudogene 5 /// hypothetical protein LOC643564 | <i>BMS1P5</i> /// <i>LOC64.642517</i> | |
| 235723_at | basonuclin 2 | <i>BNC2</i> | 54796 |
| 230722_at | basonuclin 2 | <i>BNC2</i> | 54796 |
| 238478_at | basonuclin 2 | <i>BNC2</i> | 54796 |
| 209308_s_at | BCL2/adenovirus E1B 19kDa interacting protein 2 | <i>BNIP2</i> | 663 |
| 201848_s_at | BCL2/adenovirus E1B 19kDa interacting protein 3 | <i>BNIP3</i> | 664 |
| 201849_at | BCL2/adenovirus E1B 19kDa interacting protein 3 | <i>BNIP3</i> | 664 |
| 221479_s_at | BCL2/adenovirus E1B 19kDa interacting protein 3-like | <i>BNIP3L</i> | 665 |
| 221478_at | BCL2/adenovirus E1B 19kDa interacting protein 3-like | <i>BNIP3L</i> | 665 |
| 231500_s_at | BolA homolog 2 (E. coli) | <i>BOLA2</i> | 552900 |
| 241644_at | bolA homolog 2 (E. coli) | <i>BOLA2</i> | 552900 |
| 205557_at | bactericidal/permeability-increasing protein | <i>BPI</i> | 671 |
| 230056_at | bromodomain PHD finger transcription factor | <i>BPTF</i> | 2186 |
| 232909_s_at | bromodomain PHD finger transcription factor | <i>BPTF</i> | 2186 |
| 243829_at | v-raf murine sarcoma viral oncogene homolog B1 | <i>BRAF</i> | 673 |
| 206044_s_at | v-raf murine sarcoma viral oncogene homolog B1 | <i>BRAF</i> | 673 |
| 209922_at | BRCA1 associated protein | <i>BRAP</i> | 8315 |
| 209923_s_at | BRCA1 associated protein | <i>BRAP</i> | 8315 |
| 214727_at | breast cancer 2, early onset | <i>BRCA2</i> | 675 |
| 208685_x_at | bromodomain containing 2 | <i>BRD2</i> | 6046 |
| 214911_s_at | bromodomain containing 2 | <i>BRD2</i> | 6046 |
| 208686_s_at | bromodomain containing 2 | <i>BRD2</i> | 6046 |
| 203825_at | bromodomain containing 3 | <i>BRD3</i> | 8019 |
| 205550_s_at | brain and reproductive organ-expressed (TNFRSF1A modulator) | <i>BRE</i> | 9577 |
| 211566_x_at | brain and reproductive organ-expressed (TNFRSF1A modulator) | <i>BRE</i> | 9577 |
| 212645_x_at | brain and reproductive organ-expressed (TNFRSF1A modulator) | <i>BRE</i> | 9577 |
| 223376_s_at | brain protein I3 | <i>BRI3</i> | 25798 |
| 231810_at | BRI3 binding protein | <i>BRI3BP</i> | 140707 |
| 215631_s_at | breast cancer metastasis suppressor 1 | <i>BRMS1</i> | 25855 |
| 224484_s_at | breast cancer metastasis-suppressor 1-like | <i>BRMS1L</i> | 84312 |
| 226580_at | breast cancer metastasis-suppressor 1-like | <i>BRMS1L</i> | 84312 |
| 225217_s_at | bromodomain and PHD finger containing, 3 | <i>BRPF3</i> | 27154 |
| 207369_at | bombesin-like receptor 3 | <i>BRS3</i> | 680 |
| 227775_at | bruno-like 6, RNA binding protein (Drosophila) | <i>BRUNOL6</i> | 60677 |
| 244622_at | Bromodomain and WD repeat domain containing 1 | <i>BRWD1</i> | 54014 |
| 218090_s_at | bromodomain and WD repeat domain containing 2 | <i>BRWD2</i> | 55717 |
| 229694_at | bromodomain and WD repeat domain containing 2 | <i>BRWD2</i> | 55717 |
| 1553252_a_at | bromodomain and WD repeat domain containing 3 | <i>BRWD3</i> | 254065 |
| 235156_at | bromodomain and WD repeat domain containing 3 | <i>BRWD3</i> | --- |
| 222200_s_at | BSD domain containing 1 | <i>BSDC1</i> | 55108 |
| 205715_at | bone marrow stromal cell antigen 1 | <i>BST1</i> | 683 |
| 201641_at | bone marrow stromal cell antigen 2 | <i>BST2</i> | 684 |
| 228570_at | BTB (POZ) domain containing 11 | <i>BTBD11</i> | 121551 |
| 239687_at | BTB (POZ) domain containing 12 | <i>BTBD12</i> | 84464 |
| 202946_s_at | BTB (POZ) domain containing 3 | <i>BTBD3</i> | 22903 |
| 225389_at | BTB (POZ) domain containing 6 | <i>BTBD6</i> | 90135 |
| 224945_at | BTB (POZ) domain containing 7 | <i>BTBD7</i> | 55727 |
| 214116_at | biotinidase | <i>BTB</i> | 686 |
| 226963_at | basic transcription factor 3-like 4 | <i>BTF3L4</i> | 91408 |
| 1559975_at | B-cell translocation gene 1, anti-proliferative | <i>BTG1</i> | 694 |
| 200921_s_at | B-cell translocation gene 1, anti-proliferative | <i>BTG1</i> | 694 |
| 200920_s_at | B-cell translocation gene 1, anti-proliferative | <i>BTG1</i> | 694 |
| 215425_at | BTG family, member 3 | <i>BTG3</i> | 10950 |
| 213134_x_at | BTG family, member 3 | <i>BTG3</i> | 10950 |
| 1554362_at | B-cell translocation gene 4 | <i>BTG4</i> | 54766 |
| 205504_at | Bruton agammaglobulinemia tyrosine kinase | <i>BTK</i> | 695 |
| 205299_s_at | butyrophilin, subfamily 2, member A2 | <i>BTN2A2</i> | 10385 |
| 209770_at | butyrophilin, subfamily 3, member A1 | <i>BTN3A1</i> | 11119 |

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|--------------|--|--------------------------------|--------------|
| 212613_at | butyrophilin, subfamily 3, member A2 | <i>BTN3A2</i> | 11118 |
| 209846_s_at | butyrophilin, subfamily 3, member A2 | <i>BTN3A2</i> | 11118 |
| 204820_s_at | butyrophilin, subfamily 3, member A3 /// butyrophilin, subfamily 3, member A2 | <i>BTN3A2</i> /// <i>BTN3A</i> | 10384 /// 1: |
| 204821_at | butyrophilin, subfamily 3, member A3 | <i>BTN3A3</i> | 10384 |
| 38241_at | butyrophilin, subfamily 3, member A3 | <i>BTN3A3</i> | 10384 |
| 209974_s_at | BUB3 budding uninhibited by benzimidazoles 3 homolog (yeast) | <i>BUB3</i> | 9184 |
| 201458_s_at | BUB3 budding uninhibited by benzimidazoles 3 homolog (yeast) | <i>BUB3</i> | 9184 |
| 205690_s_at | BUD31 homolog (<i>S. cerevisiae</i>) | <i>BUD31</i> | 8896 |
| 234243_at | brix domain containing 5 | <i>BXDC5</i> | 80135 |
| 205839_s_at | benzodiazapine receptor (peripheral) associated protein 1 | <i>BZRAP1</i> | 9256 |
| 200777_s_at | basic leucine zipper and W2 domains 1 /// similar to basic leucine zipper and W: | <i>BZW1</i> /// <i>LOC1515</i> | 9689 |
| 200776_s_at | basic leucine zipper and W2 domains 1 /// similar to basic leucine zipper and W: | <i>BZW1</i> /// <i>LOC1515</i> | 151579 /// ? |
| 224667_x_at | chromosome 10 open reading frame 104 | <i>C10orf104</i> | 119504 |
| 229145_at | chromosome 10 open reading frame 104 | <i>C10orf104</i> | 119504 |
| 224664_at | chromosome 10 open reading frame 104 | <i>C10orf104</i> | 119504 |
| 224665_at | chromosome 10 open reading frame 104 | <i>C10orf104</i> | 119504 |
| 1557548_at | chromosome 10 open reading frame 108 | <i>C10orf108</i> | 414235 |
| 220703_at | chromosome 10 open reading frame 110 | <i>C10orf110</i> | 55853 |
| 229399_at | chromosome 10 open reading frame 118 | <i>C10orf118</i> | 55088 |
| 227701_at | chromosome 10 open reading frame 118 | <i>C10orf118</i> | 55088 |
| 217905_at | chromosome 10 open reading frame 119 | <i>C10orf119</i> | 79892 |
| 213410_at | chromosome 10 open reading frame 137 | <i>C10orf137</i> | 26098 |
| 227777_at | chromosome 10 open reading frame 18 | <i>C10orf18</i> | 54906 |
| 238795_at | chromosome 10 open reading frame 18 | <i>C10orf18</i> | 54906 |
| 212502_at | chromosome 10 open reading frame 22 | <i>C10orf22</i> | 84890 |
| 212500_at | chromosome 10 open reading frame 22 | <i>C10orf22</i> | 84890 |
| 202808_at | chromosome 10 open reading frame 26 | <i>C10orf26</i> | 54838 |
| 228374_at | chromosome 10 open reading frame 28 | <i>C10orf28</i> | 27291 |
| 210455_at | chromosome 10 open reading frame 28 | <i>C10orf28</i> | 27291 |
| 212771_at | chromosome 10 open reading frame 38 | <i>C10orf38</i> | 221061 |
| 226398_s_at | chromosome 10 open reading frame 4 | <i>C10orf4</i> | 118924 |
| 227136_s_at | Chromosome 10 open reading frame 46 | <i>C10orf46</i> | 143384 |
| 225373_at | chromosome 10 open reading frame 54 | <i>C10orf54</i> | 64115 |
| 225372_at | chromosome 10 open reading frame 54 | <i>C10orf54</i> | 64115 |
| 1557531_a_at | chromosome 10 open reading frame 55 | <i>C10orf55</i> | 414236 |
| 228155_at | chromosome 10 open reading frame 58 | <i>C10orf58</i> | 84293 |
| 223824_at | chromosome 10 open reading frame 59 | <i>C10orf59</i> | 55328 |
| 203481_at | chromosome 10 open reading frame 6 | <i>C10orf6</i> | 55719 |
| 1553863_at | chromosome 10 open reading frame 64 | <i>C10orf64</i> | 57705 |
| 239093_at | chromosome 10 open reading frame 65 | <i>C10orf65</i> | 112817 |
| 1553845_x_at | chromosome 10 open reading frame 67 | <i>C10orf67</i> | 256815 |
| 55662_at | chromosome 10 open reading frame 76 | <i>C10orf76</i> | 79591 |
| 236027_at | chromosome 10 open reading frame 78 | <i>C10orf78</i> | 119392 |
| 238794_at | chromosome 10 open reading frame 78 | <i>C10orf78</i> | 119392 |
| 1557544_at | chromosome 10 open reading frame 80 | <i>C10orf80</i> | 159686 |
| 222852_at | chromosome 10 open reading frame 88 | <i>C10orf88</i> | 80007 |
| 218213_s_at | chromosome 11 open reading frame 10 | <i>C11orf10</i> | 746 |
| 220560_at | chromosome 11 open reading frame 21 | <i>C11orf21</i> | 29125 |
| 1569349_at | chromosome 11 open reading frame 30 | <i>C11orf30</i> | 56946 |
| 228331_at | chromosome 11 open reading frame 31 | <i>C11orf31</i> | 280636 |
| 1559623_at | Chromosome 11 open reading frame 54 | <i>C11orf54</i> | 28970 |
| 223268_at | chromosome 11 open reading frame 54 | <i>C11orf54</i> | 28970 |
| 229851_s_at | chromosome 11 open reading frame 54 | <i>C11orf54</i> | 28970 |
| 223009_at | chromosome 11 open reading frame 59 | <i>C11orf59</i> | 55004 |
| 221208_s_at | chromosome 11 open reading frame 61 | <i>C11orf61</i> | 79684 |
| 1554764_a_at | chromosome 11 open reading frame 64 | <i>C11orf64</i> | 283197 |
| 235402_at | chromosome 11 open reading frame 66 | <i>C11orf66</i> | 220004 |
| 221534_at | chromosome 11 open reading frame 68 | <i>C11orf68</i> | 83638 |
| 218789_s_at | chromosome 11 open reading frame 71 | <i>C11orf71</i> | 54494 |
| 219806_s_at | chromosome 11 open reading frame 75 | <i>C11orf75</i> | 56935 |
| 223048_at | chromosome 11 open reading frame 79 | <i>C11orf79</i> | 54949 |
| 238593_at | chromosome 11 open reading frame 80 | <i>C11orf80</i> | 79703 |
| 221652_s_at | chromosome 12 open reading frame 11 | <i>C12orf11</i> | 55726 |

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|--------------|--------------------------------------|------------------|--------------|
| 229018_at | chromosome 12 open reading frame 26 | <i>C12orf26</i> | 84190 |
| 213701_at | chromosome 12 open reading frame 29 | <i>C12orf29</i> | 91298 |
| 225888_at | chromosome 12 open reading frame 30 | <i>C12orf30</i> | 80018 |
| 224446_at | chromosome 12 open reading frame 31 | <i>C12orf31</i> | 84298 |
| 227152_at | chromosome 12 open reading frame 35 | <i>C12orf35</i> | 55196 |
| 218614_at | chromosome 12 open reading frame 35 | <i>C12orf35</i> | 55196 |
| 218374_s_at | chromosome 12 open reading frame 4 | <i>C12orf4</i> | 57102 |
| 222613_at | chromosome 12 open reading frame 4 | <i>C12orf4</i> | 57102 |
| 219817_at | chromosome 12 open reading frame 47 | <i>C12orf47</i> | 51275 |
| 220060_s_at | chromosome 12 open reading frame 48 | <i>C12orf48</i> | 55010 |
| 224147_at | chromosome 12 open reading frame 48 | <i>C12orf48</i> | 55010 |
| 222767_s_at | chromosome 12 open reading frame 49 | <i>C12orf49</i> | 79794 |
| 244378_at | Chromosome 12 open reading frame 51 | <i>C12orf51</i> | 283450 |
| 224719_s_at | chromosome 12 open reading frame 57 | <i>C12orf57</i> | 113246 |
| 218723_s_at | chromosome 13 open reading frame 15 | <i>C13orf15</i> | 28984 |
| 219471_at | chromosome 13 open reading frame 18 | <i>C13orf18</i> | 728970 /// ε |
| 44790_s_at | chromosome 13 open reading frame 18 | <i>C13orf18</i> | 728970 /// ε |
| 240667_at | Chromosome 13 open reading frame 21 | <i>C13orf21</i> | 387923 |
| 225887_at | chromosome 13 open reading frame 23 | <i>C13orf23</i> | 80209 |
| 218420_s_at | chromosome 13 open reading frame 23 | <i>C13orf23</i> | 80209 |
| 1553141_at | chromosome 13 open reading frame 31 | <i>C13orf31</i> | 144811 |
| 219303_at | chromosome 13 open reading frame 7 | <i>C13orf7</i> | 79596 |
| 226194_at | chromosome 13 open reading frame 8 | <i>C13orf8</i> | 283489 |
| 223547_at | chromosome 14 open reading frame 100 | <i>C14orf100</i> | 51528 |
| 219166_at | chromosome 14 open reading frame 104 | <i>C14orf104</i> | 55172 |
| 241816_at | Chromosome 14 open reading frame 106 | <i>C14orf106</i> | 55320 |
| 206500_s_at | chromosome 14 open reading frame 106 | <i>C14orf106</i> | 55320 |
| 226630_at | chromosome 14 open reading frame 106 | <i>C14orf106</i> | 55320 |
| 218139_s_at | chromosome 14 open reading frame 108 | <i>C14orf108</i> | 55745 |
| 213246_at | chromosome 14 open reading frame 109 | <i>C14orf109</i> | 26175 |
| 217645_at | chromosome 14 open reading frame 112 | <i>C14orf112</i> | 51241 |
| 229514_at | chromosome 14 open reading frame 118 | <i>C14orf118</i> | 55668 |
| 219972_s_at | chromosome 14 open reading frame 135 | <i>C14orf135</i> | 100130173 , |
| 219563_at | chromosome 14 open reading frame 139 | <i>C14orf139</i> | 79686 |
| 214264_s_at | chromosome 14 open reading frame 143 | <i>C14orf143</i> | 90141 |
| 232814_x_at | Chromosome 14 open reading frame 153 | <i>C14orf153</i> | 84334 |
| 225948_at | chromosome 14 open reading frame 153 | <i>C14orf153</i> | 84334 |
| 218298_s_at | chromosome 14 open reading frame 159 | <i>C14orf159</i> | 80017 |
| 219526_at | chromosome 14 open reading frame 169 | <i>C14orf169</i> | 79697 |
| 227029_at | chromosome 14 open reading frame 24 | <i>C14orf24</i> | 283635 |
| 235369_at | chromosome 14 open reading frame 28 | <i>C14orf28</i> | 122525 |
| 212643_at | chromosome 14 open reading frame 32 | <i>C14orf32</i> | 93487 |
| 212497_at | chromosome 14 open reading frame 32 | <i>C14orf32</i> | 93487 |
| 212644_s_at | chromosome 14 open reading frame 32 | <i>C14orf32</i> | 93487 |
| 1561985_at | chromosome 14 open reading frame 39 | <i>C14orf39</i> | 317761 |
| 242608_x_at | Chromosome 14 open reading frame 44 | <i>C14orf44</i> | 145483 |
| 220173_at | chromosome 14 open reading frame 45 | <i>C14orf45</i> | 80127 |
| 1563524_a_at | chromosome 14 open reading frame 85 | <i>C14orf85</i> | 319085 |
| 234594_at | chromosome 14 open reading frame 85 | <i>C14orf85</i> | 319085 |
| 219009_at | chromosome 14 open reading frame 93 | <i>C14orf93</i> | 60686 |
| 218383_at | chromosome 14 open reading frame 94 | <i>C14orf94</i> | 54930 |
| 242649_x_at | chromosome 15 open reading frame 21 | <i>C15orf21</i> | 283651 |
| 217898_at | chromosome 15 open reading frame 24 | <i>C15orf24</i> | 56851 |
| 218791_s_at | chromosome 15 open reading frame 29 | <i>C15orf29</i> | 79768 |
| 222745_s_at | chromosome 15 open reading frame 29 | <i>C15orf29</i> | 79768 |
| 1556588_at | chromosome 15 open reading frame 37 | <i>C15orf37</i> | 283687 |
| 204494_s_at | chromosome 15 open reading frame 39 | <i>C15orf39</i> | 56905 |
| 1552310_at | chromosome 15 open reading frame 40 | <i>C15orf40</i> | 123207 |
| 1568801_at | chromosome 15 open reading frame 44 | <i>C15orf44</i> | 81556 |
| 223484_at | chromosome 15 open reading frame 48 | <i>C15orf48</i> | 84419 |
| 208109_s_at | chromosome 15 open reading frame 5 | <i>C15orf5</i> | 81698 |
| 227380_x_at | Chromosome 16 open reading frame 13 | <i>C16orf13</i> | 84326 |
| 227378_x_at | chromosome 16 open reading frame 13 | <i>C16orf13</i> | 84326 |

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| 225861_at | chromosome 16 open reading frame 14 | C16orf14 | 84331 |
| 1553715_s_at | chromosome 16 open reading frame 14 | C16orf14 | 84331 |
| 221064_s_at | chromosome 16 open reading frame 28 | C16orf28 | 64718 |
| 219315_s_at | chromosome 16 open reading frame 30 | C16orf30 | 79652 |
| 218493_at | chromosome 16 open reading frame 33 | C16orf33 | 79622 |
| 213105_s_at | chromosome 16 open reading frame 42 | C16orf42 | 115939 |
| 212736_at | chromosome 16 open reading frame 45 | C16orf45 | 89927 |
| 230721_at | chromosome 16 open reading frame 52 | C16orf52 | 730094 |
| 227351_at | chromosome 16 open reading frame 52 | C16orf52 | 730094 |
| 1554119_at | chromosome 16 open reading frame 57 | C16orf57 | 79650 |
| 1568954_s_at | chromosome 16 open reading frame 72 | C16orf72 | 29035 |
| 1553990_at | chromosome 16 open reading frame 79 | C16orf79 | 283870 |
| 224447_s_at | chromosome 17 open reading frame 37 | C17orf37 | 84299 |
| 220606_s_at | chromosome 17 open reading frame 48 | C17orf48 | 56985 |
| 224574_at | chromosome 17 open reading frame 49 /// similar to DNA segment, Chr 11, Brig | C17orf49 /// MGC7 | 124944 /// 4 |
| 226901_at | chromosome 17 open reading frame 58 | C17orf58 | 284018 |
| 219435_at | chromosome 17 open reading frame 68 | C17orf68 | 80169 |
| 1553486_a_at | chromosome 17 open reading frame 78 | C17orf78 | 284099 |
| 225096_at | chromosome 17 open reading frame 79 | C17orf79 | 55352 |
| 223351_at | chromosome 17 open reading frame 80 | C17orf80 | 55028 |
| 223286_at | chromosome 17 open reading frame 81 | C17orf81 | 23587 |
| 222779_s_at | chromosome 17 open reading frame 85 | C17orf85 | 55421 |
| 209574_s_at | chromosome 18 open reading frame 1 | C18orf1 | 753 |
| 207996_s_at | chromosome 18 open reading frame 1 | C18orf1 | 753 |
| 1560751_at | chromosome 18 open reading frame 16 | C18orf16 | 147429 |
| 242149_at | chromosome 18 open reading frame 19 | C18orf19 | 125228 |
| 230739_at | chromosome 18 open reading frame 19 | C18orf19 | 125228 |
| 235022_at | chromosome 18 open reading frame 19 | C18orf19 | 125228 |
| 1553934_at | chromosome 18 open reading frame 20 | C18orf20 | 221241 |
| 224957_at | chromosome 18 open reading frame 32 | C18orf32 | 497661 |
| 1559716_at | chromosome 18 open reading frame 37 | C18orf37 | 125476 |
| 224493_x_at | chromosome 18 open reading frame 45 | C18orf45 | 85019 |
| 244495_x_at | chromosome 18 open reading frame 45 | C18orf45 | 85019 |
| 232222_at | zinc finger, CCHC domain containing 2 /// chromosome 18 open reading frame 4 | C18orf49 /// ZCCHC | 400653 |
| 238480_at | Chromosome 18 open reading frame 50 | C18orf50 | --- |
| 1570552_at | chromosome 18 open reading frame 50 | C18orf50 | 619463 |
| 229442_at | chromosome 18 open reading frame 54 | C18orf54 | 162681 |
| 241733_at | Chromosome 18 open reading frame 54 | C18orf54 | 162681 |
| 225863_s_at | chromosome 19 open reading frame 12 | C19orf12 | 83636 |
| 223983_s_at | chromosome 19 open reading frame 12 | C19orf12 | 83636 |
| 222266_at | Chromosome 19 open reading frame 2 | C19orf2 | 8725 |
| 214173_x_at | chromosome 19 open reading frame 2 | C19orf2 | 8725 |
| 226516_at | chromosome 19 open reading frame 28 | C19orf28 | 126321 |
| 229650_s_at | chromosome 19 open reading frame 42 | C19orf42 | 79086 |
| 200076_s_at | chromosome 19 open reading frame 50 | C19orf50 | 79036 |
| 235568_at | chromosome 19 open reading frame 59 | C19orf59 | 199675 |
| 212575_at | chromosome 19 open reading frame 6 | C19orf6 | 91304 |
| 213390_at | chromosome 19 open reading frame 7 | C19orf7 | 23211 |
| 219283_at | C1GALT1-specific chaperone 1 | C1GALT1C1 | 29071 |
| 220235_s_at | chromosome 1 open reading frame 103 | C1orf103 | 55791 |
| 217893_s_at | chromosome 1 open reading frame 108 | C1orf108 | 79647 |
| 222458_s_at | chromosome 1 open reading frame 108 | C1orf108 | 79647 |
| 222459_at | chromosome 1 open reading frame 108 | C1orf108 | 79647 |
| 220193_at | chromosome 1 open reading frame 113 | C1orf113 | 79729 |
| 222495_at | chromosome 1 open reading frame 119 /// similar to K07F5.15 | C1orf119 /// LOC7 | 56900 |
| 219875_s_at | chromosome 1 open reading frame 121 | C1orf121 | 51029 |
| 203197_s_at | chromosome 1 open reading frame 123 | C1orf123 | 54987 |
| 223124_s_at | chromosome 1 open reading frame 128 | C1orf128 | 57095 |
| 226242_at | chromosome 1 open reading frame 131 | C1orf131 | 128061 |
| 1557192_at | chromosome 1 open reading frame 136 | C1orf136 | --- |
| 225244_at | chromosome 1 open reading frame 142 | C1orf142 | 116841 |
| 212003_at | chromosome 1 open reading frame 144 | C1orf144 | 26099 |
| 212004_at | chromosome 1 open reading frame 144 | C1orf144 | 26099 |

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|--------------|---|---------------------------------|--------------|
| 218165_at | chromosome 1 open reading frame 149 | <i>C1orf149</i> | 64769 |
| 213528_at | chromosome 1 open reading frame 156 | <i>C1orf156</i> | 92342 |
| 219337_at | chromosome 1 open reading frame 159 | <i>C1orf159</i> | 54991 |
| 52078_at | chromosome 1 open reading frame 160 | <i>C1orf160</i> | 84065 |
| 228532_at | chromosome 1 open reading frame 162 | <i>C1orf162</i> | 128346 |
| 219988_s_at | chromosome 1 open reading frame 164 | <i>C1orf164</i> | 55182 |
| 1561976_at | chromosome 1 open reading frame 167 | <i>C1orf167</i> | 284498 |
| 222000_at | chromosome 1 open reading frame 174 | <i>C1orf174</i> | 339448 |
| 46167_at | tetratricopeptide repeat domain 4 /// chromosome 1 open reading frame 175 | <i>C1orf175</i> /// <i>TTC4</i> | 7268 |
| 1563743_at | chromosome 1 open reading frame 180 | <i>C1orf180</i> | 439927 |
| 218932_at | chromosome 1 open reading frame 181 | <i>C1orf181</i> | 54680 |
| 229608_at | chromosome 1 open reading frame 183 | <i>C1orf183</i> | 55924 |
| 1564164_at | chromosome 1 open reading frame 218 | <i>C1orf218</i> | 163486 |
| 219696_at | chromosome 1 open reading frame 218 | <i>C1orf218</i> | 163486 |
| 223548_at | chromosome 1 open reading frame 26 | <i>C1orf26</i> | 54823 |
| 207571_x_at | chromosome 1 open reading frame 38 | <i>C1orf38</i> | 9473 |
| 210785_s_at | chromosome 1 open reading frame 38 | <i>C1orf38</i> | 9473 |
| 223034_s_at | chromosome 1 open reading frame 43 | <i>C1orf43</i> | 25912 |
| 1555226_s_at | chromosome 1 open reading frame 43 | <i>C1orf43</i> | 25912 |
| 1555225_at | chromosome 1 open reading frame 43 | <i>C1orf43</i> | 25912 |
| 219406_at | chromosome 1 open reading frame 50 | <i>C1orf50</i> | 79078 |
| 244103_at | chromosome 1 open reading frame 55 | <i>C1orf55</i> | 163859 |
| 223272_s_at | chromosome 1 open reading frame 57 | <i>C1orf57</i> | 84284 |
| 241908_at | Chromosome 1 open reading frame 58 | <i>C1orf58</i> | 148362 |
| 226128_at | chromosome 1 open reading frame 58 | <i>C1orf58</i> | --- |
| 239078_at | chromosome 1 open reading frame 58 | <i>C1orf58</i> | 148362 |
| 225841_at | chromosome 1 open reading frame 59 | <i>C1orf59</i> | 113802 |
| 209007_s_at | chromosome 1 open reading frame 63 | <i>C1orf63</i> | 57035 |
| 209006_s_at | chromosome 1 open reading frame 63 | <i>C1orf63</i> | 57035 |
| 242283_at | chromosome 1 open reading frame 67 | <i>C1orf67</i> | 127602 /// : |
| 1554660_a_at | chromosome 1 open reading frame 71 | <i>C1orf71</i> | 163882 |
| 225550_at | chromosome 1 open reading frame 71 | <i>C1orf71</i> | 163882 |
| 225551_at | chromosome 1 open reading frame 71 | <i>C1orf71</i> | 163882 |
| 222752_s_at | chromosome 1 open reading frame 75 | <i>C1orf75</i> | 55248 |
| 202559_x_at | chromosome 1 open reading frame 77 | <i>C1orf77</i> | 26097 |
| 223774_at | chromosome 1 open reading frame 79 | <i>C1orf79</i> | 85028 |
| 223773_s_at | chromosome 1 open reading frame 79 | <i>C1orf79</i> | 85028 |
| 220199_s_at | chromosome 1 open reading frame 80 | <i>C1orf80</i> | 64853 |
| 1558692_at | chromosome 1 open reading frame 85 | <i>C1orf85</i> | 112770 |
| 1558693_s_at | chromosome 1 open reading frame 85 | <i>C1orf85</i> | 112770 |
| 203429_s_at | chromosome 1 open reading frame 9 | <i>C1orf9</i> | 51430 |
| 231835_at | chromosome 1 open reading frame 93 | <i>C1orf93</i> | 127281 |
| 1553698_a_at | chromosome 1 open reading frame 96 | <i>C1orf96</i> | 126731 |
| 225904_at | chromosome 1 open reading frame 96 | <i>C1orf96</i> | 126731 |
| 214214_s_at | complement component 1, q subcomponent binding protein | <i>C1QBP</i> | 708 |
| 208910_s_at | complement component 1, q subcomponent binding protein | <i>C1QBP</i> | 708 |
| 218983_at | complement component 1, r subcomponent-like | <i>C1RL</i> | 51279 |
| 224693_at | chromosome 20 open reading frame 108 | <i>C20orf108</i> | 116151 |
| 218448_at | chromosome 20 open reading frame 11 | <i>C20orf11</i> | 54994 |
| 225376_at | chromosome 20 open reading frame 11 | <i>C20orf11</i> | 54994 |
| 221954_at | Chromosome 20 open reading frame 111 | <i>C20orf111</i> | 51526 |
| 209020_at | chromosome 20 open reading frame 111 | <i>C20orf111</i> | 51526 |
| 226670_s_at | chromosome 20 open reading frame 119 | <i>C20orf119</i> | 80336 |
| 228031_at | chromosome 20 open reading frame 121 | <i>C20orf121</i> | 79183 |
| 1554041_at | chromosome 20 open reading frame 141 | <i>C20orf141</i> | 128653 |
| 233571_x_at | chromosome 20 open reading frame 149 | <i>C20orf149</i> | 79144 |
| 218010_x_at | chromosome 20 open reading frame 149 | <i>C20orf149</i> | 79144 |
| 1570070_at | chromosome 20 open reading frame 160 | <i>C20orf160</i> | 140706 |
| 231991_at | chromosome 20 open reading frame 160 | <i>C20orf160</i> | 140706 |
| 225313_at | chromosome 20 open reading frame 177 | <i>C20orf177</i> | 63939 |
| 228291_s_at | chromosome 20 open reading frame 19 | <i>C20orf19</i> | 55857 |
| 200856_x_at | nuclear receptor co-repressor 1 /// chromosome 20 open reading frame 191 | <i>C20orf191</i> /// <i>NCO</i> | 100133918 , |
| 225825_at | chromosome 20 open reading frame 194 | <i>C20orf194</i> | 25943 |

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|--------------|--|---------------------------|-----------|
| 1553311_at | chromosome 20 open reading frame 197 | <i>C20orf197</i> | 284756 |
| 226227_x_at | transaldolase 1 /// chromosome 20 open reading frame 199 | <i>C20orf199</i> /// TALL | 441951 |
| 224915_x_at | transaldolase 1 /// chromosome 20 open reading frame 199 | <i>C20orf199</i> /// TALL | 441951 |
| 226835_s_at | transaldolase 1 /// chromosome 20 open reading frame 199 | <i>C20orf199</i> /// TALL | 441951 |
| 218586_at | chromosome 20 open reading frame 20 | <i>C20orf20</i> | 55257 |
| 1553204_at | chromosome 20 open reading frame 200 | <i>C20orf200</i> | 253868 |
| 1553205_at | Chromosome 20 open reading frame 200 | <i>C20orf200</i> | 253868 |
| 50314_i_at | chromosome 20 open reading frame 27 | <i>C20orf27</i> | 54976 |
| 206656_s_at | chromosome 20 open reading frame 3 | <i>C20orf3</i> | 57136 |
| 233842_x_at | chromosome 20 open reading frame 43 | <i>C20orf43</i> | 51507 |
| 234926_s_at | chromosome 20 open reading frame 43 | <i>C20orf43</i> | 51507 |
| 224128_at | chromosome 20 open reading frame 43 | <i>C20orf43</i> | 51507 |
| 233451_at | chromosome 20 open reading frame 54 | <i>C20orf54</i> | 113278 |
| 222045_s_at | chromosome 20 open reading frame 67 | <i>C20orf67</i> | 63935 |
| 221762_s_at | chromosome 20 open reading frame 67 | <i>C20orf67</i> | 63935 |
| 89948_at | chromosome 20 open reading frame 67 | <i>C20orf67</i> | 63935 |
| 222044_at | chromosome 20 open reading frame 67 | <i>C20orf67</i> | 63935 |
| 225890_at | chromosome 20 open reading frame 72 | <i>C20orf72</i> | 92667 |
| 243689_s_at | Chromosome 20 open reading frame 80 | <i>C20orf80</i> | 284802 |
| 234949_at | Chromosome 20 open reading frame 80 | <i>C20orf80</i> | 284802 |
| 228247_at | Chromosome 20 open reading frame 80 /// CDNA FLJ45377 fis, clone BRHIP301 | <i>C20orf80</i> | 284802 |
| 235535_x_at | F5HD region gene 1 /// chromosome 20 open reading frame 80 /// similar to FR | <i>C20orf80</i> /// FRG1 | 100134091 |
| 1566927_at | chromosome 21 open reading frame 104 | <i>C21orf104</i> | 54748 |
| 1555373_at | chromosome 21 open reading frame 114 | <i>C21orf114</i> | --- |
| 232196_at | chromosome 21 open reading frame 13 | <i>C21orf13</i> | 150082 |
| 1562034_at | chromosome 21 open reading frame 134 | <i>C21orf134</i> | 727699 |
| 231491_at | chromosome 21 open reading frame 23 | <i>C21orf23</i> | 54088 |
| 1559412_at | chromosome 21 open reading frame 34 | <i>C21orf34</i> | 388815 |
| 240801_at | chromosome 21 open reading frame 37 | <i>C21orf37</i> | 54076 |
| 231303_at | chromosome 21 open reading frame 42 | <i>C21orf42</i> | 54072 |
| 219004_s_at | chromosome 21 open reading frame 45 | <i>C21orf45</i> | 54069 |
| 227421_at | chromosome 21 open reading frame 57 | <i>C21orf57</i> | 54059 |
| 239208_s_at | Chromosome 21 open reading frame 57 | <i>C21orf57</i> | 54059 |
| 242565_x_at | Chromosome 21 open reading frame 57 | <i>C21orf57</i> | 54059 |
| 218123_at | chromosome 21 open reading frame 59 | <i>C21orf59</i> | 56683 |
| 226995_at | Chromosome 21 open reading frame 86 | <i>C21orf86</i> | 257103 |
| 1552895_a_at | chromosome 21 open reading frame 99 | <i>C21orf99</i> | 149992 |
| 223039_at | chromosome 22 open reading frame 13 | <i>C22orf13</i> | 83606 |
| 200042_at | chromosome 22 open reading frame 28 | <i>C22orf28</i> | 51493 |
| 226204_at | chromosome 22 open reading frame 29 | <i>C22orf29</i> | 79680 |
| 1556072_at | chromosome 22 open reading frame 37 | <i>C22orf37</i> | 200298 |
| 212421_at | chromosome 22 open reading frame 9 | <i>C22orf9</i> | 23313 |
| 217118_s_at | chromosome 22 open reading frame 9 | <i>C22orf9</i> | 23313 |
| 1555100_at | chromosome 2 open reading frame 13 | <i>C2orf13</i> | 200558 |
| 1554444_s_at | chromosome 2 open reading frame 18 | <i>C2orf18</i> | 54978 |
| 225695_at | chromosome 2 open reading frame 18 | <i>C2orf18</i> | 54978 |
| 200070_at | chromosome 2 open reading frame 24 | <i>C2orf24</i> | 27013 |
| 207511_s_at | chromosome 2 open reading frame 24 | <i>C2orf24</i> | 27013 |
| 222832_s_at | chromosome 2 open reading frame 33 | <i>C2orf33</i> | 56947 |
| 223091_x_at | chromosome 2 open reading frame 33 | <i>C2orf33</i> | 56947 |
| 231921_at | chromosome 2 open reading frame 37 | <i>C2orf37</i> | 80067 |
| 219662_at | chromosome 2 open reading frame 49 | <i>C2orf49</i> | 79074 |
| 228067_at | chromosome 2 open reading frame 55 | <i>C2orf55</i> | 343990 |
| 224575_at | chromosome 3 open reading frame 10 | <i>C3orf10</i> | 55845 |
| 219288_at | chromosome 3 open reading frame 14 | <i>C3orf14</i> | 57415 |
| 1554528_at | chromosome 3 open reading frame 15 | <i>C3orf15</i> | 89876 |
| 225281_at | chromosome 3 open reading frame 17 | <i>C3orf17</i> | 25871 |
| 1558094_s_at | chromosome 3 open reading frame 19 | <i>C3orf19</i> | 51244 |
| 220942_x_at | chromosome 3 open reading frame 28 | <i>C3orf28</i> | 26355 |
| 223193_x_at | chromosome 3 open reading frame 28 | <i>C3orf28</i> | 26355 |
| 224345_x_at | chromosome 3 open reading frame 28 | <i>C3orf28</i> | 26355 |
| 1553158_at | chromosome 3 open reading frame 34 | <i>C3orf34</i> | 84984 |
| 238969_at | chromosome 3 open reading frame 55 | <i>C3orf55</i> | 152078 |

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|--------------|-------------------------------------|-----------------|--------------|
| 226464_at | chromosome 3 open reading frame 58 | <i>C3orf58</i> | 205428 |
| 209284_s_at | chromosome 3 open reading frame 63 | <i>C3orf63</i> | 23272 |
| 209285_s_at | chromosome 3 open reading frame 63 | <i>C3orf63</i> | 23272 |
| 1563207_at | Chromosome 3 open reading frame 65 | <i>C3orf65</i> | 646600 |
| 238081_at | chromosome 4 open reading frame 12 | <i>C4orf12</i> | 404201 |
| 223157_at | chromosome 4 open reading frame 14 | <i>C4orf14</i> | 84273 |
| 210054_at | chromosome 4 open reading frame 15 | <i>C4orf15</i> | 79441 |
| 223204_at | chromosome 4 open reading frame 18 | <i>C4orf18</i> | 51313 |
| 218449_at | chromosome 4 open reading frame 20 | <i>C4orf20</i> | 55325 |
| 230319_at | Chromosome 4 open reading frame 31 | <i>C4orf31</i> | --- |
| 227856_at | chromosome 4 open reading frame 32 | <i>C4orf32</i> | 132720 |
| 222336_at | chromosome 4 open reading frame 34 | <i>C4orf34</i> | 201895 |
| 224990_at | chromosome 4 open reading frame 34 | <i>C4orf34</i> | 201895 |
| 1555096_at | chromosome 4 open reading frame 37 | <i>C4orf37</i> | 285555 |
| 1553711_a_at | chromosome 4 open reading frame 39 | <i>C4orf39</i> | 152756 |
| 203600_s_at | chromosome 4 open reading frame 8 | <i>C4orf8</i> | 8603 |
| 220088_at | complement component 5a receptor 1 | <i>C5AR1</i> | 728 |
| 201310_s_at | chromosome 5 open reading frame 13 | <i>C5orf13</i> | 9315 |
| 229260_at | Chromosome 5 open reading frame 15 | <i>C5orf15</i> | 56951 |
| 203024_s_at | chromosome 5 open reading frame 15 | <i>C5orf15</i> | 56951 |
| 223882_at | chromosome 5 open reading frame 21 | <i>C5orf21</i> | 83989 |
| 212936_at | chromosome 5 open reading frame 21 | <i>C5orf21</i> | 83989 |
| 203738_at | chromosome 5 open reading frame 22 | <i>C5orf22</i> | 55322 |
| 1552660_a_at | chromosome 5 open reading frame 22 | <i>C5orf22</i> | 55322 |
| 224875_at | chromosome 5 open reading frame 24 | <i>C5orf24</i> | 134553 |
| 228805_at | chromosome 5 open reading frame 25 | <i>C5orf25</i> | 375484 |
| 219029_at | chromosome 5 open reading frame 28 | <i>C5orf28</i> | 64417 |
| 1552386_at | chromosome 5 open reading frame 29 | <i>C5orf29</i> | 202309 |
| 218588_s_at | chromosome 5 open reading frame 3 | <i>C5orf3</i> | 10827 |
| 221823_at | chromosome 5 open reading frame 30 | <i>C5orf30</i> | 90355 |
| 224707_at | chromosome 5 open reading frame 32 | <i>C5orf32</i> | 84418 |
| 226946_at | chromosome 5 open reading frame 33 | <i>C5orf33</i> | 133686 |
| 227267_at | chromosome 5 open reading frame 37 | <i>C5orf37</i> | 134359 |
| 226306_at | chromosome 6 open reading frame 1 | <i>C6orf1</i> | 221491 |
| 220614_s_at | chromosome 6 open reading frame 103 | <i>C6orf103</i> | 79747 |
| 217924_at | chromosome 6 open reading frame 106 | <i>C6orf106</i> | 64771 |
| 217925_s_at | chromosome 6 open reading frame 106 | <i>C6orf106</i> | 64771 |
| 205457_at | chromosome 6 open reading frame 106 | <i>C6orf106</i> | 64771 |
| 226135_at | chromosome 6 open reading frame 107 | <i>C6orf107</i> | 54887 |
| 232777_s_at | chromosome 6 open reading frame 118 | <i>C6orf118</i> | 168090 |
| 234097_s_at | chromosome 6 open reading frame 12 | <i>C6orf12</i> | 80862 |
| 234457_at | chromosome 6 open reading frame 12 | <i>C6orf12</i> | 80862 |
| 221787_at | chromosome 6 open reading frame 120 | <i>C6orf120</i> | 387263 |
| 238860_at | chromosome 6 open reading frame 130 | <i>C6orf130</i> | 221443 |
| 237619_at | chromosome 6 open reading frame 146 | <i>C6orf146</i> | 222826 |
| 1553274_a_at | chromosome 6 open reading frame 151 | <i>C6orf151</i> | 154007 |
| 220324_at | chromosome 6 open reading frame 155 | <i>C6orf155</i> | 79940 |
| 213312_at | chromosome 6 open reading frame 162 | <i>C6orf162</i> | 57150 |
| 223144_s_at | chromosome 6 open reading frame 166 | <i>C6orf166</i> | 55122 |
| 223145_s_at | chromosome 6 open reading frame 166 | <i>C6orf166</i> | 55122 |
| 223143_s_at | chromosome 6 open reading frame 166 | <i>C6orf166</i> | 55122 |
| 233050_at | chromosome 6 open reading frame 174 | <i>C6orf174</i> | 387104 /// ? |
| 1554019_s_at | chromosome 6 open reading frame 182 | <i>C6orf182</i> | 221017 /// ? |
| 228875_at | chromosome 6 open reading frame 189 | <i>C6orf189</i> | 221303 |
| 226301_at | chromosome 6 open reading frame 192 | <i>C6orf192</i> | 116843 |
| 223576_at | chromosome 6 open reading frame 203 | <i>C6orf203</i> | 51250 |
| 228007_at | chromosome 6 open reading frame 204 | <i>C6orf204</i> | 387119 |
| 218195_at | chromosome 6 open reading frame 211 | <i>C6orf211</i> | 79624 |
| 209829_at | chromosome 6 open reading frame 32 | <i>C6orf32</i> | 9750 |
| 220755_s_at | chromosome 6 open reading frame 48 | <i>C6orf48</i> | 50854 |
| 218233_s_at | chromosome 6 open reading frame 49 | <i>C6orf49</i> | 100188893 , |
| 223516_s_at | chromosome 6 open reading frame 49 | <i>C6orf49</i> | 100188893 , |
| 238385_at | Chromosome 6 open reading frame 58 | <i>C6orf58</i> | 352999 |

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|--------------|---|----------------------------------|--------|
| 220150_s_at | chromosome 6 open reading frame 60 | <i>C6orf60</i> | 79632 |
| 213872_at | Chromosome 6 open reading frame 62 | <i>C6orf62</i> | --- |
| 222309_at | Chromosome 6 open reading frame 62 | <i>C6orf62</i> | 81688 |
| 222741_s_at | chromosome 6 open reading frame 64 | <i>C6orf64</i> | 55776 |
| 219006_at | chromosome 6 open reading frame 66 | <i>C6orf66</i> | 29078 |
| 225576_at | chromosome 6 open reading frame 72 | <i>C6orf72</i> | 116254 |
| 233206_at | chromosome 6 open reading frame 85 | <i>C6orf85</i> | 63027 |
| 242055_at | Chromosome 6 open reading frame 86 | <i>C6orf86</i> | --- |
| 228217_s_at | chromosome 6 open reading frame 86 | <i>C6orf86</i> | 389362 |
| 224987_at | chromosome 6 open reading frame 89 | <i>C6orf89</i> | 221477 |
| 224977_at | chromosome 6 open reading frame 89 | <i>C6orf89</i> | 221477 |
| 224808_s_at | chromosome 7 open reading frame 20 | <i>C7orf20</i> | 51608 |
| 204215_at | chromosome 7 open reading frame 23 | <i>C7orf23</i> | 79161 |
| 215380_s_at | chromosome 7 open reading frame 24 | <i>C7orf24</i> | 79017 |
| 53202_at | chromosome 7 open reading frame 25 | <i>C7orf25</i> | 79020 |
| 221573_at | chromosome 7 open reading frame 25 | <i>C7orf25</i> | 79020 |
| 201974_s_at | chromosome 7 open reading frame 28A /// chromosome 7 open reading frame | <i>C7orf28A</i> /// <i>C7orf</i> | 51622 |
| 244641_at | chromosome 7 open reading frame 30 | <i>C7orf30</i> | 115416 |
| 230516_at | Chromosome 7 open reading frame 30 | <i>C7orf30</i> | 115416 |
| 229146_at | chromosome 7 open reading frame 31 | <i>C7orf31</i> | 136895 |
| 226018_at | chromosome 7 open reading frame 41 | <i>C7orf41</i> | 222166 |
| 220659_s_at | chromosome 7 open reading frame 43 | <i>C7orf43</i> | 55262 |
| 232330_at | Chromosome 7 open reading frame 44 | <i>C7orf44</i> | --- |
| 209446_s_at | chromosome 7 open reading frame 44 | <i>C7orf44</i> | 55744 |
| 209445_x_at | chromosome 7 open reading frame 44 | <i>C7orf44</i> | 55744 |
| 239490_at | chromosome 7 open reading frame 44 | <i>C7orf44</i> | 55744 |
| 226434_at | chromosome 7 open reading frame 47 | <i>C7orf47</i> | 221908 |
| 221629_x_at | chromosome 8 open reading frame 30A | <i>C8orf30A</i> | 51236 |
| 219071_x_at | chromosome 8 open reading frame 30A | <i>C8orf30A</i> | 51236 |
| 218187_s_at | chromosome 8 open reading frame 33 | <i>C8orf33</i> | 65265 |
| 235509_at | chromosome 8 open reading frame 38 | <i>C8orf38</i> | 137682 |
| 219124_at | chromosome 8 open reading frame 41 | <i>C8orf41</i> | 80185 |
| 1555243_x_at | chromosome 8 open reading frame 59 | <i>C8orf59</i> | 401466 |
| 220712_at | chromosome 8 open reading frame 60 | <i>C8orf60</i> | 619426 |
| 1558790_s_at | chromosome 8 open reading frame 77 | <i>C8orf77</i> | 286103 |
| 218565_at | chromosome 9 open reading frame 114 | <i>C9orf114</i> | 51490 |
| 226027_at | chromosome 9 open reading frame 119 | <i>C9orf119</i> | 375757 |
| 224860_at | chromosome 9 open reading frame 123 | <i>C9orf123</i> | 90871 |
| 213386_at | chromosome 9 open reading frame 125 | <i>C9orf125</i> | 84302 |
| 243610_at | chromosome 9 open reading frame 135 | <i>C9orf135</i> | 138255 |
| 1559293_x_at | Chromosome 9 open reading frame 14 | <i>C9orf14</i> | 158035 |
| 233589_x_at | chromosome 9 open reading frame 167 | <i>C9orf167</i> | 54863 |
| 227534_at | chromosome 9 open reading frame 21 | <i>C9orf21</i> | 195827 |
| 223368_s_at | chromosome 9 open reading frame 32 | <i>C9orf32</i> | 28989 |
| 223369_at | chromosome 9 open reading frame 32 | <i>C9orf32</i> | 28989 |
| 241696_at | Chromosome 9 open reading frame 39 | <i>C9orf39</i> | 54875 |
| 228324_at | chromosome 9 open reading frame 41 | <i>C9orf41</i> | 138199 |
| 223006_s_at | chromosome 9 open reading frame 5 | <i>C9orf5</i> | 23731 |
| 223005_s_at | chromosome 9 open reading frame 5 | <i>C9orf5</i> | 23731 |
| 223007_s_at | chromosome 9 open reading frame 5 | <i>C9orf5</i> | 23731 |
| 223008_s_at | chromosome 9 open reading frame 5 | <i>C9orf5</i> | 23731 |
| 240316_at | chromosome 9 open reading frame 57 | <i>C9orf57</i> | 138240 |
| 223075_s_at | chromosome 9 open reading frame 58 | <i>C9orf58</i> | 83543 |
| 213900_at | chromosome 9 open reading frame 61 | <i>C9orf61</i> | 9413 |
| 235940_at | chromosome 9 open reading frame 64 | <i>C9orf64</i> | 84267 |
| 224962_at | chromosome 9 open reading frame 69 | <i>C9orf69</i> | 90120 |
| 225919_s_at | chromosome 9 open reading frame 72 | <i>C9orf72</i> | 203228 |
| 1553133_at | chromosome 9 open reading frame 72 | <i>C9orf72</i> | 203228 |
| 1553134_s_at | chromosome 9 open reading frame 72 | <i>C9orf72</i> | 203228 |
| 219276_x_at | chromosome 9 open reading frame 82 | <i>C9orf82</i> | 79886 |
| 235866_at | chromosome 9 open reading frame 85 | <i>C9orf85</i> | 138241 |
| 223398_at | chromosome 9 open reading frame 89 | <i>C9orf89</i> | 84270 |
| 221865_at | chromosome 9 open reading frame 91 | <i>C9orf91</i> | 203197 |

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|--------------|---|------------------------------------|-------------|
| 1558082_at | chromosome 9 open reading frame 93 | <i>C9orf93</i> | 203238 |
| 1562761_at | chromosome 9 open reading frame 95 | <i>C9orf95</i> | 54981 |
| 1557666_s_at | chromosome 9 open reading frame 98 | <i>C9orf98</i> | 158067 |
| 205949_at | carbonic anhydrase I | <i>CA1</i> | 759 |
| 205950_s_at | carbonic anhydrase I | <i>CA1</i> | 759 |
| 206209_s_at | carbonic anhydrase IV | <i>CA4</i> | 762 |
| 206208_at | carbonic anhydrase IV | <i>CA4</i> | 762 |
| 225914_s_at | calcium binding protein 39-like | <i>CAB39L</i> | 81617 |
| 218168_s_at | chaperone, ABC1 activity of bc1 complex homolog (S. pombe) | <i>CABC1</i> | 56997 |
| 202624_s_at | calcineurin binding protein 1 | <i>CABIN1</i> | 23523 |
| 37652_at | calcineurin binding protein 1 | <i>CABIN1</i> | 23523 |
| 214933_at | calcium channel, voltage-dependent, P/Q type, alpha 1A subunit | <i>CACNA1A</i> | 773 |
| 1552863_a_at | calcium channel, voltage-dependent, gamma subunit 6 | <i>CACNG6</i> | 59285 |
| 224137_at | calcium channel, voltage-dependent, gamma subunit 7 | <i>CACNG7</i> | 59284 |
| 209031_at | cell adhesion molecule 1 | <i>CADM1</i> | 23705 |
| 209032_s_at | cell adhesion molecule 1 | <i>CADM1</i> | 23705 |
| 1552754_a_at | cell adhesion molecule 2 | <i>CADM2</i> | 253559 |
| 1552752_a_at | cell adhesion molecule 2 | <i>CADM2</i> | 253559 |
| 205626_s_at | calbindin 1, 28kDa | <i>CALB1</i> | 793 |
| 205625_s_at | calbindin 1, 28kDa | <i>CALB1</i> | 793 |
| 209002_s_at | calcium binding and coiled-coil domain 1 | <i>CALCOCO1</i> | 57658 |
| 1560631_at | calcium binding and coiled-coil domain 2 | <i>CALCOCO2</i> | 10241 |
| 210817_s_at | calcium binding and coiled-coil domain 2 | <i>CALCOCO2</i> | 10241 |
| 206331_at | calcitonin receptor-like | <i>CALCRL</i> | 10203 |
| 211985_s_at | calmodulin 1 (phosphorylase kinase, delta) | <i>CALM1</i> | 801 /// 805 |
| 211984_at | calmodulin 1 (phosphorylase kinase, delta) | <i>CALM1</i> | 801 /// 805 |
| 241619_at | calmodulin 1 (phosphorylase kinase, delta) | <i>CALM1</i> | 801 /// 805 |
| 200622_x_at | calmodulin 3 (phosphorylase kinase, delta) | <i>CALM3</i> | 801 /// 805 |
| 200623_s_at | calmodulin 3 (phosphorylase kinase, delta) | <i>CALM3</i> | 801 /// 805 |
| 64408_s_at | calmodulin-like 4 | <i>CALML4</i> | 91860 |
| 221879_at | calmodulin-like 4 | <i>CALML4</i> | 91860 |
| 214315_x_at | calreticulin | <i>CALR</i> | 811 |
| 212953_x_at | calreticulin | <i>CALR</i> | 811 |
| 226959_at | calcium/calmodulin-dependent protein kinase ID | <i>CAMK1D</i> | 283070 |
| 235626_at | calcium/calmodulin-dependent protein kinase ID | <i>CAMK1D</i> | 57118 |
| 226382_at | calcium/calmodulin-dependent protein kinase ID /// hypothetical protein LOC283070 | <i>CAMK1D</i> /// <i>LOC283070</i> | 283070 |
| 217128_s_at | calcium/calmodulin-dependent protein kinase IG | <i>CAMK1G</i> | 57172 |
| 215161_at | calcium/calmodulin-dependent protein kinase IG | <i>CAMK1G</i> | 57172 |
| 231042_s_at | Calcium/calmodulin-dependent protein kinase (CaM kinase) II delta | <i>CAMK2D</i> | 817 |
| 228555_at | Calcium/calmodulin-dependent protein kinase (CaM kinase) II delta | <i>CAMK2D</i> | 817 |
| 231793_s_at | calcium/calmodulin-dependent protein kinase (CaM kinase) II delta | <i>CAMK2D</i> | 817 |
| 218309_at | calcium/calmodulin-dependent protein kinase II inhibitor 1 | <i>CAMK2N1</i> | 55450 |
| 210787_s_at | calcium/calmodulin-dependent protein kinase kinase 2, beta | <i>CAMKK2</i> | 10645 |
| 212252_at | calcium/calmodulin-dependent protein kinase kinase 2, beta | <i>CAMKK2</i> | 10645 |
| 213812_s_at | calcium/calmodulin-dependent protein kinase kinase 2, beta | <i>CAMKK2</i> | 10645 |
| 203538_at | calcium modulating ligand | <i>CAMLG</i> | 819 |
| 210244_at | cathelicidin antimicrobial peptide | <i>CAMP</i> | 820 |
| 212712_at | calmodulin regulated spectrin-associated protein 1 | <i>CAMSAP1</i> | 157922 |
| 212765_at | calmodulin regulated spectrin-associated protein 1-like 1 | <i>CAMSAP1L1</i> | 23271 |
| 217196_s_at | calmodulin regulated spectrin-associated protein 1-like 1 | <i>CAMSAP1L1</i> | 23271 |
| 1555370_a_at | calmodulin binding transcription activator 1 | <i>CAMTA1</i> | 23261 |
| 239771_at | cullin-associated and neddylation-dissociated 1 | <i>CAND1</i> | 55832 |
| 208838_at | cullin-associated and neddylation-dissociated 1 | <i>CAND1</i> | 55832 |
| 46323_at | calcium activated nucleotidase 1 | <i>CANT1</i> | 124583 |
| 221732_at | calcium activated nucleotidase 1 | <i>CANT1</i> | 124583 |
| 1554327_a_at | calcium activated nucleotidase 1 | <i>CANT1</i> | 124583 |
| 200068_s_at | calnexin | <i>CANX</i> | 821 |
| 238034_at | calnexin | <i>CANX</i> | 821 |
| 208853_s_at | calnexin | <i>CANX</i> | 821 |
| 208852_s_at | calnexin | <i>CANX</i> | 821 |
| 212551_at | CAP, adenylate cyclase-associated protein, 2 (yeast) | <i>CAP2</i> | 10486 |
| 234709_at | calpain 13 | <i>CAPN13</i> | 92291 |
| 208683_at | calpain 2, (m/II) large subunit | <i>CAPN2</i> | 824 |

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|-------------|--|--------------------------|---------------|
| 214888_at | calpain 2, (m/II) large subunit | <i>CAPN2</i> | 824 |
| 210944_s_at | calpain 3, (p94) | <i>CAPN3</i> | 825 |
| 203357_s_at | calpain 7 | <i>CAPN7</i> | 23473 |
| 203356_at | calpain 7 | <i>CAPN7</i> | 23473 |
| 210641_at | calpain 9 | <i>CAPN9</i> | 10753 |
| 226990_at | cell cycle associated protein 1 | <i>CAPRIN1</i> | 4076 |
| 226285_at | cell cycle associated protein 1 | <i>CAPRIN1</i> | 4076 |
| 200722_s_at | cell cycle associated protein 1 | <i>CAPRIN1</i> | 4076 |
| 218456_at | caprin family member 2 | <i>CAPRIN2</i> | 65981 |
| 224370_s_at | calcyphosine 2 | <i>CAPS2</i> | 84698 |
| 201238_s_at | capping protein (actin filament) muscle Z-line, alpha 2 | <i>CAPZA2</i> | 830 |
| 224414_s_at | caspase recruitment domain family, member 6 | <i>CARD6</i> | 84674 |
| 204950_at | caspase recruitment domain family, member 8 | <i>CARD8</i> | 22900 |
| 212971_at | cysteinyI-tRNA synthetase | <i>CARS</i> | 833 |
| 240983_s_at | cysteinyI-tRNA synthetase | <i>CARS</i> | 833 |
| 218153_at | cysteinyI-tRNA synthetase 2, mitochondrial (putative) | <i>CARS2</i> | 79587 |
| 207842_s_at | cancer susceptibility candidate 3 | <i>CASC3</i> | 22794 |
| 228323_at | cancer susceptibility candidate 5 | <i>CASC5</i> | 57082 |
| 219342_at | CAS1 domain containing 1 | <i>CASD1</i> | 64921 |
| 243500_at | CAS1 domain containing 1 | <i>CASD1</i> | 64921 |
| 226032_at | caspase 2, apoptosis-related cysteine peptidase (neural precursor cell expressed) | <i>CASP2</i> | 835 |
| 211464_x_at | caspase 6, apoptosis-related cysteine peptidase | <i>CASP6</i> | 839 |
| 213373_s_at | caspase 8, apoptosis-related cysteine peptidase | <i>CASP8</i> | 841 |
| 222201_s_at | CASP8 associated protein 2 | <i>CASP8AP2</i> | 9994 |
| 210775_x_at | caspase 9, apoptosis-related cysteine peptidase | <i>CASP9</i> | 842 |
| 207467_x_at | calpastatin | <i>CAST</i> | 831 |
| 208908_s_at | calpastatin | <i>CAST</i> | 831 |
| 212586_at | calpastatin | <i>CAST</i> | 831 |
| 211922_s_at | catalase | <i>CAT</i> | 847 |
| 201432_at | catalase | <i>CAT</i> | 847 |
| 238363_at | Catalase | <i>CAT</i> | 847 |
| 217588_at | cation channel, sperm associated 2 /// cation channel, sperm associated 2 pseudogene | <i>CATSPER2 /// CATS</i> | 117155 /// 64 |
| 203323_at | caveolin 2 | <i>CAV2</i> | 858 |
| 203324_s_at | caveolin 2 | <i>CAV2</i> | 858 |
| 238549_at | core-binding factor, runt domain, alpha subunit 2; translocated to, 2 | <i>CBFA2T2</i> | 9139 |
| 209145_s_at | core-binding factor, runt domain, alpha subunit 2; translocated to, 2 | <i>CBFA2T2</i> | 9139 |
| 225231_at | Cas-Br-M (murine) ecotropic retroviral transforming sequence | <i>CBL</i> | 867 |
| 225234_at | Cas-Br-M (murine) ecotropic retroviral transforming sequence | <i>CBL</i> | 867 |
| 209682_at | Cas-Br-M (murine) ecotropic retroviral transforming sequence b | <i>CBLB</i> | 868 |
| 220018_at | Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1 | <i>CBLL1</i> | 79872 |
| 213626_at | carbonyl reductase 4 | <i>CBR4</i> | 84869 |
| 201518_at | chromobox homolog 1 (HP1 beta homolog Drosophila) | <i>CBX1</i> | 10951 |
| 201091_s_at | chromobox homolog 3 (HP1 gamma homolog, Drosophila) /// similar to chromobox homolog 3 (HP1 gamma homolog, Drosophila) | <i>CBX3 /// LOC65397</i> | 11335 /// 64 |
| 227558_at | chromobox homolog 4 (Pc class homolog, Drosophila) | <i>CBX4</i> | 8535 |
| 225323_at | coiled-coil and C2 domain containing 1B | <i>CC2D1B</i> | 200014 |
| 227748_at | cysteine conjugate-beta lyase 2 | <i>CCBL2</i> | 56267 |
| 1554606_at | coiled-coil domain containing 100 | <i>CCDC100</i> | 153241 |
| 226449_at | coiled-coil domain containing 100 | <i>CCDC100</i> | 153241 |
| 48117_at | coiled-coil domain containing 101 | <i>CCDC101</i> | 112869 |
| 221822_at | coiled-coil domain containing 101 | <i>CCDC101</i> | 112869 |
| 224968_at | coiled-coil domain containing 104 | <i>CCDC104</i> | 112942 |
| 229063_s_at | coiled-coil domain containing 107 | <i>CCDC107</i> | 203260 |
| 227157_at | coiled-coil domain containing 111 | <i>CCDC111</i> | 201973 |
| 235208_at | coiled-coil domain containing 112 | <i>CCDC112</i> | 153733 |
| 226011_at | coiled-coil domain containing 12 | <i>CCDC12</i> | 151903 |
| 1553894_at | coiled-coil domain containing 122 | <i>CCDC122</i> | 160857 |
| 229082_at | coiled-coil domain containing 125 | <i>CCDC125</i> | 202243 |
| 1553955_at | coiled-coil domain containing 128 | <i>CCDC128</i> | 129285 |
| 231653_at | coiled-coil domain containing 129 | <i>CCDC129</i> | 223075 |
| 1553736_at | coiled-coil domain containing 131 | <i>CCDC131</i> | 196441 |
| 226031_at | coiled-coil domain containing 132 | <i>CCDC132</i> | 55610 |
| 232945_at | Coiled-coil domain containing 139 | <i>CCDC139</i> | 150962 |
| 225017_at | coiled-coil domain containing 14 | <i>CCDC14</i> | 64770 |

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|--------------|--|---------------------------------|--------------|
| 219470_x_at | cyclin J | <i>CCNJ</i> | 54619 |
| 229091_s_at | cyclin J | <i>CCNJ</i> | 54619 |
| 225824_at | cyclin K | <i>CCNK</i> | 8812 |
| 241495_at | cyclin L1 | <i>CCNL1</i> | 57018 |
| 220046_s_at | cyclin L1 | <i>CCNL1</i> | 57018 |
| 1555411_a_at | cyclin L1 | <i>CCNL1</i> | 57018 |
| 225555_x_at | Cyclin L2 | <i>CCNL2</i> | 54998 |
| 221427_s_at | cyclin L2 /// similar to Cyclin-L2 (Paneth cell-enhanced expression protein) | <i>CCNL2</i> /// <i>LOC7278</i> | 81669 |
| 214638_s_at | cyclin T2 | <i>CCNT2</i> | 905 |
| 224651_at | cyclin Y | <i>CCNY</i> | 219771 |
| 224652_at | cyclin Y | <i>CCNY</i> | 219771 |
| 224647_at | cyclin Y | <i>CCNY</i> | 219771 |
| 224649_x_at | cyclin Y | <i>CCNY</i> | 219771 |
| 228810_at | cyclin Y-like 1 | <i>CCNYL1</i> | 151195 |
| 214152_at | cell cycle progression 1 | <i>CCPG1</i> | 9236 |
| 222156_x_at | cell cycle progression 1 | <i>CCPG1</i> | 9236 |
| 221511_x_at | cell cycle progression 1 | <i>CCPG1</i> | 9236 |
| 214151_s_at | cell cycle progression 1 | <i>CCPG1</i> | 9236 |
| 221156_x_at | cell cycle progression 1 | <i>CCPG1</i> | 9236 |
| 205099_s_at | chemokine (C-C motif) receptor 1 | <i>CCR1</i> | 1230 |
| 205098_at | chemokine (C-C motif) receptor 1 | <i>CCR1</i> | 1230 |
| 206978_at | chemokine (C-C motif) receptor 2 /// similar to C-C chemokine receptor type 2 (| <i>CCR2</i> /// <i>LOC72925</i> | 1231 /// 729 |
| 208304_at | chemokine (C-C motif) receptor 3 | <i>CCR3</i> | 1232 |
| 206337_at | chemokine (C-C motif) receptor 7 | <i>CCR7</i> | 1236 |
| 220351_at | chemokine (C-C motif) receptor-like 1 | <i>CCRL1</i> | 51554 |
| 211434_s_at | chemokine (C-C motif) receptor-like 2 /// similar to chemokine (C-C motif) recep | <i>CCRL2</i> /// <i>LOC7278</i> | 727811 /// 9 |
| 203522_at | copper chaperone for superoxide dismutase | <i>CCS</i> | 9973 |
| 201947_s_at | chaperonin containing TCP1, subunit 2 (beta) | <i>CCT2</i> | 10576 |
| 201946_s_at | chaperonin containing TCP1, subunit 2 (beta) | <i>CCT2</i> | 10576 |
| 200910_at | chaperonin containing TCP1, subunit 3 (gamma) | <i>CCT3</i> | 7203 |
| 200877_at | chaperonin containing TCP1, subunit 4 (delta) | <i>CCT4</i> | 10575 |
| 201327_s_at | chaperonin containing TCP1, subunit 6A (zeta 1) | <i>CCT6A</i> | 908 |
| 227301_at | chaperonin containing TCP1, subunit 6A (zeta 1) pseudogene 1 | <i>CCT6AP1</i> | 643253 /// 6 |
| 229900_at | CD109 molecule | <i>CD109</i> | 135228 |
| 215049_x_at | CD163 molecule | <i>CD163</i> | 9332 |
| 208653_s_at | CD164 molecule, sialomucin | <i>CD164</i> | 8763 |
| 205831_at | CD2 molecule | <i>CD2</i> | 914 |
| 1553395_a_at | CD200 receptor 1 | <i>CD200R1</i> | 131450 |
| 204581_at | CD22 molecule /// myelin associated glycoprotein | <i>CD22</i> /// <i>MAG</i> | 933 |
| 217422_s_at | CD22 molecule /// myelin associated glycoprotein | <i>CD22</i> /// <i>MAG</i> | 933 |
| 266_s_at | CD24 molecule | <i>CD24</i> | 100133941 |
| 216379_x_at | CD24 molecule | <i>CD24</i> | 100133941 |
| 208651_x_at | CD24 molecule | <i>CD24</i> | 100133941 |
| 209771_x_at | CD24 molecule | <i>CD24</i> | 100133941 |
| 209772_s_at | CD24 molecule | <i>CD24</i> | 100133941 |
| 223834_at | CD274 molecule | <i>CD274</i> | 29126 |
| 206545_at | CD28 molecule | <i>CD28</i> | 940 |
| 203593_at | CD2-associated protein | <i>CD2AP</i> | 23607 |
| 202257_s_at | CD2 (cytoplasmic tail) binding protein 2 | <i>CD2BP2</i> | 10421 |
| 209933_s_at | CD300a molecule | <i>CD300A</i> | 11314 |
| 217078_s_at | CD300a molecule | <i>CD300A</i> | 11314 |
| 1553043_a_at | CD300 molecule-like family member f | <i>CD300LF</i> | 146722 |
| 203799_at | CD302 molecule | <i>CD302</i> | 9936 |
| 242197_x_at | CD36 molecule (thrombospondin receptor) | <i>CD36</i> | 948 |
| 228766_at | CD36 molecule (thrombospondin receptor) | <i>CD36</i> | 948 |
| 213539_at | CD3d molecule, delta (CD3-TCR complex) | <i>CD3D</i> | 915 |
| 205456_at | CD3e molecule, epsilon (CD3-TCR complex) | <i>CD3E</i> | 916 |
| 35150_at | CD40 molecule, TNF receptor superfamily member 5 | <i>CD40</i> | 958 |
| 216056_at | CD44 molecule (Indian blood group) | <i>CD44</i> | 960 |
| 217523_at | CD44 molecule (Indian blood group) | <i>CD44</i> | 960 |
| 1565868_at | CD44 molecule (Indian blood group) | <i>CD44</i> | 960 |
| 210916_s_at | CD44 molecule (Indian blood group) | <i>CD44</i> | 960 |
| 212014_x_at | CD44 molecule (Indian blood group) | <i>CD44</i> | 960 |

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|--------------|--|---------------------------------|--------------|
| 226056_at | Cdc42 GTPase-activating protein | <i>CDGAP</i> | 57514 |
| 220115_s_at | cadherin 10, type 2 (T2-cadherin) | <i>CDH10</i> | 1008 |
| 206898_at | cadherin 19, type 2 | <i>CDH19</i> | 28513 |
| 1569679_at | cadherin-like 22 | <i>CDH22</i> | 64405 |
| 224527_at | cadherin-like 23 | <i>CDH23</i> | 64072 |
| 214803_at | cadherin 6, type 2, K-cadherin (fetal kidney) | <i>CDH6</i> | --- |
| 217574_at | cadherin 8, type 2 | <i>CDH8</i> | 1006 |
| 207729_at | cadherin 9, type 2 (T1-cadherin) | <i>CDH9</i> | 1007 |
| 201253_s_at | CDP-diacylglycerol--inositol 3-phosphatidyltransferase (phosphatidylinositol syn | <i>CDIPT</i> | 10423 |
| 204252_at | cyclin-dependent kinase 2 | <i>CDK2</i> | 1017 |
| 211804_s_at | cyclin-dependent kinase 2 | <i>CDK2</i> | 1017 |
| 201938_at | CDK2-associated protein 1 | <i>CDK2AP1</i> | 8099 |
| 204995_at | cyclin-dependent kinase 5, regulatory subunit 1 (p35) | <i>CDK5R1</i> | 8851 |
| 235287_at | cyclin-dependent kinase 6 | <i>CDK6</i> | 1021 |
| 224847_at | cyclin-dependent kinase 6 | <i>CDK6</i> | 1021 |
| 211297_s_at | cyclin-dependent kinase 7 (MO15 homolog, Xenopus laevis, cdk-activating kinas | <i>CDK7</i> | 1022 |
| 1553113_s_at | cyclin-dependent kinase 8 | <i>CDK8</i> | 1024 |
| 236331_at | cyclin-dependent kinase-like 2 (CDC2-related kinase) | <i>CDKL2</i> | 8999 |
| 202284_s_at | cyclin-dependent kinase inhibitor 1A (p21, Cip1) | <i>CDKN1A</i> | 1026 |
| 213183_s_at | Cyclin-dependent kinase inhibitor 1C (p57, Kip2) | <i>CDKN1C</i> | 1028 |
| 222063_s_at | CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 1 | <i>CDS1</i> | 1040 |
| 212864_at | CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 2 | <i>CDS2</i> | 8760 |
| 233630_at | CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 2 | <i>CDS2</i> | 8760 |
| 212862_at | CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 2 | <i>CDS2</i> | 8760 |
| 213554_s_at | CDV3 homolog (mouse) | <i>CDV3</i> | 55573 |
| 207205_at | carcinoembryonic antigen-related cell adhesion molecule 4 | <i>CEACAM4</i> | 1089 |
| 201884_at | carcinoembryonic antigen-related cell adhesion molecule 5 | <i>CEACAM5</i> | 1048 |
| 203757_s_at | carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross r | <i>CEACAM6</i> | 4680 |
| 211657_at | carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross r | <i>CEACAM6</i> | 4680 |
| 206676_at | carcinoembryonic antigen-related cell adhesion molecule 8 | <i>CEACAM8</i> | 1088 |
| 204039_at | CCAAT/enhancer binding protein (C/EBP), alpha | <i>CEBPA</i> | 1050 |
| 212501_at | CCAAT/enhancer binding protein (C/EBP), beta | <i>CEBPB</i> | 1051 |
| 203973_s_at | CCAAT/enhancer binding protein (C/EBP), delta | <i>CEBPD</i> | 1052 |
| 213006_at | CCAAT/enhancer binding protein (C/EBP), delta | <i>CEBPD</i> | 1052 |
| 214523_at | CCAAT/enhancer binding protein (C/EBP), epsilon | <i>CEBPE</i> | 1053 |
| 223729_at | cat eye syndrome chromosome region, candidate 2 | <i>CECR2</i> | 27443 |
| 218592_s_at | cat eye syndrome chromosome region, candidate 5 | <i>CECR5</i> | 27440 |
| 204029_at | cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila | <i>CELSR2</i> | 1952 |
| 212437_at | centromere protein B, 80kDa | <i>CENPB</i> | 1059 |
| 204739_at | centromere protein C 1 | <i>CENPC1</i> | 1060 |
| 223513_at | centromere protein J | <i>CENPJ</i> | 55835 |
| 222848_at | centromere protein K | <i>CENPK</i> | 64105 |
| 242207_at | centromere protein P | <i>CENPP</i> | 100128361 |
| 219294_at | centromere protein Q | <i>CENPQ</i> | 55166 |
| 90265_at | centaurin, alpha 1 | <i>CENTA1</i> | 11033 |
| 219358_s_at | centaurin, alpha 2 | <i>CENTA2</i> | 55803 |
| 205213_at | centaurin, beta 1 | <i>CENTB1</i> | 9744 |
| 212476_at | centaurin, beta 2 | <i>CENTB2</i> | 23527 |
| 1552472_a_at | centaurin, beta 2 | <i>CENTB2</i> | 23527 |
| 214102_at | centaurin, delta 1 | <i>CENTD1</i> | 116984 |
| 34206_at | centaurin, delta 2 | <i>CENTD2</i> | 116985 |
| 212516_at | centaurin, delta 2 | <i>CENTD2</i> | 116985 |
| 225789_at | centaurin, gamma 3 | <i>CENTG3</i> | 116988 |
| 231299_at | centaurin, gamma 3 | <i>CENTG3</i> | 116988 |
| 242916_at | centrosomal protein 110kDa | <i>CEP110</i> | 11064 |
| 205642_at | centrosomal protein 110kDa | <i>CEP110</i> | 11064 |
| 215170_s_at | centrosomal protein 152kDa | <i>CEP152</i> | 22995 |
| 204251_s_at | centrosomal protein 164kDa | <i>CEP164</i> | 22897 |
| 1558953_s_at | centrosomal protein 164kDa | <i>CEP164</i> | 22897 |
| 212746_s_at | centrosomal protein 170kDa | <i>CEP170</i> | 9859 |
| 1552717_s_at | centrosomal protein 170kDa /// centrosomal protein 170kDa-like | <i>CEP170</i> /// <i>CEP170</i> | 645455 /// 9 |
| 205250_s_at | centrosomal protein 290kDa | <i>CEP290</i> | 80184 |
| 213165_at | centrosomal protein 350kDa | <i>CEP350</i> | 9857 |

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|--------------|---|----------------|--------|
| 219242_at | centrosomal protein 63kDa | <i>CEP63</i> | 80254 |
| 222151_s_at | centrosomal protein 63kDa | <i>CEP63</i> | 80254 |
| 212677_s_at | centrosomal protein 68kDa | <i>CEP68</i> | 23177 |
| 212675_s_at | centrosomal protein 68kDa | <i>CEP68</i> | 23177 |
| 224150_s_at | centrosomal protein 70kDa | <i>CEP70</i> | 80321 |
| 52285_f_at | centrosomal protein 76kDa | <i>CEP76</i> | 79959 |
| 228774_at | centrosomal protein 78kDa | <i>CEP78</i> | 84131 |
| 1561884_at | choline/ethanolamine phosphotransferase 1 | <i>CEPT1</i> | 10390 |
| 219375_at | choline/ethanolamine phosphotransferase 1 | <i>CEPT1</i> | 10390 |
| 218421_at | ceramide kinase | <i>CERK</i> | 64781 |
| 220335_x_at | carboxylesterase 3 (brain) | <i>CES3</i> | 23491 |
| 209194_at | centrin, EF-hand protein, 2 | <i>CETN2</i> | 1069 |
| 209662_at | centrin, EF-hand protein, 3 (CDC31 homolog, yeast) | <i>CETN3</i> | 1070 |
| 210701_at | craniofacial development protein 1 | <i>CFDP1</i> | 10428 |
| 203166_at | craniofacial development protein 1 | <i>CFDP1</i> | 10428 |
| 236588_at | Craniofacial development protein 1 | <i>CFDP1</i> | 10428 |
| 206910_x_at | complement factor H-related 2 | <i>CFHR2</i> | 3080 |
| 233496_s_at | cofilin 2 (muscle) | <i>CFL2</i> | 1073 |
| 224352_s_at | cofilin 2 (muscle) | <i>CFL2</i> | 1073 |
| 208485_x_at | CASP8 and FADD-like apoptosis regulator | <i>CFLAR</i> | 8837 |
| 210563_x_at | CASP8 and FADD-like apoptosis regulator | <i>CFLAR</i> | 8837 |
| 210564_x_at | CASP8 and FADD-like apoptosis regulator | <i>CFLAR</i> | 8837 |
| 237367_x_at | CASP8 and FADD-like apoptosis regulator | <i>CFLAR</i> | 8837 |
| 214618_at | CASP8 and FADD-like apoptosis regulator | <i>CFLAR</i> | --- |
| 214906_x_at | hypothetical gene CG018 | <i>CG018</i> | 90634 |
| 217972_at | coiled-coil-helix-coiled-coil-helix domain containing 3 | <i>CHCHD3</i> | 54927 |
| 229595_at | coiled-coil-helix-coiled-coil-helix domain containing 4 | <i>CHCHD4</i> | 131474 |
| 1562892_at | Coiled-coil-helix-coiled-coil-helix domain containing 5 | <i>CHCHD5</i> | 84269 |
| 218642_s_at | coiled-coil-helix-coiled-coil-helix domain containing 7 | <i>CHCHD7</i> | 79145 |
| 204258_at | chromodomain helicase DNA binding protein 1 | <i>CHD1</i> | 1105 |
| 235791_x_at | chromodomain helicase DNA binding protein 1 | <i>CHD1</i> | 1105 |
| 212539_at | chromodomain helicase DNA binding protein 1-like | <i>CHD1L</i> | 9557 |
| 238070_at | Chromodomain helicase DNA binding protein 1-like | <i>CHD1L</i> | 9557 |
| 203461_at | chromodomain helicase DNA binding protein 2 | <i>CHD2</i> | 1106 |
| 228999_at | chromodomain helicase DNA binding protein 2 | <i>CHD2</i> | 1106 |
| 243134_at | Chromodomain helicase DNA binding protein 2 | <i>CHD2</i> | --- |
| 225077_at | chromodomain helicase DNA binding protein 2 | <i>CHD2</i> | 1106 |
| 225951_s_at | Chromodomain helicase DNA binding protein 2 | <i>CHD2</i> | 1106 |
| 1554015_a_at | chromodomain helicase DNA binding protein 2 | <i>CHD2</i> | 1106 |
| 1554014_at | chromodomain helicase DNA binding protein 2 | <i>CHD2</i> | 1106 |
| 244443_at | Chromodomain helicase DNA binding protein 2 | <i>CHD2</i> | 1106 |
| 208806_at | chromodomain helicase DNA binding protein 3 | <i>CHD3</i> | 1107 |
| 234681_s_at | chromodomain helicase DNA binding protein 6 | <i>CHD6</i> | 84181 |
| 1559591_s_at | choline dehydrogenase | <i>CHDH</i> | 55349 |
| 205394_at | CHK1 checkpoint homolog (S. pombe) | <i>CHEK1</i> | 1111 |
| 202230_s_at | calcium homeostasis endoplasmic reticulum protein | <i>CHERP</i> | 10523 |
| 218803_at | checkpoint with forkhead and ring finger domains | <i>CHFR</i> | 55743 |
| 223931_s_at | checkpoint with forkhead and ring finger domains | <i>CHFR</i> | 55743 |
| 223061_at | chitinase domain containing 1 | <i>CHID1</i> | 66005 |
| 204591_at | cell adhesion molecule with homology to L1CAM (close homolog of L1) | <i>CHL1</i> | 10752 |
| 226350_at | choroideremia-like (Rab escort protein 2) | <i>CHML</i> | 1122 |
| 218177_at | chromatin modifying protein 1B | <i>CHMP1B</i> | 57132 |
| 202121_s_at | chromatin modifying protein 2A | <i>CHMP2A</i> | 27243 |
| 202538_s_at | chromatin modifying protein 2B | <i>CHMP2B</i> | 25978 |
| 202536_at | chromatin modifying protein 2B | <i>CHMP2B</i> | 25978 |
| 202537_s_at | chromatin modifying protein 2B | <i>CHMP2B</i> | 25978 |
| 218572_at | chromatin modifying protein 4A | <i>CHMP4A</i> | 29082 |
| 218571_s_at | chromatin modifying protein 4A | <i>CHMP4A</i> | 29082 |
| 225498_at | chromatin modifying protein 4B | <i>CHMP4B</i> | 128866 |
| 225119_at | chromatin modifying protein 4B | <i>CHMP4B</i> | 128866 |
| 219356_s_at | chromatin modifying protein 5 | <i>CHMP5</i> | 51510 |
| 1557769_at | Chimerin (chimaerin) 2 | <i>CHN2</i> | --- |
| 218566_s_at | cysteine and histidine-rich domain (CHORD)-containing 1 | <i>CHORDC1</i> | 26973 |

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|--------------|---|--------------------------|--------------|
| 214665_s_at | calcium binding protein P22 | <i>CHP</i> | 11261 |
| 207993_s_at | calcium binding protein P22 | <i>CHP</i> | 11261 |
| 1559739_at | Choline phosphotransferase 1 | <i>CHPT1</i> | 56994 |
| 226368_at | Carbohydrate (chondroitin 4) sulfotransferase 11 | <i>CHST11</i> | 50515 |
| 226372_at | Carbohydrate (chondroitin 4) sulfotransferase 11 | <i>CHST11</i> | 50515 |
| 219634_at | carbohydrate (chondroitin 4) sulfotransferase 11 | <i>CHST11</i> | 50515 |
| 218927_s_at | carbohydrate (chondroitin 4) sulfotransferase 12 | <i>CHST12</i> | 55501 |
| 222786_at | carbohydrate (chondroitin 4) sulfotransferase 12 | <i>CHST12</i> | 55501 |
| 239647_at | carbohydrate (chondroitin 4) sulfotransferase 13 | <i>CHST13</i> | 166012 |
| 226314_at | carbohydrate (N-acetylgalactosamine 4-O) sulfotransferase 14 | <i>CHST14</i> | 113189 |
| 203921_at | carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 | <i>CHST2</i> | 9435 |
| 206756_at | carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 7 | <i>CHST7</i> | 56548 |
| 203044_at | carbohydrate (chondroitin) synthase 1 | <i>CHSY1</i> | 22856 |
| 233268_s_at | churchill domain containing 1 | <i>CHURC1</i> | 91612 |
| 217501_at | cytosolic iron-sulfur protein assembly 1 homolog (S. cerevisiae) | <i>CIAO1</i> | 9391 |
| 201953_at | calcium and integrin binding 1 (calmyrin) | <i>CIB1</i> | 10519 |
| 224914_s_at | cytokine induced protein 29 kDa /// Dnal (Hsp40) homolog, subfamily C, memb | <i>CIP29 /// DNAJC14</i> | 84324 |
| 209571_at | CBF1 interacting corepressor | <i>CIR</i> | 9541 |
| 226689_at | CDGSH iron sulfur domain 2 | <i>CISD2</i> | 493856 |
| 226686_at | CDGSH iron sulfur domain 2 | <i>CISD2</i> | 493856 |
| 209357_at | Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domai | <i>CITED2</i> | 10370 |
| 207980_s_at | Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domai | <i>CITED2</i> | 10370 |
| 218252_at | cytoskeleton associated protein 2 | <i>CKAP2</i> | 26586 |
| 200998_s_at | cytoskeleton-associated protein 4 | <i>CKAP4</i> | 10970 |
| 200999_s_at | cytoskeleton-associated protein 4 | <i>CKAP4</i> | 10970 |
| 204170_s_at | CDC28 protein kinase regulatory subunit 2 | <i>CKS2</i> | 1164 |
| 212308_at | cytoplasmic linker associated protein 2 | <i>CLASP2</i> | 23122 |
| 212306_at | cytoplasmic linker associated protein 2 | <i>CLASP2</i> | 23122 |
| 206207_at | Charcot-Leyden crystal protein | <i>CLC</i> | 1178 |
| 206165_s_at | chloride channel, calcium activated, family member 2 | <i>CLCA2</i> | 9635 |
| 201734_at | Chloride channel 3 | <i>CLCN3</i> | 1182 |
| 206704_at | chloride channel 5 (nephrolithiasis 2, X-linked, Dent disease) | <i>CLCN5</i> | 1184 |
| 38069_at | chloride channel 7 | <i>CLCN7</i> | 1186 |
| 209235_at | chloride channel 7 | <i>CLCN7</i> | 1186 |
| 1554749_s_at | chloride channel Kb | <i>CLCNKB</i> | 1188 |
| 205328_at | claudin 10 | <i>CLDN10</i> | 9071 |
| 214598_at | claudin 8 | <i>CLDN8</i> | 9073 |
| 1552398_a_at | C-type lectin domain family 12, member A | <i>CLEC12A</i> | 160364 /// 3 |
| 209732_at | C-type lectin domain family 2, member B | <i>CLEC2B</i> | 9976 |
| 220132_s_at | C-type lectin domain family 2, member D | <i>CLEC2D</i> | 29121 |
| 219859_at | C-type lectin domain family 4, member E | <i>CLEC4E</i> | 26253 |
| 222934_s_at | C-type lectin domain family 4, member E | <i>CLEC4E</i> | 26253 |
| 221698_s_at | C-type lectin domain family 7, member A | <i>CLEC7A</i> | 64581 |
| 1555756_a_at | C-type lectin domain family 7, member A | <i>CLEC7A</i> | 64581 |
| 1554406_a_at | C-type lectin domain family 7, member A | <i>CLEC7A</i> | 64581 |
| 1555214_a_at | C-type lectin domain family 7, member A | <i>CLEC7A</i> | 64581 |
| 205830_at | calmegin | <i>CLGN</i> | 1047 |
| 208659_at | chloride intracellular channel 1 | <i>CLIC1</i> | 1192 |
| 201560_at | chloride intracellular channel 4 | <i>CLIC4</i> | 25932 |
| 221881_s_at | chloride intracellular channel 4 | <i>CLIC4</i> | 25932 |
| 201559_s_at | chloride intracellular channel 4 | <i>CLIC4</i> | 25932 |
| 201975_at | CAP-GLY domain containing linker protein 1 | <i>CLIP1</i> | 6249 |
| 219944_at | CAP-GLY domain containing linker protein family, member 4 | <i>CLIP4</i> | 79745 |
| 226425_at | CAP-GLY domain containing linker protein family, member 4 | <i>CLIP4</i> | 79745 |
| 214683_s_at | CDC-like kinase 1 | <i>CLK1</i> | 1195 |
| 203229_s_at | CDC-like kinase 2 | <i>CLK2</i> | 1196 |
| 202140_s_at | CDC-like kinase 3 | <i>CLK3</i> | 1198 |
| 225759_x_at | calmin (calponin-like, transmembrane) | <i>CLMN</i> | 79789 |
| 210859_x_at | ceroid-lipofuscinosis, neuronal 3, juvenile (Batten, Spielmeyer-Vogt disease) | <i>CLN3</i> | 1201 |
| 209275_s_at | ceroid-lipofuscinosis, neuronal 3, juvenile (Batten, Spielmeyer-Vogt disease) | <i>CLN3</i> | 1201 |
| 1567079_at | ceroid-lipofuscinosis, neuronal 6, late infantile, variant | <i>CLN6</i> | 54982 |
| 223912_s_at | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation) | <i>CLN8</i> | 2055 |
| 222874_s_at | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation) | <i>CLN8</i> | 2055 |

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|--------------|--|--------|
| 229958_at | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation) <i>CLN8</i> | 2055 |
| 219341_at | ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation) <i>CLN8</i> | 2055 |
| 209143_s_at | chloride channel, nucleotide-sensitive, 1A <i>CLNS1A</i> | 1207 |
| 204980_at | clock homolog (mouse) <i>CLOCK</i> | 9575 |
| 223020_at | CLPTM1-like <i>CLPTM1L</i> | 81037 |
| 204809_at | ClpX caseinolytic peptidase X homolog (E. coli) <i>CLPX</i> | 10845 |
| 1560434_x_at | clathrin, light chain (Lca) <i>CLTA</i> | 1211 |
| 204050_s_at | clathrin, light chain (Lca) <i>CLTA</i> | 1211 |
| 200960_x_at | clathrin, light chain (Lca) <i>CLTA</i> | 1211 |
| 216295_s_at | clathrin, light chain (Lca) <i>CLTA</i> | 1211 |
| 210498_at | clathrin, heavy chain (Hc) <i>CLTC</i> | 1213 |
| 200614_at | clathrin, heavy chain (Hc) <i>CLTC</i> | 1213 |
| 205518_s_at | cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N-acetylne <i>CMAH</i> | 8418 |
| 241065_x_at | Cytidine monophosphate N-acetylneuraminic acid synthetase <i>CMAS</i> | 55907 |
| 234981_x_at | carboxymethylenebutenolidase homolog (Pseudomonas) <i>CMBL</i> | 134147 |
| 225009_at | CKLF-like MARVEL transmembrane domain containing 4 <i>CMTM4</i> | 146223 |
| 217947_at | CKLF-like MARVEL transmembrane domain containing 6 <i>CMTM6</i> | 54918 |
| 223047_at | CKLF-like MARVEL transmembrane domain containing 6 <i>CMTM6</i> | 54918 |
| 1552587_at | cyclic nucleotide binding domain containing 1 <i>CNBD1</i> | 168975 |
| 206158_s_at | CCHC-type zinc finger, nucleic acid binding protein <i>CNBP</i> | 7555 |
| 217752_s_at | CNDP dipeptidase 2 (metallopeptidase M20 family) <i>CNDP2</i> | 55748 |
| 206417_at | cyclic nucleotide gated channel alpha 1 <i>CNGA1</i> | 1259 |
| 201653_at | cornichon homolog (Drosophila) <i>CNIH</i> | 10175 |
| 228306_at | cornichon homolog 4 (Drosophila) <i>CNIH4</i> | 29097 |
| 229116_at | connector enhancer of kinase suppressor of Ras 2 <i>CNKSR2</i> | 22866 |
| 220739_s_at | cyclin M3 <i>CNNM3</i> | 26505 |
| 218900_at | cyclin M4 <i>CNNM4</i> | 26504 |
| 1554052_at | CCR4-NOT transcription complex, subunit 1 <i>CNOT1</i> | 23019 |
| 222182_s_at | CCR4-NOT transcription complex, subunit 2 <i>CNOT2</i> | 4848 |
| 203239_s_at | CCR4-NOT transcription complex, subunit 3 <i>CNOT3</i> | 4849 |
| 211141_s_at | CCR4-NOT transcription complex, subunit 3 <i>CNOT3</i> | 4849 |
| 229143_at | CCR4-NOT transcription complex, subunit 3 <i>CNOT3</i> | 4849 |
| 217970_s_at | CCR4-NOT transcription complex, subunit 6 <i>CNOT6</i> | 57472 |
| 227119_at | CCR4-NOT transcription complex, subunit 6-like <i>CNOT6L</i> | 246175 |
| 202162_s_at | CCR4-NOT transcription complex, subunit 8 <i>CNOT8</i> | 9337 |
| 202164_s_at | CCR4-NOT transcription complex, subunit 8 <i>CNOT8</i> | 9337 |
| 202163_s_at | CCR4-NOT transcription complex, subunit 8 <i>CNOT8</i> | 9337 |
| 206586_at | cannabinoid receptor 2 (macrophage) <i>CNR2</i> | 1269 |
| 1554784_at | contactin 1 <i>CNTN1</i> | 1272 |
| 227209_at | Contactin 1 <i>CNTN1</i> | 1272 |
| 211203_s_at | contactin 1 <i>CNTN1</i> | 1272 |
| 233202_at | contactin associated protein-like 3 <i>CNTNAP3</i> | 79937 |
| 223796_at | contactin associated protein-like 3 /// contactin associated protein-like 3B /// si <i>CNTNAP3</i> /// <i>CNTN389722</i> /// € | |
| 201913_s_at | Coenzyme A synthase <i>COASY</i> | 80347 |
| 203642_s_at | COBL-like 1 <i>COBLL1</i> | 22837 |
| 231813_s_at | component of oligomeric golgi complex 1 <i>COG1</i> | 9382 |
| 203073_at | component of oligomeric golgi complex 2 <i>COG2</i> | 22796 |
| 225769_at | component of oligomeric golgi complex 6 <i>COG6</i> | 57511 |
| 216993_s_at | collagen, type XI, alpha 2 <i>COL11A2</i> | 1302 |
| 216865_at | collagen, type XIV, alpha 1 (undulin) <i>COL14A1</i> | 7373 |
| 203477_at | collagen, type XV, alpha 1 <i>COL15A1</i> | 1306 |
| 209082_s_at | collagen, type XVIII, alpha 1 <i>COL18A1</i> | 80781 |
| 202403_s_at | collagen, type I, alpha 2 <i>COL1A2</i> | 1278 |
| 215076_s_at | collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant) <i>COL3A1</i> | 1281 |
| 211161_s_at | collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant) <i>COL3A1</i> | 1281 |
| 232458_at | Collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominan) <i>COL3A1</i> | 1281 |
| 223466_x_at | collagen, type IV, alpha 3 (Goodpasture antigen) binding protein <i>COL4A3BP</i> | 10087 |
| 219625_s_at | collagen, type IV, alpha 3 (Goodpasture antigen) binding protein <i>COL4A3BP</i> | 10087 |
| 223465_at | collagen, type IV, alpha 3 (Goodpasture antigen) binding protein <i>COL4A3BP</i> | 10087 |
| 221729_at | collagen, type V, alpha 2 <i>COL5A2</i> | 1290 |
| 213622_at | collagen, type IX, alpha 2 <i>COL9A2</i> | 1298 |
| 221019_s_at | collectin sub-family member 12 <i>COLEC12</i> | 81035 |
| 226024_at | copper metabolism (Murr1) domain containing 1 <i>COMMD1</i> | 150684 |

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|--------------|---|---------|--------------|
| 222637_at | COMM domain containing 10 | COMMD10 | 51397 |
| 223491_at | COMM domain containing 2 | COMMD2 | 51122 |
| 209132_s_at | COMM domain containing 4 | COMMD4 | 54939 |
| 206441_s_at | COMM domain containing 4 | COMMD4 | 54939 |
| 224815_at | COMM domain containing 7 | COMMD7 | 149951 |
| 208818_s_at | catechol-O-methyltransferase | COMT | 1312 |
| 208684_at | coatomer protein complex, subunit alpha | COPA | 1314 |
| 201359_at | coatomer protein complex, subunit beta 1 | COPB1 | 1315 |
| 201358_s_at | coatomer protein complex, subunit beta 1 | COPB1 | 1315 |
| 201098_at | coatomer protein complex, subunit beta 2 (beta prime) | COPB2 | 9276 |
| 201264_at | coatomer protein complex, subunit epsilon | COPE | 11316 |
| 202467_s_at | COP9 constitutive photomorphogenic homolog subunit 2 (Arabidopsis) | COPS2 | 9318 |
| 214260_at | COP9 constitutive photomorphogenic homolog subunit 8 (Arabidopsis) | COPS8 | 10920 |
| 217726_at | coatomer protein complex, subunit zeta 1 | COPZ1 | 22818 |
| 219397_at | coenzyme Q10 homolog B (S. cerevisiae) | COQ10B | 80219 |
| 210820_x_at | coenzyme Q7 homolog, ubiquinone (yeast) | COQ7 | 10229 |
| 239260_at | corin, serine peptidase | CORIN | 10699 |
| 239261_s_at | corin, serine peptidase | CORIN | 10699 |
| 220356_at | corin, serine peptidase | CORIN | 10699 |
| 209083_at | coronin, actin binding protein, 1A | CORO1A | 11151 |
| 222409_at | coronin, actin binding protein, 1C | CORO1C | 23603 |
| 221676_s_at | coronin, actin binding protein, 1C | CORO1C | 23603 |
| 211727_s_at | COX11 homolog, cytochrome c oxidase assembly protein (yeast) | COX11 | 1353 |
| 235533_at | COX19 cytochrome c oxidase assembly homolog (S. cerevisiae) | COX19 | 90639 |
| 202698_x_at | cytochrome c oxidase subunit IV isoform 1 | COX4I1 | 1327 |
| 200086_s_at | cytochrome c oxidase subunit IV isoform 1 | COX4I1 | 1327 |
| 213758_at | cytochrome c oxidase subunit IV isoform 1 | COX4I1 | 1327 |
| 200925_at | cytochrome c oxidase subunit VIa polypeptide 1 | COX6A1 | 1337 |
| 201754_at | cytochrome c oxidase subunit VIc | COX6C | 1345 |
| 201256_at | cytochrome c oxidase subunit VIIa polypeptide 2 like | COX7A2L | 9167 |
| 202110_at | cytochrome c oxidase subunit VIIb | COX7B | 1349 |
| 227253_at | ceruloplasmin (ferroxidase) | CP | 1356 |
| 201941_at | carboxypeptidase D | CPD | 1362 |
| 201940_at | carboxypeptidase D | CPD | 1362 |
| 201943_s_at | carboxypeptidase D | CPD | 1362 |
| 201942_s_at | carboxypeptidase D | CPD | 1362 |
| 235462_at | Cytoplasmic polyadenylation element binding protein 2 | CPEB2 | 132864 |
| 1555250_a_at | cytoplasmic polyadenylation element binding protein 3 | CPEB3 | 22849 |
| 205773_at | cytoplasmic polyadenylation element binding protein 3 | CPEB3 | 22849 |
| 224829_at | cytoplasmic polyadenylation element binding protein 4 | CPEB4 | 80315 |
| 235019_at | carboxypeptidase M | CPM | 1368 |
| 225129_at | copine II | CPNE2 | 221184 |
| 228365_at | copine VIII | CPNE8 | 144402 |
| 204920_at | carbamoyl-phosphate synthetase 1, mitochondrial | CPS1 | 1373 |
| 225986_x_at | cleavage and polyadenylation specific factor 2, 100kDa | CPSF2 | 53981 |
| 225082_at | cleavage and polyadenylation specific factor 3, 73kDa | CPSF3 | 51692 |
| 224312_x_at | cleavage and polyadenylation specific factor 3-like | CPSF3L | 54973 |
| 233563_s_at | cleavage and polyadenylation specific factor 3-like | CPSF3L | 54973 |
| 233625_x_at | cleavage and polyadenylation specific factor 3-like | CPSF3L | 54973 |
| 217994_x_at | cleavage and polyadenylation specific factor 3-like | CPSF3L | 54973 |
| 206688_s_at | cleavage and polyadenylation specific factor 4, 30kDa | CPSF4 | 10898 |
| 204264_at | carnitine palmitoyltransferase II | CPT2 | 1376 |
| 217239_x_at | Immunoglobulin heavy chain, partial, clone VH3-7 /// Carboxypeptidase, vitellogenin | CPVL | --- |
| 206244_at | complement component (3b/4b) receptor 1 (Knops blood group) | CR1 | 1378 |
| 244313_at | complement component (3b/4b) receptor 1 (Knops blood group) | CR1 | 1378 |
| 1563897_at | Cellular retinoic acid binding protein 1 | CRABP1 | 1381 |
| 225172_at | Crm, cramped-like (Drosophila) | CRAMP1L | 57585 /// 90 |
| 214513_s_at | cAMP responsive element binding protein 1 | CREB1 | 1385 |
| 204312_x_at | cAMP responsive element binding protein 1 | CREB1 | 1385 |
| 204314_s_at | cAMP responsive element binding protein 1 | CREB1 | 1385 |
| 204313_s_at | cAMP responsive element binding protein 1 | CREB1 | 1385 |
| 209432_s_at | cAMP responsive element binding protein 3 | CREB3 | 10488 |
| 229228_at | cAMP responsive element binding protein 5 | CREB5 | 9586 |

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|--------------|---|-----------------------------------|--------------|
| 205931_s_at | cAMP responsive element binding protein 5 | <i>CREB5</i> | 9586 |
| 202160_at | CREB binding protein (Rubinstein-Taybi syndrome) | <i>CREBBP</i> | 1387 |
| 211808_s_at | CREB binding protein (Rubinstein-Taybi syndrome) | <i>CREBBP</i> | 1387 |
| 201990_s_at | cAMP responsive element binding protein-like 2 | <i>CREBL2</i> | 1389 |
| 225595_at | CREB/ATF bZIP transcription factor | <i>CREBZF</i> | 58487 |
| 225594_at | CREB/ATF bZIP transcription factor | <i>CREBZF</i> | 58487 |
| 201200_at | cellular repressor of E1A-stimulated genes 1 | <i>CREG1</i> | 8804 |
| 207630_s_at | cAMP responsive element modulator | <i>CREM</i> | 1390 |
| 230511_at | cAMP responsive element modulator | <i>CREM</i> | 1390 |
| 209967_s_at | cAMP responsive element modulator | <i>CREM</i> | 1390 |
| 202552_s_at | cysteine rich transmembrane BMP regulator 1 (chordin-like) | <i>CRIM1</i> | 51232 |
| 228496_s_at | Cysteine rich transmembrane BMP regulator 1 (chordin-like) | <i>CRIM1</i> | 51232 |
| 202551_s_at | cysteine rich transmembrane BMP regulator 1 (chordin-like) | <i>CRIM1</i> | 51232 |
| 227942_s_at | cysteine-rich PDZ-binding protein | <i>CRIPT</i> | 9419 |
| 216314_at | cysteine-rich secretory protein 1 | <i>CRISP1</i> | 167 |
| 207802_at | cysteine-rich secretory protein 3 | <i>CRISP3</i> | 10321 |
| 223475_at | cysteine-rich secretory protein LCCL domain containing 1 | <i>CRISPLD1</i> | 83690 |
| 202224_at | v-crk sarcoma virus CT10 oncogene homolog (avian) | <i>CRK</i> | 1398 |
| 202225_at | v-crk sarcoma virus CT10 oncogene homolog (avian) | <i>CRK</i> | --- |
| 202226_s_at | v-crk sarcoma virus CT10 oncogene homolog (avian) | <i>CRK</i> | 1398 |
| 212180_at | v-crk sarcoma virus CT10 oncogene homolog (avian)-like | <i>CRKL</i> | 1399 |
| 206184_at | v-crk sarcoma virus CT10 oncogene homolog (avian)-like | <i>CRKL</i> | 1399 |
| 211038_s_at | ciliary rootlet coiled-coil, rootletin-like 1 | <i>CROCCL1</i> | 84809 |
| 204573_at | carnitine O-octanoyltransferase | <i>CROT</i> | 54677 |
| 221988_at | Cofactor required for Sp1 transcriptional activation, subunit 7, 70kDa | <i>CRSP7</i> | 79086 |
| 1555889_a_at | cartilage associated protein | <i>CRTAP</i> | 10491 |
| 201380_at | cartilage associated protein | <i>CRTAP</i> | 10491 |
| 226307_at | CREB regulated transcription coactivator 2 | <i>CRTC2</i> | 200186 |
| 218648_at | CREB regulated transcription coactivator 3 | <i>CRTC3</i> | 64784 |
| 209674_at | cryptochrome 1 (photolyase-like) | <i>CRY1</i> | 1407 |
| 1552347_at | crystallin, zeta (quinone reductase)-like 1 | <i>CRYZL1</i> | 9946 |
| 1554767_s_at | crystallin, zeta (quinone reductase)-like 1 | <i>CRYZL1</i> | 9946 |
| 201161_s_at | cold shock domain protein A | <i>CSDA</i> | 8531 |
| 219939_s_at | cold shock domain containing E1, RNA-binding | <i>CSDE1</i> | 7812 |
| 222975_s_at | cold shock domain containing E1, RNA-binding | <i>CSDE1</i> | 7812 |
| 203104_at | colony stimulating factor 1 receptor, formerly McDonough feline sarcoma viral (| <i>CSF1R</i> | 1436 |
| 1553297_a_at | colony stimulating factor 3 receptor (granulocyte) | <i>CSF3R</i> | 1441 |
| 203591_s_at | colony stimulating factor 3 receptor (granulocyte) | <i>CSF3R</i> | 1441 |
| 221799_at | chondroitin sulfate glucuronyltransferase | <i>CSG1cA-T</i> | 54480 |
| 55093_at | chondroitin sulfate glucuronyltransferase | <i>CSG1cA-T</i> | 54480 |
| 1570169_at | CUB and Sushi multiple domains 2 | <i>CSMD2</i> | 114784 |
| 1553080_at | casein alpha s2-like A | <i>CSN1S2A</i> | 286828 |
| 207951_at | casein beta | <i>CSN2</i> | 1447 |
| 240221_at | Casein kinase 1, alpha 1 | <i>CSNK1A1</i> | 1452 |
| 213086_s_at | casein kinase 1, alpha 1 | <i>CSNK1A1</i> | 1452 |
| 243338_at | Casein kinase 1, alpha 1 | <i>CSNK1A1</i> | --- |
| 208867_s_at | casein kinase 1, alpha 1 | <i>CSNK1A1</i> | 1452 |
| 1556006_s_at | Casein kinase 1, alpha 1 | <i>CSNK1A1</i> | 1452 |
| 213860_x_at | casein kinase 1, alpha 1 | <i>CSNK1A1</i> | 1452 |
| 208865_at | casein kinase 1, alpha 1 | <i>CSNK1A1</i> | 1452 |
| 1556007_s_at | Casein kinase 1, alpha 1 | <i>CSNK1A1</i> | --- |
| 206562_s_at | casein kinase 1, alpha 1 | <i>CSNK1A1</i> | 1452 |
| 207945_s_at | casein kinase 1, delta | <i>CSNK1D</i> | 1453 |
| 227767_at | casein kinase 1, gamma 3 | <i>CSNK1G3</i> | 1456 |
| 212073_at | casein kinase 2, alpha 1 polypeptide /// casein kinase 2, alpha 1 polypeptide pse | <i>CSNK2A1</i> /// <i>CSNK2A1</i> | 1457 /// 283 |
| 201390_s_at | casein kinase 2, beta polypeptide | <i>CSNK2B</i> | 1460 /// 584 |
| 227105_at | centrosome and spindle pole associated protein 1 | <i>CSPP1</i> | 79848 |
| 207030_s_at | cysteine and glycine-rich protein 2 | <i>CSRP2</i> | 1466 |
| 228543_at | CSRP2 binding protein | <i>CSRP2BP</i> | 57325 |
| 210140_at | cystatin F (leukocystatin) | <i>CST7</i> | 8530 |
| 204971_at | cystatin A (stefin A) | <i>CSTA</i> | 1475 |
| 201201_at | cystatin B (stefin B) | <i>CSTB</i> | 1476 |
| 202190_at | cleavage stimulation factor, 3' pre-RNA, subunit 1, 50kDa | <i>CSTF1</i> | 1477 |

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|--------------|---|---------------------------------|-------------------|
| 238821_at | Cleavage stimulation factor, 3' pre-RNA, subunit 2, 64kDa | <i>CSTF2</i> | 1478 |
| 212905_at | cleavage stimulation factor, 3' pre-RNA, subunit 2, 64kDa, tau variant | <i>CSTF2T</i> | 23283 |
| 229665_at | cleavage stimulation factor, 3' pre-RNA, subunit 3, 77kDa | <i>CSTF3</i> | 1479 |
| 229666_s_at | cleavage stimulation factor, 3' pre-RNA, subunit 3, 77kDa | <i>CSTF3</i> | 1479 |
| 203947_at | cleavage stimulation factor, 3' pre-RNA, subunit 3, 77kDa | <i>CSTF3</i> | 1479 |
| 220957_at | cutaneous T-cell lymphoma-associated antigen 1 | <i>CTAGE1</i> | 64693 |
| 204055_s_at | CTAGE family, member 5 | <i>CTAGE5</i> | 4253 |
| 1557714_at | C-terminal binding protein 1 | <i>CTBP1</i> | 1487 |
| 218923_at | chitinase, di-N-acetyl- | <i>CTBS</i> | 1486 |
| 218924_s_at | chitinase, di-N-acetyl- | <i>CTBS</i> | 1486 |
| 1552368_at | CCCTC-binding factor (zinc finger protein)-like | <i>CTCFL</i> | 140690 |
| 205035_at | CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) phosphatase | <i>CTDP1</i> | 9150 |
| 224732_at | chromosome transmission fidelity factor 8 homolog (S. cerevisiae) | <i>CTF8</i> | 54921 |
| 1565620_at | Centaurin, gamma-like family, member 1 | <i>CTGLF1</i> | 119016 |
| 221971_x_at | centaurin, gamma-like family, member 1 /// centaurin, gamma-like family, member 1 | <i>CTGLF1</i> /// <i>CTGLF2</i> | 119016 /// 119016 |
| 221850_x_at | centaurin, gamma-like family, member 1 /// KIAA1975 protein similar to MRIP2 | <i>CTGLF1</i> /// <i>CTGLF3</i> | 119016 /// 119016 |
| 217127_at | cystathionase (cystathionine gamma-lyase) | <i>CTH</i> | 1491 |
| 231794_at | cytotoxic T-lymphocyte-associated protein 4 | <i>CTLA4</i> | 1493 |
| 200764_s_at | catenin (cadherin-associated protein), alpha 1, 102kDa | <i>CTNNA1</i> | 1495 |
| 210844_x_at | catenin (cadherin-associated protein), alpha 1, 102kDa | <i>CTNNA1</i> | 1495 |
| 200765_x_at | catenin (cadherin-associated protein), alpha 1, 102kDa | <i>CTNNA1</i> | 1495 |
| 1558214_s_at | catenin (cadherin-associated protein), alpha 1, 102kDa | <i>CTNNA1</i> | 1495 |
| 205373_at | catenin (cadherin-associated protein), alpha 2 | <i>CTNNA2</i> | 1496 |
| 223679_at | catenin (cadherin-associated protein), beta 1, 88kDa | <i>CTNNB1</i> | 1499 |
| 202060_at | Ctr9, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae) | <i>CTR9</i> | 9646 |
| 214411_x_at | chymotrypsinogen B2 | <i>CTRB2</i> | 440387 |
| 206297_at | chymotrypsin C (caldecrin) | <i>CTRC</i> | 11330 |
| 200661_at | cathepsin A | <i>CTSA</i> | 5476 |
| 231234_at | cathepsin C | <i>CTSC</i> | 1075 |
| 201487_at | cathepsin C | <i>CTSC</i> | 1075 |
| 225646_at | cathepsin C | <i>CTSC</i> | 1075 |
| 225647_s_at | cathepsin C | <i>CTSC</i> | 1075 |
| 200766_at | cathepsin D | <i>CTSD</i> | 1509 |
| 227863_at | cathepsin D | <i>CTSD</i> | 1509 |
| 202295_s_at | cathepsin H | <i>CTSH</i> | 1512 |
| 203758_at | cathepsin O | <i>CTSO</i> | 1519 |
| 232617_at | cathepsin S | <i>CTSS</i> | 1520 |
| 202901_x_at | cathepsin S | <i>CTSS</i> | 1520 |
| 202902_s_at | cathepsin S | <i>CTSS</i> | 1520 |
| 240868_at | CTTNBP2 N-terminal like | <i>CTTNBP2NL</i> | 100129406 |
| 227178_at | CUG triplet repeat, RNA binding protein 2 | <i>CUGBP2</i> | 10659 |
| 1554569_a_at | CUG triplet repeat, RNA binding protein 2 | <i>CUGBP2</i> | 10659 |
| 242268_at | CUG triplet repeat, RNA binding protein 2 | <i>CUGBP2</i> | 10659 |
| 201370_s_at | cullin 3 | <i>CUL3</i> | 8452 |
| 201424_s_at | cullin 4A | <i>CUL4A</i> | 8451 |
| 210257_x_at | cullin 4B | <i>CUL4B</i> | 8450 |
| 203533_s_at | cullin 5 | <i>CUL5</i> | 8065 |
| 203531_at | cullin 5 | <i>CUL5</i> | 8065 |
| 205898_at | chemokine (C-X3-C motif) receptor 1 | <i>CX3CR1</i> | 1524 |
| 1568934_at | chemokine (C-X3-C motif) receptor 1 | <i>CX3CR1</i> | 1524 |
| 203917_at | coxsackie virus and adenovirus receptor | <i>CXADR</i> | 1525 |
| 204470_at | chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha) | <i>CXCL1</i> | 2919 |
| 223454_at | chemokine (C-X-C motif) ligand 16 | <i>CXCL16</i> | 58191 |
| 209774_x_at | chemokine (C-X-C motif) ligand 2 | <i>CXCL2</i> | 2920 |
| 1569203_at | chemokine (C-X-C motif) ligand 2 | <i>CXCL2</i> | 2920 |
| 206336_at | chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) | <i>CXCL6</i> | 6372 |
| 203915_at | chemokine (C-X-C motif) ligand 9 | <i>CXCL9</i> | 4283 |
| 211919_s_at | chemokine (C-X-C motif) receptor 4 | <i>CXCR4</i> | 7852 |
| 209201_x_at | chemokine (C-X-C motif) receptor 4 | <i>CXCR4</i> | 7852 |
| 232746_at | Chemokine (C-X-C motif) receptor 7 | <i>CXCR7</i> | 57007 |
| 228752_at | chromosome X open reading frame 10 | <i>CXorf10</i> | 63035 |
| 227520_at | chromosome X open reading frame 15 | <i>CXorf15</i> | 55787 |
| 239034_at | chromosome X open reading frame 24 | <i>CXorf24</i> | 203414 |

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| 224177_s_at | chromosome X open reading frame 26 | <i>CXorf26</i> | 51260 |
| 223294_at | chromosome X open reading frame 26 | <i>CXorf26</i> | 51260 |
| 230532_at | chromosome X open reading frame 38 | <i>CXorf38</i> | 159013 |
| 213315_x_at | chromosome X open reading frame 40A | <i>CXorf40A</i> | 91966 |
| 214112_s_at | chromosome X open reading frame 40A /// chromosome X open reading frame | <i>CXorf40A</i> /// <i>CXorf</i> | 541578 /// 5 |
| 212961_x_at | chromosome X open reading frame 40B | <i>CXorf40B</i> | 541578 /// 5 |
| 1552607_at | chromosome X open reading frame 52 | <i>CXorf52</i> | 100132967, |
| 1553466_at | chromosome X open reading frame 59 | <i>CXorf59</i> | 286464 |
| 229774_at | CXXC finger 4 | <i>CXXC4</i> | 80319 |
| 228906_at | CXXC finger 6 | <i>CXXC6</i> | 80312 |
| 217200_x_at | cytochrome b-561 | <i>CYB561</i> | 1534 |
| 207986_x_at | cytochrome b-561 | <i>CYB561</i> | 1534 |
| 209164_s_at | cytochrome b-561 | <i>CYB561</i> | 1534 |
| 210816_s_at | cytochrome b-561 | <i>CYB561</i> | 1534 |
| 209163_at | cytochrome b-561 | <i>CYB561</i> | 1534 |
| 201634_s_at | cytochrome b5 type B (outer mitochondrial membrane) | <i>CYB5B</i> | 80777 |
| 226833_at | cytochrome b5 domain containing 1 | <i>CYB5D1</i> | 124637 |
| 202263_at | cytochrome b5 reductase 1 | <i>CYB5R1</i> | 51706 |
| 219079_at | cytochrome b5 reductase 4 | <i>CYB5R4</i> | 51167 |
| 222453_at | cytochrome b reductase 1 | <i>CYBRD1</i> | 79901 |
| 217889_s_at | cytochrome b reductase 1 | <i>CYBRD1</i> | 79901 |
| 201066_at | cytochrome c-1 | <i>CYC1</i> | 1537 |
| 215785_s_at | cytoplasmic FMR1 interacting protein 2 | <i>CYFIP2</i> | 26999 |
| 1570410_at | cytoglobin | <i>CYGB</i> | 114757 |
| 213072_at | cysteine/histidine-rich 1 | <i>CYHR1</i> | 50626 |
| 216809_at | cylicin, basic protein of sperm head cytoskeleton 1 | <i>CYLC1</i> | 1538 |
| 216778_s_at | cylicin, basic protein of sperm head cytoskeleton 1 | <i>CYLC1</i> | 1538 |
| 207780_at | cylicin, basic protein of sperm head cytoskeleton 2 | <i>CYLC2</i> | 1539 |
| 236694_at | chromosome Y open reading frame 15A | <i>CYorf15A</i> | 246126 |
| 223645_s_at | chromosome Y open reading frame 15B | <i>CYorf15B</i> | 84663 |
| 240863_at | cytochrome P450, family 19, subfamily A, polypeptide 1 | <i>CYP19A1</i> | 1588 |
| 207608_x_at | cytochrome P450, family 1, subfamily A, polypeptide 2 | <i>CYP1A2</i> | 1544 |
| 202435_s_at | cytochrome P450, family 1, subfamily B, polypeptide 1 | <i>CYP1B1</i> | 1545 |
| 203979_at | cytochrome P450, family 27, subfamily A, polypeptide 1 | <i>CYP27A1</i> | 1593 |
| 217558_at | cytochrome P450, family 2, subfamily C, polypeptide 9 | <i>CYP2C9</i> | 1559 |
| 214421_x_at | cytochrome P450, family 2, subfamily C, polypeptide 9 | <i>CYP2C9</i> | 1559 |
| 244407_at | cytochrome P450, family 39, subfamily A, polypeptide 1 | <i>CYP39A1</i> | 51302 |
| 217319_x_at | cytochrome P450, family 4, subfamily A, polypeptide 22 | <i>CYP4A22</i> | 284541 |
| 206515_at | cytochrome P450, family 4, subfamily F, polypeptide 3 | <i>CYP4F3</i> | 4051 |
| 226745_at | cytochrome P450, family 4, subfamily V, polypeptide 2 | <i>CYP4V2</i> | 285440 |
| 227702_at | cytochrome P450, family 4, subfamily X, polypeptide 1 | <i>CYP4X1</i> | 260293 |
| 237395_at | cytochrome P450, family 4, subfamily Z, polypeptide 1 | <i>CYP4Z1</i> | 199974 |
| 232494_at | cytochrome P450, family 8, subfamily B, polypeptide 1 | <i>CYP8B1</i> | 1582 |
| 230866_at | cysteinyl leukotriene receptor 1 | <i>CYSLTR1</i> | 10800 |
| 231747_at | cysteinyl leukotriene receptor 1 | <i>CYSLTR1</i> | 10800 |
| 216288_at | cysteinyl leukotriene receptor 1 | <i>CYSLTR1</i> | 10800 |
| 1559471_s_at | D21S2088E | <i>D21S2088E</i> | 266917 |
| 216060_s_at | dishevelled associated activator of morphogenesis 1 | <i>DAAM1</i> | 23002 |
| 228915_at | dachshund homolog 1 (Drosophila) | <i>DACH1</i> | 1602 |
| 205472_s_at | dachshund homolog 1 (Drosophila) | <i>DACH1</i> | 1602 |
| 205471_s_at | dachshund homolog 1 (Drosophila) | <i>DACH1</i> | 1602 |
| 200046_at | defender against cell death 1 | <i>DAD1</i> | 1603 |
| 1562772_a_at | DAN domain family, member 5 | <i>DAND5</i> | 199699 |
| 201095_at | death-associated protein | <i>DAP</i> | 1611 |
| 208822_s_at | death associated protein 3 | <i>DAP3</i> | 7818 |
| 215184_at | death-associated protein kinase 2 | <i>DAPK2</i> | 23604 |
| 206324_s_at | death-associated protein kinase 2 | <i>DAPK2</i> | 23604 |
| 203890_s_at | death-associated protein kinase 3 | <i>DAPK3</i> | 1613 |
| 236707_at | dual adaptor of phosphotyrosine and 3-phosphoinositides | <i>DAPP1</i> | 27071 |
| 201624_at | aspartyl-tRNA synthetase | <i>DARS</i> | 1615 |
| 201623_s_at | aspartyl-tRNA synthetase | <i>DARS</i> | 1615 |
| 216038_x_at | death-associated protein 6 | <i>DAXX</i> | 1616 |
| 216922_x_at | deleted in azoospermia 1 /// deleted in azoospermia 3 /// deleted in azoosperm | <i>DAZ1</i> /// <i>DAZ2</i> /// | 1617 /// 570 |

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|--------------|---|-------------------|--------------|
| 207909_x_at | deleted in azoospermia 1 /// deleted in azoospermia 3 /// deleted in azoosperm | DAZ1 /// DAZ2 /// | 1617 /// 570 |
| 214334_x_at | DAZ associated protein 2 | DAZAP2 | 9802 |
| 212595_s_at | DAZ associated protein 2 | DAZAP2 | 9802 |
| 205818_at | deleted in bladder cancer 1 | DBC1 | 1620 |
| 204244_s_at | DBF4 homolog (<i>S. cerevisiae</i>) | DBF4 | 10926 |
| 234295_at | debranching enzyme homolog 1 (<i>S. cerevisiae</i>) | DBR1 | 51163 |
| 219149_x_at | debranching enzyme homolog 1 (<i>S. cerevisiae</i>) | DBR1 | 51163 |
| 231919_at | dihydrolipoamide branched chain transacylase E2 | DBT | 1629 |
| 205371_s_at | dihydrolipoamide branched chain transacylase E2 | DBT | 1629 |
| 224911_s_at | discoidin, CUB and LCCL domain containing 2 | DCBLD2 | 131566 |
| 213873_at | discoidin, CUB and LCCL domain containing 2 | DCBLD2 | 131566 |
| 229800_at | Doublecortin-like kinase 1 | DCLK1 | 9201 |
| 242927_at | DNA cross-link repair 1C (PSO2 homolog, <i>S. cerevisiae</i>) | DCLRE1C | 64421 |
| 235478_at | DNA cross-link repair 1C (PSO2 homolog, <i>S. cerevisiae</i>) | DCLRE1C | 64421 |
| 240556_at | Decorin | DCN | 1634 |
| 222678_s_at | DCN1, defective in cullin neddylation 1, domain containing 1 (<i>S. cerevisiae</i>) | DCUN1D1 | 54165 |
| 212855_at | DCN1, defective in cullin neddylation 1, domain containing 4 (<i>S. cerevisiae</i>) | DCUN1D4 | 23142 |
| 212851_at | DCN1, defective in cullin neddylation 1, domain containing 4 (<i>S. cerevisiae</i>) | DCUN1D4 | 23142 |
| 223151_at | DCN1, defective in cullin neddylation 1, domain containing 5 (<i>S. cerevisiae</i>) | DCUN1D5 | 84259 |
| 217973_at | dicarbonyl/L-xylulose reductase | DCXR | 51181 |
| 224796_at | development and differentiation enhancing factor 1 | DDEF1 | 50807 |
| 221039_s_at | development and differentiation enhancing factor 1 | DDEF1 | 50807 |
| 224790_at | development and differentiation enhancing factor 1 | DDEF1 | 50807 |
| 224791_at | development and differentiation enhancing factor 1 | DDEF1 | 50807 |
| 236533_at | development and differentiation enhancing factor 1 | DDEF1 | 50807 |
| 209383_at | DNA-damage-inducible transcript 3 | DDIT3 | 1649 |
| 202887_s_at | DNA-damage-inducible transcript 4 | DDIT4 | 54541 |
| 208675_s_at | dolichyl-diphosphooligosaccharide-protein glycosyltransferase | DDOST | 1650 |
| 208674_x_at | dolichyl-diphosphooligosaccharide-protein glycosyltransferase | DDOST | 1650 |
| 227561_at | Discoidin domain receptor family, member 2 | DDR2 | 4921 |
| 202929_s_at | D-dopachrome tautomerase | DDT | 1652 |
| 201241_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 1 | DDX1 | 1653 |
| 204977_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 10 | DDX10 | 1662 |
| 213378_s_at | DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11 (CHL1-like helicase homolog, | DDX11 /// DDX12 / | 1663 /// 440 |
| 213998_s_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 17 | DDX17 | 10521 |
| 208895_s_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 18 | DDX18 | 8886 |
| 208896_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 18 | DDX18 | 8886 |
| 205763_s_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 18 | DDX18 | 8886 |
| 208897_s_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 18 | DDX18 | 8886 |
| 224654_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 21 | DDX21 | 9188 |
| 208152_s_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 21 | DDX21 | 9188 |
| 200694_s_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 24 | DDX24 | 57062 |
| 40255_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 28 | DDX28 | 55794 |
| 203785_s_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 28 | DDX28 | 55794 |
| 1553181_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 31 | DDX31 | 64794 |
| 201211_s_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked | DDX3X | 1654 |
| 201210_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked | DDX3X | 1654 |
| 212515_s_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked | DDX3X | 1654 |
| 212514_x_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked | DDX3X | 1654 |
| 217840_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 41 | DDX41 | 51428 |
| 228039_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 46 | DDX46 | 9879 |
| 31807_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 49 | DDX49 | 54555 |
| 221699_s_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 50 | DDX50 | 79009 |
| 1568815_a_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 50 | DDX50 | 79009 |
| 212834_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 52 | DDX52 | 11056 |
| 242961_x_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 | DDX58 | 23586 |
| 222793_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 | DDX58 | 23586 |
| 218943_s_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 | DDX58 | 23586 |
| 228385_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 59 | DDX59 | 83479 |
| 223662_x_at | DEAD (Asp-Glu-Ala-Asp) box polypeptide 59 | DDX59 | 83479 |
| 225434_at | death effector domain containing 2 | DEDD2 | 162989 |
| 226659_at | differentially expressed in FDCP 6 homolog (mouse) | DEF6 | 50619 |
| 221293_s_at | differentially expressed in FDCP 6 homolog (mouse) | DEF6 | 50619 |

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| 225637_at | differentially expressed in FDCP 8 homolog (mouse) | DEF8 | 54849 |
| 205033_s_at | defensin, alpha 1 /// defensin, alpha 3, neutrophil-specific | DEFA1 /// DEFA3 | 1667 /// 1667 |
| 207269_at | defensin, alpha 4, corticostatin | DEFA4 | 1669 |
| 207529_at | defensin, alpha 5, Paneth cell-specific | DEFA5 | 1670 |
| 1563450_at | defensin, beta 107A /// defensin, beta 107B | DEFB107A /// DEFB107B | 245910 /// 245910 |
| 207431_s_at | degenerative spermatocyte homolog 1, lipid desaturase (Drosophila) | DEGS1 | 8560 |
| 219763_at | DENN/MADD domain containing 1A | DENND1A | 57706 |
| 1557309_at | DENN/MADD domain containing 1B | DENND1B | 163486 |
| 1552835_at | DENN/MADD domain containing 1B | DENND1B | 163486 |
| 212975_at | DENN/MADD domain containing 3 | DENND3 | 22898 |
| 212974_at | DENN/MADD domain containing 3 | DENND3 | 22898 |
| 1554352_s_at | DENN/MADD domain containing 4A | DENND4A | 10260 |
| 214787_at | DENN/MADD domain containing 4A | DENND4A | 10260 |
| 202860_at | DENN/MADD domain containing 4B | DENND4B | 9909 |
| 234968_at | DENN/MADD domain containing 4C | DENND4C | 55667 |
| 234915_s_at | density-regulated protein | DENR | 8562 |
| 235545_at | DEP domain containing 1 | DEPDC1 | 55635 |
| 222958_s_at | DEP domain containing 1 | DEPDC1 | 55635 |
| 232278_s_at | DEP domain containing 1 | DEPDC1 | 55635 |
| 220295_x_at | DEP domain containing 1 /// similar to DEP domain containing 1 | DEPDC1 /// LOC731018 | 55635 |
| 222543_at | Der1-like domain family, member 1 | DERL1 | 79139 |
| 218172_s_at | Der1-like domain family, member 1 | DERL1 | 79139 |
| 219402_s_at | Der1-like domain family, member 1 | DERL1 | 79139 |
| 218333_at | Der1-like domain family, member 2 | DERL2 | 51009 |
| 216947_at | desmin | DES | 1674 |
| 226116_at | DNA fragmentation factor, 45kDa, alpha polypeptide | DFFA | --- |
| 47553_at | deafness, autosomal recessive 31 | DFNB31 | 25861 |
| 221887_s_at | deafness, autosomal recessive 31 | DFNB31 | 25861 |
| 214198_s_at | DiGeorge syndrome critical region gene 2 | DGCR2 | 9993 |
| 208024_s_at | DiGeorge syndrome critical region gene 6 /// DiGeorge syndrome critical region | DGCR6 /// DGCR6L | 8214 /// 8214 |
| 211272_s_at | diacylglycerol kinase, alpha 80kDa | DGKA | 1606 |
| 208072_s_at | diacylglycerol kinase, delta 130kDa | DGKD | 8527 |
| 1553300_a_at | diacylglycerol kinase, eta | DGKH | 160851 |
| 203816_at | deoxyguanosine kinase | DGUOK | 1716 |
| 202534_x_at | dihydrofolate reductase | DHFR | 1719 |
| 48808_at | dihydrofolate reductase | DHFR | 1719 |
| 202532_s_at | dihydrofolate reductase | DHFR | 1719 |
| 202802_at | deoxyhypusine synthase | DHPS | 1725 |
| 207831_x_at | deoxyhypusine synthase | DHPS | 1725 |
| 210788_s_at | dehydrogenase/reductase (SDR family) member 7 | DHRS7 | 51635 |
| 219799_s_at | dehydrogenase/reductase (SDR family) member 9 | DHRS9 | 10170 |
| 224009_x_at | dehydrogenase/reductase (SDR family) member 9 | DHRS9 | 10170 |
| 223952_x_at | dehydrogenase/reductase (SDR family) member 9 | DHRS9 | 10170 |
| 225503_at | dehydrogenase/reductase (SDR family) X-linked | DHRSX | 207063 |
| 209916_at | dehydrogenase E1 and transketolase domain containing 1 | DHTKD1 | 55526 |
| 227094_at | dehydrogenase E1 and transketolase domain containing 1 | DHTKD1 | 55526 |
| 212649_at | DEAH (Asp-Glu-Ala-His) box polypeptide 29 | DHX29 | 54505 |
| 230871_at | DEAH (Asp-Glu-Ala-His) box polypeptide 30 | DHX30 | 22907 |
| 1556144_at | DEAH (Asp-Glu-Ala-His) box polypeptide 30 | DHX30 | 22907 |
| 218277_s_at | DEAH (Asp-Glu-Ala-His) box polypeptide 40 | DHX40 | 79665 |
| 222574_s_at | DEAH (Asp-Glu-Ala-His) box polypeptide 40 | DHX40 | 79665 |
| 219350_s_at | diablo homolog (Drosophila) | DIABLO | 56616 |
| 209190_s_at | diaphanous homolog 1 (Drosophila) | DIAPH1 | 1729 |
| 229097_at | diaphanous homolog 3 (Drosophila) | DIAPH3 | 81624 |
| 212888_at | Dicer1, Dcr-1 homolog (Drosophila) | DICER1 | 23405 |
| 206061_s_at | Dicer1, Dcr-1 homolog (Drosophila) | DICER1 | 23405 |
| 213229_at | Dicer1, Dcr-1 homolog (Drosophila) | DICER1 | 23405 |
| 218325_s_at | death inducer-obliterator 1 | DIDO1 | 11083 |
| 227335_at | death inducer-obliterator 1 | DIDO1 | 11083 |
| 231240_at | deiiodinase, iodothyronine, type II | DIO2 | 1734 |
| 215529_x_at | DIP2 disco-interacting protein 2 homolog A (Drosophila) | DIP2A | 23181 |
| 242970_at | DIP2 disco-interacting protein 2 homolog B (Drosophila) | DIP2B | 57609 |
| 226026_at | disrupted in renal carcinoma 2 | DIRC2 | 84925 |

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| 218362_s_at | DIS3 mitotic control homolog (S. cerevisiae) | <i>DIS3</i> | 22894 |
| 214194_at | DIS3 mitotic control homolog (S. cerevisiae) | <i>DIS3</i> | 22894 |
| 235005_at | DIS3 mitotic control homolog (S. cerevisiae)-like | <i>DIS3L</i> | 115752 |
| 238602_at | DIS3 mitotic control homolog (S. cerevisiae)-like 2 | <i>DIS3L2</i> | 129563 |
| 230006_s_at | hypothetical protein DKFZp313A2432 | <i>DKFZp313A2432</i> | 258010 |
| 230005_at | hypothetical protein DKFZp313A2432 | <i>DKFZp313A2432</i> | 258010 |
| 233092_s_at | DKFZP434B061 protein | <i>DKFZP434B061</i> | 26080 |
| 231886_at | similar to hypothetical protein LOC284701 | <i>DKFZP434B2016</i> | 642780 |
| 224123_at | hypothetical protein DKFZp434F142 | <i>DKFZp434F142</i> | 84214 |
| 225680_at | hypothetical protein DKFZp434K1815 | <i>DKFZp434K1815</i> | 222229 |
| 1557633_at | hypothetical locus DKFZp434K191 | <i>DKFZp434K191</i> | 29797 |
| 206819_at | POM121-like protein | <i>DKFZP434P211</i> | 29774 |
| 231540_at | hypothetical protein DKFZp451M2119 | <i>DKFZp451M2119</i> | 100130691 |
| 1558534_at | hypothetical gene LOC283846 | <i>DKFZp547E087</i> | 283846 /// |
| 216028_at | DKFZP564C152 protein | <i>DKFZP564C152</i> | --- |
| 204687_at | DKFZP564O0823 protein | <i>DKFZP564O0823</i> | 25849 |
| 213546_at | hypothetical protein DKFZp586I1420 | <i>DKFZp586I1420</i> | 222161 |
| 213199_at | hypothetical protein | <i>DKFZP586P0123</i> | 26005 |
| 236079_at | hypothetical protein DKFZp667E0512 | <i>DKFZp667E0512</i> | 202025 |
| 1559756_at | hypothetical protein DKFZp667F0711 | <i>DKFZp667F0711</i> | 399716 |
| 214030_at | hypothetical protein DKFZp667G2110 | <i>DKFZp667G2110</i> | 131544 |
| 230421_at | similar to hypothetical protein 9630041N07 | <i>DKFZp686E2433</i> | 345462 |
| 231412_at | hypothetical gene supported by BX538329 | <i>DKFZp686L14188</i> | 441366 |
| 215470_at | general transcription factor IIH, polypeptide 2, 44kDa-like | <i>DKFZP686M0199</i> | 653238 |
| 221540_x_at | general transcription factor IIH, polypeptide 2, 44kDa /// general transcription f | <i>DKFZP686M0199</i> | 2966 /// 65 |
| 216877_at | Hypothetical gene supported by BC043549; BX648102 | <i>DKFZp686O1327</i> | 401014 |
| 235085_at | homolog of rat pragma of Rnd2 | <i>DKFZp761P0423</i> | 157285 |
| 219908_at | dickkopf homolog 2 (Xenopus laevis) | <i>DKK2</i> | 27123 |
| 212568_s_at | dihydrolipoamide S-acetyltransferase (E2 component of pyruvate dehydrogenas | <i>DLAT</i> | 1737 |
| 216870_x_at | deleted in lymphocytic leukemia, 2 | <i>DLEU2</i> | 8847 |
| 202514_at | discs, large homolog 1 (Drosophila) | <i>DLG1</i> | 1739 |
| 202515_at | discs, large homolog 1 (Drosophila) | <i>DLG1</i> | 1739 |
| 230229_at | Discs, large homolog 1 (Drosophila) | <i>DLG1</i> | 1739 |
| 206253_at | discs, large homolog 2, chapsyn-110 (Drosophila) | <i>DLG2</i> | 1740 |
| 203764_at | discs, large homolog 7 (Drosophila) | <i>DLG7</i> | 9787 |
| 233056_x_at | discs, large (Drosophila) homolog-associated protein 4 | <i>DLGAP4</i> | 22839 |
| 224215_s_at | delta-like 1 (Drosophila) | <i>DLL1</i> | 28514 |
| 207660_at | dystrophin (muscular dystrophy, Duchenne and Becker types) | <i>DMD</i> | 1756 |
| 203881_s_at | dystrophin (muscular dystrophy, Duchenne and Becker types) | <i>DMD</i> | 1756 |
| 241472_at | Dmx-like 1 | <i>DMXL1</i> | --- |
| 203791_at | Dmx-like 1 | <i>DMXL1</i> | 1657 |
| 212820_at | Dmx-like 2 | <i>DMXL2</i> | 23312 |
| 213647_at | DNA2 DNA replication helicase 2-like (yeast) | <i>DNA2L</i> | 1763 |
| 1560416_at | dynein, axonemal, heavy chain 11 | <i>DNAH11</i> | 8701 |
| 220725_x_at | Dynein, axonemal, heavy chain 3 | <i>DNAH3</i> | 55567 |
| 214222_at | dynein, axonemal, heavy chain 7 | <i>DNAH7</i> | 56171 |
| 209157_at | DnaJ (Hsp40) homolog, subfamily A, member 2 | <i>DNAJA2</i> | 10294 |
| 1554078_s_at | DnaJ (Hsp40) homolog, subfamily A, member 3 | <i>DNAJA3</i> | 9093 |
| 205963_s_at | DnaJ (Hsp40) homolog, subfamily A, member 3 | <i>DNAJA3</i> | 9093 |
| 202866_at | DnaJ (Hsp40) homolog, subfamily B, member 12 | <i>DNAJB12</i> | 54788 |
| 202500_at | DnaJ (Hsp40) homolog, subfamily B, member 2 | <i>DNAJB2</i> | 3300 |
| 203810_at | DnaJ (Hsp40) homolog, subfamily B, member 4 | <i>DNAJB4</i> | 11080 |
| 208811_s_at | DnaJ (Hsp40) homolog, subfamily B, member 6 | <i>DNAJB6</i> | 10049 |
| 209015_s_at | DnaJ (Hsp40) homolog, subfamily B, member 6 | <i>DNAJB6</i> | 10049 |
| 208810_at | DnaJ (Hsp40) homolog, subfamily B, member 6 /// similar to DnaJ (Hsp40) homoc | <i>DNAJB6</i> /// <i>LOC38</i> | 10049 |
| 1554462_a_at | DnaJ (Hsp40) homolog, subfamily B, member 9 | <i>DNAJB9</i> | 4189 |
| 202843_at | DnaJ (Hsp40) homolog, subfamily B, member 9 | <i>DNAJB9</i> | 4189 |
| 202842_s_at | DnaJ (Hsp40) homolog, subfamily B, member 9 | <i>DNAJB9</i> | 4189 |
| 222620_s_at | DnaJ (Hsp40) homolog, subfamily C, member 1 | <i>DNAJC1</i> | 64215 |
| 225174_at | DnaJ (Hsp40) homolog, subfamily C, member 10 | <i>DNAJC10</i> | 54431 |
| 227808_at | DnaJ (Hsp40) homolog, subfamily C, member 15 | <i>DNAJC15</i> | 29103 |
| 218435_at | DnaJ (Hsp40) homolog, subfamily C, member 15 | <i>DNAJC15</i> | 29103 |
| 225358_at | DnaJ (Hsp40) homolog, subfamily C, member 19 | <i>DNAJC19</i> | 131118 |

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|--------------|---|---------------------------------|--------------|
| 225359_at | DnaJ (Hsp40) homolog, subfamily C, member 19 | <i>DNAJC19</i> | 131118 |
| 235341_at | DnaJ (Hsp40) homolog, subfamily C, member 3 | <i>DNAJC3</i> | 5611 |
| 208499_s_at | DnaJ (Hsp40) homolog, subfamily C, member 3 | <i>DNAJC3</i> | 5611 |
| 225284_at | DnaJ (Hsp40) homolog, subfamily C, member 3 /// hypothetical protein LOC144 | <i>DNAJC3</i> /// <i>LOC144</i> | 144871 |
| 1558080_s_at | DnaJ (Hsp40) homolog, subfamily C, member 3 /// hypothetical protein LOC144 | <i>DNAJC3</i> /// <i>LOC144</i> | 144871 |
| 228622_s_at | DnaJ (Hsp40) homolog, subfamily C, member 4 | <i>DNAJC4</i> | 3338 |
| 206782_s_at | DnaJ (Hsp40) homolog, subfamily C, member 4 | <i>DNAJC4</i> | 3338 |
| 224613_s_at | DnaJ (Hsp40) homolog, subfamily C, member 5 | <i>DNAJC5</i> | 80331 |
| 232798_at | DnaJ (Hsp40) homolog, subfamily C, member 5 beta | <i>DNAJC5B</i> | 85479 |
| 212491_s_at | DnaJ (Hsp40) homolog, subfamily C, member 8 | <i>DNAJC8</i> | 22826 |
| 213088_s_at | DnaJ (Hsp40) homolog, subfamily C, member 9 | <i>DNAJC9</i> | 23234 |
| 203912_s_at | deoxyribonuclease I-like 1 | <i>DNASE1L1</i> | 1774 |
| 205554_s_at | deoxyribonuclease I-like 3 | <i>DNASE1L3</i> | 1776 |
| 222070_at | dead end homolog 1 (zebrafish) | <i>DND1</i> | 373863 |
| 243802_at | Dynein heavy chain domain 2 | <i>DNHD2</i> | 201625 |
| 226154_at | dynamamin 1-like | <i>DNM1L</i> | 10059 |
| 203105_s_at | dynamamin 1-like | <i>DNM1L</i> | 10059 |
| 1558501_at | dynamamin 3 | <i>DNM3</i> | 26052 |
| 209839_at | dynamamin 3 | <i>DNM3</i> | 26052 |
| 222640_at | DNA (cytosine-5-)-methyltransferase 3 alpha | <i>DNMT3A</i> | 1788 |
| 234942_s_at | deoxynucleotidyltransferase, terminal, interacting protein 1 | <i>DNTTIP1</i> | 116092 |
| 224825_at | deoxynucleotidyltransferase, terminal, interacting protein 1 | <i>DNTTIP1</i> | 116092 |
| 205003_at | dedicator of cytokinesis 4 | <i>DOCK4</i> | 9732 |
| 1558691_a_at | dedicator of cytokinesis 4 | <i>DOCK4</i> | 9732 |
| 1569590_at | dedicator of cytokinesis 5 | <i>DOCK5</i> | 80005 |
| 230207_s_at | Dedicator of cytokinesis 5 | <i>DOCK5</i> | 80005 |
| 230206_at | Dedicator of cytokinesis 5 | <i>DOCK5</i> | 80005 |
| 1570078_a_at | dedicator of cytokinesis 5 | <i>DOCK5</i> | 80005 |
| 222721_at | dedicator of cytokinesis 5 | <i>DOCK5</i> | 80005 |
| 232842_at | dedicator of cytokinesis 8 | <i>DOCK8</i> | 81704 |
| 212538_at | dedicator of cytokinesis 9 | <i>DOCK9</i> | 23348 |
| 214054_at | docking protein 2, 56kDa | <i>DOK2</i> | 9046 |
| 220320_at | docking protein 3 | <i>DOK3</i> | 79930 |
| 214844_s_at | docking protein 5 | <i>DOK5</i> | 55816 |
| 38157_at | dom-3 homolog Z (C. elegans) | <i>DOM3Z</i> | 1797 |
| 221677_s_at | downstream neighbor of SON | <i>DONSON</i> | 29980 |
| 231297_at | DOT1-like, histone H3 methyltransferase (S. cerevisiae) | <i>DOT1L</i> | 84444 |
| 219452_at | dipeptidase 2 | <i>DPEP2</i> | 64174 |
| 220179_at | dipeptidase 3 | <i>DPEP3</i> | 64180 |
| 225195_at | DPH3, KTI11 homolog (S. cerevisiae) | <i>DPH3</i> | 285381 |
| 213853_at | DPH4, JJJ3 homolog (S. cerevisiae) | <i>DPH4</i> | 120526 |
| 219590_x_at | DPH5 homolog (S. cerevisiae) | <i>DPH5</i> | 51611 |
| 223671_x_at | DPH5 homolog (S. cerevisiae) | <i>DPH5</i> | 51611 |
| 202673_at | dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit | <i>DPM1</i> | 8813 |
| 231385_at | developmental pluripotency associated 3 | <i>DPPA3</i> | 359787 /// 4 |
| 232985_s_at | developmental pluripotency associated 4 | <i>DPPA4</i> | 55211 |
| 219651_at | developmental pluripotency associated 4 | <i>DPPA4</i> | 55211 |
| 212792_at | dpy-19-like 1 (C. elegans) | <i>DPY19L1</i> | 23333 |
| 1557290_at | dpy-19-like 2 (C. elegans) /// dpy-19-like 2 pseudogene 2 (C. elegans) /// dpy-19 | <i>DPY19L2</i> /// <i>DPY15</i> | 283417 /// 5 |
| 215143_at | dpy-19-like 2 pseudogene 2 (C. elegans) | <i>DPY19L2P2</i> | 349152 |
| 225633_at | dpy-19-like 3 (C. elegans) | <i>DPY19L3</i> | 147991 |
| 1554534_at | dihydropyrimidine dehydrogenase | <i>DPYD</i> | 1806 |
| 204646_at | dihydropyrimidine dehydrogenase | <i>DPYD</i> | 1806 |
| 241992_at | Damage-regulated autophagy modulator | <i>DRAM</i> | 55332 |
| 237702_at | Developmentally regulated RNA-binding protein 1 | <i>DRB1</i> | 129831 |
| 206590_x_at | dopamine receptor D2 | <i>DRD2</i> | 1813 |
| 208486_at | dopamine receptor D5 | <i>DRD5</i> | 1816 |
| 204751_x_at | desmocolin 2 | <i>DSC2</i> | 1824 |
| 203405_at | Down syndrome critical region gene 2 | <i>DSCR2</i> | 8624 |
| 203635_at | Down syndrome critical region gene 3 | <i>DSCR3</i> | 10311 |
| 217309_s_at | Down syndrome critical region gene 3 | <i>DSCR3</i> | 10311 |
| 218854_at | dermatan sulfate epimerase | <i>DSE</i> | 29940 |
| 206642_at | desmoglein 1 | <i>DSG1</i> | 1828 |

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|--------------|---|--------------------------|------------|
| 219512_at | DSN1, MIND kinetochore complex component, homolog (S. cerevisiae) | <i>DSN1</i> | 79980 |
| 221681_s_at | dentin sialophosphoprotein | <i>DSPP</i> | 1834 |
| 215810_x_at | Dystonin | <i>DST</i> | 667 |
| 218585_s_at | denticleless homolog (Drosophila) | <i>DTL</i> | 51514 |
| 222680_s_at | denticleless homolog (Drosophila) | <i>DTL</i> | 51514 |
| 223445_at | dystrobrevin binding protein 1 | <i>DTNBP1</i> | 84062 |
| 223446_s_at | dystrobrevin binding protein 1 | <i>DTNBP1</i> | 84062 |
| 223763_at | dystrobrevin binding protein 1 | <i>DTNBP1</i> | 84062 |
| 236649_at | DTW domain containing 1 | <i>DTWD1</i> | 56986 |
| 215732_s_at | deltex homolog 2 (Drosophila) | <i>DTX2</i> | 100134197, |
| 225415_at | deltex 3-like (Drosophila) | <i>DTX3L</i> | 151636 |
| 212611_at | deltex 4 homolog (Drosophila) | <i>DTX4</i> | 23220 |
| 1565795_at | dual oxidase 1 | <i>DUOX1</i> | 53905 |
| 47105_at | dihydrouridine synthase 2-like, SMM1 homolog (S. cerevisiae) | <i>DUS2L</i> | 54920 |
| 219486_at | dihydrouridine synthase 2-like, SMM1 homolog (S. cerevisiae) | <i>DUS2L</i> | 54920 |
| 224966_s_at | dihydrouridine synthase 3-like (S. cerevisiae) | <i>DUS3L</i> | 56931 |
| 201041_s_at | dual specificity phosphatase 1 | <i>DUSP1</i> | 1843 |
| 221563_at | dual specificity phosphatase 10 | <i>DUSP10</i> | 11221 |
| 215501_s_at | dual specificity phosphatase 10 | <i>DUSP10</i> | 11221 |
| 219963_at | dual specificity phosphatase 13 | <i>DUSP13</i> | 51207 |
| 1555399_a_at | dual specificity phosphatase 16 | <i>DUSP16</i> | 80824 |
| 224832_at | dual specificity phosphatase 16 | <i>DUSP16</i> | 80824 |
| 224336_s_at | dual specificity phosphatase 16 | <i>DUSP16</i> | 80824 |
| 1555598_a_at | dual specificity phosphatase 19 | <i>DUSP19</i> | 142679 |
| 204794_at | dual specificity phosphatase 2 | <i>DUSP2</i> | 1844 |
| 223402_at | dual specificity phosphatase 23 | <i>DUSP23</i> | 54935 |
| 201536_at | dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related) | <i>DUSP3</i> | 1845 |
| 201538_s_at | dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related) | <i>DUSP3</i> | 1845 |
| 201537_s_at | dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related) | <i>DUSP3</i> | 1845 |
| 209457_at | dual specificity phosphatase 5 | <i>DUSP5</i> | 1847 |
| 208893_s_at | dual specificity phosphatase 6 | <i>DUSP6</i> | 1848 |
| 208956_x_at | dUTP pyrophosphatase | <i>DUT</i> | 1854 |
| 209932_s_at | dUTP pyrophosphatase | <i>DUT</i> | 1854 |
| 208955_at | dUTP pyrophosphatase | <i>DUT</i> | 1854 |
| 220774_at | dymeclin | <i>DYM</i> | 54808 |
| 211684_s_at | dynein, cytoplasmic 1, intermediate chain 2 | <i>DYNC1I2</i> | 1781 |
| 222479_s_at | dynein, cytoplasmic 1, light intermediate chain 1 | <i>DYNC1LI1</i> | 51143 |
| 1565149_at | dynein, cytoplasmic 2, heavy chain 1 | <i>DYNC2H1</i> | 79659 |
| 200703_at | dynein, light chain, LC8-type 1 /// similar to dynein, cytoplasmic, light peptide | <i>DYNLL1 /// LOC731</i> | 8655 |
| 203303_at | dynein, light chain, Tctex-type 3 | <i>DYNLT3</i> | 6990 |
| 211079_s_at | dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A | <i>DYRK1A</i> | 1859 |
| 209033_s_at | dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A | <i>DYRK1A</i> | 1859 |
| 202968_s_at | dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2 | <i>DYRK2</i> | 8445 |
| 202971_s_at | dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2 | <i>DYRK2</i> | 8445 |
| 202970_at | dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2 | <i>DYRK2</i> | 8445 |
| 218660_at | dysferlin, limb girdle muscular dystrophy 2B (autosomal recessive) | <i>DYSF</i> | 8291 |
| 235273_at | dyslexia susceptibility 1 candidate 1 | <i>DYX1C1</i> | 161582 |
| 241713_s_at | dyslexia susceptibility 1 candidate 1 | <i>DYX1C1</i> | 161582 |
| 203693_s_at | E2F transcription factor 3 | <i>E2F3</i> | 1871 |
| 203957_at | E2F transcription factor 6 | <i>E2F6</i> | 1876 |
| 228033_at | E2F transcription factor 7 | <i>E2F7</i> | 144455 |
| 226952_at | ELL associated factor 1 | <i>ELF1</i> | 85403 |
| 219551_at | ELL associated factor 2 | <i>ELF2</i> | 55840 |
| 202623_at | E2F-associated phosphoprotein | <i>EAPP</i> | 55837 |
| 205419_at | Epstein-Barr virus induced gene 2 (lymphocyte-specific G protein-coupled recep | <i>EBI2</i> | 1880 |
| 223306_at | emopamil binding protein-like | <i>EBPL</i> | 84650 |
| 223087_at | enoyl Coenzyme A hydratase domain containing 1 | <i>ECHDC1</i> | 55862 |
| 233124_s_at | enoyl Coenzyme A hydratase domain containing 1 | <i>ECHDC1</i> | 55862 |
| 219974_x_at | enoyl Coenzyme A hydratase domain containing 1 | <i>ECHDC1</i> | 55862 |
| 223088_x_at | enoyl Coenzyme A hydratase domain containing 1 | <i>ECHDC1</i> | 55862 |
| 235305_s_at | enoyl Coenzyme A hydratase domain containing 2 | <i>ECHDC2</i> | 55268 |
| 208091_s_at | EGFR-coamplified and overexpressed protein | <i>ECOP</i> | 81552 |
| 219787_s_at | epithelial cell transforming sequence 2 oncogene | <i>ECT2</i> | 1894 |

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|--------------|--|----------------|-----------|
| 220048_at | ectodysplasin A receptor | <i>EDAR</i> | 10913 |
| 203279_at | ER degradation enhancer, mannosidase alpha-like 1 | <i>EDEM1</i> | 9695 |
| 230659_at | ER degradation enhancer, mannosidase alpha-like 1 | <i>EDEM1</i> | --- |
| 220342_x_at | ER degradation enhancer, mannosidase alpha-like 3 | <i>EDEM3</i> | 80267 |
| 220926_s_at | ER degradation enhancer, mannosidase alpha-like 3 | <i>EDEM3</i> | 80267 |
| 209058_at | endothelial differentiation-related factor 1 | <i>EDF1</i> | 8721 |
| 209059_s_at | endothelial differentiation-related factor 1 | <i>EDF1</i> | 8721 |
| 204642_at | endothelial differentiation, sphingolipid G-protein-coupled receptor, 1 | <i>EDG1</i> | 1901 |
| 204038_s_at | endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2 | <i>EDG2</i> | 1902 |
| 204036_at | endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2 | <i>EDG2</i> | 1902 |
| 206437_at | endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 6 | <i>EDG6</i> | 8698 |
| 207379_at | EGF-like repeats and discoidin I-like domains 3 | <i>EDIL3</i> | 10085 |
| 1558643_s_at | EGF-like repeats and discoidin I-like domains 3 | <i>EDIL3</i> | 10085 |
| 225275_at | EGF-like repeats and discoidin I-like domains 3 | <i>EDIL3</i> | 10085 |
| 218995_s_at | endothelin 1 | <i>EDN1</i> | 1906 |
| 204463_s_at | endothelin receptor type A | <i>EDNRA</i> | 1909 |
| 204271_s_at | endothelin receptor type B | <i>EDNRB</i> | 1910 |
| 225885_at | early endosome antigen 1 | <i>EEA1</i> | 8411 |
| 204841_s_at | early endosome antigen 1 | <i>EEA1</i> | 8411 |
| 209572_s_at | embryonic ectoderm development | <i>EED</i> | 8726 |
| 203113_s_at | eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange p | <i>EEF1D</i> | 1936 |
| 204905_s_at | eukaryotic translation elongation factor 1 epsilon 1 | <i>EEF1E1</i> | 9521 |
| 225546_at | eukaryotic elongation factor-2 kinase | <i>EEF2K</i> | 29904 |
| 225545_at | eukaryotic elongation factor-2 kinase | <i>EEF2K</i> | 29904 |
| 223608_at | EF-hand calcium binding domain 2 | <i>EFCAB2</i> | 84288 |
| 1553392_at | EF-hand calcium binding domain 3 | <i>EFCAB3</i> | 100133744 |
| 1557961_s_at | EF-hand calcium binding protein 1 | <i>EFCBP1</i> | 100127983 |
| 215005_at | EF-hand calcium binding protein 2 | <i>EFCBP2</i> | 54550 |
| 209356_x_at | EGF-containing fibulin-like extracellular matrix protein 2 | <i>EFEMP2</i> | 30008 |
| 206580_s_at | EGF-containing fibulin-like extracellular matrix protein 2 | <i>EFEMP2</i> | 30008 |
| 225656_at | EF-hand domain (C-terminal) containing 1 | <i>EFHC1</i> | 114327 |
| 222483_at | EF-hand domain family, member D2 | <i>EFHD2</i> | 79180 |
| 202668_at | ephrin-B2 | <i>EFNB2</i> | 1948 |
| 206254_at | epidermal growth factor (beta-urogastrone) | <i>EGF</i> | 1950 |
| 223046_at | egl nine homolog 1 (C. elegans) | <i>EGLN1</i> | 54583 |
| 224314_s_at | egl nine homolog 1 (C. elegans) | <i>EGLN1</i> | 54583 |
| 221497_x_at | egl nine homolog 1 (C. elegans) | <i>EGLN1</i> | 54583 |
| 223045_at | egl nine homolog 1 (C. elegans) | <i>EGLN1</i> | 54583 |
| 220956_s_at | egl nine homolog 2 (C. elegans) | <i>EGLN2</i> | 112398 |
| 212650_at | EH domain binding protein 1 | <i>EHBP1</i> | 23301 |
| 209039_x_at | EH-domain containing 1 | <i>EHD1</i> | 10938 |
| 209037_s_at | EH-domain containing 1 | <i>EHD1</i> | 10938 |
| 222221_x_at | EH-domain containing 1 | <i>EHD1</i> | 10938 |
| 209038_s_at | EH-domain containing 1 | <i>EHD1</i> | 10938 |
| 208112_x_at | EH-domain containing 1 | <i>EHD1</i> | 10938 |
| 209536_s_at | EH-domain containing 4 | <i>EHD4</i> | 30844 |
| 224189_x_at | ets homologous factor | <i>EHF</i> | 26298 |
| 225645_at | Ets homologous factor | <i>EHF</i> | 26298 |
| 216396_s_at | etoposide induced 2.4 mRNA | <i>EI24</i> | 9538 |
| 211698_at | EP300 interacting inhibitor of differentiation 1 | <i>EID1</i> | 23741 |
| 208669_s_at | EP300 interacting inhibitor of differentiation 1 | <i>EID1</i> | 23741 |
| 211956_s_at | eukaryotic translation initiation factor 1 | <i>EIF1</i> | 10209 |
| 212130_x_at | eukaryotic translation initiation factor 1 | <i>EIF1</i> | 10209 |
| 202021_x_at | eukaryotic translation initiation factor 1 | <i>EIF1</i> | 10209 |
| 212227_x_at | eukaryotic translation initiation factor 1 | <i>EIF1</i> | 10209 |
| 212225_at | eukaryotic translation initiation factor 1 | <i>EIF1</i> | 10209 |
| 201738_at | eukaryotic translation initiation factor 1B | <i>EIF1B</i> | 10289 |
| 204211_x_at | eukaryotic translation initiation factor 2-alpha kinase 2 | <i>EIF2AK2</i> | 5610 |
| 218696_at | eukaryotic translation initiation factor 2-alpha kinase 3 | <i>EIF2AK3</i> | 9451 |
| 225164_s_at | eukaryotic translation initiation factor 2 alpha kinase 4 | <i>EIF2AK4</i> | 440275 |
| 201632_at | eukaryotic translation initiation factor 2B, subunit 1 alpha, 26kDa | <i>EIF2B1</i> | 1967 |
| 202461_at | eukaryotic translation initiation factor 2B, subunit 2 beta, 39kDa | <i>EIF2B2</i> | 8892 |
| 215482_s_at | eukaryotic translation initiation factor 2B, subunit 4 delta, 67kDa | <i>EIF2B4</i> | 8890 |

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|--------------|---|---------------------------|--------------|
| 212351_at | eukaryotic translation initiation factor 2B, subunit 5 epsilon, 82kDa | <i>EIF2B5</i> | 8893 |
| 218287_s_at | eukaryotic translation initiation factor 2C, 1 | <i>EIF2C1</i> | 26523 |
| 225827_at | eukaryotic translation initiation factor 2C, 2 | <i>EIF2C2</i> | 27161 |
| 219190_s_at | eukaryotic translation initiation factor 2C, 4 | <i>EIF2C4</i> | 192669 /// : |
| 222842_at | eukaryotic translation initiation factor 2C, 4 | <i>EIF2C4</i> | 192669 /// : |
| 227930_at | eukaryotic translation initiation factor 2C, 4 | <i>EIF2C4</i> | 192670 |
| 201142_at | eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa | <i>EIF2S1</i> | 1965 |
| 201143_s_at | eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa | <i>EIF2S1</i> | 1965 |
| 208726_s_at | eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa | <i>EIF2S2</i> | 8894 |
| 200597_at | eukaryotic translation initiation factor 3, subunit A | <i>EIF3A</i> | 8661 |
| 242550_at | eukaryotic translation initiation factor 3, subunit B | <i>EIF3B</i> | 8662 |
| 208688_x_at | eukaryotic translation initiation factor 3, subunit B | <i>EIF3B</i> | 8662 |
| 203462_x_at | eukaryotic translation initiation factor 3, subunit B | <i>EIF3B</i> | 8662 |
| 215230_x_at | eukaryotic translation initiation factor 3, subunit C /// eukaryotic translation init | <i>EIF3C /// EIF3CL</i> | 728689 /// : |
| 200647_x_at | eukaryotic translation initiation factor 3, subunit C /// eukaryotic translation init | <i>EIF3C /// EIF3CL</i> | 728689 /// : |
| 200005_at | eukaryotic translation initiation factor 3, subunit D | <i>EIF3D</i> | 8664 |
| 208697_s_at | eukaryotic translation initiation factor 3, subunit E | <i>EIF3E</i> | 3646 |
| 217364_x_at | eukaryotic translation initiation factor 3, subunit J /// hypothetical protein LOC7 | <i>EIF3J /// LOC73002</i> | 8669 |
| 215190_at | eukaryotic translation initiation factor 3, subunit M | <i>EIF3M</i> | 10480 |
| 202232_s_at | eukaryotic translation initiation factor 3, subunit M | <i>EIF3M</i> | 10480 |
| 201303_at | eukaryotic translation initiation factor 4A, isoform 3 | <i>EIF4A3</i> | 9775 |
| 201437_s_at | eukaryotic translation initiation factor 4E | <i>EIF4E</i> | 1977 |
| 226734_at | eukaryotic translation initiation factor 4E family member 2 | <i>EIF4E2</i> | 9470 |
| 213571_s_at | eukaryotic translation initiation factor 4E family member 2 | <i>EIF4E2</i> | 9470 |
| 209393_s_at | eukaryotic translation initiation factor 4E family member 2 | <i>EIF4E2</i> | 9470 |
| 238461_at | eukaryotic translation initiation factor 4E family member 3 | <i>EIF4E3</i> | 317649 |
| 225939_at | eukaryotic translation initiation factor 4E family member 3 | <i>EIF4E3</i> | 317649 |
| 221539_at | eukaryotic translation initiation factor 4E binding protein 1 | <i>EIF4EBP1</i> | 1978 |
| 208769_at | eukaryotic translation initiation factor 4E binding protein 2 | <i>EIF4EBP2</i> | --- |
| 214919_s_at | eukaryotic translation initiation factor 4E binding protein 3 /// MASK-4E-BP3 alt | <i>EIF4EBP3 /// MASK</i> | 404734 /// : |
| 208624_s_at | eukaryotic translation initiation factor 4 gamma, 1 | <i>EIF4G1</i> | 1981 |
| 1554309_at | eukaryotic translation initiation factor 4 gamma, 3 | <i>EIF4G3</i> | 8672 |
| 206621_s_at | eukaryotic translation initiation factor 4H | <i>EIF4H</i> | 7458 |
| 208705_s_at | eukaryotic translation initiation factor 5 | <i>EIF5</i> | 1983 |
| 208290_s_at | eukaryotic translation initiation factor 5 | <i>EIF5</i> | 1983 |
| 208708_x_at | eukaryotic translation initiation factor 5 | <i>EIF5</i> | 1983 |
| 208707_at | eukaryotic translation initiation factor 5 | <i>EIF5</i> | 1983 |
| 235296_at | eukaryotic translation initiation factor 5A2 | <i>EIF5A2</i> | 56648 |
| 201026_at | eukaryotic translation initiation factor 5B | <i>EIF5B</i> | 9669 |
| 201024_x_at | eukaryotic translation initiation factor 5B | <i>EIF5B</i> | 9669 |
| 201025_at | eukaryotic translation initiation factor 5B | <i>EIF5B</i> | 9669 |
| 214314_s_at | eukaryotic translation initiation factor 5B | <i>EIF5B</i> | 9669 |
| 228260_at | ELAV (embryonic lethal, abnormal vision, Drosophila)-like 2 (Hu antigen B) | <i>ELAVL2</i> | 1993 |
| 212418_at | E74-like factor 1 (ets domain transcription factor) | <i>ELF1</i> | 1997 |
| 212420_at | E74-like factor 1 (ets domain transcription factor) | <i>ELF1</i> | 1997 |
| 220625_s_at | E74-like factor 5 (ets domain transcription factor) | <i>ELF5</i> | 2001 |
| 210376_x_at | ELK1, member of ETS oncogene family | <i>ELK1</i> | 2002 |
| 206127_at | ELK3, ETS-domain protein (SRF accessory protein 2) | <i>ELK3</i> | 2004 |
| 225159_s_at | ELK4, ETS-domain protein (SRF accessory protein 1) | <i>ELK4</i> | --- |
| 238761_at | ELK4, ETS-domain protein (SRF accessory protein 1) | <i>ELK4</i> | --- |
| 214831_at | ELK4, ETS-domain protein (SRF accessory protein 1) | <i>ELK4</i> | 80306 |
| 204095_s_at | elongation factor RNA polymerase II | <i>ELL</i> | 8178 |
| 1565254_s_at | elongation factor RNA polymerase II | <i>ELL</i> | 8178 |
| 204096_s_at | elongation factor RNA polymerase II | <i>ELL</i> | 8178 |
| 226099_at | elongation factor, RNA polymerase II, 2 | <i>ELL2</i> | 22936 |
| 214446_at | elongation factor, RNA polymerase II, 2 | <i>ELL2</i> | 22936 |
| 226982_at | elongation factor, RNA polymerase II, 2 | <i>ELL2</i> | 22936 |
| 204513_s_at | engulfment and cell motility 1 | <i>ELMO1</i> | 9844 |
| 226502_at | ELMO/CED-12 domain containing 2 | <i>ELMOD2</i> | 255520 |
| 1567222_x_at | ELOVL family member 5, elongation of long chain fatty acids (FEN1/Elo2, SUR4/1) | <i>ELOVL5</i> | 60481 |
| 214153_at | ELOVL family member 5, elongation of long chain fatty acids (FEN1/Elo2, SUR4/1) | <i>ELOVL5</i> | 60481 |
| 204256_at | ELOVL family member 6, elongation of long chain fatty acids (FEN1/Elo2, SUR4/1) | <i>ELOVL6</i> | 79071 |
| 210868_s_at | ELOVL family member 6, elongation of long chain fatty acids (FEN1/Elo2, SUR4/1) | <i>ELOVL6</i> | 79071 |

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|-------------|--|----------------|--------|
| 231713_s_at | elongation protein 2 homolog (<i>S. cerevisiae</i>) | <i>ELP2</i> | 55250 |
| 227075_at | elongation protein 3 homolog (<i>S. cerevisiae</i>) | <i>ELP3</i> | 55140 |
| 219436_s_at | endomucin | <i>EMCN</i> | 51705 |
| 209477_at | emerin (Emery-Dreifuss muscular dystrophy) | <i>EMD</i> | 2010 |
| 234464_s_at | essential meiotic endonuclease 1 homolog 1 (<i>S. pombe</i>) | <i>EME1</i> | 146956 |
| 204398_s_at | echinoderm microtubule associated protein like 2 | <i>EML2</i> | 24139 |
| 223069_s_at | echinoderm microtubule associated protein like 4 | <i>EML4</i> | 27436 |
| 223068_at | echinoderm microtubule associated protein like 4 | <i>EML4</i> | 27436 |
| 220386_s_at | echinoderm microtubule associated protein like 4 | <i>EML4</i> | 27436 |
| 232587_at | echinoderm microtubule associated protein like 4 | <i>EML4</i> | 27436 |
| 228674_s_at | echinoderm microtubule associated protein like 4 | <i>EML4</i> | 27436 |
| 1556732_at | Echinoderm microtubule associated protein like 4 | <i>EML4</i> | 27436 |
| 242443_at | Echinoderm microtubule associated protein like 5 | <i>EML5</i> | 161436 |
| 1568777_at | echinoderm microtubule associated protein like 5 | <i>EML5</i> | 161436 |
| 201324_at | epithelial membrane protein 1 | <i>EMP1</i> | 2012 |
| 203729_at | epithelial membrane protein 3 | <i>EMP3</i> | 2014 |
| 232009_at | egf-like module containing, mucin-like, hormone receptor-like 2 | <i>EMR2</i> | 30817 |
| 207610_s_at | egf-like module containing, mucin-like, hormone receptor-like 2 | <i>EMR2</i> | 30817 |
| 210724_at | egf-like module containing, mucin-like, hormone receptor-like 3 | <i>EMR3</i> | 84658 |
| 228553_at | Enabled homolog (<i>Drosophila</i>) | <i>ENAH</i> | 55740 |
| 212570_at | endonuclease domain containing 1 | <i>ENDOD1</i> | 23052 |
| 212573_at | endonuclease domain containing 1 | <i>ENDOD1</i> | 23052 |
| 201231_s_at | enolase 1, (alpha) | <i>ENO1</i> | 2023 |
| 217294_s_at | enolase 1, (alpha) | <i>ENO1</i> | 2023 |
| 240258_at | enolase 1, (alpha) | <i>ENO1</i> | 2023 |
| 201313_at | enolase 2 (gamma, neuronal) | <i>ENO2</i> | 2026 |
| 204143_s_at | enolase superfamily member 1 | <i>ENOSF1</i> | 55556 |
| 213645_at | enolase superfamily member 1 | <i>ENOSF1</i> | 55556 |
| 32042_at | ecto-NOX disulfide-thiol exchanger 2 | <i>ENOX2</i> | 10495 |
| 204845_s_at | glutamyl aminopeptidase (aminopeptidase A) | <i>ENPEP</i> | 2028 |
| 232737_s_at | ectonucleotide pyrophosphatase/phosphodiesterase 3 | <i>ENPP3</i> | 5169 |
| 204160_s_at | ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative function) | <i>ENPP4</i> | 22875 |
| 227803_at | ectonucleotide pyrophosphatase/phosphodiesterase 5 (putative function) | <i>ENPP5</i> | 59084 |
| 207691_x_at | ectonucleoside triphosphate diphosphohydrolase 1 | <i>ENTPD1</i> | 953 |
| 209473_at | ectonucleoside triphosphate diphosphohydrolase 1 | <i>ENTPD1</i> | 953 |
| 209474_s_at | ectonucleoside triphosphate diphosphohydrolase 1 | <i>ENTPD1</i> | 953 |
| 228585_at | ectonucleoside triphosphate diphosphohydrolase 1 | <i>ENTPD1</i> | 953 |
| 1554094_at | ectonucleoside triphosphate diphosphohydrolase 5 | <i>ENTPD5</i> | 957 |
| 226776_at | Enhancer of yellow 2 homolog (<i>Drosophila</i>) | <i>ENY2</i> | 56943 |
| 226775_at | enhancer of yellow 2 homolog (<i>Drosophila</i>) | <i>ENY2</i> | 56943 |
| 218482_at | enhancer of yellow 2 homolog (<i>Drosophila</i>) | <i>ENY2</i> | 56943 |
| 231776_at | eomesodermin homolog (<i>Xenopus laevis</i>) | <i>EOMES</i> | 8320 |
| 213579_s_at | E1A binding protein p300 | <i>EP300</i> | 2033 |
| 202221_s_at | E1A binding protein p300 | <i>EP300</i> | 2033 |
| 207793_s_at | erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked) | <i>EPB41</i> | 2035 |
| 225051_at | erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked) | <i>EPB41</i> | 2035 |
| 223875_s_at | enhancer of polycomb homolog 1 (<i>Drosophila</i>) | <i>EPC1</i> | 80314 |
| 225838_at | enhancer of polycomb homolog 2 (<i>Drosophila</i>) | <i>EPC2</i> | 26122 |
| 216837_at | EPH receptor A5 | <i>EPHA5</i> | 2044 |
| 238533_at | EPH receptor A7 | <i>EPHA7</i> | 2045 |
| 230425_at | EPH receptor B1 | <i>EPHB1</i> | 2047 |
| 210651_s_at | EPH receptor B2 | <i>EPHB2</i> | 2048 |
| 204718_at | EPH receptor B6 | <i>EPHB6</i> | 2051 |
| 396_f_at | erythropoietin receptor | <i>EPOR</i> | 2057 |
| 209962_at | erythropoietin receptor | <i>EPOR</i> | 2057 |
| 215054_at | erythropoietin receptor | <i>EPOR</i> | 2057 |
| 217886_at | epidermal growth factor receptor pathway substrate 15 | <i>EPS15</i> | 2060 |
| 222113_s_at | epidermal growth factor receptor pathway substrate 15-like 1 | <i>EPS15L1</i> | 58513 |
| 231926_at | epidermal growth factor receptor pathway substrate 15-like 1 | <i>EPS15L1</i> | 58513 |
| 221056_x_at | epidermal growth factor receptor pathway substrate 15-like 1 | <i>EPS15L1</i> | 58513 |
| 227609_at | epithelial stromal interaction 1 (breast) | <i>EPSTI1</i> | 94240 |
| 235276_at | epithelial stromal interaction 1 (breast) | <i>EPSTI1</i> | 94240 |
| 217941_s_at | erbb2 interacting protein | <i>ERBB2IP</i> | 55914 |

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| 222473_s_at | erbb2 interacting protein | <i>ERBB2IP</i> | 55914 |
| 214053_at | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) | <i>ERBB4</i> | 2066 |
| 206794_at | v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) | <i>ERBB4</i> | 2066 |
| 216440_at | ELKS/RAB6-interacting/CAST family member 1 | <i>ERC1</i> | 23085 |
| 202176_at | excision repair cross-complementing rodent repair deficiency, complementation | <i>ERCC3</i> | 2071 |
| 1569583_at | epiregulin | <i>EREG</i> | 2069 |
| 203643_at | Ets2 repressor factor | <i>ERF</i> | 2077 |
| 218135_at | ERGIC and golgi 2 | <i>ERGIC2</i> | 51290 |
| 226422_at | ERGIC and golgi 2 | <i>ERGIC2</i> | 51290 |
| 227016_at | glutamate-rich 1 | <i>ERICH1</i> | 157697 |
| 218498_s_at | ERO1-like (S. cerevisiae) | <i>ERO1L</i> | 30001 |
| 222646_s_at | ERO1-like (S. cerevisiae) | <i>ERO1L</i> | 30001 |
| 220012_at | ERO1-like beta (S. cerevisiae) | <i>ERO1LB</i> | 56605 |
| 227450_at | endoplasmic reticulum protein 27 kDa | <i>ERP27</i> | 121506 |
| 224657_at | ERBB receptor feedback inhibitor 1 | <i>ERRFI1</i> | 54206 |
| 1555299_s_at | endogenous retroviral family W, env(C7), member 1 (syncytin) | <i>ERVWE1</i> | 30816 |
| 226866_at | establishment of cohesion 1 homolog 1 (S. cerevisiae) | <i>ESCO1</i> | 114799 |
| 235216_at | establishment of cohesion 1 homolog 1 (S. cerevisiae) | <i>ESCO1</i> | 114799 |
| 241252_at | establishment of cohesion 1 homolog 2 (S. cerevisiae) | <i>ESCO2</i> | 157570 |
| 228162_at | esterase D/formylglutathione hydrolase | <i>ESD</i> | 2098 |
| 215095_at | Esterase D/formylglutathione hydrolase | <i>ESD</i> | 2098 |
| 218859_s_at | ESF1, nucleolar pre-rRNA processing protein, homolog (S. cerevisiae) | <i>ESF1</i> | 51575 |
| 208394_x_at | endothelial cell-specific molecule 1 | <i>ESM1</i> | 11082 |
| 204817_at | extra spindle pole bodies homolog 1 (S. cerevisiae) | <i>ESPL1</i> | 9700 |
| 38158_at | extra spindle pole bodies homolog 1 (S. cerevisiae) | <i>ESPL1</i> | 9700 |
| 219216_at | Ewing's tumor-associated antigen 1 | <i>ETAA1</i> | 54465 |
| 201574_at | eukaryotic translation termination factor 1 | <i>ETF1</i> | 2107 |
| 201573_s_at | eukaryotic translation termination factor 1 | <i>ETF1</i> | 2107 |
| 201931_at | electron-transfer-flavoprotein, alpha polypeptide (glutaric aciduria II) | <i>ETFA</i> | 2108 |
| 202942_at | electron-transfer-flavoprotein, beta polypeptide | <i>ETFB</i> | 2109 |
| 204034_at | ethylmalonic encephalopathy 1 | <i>ETHE1</i> | 23474 |
| 225290_at | ethanolamine kinase 1 | <i>ETNK1</i> | 55500 |
| 201328_at | v-ets erythroblastosis virus E26 oncogene homolog 2 (avian) | <i>ETS2</i> | 2114 |
| 201329_s_at | v-ets erythroblastosis virus E26 oncogene homolog 2 (avian) | <i>ETS2</i> | 2114 |
| 221910_at | ets variant gene 1 | <i>ETV1</i> | 2115 |
| 203348_s_at | ets variant gene 5 (ets-related molecule) | <i>ETV5</i> | 2119 |
| 203349_s_at | ets variant gene 5 (ets-related molecule) | <i>ETV5</i> | 2119 |
| 230102_at | Ets variant gene 5 (ets-related molecule) | <i>ETV5</i> | 2119 |
| 216375_s_at | ets variant gene 5 (ets-related molecule) | <i>ETV5</i> | 2119 |
| 225764_at | ets variant gene 6 (TEL oncogene) | <i>ETV6</i> | 2120 |
| 224225_s_at | ets variant gene 7 (TEL2 oncogene) | <i>ETV7</i> | 51513 |
| 204774_at | ecotropic viral integration site 2A | <i>EVI2A</i> | 2123 /// 212 |
| 211742_s_at | ecotropic viral integration site 2B | <i>EVI2B</i> | 2124 |
| 209717_at | ecotropic viral integration site 5 | <i>EVI5</i> | 7813 |
| 217838_s_at | Enah/Vasp-like | <i>EVL</i> | 51466 |
| 210012_s_at | Ewing sarcoma breakpoint region 1 | <i>EWSR1</i> | 2130 |
| 228847_at | exocyst complex component 3 | <i>EXOC3</i> | 11336 |
| 1552889_a_at | exocyst complex component 3-like 2 | <i>EXOC3L2</i> | 90332 |
| 240528_s_at | exocyst complex component 4 | <i>EXOC4</i> | 60412 |
| 224926_at | exocyst complex component 4 | <i>EXOC4</i> | 60412 |
| 233924_s_at | exocyst complex component 6 | <i>EXOC6</i> | 54536 |
| 226259_at | exocyst complex component 6 | <i>EXOC6</i> | 54536 |
| 212026_s_at | exocyst complex component 7 | <i>EXOC7</i> | 23265 |
| 214916_x_at | immunoglobulin heavy locus /// immunoglobulin heavy constant alpha 1 /// im | <i>EXOC7 /// IGH@</i> | 100126583 , |
| 227577_at | exocyst complex component 8 | <i>EXOC8</i> | 149371 |
| 207541_s_at | exosome component 10 | <i>EXOSC10</i> | 5394 |
| 91684_g_at | exosome component 4 | <i>EXOSC4</i> | 54512 |
| 58696_at | exosome component 4 | <i>EXOSC4</i> | 54512 |
| 218695_at | exosome component 4 | <i>EXOSC4</i> | 54512 |
| 227696_at | Exosome component 6 | <i>EXOSC6</i> | 118460 |
| 213648_at | exosome component 7 | <i>EXOSC7</i> | 23016 |
| 214734_at | exophilin 5 | <i>EXPH5</i> | 23086 |
| 209537_at | exostoses (multiple)-like 2 | <i>EXTL2</i> | 2135 |

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| 1561088_at | eyes absent homolog 4 (Drosophila) | <i>EYA4</i> | 2070 |
| 205774_at | coagulation factor XII (Hageman factor) | <i>F12</i> | 2161 |
| 203989_x_at | coagulation factor II (thrombin) receptor | <i>F2R</i> | 2149 |
| 213506_at | coagulation factor II (thrombin) receptor-like 1 | <i>F2RL1</i> | 2150 |
| 206429_at | coagulation factor II (thrombin) receptor-like 1 | <i>F2RL1</i> | 2150 |
| 204713_s_at | coagulation factor V (proaccelerin, labile factor) | <i>F5</i> | 2153 |
| 204714_s_at | coagulation factor V (proaccelerin, labile factor) | <i>F5</i> | 2153 |
| 207300_s_at | coagulation factor VII (serum prothrombin conversion accelerator) | <i>F7</i> | 2155 |
| 203980_at | fatty acid binding protein 4, adipocyte | <i>FABP4</i> | 2167 |
| 221601_s_at | Fas apoptotic inhibitory molecule 3 | <i>FAIM3</i> | 9214 |
| 221602_s_at | Fas apoptotic inhibitory molecule 3 | <i>FAIM3</i> | 9214 |
| 224785_at | family with sequence similarity 100, member B | <i>FAM100B</i> | 283991 |
| 224783_at | family with sequence similarity 100, member B | <i>FAM100B</i> | 283991 |
| 226905_at | family with sequence similarity 101, member B | <i>FAM101B</i> | 359845 |
| 226876_at | family with sequence similarity 101, member B | <i>FAM101B</i> | 359845 |
| 212400_at | family with sequence similarity 102, member A | <i>FAM102A</i> | 399665 |
| 226568_at | family with sequence similarity 102, member B | <i>FAM102B</i> | 284611 |
| 227869_at | Family with sequence similarity 104, member B | <i>FAM104B</i> | 90736 |
| 219694_at | family with sequence similarity 105, member A | <i>FAM105A</i> | 54491 |
| 229470_at | Family with sequence similarity 105, member B | <i>FAM105B</i> | --- |
| 228382_at | family with sequence similarity 105, member B | <i>FAM105B</i> | 90268 |
| 223059_s_at | family with sequence similarity 107, member B | <i>FAM107B</i> | 83641 |
| 223058_at | family with sequence similarity 107, member B | <i>FAM107B</i> | 83641 |
| 226584_s_at | family with sequence similarity 110, member A | <i>FAM110A</i> | 83541 |
| 218248_at | family with sequence similarity 111, member A | <i>FAM111A</i> | 63901 |
| 1557129_a_at | family with sequence similarity 111, member B | <i>FAM111B</i> | 374393 |
| 227711_at | family with sequence similarity 112, member B | <i>FAM112B</i> | 121355 |
| 212979_s_at | family with sequence similarity 115, member A | <i>FAM115A</i> | 9747 |
| 221249_s_at | family with sequence similarity 117, member A | <i>FAM117A</i> | 81558 |
| 1555944_at | family with sequence similarity 120A | <i>FAM120A</i> | 23196 |
| 1555945_s_at | family with sequence similarity 120A | <i>FAM120A</i> | 23196 |
| 1558761_a_at | family with sequence similarity 120A opposite strand | <i>FAM120AOS</i> | 158293 |
| 227895_at | family with sequence similarity 120B | <i>FAM120B</i> | 84498 |
| 226774_at | family with sequence similarity 120B | <i>FAM120B</i> | 84498 |
| 225361_x_at | family with sequence similarity 122B | <i>FAM122B</i> | 159090 |
| 222673_x_at | transmembrane protein 57 /// family with sequence similarity 122B | <i>FAM122B</i> /// <i>TME1</i> | 159090 /// 5 |
| 1552323_s_at | family with sequence similarity 122C | <i>FAM122C</i> | 159091 |
| 239047_at | Family with sequence similarity 122C | <i>FAM122C</i> | 159091 |
| 235465_at | family with sequence similarity 123A | <i>FAM123A</i> | 219287 |
| 1556643_at | Family with sequence similarity 125, member A | <i>FAM125A</i> | 100128718 |
| 227239_at | family with sequence similarity 126, member A | <i>FAM126A</i> | 84668 |
| 1554178_a_at | family with sequence similarity 126, member B | <i>FAM126B</i> | 285172 |
| 231874_at | family with sequence similarity 126, member B | <i>FAM126B</i> | 285172 |
| 221904_at | family with sequence similarity 131, member A | <i>FAM131A</i> | 131408 |
| 218037_at | family with sequence similarity 134, member A | <i>FAM134A</i> | 79137 |
| 222129_at | Family with sequence similarity 134, member A | <i>FAM134A</i> | 79137 |
| 221983_at | family with sequence similarity 134, member A | <i>FAM134A</i> | 79137 |
| 221984_s_at | family with sequence similarity 134, member A | <i>FAM134A</i> | 79137 |
| 212697_at | family with sequence similarity 134, member C | <i>FAM134C</i> | 162427 |
| 215947_s_at | family with sequence similarity 136, member A | <i>FAM136A</i> | 84908 |
| 237320_at | family with sequence similarity 137, member B | <i>FAM137B</i> | 346653 |
| 1564027_a_at | family with sequence similarity 139, member A | <i>FAM139A</i> | 285966 |
| 1564028_s_at | family with sequence similarity 139, member A | <i>FAM139A</i> | 285966 |
| 202972_s_at | family with sequence similarity 13, member A1 | <i>FAM13A1</i> | 10144 |
| 217047_s_at | family with sequence similarity 13, member A1 | <i>FAM13A1</i> | 10144 |
| 202973_x_at | family with sequence similarity 13, member A1 | <i>FAM13A1</i> | 10144 |
| 1558711_at | family with sequence similarity 13, member A1 opposite strand | <i>FAM13A1OS</i> | 285512 |
| 241399_at | family with sequence similarity 19 (chemokine (C-C motif)-like), member A2 | <i>FAM19A2</i> | 338811 |
| 202916_s_at | family with sequence similarity 20, member B | <i>FAM20B</i> | 9917 |
| 212370_x_at | family with sequence similarity 21, member B /// family with sequence similarit | <i>FAM21A</i> /// <i>FAM2</i> | 387680 /// 5 |
| 212929_s_at | family with sequence similarity 21, member B /// family with sequence similarit | <i>FAM21A</i> /// <i>FAM2</i> | 253725 /// 5 |
| 214946_x_at | family with sequence similarity 21, member B /// family with sequence similarit | <i>FAM21A</i> /// <i>FAM2</i> | 253725 /// 5 |
| 211068_x_at | family with sequence similarity 21, member C /// family with sequence similarit | <i>FAM21C</i> /// <i>FAM2</i> | 253725 /// 5 |

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| 222685_at | family with sequence similarity 29, member A | FAM29A | 54801 |
| 225684_at | family with sequence similarity 33, member A | FAM33A | 348235 |
| 225686_at | family with sequence similarity 33, member A | FAM33A | 348235 |
| 220547_s_at | family with sequence similarity 35, member A | FAM35A | 54537 |
| 224824_at | family with sequence similarity 36, member A | FAM36A | 116228 |
| 224820_at | family with sequence similarity 36, member A | FAM36A | 116228 |
| 236841_at | Family with sequence similarity 39, member D pseudogene | FAM39DP | 100133859 |
| 227410_at | family with sequence similarity 43, member A | FAM43A | 131583 |
| 242594_at | family with sequence similarity 44, member A | FAM44A | 259282 |
| 225351_at | family with sequence similarity 45, member A | FAM45A | 404636 /// 5 |
| 221804_s_at | family with sequence similarity 45, member B /// family with sequence similarit | FAM45A /// FAM4 | 404636 /// 5 |
| 222955_s_at | family with sequence similarity 45, member B /// family with sequence similarit | FAM45A /// FAM4 | 404636 /// 5 |
| 221766_s_at | family with sequence similarity 46, member A | FAM46A | 55603 |
| 224973_at | family with sequence similarity 46, member A | FAM46A | 55603 |
| 216717_at | Family with sequence similarity 48, member A | FAM48A | 55578 |
| 208092_s_at | family with sequence similarity 49, member A | FAM49A | 81553 |
| 217916_s_at | family with sequence similarity 49, member B | FAM49B | 51571 |
| 203262_s_at | family with sequence similarity 50, member A | FAM50A | 9130 |
| 203206_at | family with sequence similarity 53, member B | FAM53B | 9679 |
| 218023_s_at | family with sequence similarity 53, member C | FAM53C | 51307 |
| 228069_at | family with sequence similarity 54, member A | FAM54A | 113115 |
| 1553828_at | family with sequence similarity 55, member A | FAM55A | 120400 |
| 235030_at | family with sequence similarity 55, member C | FAM55C | 91775 |
| 218898_at | family with sequence similarity 57, member A | FAM57A | 79850 |
| 226466_s_at | family with sequence similarity 58, member A | FAM58A | 92002 |
| 208858_s_at | family with sequence similarity 62 (C2 domain containing), member A | FAM62A | 23344 |
| 1555830_s_at | family with sequence similarity 62 (C2 domain containing) member B | FAM62B | 57488 |
| 1558511_s_at | family with sequence similarity 62 (C2 domain containing) member B | FAM62B | 57488 |
| 224699_s_at | family with sequence similarity 62 (C2 domain containing) member B | FAM62B | 57488 |
| 226062_x_at | family with sequence similarity 63, member A | FAM63A | 55793 |
| 214691_x_at | family with sequence similarity 63, member B | FAM63B | 54629 |
| 45749_at | family with sequence similarity 65, member A | FAM65A | 79567 |
| 218029_at | family with sequence similarity 65, member A | FAM65A | 79567 |
| 216044_x_at | family with sequence similarity 69, member A | FAM69A | 388650 |
| 213689_x_at | family with sequence similarity 69, member A | FAM69A | 388650 |
| 225834_at | gastric cancer up-regulated-2 /// family with sequence similarity 72, member B | FAM72A /// FAM7 | 653573 /// 6 |
| 243042_at | family with sequence similarity 73, member A | FAM73A | 374986 |
| 226753_at | family with sequence similarity 76, member B | FAM76B | 143684 |
| 227002_at | family with sequence similarity 78, member A | FAM78A | 286336 |
| 224871_at | family with sequence similarity 79, member A | FAM79A | 127262 |
| 229764_at | family with sequence similarity 79, member B | FAM79B | 285386 |
| 235948_at | family with sequence similarity 80, member A | FAM80A | 284716 |
| 225999_at | family with sequence similarity 80, member B | FAM80B | 57494 |
| 242870_at | Family with sequence similarity 80, member B | FAM80B | 57494 |
| 235349_at | family with sequence similarity 82, member A | FAM82A | 151393 |
| 218126_at | family with sequence similarity 82, member C | FAM82C | 55177 |
| 239586_at | family with sequence similarity 83, member A | FAM83A | 84985 |
| 234335_s_at | Family with sequence similarity 84, member A | FAM84A | 151354 |
| 225864_at | family with sequence similarity 84, member B | FAM84B | 157638 |
| 1559140_at | family with sequence similarity 87, member A | FAM87A | 100134357 , |
| 1563483_at | family with sequence similarity 91, member A2 | FAM91A2 | 57234 |
| 235391_at | family with sequence similarity 92, member A1 | FAM92A1 | 137392 |
| 224779_s_at | family with sequence similarity 96, member A | FAM96A | 84191 |
| 239487_at | Family with sequence similarity 98, member A | FAM98A | 25940 |
| 241832_at | family with sequence similarity 98, member A | FAM98A | 25940 |
| 1564637_a_at | family with sequence similarity 98, member B | FAM98B | 283742 |
| 225086_at | Family with sequence similarity 98, member B | FAM98B | 283742 |
| 205189_s_at | Fanconi anemia, complementation group C | FANCC | 2176 |
| 1568889_at | Fanconi anemia, complementation group D2 | FANCD2 | 2177 |
| 223785_at | Fanconi anemia, complementation group I | FANCI | 55215 |
| 213007_at | Fanconi anemia, complementation group I | FANCI | 55215 |
| 232063_x_at | phenylalanyl-tRNA synthetase, beta subunit | FARSB | 10056 |
| 215719_x_at | Fas (TNF receptor superfamily, member 6) | FAS | 355 |

| | | | |
|--------------|---|-------------------|------------------|
| 204780_s_at | Fas (TNF receptor superfamily, member 6) | FAS | 355 |
| 210865_at | Fas ligand (TNF superfamily, member 6) | FASLG | 356 |
| 214114_x_at | Fas-activated serine/threonine kinase | FASTK | 10922 |
| 219200_at | FAST kinase domains 3 | FASTKD3 | 79072 |
| 219016_at | FAST kinase domains 5 | FASTKD5 | 60493 |
| 236029_at | FAT tumor suppressor homolog 3 (Drosophila) | FAT3 | 120114 |
| 219427_at | FAT tumor suppressor homolog 4 (Drosophila) | FAT4 | 79633 |
| 200019_s_at | Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed | FAU | 2197 |
| 211623_s_at | fibrillarin | FBL | 2091 |
| 235318_at | fibrillin 1 | FBN1 | 2200 |
| 203184_at | fibrillin 2 (congenital contractural arachnodactyly) | FBN2 | 2201 |
| 1554737_at | fibrillin 2 (congenital contractural arachnodactyly) | FBN2 | 2201 |
| 242217_s_at | fibrosin | FBRS | 64319 |
| 238771_at | Fibrosin | FBRS | 100129899 |
| 208988_at | F-box and leucine-rich repeat protein 11 | FBXL11 | 22992 |
| 208989_s_at | F-box and leucine-rich repeat protein 11 | FBXL11 | 22992 |
| 1556770_a_at | F-box and leucine-rich repeat protein 13 | FBXL13 | 222235 |
| 1553798_a_at | F-box and leucine-rich repeat protein 13 | FBXL13 | 222235 |
| 242034_at | F-box and leucine-rich repeat protein 17 | FBXL17 | 64839 |
| 233087_at | F-box and leucine-rich repeat protein 17 | FBXL17 | 64839 |
| 227203_at | F-box and leucine-rich repeat protein 17 | FBXL17 | 64839 |
| 213249_at | F-box and leucine-rich repeat protein 7 | FBXL7 | 23194 |
| 232693_s_at | zinc finger protein 395 /// F-box protein 16 | FBXO16 /// ZNF395 | 157574 /// 55893 |
| 223216_x_at | zinc finger protein 395 /// F-box protein 16 | FBXO16 /// ZNF395 | 55893 |
| 225734_at | F-box protein 22 | FBXO22 | 26263 |
| 229955_at | F-box protein 3 | FBXO3 | 26273 |
| 218539_at | F-box protein 34 | FBXO34 | 55030 |
| 221813_at | F-box protein 42 | FBXO42 | 54455 |
| 221812_at | F-box protein 42 | FBXO42 | 54455 |
| 47773_at | F-box protein 42 | FBXO42 | 54455 |
| 225100_at | F-box protein 45 | FBXO45 | 200933 |
| 225099_at | F-box protein 45 | FBXO45 | 200933 |
| 234863_x_at | F-box protein 5 | FBXO5 | 26271 |
| 218875_s_at | F-box protein 5 | FBXO5 | 26271 |
| 231769_at | F-box protein 6 | FBXO6 | 26270 |
| 243649_at | F-box protein 7 | FBXO7 | 25793 |
| 1554806_a_at | F-box protein 8 | FBXO8 | 26269 |
| 212987_at | F-box protein 9 | FBXO9 | 26268 |
| 238472_at | F-box protein 9 | FBXO9 | 26268 |
| 1559094_at | F-box protein 9 | FBXO9 | 26268 |
| 212991_at | F-box protein 9 | FBXO9 | 26268 |
| 1559096_x_at | F-box protein 9 | FBXO9 | 26268 |
| 1566509_s_at | F-box protein 9 | FBXO9 | 26268 |
| 215600_x_at | F-box and WD repeat domain containing 12 | FBXW12 | 285231 |
| 223419_at | F-box and WD repeat domain containing 9 | FBXW9 | 84261 |
| 211816_x_at | Fc fragment of IgA, receptor for | FCAR | 2204 |
| 211307_s_at | Fc fragment of IgA, receptor for | FCAR | 2204 |
| 207674_at | Fc fragment of IgA, receptor for | FCAR | 2204 |
| 211306_s_at | Fc fragment of IgA, receptor for | FCAR | 2204 |
| 211305_x_at | Fc fragment of IgA, receptor for | FCAR | 2204 |
| 211734_s_at | Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide | FCER1A | 2205 |
| 1554899_s_at | Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide | FCER1G | 2207 |
| 204232_at | Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide | FCER1G | 2207 |
| 1565673_at | Fc fragment of IgG, low affinity IIa, receptor (CD32) | FCGR2A | 2212 |
| 203561_at | Fc fragment of IgG, low affinity IIa, receptor (CD32) | FCGR2A | 2212 |
| 210889_s_at | Fc fragment of IgG, low affinity IIb, receptor (CD32) /// Fc fragment of IgG, low affinity IIc, receptor for (CD32) | FCGR2B /// FCGR2C | 2213 |
| 210992_x_at | Fc fragment of IgG, low affinity IIc, receptor for (CD32) | FCGR2C | 9103 |
| 211395_x_at | Fc fragment of IgG, low affinity IIc, receptor for (CD32) | FCGR2C | 9103 |
| 204006_s_at | Fc fragment of IgG, low affinity IIIa, receptor (CD16a) /// Fc fragment of IgG, low affinity IIIb, receptor for (CD16b) | FCGR3A /// FCGR3B | 2214 /// 2215 |
| 218831_s_at | Fc fragment of IgG, receptor, transporter, alpha | FCGRT | 2217 |
| 213669_at | FCH domain only 1 | FCHO1 | 23149 |
| 1555153_s_at | FCH domain only 2 | FCHO2 | 115548 |
| 203620_s_at | FCH and double SH3 domains 2 | FCHSD2 | 9873 |

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|--------------|---|--------------------------|--------------|
| 205237_at | ficolin (collagen/fibrinogen domain containing) 1 | <i>FCN1</i> | 2219 |
| 1563674_at | Fc receptor-like 2 | <i>FCRL2</i> | 79368 |
| 224403_at | Fc receptor-like 4 | <i>FCRL4</i> | 83417 |
| 224402_s_at | Fc receptor-like 4 | <i>FCRL4</i> | 83417 |
| 235372_at | Fc receptor-like A | <i>FCRLA</i> | 84824 |
| 238452_at | Fc receptor-like B | <i>FCRLB</i> | 127943 |
| 208647_at | farnesyl-diphosphate farnesyltransferase 1 | <i>FDFT1</i> | 2222 |
| 223175_s_at | fem-1 homolog a (C. elegans) | <i>FEM1A</i> | 55527 |
| 213341_at | fem-1 homolog c (C. elegans) | <i>FEM1C</i> | 56929 |
| 204767_s_at | flap structure-specific endonuclease 1 | <i>FEN1</i> | 2237 |
| 205418_at | feline sarcoma oncogene | <i>FES</i> | 2242 |
| 203562_at | fasciculation and elongation protein zeta 1 (zygin I) | <i>FEZ1</i> | 9638 |
| 221385_s_at | free fatty acid receptor 3 /// G protein-coupled receptor 42 /// similar to Free fa | <i>FFAR3 /// GPR42</i> | 2865 /// 286 |
| 1555407_s_at | FYVE, RhoGEF and PH domain containing 3 | <i>FGD3</i> | 89846 |
| 227811_at | FYVE, RhoGEF and PH domain containing 3 | <i>FGD3</i> | 89846 |
| 230559_x_at | FYVE, RhoGEF and PH domain containing 4 | <i>FGD4</i> | 121512 |
| 230288_at | fibroblast growth factor 14 | <i>FGF14</i> | 2259 |
| 231523_at | fibroblast growth factor 14 | <i>FGF14</i> | 2259 |
| 220394_at | fibroblast growth factor 20 | <i>FGF20</i> | 26281 |
| 205782_at | fibroblast growth factor 7 (keratinocyte growth factor) | <i>FGF7</i> | 2252 |
| 1555103_s_at | fibroblast growth factor 7 (keratinocyte growth factor) | <i>FGF7</i> | 2252 |
| 1554741_s_at | fibroblast growth factor 7 (keratinocyte growth factor) /// keratinocyte growth f | <i>FGF7 /// KGFLP1</i> | 2252 /// 38; |
| 223836_at | fibroblast growth factor binding protein 2 | <i>FGFBP2</i> | 83888 |
| 205588_s_at | FGFR1 oncogene partner | <i>FGFR1OP</i> | 11116 |
| 214124_x_at | FGFR1 oncogene partner | <i>FGFR1OP</i> | --- |
| 1568678_s_at | FGFR1 oncogene partner | <i>FGFR1OP</i> | 11116 |
| 1556283_s_at | FGFR1 oncogene partner 2 | <i>FGFR1OP2</i> | 26127 |
| 223262_s_at | FGFR1 oncogene partner 2 | <i>FGFR1OP2</i> | 26127 |
| 223263_s_at | FGFR1 oncogene partner 2 | <i>FGFR1OP2</i> | 26127 |
| 243619_at | FGFR1 oncogene partner 2 | <i>FGFR1OP2</i> | 26127 |
| 204834_at | fibrinogen-like 2 | <i>FGL2</i> | 10875 |
| 227265_at | fibrinogen-like 2 | <i>FGL2</i> | 10875 |
| 208438_s_at | Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog | <i>FGR</i> | 2268 |
| 214170_x_at | fumarate hydratase | <i>FH</i> | 2271 |
| 226769_at | fin bud initiation factor | <i>FIBIN</i> | 387758 |
| 203656_at | FIG4 homolog (S. cerevisiae) | <i>FIG4</i> | 9896 |
| 242828_at | Fidgetin | <i>FIGN</i> | 55137 |
| 1552921_a_at | fidgetin-like 1 | <i>FIGNL1</i> | 63979 |
| 1570515_a_at | filamin A interacting protein 1 | <i>FILIP1</i> | 27145 |
| 218034_at | fission 1 (mitochondrial outer membrane) homolog (S. cerevisiae) | <i>FIS1</i> | 51024 |
| 31826_at | FK506 binding protein 15, 133kDa | <i>FKBP15</i> | 23307 |
| 76897_s_at | FK506 binding protein 15, 133kDa | <i>FKBP15</i> | 23307 |
| 212663_at | FK506 binding protein 15, 133kDa | <i>FKBP15</i> | 23307 |
| 200709_at | FK506 binding protein 1A, 12kDa | <i>FKBP1A</i> | 2280 |
| 203391_at | FK506 binding protein 2, 13kDa | <i>FKBP2</i> | 2286 |
| 224840_at | FK506 binding protein 5 | <i>FKBP5</i> | 2289 |
| 224856_at | FK506 binding protein 5 | <i>FKBP5</i> | 2289 |
| 223667_at | FK506 binding protein 7 | <i>FKBP7</i> | 51661 |
| 224002_s_at | FK506 binding protein 7 | <i>FKBP7</i> | 51661 |
| 40850_at | FK506 binding protein 8, 38kDa | <i>FKBP8</i> | 23770 |
| 211454_x_at | FKSG49 | <i>FKSG49</i> | 400949 |
| 224288_x_at | FKSG49 | <i>FKSG49</i> | 400949 |
| 224284_x_at | FKSG49 | <i>FKSG49</i> | 400949 |
| 208120_x_at | FKSG49 /// hypothetical protein LOC730444 | <i>FKSG49 /// LOC730</i> | 400949 |
| 224289_s_at | FKSG83 | <i>FKSG83</i> | 83954 |
| 1552664_at | folliculin | <i>FLCN</i> | 201163 |
| 215645_at | Folliculin | <i>FLCN</i> | 201163 |
| 212025_s_at | flightless I homolog (Drosophila) | <i>FLII</i> | 2314 |
| 222065_s_at | flightless I homolog (Drosophila) | <i>FLII</i> | 2314 |
| 212024_x_at | flightless I homolog (Drosophila) | <i>FLII</i> | 2314 |
| 205510_s_at | hypothetical protein FLJ10038 | <i>FLJ10038</i> | 55056 |
| 227448_at | hypothetical protein FLJ10154 | <i>FLJ10154</i> | 55082 |
| 218920_at | hypothetical protein FLJ10404 | <i>FLJ10404</i> | 54540 |

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|--------------|---|--------------------|-----------|
| 219718_at | hypothetical protein FLJ10986 | FLJ10986 | 55277 |
| 218610_s_at | hypothetical protein FLJ11151 | FLJ11151 | 55313 |
| 222811_at | hypothetical protein FLJ11171 | FLJ11171 | 55783 |
| 218513_at | hypothetical protein FLJ11184 | FLJ11184 | 55319 |
| 217342_x_at | hypothetical protein FLJ11292 | FLJ11292 | 55338 |
| 220828_s_at | hypothetical protein FLJ11292 | FLJ11292 | 55338 |
| 243284_at | hypothetical protein FLJ11506 | FLJ11506 | 79719 |
| 202852_s_at | hypothetical protein FLJ11506 | FLJ11506 | 79719 |
| 233204_at | similar to hypothetical protein MGC40405 | FLJ11903 | 728153 |
| 220465_at | hypothetical protein FLJ12355 | FLJ12355 | 80054 |
| 233008_at | hypothetical gene supported by AK022887; AK056417 | FLJ12825 | 440101 |
| 218994_s_at | stromal antigen 3-like | FLJ13195 | 64940 |
| 244193_at | hypothetical protein FLJ13236 | FLJ13236 | 79962 |
| 242584_at | hypothetical protein FLJ13305 | FLJ13305 | 84140 |
| 1559369_at | hypothetical protein FLJ13611 | FLJ13611 | 80006 |
| 235158_at | hypothetical protein FLJ14803 | FLJ14803 | 84928 |
| 1569077_x_at | FLJ16287 protein | FLJ16287 | 162962 |
| 243077_at | hypothetical LOC641928 | FLJ16734 | 641928 |
| 218986_s_at | hypothetical protein FLJ20035 | FLJ20035 | 55601 |
| 225325_at | FLJ20160 protein | FLJ20160 | 54842 |
| 226171_at | hypothetical protein FLJ20209 | FLJ20209 | 57245 |
| 217899_at | hypothetical protein FLJ20254 | FLJ20254 | 54867 |
| 218035_s_at | RNA-binding protein | FLJ20273 | 54502 |
| 222496_s_at | RNA-binding protein | FLJ20273 | 54502 |
| 52731_at | hypothetical protein FLJ20294 | FLJ20294 | 55626 |
| 209672_s_at | hypothetical protein FLJ20323 | FLJ20323 | 54468 |
| 234216_at | hypothetical gene supported by AK025061 | FLJ21408 | 400512 |
| 65635_at | endo-beta-N-acetylglucosaminidase | FLJ21865 | 64772 |
| 229222_at | FLJ21963 protein | FLJ21963 | 79611 |
| 228728_at | hypothetical protein FLJ21986 | FLJ21986 | 79974 |
| 64900_at | hypothetical protein FLJ22167 | FLJ22167 | 79583 |
| 219182_at | hypothetical protein FLJ22167 | FLJ22167 | 79583 |
| 64438_at | hypothetical protein FLJ22222 | FLJ22222 | 79701 |
| 218454_at | hypothetical protein FLJ22662 | FLJ22662 | 79887 |
| 233604_at | hypothetical gene supported by AK026416 | FLJ22763 | 401081 |
| 217016_x_at | hypothetical LOC389177 | FLJ23172 | 100130245 |
| 231252_at | hypothetical protein FLJ23861 | FLJ23861 | 151050 |
| 1557003_at | hypothetical protein FLJ25439 | FLJ25439 | 153657 |
| 211034_s_at | AF-1 specific protein phosphatase | FLJ30092 | 283450 |
| 226809_at | similar to hypothetical protein A230046P18; cDNA sequence BC055759 /// simil | FLJ30428 /// LOC7: | 150519 |
| 1552942_at | hypothetical protein FLJ30430 | FLJ30430 | 149373 |
| 1553797_a_at | hypothetical locus FLJ30594 | FLJ30594 | 150622 |
| 1559585_at | hypothetical protein FLJ31033 | FLJ31033 | 91351 |
| 228152_s_at | hypothetical protein FLJ31033 | FLJ31033 | 91351 |
| 239432_at | hypothetical protein FLJ31306 | FLJ31306 | 379025 |
| 228149_at | hypothetical protein FLJ31818 | FLJ31818 | 154743 |
| 232803_at | hypothetical protein FLJ31958 | FLJ31958 | 143153 |
| 223443_s_at | hypothetical protein FLJ32065 | FLJ32065 | 201283 |
| 235292_at | hypothetical protein LOC643977 | FLJ32255 | 643977 |
| 1554067_at | hypothetical protein FLJ32549 | FLJ32549 | 144577 |
| 213737_x_at | golgi autoantigen, golgin subfamily a, 8G /// golgi autoantigen, golgin subfamily | FLJ32679 /// GOLG | 283796 |
| 1553472_at | hypothetical protein FLJ32955 | FLJ32955 | 150596 |
| 242295_at | hypothetical protein FLJ32955 | FLJ32955 | 150596 |
| 1557212_at | hypothetical gene supported by AK057627; BC031275; BC045736 | FLJ33065 | 440952 |
| 1563969_at | FLJ33360 protein | FLJ33360 | 401172 |
| 1556722_a_at | hypothetical protein FLJ33706 | FLJ33706 | 284805 |
| 1564207_at | hypothetical protein FLJ35390 | FLJ35390 | 255031 |
| 1562484_at | hypothetical protein FLJ35848 | FLJ35848 | 284071 |
| 235235_s_at | FLJ36874 protein | FLJ36874 | 219988 |
| 235234_at | FLJ36874 protein | FLJ36874 | 219988 |
| 225468_at | FLJ36874 protein | FLJ36874 | 219988 |
| 225466_at | FLJ36874 protein | FLJ36874 | 219988 |
| 1560654_at | hypothetical protein FLJ37201 | FLJ37201 | 283011 |

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|--------------|---|------------------------|--------------|
| 1553362_at | hypothetical protein FLJ37357 | FLJ37357 | 1768 /// 200 |
| 244065_at | similar to Contactin-associated protein-like 3 precursor (Cell recognition molecu | FLJ37512 | 643827 |
| 1558579_at | hypothetical LOC642691 | FLJ37786 | 642691 |
| 227298_at | hypothetical gene supported by AK095117 | FLJ37798 | 401264 |
| 1559964_at | FLJ38717 protein | FLJ38717 | 401261 |
| 230999_at | Hypothetical gene supported by AK096370 | FLJ39051 | 399972 |
| 1561371_at | hypothetical gene supported by AK096399 | FLJ39080 | 441355 |
| 242546_at | hypothetical LOC642477 | FLJ39632 | 642477 |
| 231882_at | hypothetical LOC642477 | FLJ39632 | 100131139 , |
| 1553145_at | hypothetical FLJ39653 | FLJ39653 | 202020 |
| 243565_at | hypothetical protein FLJ39660 | FLJ39660 | 284992 |
| 1556457_s_at | hypothetical FLJ39739 | FLJ39739 | 388685 |
| 213212_x_at | hypothetical protein LOC161527 /// golgi autoantigen, golgin subfamily a-like p | FLJ40113 /// LOC161527 | 374650 /// 4 |
| 226583_at | FLJ40142 protein | FLJ40142 | 400073 |
| 1561846_s_at | hypothetical protein FLJ40176 | FLJ40176 | 121951 |
| 1556183_at | similar to protein immuno-reactive with anti-PTH polyclonal antibodies | FLJ40330 | 645784 |
| 244395_at | hypothetical gene supported by AK123449; BX641014 | FLJ41455 | 441441 |
| 1556695_a_at | Hypothetical gene supported by AK124699 | FLJ42709 | 441094 |
| 237591_at | FLJ42957 protein | FLJ42957 | 400077 |
| 1563369_at | FLJ42957 protein | FLJ42957 | 400077 |
| 238986_at | hypothetical protein FLJ43663 | FLJ43663 | 378805 |
| 240028_at | FLJ44048 protein | FLJ44048 | 401024 |
| 215057_at | Hypothetical protein FLJ44451 | FLJ44451 | --- |
| 1569191_at | similar to zinc finger protein 91 | FLJ44894 | 664701 |
| 243709_at | hypothetical protein FLJ90709 | FLJ90709 | 153129 |
| 235241_at | hypothetical protein FLJ90709 | FLJ90709 | 153129 |
| 200859_x_at | filamin A, alpha (actin binding protein 280) | FLNA | 2316 |
| 213746_s_at | filamin A, alpha (actin binding protein 280) | FLNA | 2316 |
| 210142_x_at | flotillin 1 | FLOT1 | 10211 |
| 208748_s_at | flotillin 1 | FLOT1 | 10211 |
| 208749_x_at | flotillin 1 | FLOT1 | 10211 |
| 211299_s_at | flotillin 2 | FLOT2 | 2319 |
| 201350_at | flotillin 2 | FLOT2 | 2319 |
| 219250_s_at | fibronectin leucine rich transmembrane protein 3 | FLRT3 | 23767 |
| 222853_at | fibronectin leucine rich transmembrane protein 3 | FLRT3 | 23767 |
| 204406_at | fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular perm | FLT1 | 2321 |
| 230946_at | Formin 2 | FMN2 | 56776 |
| 223618_at | formin 2 | FMN2 | 56776 |
| 235881_at | Formin-like 2 | FMNL2 | 114793 |
| 238823_at | formin-like 3 | FMNL3 | 91010 |
| 228268_at | flavin containing monooxygenase 2 (non-functional) | FMO2 | 2327 |
| 1569688_at | flavin containing monooxygenase 5 | FMO5 | 2330 |
| 205776_at | flavin containing monooxygenase 5 | FMO5 | 2330 |
| 202709_at | fibromodulin | FMOD | 2331 |
| 215245_x_at | fragile X mental retardation 1 | FMR1 | 2332 |
| 203689_s_at | fragile X mental retardation 1 | FMR1 | 2332 |
| 214702_at | fibronectin 1 | FN1 | 2335 |
| 1558199_at | fibronectin 1 | FN1 | 2335 |
| 215017_s_at | formin binding protein 1-like | FNBP1L | 54874 |
| 202304_at | fibronectin type III domain containing 3A | FNDC3A | 22862 |
| 215910_s_at | fibronectin type III domain containing 3A | FNDC3A | 22862 |
| 241611_s_at | fibronectin type III domain containing 3A | FNDC3A | 22862 |
| 225032_at | fibronectin type III domain containing 3B | FNDC3B | 64778 |
| 222693_at | fibronectin type III domain containing 3B | FNDC3B | 64778 |
| 218618_s_at | fibronectin type III domain containing 3B | FNDC3B | 64778 |
| 222692_s_at | fibronectin type III domain containing 3B | FNDC3B | 64778 |
| 229865_at | fibronectin type III domain containing 3B | FNDC3B | 64778 |
| 1569490_at | fibronectin type III domain containing 3B | FNDC3B | 64778 |
| 242029_at | Fibronectin type III domain containing 3B | FNDC3B | 64778 |
| 228768_at | folliculin interacting protein 1 | FNIP1 | 96459 |
| 228250_at | folliculin interacting protein 1 | FNIP1 | 96459 |
| 223997_at | folliculin interacting protein 1 | FNIP1 | 96459 |
| 1559060_a_at | Folliculin interacting protein 1 | FNIP1 | 96459 |

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|-------------|---|------------------------|--------|
| 200090_at | farnesyltransferase, CAAX box, alpha | <i>FNTA</i> | 2339 |
| 209471_s_at | farnesyltransferase, CAAX box, alpha | <i>FNTA</i> | 2339 |
| 217487_x_at | folate hydrolase (prostate-specific membrane antigen) 1 | <i>FOLH1</i> | 2346 |
| 209189_at | v-fos FBJ murine osteosarcoma viral oncogene homolog | <i>FOS</i> | 2353 |
| 218881_s_at | FOS-like antigen 2 | <i>FOSL2</i> | 2355 |
| 205409_at | FOS-like antigen 2 | <i>FOSL2</i> | 2355 |
| 225262_at | FOS-like antigen 2 | <i>FOSL2</i> | 2355 |
| 218880_at | FOS-like antigen 2 | <i>FOSL2</i> | 2355 |
| 206377_at | forkhead box F2 | <i>FOXF2</i> | 2295 |
| 226715_at | forkhead box K1 | <i>FOXK1</i> | 221937 |
| 226224_at | forkhead box K2 | <i>FOXK2</i> | 3607 |
| 226711_at | forkhead box N2 | <i>FOXN2</i> | 3344 |
| 222494_at | forkhead box N3 | <i>FOXN3</i> | 1112 |
| 218031_s_at | forkhead box N3 | <i>FOXN3</i> | 1112 |
| 205022_s_at | forkhead box N3 | <i>FOXN3</i> | 1112 |
| 205021_s_at | forkhead box N3 | <i>FOXN3</i> | 1112 |
| 224891_at | forkhead box O3 | <i>FOXO3</i> | 2309 |
| 204132_s_at | forkhead box O3 | <i>FOXO3</i> | 2309 |
| 204131_s_at | forkhead box O3 | <i>FOXO3</i> | 2309 |
| 224889_at | forkhead box O3 | <i>FOXO3</i> | 2309 |
| 210655_s_at | forkhead box O3 | <i>FOXO3</i> | 2309 |
| 217399_s_at | forkhead box O3 | <i>FOXO3</i> | 2309 |
| 1558996_at | forkhead box P1 | <i>FOXP1</i> | 27086 |
| 224837_at | forkhead box P1 | <i>FOXP1</i> | 27086 |
| 235444_at | forkhead box P1 | <i>FOXP1</i> | 27086 |
| 224838_at | forkhead box P1 | <i>FOXP1</i> | 27086 |
| 1555352_at | forkhead box P2 | <i>FOXP2</i> | 93986 |
| 205140_at | fucose-1-phosphate guanylyltransferase | <i>FPGT</i> | 8790 |
| 205119_s_at | formyl peptide receptor 1 | <i>FPR1</i> | 2357 |
| 210772_at | formyl peptide receptor-like 1 | <i>FPRL1</i> | 2358 |
| 210773_s_at | formyl peptide receptor-like 1 | <i>FPRL1</i> | 2358 |
| 219889_at | frequently rearranged in advanced T-cell lymphomas | <i>FRAT1</i> | 10023 |
| 209864_at | frequently rearranged in advanced T-cell lymphomas 2 | <i>FRAT2</i> | 23401 |
| 236031_x_at | FRAS1 related extracellular matrix 1 | <i>FREM1</i> | --- |
| 230645_at | FERM domain containing 3 | <i>FRMD3</i> | 257019 |
| 229893_at | FERM domain containing 3 | <i>FRMD3</i> | 257019 |
| 225167_at | FERM domain containing 4A | <i>FRMD4A</i> | 55691 |
| 213056_at | FERM domain containing 4B | <i>FRMD4B</i> | 23150 |
| 239290_at | FERM and PDZ domain containing 4 | <i>FRMPD4</i> | 9758 |
| 1562650_at | FRY-like | <i>FRYL</i> | 285527 |
| 212548_s_at | FRY-like | <i>FRYL</i> | 285527 |
| 242807_at | fibronectin type III and SPRY domain containing 1-like | <i>FSD1L</i> | 83856 |
| 230904_at | fibronectin type III and SPRY domain containing 1-like | <i>FSD1L</i> | 83856 |
| 226847_at | folliculin | <i>FST</i> | 10468 |
| 214211_at | ferritin, heavy polypeptide 1 /// ferritin, heavy polypeptide-like 16 | <i>FTH1 /// FTHL16</i> | 2495 |
| 218356_at | FtsJ homolog 2 (E. coli) | <i>FTSJ2</i> | 29960 |
| 218103_at | FtsJ homolog 3 (E. coli) | <i>FTSJ3</i> | 117246 |
| 212847_at | Far upstream element (FUSE) binding protein 1 | <i>FUBP1</i> | 8880 |
| 214093_s_at | far upstream element (FUSE) binding protein 1 | <i>FUBP1</i> | 8880 |
| 202838_at | fucosidase, alpha-L- 1, tissue | <i>FUCA1</i> | 2517 |
| 235346_at | FUN14 domain containing 1 | <i>FUNDC1</i> | 139341 |
| 230922_x_at | FUN14 domain containing 2 | <i>FUNDC2</i> | --- |
| 238551_at | fucosyltransferase 11 (alpha (1,3) fucosyltransferase) | <i>FUT11</i> | 170384 |
| 210608_s_at | fucosyltransferase 2 (secretor status included) | <i>FUT2</i> | 2524 |
| 209893_s_at | fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) | <i>FUT4</i> | 2526 |
| 209892_at | fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) | <i>FUT4</i> | 2526 |
| 214046_at | fucosyltransferase 9 (alpha (1,3) fucosyltransferase) | <i>FUT9</i> | 10690 |
| 201637_s_at | fragile X mental retardation, autosomal homolog 1 | <i>FXR1</i> | 8087 |
| 203172_at | fragile X mental retardation, autosomal homolog 2 | <i>FXR2</i> | 9513 |
| 218084_x_at | FXRD domain containing ion transport regulator 5 | <i>FXRD5</i> | 53827 |
| 211794_at | FYN binding protein (FYB-120/130) | <i>FYB</i> | 2533 |
| 205285_s_at | FYN binding protein (FYB-120/130) | <i>FYB</i> | 2533 |
| 227266_s_at | FYN binding protein (FYB-120/130) | <i>FYB</i> | 2533 |

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|--------------|--|---|--------|
| 211795_s_at | FYN binding protein (FYB-120/130) | <i>FYB</i> | 2533 |
| 216033_s_at | FYN oncogene related to SRC, FGR, YES | <i>FYN</i> | 2534 |
| 210105_s_at | FYN oncogene related to SRC, FGR, YES | <i>FYN</i> | 2534 |
| 212486_s_at | FYN oncogene related to SRC, FGR, YES | <i>FYN</i> | 2534 |
| 203987_at | frizzled homolog 6 (Drosophila) | <i>FZD6</i> | 8323 |
| 211865_s_at | fizzy/cell division cycle 20 related 1 (Drosophila) | <i>FZR1</i> | 51343 |
| 209416_s_at | fizzy/cell division cycle 20 related 1 (Drosophila) | <i>FZR1</i> | 51343 |
| 213524_s_at | G0/G1switch 2 | <i>G0S2</i> | 50486 |
| 1553024_at | putative protein LG30 | <i>G30</i> | 282706 |
| 222187_x_at | GTPase activating protein (SH3 domain) binding protein 1 | <i>G3BP1</i> | 10146 |
| 201503_at | GTPase activating protein (SH3 domain) binding protein 1 | <i>G3BP1</i> | 10146 |
| 244396_at | GTPase activating protein (SH3 domain) binding protein 1 | <i>G3BP1</i> | 10146 |
| 208841_s_at | GTPase activating protein (SH3 domain) binding protein 2 | <i>G3BP2</i> | 9908 |
| 206383_s_at | GTPase activating protein (SH3 domain) binding protein 2 | <i>G3BP2</i> | 9908 |
| 208840_s_at | GTPase activating protein (SH3 domain) binding protein 2 | <i>G3BP2</i> | 9908 |
| 202275_at | glucose-6-phosphate dehydrogenase | <i>G6PD</i> | 2539 |
| 202812_at | glucosidase, alpha; acid (Pompe disease, glycogen storage disease type II) | <i>GAA</i> | 2548 |
| 225998_at | GRB2-associated binding protein 1 | <i>GAB1</i> | 2549 |
| 228410_at | GRB2-associated binding protein 3 | <i>GAB3</i> | 139716 |
| 200645_at | GABA(A) receptor-associated protein | <i>GABARAP</i> | 11337 |
| 208869_s_at | GABA(A) receptor-associated protein like 1 | <i>GABARAPL1</i> | 23710 |
| 208868_s_at | GABA(A) receptor-associated protein like 1 | <i>GABARAPL1</i> | 23710 |
| 211458_s_at | GABA(A) receptor-associated protein like 1 /// GABA(A) receptors associated pr | <i>GABARAPL1</i> /// <i>GA</i> 23710 /// 2: | |
| 209046_s_at | GABA(A) receptor-associated protein-like 2 | <i>GABARAPL2</i> | 11345 |
| 1561916_at | GA binding protein transcription factor, alpha subunit pseudogene | <i>GABPAP</i> | --- |
| 227406_at | GA binding protein transcription factor, beta subunit 2 | <i>GABPB2</i> | 2553 |
| 207014_at | gamma-aminobutyric acid (GABA) A receptor, alpha 2 | <i>GABRA2</i> | 2555 |
| 1554308_s_at | gamma-aminobutyric acid (GABA) A receptor, alpha 2 | <i>GABRA2</i> | 2555 |
| 207010_at | gamma-aminobutyric acid (GABA) A receptor, beta 1 | <i>GABRB1</i> | 2560 |
| 242344_at | gamma-aminobutyric acid (GABA) A receptor, beta 2 | <i>GABRB2</i> | 2561 |
| 1557122_s_at | gamma-aminobutyric acid (GABA) A receptor, beta 2 | <i>GABRB2</i> | 2561 |
| 1561316_at | Gamma-aminobutyric acid (GABA) A receptor, beta 3 | <i>GABRB3</i> | --- |
| 229724_at | gamma-aminobutyric acid (GABA) A receptor, beta 3 | <i>GABRB3</i> | 2562 |
| 1552943_at | gamma-aminobutyric acid (GABA) A receptor, gamma 1 | <i>GABRG1</i> | 2565 |
| 1568612_at | gamma-aminobutyric acid (GABA) A receptor, gamma 2 | <i>GABRG2</i> | 2566 |
| 209305_s_at | growth arrest and DNA-damage-inducible, beta | <i>GADD45B</i> | 4616 |
| 207574_s_at | growth arrest and DNA-damage-inducible, beta | <i>GADD45B</i> | 4616 |
| 209304_x_at | growth arrest and DNA-damage-inducible, beta | <i>GADD45B</i> | 4616 |
| 213560_at | Growth arrest and DNA-damage-inducible, beta | <i>GADD45B</i> | 4616 |
| 204121_at | growth arrest and DNA-damage-inducible, gamma | <i>GADD45G</i> | 10912 |
| 1563533_at | glutamate decarboxylase-like 1 | <i>GADL1</i> | 339896 |
| 40225_at | cyclin G associated kinase | <i>GAK</i> | 2580 |
| 204417_at | galactosylceramidase | <i>GALC</i> | 2581 |
| 211810_s_at | galactosylceramidase | <i>GALC</i> | 2581 |
| 202528_at | UDP-galactose-4-epimerase | <i>GALE</i> | 2582 |
| 216411_s_at | galactokinase 2 | <i>GALK2</i> | 2585 |
| 235256_s_at | galactose mutarotase (aldose 1-epimerase) | <i>GALM</i> | 130589 |
| 203066_at | B cell RAG associated protein | <i>GALNAC4S-6ST</i> | 51363 |
| 239077_at | chondroitin sulfate GalNAcT-2 | <i>GALNACT-2</i> | 55454 |
| 218871_x_at | chondroitin sulfate GalNAcT-2 | <i>GALNACT-2</i> | 55454 |
| 222235_s_at | chondroitin sulfate GalNAcT-2 | <i>GALNACT-2</i> | 55454 |
| 212256_at | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransf | <i>GALNT10</i> | 55568 |
| 219013_at | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransf | <i>GALNT11</i> | 63917 |
| 234472_at | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransf | <i>GALNT13</i> | 114805 |
| 217788_s_at | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransf | <i>GALNT2</i> | 2590 |
| 231832_at | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransf | <i>GALNT4</i> | 8693 |
| 237183_at | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransf | <i>GALNT5</i> | 11227 |
| 219956_at | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransf | <i>GALNT6</i> | 11226 |
| 228501_at | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransf | <i>GALNTL2</i> | 117248 |
| 220124_at | giant axonal neuropathy (gigaxonin) | <i>GAN</i> | 8139 |
| 212581_x_at | glyceraldehyde-3-phosphate dehydrogenase | <i>GAPDH</i> | 2597 |
| 217398_x_at | glyceraldehyde-3-phosphate dehydrogenase | <i>GAPDH</i> | 2597 |
| 213453_x_at | glyceraldehyde-3-phosphate dehydrogenase | <i>GAPDH</i> | 2597 |

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|--------------|--|---|---|
| 212804_s_at | GTPase activating protein and VPS9 domains 1 | <i>GAPVD1</i> | 26130 |
| 212802_s_at | GTPase activating protein and VPS9 domains 1 | <i>GAPVD1</i> | 26130 |
| 1566272_at | GTPase activating Rap/RanGAP domain-like 1 | <i>GARNL1</i> | 253959 |
| 234923_at | GTPase activating Rap/RanGAP domain-like 1 | <i>GARNL1</i> | 253959 |
| 215162_at | GTPase activating Rap/RanGAP domain-like 1 | <i>GARNL1</i> | 253959 |
| 208693_s_at | glycyl-tRNA synthetase | <i>GARS</i> | 2617 |
| 230097_at | Phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase | <i>GART</i> | 2618 |
| 1598_g_at | growth arrest-specific 6 | <i>GAS6</i> | 100133684 |
| 207704_s_at | growth arrest-specific 7 | <i>GAS7</i> | 8522 |
| 211067_s_at | growth arrest-specific 7 | <i>GAS7</i> | 8522 |
| 208138_at | gastrin | <i>GAST</i> | 2520 |
| 207954_at | GATA binding protein 2 | <i>GATA2</i> | 2624 |
| 209710_at | GATA binding protein 2 | <i>GATA2</i> | 2624 |
| 209604_s_at | GATA binding protein 3 | <i>GATA3</i> | 2625 |
| 214718_at | GATA zinc finger domain containing 1 | <i>GATAD1</i> | 57798 |
| 216733_s_at | glycine amidinotransferase (L-arginine:glycine amidinotransferase) | <i>GATM</i> | 2628 |
| 1553971_a_at | opposite strand transcription unit to STAG3 | <i>GATS</i> | 352954 |
| 227321_at | opposite strand transcription unit to STAG3 | <i>GATS</i> | 352954 |
| 210589_s_at | glucosidase, beta; acid (includes glucosylceramidase) /// glucosidase, beta; acid, GBA /// GBAP | <i>GBA</i> /// <i>GBAP</i> | 2629 /// 2630 |
| 203282_at | glucan (1,4-alpha-), branching enzyme 1 (glycogen branching enzyme, Andersen) | <i>GBE1</i> | 2632 |
| 231577_s_at | guanylate binding protein 1, interferon-inducible, 67kDa | <i>GBP1</i> | 2633 |
| 202270_at | guanylate binding protein 1, interferon-inducible, 67kDa | <i>GBP1</i> | 2633 |
| 202269_x_at | guanylate binding protein 1, interferon-inducible, 67kDa | <i>GBP1</i> | 2633 |
| 231578_at | guanylate binding protein 1, interferon-inducible, 67kDa | <i>GBP1</i> | 2633 |
| 235175_at | guanylate binding protein 4 | <i>GBP4</i> | 115361 |
| 229625_at | guanylate binding protein 5 | <i>GBP5</i> | 115362 |
| 238581_at | guanylate binding protein 5 | <i>GBP5</i> | 115362 |
| 203765_at | grancalcin, EF-hand calcium binding protein | <i>GCA</i> | 25801 |
| 218912_at | GRIP and coiled-coil domain containing 1 | <i>GCC1</i> | 79571 |
| 208369_s_at | glutaryl-Coenzyme A dehydrogenase | <i>GCDH</i> | 2639 |
| 204224_s_at | GTP cyclohydrolase 1 (dopa-responsive dystonia) | <i>GCH1</i> | 2643 |
| 204867_at | GTP cyclohydrolase I feedback regulator | <i>GCHFR</i> | 2644 |
| 202922_at | glutamate-cysteine ligase, catalytic subunit | <i>GCLC</i> | 2729 |
| 234986_at | glutamate-cysteine ligase, modifier subunit | <i>GCLM</i> | --- |
| 203925_at | glutamate-cysteine ligase, modifier subunit | <i>GCLM</i> | 2730 |
| 236140_at | glutamate-cysteine ligase, modifier subunit | <i>GCLM</i> | 2730 |
| 239761_at | glucosaminyl (N-acetyl) transferase 1, core 2 (beta-1,6-N-acetylglucosaminyltransferase 1) | <i>GCNT1</i> | 2650 |
| 212244_at | glutamate receptor, ionotropic, N-methyl D-aspartate-like 1A /// GRINL1A cont. Gcom1 /// GRINL1, 145781 /// GRINL1A cont. Gcom1 /// GRINL1, 145781 /// GRINL1A cont. Gcom1 /// GRINL1, 145781 /// GRINL1A cont. Gcom1 /// GRINL1, 145781 | <i>Gcom1</i> /// <i>GRINL1</i> , 145781 /// <i>GRINL1A</i> cont. <i>Gcom1</i> /// <i>GRINL1</i> , 145781 /// <i>GRINL1A</i> cont. <i>Gcom1</i> /// <i>GRINL1</i> , 145781 | 145781 /// 145781 /// 145781 /// 145781 |
| 212243_at | glutamate receptor, ionotropic, N-methyl D-aspartate-like 1A /// GRINL1A cont. Gcom1 /// GRINL1, 145781 /// GRINL1A cont. Gcom1 /// GRINL1, 145781 /// GRINL1A cont. Gcom1 /// GRINL1, 145781 | <i>Gcom1</i> /// <i>GRINL1</i> , 145781 /// <i>GRINL1A</i> cont. <i>Gcom1</i> /// <i>GRINL1</i> , 145781 | 145781 /// 145781 /// 145781 /// 145781 |
| 213129_s_at | glycine cleavage system protein H (aminomethyl carrier) /// similar to Glycine cleavage system protein H (aminomethyl carrier) /// LOC65404 | <i>GCSH</i> /// <i>LOC65404</i> | 2653 /// 730 |
| 224209_s_at | guanine deaminase | <i>GDA</i> | 9615 |
| 1569555_at | guanine deaminase | <i>GDA</i> | 9615 |
| 219473_at | ganglioside induced differentiation associated protein 2 | <i>GDAP2</i> | 54834 |
| 1554591_at | Gene differentially expressed in prostate | <i>GDEP</i> | 118425 |
| 231096_at | gene differentially expressed in prostate | <i>GDEP</i> | 118425 |
| 201864_at | GDP dissociation inhibitor 1 | <i>GDI1</i> | 2664 |
| 200008_s_at | GDP dissociation inhibitor 2 | <i>GDI2</i> | 2665 |
| 1555606_a_at | glycerophosphodiester phosphodiesterase domain containing 1 | <i>GDPD1</i> | 284161 |
| 225161_at | G elongation factor, mitochondrial 1 | <i>GFM1</i> | 85476 |
| 225153_at | G elongation factor, mitochondrial 1 | <i>GFM1</i> | 85476 |
| 231918_s_at | G elongation factor, mitochondrial 2 | <i>GFM2</i> | 84340 |
| 231917_at | G elongation factor, mitochondrial 2 | <i>GFM2</i> | 84340 |
| 225392_at | G elongation factor, mitochondrial 2 | <i>GFM2</i> | 84340 |
| 219821_s_at | glucose-fructose oxidoreductase domain containing 1 | <i>GFOD1</i> | 54438 |
| 1554670_at | golgi associated, gamma adaptin ear containing, ARF binding protein 1 | <i>GGA1</i> | 26088 |
| 218114_at | golgi associated, gamma adaptin ear containing, ARF binding protein 1 | <i>GGA1</i> | 26088 |
| 213772_s_at | golgi associated, gamma adaptin ear containing, ARF binding protein 2 | <i>GGA2</i> | 23062 |
| 208915_s_at | golgi associated, gamma adaptin ear containing, ARF binding protein 2 | <i>GGA2</i> | 23062 |
| 214005_at | gamma-glutamyl carboxylase | <i>GGCX</i> | 2677 |
| 233937_at | gametogenetin binding protein 2 | <i>GGNBP2</i> | 79893 |
| 211417_x_at | gamma-glutamyltransferase 1 | <i>GGT1</i> | 2678 |
| 208284_x_at | gamma-glutamyltransferase 1 | <i>GGT1</i> | 2678 |
| 233837_at | Gamma-glutamyltransferase 1 | <i>GGT1</i> | 2678 |

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|--------------|--|------------------------------|--------------|
| 215603_x_at | gamma-glutamyltransferase 1 /// gamma-glutamyltransferase 3 /// gamma-glu | <i>GGT1 /// GGT2</i> | 2678 /// 267 |
| 228376_at | glycoprotein, alpha-galactosyltransferase 1 /// similar to glycoprotein galactosyl | <i>GGTA1 /// LOC731.2681</i> | |
| 209249_s_at | growth hormone inducible transmembrane protein | <i>GHITM</i> | 27069 |
| 1552316_a_at | GTPase, IMAP family member 1 | <i>GIMAP1</i> | 170575 |
| 1552318_at | GTPase, IMAP family member 1 | <i>GIMAP1</i> | 170575 |
| 1552315_at | GTPase, IMAP family member 1 | <i>GIMAP1</i> | 170575 |
| 232024_at | GTPase, IMAP family member 2 | <i>GIMAP2</i> | 26157 |
| 219243_at | GTPase, IMAP family member 4 | <i>GIMAP4</i> | 55303 |
| 64064_at | GTPase, IMAP family member 5 | <i>GIMAP5</i> | 55340 |
| 219777_at | GTPase, IMAP family member 6 | <i>GIMAP6</i> | 474344 |
| 229367_s_at | GTPase, IMAP family member 6 | <i>GIMAP6</i> | 474344 |
| 228071_at | GTPase, IMAP family member 7 | <i>GIMAP7</i> | 168537 |
| 235306_at | GTPase, IMAP family member 8 | <i>GIMAP8</i> | 155038 |
| 206102_at | GIN5 complex subunit 1 (Psf1 homolog) | <i>GIN51</i> | 9837 |
| 211767_at | GIN5 complex subunit 4 (Sid5 homolog) | <i>GIN54</i> | 84296 |
| 218030_at | G protein-coupled receptor kinase interactor 1 | <i>GIT1</i> | 28964 |
| 225558_at | G protein-coupled receptor kinase interactor 2 | <i>GIT2</i> | 9815 |
| 209876_at | G protein-coupled receptor kinase interactor 2 | <i>GIT2</i> | 9815 |
| 218317_x_at | GIY-YIG domain containing 2 /// GIY-YIG domain containing 1 | <i>GIYD1 /// GIYD2</i> | 548593 /// 5 |
| 233334_x_at | sulfotransferase family, cytosolic, 1A, phenol-preferring, member 3 /// GIY-YIG | <i>GIYD1 /// GIYD2</i> | 445329 /// 5 |
| 231771_at | gap junction protein, beta 6 | <i>GJB6</i> | 10804 |
| 207387_s_at | glycerol kinase | <i>GK</i> | 2710 |
| 214681_at | glycerol kinase | <i>GK</i> | 2710 |
| 215977_x_at | glycerol kinase | <i>GK</i> | 2710 |
| 217167_x_at | glycerol kinase | <i>GK</i> | 2710 |
| 216316_x_at | glycerol kinase /// glycerol kinase 3 pseudogene | <i>GK /// GK3P</i> | 2710 /// 271 |
| 215966_x_at | glycerol kinase 3 pseudogene | <i>GK3P</i> | 2713 |
| 238121_at | glycerol kinase 5 (putative) | <i>GK5</i> | 256356 |
| 234192_s_at | G kinase anchoring protein 1 | <i>GKAP1</i> | 80318 |
| 214430_at | galactosidase, alpha | <i>GLA</i> | 2717 |
| 206540_at | galactosidase, beta 1-like | <i>GLB1L</i> | 79411 |
| 225700_at | glucocorticoid induced transcript 1 | <i>GLCCI1</i> | 113263 |
| 227525_at | glucocorticoid induced transcript 1 | <i>GLCCI1</i> | 113263 |
| 225706_at | glucocorticoid induced transcript 1 | <i>GLCCI1</i> | 113263 |
| 1560316_s_at | glucocorticoid induced transcript 1 | <i>GLCCI1</i> | 113263 |
| 212045_at | golgi apparatus protein 1 | <i>GLG1</i> | 2734 |
| 214730_s_at | golgi apparatus protein 1 | <i>GLG1</i> | 2734 |
| 207966_s_at | golgi apparatus protein 1 | <i>GLG1</i> | 2734 |
| 227376_at | GLI-Kruppel family member GLI3 (Greig cephalopolysyndactyly syndrome) | <i>GLI3</i> | 2737 |
| 226136_at | GLI pathogenesis-related 1 (glioma) | <i>GLIPR1</i> | 11010 |
| 214085_x_at | GLI pathogenesis-related 1 (glioma) | <i>GLIPR1</i> | 11010 |
| 226142_at | GLI pathogenesis-related 1 (glioma) | <i>GLIPR1</i> | 11010 |
| 204222_s_at | GLI pathogenesis-related 1 (glioma) | <i>GLIPR1</i> | 11010 |
| 204221_x_at | GLI pathogenesis-related 1 (glioma) | <i>GLIPR1</i> | 11010 |
| 238296_at | GLI pathogenesis-related 1 like 1 | <i>GLIPR1L1</i> | 256710 |
| 236924_at | glomulin, FKBP associated protein | <i>GLMN</i> | 11146 |
| 237388_at | glomulin, FKBP associated protein | <i>GLMN</i> | 11146 |
| 244680_at | glycine receptor, beta | <i>GLRB</i> | 2743 |
| 205280_at | glycine receptor, beta | <i>GLRB</i> | 2743 |
| 205279_s_at | glycine receptor, beta | <i>GLRB</i> | 2743 |
| 219933_at | glutaredoxin 2 | <i>GLRX2</i> | 51022 |
| 214205_x_at | glutaredoxin 3 | <i>GLRX3</i> | 10539 |
| 221932_s_at | glutaredoxin 5 | <i>GLRX5</i> | 51218 |
| 221510_s_at | glutaminase | <i>GLS</i> | 2744 |
| 223079_s_at | glutaminase | <i>GLS</i> | 2744 |
| 203159_at | glutaminase | <i>GLS</i> | 2744 |
| 229770_at | glycosyltransferase 1 domain containing 1 | <i>GLT1D1</i> | 144423 |
| 218473_s_at | glycosyltransferase 25 domain containing 1 | <i>GLT25D1</i> | 79709 |
| 209883_at | glycosyltransferase 25 domain containing 2 | <i>GLT25D2</i> | 23127 |
| 232021_at | glycosyltransferase 8 domain containing 3 | <i>GLT8D3</i> | 283464 |
| 226868_at | glycosyltransferase 8 domain containing 3 | <i>GLT8D3</i> | 283464 |
| 226177_at | glycolipid transfer protein | <i>GLTP</i> | 51228 |
| 200946_x_at | glutamate dehydrogenase 1 | <i>GLUD1</i> | 2746 |

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|--------------|--|-------------------------------|--------------|
| 215794_x_at | glutamate dehydrogenase 2 | <i>GLUD2</i> | 2747 |
| 215001_s_at | glutamate-ammonia ligase (glutamine synthetase) | <i>GLUL</i> | 2752 |
| 217202_s_at | glutamate-ammonia ligase (glutamine synthetase) | <i>GLUL</i> | 2752 |
| 200648_s_at | glutamate-ammonia ligase (glutamine synthetase) | <i>GLUL</i> | 2752 |
| 231683_at | glycine-N-acyltransferase | <i>GLYAT</i> | 10249 |
| 238518_x_at | glycerate kinase | <i>GLYCK</i> | 132158 |
| 222251_s_at | glucocorticoid modulatory element binding protein 2 | <i>GMEB2</i> | 26205 |
| 218350_s_at | geminin, DNA replication inhibitor | <i>GMNN</i> | 51053 |
| 219920_s_at | GDP-mannose pyrophosphorylase B | <i>GMPPB</i> | 29925 /// 38 |
| 217990_at | guanosine monophosphate reductase 2 | <i>GMPR2</i> | 51292 |
| 206917_at | guanine nucleotide binding protein (G protein), alpha 13 | <i>GNA13</i> | 10672 |
| 224761_at | guanine nucleotide binding protein (G protein), alpha 13 | <i>GNA13</i> | 10672 |
| 205349_at | guanine nucleotide binding protein (G protein), alpha 15 (Gq class) | <i>GNA15</i> | 2769 |
| 227692_at | guanine nucleotide binding protein (G protein), alpha inhibiting activity polypep | <i>GNAI1</i> | 2770 |
| 209576_at | guanine nucleotide binding protein (G protein), alpha inhibiting activity polypep | <i>GNAI1</i> | 2770 |
| 201179_s_at | guanine nucleotide binding protein (G protein), alpha inhibiting activity polypep | <i>GNAI3</i> | 2773 |
| 206355_at | guanine nucleotide binding protein (G protein), alpha activating activity polypep | <i>GNAL</i> | 2774 |
| 224863_at | Guanine nucleotide binding protein (G protein), q polypeptide | <i>GNAQ</i> | 2776 |
| 224861_at | Guanine nucleotide binding protein (G protein), q polypeptide | <i>GNAQ</i> | 2776 |
| 224862_at | Guanine nucleotide binding protein (G protein), q polypeptide | <i>GNAQ</i> | 2776 |
| 214157_at | GNAS complex locus | <i>GNAS</i> | 2778 |
| 211858_x_at | GNAS complex locus | <i>GNAS</i> | 2778 |
| 200780_x_at | GNAS complex locus | <i>GNAS</i> | 2778 |
| 212273_x_at | GNAS complex locus | <i>GNAS</i> | 2778 |
| 200981_x_at | GNAS complex locus | <i>GNAS</i> | 2778 |
| 214548_x_at | GNAS complex locus | <i>GNAS</i> | 2778 |
| 200745_s_at | guanine nucleotide binding protein (G protein), beta polypeptide 1 | <i>GNB1</i> | 2782 |
| 200744_s_at | guanine nucleotide binding protein (G protein), beta polypeptide 1 | <i>GNB1</i> | 2782 |
| 200852_x_at | guanine nucleotide binding protein (G protein), beta polypeptide 2 | <i>GNB2</i> | 2783 |
| 225710_at | guanine nucleotide binding protein (G protein), beta polypeptide 4 | <i>GNB4</i> | 59345 |
| 223487_x_at | guanine nucleotide binding protein (G protein), beta polypeptide 4 | <i>GNB4</i> | 59345 |
| 224964_s_at | guanine nucleotide binding protein (G protein), gamma 2 | <i>GNG2</i> | 54331 |
| 207157_s_at | guanine nucleotide binding protein (G protein), gamma 5 | <i>GNG5</i> | 2787 |
| 228831_s_at | guanine nucleotide binding protein (G protein), gamma 7 | <i>GNG7</i> | 2788 |
| 233544_at | Guanine nucleotide binding protein-like 1 | <i>GNL1</i> | 2794 |
| 37145_at | granulysin | <i>GNLY</i> | 10578 |
| 205495_s_at | granulysin | <i>GNLY</i> | 10578 |
| 202382_s_at | glucosamine-6-phosphate deaminase 1 | <i>GNPDA1</i> | 10007 |
| 227022_at | glucosamine-6-phosphate deaminase 2 | <i>GNPDA2</i> | 132789 |
| 225853_at | glucosamine-phosphate N-acyltransferase 1 | <i>GNPNAT1</i> | 64841 |
| 212959_s_at | N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits | <i>GNPTAB</i> | 79158 |
| 224887_at | N-acetylglucosamine-1-phosphate transferase, gamma subunit | <i>GNPTG</i> | 84572 |
| 211522_s_at | gonadotropin-releasing hormone receptor | <i>GNRHR</i> | 2798 |
| 211523_at | gonadotropin-releasing hormone receptor | <i>GNRHR</i> | 2798 |
| 212334_at | glucosamine (N-acetyl)-6-sulfatase (Sanfilippo disease IIID) | <i>GNS</i> | 2799 |
| 203676_at | glucosamine (N-acetyl)-6-sulfatase (Sanfilippo disease IIID) | <i>GNS</i> | 2799 |
| 212335_at | glucosamine (N-acetyl)-6-sulfatase (Sanfilippo disease IIID) | <i>GNS</i> | 2799 |
| 207575_at | golgin-like protein /// golgi autoantigen, golgin subfamily a, 6 /// similar to Golg | <i>GOLGA</i> /// <i>GOLGA</i> | 342096 |
| 203383_s_at | golgi autoantigen, golgin subfamily a, 1 | <i>GOLGA1</i> | 2800 |
| 203384_s_at | golgi autoantigen, golgin subfamily a, 1 | <i>GOLGA1</i> | 2800 |
| 35436_at | golgi autoantigen, golgin subfamily a, 2 | <i>GOLGA2</i> | 2801 |
| 204384_at | golgi autoantigen, golgin subfamily a, 2 | <i>GOLGA2</i> | 2801 |
| 211059_s_at | golgi autoantigen, golgin subfamily a, 2 | <i>GOLGA2</i> | 2801 |
| 201567_s_at | golgi autoantigen, golgin subfamily a, 4 | <i>GOLGA4</i> | 2803 |
| 218241_at | golgi autoantigen, golgin subfamily a, 5 | <i>GOLGA5</i> | 9950 |
| 1554167_a_at | golgi autoantigen, golgin subfamily a, 7 | <i>GOLGA7</i> | 51125 |
| 217819_at | golgi autoantigen, golgin subfamily a, 7 | <i>GOLGA7</i> | 51125 |
| 210425_x_at | golgi autoantigen, golgin subfamily a, 8B | <i>GOLGA8B</i> | 23015 /// 44 |
| 201057_s_at | golgin B1, golgi integral membrane protein | <i>GOLGB1</i> | 2804 |
| 238002_at | golgi integral membrane protein 4 | <i>GOLIM4</i> | --- |
| 218692_at | Golgi-localized protein | <i>GOLSYN</i> | 55638 |
| 236862_at | Golgi associated PDZ and coiled-coil motif containing | <i>GOPC</i> | 57120 |
| 227214_at | golgi associated PDZ and coiled-coil motif containing | <i>GOPC</i> | 57120 |

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|--------------|--|-------------------------|--------------|
| 225022_at | golgi associated PDZ and coiled-coil motif containing | <i>GOPC</i> | 57120 |
| 227215_at | golgi associated PDZ and coiled-coil motif containing | <i>GOPC</i> | 57120 |
| 215749_s_at | golgi reassembly stacking protein 1, 65kDa | <i>GORASP1</i> | 64689 |
| 207812_s_at | golgi reassembly stacking protein 2, 55kDa | <i>GORASP2</i> | 26003 |
| 208843_s_at | golgi reassembly stacking protein 2, 55kDa | <i>GORASP2</i> | 26003 |
| 213180_s_at | golgi SNAP receptor complex member 2 | <i>GOSR2</i> | 9570 |
| 211060_x_at | glycosylphosphatidylinositol anchor attachment protein 1 homolog (yeast) | <i>GPAA1</i> | 8733 |
| 219818_s_at | G patch domain containing 1 | <i>GPATCH1</i> | 55094 |
| 242224_at | G patch domain containing 2 | <i>GPATCH2</i> | 55105 |
| 236026_at | G patch domain containing 2 | <i>GPATCH2</i> | 55105 |
| 1556126_s_at | G patch domain containing 2 | <i>GPATCH2</i> | 55105 |
| 239768_x_at | G patch domain containing 2 | <i>GPATCH2</i> | --- |
| 220596_at | G patch domain containing 4 | <i>GPATCH4</i> | 54865 |
| 223705_s_at | GC-rich promoter binding protein 1 | <i>GPBP1</i> | 65056 |
| 217877_s_at | GC-rich promoter binding protein 1-like 1 | <i>GPBP1L1</i> | 60313 |
| 1569320_at | GC-rich promoter binding protein 1-like 1 | <i>GPBP1L1</i> | 60313 |
| 222452_s_at | GC-rich promoter binding protein 1-like 1 | <i>GPBP1L1</i> | 60313 |
| 243243_at | Glypican 3 | <i>GPC3</i> | 2719 |
| 207174_at | glypican 5 | <i>GPC5</i> | 2262 |
| 210007_s_at | glycerol-3-phosphate dehydrogenase 2 (mitochondrial) | <i>GPD2</i> | 2820 |
| 225447_at | glycerol-3-phosphate dehydrogenase 2 (mitochondrial) | <i>GPD2</i> | 2820 |
| 208308_s_at | glucose phosphate isomerase | <i>GPI</i> | 100133951, |
| 209469_at | glycoprotein M6A | <i>GPM6A</i> | 2823 |
| 209470_s_at | glycoprotein M6A | <i>GPM6A</i> | 2823 |
| 201141_at | glycoprotein (transmembrane) nmb | <i>GNMB</i> | 10457 |
| 225058_at | G protein-coupled receptor 108 | <i>GPR108</i> | 56927 |
| 205220_at | G protein-coupled receptor 109B | <i>GPR109B</i> | 8843 |
| 1555447_at | G protein-coupled receptor 114 | <i>GPR114</i> | 221188 |
| 229971_at | G protein-coupled receptor 114 | <i>GPR114</i> | 221188 |
| 1555122_at | G protein-coupled receptor 125 | <i>GPR125</i> | 166647 |
| 233887_at | G protein-coupled receptor 126 | <i>GPR126</i> | 57211 |
| 213094_at | G protein-coupled receptor 126 | <i>GPR126</i> | 57211 |
| 242592_at | G protein-coupled receptor 137C | <i>GPR137C</i> | 283554 |
| 228770_at | G protein-coupled receptor 146 | <i>GPR146</i> | 115330 |
| 231166_at | G protein-coupled receptor 155 | <i>GPR155</i> | 151556 |
| 239533_at | G protein-coupled receptor 155 | <i>GPR155</i> | 151556 |
| 207651_at | G protein-coupled receptor 171 | <i>GPR171</i> | 29909 |
| 218151_x_at | G protein-coupled receptor 172A | <i>GPR172A</i> | 79581 |
| 218855_at | G protein-coupled receptor 175 | <i>GPR175</i> | 131601 |
| 221958_s_at | G protein-coupled receptor 177 | <i>GPR177</i> | 79971 |
| 228949_at | G protein-coupled receptor 177 | <i>GPR177</i> | 79971 |
| 210279_at | G protein-coupled receptor 18 | <i>GPR18</i> | 2841 |
| 207183_at | G protein-coupled receptor 19 | <i>GPR19</i> | 2842 |
| 244493_at | G protein-coupled receptor 22 | <i>GPR22</i> | 2845 |
| 223620_at | G protein-coupled receptor 34 | <i>GPR34</i> | 2857 |
| 210264_at | G protein-coupled receptor 35 | <i>GPR35</i> | 2859 |
| 209631_s_at | G protein-coupled receptor 37 (endothelin receptor type B-like) | <i>GPR37</i> | 2861 |
| 206361_at | G protein-coupled receptor 44 | <i>GPR44</i> | 11251 |
| 212070_at | G protein-coupled receptor 56 | <i>GPR56</i> | 9289 |
| 1553316_at | G protein-coupled receptor 82 | <i>GPR82</i> | 27197 |
| 1553317_s_at | G protein-coupled receptor 82 | <i>GPR82</i> | 27197 |
| 223767_at | G protein-coupled receptor 84 | <i>GPR84</i> | 53831 |
| 219898_at | G protein-coupled receptor 85 | <i>GPR85</i> | 54329 |
| 225463_x_at | G protein-coupled receptor 89A | <i>GPR89A</i> | 51463 /// 65 |
| 220642_x_at | G protein-coupled receptor 89B /// G protein-coupled receptor 89A /// G protei | <i>GPR89A /// GPR89</i> | 51463 /// 65 |
| 223531_x_at | G protein-coupled receptor 89B /// G protein-coupled receptor 89A /// G protei | <i>GPR89A /// GPR89</i> | 51463 /// 65 |
| 1553723_at | G protein-coupled receptor 97 | <i>GPR97</i> | 222487 |
| 220404_at | G protein-coupled receptor 97 | <i>GPR97</i> | 222487 |
| 206747_at | G protein regulated inducer of neurite outgrowth 2 | <i>GPRIN2</i> | 9721 |
| 209350_s_at | G protein pathway suppressor 2 | <i>GPS2</i> | 27065 /// 28 |
| 221922_at | G-protein signaling modulator 2 (AGS3-like, C. elegans) | <i>GPSM2</i> | 29899 |
| 205240_at | G-protein signaling modulator 2 (AGS3-like, C. elegans) | <i>GPSM2</i> | 29899 |
| 204265_s_at | G-protein signaling modulator 3 (AGS3-like, C. elegans) | <i>GPSM3</i> | 63940 |

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|--------------|---|--------------------------|-----------|
| 1569392_at | glycoprotein, synaptic 2 | <i>GPSN2</i> | 9524 |
| 214091_s_at | glutathione peroxidase 3 (plasma) | <i>GPX3</i> | 2878 |
| 201348_at | glutathione peroxidase 3 (plasma) | <i>GPX3</i> | 2878 |
| 201106_at | glutathione peroxidase 4 (phospholipid hydroperoxidase) | <i>GPX4</i> | 2879 |
| 224807_at | GRAM domain containing 1A | <i>GRAMD1A</i> | 57655 |
| 244808_at | GRAM domain containing 1A | <i>GRAMD1A</i> | 57655 |
| 219313_at | GRAM domain containing 1C | <i>GRAMD1C</i> | 54762 |
| 238049_at | GRAM domain containing 3 | <i>GRAMD3</i> | 65983 |
| 228263_at | GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein | <i>GRASP</i> | 160622 |
| 209409_at | growth factor receptor-bound protein 10 | <i>GRB10</i> | 2887 |
| 223049_at | growth factor receptor-bound protein 2 | <i>GRB2</i> | 2885 |
| 215075_s_at | growth factor receptor-bound protein 2 | <i>GRB2</i> | 2885 |
| 218468_s_at | gremlin 1, cysteine knot superfamily, homolog (Xenopus laevis) | <i>GREM1</i> | 26585 |
| 236538_at | glutamate receptor, ionotropic, AMPA 2 | <i>GRIA2</i> | 2891 |
| 241172_at | glutamate receptor, ionotropic, AMPA 2 | <i>GRIA2</i> | 2891 |
| 205358_at | glutamate receptor, ionotropic, AMPA 2 | <i>GRIA2</i> | 2891 |
| 1560142_at | glutamate receptor, ionotropic, kainate 2 | <i>GRIK2</i> | 2898 |
| 212090_at | glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (glutamate) | <i>GRINA</i> | 2907 |
| 204396_s_at | G protein-coupled receptor kinase 5 | <i>GRK5</i> | 2869 |
| 202848_s_at | G protein-coupled receptor kinase 6 | <i>GRK6</i> | 2870 |
| 211543_s_at | G protein-coupled receptor kinase 6 | <i>GRK6</i> | 2870 |
| 229394_s_at | glucocorticoid receptor DNA binding factor 1 | <i>GRLF1</i> | 2909 |
| 214217_at | Glutamate receptor, metabotropic 5 | <i>GRM5</i> | 2915 |
| 208035_at | glutamate receptor, metabotropic 6 | <i>GRM6</i> | 2916 |
| 200678_x_at | granulin | <i>GRN</i> | 2896 |
| 216041_x_at | granulin | <i>GRN</i> | 2896 |
| 211284_s_at | granulin | <i>GRN</i> | 2896 |
| 212432_at | GrpE-like 1, mitochondrial (E. coli) | <i>GRPEL1</i> | 80273 |
| 226881_at | GrpE-like 2, mitochondrial (E. coli) | <i>GRPEL2</i> | 134266 |
| 221917_s_at | G-rich RNA sequence binding factor 1 | <i>GRSF1</i> | 2926 |
| 201501_s_at | G-rich RNA sequence binding factor 1 | <i>GRSF1</i> | 2926 |
| 201520_s_at | G-rich RNA sequence binding factor 1 | <i>GRSF1</i> | 2926 |
| 215659_at | Gasdermin-like | <i>GSDML</i> | 55876 |
| 240452_at | G1 to S phase transition 1 | <i>GSPT1</i> | 2935 |
| 211630_s_at | glutathione synthetase | <i>GSS</i> | 2937 |
| 215766_at | Glutathione S-transferase A1 | <i>GSTA1</i> | 2938 |
| 202967_at | glutathione S-transferase A4 | <i>GSTA4</i> | 2941 |
| 220063_at | glutathione S-transferase, C-terminal domain containing | <i>GSTCD</i> | 79807 |
| 1554518_at | glutathione S-transferase, C-terminal domain containing | <i>GSTCD</i> | 79807 |
| 217751_at | glutathione S-transferase kappa 1 | <i>GSTK1</i> | 373156 |
| 204550_x_at | glutathione S-transferase M1 | <i>GSTM1</i> | 2944 |
| 215333_x_at | glutathione S-transferase M1 | <i>GSTM1</i> | 2944 |
| 204418_x_at | glutathione S-transferase M2 (muscle) | <i>GSTM2</i> | 2946 |
| 235867_at | glutathione S-transferase M3 (brain) | <i>GSTM3</i> | 2947 |
| 210912_x_at | glutathione S-transferase M4 | <i>GSTM4</i> | 2948 |
| 201470_at | glutathione S-transferase omega 1 | <i>GSTO1</i> | 9446 |
| 1557915_s_at | glutathione S-transferase omega 1 | <i>GSTO1</i> | 9446 |
| 220853_at | glycosyltransferase-like domain containing 1 | <i>GTDC1</i> | 79712 |
| 225433_at | General transcription factor IIA, 1, 19/37kDa | <i>GTF2A1</i> | 2957 |
| 202678_at | general transcription factor IIA, 2, 12kDa | <i>GTF2A2</i> | 2958 |
| 202453_s_at | general transcription factor IIH, polypeptide 1, 62kDa | <i>GTF2H1</i> | 2965 |
| 223758_s_at | general transcription factor IIH, polypeptide 2, 44kDa | <i>GTF2H2</i> | 2966 |
| 222104_x_at | general transcription factor IIH, polypeptide 3, 34kDa | <i>GTF2H3</i> | 2967 |
| 210891_s_at | general transcription factor II, i /// general transcription factor II, i, pseudogene | <i>GTF2I /// GTF2IP1</i> | 100093631 |
| 212429_s_at | general transcription factor IIIC, polypeptide 2, beta 110kDa | <i>GTF3C2</i> | 2976 |
| 204366_s_at | general transcription factor IIIC, polypeptide 2, beta 110kDa | <i>GTF3C2</i> | 2976 |
| 218343_s_at | general transcription factor IIIC, polypeptide 3, 102kDa | <i>GTF3C3</i> | 9330 |
| 219357_at | GTP binding protein 1 | <i>GTPBP1</i> | 9567 |
| 226359_at | GTP binding protein 1 | <i>GTPBP1</i> | 9567 |
| 239773_at | GTP-binding protein 10 (putative) | <i>GTPBP10</i> | 85865 |
| 223789_s_at | GTP binding protein 2 | <i>GTPBP2</i> | 54676 |
| 213835_x_at | GTP binding protein 3 (mitochondrial) | <i>GTPBP3</i> | 84705 |
| 228002_at | GTP binding protein 4 /// isopenentenyl-diphosphate delta isomerase 2 | <i>GTPBP4 /// IDI2</i> | 91734 |

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|--------------|---|-------------------------------|--------------|
| 242685_at | GTP-binding protein 8 (putative) | <i>GTPBP8</i> | 29083 |
| 211040_x_at | G-2 and S-phase expressed 1 | <i>GTSE1</i> | 51512 |
| 200075_s_at | guanylate kinase 1 | <i>GUK1</i> | 2987 |
| 204237_at | GULP, engulfment adaptor PTB domain containing 1 | <i>GULP1</i> | 51454 |
| 204235_s_at | GULP, engulfment adaptor PTB domain containing 1 | <i>GULP1</i> | 51454 |
| 232207_at | glucuronidase, beta-like 2 | <i>GUSBL2</i> | 375513 |
| 232889_at | glucuronidase, beta pseudogene 1 | <i>GUSBP1</i> | --- |
| 213089_at | glucuronidase, beta pseudogene 1 | <i>GUSBP1</i> | 100132134, |
| 220577_at | GTPase, very large interferon inducible 1 | <i>GVIN1</i> | 387751 |
| 201554_x_at | glycogenin 1 | <i>GYG1</i> | 2992 |
| 211275_s_at | glycogenin 1 | <i>GYG1</i> | 2992 |
| 1559520_at | Glycophorin A (MNS blood group) | <i>GYP A</i> | 2993 |
| 202947_s_at | glycophorin C (Gerbich blood group) | <i>GYPC</i> | 2995 |
| 201673_s_at | glycogen synthase 1 (muscle) | <i>GYS1</i> | 2997 |
| 225884_s_at | GDNF-inducible zinc finger protein 1 | <i>GZF1</i> | 64412 |
| 234055_s_at | GDNF-inducible zinc finger protein 1 | <i>GZF1</i> | 64412 |
| 205488_at | granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3) | <i>GZMA</i> | 3001 |
| 210164_at | granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1) | <i>GZMB</i> | 3002 |
| 206666_at | granzyme K (granzyme 3; tryptase II) | <i>GZMK</i> | 3003 |
| 225245_x_at | H2A histone family, member J | <i>H2AFJ</i> | 55766 |
| 227085_at | H2A histone family, member V | <i>H2AFV</i> | 94239 |
| 212205_at | H2A histone family, member V | <i>H2AFV</i> | 94239 |
| 212206_s_at | H2A histone family, member V | <i>H2AFV</i> | 94239 |
| 205436_s_at | H2A histone family, member X | <i>H2AFX</i> | 3014 |
| 212525_s_at | H2A histone family, member X | <i>H2AFX</i> | 3014 |
| 214500_at | H2A histone family, member Y | <i>H2AFY</i> | 9555 |
| 211997_x_at | H3 histone, family 3B (H3.3B) | <i>H3F3B</i> | 3020 /// 30: |
| 211999_at | H3 histone, family 3B (H3.3B) | <i>H3F3B</i> | 3020 /// 30: |
| 209069_s_at | H3 histone, family 3B (H3.3B) | <i>H3F3B</i> | 3020 /// 30: |
| 211998_at | H3 histone, family 3B (H3.3B) | <i>H3F3B</i> | 3020 /// 30: |
| 226160_at | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) | <i>H6PD</i> | 9563 |
| 227471_at | HECT domain and ankyrin repeat containing, E3 ubiquitin protein ligase 1 | <i>HACE1</i> | 57531 |
| 201036_s_at | hydroxyacyl-Coenzyme A dehydrogenase | <i>HADH</i> | 3033 |
| 206643_at | histidine ammonia-lyase | <i>HAL</i> | 3034 |
| 202042_at | histidyl-tRNA synthetase | <i>HARS</i> | 3035 |
| 209102_s_at | HMG-box transcription factor 1 | <i>HBP1</i> | 26959 |
| 240602_at | HBS1-like (<i>S. cerevisiae</i>) | <i>HBS1L</i> | 10767 |
| 209316_s_at | HBS1-like (<i>S. cerevisiae</i>) | <i>HBS1L</i> | 10767 |
| 202300_at | hepatitis B virus x interacting protein | <i>HBXIP</i> | 10542 |
| 202299_s_at | hepatitis B virus x interacting protein | <i>HBXIP</i> | 10542 |
| 244296_at | HCG1776047 | <i>hCG_1776047</i> | 727961 |
| 206548_at | hypothetical protein FLJ23556 | <i>hCG_1776259</i> | 79938 |
| 232298_at | hCG1806964 | <i>hCG_1806964</i> | 401093 |
| 243892_at | hCG1814936 | <i>hCG_1814936</i> | 646865 |
| 238021_s_at | hCG1815491 | <i>hCG_1815491</i> | 643911 |
| 238022_at | hCG1815491 | <i>hCG_1815491</i> | 643911 |
| 200886_s_at | phosphoglycerate mutase 1 (brain) /// phosphoglycerate mutase 1 pseudogene | <i>hCG_2015138</i> /// F 5223 | |
| 213356_x_at | heterogeneous nuclear ribonucleoprotein A1 /// heterogeneous nuclear ribonu | <i>hCG_2023776</i> /// t | 100128836, |
| 216559_x_at | heterogeneous nuclear ribonucleoprotein A1 /// similar to Heterogeneous nucle | <i>hCG_2023776</i> /// t | 100128836, |
| 232239_at | hCG2024094 | <i>hCG_2024094</i> | 643529 |
| 1559276_at | potassium channel tetramerisation domain containing 1 | <i>hCG_38480</i> | 728606 |
| 235542_at | hypothetical protein MGC22014 | <i>hCG_40738</i> | 200424 |
| 214754_at | hypothetical protein MGC22014 | <i>hCG_40738</i> | 200424 |
| 225584_at | HLA complex group 18 | <i>HCG18</i> | 414777 |
| 1559050_at | HLA complex group 27 | <i>HCG27</i> | 253018 |
| 216229_x_at | HLA complex group 2 pseudogene 7 | <i>HCG2P7</i> | 80867 |
| 202957_at | hematopoietic cell-specific Lyn substrate 1 | <i>HCLS1</i> | 3059 |
| 206082_at | HLA complex P5 | <i>HCP5</i> | 10866 |
| 216176_at | hepatocellular carcinoma-related HCRP1 | <i>HCRP1</i> | 387535 |
| 216174_at | hepatocellular carcinoma-related HCRP1 | <i>HCRP1</i> | 387535 |
| 201209_at | histone deacetylase 1 | <i>HDAC1</i> | 3065 |
| 204225_at | histone deacetylase 4 | <i>HDAC4</i> | 9759 |
| 1554322_a_at | histone deacetylase 4 | <i>HDAC4</i> | 9759 |

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|--------------|---|--------------------------|--------|
| 228813_at | histone deacetylase 4 | <i>HDAC4</i> | 9759 |
| 202455_at | histone deacetylase 5 | <i>HDAC5</i> | 10014 |
| 1552760_at | histone deacetylase 9 | <i>HDAC9</i> | 9734 |
| 203260_at | HD domain containing 2 | <i>HDHC2</i> | 51020 |
| 203259_s_at | HD domain containing 2 | <i>HDHC2</i> | 51020 |
| 216693_x_at | hepatoma-derived growth factor, related protein 3 | <i>HDGFRP3</i> | 50810 |
| 209524_at | hepatoma-derived growth factor, related protein 3 | <i>HDGFRP3</i> | 50810 |
| 209525_at | Hepatoma-derived growth factor, related protein 3 | <i>HDGFRP3</i> | 50810 |
| 209526_s_at | hepatoma-derived growth factor, related protein 3 | <i>HDGFRP3</i> | 50810 |
| 223155_at | haloacid dehalogenase-like hydrolase domain containing 2 | <i>HDHD2</i> | 84064 |
| 221767_x_at | high density lipoprotein binding protein (vigilin) | <i>HDLBP</i> | 3069 |
| 200643_at | high density lipoprotein binding protein (vigilin) | <i>HDLBP</i> | 3069 |
| 225012_at | high density lipoprotein binding protein (vigilin) | <i>HDLBP</i> | 3069 |
| 224129_s_at | dpy-30-like protein | <i>HPY-30</i> | 84661 |
| 232414_at | HEAT repeat containing 1 | <i>HEATR1</i> | 55127 |
| 218594_at | HEAT repeat containing 1 | <i>HEATR1</i> | 55127 |
| 218460_at | HEAT repeat containing 2 | <i>HEATR2</i> | 54919 |
| 226510_at | HEAT repeat containing 5A | <i>HEATR5A</i> | 25938 |
| 233642_s_at | HEAT repeat containing 5B | <i>HEATR5B</i> | 54497 |
| 65493_at | HEAT repeat containing 6 | <i>HEATR6</i> | 63897 |
| 218450_at | heme binding protein 1 | <i>HEBP1</i> | 50865 |
| 1557100_s_at | HECT domain containing 1 | <i>HECTD1</i> | 25831 |
| 227568_at | HECT domain containing 2 | <i>HECTD2</i> | 143279 |
| 218632_at | HECT domain containing 3 | <i>HECTD3</i> | 79654 |
| 232080_at | HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2 | <i>HECW2</i> | 57520 |
| 1554341_a_at | DNA helicase HEL308 | <i>HEL308</i> | 113510 |
| 240703_s_at | hect (homologous to the E6-AP (UBE3A) carboxyl terminus) domain and RCC1 (C | <i>HERC1</i> | 8925 |
| 217902_s_at | hect domain and RLD 2 | <i>HERC2</i> | 8924 |
| 219863_at | hect domain and RLD 5 | <i>HERC5</i> | 51191 |
| 219352_at | hect domain and RLD 6 | <i>HERC6</i> | 55008 |
| 217168_s_at | homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like c | <i>HERPUD1</i> | 9709 |
| 215155_at | Hexosaminidase A (alpha polypeptide) | <i>HEXA</i> | 3073 |
| 201765_s_at | hexosaminidase A (alpha polypeptide) | <i>HEXA</i> | 3073 |
| 201944_at | hexosaminidase B (beta polypeptide) | <i>HEXB</i> | 3074 |
| 1555866_a_at | hexosaminidase (glycosyl hydrolase family 20, catalytic domain) containing | <i>HEXDC</i> | 284004 |
| 211330_s_at | hemochromatosis | <i>HFE</i> | 3077 |
| 241469_at | HFM1, ATP-dependent DNA helicase homolog (S. cerevisiae) | <i>HFM1</i> | 164045 |
| 1564285_at | HFM1, ATP-dependent DNA helicase homolog (S. cerevisiae) | <i>HFM1</i> | 164045 |
| 210755_at | hepatocyte growth factor (hepapoietin A; scatter factor) | <i>HGF</i> | 3082 |
| 209960_at | hepatocyte growth factor (hepapoietin A; scatter factor) | <i>HGF</i> | 3082 |
| 210428_s_at | hepatocyte growth factor-regulated tyrosine kinase substrate | <i>HGS</i> | 9146 |
| 204689_at | hematopoietically expressed homeobox | <i>HHEX</i> | 3087 |
| 215933_s_at | hematopoietically expressed homeobox | <i>HHEX</i> | 3087 |
| 223775_at | hedgehog interacting protein | <i>HHIP</i> | 64399 |
| 234665_x_at | HERV-H LTR-associating 3 | <i>HHLA3</i> | 11147 |
| 225222_at | hippocampus abundant transcript 1 | <i>HIAT1</i> | 64645 |
| 223073_at | hippocampus abundant transcript-like 1 | <i>HIATL1</i> | 84641 |
| 213374_x_at | 3-hydroxyisobutyryl-Coenzyme A hydrolase | <i>HIBCH</i> | 26275 |
| 212964_at | hypermethylated in cancer 2 | <i>HIC2</i> | 23119 |
| 1554452_a_at | hypoxia-inducible protein 2 | <i>HIG2</i> | 29923 |
| 218507_at | hypoxia-inducible protein 2 | <i>HIG2</i> | 29923 |
| 200093_s_at | histidine triad nucleotide binding protein 1 | <i>HINT1</i> | 3094 |
| 207721_x_at | histidine triad nucleotide binding protein 1 | <i>HINT1</i> | 3094 |
| 228697_at | histidine triad nucleotide binding protein 3 | <i>HINT3</i> | 135114 |
| 226537_at | histidine triad nucleotide binding protein 3 | <i>HINT3</i> | 135114 |
| 226533_at | histidine triad nucleotide binding protein 3 | <i>HINT3</i> | 135114 |
| 226364_at | Huntingtin interacting protein 1 | <i>HIP1</i> | 3092 |
| 38340_at | huntingtin interacting protein 1 related /// similar to huntingtin interacting prot | <i>HIP1R /// LOC7280</i> | 9026 |
| 202347_s_at | huntingtin interacting protein 2 | <i>HIP2</i> | 3093 |
| 225368_at | Homeodomain interacting protein kinase 2 | <i>HIPK2</i> | 28996 |
| 203253_s_at | histidine acid phosphatase domain containing 1 | <i>HISPPD1</i> | 23262 |
| 209398_at | histone cluster 1, H1c | <i>HIST1H1C</i> | 3006 |
| 215071_s_at | histone cluster 1, H2ac | <i>HIST1H2AC</i> | 8334 |

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|-------------|---|--|
| 214455_at | histone cluster 1, H2bg /// histone cluster 1, H2bc | <i>HIST1H2BC</i> /// HIS: 8339 /// 834 |
| 209911_x_at | histone cluster 1, H2bd | <i>HIST1H2BD</i> 3017 |
| 222067_x_at | histone cluster 1, H2bd | <i>HIST1H2BD</i> 3017 |
| 208527_x_at | histone cluster 1, H2be | <i>HIST1H2BE</i> 8339 /// 834 |
| 210387_at | histone cluster 1, H2bg | <i>HIST1H2BG</i> 8339 |
| 209806_at | histone cluster 1, H2bk | <i>HIST1H2BK</i> 85236 |
| 214472_at | histone cluster 1, H3d | <i>HIST1H3D</i> 8351 |
| 214516_at | histone cluster 1, H4b | <i>HIST1H4B</i> 121504 /// 5 |
| 205967_at | histone cluster 1, H4c | <i>HIST1H4C</i> 121504 /// 5 |
| 218280_x_at | histone cluster 2, H2aa3 /// histone cluster 2, H2aa4 | <i>HIST2H2AA3</i> /// HI: 723790 /// 5 |
| 214290_s_at | histone cluster 2, H2aa3 /// histone cluster 2, H2aa4 | <i>HIST2H2AA3</i> /// HI: 723790 /// 5 |
| 202708_s_at | histone cluster 2, H2be | <i>HIST2H2BE</i> 8349 |
| 221582_at | histone cluster 3, H2a | <i>HIST3H2A</i> 92815 |
| 204512_at | human immunodeficiency virus type I enhancer binding protein 1 | <i>HIVEP1</i> 3096 |
| 212642_s_at | human immunodeficiency virus type I enhancer binding protein 2 | <i>HIVEP2</i> 3097 |
| 212641_at | human immunodeficiency virus type I enhancer binding protein 2 | <i>HIVEP2</i> 3097 |
| 202934_at | hexokinase 2 | <i>HK2</i> 3099 |
| 211799_x_at | major histocompatibility complex, class I, C | <i>HLA-C</i> 3107 |
| 201137_s_at | major histocompatibility complex, class II, DP beta 1 | <i>HLA-DPB1</i> 3115 |
| 239975_at | major histocompatibility complex, class II, DP beta 2 (pseudogene) | <i>HLA-DPB2</i> 3116 |
| 213831_at | major histocompatibility complex, class II, DQ alpha 1 | <i>HLA-DQA1</i> 3117 |
| 212998_x_at | major histocompatibility complex, class II, DQ beta 1 | <i>HLA-DQB1</i> 100133484 , |
| 209480_at | major histocompatibility complex, class II, DQ beta 1 | <i>HLA-DQB1</i> 3119 |
| 204806_x_at | major histocompatibility complex, class I, F | <i>HLA-F</i> 3134 |
| 221978_at | major histocompatibility complex, class I, F | <i>HLA-F</i> 3134 |
| 211528_x_at | HLA-G histocompatibility antigen, class I, G | <i>HLA-G</i> 3135 |
| 211529_x_at | HLA-G histocompatibility antigen, class I, G | <i>HLA-G</i> 3135 |
| 211530_x_at | HLA-G histocompatibility antigen, class I, G | <i>HLA-G</i> 3135 |
| 202983_at | helicase-like transcription factor | <i>HLTF</i> 6596 |
| 214438_at | H2.0-like homeobox | <i>HLX</i> 3142 |
| 224615_x_at | histocompatibility (minor) 13 | <i>HM13</i> 81502 |
| 1558561_at | histocompatibility (minor) 13 | <i>HM13</i> 81502 |
| 210719_s_at | high-mobility group 20B | <i>HMG20B</i> 10362 |
| 209113_s_at | high-mobility group 20B | <i>HMG20B</i> 10362 |
| 212597_s_at | high-mobility group protein 2-like 1 | <i>HMG2L1</i> 10042 |
| 212596_s_at | high-mobility group protein 2-like 1 | <i>HMG2L1</i> 10042 |
| 206074_s_at | high mobility group AT-hook 1 | <i>HMGGA1</i> 3159 |
| 203744_at | high-mobility group box 3 | <i>HMGGB3</i> 3149 |
| 202772_at | 3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase (hydroxymethylglutaricaci | <i>HMGCL</i> 3155 |
| 233576_at | 3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase-like 1 | <i>HMGCLL1</i> 54511 |
| 232305_at | 3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase-like 1 | <i>HMGCLL1</i> 54511 |
| 221750_at | 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble) | <i>HMGCS1</i> 3157 |
| 240110_at | 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial) | <i>HMGCS2</i> 3158 |
| 209377_s_at | high mobility group nucleosomal binding domain 3 | <i>HMGN3</i> 9324 |
| 212873_at | histocompatibility (minor) HA-1 | <i>HMHA1</i> 23526 |
| 218120_s_at | heme oxygenase (decycling) 2 | <i>HMOX2</i> 3163 |
| 222396_at | hematological and neurological expressed 1 | <i>HN1</i> 51155 |
| 232271_at | hepatocyte nuclear factor 4, gamma | <i>HNF4G</i> 3174 |
| 204112_s_at | histamine N-methyltransferase | <i>HNMT</i> 3176 |
| 200016_x_at | heterogeneous nuclear ribonucleoprotein A1 /// similar to Heterogeneous nucle | <i>HNRNPA1</i> /// LOC6 3178 |
| 212626_x_at | heterogeneous nuclear ribonucleoprotein C (C1/C2) | <i>HNRNPC</i> 3183 |
| 200014_s_at | heterogeneous nuclear ribonucleoprotein C (C1/C2) | <i>HNRNPC</i> 3183 |
| 214737_x_at | heterogeneous nuclear ribonucleoprotein C (C1/C2) | <i>HNRNPC</i> 3183 |
| 200751_s_at | heterogeneous nuclear ribonucleoprotein C (C1/C2) | <i>HNRNPC</i> 3183 |
| 200594_x_at | heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A) | <i>HNRNPU</i> 3192 |
| 200593_s_at | heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A) | <i>HNRNPU</i> 3192 |
| 1555653_at | heterogeneous nuclear ribonucleoprotein A3 | <i>HNRPA3</i> 220988 |
| 211930_at | heterogeneous nuclear ribonucleoprotein A3 | <i>HNRPA3</i> 220988 |
| 221480_at | heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding prot | <i>HNRPD</i> 3184 |
| 213359_at | Heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding prot | <i>HNRPD</i> 3184 |
| 201993_x_at | heterogeneous nuclear ribonucleoprotein D-like | <i>HNRPDL</i> 9987 |
| 209068_at | heterogeneous nuclear ribonucleoprotein D-like | <i>HNRPDL</i> 9987 |
| 201376_s_at | heterogeneous nuclear ribonucleoprotein F | <i>HNRPF</i> 3185 |

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|-------------|--|--------------------------|----------------|
| 201132_at | heterogeneous nuclear ribonucleoprotein H2 (H') | <i>HNRPH2</i> | 3188 |
| 207127_s_at | heterogeneous nuclear ribonucleoprotein H3 (2H9) | <i>HNRPH3</i> | 3189 |
| 210588_x_at | heterogeneous nuclear ribonucleoprotein H3 (2H9) | <i>HNRPH3</i> | 3189 |
| 210110_x_at | heterogeneous nuclear ribonucleoprotein H3 (2H9) | <i>HNRPH3</i> | 3189 |
| 200775_s_at | heterogeneous nuclear ribonucleoprotein K | <i>HNRPK</i> | 3190 |
| 225385_s_at | heterogeneous nuclear ribonucleoprotein L-like | <i>HNRPLL</i> | 92906 |
| 1554453_at | heterogeneous nuclear ribonucleoprotein L-like | <i>HNRPLL</i> | 92906 |
| 1555843_at | Heterogeneous nuclear ribonucleoprotein M | <i>HNRPM</i> | 4670 |
| 209675_s_at | heterogeneous nuclear ribonucleoprotein U-like 1 | <i>HNRPUL1</i> | 11100 |
| 226651_at | homer homolog 1 (Drosophila) | <i>HOMER1</i> | 9456 |
| 204647_at | homer homolog 3 (Drosophila) | <i>HOMER3</i> | 9454 |
| 215489_x_at | homer homolog 3 (Drosophila) | <i>HOMER3</i> | 9454 |
| 231868_at | homeobox and leucine zipper encoding | <i>HOMEZ</i> | 57594 |
| 209721_s_at | hypothetical protein LOC25900 | <i>HOM-TE5-103</i> | 25900 |
| 235114_x_at | hook homolog 3 (Drosophila) | <i>HOOK3</i> | 84376 |
| 206848_at | homeobox A7 | <i>HOXA7</i> | 116228 /// 321 |
| 226461_at | homeobox B9 | <i>HOXB9</i> | 3219 |
| 206858_s_at | homeobox C6 | <i>HOXC6</i> | 3221 /// 321 |
| 229400_at | homeobox D10 | <i>HOXD10</i> | 3236 |
| 231906_at | Homeobox D8 | <i>HOXD8</i> | 3234 |
| 206697_s_at | haptoglobin | <i>HP</i> | 3240 /// 321 |
| 208470_s_at | haptoglobin /// haptoglobin-related protein | <i>HP /// HPR</i> | 3240 /// 321 |
| 1554251_at | heterochromatin protein 1, binding protein 3 | <i>HP1BP3</i> | 50809 |
| 205462_s_at | hippocalcin-like 1 | <i>HPCAL1</i> | 3241 |
| 212552_at | hippocalcin-like 1 | <i>HPCAL1</i> | 3241 |
| 203914_x_at | hydroxyprostaglandin dehydrogenase 15-(NAD) | <i>HPGD</i> | 3248 |
| 203913_s_at | hydroxyprostaglandin dehydrogenase 15-(NAD) | <i>HPGD</i> | 3248 |
| 211548_s_at | hydroxyprostaglandin dehydrogenase 15-(NAD) | <i>HPGD</i> | 3248 |
| 202854_at | hypoxanthine phosphoribosyltransferase 1 (Lesch-Nyhan syndrome) | <i>HPRT1</i> | 3251 |
| 210112_at | Hermansky-Pudlak syndrome 1 | <i>HPS1</i> | 3257 |
| 217354_s_at | Hermansky-Pudlak syndrome 1 /// similar to Hermansky-Pudlak syndrome 1 prc | <i>HPS1 /// LOC64675</i> | 3257 |
| 227139_s_at | Hermansky-Pudlak syndrome 3 | <i>HPS3</i> | 84343 |
| 204544_at | Hermansky-Pudlak syndrome 5 | <i>HPS5</i> | 11234 |
| 222881_at | heparanase | <i>HPSE</i> | 10855 |
| 1566917_at | Helicobacter pylori responsive 1 | <i>HPYR1</i> | 93668 |
| 235110_at | HRAS-like suppressor 3 | <i>HRASLS3</i> | 11145 |
| 213926_s_at | HIV-1 Rev binding protein | <i>HRB</i> | 3267 |
| 218091_at | HIV-1 Rev binding protein | <i>HRB</i> | 3267 |
| 221170_at | histamine receptor H4 | <i>HRH4</i> | 59340 |
| 221169_s_at | histamine receptor H4 | <i>HRH4</i> | 59340 |
| 219020_at | HCLS1 binding protein 3 | <i>HS1BP3</i> | 64342 |
| 203283_s_at | heparan sulfate 2-O-sulfotransferase 1 | <i>HS2ST1</i> | 9653 |
| 203284_s_at | heparan sulfate 2-O-sulfotransferase 1 | <i>HS2ST1</i> | 9653 |
| 225263_at | heparan sulfate 6-O-sulfotransferase 1 | <i>HS6ST1</i> | 9394 |
| 202282_at | hydroxysteroid (17-beta) dehydrogenase 10 | <i>HSD17B10</i> | 3028 |
| 217989_at | hydroxysteroid (17-beta) dehydrogenase 11 | <i>HSD17B11</i> | 51170 |
| 201413_at | hydroxysteroid (17-beta) dehydrogenase 4 | <i>HSD17B4</i> | 3295 |
| 209657_s_at | heat shock transcription factor 2 | <i>HSF2</i> | 3298 |
| 224052_at | heat shock transcription factor, Y-linked 1 /// heat shock transcription factor, Y l | <i>HSFY1 /// HSFY2</i> | 159119 /// 321 |
| 200599_s_at | heat shock protein 90kDa beta (Grp94), member 1 | <i>HSP90B1</i> | 7184 |
| 227650_at | heat shock 70kDa protein 14 | <i>HSPA14</i> | 51182 |
| 200799_at | heat shock 70kDa protein 1A | <i>HSPA1A</i> | 3303 /// 330 |
| 200800_s_at | heat shock 70kDa protein 1A /// heat shock 70kDa protein 1B | <i>HSPA1A /// HSPA1B</i> | 3303 /// 330 |
| 202581_at | heat shock 70kDa protein 1B | <i>HSPA1B</i> | 3303 /// 330 |
| 208815_x_at | heat shock 70kDa protein 4 | <i>HSPA4</i> | 3308 |
| 211936_at | heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa) | <i>HSPA5</i> | 3309 |
| 117_at | heat shock 70kDa protein 6 (HSP70B') | <i>HSPA6</i> | 3310 |
| 213418_at | heat shock 70kDa protein 6 (HSP70B') | <i>HSPA6</i> | 3310 |
| 221891_x_at | heat shock 70kDa protein 8 /// similar to heat shock protein 8 | <i>HSPA8 /// LOC4021</i> | 3312 |
| 210338_s_at | heat shock 70kDa protein 8 /// similar to heat shock protein 8 | <i>HSPA8 /// LOC4021</i> | 3312 |
| 224187_x_at | heat shock 70kDa protein 8 /// similar to heat shock protein 8 | <i>HSPA8 /// LOC4021</i> | 3312 |
| 208687_x_at | heat shock 70kDa protein 8 /// similar to heat shock protein 8 | <i>HSPA8 /// LOC4021</i> | 3312 |
| 219284_at | HSPB (heat shock 27kDa) associated protein 1 | <i>HSPBAP1</i> | 79663 |

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|--------------|---|---------------------|--------------|
| 217774_s_at | hypothetical protein HSPC152 | <i>HSPC152</i> | 51504 |
| 200806_s_at | heat shock 60kDa protein 1 (chaperonin) | <i>HSPD1</i> | 3329 |
| 200807_s_at | heat shock 60kDa protein 1 (chaperonin) | <i>HSPD1</i> | 3329 |
| 205133_s_at | heat shock 10kDa protein 1 (chaperonin 10) | <i>HSPE1</i> | 3336 |
| 206976_s_at | heat shock 105kDa/110kDa protein 1 | <i>HSPH1</i> | 10808 |
| 214258_x_at | HIV-1 Tat interacting protein, 60kDa | <i>HTATIP</i> | 10524 |
| 210253_at | HIV-1 Tat interactive protein 2, 30kDa | <i>HTATIP2</i> | 10553 |
| 209448_at | HIV-1 Tat interactive protein 2, 30kDa | <i>HTATIP2</i> | 10553 |
| 207180_s_at | HIV-1 Tat interactive protein 2, 30kDa | <i>HTATIP2</i> | 10553 |
| 202602_s_at | HIV-1 Tat specific factor 1 | <i>HTATSF1</i> | 27336 |
| 207404_s_at | 5-hydroxytryptamine (serotonin) receptor 1E | <i>HTR1E</i> | 3354 |
| 207135_at | 5-hydroxytryptamine (serotonin) receptor 2A | <i>HTR2A</i> | 3356 |
| 203089_s_at | HtrA serine peptidase 2 | <i>HTRA2</i> | 27429 |
| 226879_at | hydrogen voltage-gated channel 1 | <i>HVCN1</i> | 84329 |
| 200825_s_at | hypoxia up-regulated 1 | <i>HYOU1</i> | 10525 |
| 219910_at | Huntingtin interacting protein E | <i>HYPE</i> | 11153 |
| 217900_at | isoleucyl-tRNA synthetase 2, mitochondrial | <i>IARS2</i> | 55699 |
| 210547_x_at | islet cell autoantigen 1, 69kDa | <i>ICA1</i> | 3382 |
| 1555671_at | islet cell autoantigen 1,69kDa-like | <i>ICA1L</i> | 130026 |
| 202638_s_at | intercellular adhesion molecule 1 (CD54), human rhinovirus receptor | <i>ICAM1</i> | 3383 |
| 202637_s_at | intercellular adhesion molecule 1 (CD54), human rhinovirus receptor | <i>ICAM1</i> | 3383 |
| 215485_s_at | intercellular adhesion molecule 1 (CD54), human rhinovirus receptor | <i>ICAM1</i> | 3383 |
| 204949_at | intercellular adhesion molecule 3 | <i>ICAM3</i> | 3385 |
| 204569_at | intestinal cell (MAK-like) kinase | <i>ICK</i> | 22858 |
| 201611_s_at | isoprenylcysteine carboxyl methyltransferase | <i>ICMT</i> | 23463 |
| 211197_s_at | inducible T-cell co-stimulator ligand | <i>ICOSLG</i> | 23308 |
| 201566_x_at | inhibitor of DNA binding 2, dominant negative helix-loop-helix protein /// inhibi | <i>ID2 /// ID2B</i> | 3398 |
| 213931_at | inhibitor of DNA binding 2, dominant negative helix-loop-helix protein /// inhibi | <i>ID2 /// ID2B</i> | 3398 /// 840 |
| 209292_at | Inhibitor of DNA binding 4, dominant negative helix-loop-helix protein | <i>ID4</i> | 3400 |
| 209291_at | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein | <i>ID4</i> | 3400 |
| 209293_x_at | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein | <i>ID4</i> | 3400 |
| 226933_s_at | Inhibitor of DNA binding 4, dominant negative helix-loop-helix protein | <i>ID4</i> | 3400 |
| 203328_x_at | insulin-degrading enzyme | <i>IDE</i> | 3416 |
| 217496_s_at | insulin-degrading enzyme | <i>IDE</i> | 3416 |
| 203327_at | insulin-degrading enzyme | <i>IDE</i> | 3416 |
| 1555037_a_at | isocitrate dehydrogenase 1 (NADP+), soluble | <i>IDH1</i> | 3417 |
| 202471_s_at | isocitrate dehydrogenase 3 (NAD+) gamma | <i>IDH3G</i> | 3421 |
| 204615_x_at | isopentenyl-diphosphate delta isomerase 1 | <i>IDI1</i> | 3422 |
| 202438_x_at | iduronate 2-sulfatase (Hunter syndrome) | <i>IDS</i> | 3423 |
| 202439_s_at | iduronate 2-sulfatase (Hunter syndrome) | <i>IDS</i> | 3423 |
| 206342_x_at | iduronate 2-sulfatase (Hunter syndrome) | <i>IDS</i> | 3423 |
| 211782_at | iduronate 2-sulfatase (Hunter syndrome) | <i>IDS</i> | 3423 |
| 210666_at | iduronate 2-sulfatase (Hunter syndrome) | <i>IDS</i> | 3423 |
| 201631_s_at | immediate early response 3 | <i>IER3</i> | 8870 |
| 223071_at | immediate early response 3 interacting protein 1 | <i>IER3IP1</i> | 51124 |
| 218611_at | immediate early response 5 | <i>IER5</i> | 51278 |
| 201422_at | interferon, gamma-inducible protein 30 | <i>IFI30</i> | 10437 |
| 209417_s_at | interferon-induced protein 35 | <i>IFI35</i> | 3430 |
| 214453_s_at | interferon-induced protein 44 | <i>IFI44</i> | 10561 |
| 214059_at | Interferon-induced protein 44 | <i>IFI44</i> | 10561 |
| 204439_at | interferon-induced protein 44-like | <i>IFI44L</i> | 10964 |
| 204415_at | interferon, alpha-inducible protein 6 | <i>IFI6</i> | 2537 |
| 203153_at | interferon-induced protein with tetratricopeptide repeats 1 | <i>IFIT1</i> | 3434 |
| 226757_at | interferon-induced protein with tetratricopeptide repeats 2 | <i>IFIT2</i> | 3433 |
| 217502_at | interferon-induced protein with tetratricopeptide repeats 2 | <i>IFIT2</i> | 3433 |
| 229450_at | interferon-induced protein with tetratricopeptide repeats 3 | <i>IFIT3</i> | 3437 |
| 204747_at | interferon-induced protein with tetratricopeptide repeats 3 | <i>IFIT3</i> | 3437 |
| 203595_s_at | interferon-induced protein with tetratricopeptide repeats 5 | <i>IFIT5</i> | 24138 |
| 203596_s_at | interferon-induced protein with tetratricopeptide repeats 5 | <i>IFIT5</i> | 24138 |
| 208261_x_at | interferon, alpha 10 | <i>IFNA10</i> | 3446 |
| 208448_x_at | interferon, alpha 16 | <i>IFNA16</i> | 3449 |
| 211405_x_at | interferon, alpha 17 | <i>IFNA17</i> | 3451 |
| 207964_x_at | interferon, alpha 4 | <i>IFNA4</i> | 3441 |

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|--------------|--|----------------------------|--------------|
| 208259_x_at | interferon, alpha 7 | <i>IFNA7</i> | 3444 |
| 225661_at | interferon (alpha, beta and omega) receptor 1 | <i>IFNAR1</i> | 3454 |
| 204785_x_at | interferon (alpha, beta and omega) receptor 2 | <i>IFNAR2</i> | 3455 |
| 1553574_at | interferon epsilon 1 | <i>IFNE1</i> | 338376 |
| 202727_s_at | interferon gamma receptor 1 | <i>IFNGR1</i> | 3459 |
| 211676_s_at | interferon gamma receptor 1 | <i>IFNGR1</i> | 3459 |
| 242903_at | interferon gamma receptor 1 | <i>IFNGR1</i> | 3459 |
| 201642_at | interferon gamma receptor 2 (interferon gamma transducer 1) | <i>IFNGR2</i> | 3460 |
| 202146_at | interferon-related developmental regulator 1 | <i>IFRD1</i> | 3475 |
| 202147_s_at | interferon-related developmental regulator 1 | <i>IFRD1</i> | 3475 |
| 216678_at | intraflagellar transport 122 homolog (Chlamydomonas) | <i>IFT122</i> | 55764 |
| 1564231_at | intraflagellar transport 80 homolog (Chlamydomonas) | <i>IFT80</i> | 57560 |
| 209540_at | insulin-like growth factor 1 (somatomedin C) | <i>IGF1</i> | 3479 |
| 218847_at | insulin-like growth factor 2 mRNA binding protein 2 | <i>IGF2BP2</i> | 10644 |
| 203820_s_at | insulin-like growth factor 2 mRNA binding protein 3 | <i>IGF2BP3</i> | 10643 |
| 203819_s_at | insulin-like growth factor 2 mRNA binding protein 3 | <i>IGF2BP3</i> | 10643 |
| 1569033_at | insulin-like growth factor 2 mRNA binding protein 3 | <i>IGF2BP3</i> | 10643 |
| 201392_s_at | insulin-like growth factor 2 receptor | <i>IGF2R</i> | 3482 |
| 201393_s_at | insulin-like growth factor 2 receptor | <i>IGF2R</i> | 3482 |
| 203851_at | insulin-like growth factor binding protein 6 | <i>IGFBP6</i> | 3489 |
| 201163_s_at | insulin-like growth factor binding protein 7 | <i>IGFBP7</i> | 3490 |
| 211693_at | immunoglobulin heavy constant alpha 1 | <i>IGHA1</i> | 3500 |
| 212827_at | immunoglobulin heavy constant mu | <i>IGHM</i> | 3507 |
| 31861_at | immunoglobulin mu binding protein 2 | <i>IGHMBP2</i> | 3508 |
| 214669_x_at | Immunoglobulin kappa constant | <i>IGKC</i> | 3514 |
| 221651_x_at | immunoglobulin kappa constant /// immunoglobulin kappa variable 1-5 /// immr | <i>IGKC /// IGKV1-5 //</i> | 3514 /// 508 |
| 221671_x_at | immunoglobulin kappa constant /// immunoglobulin kappa variable 1-5 /// immr | <i>IGKC /// IGKV1-5 //</i> | 3514 /// 508 |
| 214677_x_at | immunoglobulin lambda locus /// immunoglobulin lambda variable 4-3 /// imm | <i>IGL@ /// IGLJ3 ///</i> | 3535 |
| 215121_x_at | immunoglobulin lambda locus /// immunoglobulin lambda variable 4-3 /// imm | <i>IGL@ /// IGLV2-14</i> | 28815 /// 38 |
| 1556579_s_at | immunoglobulin superfamily, member 10 | <i>IGSF10</i> | 285313 |
| 207167_at | immunoglobulin superfamily, member 2 | <i>IGSF2</i> | 9398 |
| 206420_at | immunoglobulin superfamily, member 6 | <i>IGSF6</i> | 10261 |
| 225025_at | immunoglobulin superfamily, member 8 | <i>IGSF8</i> | 93185 |
| 218192_at | inositol hexaphosphate kinase 2 | <i>IHPK2</i> | 51447 |
| 200066_at | IK cytokine, down-regulator of HLA II | <i>IK</i> | 3550 |
| 202491_s_at | inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-as | <i>IKBKAP</i> | 8518 |
| 227295_at | IKK interacting protein | <i>IKIP</i> | 121457 |
| 235202_x_at | IKK interacting protein | <i>IKIP</i> | 121457 |
| 236249_at | IKK interacting protein | <i>IKIP</i> | 121457 |
| 220704_at | IKAROS family zinc finger 1 (Ikaros) | <i>IKZF1</i> | 10320 |
| 231929_at | IKAROS family zinc finger 2 (Helios) | <i>IKZF2</i> | 22807 |
| 209575_at | interleukin 10 receptor, beta | <i>IL10RB</i> | 3588 |
| 1552584_at | interleukin 12 receptor, beta 1 | <i>IL12RB1</i> | 3594 |
| 201888_s_at | interleukin 13 receptor, alpha 1 | <i>IL13RA1</i> | 3597 |
| 211612_s_at | interleukin 13 receptor, alpha 1 | <i>IL13RA1</i> | 3597 |
| 210904_s_at | interleukin 13 receptor, alpha 1 | <i>IL13RA1</i> | 3597 |
| 205992_s_at | interleukin 15 | <i>IL15</i> | 3600 |
| 209828_s_at | interleukin 16 (lymphocyte chemoattractant factor) | <i>IL16</i> | 3603 |
| 222868_s_at | interleukin 18 binding protein | <i>IL18BP</i> | 10068 |
| 224283_x_at | interleukin 18 binding protein | <i>IL18BP</i> | 10068 |
| 210118_s_at | interleukin 1, alpha | <i>IL1A</i> | 3552 |
| 39402_at | interleukin 1, beta | <i>IL1B</i> | 3553 |
| 205067_at | interleukin 1, beta | <i>IL1B</i> | 3553 |
| 202948_at | interleukin 1 receptor, type I | <i>IL1R1</i> | 3554 |
| 215561_s_at | interleukin 1 receptor, type I | <i>IL1R1</i> | 3554 |
| 205403_at | interleukin 1 receptor, type II | <i>IL1R2</i> | 7850 |
| 210233_at | interleukin 1 receptor accessory protein | <i>IL1RAP</i> | 3556 |
| 205227_at | interleukin 1 receptor accessory protein | <i>IL1RAP</i> | 3556 |
| 234066_at | Interleukin 1 receptor-like 1 | <i>IL1RL1</i> | 9173 |
| 207526_s_at | interleukin 1 receptor-like 1 | <i>IL1RL1</i> | 9173 |
| 212659_s_at | interleukin 1 receptor antagonist | <i>IL1RN</i> | 3557 |
| 212657_s_at | interleukin 1 receptor antagonist | <i>IL1RN</i> | 3557 |
| 221271_at | interleukin 21 | <i>IL21</i> | 59067 |

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|--------------|---|-------------------------------------|--------------|
| 205291_at | interleukin 2 receptor, beta | <i>IL2RB</i> | 3560 |
| 204116_at | interleukin 2 receptor, gamma (severe combined immunodeficiency) | <i>IL2RG</i> | 3561 |
| 217489_s_at | interleukin 6 receptor | <i>IL6R</i> | 3570 |
| 226218_at | interleukin 7 receptor | <i>IL7R</i> | 3575 |
| 205798_at | interleukin 7 receptor | <i>IL7R</i> | 3575 |
| 211506_s_at | interleukin 8 | <i>IL8</i> | 3576 |
| 217227_x_at | Interleukin 8 | <i>IL8</i> | 3535 |
| 221548_s_at | integrin-linked kinase-associated serine/threonine phosphatase 2C | <i>ILKAP</i> | 80895 |
| 229025_s_at | IMP1 inner mitochondrial membrane peptidase-like (S. cerevisiae) | <i>IMMP1L</i> | 196294 |
| 242361_at | Inner membrane protein, mitochondrial (mitofilin) | <i>IMMT</i> | 10989 |
| 203126_at | inositol(myo)-1(or 4)-monophosphatase 2 | <i>IMPA2</i> | 3613 |
| 218637_at | Impact homolog (mouse) | <i>IMPACT</i> | 55364 |
| 222698_s_at | Impact homolog (mouse) | <i>IMPACT</i> | 55364 |
| 218516_s_at | inositol monophosphatase domain containing 1 | <i>IMPAD1</i> | 54928 |
| 224744_at | inositol monophosphatase domain containing 1 | <i>IMPAD1</i> | 54928 |
| 210029_at | indoleamine-pyrrole 2,3 dioxygenase | <i>INDO</i> | 3620 |
| 1568638_a_at | indoleamine-pyrrole 2,3 dioxygenase-like 1 | <i>INDOL1</i> | 169355 |
| 209808_x_at | inhibitor of growth family, member 1 | <i>ING1</i> | 3621 |
| 208415_x_at | inhibitor of growth family, member 1 | <i>ING1</i> | 3621 |
| 210350_x_at | inhibitor of growth family, member 1 | <i>ING1</i> | 3621 |
| 205981_s_at | inhibitor of growth family, member 2 | <i>ING2</i> | 3622 |
| 205070_at | inhibitor of growth family, member 3 | <i>ING3</i> | 54556 |
| 228287_at | inhibitor of growth family, member 5 /// similar to inhibitor of growth family, m | <i>ING5 /// LOC72777 727773 ///</i> | ε |
| 202794_at | inositol polyphosphate-1-phosphatase | <i>INPP1</i> | 3628 |
| 205376_at | inositol polyphosphate-4-phosphatase, type II, 105kDa | <i>INPP4B</i> | 8821 |
| 203006_at | inositol polyphosphate-5-phosphatase, 40kDa | <i>INPP5A</i> | 3632 |
| 1554757_a_at | inositol polyphosphate-5-phosphatase, 40kDa | <i>INPP5A</i> | 3632 |
| 213804_at | inositol polyphosphate-5-phosphatase, 75kDa | <i>INPP5B</i> | 3633 |
| 203607_at | inositol polyphosphate-5-phosphatase F | <i>INPP5F</i> | 22876 |
| 201625_s_at | insulin induced gene 1 | <i>INSIG1</i> | 3638 |
| 201626_at | insulin induced gene 1 | <i>INSIG1</i> | 3638 |
| 201627_s_at | insulin induced gene 1 | <i>INSIG1</i> | 3638 |
| 209566_at | insulin induced gene 2 | <i>INSIG2</i> | 51141 |
| 213792_s_at | insulin receptor | <i>INSR</i> | 3643 |
| 229632_s_at | integrator complex subunit 10 | <i>INTS10</i> | 55174 |
| 225169_at | integrator complex subunit 4 | <i>INTS4</i> | 92105 |
| 235283_at | integrator complex subunit 6 | <i>INTS6</i> | 26512 |
| 1570173_at | integrator complex subunit 7 | <i>INTS7</i> | 25896 |
| 228946_at | inturned planar cell polarity effector homolog (Drosophila) | <i>INTU</i> | 27152 |
| 239878_at | inositol polyphosphate multikinase | <i>IPMK</i> | 253430 |
| 234304_s_at | importin 11 | <i>IPO11</i> | 51194 |
| 238488_at | importin 11 | <i>IPO11</i> | 51194 |
| 200995_at | Importin 7 | <i>IPO7</i> | 10527 |
| 200992_at | importin 7 | <i>IPO7</i> | 10527 |
| 200994_at | Importin 7 | <i>IPO7</i> | 10527 |
| 217885_at | importin 9 | <i>IPO9</i> | 55705 |
| 1554740_a_at | intracisternal A particle-promoted polypeptide | <i>IPP</i> | 3652 |
| 219843_at | intracisternal A particle-promoted polypeptide | <i>IPP</i> | 3652 |
| 221974_at | Imprinted in Prader-Willi syndrome | <i>IPW</i> | 3653 |
| 211707_s_at | IQ motif containing B1 | <i>IQCB1</i> | 9657 |
| 204202_at | IQ motif containing E | <i>IQCE</i> | 23288 |
| 213446_s_at | IQ motif containing GTPase activating protein 1 | <i>IQGAP1</i> | 8826 |
| 200791_s_at | IQ motif containing GTPase activating protein 1 | <i>IQGAP1</i> | 8826 |
| 210840_s_at | IQ motif containing GTPase activating protein 1 | <i>IQGAP1</i> | 8826 |
| 203474_at | IQ motif containing GTPase activating protein 2 | <i>IQGAP2</i> | 10788 |
| 1568924_a_at | IQ motif and ubiquitin domain containing | <i>IQUB</i> | 154865 |
| 224373_s_at | IQ motif and WD repeats 1 /// unc-5 homolog B (C. elegans) | <i>IQWD1 /// UNC5B</i> | 219699 /// ε |
| 224372_at | IQ motif and WD repeats 1 /// unc-5 homolog B (C. elegans) | <i>IQWD1 /// UNC5B</i> | 219699 /// ε |
| 201587_s_at | interleukin-1 receptor-associated kinase 1 | <i>IRAK1</i> | 3654 |
| 1555784_s_at | interleukin-1 receptor-associated kinase 1 | <i>IRAK1</i> | 3654 |
| 231779_at | interleukin-1 receptor-associated kinase 2 | <i>IRAK2</i> | 3656 |
| 1553740_a_at | interleukin-1 receptor-associated kinase 2 | <i>IRAK2</i> | 3656 |
| 220034_at | interleukin-1 receptor-associated kinase 3 | <i>IRAK3</i> | 11213 |

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|--------------|--|-------------------------|---------------|
| 1568830_at | Interleukin-1 receptor-associated kinase 3 | <i>IRAK3</i> | 11213 |
| 214666_x_at | iron-responsive element binding protein 2 | <i>IREB2</i> | 3658 |
| 203275_at | interferon regulatory factor 2 | <i>IRF2</i> | 3660 |
| 224571_at | interferon regulatory factor 2 binding protein 2 | <i>IRF2BP2</i> | 359948 |
| 224569_s_at | interferon regulatory factor 2 binding protein 2 | <i>IRF2BP2</i> | 359948 |
| 224572_s_at | interferon regulatory factor 2 binding protein 2 | <i>IRF2BP2</i> | 359948 |
| 224570_s_at | interferon regulatory factor 2 binding protein 2 | <i>IRF2BP2</i> | 359948 |
| 202597_at | interferon regulatory factor 6 | <i>IRF6</i> | 3664 |
| 209184_s_at | insulin receptor substrate 2 | <i>IRS2</i> | 8660 |
| 209185_s_at | insulin receptor substrate 2 | <i>IRS2</i> | 8660 |
| 207403_at | insulin receptor substrate 4 | <i>IRS4</i> | 8471 |
| 209075_s_at | iron-sulfur cluster scaffold homolog (E. coli) | <i>ISCU</i> | 23479 |
| 205483_s_at | ISG15 ubiquitin-like modifier | <i>ISG15</i> | 9636 |
| 33304_at | interferon stimulated exonuclease gene 20kDa | <i>ISG20</i> | 3669 |
| 204698_at | interferon stimulated exonuclease gene 20kDa | <i>ISG20</i> | 3669 |
| 208114_s_at | interferon stimulated exonuclease gene 20kDa-like 2 | <i>ISG20L2</i> | 81875 |
| 212766_s_at | interferon stimulated exonuclease gene 20kDa-like 2 | <i>ISG20L2</i> | 81875 |
| 220788_s_at | interferon-stimulated transcription factor 3, gamma 48kDa /// ring finger protei | <i>ISGF3G /// RNF31</i> | 10379 /// 5' |
| 206104_at | ISL LIM homeobox 1 | <i>ISL1</i> | 3670 |
| 218170_at | isochorismatase domain containing 1 | <i>ISOC1</i> | 51015 |
| 223831_x_at | ISY1 splicing factor homolog (S. cerevisiae) | <i>ISY1</i> | 57461 |
| 223428_s_at | ISY1 splicing factor homolog (S. cerevisiae) | <i>ISY1</i> | 57461 |
| 225632_s_at | ISY1 splicing factor homolog (S. cerevisiae) /// RAB43, member RAS oncogene fa | <i>ISY1 /// RAB43</i> | 339122 /// 5' |
| 209744_x_at | itchy homolog E3 ubiquitin protein ligase (mouse) | <i>ITCH</i> | 83737 |
| 209743_s_at | itchy homolog E3 ubiquitin protein ligase (mouse) | <i>ITCH</i> | 83737 |
| 217094_s_at | itchy homolog E3 ubiquitin protein ligase (mouse) | <i>ITCH</i> | 83737 |
| 239101_at | itchy homolog E3 ubiquitin protein ligase (mouse) | <i>ITCH</i> | 83737 |
| 239044_at | Integrin alpha FG-GAP repeat containing 1 | <i>ITFG1</i> | 81533 |
| 221449_s_at | integrin alpha FG-GAP repeat containing 1 | <i>ITFG1</i> | 81533 |
| 213416_at | integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor) | <i>ITGA4</i> | 3676 |
| 205884_at | integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor) | <i>ITGA4</i> | 3676 |
| 205885_s_at | integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor) | <i>ITGA4</i> | 3676 |
| 201656_at | integrin, alpha 6 | <i>ITGA6</i> | 3655 |
| 227297_at | integrin, alpha 9 | <i>ITGA9</i> | 3680 |
| 213475_s_at | integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen | <i>ITGAL</i> | 3683 |
| 1554240_a_at | integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen | <i>ITGAL</i> | 3683 |
| 205786_s_at | integrin, alpha M (complement component 3 receptor 3 subunit) | <i>ITGAM</i> | 3684 |
| 202351_at | integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51) | <i>ITGAV</i> | 3685 |
| 203336_s_at | integrin beta 1 binding protein 1 | <i>ITGB1BP1</i> | 9270 |
| 216261_at | integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61) | <i>ITGB3</i> | 3690 |
| 205176_s_at | integrin beta 3 binding protein (beta3-endonexin) | <i>ITGB3BP</i> | 23421 |
| 205718_at | integrin, beta 7 | <i>ITGB7</i> | 3695 |
| 205816_at | integrin, beta 8 | <i>ITGB8</i> | 3696 |
| 211488_s_at | integrin, beta 8 | <i>ITGB8</i> | 3696 |
| 1557080_s_at | integrin, beta-like 1 (with EGF-like repeat domains) | <i>ITGBL1</i> | 9358 |
| 214927_at | integrin, beta-like 1 (with EGF-like repeat domains) | <i>ITGBL1</i> | 9358 |
| 242720_at | inter-alpha (globulin) inhibitor H4 (plasma Kallikrein-sensitive glycoprotein) | <i>ITIH4</i> | 3700 |
| 211339_s_at | IL2-inducible T-cell kinase | <i>ITK</i> | 3702 |
| 216944_s_at | inositol 1,4,5-triphosphate receptor, type 1 | <i>ITPR1</i> | 3708 |
| 203710_at | inositol 1,4,5-triphosphate receptor, type 1 | <i>ITPR1</i> | 3708 |
| 211323_s_at | inositol 1,4,5-triphosphate receptor, type 1 | <i>ITPR1</i> | 3708 |
| 202660_at | inositol 1,4,5-triphosphate receptor, type 2 | <i>ITPR2</i> | 3709 |
| 244235_at | influenza virus NS1A binding protein | <i>IVNS1ABP</i> | 10625 |
| 206245_s_at | influenza virus NS1A binding protein | <i>IVNS1ABP</i> | 10625 |
| 201363_s_at | influenza virus NS1A binding protein | <i>IVNS1ABP</i> | 10625 |
| 201362_at | influenza virus NS1A binding protein | <i>IVNS1ABP</i> | 10625 |
| 209099_x_at | jagged 1 (Alagille syndrome) | <i>JAG1</i> | 182 |
| 216268_s_at | jagged 1 (Alagille syndrome) | <i>JAG1</i> | 182 |
| 1552611_a_at | Janus kinase 1 (a protein tyrosine kinase) | <i>JAK1</i> | 3716 |
| 1552610_a_at | Janus kinase 1 (a protein tyrosine kinase) | <i>JAK1</i> | 3716 |
| 201648_at | Janus kinase 1 (a protein tyrosine kinase) | <i>JAK1</i> | 3716 |
| 205842_s_at | Janus kinase 2 (a protein tyrosine kinase) | <i>JAK2</i> | 3717 |
| 205889_s_at | janus kinase and microtubule interacting protein 2 | <i>JAKMIP2</i> | 9832 |

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|--------------|---|---------|-------------|
| 202040_s_at | jumonji, AT rich interactive domain 1A | JARID1A | 5927 |
| 201548_s_at | jumonji, AT rich interactive domain 1B | JARID1B | 10765 |
| 211202_s_at | jumonji, AT rich interactive domain 1B | JARID1B | 10765 |
| 201549_x_at | jumonji, AT rich interactive domain 1B | JARID1B | 10765 |
| 203298_s_at | jumonji, AT rich interactive domain 2 | JARID2 | 3720 |
| 203297_s_at | jumonji, AT rich interactive domain 2 | JARID2 | 3720 |
| 226267_at | jun dimerization protein 2 | JDP2 | 122953 |
| 225142_at | jumonji C domain-containing histone demethylase 1 homolog D (S. cerevisiae) | JHDM1D | 80853 |
| 221778_at | jumonji C domain-containing histone demethylase 1 homolog D (S. cerevisiae) | JHDM1D | 80853 |
| 212689_s_at | jumonji domain containing 1A | JMJD1A | 55818 |
| 221763_at | jumonji domain containing 1C | JMJD1C | 221037 |
| 241661_at | jumonji domain containing 1C | JMJD1C | 221037 |
| 224933_s_at | jumonji domain containing 1C | JMJD1C | 221037 |
| 203205_at | jumonji domain containing 2A | JMJD2A | 9682 |
| 235789_at | jumonji domain containing 2B | JMJD2B | 23030 |
| 212496_s_at | jumonji domain containing 2B | JMJD2B | 23030 |
| 212495_at | jumonji domain containing 2B | JMJD2B | 23030 |
| 212492_s_at | jumonji domain containing 2B | JMJD2B | 23030 |
| 215616_s_at | jumonji domain containing 2B | JMJD2B | 23030 |
| 209984_at | jumonji domain containing 2C | JMJD2C | 23081 |
| 1556493_a_at | jumonji domain containing 2C | JMJD2C | 23081 |
| 244385_at | Jumonji domain containing 2C | JMJD2C | 23081 |
| 214861_at | jumonji domain containing 2C | JMJD2C | 23081 |
| 239285_at | Jumonji domain containing 2C | JMJD2C | --- |
| 1556067_a_at | jumonji domain containing 3 | JMJD3 | 23135 |
| 213146_at | jumonji domain containing 3 | JMJD3 | 23135 |
| 41386_i_at | jumonji domain containing 3 | JMJD3 | 23135 |
| 1556066_at | jumonji domain containing 3 | JMJD3 | 23135 |
| 212722_s_at | jumonji domain containing 6 | JMJD6 | 23210 |
| 212723_at | jumonji domain containing 6 | JMJD6 | 23210 |
| 226352_at | junction-mediating and regulatory protein | JMY | 133746 |
| 241985_at | junction-mediating and regulatory protein | JMY | 133746 |
| 201751_at | Josephin domain containing 1 | JOSD1 | 9929 |
| 222728_s_at | Josephin domain containing 3 | JOSD3 | 79101 |
| 221580_s_at | Josephin domain containing 3 | JOSD3 | 79101 |
| 201464_x_at | jun oncogene | JUN | 3725 |
| 201466_s_at | jun oncogene | JUN | 3725 |
| 201473_at | jun B proto-oncogene | JUNB | 3726 |
| 203752_s_at | jun D proto-oncogene | JUND | 3727 |
| 203751_x_at | jun D proto-oncogene | JUND | 3727 |
| 200840_at | lysyl-tRNA synthetase | KARS | 3735 |
| 212447_at | kelch repeat and BTB (POZ) domain containing 2 | KBTBD2 | 25948 |
| 223584_s_at | kelch repeat and BTB (POZ) domain containing 2 | KBTBD2 | 25948 |
| 223585_x_at | kelch repeat and BTB (POZ) domain containing 2 | KBTBD2 | 25948 |
| 228777_at | kelch repeat and BTB (POZ) domain containing 3 | KBTBD3 | 143879 |
| 223765_s_at | kelch repeat and BTB (POZ) domain containing 4 | KBTBD4 | 55709 |
| 226479_at | kelch repeat and BTB (POZ) domain containing 6 | KBTBD6 | 89890 |
| 223412_at | kelch repeat and BTB (POZ) domain containing 7 | KBTBD7 | 84078 |
| 239835_at | kelch repeat and BTB (POZ) domain containing 8 | KBTBD8 | 84541 |
| 222471_s_at | potassium channel modulatory factor 1 | KCMF1 | 56888 |
| 242887_at | potassium channel modulatory factor 1 | KCMF1 | 56888 |
| 217938_s_at | potassium channel modulatory factor 1 | KCMF1 | 56888 |
| 203402_at | potassium voltage-gated channel, shaker-related subfamily, beta member 2 | KCNAB2 | 8514 |
| 211791_s_at | potassium voltage-gated channel, shaker-related subfamily, beta member 2 | KCNAB2 | 8514 |
| 207103_at | potassium voltage-gated channel, Shal-related subfamily, member 2 | KCND2 | 3751 |
| 222922_at | potassium voltage-gated channel, Isk-related family, member 3 | KCNE3 | 10008 |
| 222923_s_at | potassium voltage-gated channel, Isk-related family, member 3 | KCNE3 | 10008 |
| 224099_at | potassium voltage-gated channel, subfamily H (eag-related), member 7 | KCNH7 | 90134 |
| 238428_at | potassium inwardly-rectifying channel, subfamily J, member 15 | KCNJ15 | 100131955 , |
| 211806_s_at | potassium inwardly-rectifying channel, subfamily J, member 15 | KCNJ15 | 3772 |
| 210119_at | potassium inwardly-rectifying channel, subfamily J, member 15 | KCNJ15 | 3772 |
| 206765_at | potassium inwardly-rectifying channel, subfamily J, member 2 | KCNJ2 | 3759 |
| 204679_at | potassium channel, subfamily K, member 1 | KCNK1 | 3775 |

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|--------------|--|------------------|--------------|
| 223823_at | potassium large conductance calcium-activated channel, subfamily M, beta mer | <i>KCNMB2</i> | 10242 |
| 204487_s_at | potassium voltage-gated channel, KQT-like subfamily, member 1 | <i>KCNQ1</i> | 3784 |
| 234103_at | Potassium channel, subfamily T, member 2 | <i>KCNT2</i> | 343450 |
| 244455_at | potassium channel, subfamily T, member 2 | <i>KCNT2</i> | 343450 |
| 235857_at | potassium channel tetramerisation domain containing 11 | <i>KCTD11</i> | 147040 |
| 212192_at | potassium channel tetramerisation domain containing 12 | <i>KCTD12</i> | 115207 |
| 212188_at | potassium channel tetramerisation domain containing 12 | <i>KCTD12</i> | 115207 |
| 45653_at | potassium channel tetramerisation domain containing 13 | <i>KCTD13</i> | 253980 |
| 233234_at | potassium channel tetramerisation domain containing 16 | <i>KCTD16</i> | 57528 |
| 226493_at | potassium channel tetramerisation domain containing 18 | <i>KCTD18</i> | 130535 |
| 228299_at | Potassium channel tetramerisation domain containing 20 | <i>KCTD20</i> | 222658 |
| 223176_at | potassium channel tetramerisation domain containing 20 | <i>KCTD20</i> | 222658 |
| 229873_at | potassium channel tetramerisation domain containing 21 | <i>KCTD21</i> | 283219 |
| 217894_at | potassium channel tetramerisation domain containing 3 | <i>KCTD3</i> | 51133 |
| 238001_at | potassium channel tetramerisation domain containing 6 | <i>KCTD6</i> | 200845 |
| 224316_at | potassium channel tetramerisation domain containing 9 | <i>KCTD9</i> | 54793 |
| 200922_at | KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 1 | <i>KDEL1</i> | 10945 |
| 200698_at | KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2 | <i>KDEL2</i> | 11014 |
| 200700_s_at | KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2 | <i>KDEL2</i> | 11014 |
| 202417_at | kelch-like ECH-associated protein 1 | <i>KEAP1</i> | 9817 |
| 203143_s_at | KIAA0040 | <i>KIAA0040</i> | 9674 |
| 212380_at | KIAA0082 | <i>KIAA0082</i> | 23070 |
| 202503_s_at | KIAA0101 | <i>KIAA0101</i> | 9768 |
| 211713_x_at | KIAA0101 | <i>KIAA0101</i> | 9768 |
| 212149_at | KIAA0143 protein | <i>KIAA0143</i> | 23167 |
| 212523_s_at | KIAA0146 | <i>KIAA0146</i> | 23514 |
| 228325_at | KIAA0146 | <i>KIAA0146</i> | 23514 |
| 200616_s_at | KIAA0152 | <i>KIAA0152</i> | 9761 |
| 212837_at | KIAA0157 | <i>KIAA0157</i> | 23172 |
| 200851_s_at | KIAA0174 | <i>KIAA0174</i> | 9798 |
| 232988_at | KIAA0182 | <i>KIAA0182</i> | 23199 |
| 202650_s_at | KIAA0195 | <i>KIAA0195</i> | 9772 |
| 201985_at | KIAA0196 | <i>KIAA0196</i> | 9897 |
| 212441_at | KIAA0232 | <i>KIAA0232</i> | 9778 |
| 212474_at | KIAA0241 | <i>KIAA0241</i> | 23080 |
| 212471_at | KIAA0241 | <i>KIAA0241</i> | 23080 |
| 202181_at | KIAA0247 | <i>KIAA0247</i> | 9766 |
| 210111_s_at | KIAA0265 protein | <i>KIAA0265</i> | 23008 |
| 36612_at | KIAA0280 | <i>KIAA0280</i> | 23201 |
| 212357_at | KIAA0280 | <i>KIAA0280</i> | 23201 |
| 212619_at | KIAA0286 protein | <i>KIAA0286</i> | 23306 |
| 222468_at | KIAA0319-like | <i>KIAA0319L</i> | 79932 |
| 212355_at | KIAA0323 | <i>KIAA0323</i> | 23351 |
| 204308_s_at | KIAA0329 | <i>KIAA0329</i> | 9895 |
| 236368_at | KIAA0368 | <i>KIAA0368</i> | 23392 |
| 203049_s_at | KIAA0372 | <i>KIAA0372</i> | 9652 |
| 203048_s_at | KIAA0372 | <i>KIAA0372</i> | 9652 |
| 203171_s_at | KIAA0409 | <i>KIAA0409</i> | 23378 |
| 209913_x_at | KIAA0415 | <i>KIAA0415</i> | 9907 |
| 209912_s_at | KIAA0415 | <i>KIAA0415</i> | 9907 |
| 202386_s_at | KIAA0430 | <i>KIAA0430</i> | 9665 |
| 212553_at | KIAA0460 | <i>KIAA0460</i> | 23248 |
| 214295_at | KIAA0485 protein | <i>KIAA0485</i> | 57235 |
| 1559023_a_at | KIAA0494 | <i>KIAA0494</i> | 9813 |
| 213340_s_at | KIAA0495 | <i>KIAA0495</i> | 57212 |
| 204074_s_at | KIAA0562 | <i>KIAA0562</i> | 9731 |
| 204075_s_at | KIAA0562 | <i>KIAA0562</i> | 9731 |
| 37232_at | KIAA0586 | <i>KIAA0586</i> | 9786 |
| 209021_x_at | KIAA0652 | <i>KIAA0652</i> | 9776 |
| 213118_at | KIAA0701 protein | <i>KIAA0701</i> | 23074 |
| 1554292_a_at | KIAA0701 protein | <i>KIAA0701</i> | 23074 |
| 213120_at | KIAA0701 protein | <i>KIAA0701</i> | 23074 |
| 212314_at | KIAA0746 protein | <i>KIAA0746</i> | 23231 /// 34 |

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|--------------|--|-------------------------------|--------------|
| 212311_at | KIAA0746 protein | KIAA0746 | 23231 /// 34 |
| 230232_at | KIAA0746 protein | KIAA0746 | 23231 |
| 235353_at | KIAA0746 protein | KIAA0746 | 23231 |
| 219724_s_at | KIAA0748 | KIAA0748 | 9840 |
| 204711_at | KIAA0753 | KIAA0753 | 9851 |
| 212634_at | KIAA0776 | KIAA0776 | 23376 |
| 213358_at | KIAA0802 | KIAA0802 | 23255 |
| 36888_at | KIAA0841 | KIAA0841 | 23354 |
| 235048_at | KIAA0888 protein | KIAA0888 | 26049 |
| 213954_at | KIAA0888 protein | KIAA0888 | 26049 |
| 212359_s_at | KIAA0913 | KIAA0913 | 23053 |
| 209654_at | KIAA0947 protein | KIAA0947 | 23379 |
| 213463_s_at | KIAA0974 | KIAA0974 | 317662 |
| 213896_x_at | KIAA0974 | KIAA0974 | 317662 |
| 213034_at | KIAA0999 protein | KIAA0999 | 23387 |
| 204156_at | KIAA0999 protein | KIAA0999 | 23387 |
| 204157_s_at | KIAA0999 protein | KIAA0999 | 23387 |
| 1554929_at | KIAA0999 protein | KIAA0999 | 23387 |
| 204155_s_at | KIAA0999 protein | KIAA0999 | 23387 |
| 206006_s_at | KIAA1009 | KIAA1009 | 22832 |
| 206005_s_at | KIAA1009 | KIAA1009 | 22832 |
| 213478_at | kazrin | KIAA1026 | 23254 |
| 212795_at | KIAA1033 | KIAA1033 | 23325 |
| 212794_s_at | KIAA1033 | KIAA1033 | 23325 |
| 215936_s_at | KIAA1033 | KIAA1033 | 23325 |
| 1558293_at | KIAA1107 | KIAA1107 | 23285 |
| 214098_at | KIAA1107 | KIAA1107 | 23285 |
| 233096_at | KIAA1109 | KIAA1109 | 84162 |
| 1553793_a_at | KIAA1109 | KIAA1109 | 84162 |
| 233227_at | KIAA1109 | KIAA1109 | 84162 |
| 1554131_at | KIAA1128 | KIAA1128 | 54462 |
| 209378_s_at | KIAA1128 | KIAA1128 | 54462 |
| 1554132_a_at | KIAA1128 | KIAA1128 | 54462 |
| 227493_s_at | KIAA1143 | KIAA1143 | 57456 |
| 223162_s_at | KIAA1147 | KIAA1147 | 57189 |
| 1562063_x_at | neuroblastoma breakpoint family, member 1 /// neuroblastoma breakpoint fam | KIAA1245 /// LOC7 100132406 , | |
| 1562062_at | neuroblastoma breakpoint family, member 1 /// neuroblastoma breakpoint fam | KIAA1245 /// LOC7 100132406 , | |
| 214693_x_at | neuroblastoma breakpoint family, member 14 /// neuroblastoma breakpoint fa | KIAA1245 /// LOC7 100132406 , | |
| 212453_at | KIAA1279 | KIAA1279 | 26128 |
| 221874_at | KIAA1324 | KIAA1324 | 57535 |
| 235301_at | KIAA1324-like | KIAA1324L | 222223 |
| 223256_at | KIAA1333 | KIAA1333 | 55632 |
| 223255_at | KIAA1333 | KIAA1333 | 55632 |
| 223258_s_at | KIAA1333 | KIAA1333 | 55632 |
| 225327_at | KIAA1370 | KIAA1370 | 56204 |
| 235956_at | KIAA1377 | KIAA1377 | 57562 |
| 232166_at | KIAA1377 | KIAA1377 | 57562 |
| 226254_s_at | KIAA1430 | KIAA1430 | 57587 |
| 225924_at | KIAA1450 protein | KIAA1450 | 57600 |
| 225922_at | KIAA1450 protein | KIAA1450 | 57600 |
| 226460_at | KIAA1450 protein | KIAA1450 | 57600 |
| 225506_at | KIAA1468 | KIAA1468 | 57614 |
| 227091_at | KIAA1505 protein | KIAA1505 | 57639 |
| 231855_at | KIAA1524 | KIAA1524 | 57650 |
| 1553810_a_at | KIAA1524 | KIAA1524 | 57650 |
| 233893_s_at | KIAA1530 protein | KIAA1530 | 57654 |
| 1555107_a_at | KIAA1530 protein | KIAA1530 | 57654 |
| 234952_s_at | CTD-binding SR-like protein rA9 | KIAA1542 | 57661 |
| 225703_at | KIAA1545 protein | KIAA1545 | 57666 |
| 1569385_s_at | KIAA1546 | KIAA1546 | 54790 |
| 235461_at | KIAA1546 | KIAA1546 | 54790 |
| 231869_at | KIAA1586 | KIAA1586 | 57691 |
| 241347_at | KIAA1618 | KIAA1618 | 57714 |

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|--------------|--|--------------------|--------|
| 227638_at | KIAA1632 | KIAA1632 | 57724 |
| 214723_x_at | KIAA1641 | KIAA1641 | 57730 |
| 220940_at | KIAA1641 | KIAA1641 | 57730 |
| 244189_at | KIAA1648 protein | KIAA1648 | 284900 |
| 1556060_a_at | KIAA1702 protein | KIAA1702 | 80822 |
| 229078_s_at | KIAA1704 | KIAA1704 | 55425 |
| 229891_x_at | KIAA1704 | KIAA1704 | 55425 |
| 223606_x_at | KIAA1704 | KIAA1704 | 55425 |
| 241426_at | KIAA1712 | KIAA1712 | 80817 |
| 228334_x_at | KIAA1712 | KIAA1712 | 80817 |
| 225717_at | KIAA1715 | KIAA1715 | 80856 |
| 229173_at | KIAA1715 | KIAA1715 | 80856 |
| 226909_at | KIAA1729 protein | KIAA1729 | 85460 |
| 1569302_at | KIAA1731 | KIAA1731 | 85459 |
| 225623_at | KIAA1737 | KIAA1737 | 85457 |
| 216807_at | KIAA1751 | KIAA1751 | 85452 |
| 225582_at | KIAA1754 | KIAA1754 | 85450 |
| 233977_at | KIAA1772 | KIAA1772 | 80000 |
| 226703_at | KIAA1787 protein | KIAA1787 | 84461 |
| 228565_at | mixed lineage kinase 4 | KIAA1804 | 84451 |
| 227778_at | hypothetical protein KIAA1833 | KIAA1833 | 727957 |
| 243539_at | KIAA1841 | KIAA1841 | 84542 |
| 230441_at | KIAA1909 protein | KIAA1909 | 153478 |
| 238828_at | KIAA1919 | KIAA1919 | 91749 |
| 227370_at | KIAA1946 | KIAA1946 | 165215 |
| 242762_s_at | KIAA1946 | KIAA1946 | 165215 |
| 238564_at | KIAA1946 | KIAA1946 | 165215 |
| 224927_at | KIAA1949 | KIAA1949 | 170954 |
| 224706_at | KIAA2013 | KIAA2013 | 90231 |
| 224708_at | KIAA2013 | KIAA2013 | 90231 |
| 227433_at | KIAA2018 | KIAA2018 | 205717 |
| 206364_at | kinesin family member 14 | KIF14 | 9928 |
| 236641_at | kinesin family member 14 | KIF14 | 9928 |
| 219306_at | kinesin family member 15 | KIF15 | 56992 |
| 221258_s_at | kinesin family member 18A | KIF18A | 81930 |
| 203850_s_at | kinesin family member 1A | KIF1A | 547 |
| 226003_at | kinesin family member 21A | KIF21A | 55605 |
| 204411_at | kinesin family member 21B | KIF21B | 23046 |
| 216969_s_at | kinesin family member 22 /// kinesin-like DNA-binding protein pseudogene | KIF22 /// LOC7280: | 3835 |
| 244427_at | Kinesin family member 23 | KIF23 | 9493 |
| 226480_at | Kinesin heavy chain member 2A | KIF2A | --- |
| 213598_at | Kinesin heavy chain member 2A | KIF2A | --- |
| 209408_at | kinesin family member 2C | KIF2C | 11004 |
| 211519_s_at | kinesin family member 2C | KIF2C | 11004 |
| 228680_at | kinesin family member 3A | KIF3A | 11127 |
| 213623_at | kinesin family member 3A | KIF3A | 11127 |
| 225205_at | kinesin family member 3B | KIF3B | 9371 |
| 201991_s_at | kinesin family member 5B | KIF5B | 3799 |
| 201992_s_at | kinesin family member 5B | KIF5B | 3799 |
| 232695_at | kinesin family member 6 | KIF6 | 221458 |
| 203333_at | kinesin-associated protein 3 | KIFAP3 | 22920 |
| 242517_at | KISS1 receptor | KISS1R | 84634 |
| 205051_s_at | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog | KIT | 3815 |
| 212878_s_at | kinesin light chain 1 | KLC1 | 3831 |
| 212877_at | kinesin light chain 1 | KLC1 | 3831 |
| 202393_s_at | Kruppel-like factor 10 | KLF10 | 7071 |
| 225390_s_at | Kruppel-like factor 13 | KLF13 | 51621 |
| 219878_s_at | Kruppel-like factor 13 | KLF13 | 51621 |
| 225140_at | Kruppel-like factor 3 (basic) | KLF3 | 51274 |
| 219657_s_at | Kruppel-like factor 3 (basic) | KLF3 | 51274 |
| 209211_at | Kruppel-like factor 5 (intestinal) | KLF5 | 688 |
| 1555832_s_at | Kruppel-like factor 6 | KLF6 | 1316 |
| 208960_s_at | Kruppel-like factor 6 | KLF6 | 1316 |

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|--------------|---|---------------------------------------|--------------|
| 224606_at | Kruppel-like factor 6 | <i>KLFB</i> | 1316 |
| 208961_s_at | Kruppel-like factor 6 | <i>KLFB</i> | 1316 |
| 1552733_at | kelch domain containing 1 | <i>KLHDC1</i> | 122773 |
| 214383_x_at | kelch domain containing 3 | <i>KLHDC3</i> | 116138 |
| 232171_x_at | kelch domain containing 4 | <i>KLHDC4</i> | 54758 |
| 225961_at | kelch domain containing 5 | <i>KLHDC5</i> | 57542 |
| 225732_at | kelch domain containing 5 | <i>KLHDC5</i> | 57542 |
| 225068_at | kelch-like 12 (Drosophila) | <i>KLHL12</i> | 59349 |
| 228377_at | kelch-like 14 (Drosophila) | <i>KLHL14</i> | 57565 |
| 212882_at | kelch-like 18 (Drosophila) | <i>KLHL18</i> | 23276 |
| 204176_at | kelch-like 20 (Drosophila) | <i>KLHL20</i> | 27252 |
| 204177_s_at | kelch-like 20 (Drosophila) | <i>KLHL20</i> | 27252 |
| 203068_at | kelch-like 21 (Drosophila) | <i>KLHL21</i> | 9903 |
| 221985_at | kelch-like 24 (Drosophila) | <i>KLHL24</i> | 54800 |
| 226158_at | kelch-like 24 (Drosophila) | <i>KLHL24</i> | 54800 |
| 221986_s_at | kelch-like 24 (Drosophila) | <i>KLHL24</i> | 54800 |
| 242088_at | kelch-like 24 (Drosophila) | <i>KLHL24</i> | 54800 |
| 1560396_at | kelch-like 6 (Drosophila) | <i>KLHL6</i> | 89857 |
| 1555275_a_at | kelch-like 6 (Drosophila) | <i>KLHL6</i> | 89857 |
| 1560397_s_at | kelch-like 6 (Drosophila) | <i>KLHL6</i> | 89857 |
| 223250_at | kelch-like 7 (Drosophila) | <i>KLHL7</i> | 55975 |
| 1561206_at | kelch-like 8 (Drosophila) | <i>KLHL8</i> | 57563 |
| 213233_s_at | kelch-like 9 (Drosophila) | <i>KLHL9</i> | 55958 |
| 207229_at | killer cell lectin-like receptor subfamily A, member 1 | <i>KLRA1</i> | 10748 |
| 214470_at | killer cell lectin-like receptor subfamily B, member 1 | <i>KLRB1</i> | 3820 |
| 206785_s_at | killer cell lectin-like receptor subfamily C, member 1 /// killer cell lectin-like rece | <i>KLRC1 /// KLRC2</i> | 3821 /// 382 |
| 210690_at | killer cell lectin-like receptor subfamily C, member 4 | <i>KLRC4</i> | 8302 |
| 1555691_a_at | killer cell lectin-like receptor subfamily C, member 4 /// killer cell lectin-like rece | <i>KLRC4 /// KLRK1</i> | 22914 /// 82 |
| 220646_s_at | killer cell lectin-like receptor subfamily F, member 1 | <i>KLRF1</i> | 51348 |
| 205821_at | killer cell lectin-like receptor subfamily K, member 1 | <i>KLRK1</i> | 22914 |
| 205307_s_at | kynurenine 3-monooxygenase (kynurenine 3-hydroxylase) | <i>KMO</i> | 8564 |
| 202059_s_at | karyopherin alpha 1 (importin alpha 5) | <i>KPNA1</i> | 3836 |
| 213741_s_at | karyopherin alpha 1 (importin alpha 5) | <i>KPNA1</i> | 3836 |
| 202058_s_at | karyopherin alpha 1 (importin alpha 5) | <i>KPNA1</i> | 3836 |
| 201088_at | karyopherin alpha 2 (RAG cohort 1, importin alpha 1) | <i>KPNA2</i> | 3838 /// 728 |
| 211762_s_at | karyopherin alpha 2 (RAG cohort 1, importin alpha 1) | <i>KPNA2</i> | 3838 /// 728 |
| 225267_at | karyopherin alpha 4 (importin alpha 3) | <i>KPNA4</i> | 3840 |
| 209653_at | karyopherin alpha 4 (importin alpha 3) | <i>KPNA4</i> | 3840 |
| 206241_at | karyopherin alpha 5 (importin alpha 6) | <i>KPNA5</i> | 3841 |
| 213574_s_at | Karyopherin (importin) beta 1 | <i>KPNB1</i> | --- |
| 213507_s_at | karyopherin (importin) beta 1 | <i>KPNB1</i> | 3837 |
| 208975_s_at | karyopherin (importin) beta 1 | <i>KPNB1</i> | 3837 |
| 217027_x_at | karyopherin (importin) beta 1 | <i>KPNB1</i> | 3837 |
| 229785_at | KRIT1, ankyrin repeat containing | <i>KRIT1</i> | 889 |
| 203202_at | KRR1, small subunit (SSU) processome component, homolog (yeast) | <i>KRR1</i> | 11103 |
| 232441_at | KRR1, small subunit (SSU) processome component, homolog (yeast) | <i>KRR1</i> | 11103 |
| 209008_x_at | keratin 8 | <i>KRT8</i> | 3856 |
| 222060_at | keratin 8 pseudogene 12 | <i>KRT8P12</i> | 90133 |
| 1562681_at | Keratin associated protein 5-2 | <i>KRTAP5-2</i> | 338651 |
| 224885_s_at | keratinocyte associated protein 2 | <i>KRTCAP2</i> | 200185 |
| 226943_at | Keratin, hair, basic, 5 | <i>KRTHB5</i> | 728568 |
| 201001_s_at | ubiquitin-conjugating enzyme E2 variant 1 | <i>Kua-UEV /// UBE2\ 387522 /// ;</i> | |
| 213837_at | l(3)mbt-like (Drosophila) | <i>L3MBTL</i> | 26013 |
| 210306_at | l(3)mbt-like (Drosophila) | <i>L3MBTL</i> | 26013 |
| 1552490_at | lactation elevated 1 | <i>LACE1</i> | 246269 |
| 226354_at | lactamase, beta | <i>LACTB</i> | 114294 |
| 1552486_s_at | lactamase, beta | <i>LACTB</i> | 114294 |
| 219061_s_at | L antigen family, member 3 | <i>LAGE3</i> | 8270 |
| 210644_s_at | leukocyte-associated immunoglobulin-like receptor 1 | <i>LAIR1</i> | 3903 |
| 209270_at | laminin, beta 3 | <i>LAMB3</i> | 3914 |
| 215516_at | laminin, beta 4 | <i>LAMB4</i> | 22798 |
| 200821_at | lysosomal-associated membrane protein 2 | <i>LAMP2</i> | 3920 |
| 226671_at | Lysosomal-associated membrane protein 2 | <i>LAMP2</i> | 3920 |

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|--------------|--|-----------------|--------|
| 203041_s_at | lysosomal-associated membrane protein 2 | <i>LAMP2</i> | 3920 |
| 203042_at | lysosomal-associated membrane protein 2 | <i>LAMP2</i> | 3920 |
| 217933_s_at | leucine aminopeptidase 3 | <i>LAP3</i> | 51056 |
| 200673_at | lysosomal-associated protein transmembrane 4 alpha | <i>LAPTM4A</i> | 9741 |
| 214039_s_at | lysosomal associated protein transmembrane 4 beta | <i>LAPTM4B</i> | 55353 |
| 201720_s_at | lysosomal associated multispinning membrane protein 5 | <i>LAPTM5</i> | 7805 |
| 231824_at | La ribonucleoprotein domain family, member 2 | <i>LARP2</i> | 55132 |
| 212714_at | La ribonucleoprotein domain family, member 4 | <i>LARP4</i> | 113251 |
| 214155_s_at | La ribonucleoprotein domain family, member 4 | <i>LARP4</i> | 113251 |
| 215246_at | La ribonucleoprotein domain family, member 7 | <i>LARP7</i> | 51574 |
| 241385_at | La ribonucleoprotein domain family, member 7 | <i>LARP7</i> | 51574 |
| 217810_x_at | leucyl-tRNA synthetase | <i>LARS</i> | 51520 |
| 222428_s_at | leucyl-tRNA synthetase | <i>LARS</i> | 51520 |
| 1554253_a_at | LAG1 homolog, ceramide synthase 3 | <i>LASS3</i> | 204219 |
| 212442_s_at | LAG1 homolog, ceramide synthase 6 | <i>LASS6</i> | 253782 |
| 212446_s_at | LAG1 homolog, ceramide synthase 6 | <i>LASS6</i> | 253782 |
| 235463_s_at | LAG1 homolog, ceramide synthase 6 | <i>LASS6</i> | 253782 |
| 227013_at | LATS, large tumor suppressor, homolog 2 (Drosophila) | <i>LATS2</i> | 26524 |
| 230348_at | LATS, large tumor suppressor, homolog 2 (Drosophila) | <i>LATS2</i> | 26524 |
| 213261_at | lupus brain antigen 1 | <i>LBA1</i> | 9881 |
| 221011_s_at | limb bud and heart development homolog (mouse) | <i>LBH</i> | 81606 |
| 244401_at | Leber congenital amaurosis 5 | <i>LCAS</i> | 167691 |
| 204891_s_at | lymphocyte-specific protein tyrosine kinase | <i>LCK</i> | 3932 |
| 221515_s_at | leucine carboxyl methyltransferase 1 | <i>LCMT1</i> | 51451 |
| 212531_at | lipocalin 2 (oncogene 24p3) | <i>LCN2</i> | 3934 |
| 232293_at | ligand dependent nuclear receptor corepressor-like | <i>LCORL</i> | 254251 |
| 208885_at | lymphocyte cytosolic protein 1 (L-plastin) | <i>LCP1</i> | 3936 |
| 244251_at | Lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76k | <i>LCP2</i> | 3937 |
| 205269_at | lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76k | <i>LCP2</i> | 3937 |
| 244556_at | Lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76k | <i>LCP2</i> | 3937 |
| 205270_s_at | lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76k | <i>LCP2</i> | 3937 |
| 244578_at | lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76k | <i>LCP2</i> | 3937 |
| 216887_s_at | LIM domain binding 3 | <i>LDB3</i> | 11155 |
| 200650_s_at | lactate dehydrogenase A | <i>LDHA</i> | 3939 |
| 213564_x_at | lactate dehydrogenase B | <i>LDHB</i> | 3945 |
| 201030_x_at | lactate dehydrogenase B | <i>LDHB</i> | 3945 |
| 207022_s_at | lactate dehydrogenase C | <i>LDHC</i> | 3948 |
| 207409_at | leukocyte cell-derived chemotaxin 2 | <i>LECT2</i> | 3950 |
| 1564776_at | leukocyte receptor cluster (LRC) member 10 | <i>LENG10</i> | --- |
| 211037_s_at | leukocyte receptor cluster (LRC) member 4 | <i>LENG4</i> | 79143 |
| 207092_at | leptin (obesity homolog, mouse) | <i>LEP</i> | 3952 |
| 209894_at | leptin receptor | <i>LEPR</i> | 3953 |
| 202377_at | leptin receptor overlapping transcript | <i>LEPROT</i> | --- |
| 202595_s_at | leptin receptor overlapping transcript-like 1 | <i>LEPROTL1</i> | 23484 |
| 228762_at | LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase | <i>LFNG</i> | 3955 |
| 201105_at | lectin, galactoside-binding, soluble, 1 (galectin 1) | <i>LGALS1</i> | 3956 |
| 208949_s_at | lectin, galactoside-binding, soluble, 3 | <i>LGALS3</i> | 3958 |
| 1557197_a_at | Lectin, galactoside-binding, soluble, 3 | <i>LGALS3</i> | 3958 |
| 208933_s_at | lectin, galactoside-binding, soluble, 8 (galectin 8) | <i>LGALS8</i> | 3964 |
| 208936_x_at | lectin, galactoside-binding, soluble, 8 (galectin 8) | <i>LGALS8</i> | 3964 |
| 208935_s_at | lectin, galactoside-binding, soluble, 8 (galectin 8) | <i>LGALS8</i> | 3964 |
| 208934_s_at | lectin, galactoside-binding, soluble, 8 (galectin 8) | <i>LGALS8</i> | 3964 |
| 210732_s_at | lectin, galactoside-binding, soluble, 8 (galectin 8) | <i>LGALS8</i> | 3964 |
| 210731_s_at | lectin, galactoside-binding, soluble, 8 (galectin 8) | <i>LGALS8</i> | 3964 |
| 203236_s_at | lectin, galactoside-binding, soluble, 9 (galectin 9) | <i>LGALS9</i> | 3965 |
| 231411_at | Lipoma HMGIC fusion partner | <i>LHFP</i> | 10186 |
| 236761_at | lipoma HMGIC fusion partner-like 3 | <i>LHFPL3</i> | 375612 |
| 1562736_at | LIM homeobox 9 | <i>LHX9</i> | 56956 |
| 205266_at | leukemia inhibitory factor (cholinergic differentiation factor) | <i>LIF</i> | 3976 |
| 225571_at | leukemia inhibitory factor receptor alpha | <i>LIFR</i> | 3977 |
| 227771_at | leukemia inhibitory factor receptor alpha | <i>LIFR</i> | 3977 |
| 210660_at | leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), memb | <i>LILRA1</i> | 11024 |
| 207872_s_at | leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), memb | <i>LILRA1</i> | 11024 |

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|--------------|--|---------------------|-----------------|
| 211101_x_at | leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), memb | <i>LILRA2</i> | 11027 |
| 211102_s_at | leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), memb | <i>LILRA2</i> | 11027 |
| 207857_at | leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), memb | <i>LILRA2</i> | 11027 |
| 211100_x_at | leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), memb | <i>LILRA2</i> | 11027 |
| 229937_x_at | Leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domai | <i>LILRB1</i> | 10859 |
| 211135_x_at | leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domain | <i>LILRB3</i> | 11025 |
| 214561_at | leukocyte immunoglobulin-like receptor pseudogene 2 | <i>LILRP2</i> | 79166 |
| 217892_s_at | LIM domain and actin binding 1 | <i>LIMA1</i> | 51474 |
| 222762_x_at | LIM domains containing 1 | <i>LIMD1</i> | 8994 |
| 218850_s_at | LIM domains containing 1 | <i>LIMD1</i> | 8994 |
| 218600_at | LIM domain containing 2 | <i>LIMD2</i> | 80774 |
| 202193_at | LIM domain kinase 2 | <i>LIMK2</i> | 3985 |
| 217475_s_at | LIM domain kinase 2 | <i>LIMK2</i> | 3985 |
| 210582_s_at | LIM domain kinase 2 | <i>LIMK2</i> | 3985 |
| 212687_at | LIM and senescent cell antigen-like domains 1 | <i>LIMS1</i> | 3987 |
| 207198_s_at | LIM and senescent cell antigen-like domains 1 | <i>LIMS1</i> | 3987 |
| 1570259_at | LIM and senescent cell antigen-like domains 1 | <i>LIMS1</i> | 3987 |
| 1566129_at | LIM and senescent cell antigen-like domains 1 | <i>LIMS1</i> | 3987 |
| 223800_s_at | LIM and senescent cell antigen-like domains 3 | <i>LIMS3</i> | 96626 |
| 213526_s_at | lin-37 homolog (C. elegans) | <i>LIN37</i> | 55957 |
| 231959_at | lin-52 homolog (C. elegans) | <i>LIN52</i> | 91750 |
| 240027_at | lin-7 homolog A (C. elegans) | <i>LIN7A</i> | 8825 |
| 206440_at | lin-7 homolog A (C. elegans) | <i>LIN7A</i> | 8825 |
| 201847_at | lipase A, lysosomal acid, cholesterol esterase (Wolman disease) | <i>LIPA</i> | 3988 |
| 200704_at | lipopolysaccharide-induced TNF factor | <i>LITAF</i> | 9516 |
| 200706_s_at | lipopolysaccharide-induced TNF factor | <i>LITAF</i> | 9516 |
| 200805_at | lectin, mannose-binding 2 | <i>LMAN2</i> | 10960 |
| 218191_s_at | LMBR1 domain containing 1 | <i>LMBRD1</i> | 55788 |
| 232893_at | LMBR1 domain containing 2 | <i>LMBRD2</i> | 92255 |
| 204249_s_at | LIM domain only 2 (rhombotin-like 1) | <i>LMO2</i> | 4005 |
| 209205_s_at | LIM domain only 4 | <i>LMO4</i> | 8543 |
| 1564469_at | leiomodlin 3 (fetal) | <i>LMOD3</i> | 56203 |
| 207904_s_at | leucyl/cystinyl aminopeptidase | <i>LNPEP</i> | 4012 |
| 231866_at | leucyl/cystinyl aminopeptidase | <i>LNPEP</i> | 4012 |
| 225176_at | leucyl/cystinyl aminopeptidase | <i>LNPEP</i> | --- |
| 223611_s_at | ligand of numb-protein X 1 | <i>LNX1</i> | 84708 |
| 236886_at | Unknown | <i>LOC100049716</i> | 100049716 |
| 228647_at | unknown | <i>LOC100049716</i> | 100049716 |
| 212178_s_at | POM121 membrane glycoprotein (rat) /// POM121 membrane glycoprotein (rat | <i>LOC100101267</i> | 100101267 , |
| 213360_s_at | POM121 membrane glycoprotein (rat) /// POM121 membrane glycoprotein (rat | <i>LOC100101267</i> | 100101267 , |
| 232190_x_at | hypothetical protein LOC115110 | <i>LOC115110</i> | 115110 |
| 224981_at | hypothetical protein BC017488 | <i>LOC124446</i> | 124446 |
| 1555988_a_at | hypothetical protein LOC126536 | <i>LOC126536</i> | 126536 |
| 217346_at | peptidylprolyl isomerase A (cyclophilin A) /// similar to peptidylprolyl isomerase | <i>LOC128192</i> | LOC128192 /// : |
| 226702_at | hypothetical protein LOC129607 | <i>LOC129607</i> | 129607 |
| 212017_at | p20 | <i>LOC130074</i> | 130074 |
| 229946_at | p20 | <i>LOC130074</i> | 130074 |
| 231504_at | hypothetical protein BC015395 | <i>LOC130940</i> | 130940 |
| 1564757_a_at | hypothetical protein BC015395 | <i>LOC130940</i> | 130940 |
| 238865_at | similar to poly(A) binding protein, cytoplasmic 4 (inducible form) | <i>LOC132430</i> | 132430 |
| 238903_at | hypothetical protein LOC137886 | <i>LOC137886</i> | 137886 |
| 1565644_at | Hypothetical protein LOC143286 | <i>LOC143286</i> | --- |
| 223845_at | hypothetical protein BC001437 | <i>LOC144305</i> | 144305 |
| 1564139_at | hypothetical protein LOC144571 | <i>LOC144571</i> | 144571 |
| 1556021_at | hypothetical protein LOC144874 | <i>LOC144874</i> | --- |
| 229073_at | Hypothetical protein LOC145786 | <i>LOC145786</i> | 145786 |
| 229178_at | hypothetical protein LOC145786 | <i>LOC145786</i> | 145786 |
| 1564203_at | hypothetical protein LOC147004 | <i>LOC147004</i> | 147004 |
| 1558256_at | hypothetical protein LOC148189 | <i>LOC148189</i> | 148189 |
| 242663_at | Hypothetical protein LOC148189 | <i>LOC148189</i> | 148189 |
| 1557049_at | Hypothetical protein LOC149478 | <i>LOC149478</i> | 149478 |
| 244231_at | hypothetical protein LOC149684 | <i>LOC149684</i> | 149684 |
| 230502_s_at | Hypothetical protein LOC149832 | <i>LOC149832</i> | 149832 |

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|--------------|---|--------------------------------|--------------|
| 228456_s_at | hypothetical protein LOC149832 | LOC149832 | 149832 |
| 229295_at | hypothetical protein LOC150166 | LOC150166 | 150166 |
| 1555898_at | Hypothetical protein LOC150759 | LOC150759 | 400986 |
| 213703_at | hypothetical protein LOC150759 | LOC150759 | 150759 |
| 201047_x_at | RAB6A, member RAS oncogene family /// RAB6C-like | LOC150786 /// RAE 5870 | |
| 210406_s_at | RAB6A, member RAS oncogene family /// RAB6C, member RAS oncogene family | LOC150786 /// RAE 5870 /// 840 | |
| 212098_at | hypothetical protein LOC151162 | LOC151162 | 151162 |
| 1559105_at | hypothetical protein LOC152084 | LOC152084 | 389170 |
| 225657_at | hypothetical protein BC007882 | LOC152217 | 152217 |
| 228046_at | Hypothetical protein LOC152485 | LOC152485 | 152485 |
| 1569995_at | similar to RIKEN cDNA 4933434120 | LOC152586 | 152586 |
| 215978_x_at | hypothetical protein LOC152719 | LOC152719 | 152719 |
| 240167_at | hypothetical protein LOC152742 | LOC152742 | 152742 |
| 225957_at | adult retina protein | LOC153222 | 153222 |
| 225956_at | adult retina protein | LOC153222 | 153222 |
| 1554229_at | adult retina protein | LOC153222 | 153222 |
| 238476_at | adult retina protein | LOC153222 | 153222 |
| 231372_at | Similar to CG4995 gene product | LOC153328 | --- |
| 1556750_at | hypothetical protein LOC153577 | LOC153577 | 153577 |
| 232645_at | hypothetical protein LOC153684 | LOC153684 | 153684 |
| 1561085_at | hypothetical protein LOC153910 | LOC153910 | 153910 |
| 227868_at | hypothetical protein LOC154761 | LOC154761 | 154761 |
| 1560119_at | hypothetical protein LOC157278 /// olfactory receptor, family 7, subfamily E, member 1 | LOC157278 /// LOC 389634 | |
| 231377_at | similar to Ab2-183 | LOC158830 | 158830 |
| 211014_s_at | promyelocytic leukemia /// hypothetical protein LOC161527 /// similar to promyelocytic leukemia protein | LOC161527 /// LOC 161527 /// 5 | |
| 227954_at | hypothetical protein LOC162073 | LOC162073 | 162073 |
| 1564785_at | hypothetical protein LOC196913 | LOC196913 | 196913 |
| 233209_at | Hypothetical protein LOC200609 | LOC200609 | 200609 |
| 1558641_at | hypothetical protein LOC202051 | LOC202051 | 202051 |
| 214945_at | hypothetical protein LOC202134 /// NY-REN-7 antigen /// hypothetical protein LOC202134 | LOC202134 /// LOC 202134 /// 1 | |
| 225654_at | hypothetical protein LOC202347 | LOC202347 | 64324 |
| 235587_at | hypothetical protein LOC202781 | LOC202781 | 202781 |
| 232034_at | hypothetical protein LOC203274 | LOC203274 | 203274 |
| 1554517_x_at | Hypothetical protein LOC203274 /// Full-length cDNA clone CS0DD001YM12 of | LOC203274 | 203274 |
| 1554516_at | Hypothetical protein LOC203274 /// Full-length cDNA clone CS0DD001YM12 of | LOC203274 | 203274 |
| 226760_at | membrane-bound transcription factor peptidase, site 2 /// hypothetical protein | LOC203411 /// MB 51360 | |
| 225556_at | hypothetical protein LOC203547 | LOC203547 | 203547 |
| 243293_at | succinate dehydrogenase complex, subunit A, flavoprotein pseudogene /// succinate dehydrogenase complex, subunit A, flavoprotein pseudogene | LOC220729 /// SDF 220729 /// 1 | |
| 233013_x_at | hypothetical protein LOC220906 | LOC220906 | 220906 |
| 236832_at | hypothetical LOC221442 | LOC221442 | 221442 |
| 51774_s_at | hypothetical protein LOC222070 | LOC222070 | 222070 |
| 58900_at | hypothetical protein LOC222070 | LOC222070 | 222070 |
| 233732_at | Hypothetical protein LOC222159 | LOC222159 | 401320 |
| 1558458_at | Hypothetical protein LOC222159 | LOC222159 | 401320 |
| 215002_at | KIAA0220-like protein /// hypothetical protein LOC339047 /// hypothetical protein LOC339047 | LOC23117 /// LOC 100132247 , | |
| 1557059_at | Hypothetical protein LOC254128 | LOC254128 | 254128 |
| 235132_at | hypothetical protein LOC254128 | LOC254128 | 254128 |
| 229466_at | hypothetical protein LOC256273 | LOC256273 | 256273 /// 5 |
| 1556464_a_at | hypothetical protein LOC257407 | LOC257407 | 257407 |
| 244597_at | Viral DNA polymerase-transactivated protein 6 | LOC26010 | 26010 |
| 1554840_at | putative anti-CNG alpha 1 cation channel translation product | LOC280665 | 280665 |
| 1562527_at | hypothetical protein LOC283027 | LOC283027 | 283027 |
| 221154_at | tripartite motif-containing 49 /// similar to Tripartite motif protein 49 (RING finger domain) | LOC283116 /// LOC 57093 | |
| 1556319_at | hypothetical protein LOC283270 | LOC283270 | 283270 |
| 235151_at | hypothetical protein LOC283357 | LOC283357 | 283357 |
| 229528_at | hypothetical protein LOC283378 | LOC283378 | 283378 |
| 1561536_at | hypothetical protein LOC283435 | LOC283435 | 283435 |
| 1557821_at | hypothetical protein LOC283547 | LOC283547 | 283547 |
| 1561442_at | hypothetical LOC283585 | LOC283585 | 283585 |
| 1557113_at | hypothetical protein LOC283588 | LOC283588 | 283588 |
| 230245_s_at | hypothetical protein LOC283663 | LOC283663 | 283663 |
| 226682_at | hypothetical protein LOC283666 | LOC283666 | 283666 |
| 236266_at | Hypothetical protein LOC283666 | LOC283666 | 283666 |

| | | | |
|--------------|---|-------------------|---------------|
| 1560707_at | hypothetical protein LOC283856 | LOC283856 | 283856 |
| 1561518_at | hypothetical protein LOC283914 | LOC283914 | 283914 |
| 225749_at | Hypothetical protein LOC283951 | LOC283951 | 283951 |
| 1557399_at | hypothetical protein LOC284009 | LOC284009 | 284009 |
| 1558723_at | hypothetical protein LOC284014 | LOC284014 | 284014 |
| 238096_at | hypothetical protein LOC284023 | LOC284023 | 284023 |
| 240979_at | Hypothetical protein LOC284100 | LOC284100 | 284100 |
| 1558903_at | hypothetical gene supported by BC011527; BC021928; BC011527; BC021928 | LOC284260 | 284260 |
| 227478_at | hypothetical protein LOC284262 | LOC284262 | 26040 |
| 1558809_s_at | hypothetical protein LOC284408 | LOC284408 | 284408 |
| 1555847_a_at | hypothetical protein LOC284454 | LOC284454 | 284454 |
| 240661_at | hypothetical protein LOC284475 | LOC284475 | 284475 |
| 236846_at | hypothetical protein LOC284757 | LOC284757 | 284757 |
| 1557570_a_at | hypothetical protein LOC285084 | LOC285084 | 285084 |
| 226561_at | hypothetical protein LOC285086 | LOC285086 | 285086 |
| 236166_at | hypothetical protein LOC285147 | LOC285147 | 285147 |
| 1558601_at | hypothetical protein LOC285194 | LOC285194 | 285194 |
| 1561096_at | hypothetical protein LOC285419 | LOC285419 | 285419 |
| 227270_at | hypothetical protein LOC285550 | LOC285550 | 285550 |
| 1563489_at | hypothetical protein LOC285638 | LOC285638 | 285638 |
| 1561691_at | hypothetical protein LOC285735 | LOC285735 | 285735 |
| 237614_at | hypothetical protein LOC285740 | LOC285740 | 285740 |
| 230179_at | hypothetical protein LOC285812 | LOC285812 | 285812 |
| 239068_at | hypothetical protein LOC285831 | LOC285831 | 2794 |
| 1560692_at | V-set and transmembrane domain containing 2A /// hypothetical protein LOC285878 /// VST | LOC285878 | 222008 /// 34 |
| 1563781_at | hypothetical protein LOC285949 | LOC285949 | 285949 |
| 1552670_a_at | hypothetical protein LOC286044 | LOC286044 | 79660 |
| 222662_at | hypothetical protein LOC286044 | LOC286044 | 79660 |
| 241370_at | hypothetical protein LOC286052 | LOC286052 | 286052 |
| 243304_at | hypothetical protein LOC286109 | LOC286109 | 286109 |
| 1569887_a_at | hypothetical protein LOC286135 | LOC286135 | 286135 |
| 225603_s_at | Hypothetical protein LOC286144 | LOC286144 | 286144 |
| 225599_s_at | hypothetical protein LOC286144 | LOC286144 | 286144 |
| 225600_at | hypothetical protein LOC286144 | LOC286144 | 286144 |
| 225033_at | hypothetical protein LOC286167 | LOC286167 | 286167 |
| 226395_at | hypothetical protein LOC286170 | LOC286170 | 84376 |
| 1556421_at | hypothetical protein LOC286189 | LOC286189 | 286189 |
| 1559765_a_at | hypothetical protein LOC286254 | LOC286254 | 286254 |
| 232182_at | hypothetical protein LOC286272 | LOC286272 | 286272 |
| 1561225_at | hypothetical protein LOC338579 | LOC338579 | 338579 |
| 238893_at | hypothetical protein LOC338758 | LOC338758 | 338758 |
| 226235_at | hypothetical protein LOC339290 | LOC339290 | 339290 |
| 1562908_at | hypothetical protein LOC339468 | LOC339468 | 339468 |
| 225659_at | hypothetical protein LOC339745 | LOC339745 | 339745 |
| 1557664_at | hypothetical protein LOC340239 | LOC340239 | 340239 |
| 215823_x_at | poly(A) binding protein, cytoplasmic 3 /// poly(A) binding protein, cytoplasmic 1 | LOC341315 /// LOC | 26986 /// 34 |
| 239466_at | hypothetical LOC344595 | LOC344595 | 344595 |
| 225329_at | hypothetical protein LOC348262 | LOC348262 | 348262 |
| 227181_at | hypothetical protein LOC348801 | LOC348801 | 348801 |
| 1569882_at | BC048124 | LOC348808 | 348808 |
| 233934_at | Hypothetical protein LOC349160 | LOC349160 | 349160 |
| 240572_s_at | CLR pseudogene | LOC374443 | 374443 |
| 1558982_at | hypothetical LOC375010 | LOC375010 | 375010 |
| 1566147_a_at | hypothetical LOC375010 | LOC375010 | 375010 |
| 237737_at | hypothetical LOC375010 /// hypothetical LOC401131 /// hypothetical LOC64316 | LOC375010 /// LOC | 727770 |
| 227099_s_at | hypothetical LOC387763 | LOC387763 | 387763 |
| 213801_x_at | ribosomal protein SA /// similar to 40S ribosomal protein SA (p40) (34/67 kDa la | LOC387867 /// LOC | 388524 /// 34 |
| 244498_x_at | similar to ubiquitin-conjugating enzyme E2Q 2 /// hypothetical LOC388160 /// h | LOC388153 /// LOC | 440296 |
| 1560773_at | hypothetical gene supported by BC040718 | LOC388458 | 388458 |
| 238768_at | hypothetical LOC388969 | LOC388969 | 388969 |
| 221878_at | hypothetical LOC388969 | LOC388969 | 388969 |
| 225014_at | hypothetical gene supported by BC032431 | LOC389203 | 389203 |
| 224890_s_at | similar to CG14977-PA | LOC389541 | 389541 |

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|--------------|---|-----------|--------------|
| 225046_at | Hypothetical gene supported by AL713796 | LOC389831 | 100132181 |
| 225062_at | hypothetical gene supported by AL713796 | LOC389831 | 100132181 |
| 244631_at | hypothetical gene supported by AK123403 /// hypothetical LOC642398 /// hypc | LOC389834 | LOC389834 |
| 216342_x_at | similar to 40S ribosomal protein S4, X isoform | LOC390183 | LOC100128140 |
| 200869_at | ribosomal protein L18a /// similar to ribosomal protein L18a; 60S ribosomal pro | LOC390354 | RPL390354 |
| 222297_x_at | similar to ribosomal protein L18 | LOC390612 | 390612 |
| 1558075_at | LOC399491 protein | LOC399491 | 339047 |
| 214682_at | LOC399491 protein | LOC399491 | 399491 |
| 200063_s_at | nucleophosmin (nucleolar phosphoprotein B23, numatrin) /// similar to nucleop | LOC399804 | NPI4869 |
| 228541_x_at | hypothetical gene supported by AK098314 | LOC400446 | --- |
| 236001_at | hypothetical gene supported by BC015790; BC041634 | LOC400573 | 400573 |
| 217506_at | Hypothetical gene supported by BC041875; BX648984 | LOC400642 | 400642 |
| 1561090_at | hypothetical gene supported by BC042493 | LOC400654 | 400654 |
| 1569264_at | hypothetical gene supported by BC013370; BC034583 | LOC400655 | 400655 |
| 226924_at | hypothetical gene supported by BC036588 | LOC400657 | 400657 |
| 232953_at | hypothetical LOC400723 | LOC400723 | 140849 |
| 1556801_at | hypothetical gene supported by BC030596 | LOC400794 | 400794 |
| 217466_x_at | ribosomal protein S2 /// hypothetical gene supported by AB082925; BC019021; | LOC400963 | LOC6187 |
| 232812_at | hypothetical LOC401052 | LOC401052 | 401052 |
| 1559826_a_at | hypothetical LOC401074 | LOC401074 | 401074 |
| 224605_at | HCV F-transactivated protein 1 | LOC401152 | 401152 |
| 224604_at | HCV F-transactivated protein 1 | LOC401152 | 401152 |
| 224602_at | HCV F-transactivated protein 1 | LOC401152 | 401152 |
| 1559760_at | hypothetical gene supported by BC036933 | LOC401220 | 401220 |
| 226635_at | Hypothetical gene supported by AK091718 | LOC401504 | 401504 |
| 225635_s_at | Hypothetical gene supported by AK091718 | LOC401504 | 401504 |
| 217203_at | similar to Glutamine synthetase (Glutamate--ammonia ligase) (GS) | LOC401708 | 2752 |
| 200034_s_at | ribosomal protein L6 /// similar to 60S ribosomal protein L6 (TAX-responsive enl | LOC401725 | LOC6128 |
| 238949_at | hypothetical gene supported by NM_144726 | LOC401805 | 153830 |
| 216348_at | ribosomal protein S17 /// similar to 40S ribosomal protein S17 | LOC402057 | RPS442216 |
| 228839_s_at | hypothetical gene supported by AF064843; AK025716 /// hypothetical LOC6423 | LOC439994 | LOC439994 |
| 227106_at | similar to RIKEN cDNA 1110012D08 | LOC440104 | 100131058 |
| 240268_at | hypothetical gene supported by BC037858 | LOC440117 | 440117 |
| 244766_at | PI-3-kinase-related kinase SMG-1 /// hypothetical protein LOC440345 /// PI-3-k | LOC440345 | LOC23049 |
| 216193_at | hect domain and RLD 2 pseudogene | LOC440366 | 440366 |
| 242131_at | OK/SW-cl.16 | LOC440552 | 440552 |
| 237563_s_at | hypothetical LOC440731 | LOC440731 | 440731 |
| 238727_at | Hypothetical gene supported by BC008048 | LOC440934 | --- |
| 238207_at | Similar to CG32736-PA | LOC440957 | 440957 |
| 241510_at | similar to Phospholipid scramblase 1 (PL scramblase 1) (Ca(2+)-dependent phos) | LOC440981 | 440981 |
| 230405_at | hypothetical gene supported by AK128882 | LOC441108 | 441108 |
| 1560128_x_at | MRNA; cDNA DKFZp686D10250 (from clone DKFZp686D10250) /// Hypothetical | LOC441108 | 441108 |
| 232253_at | Hypothetical gene supported by AK128882 | LOC441108 | 441108 |
| 223945_x_at | retinitis pigmentosa 9 pseudogene | LOC441212 | 441212 |
| 243009_at | Hypothetical LOC441242 /// CDNA clone IMAGE:5302136 | LOC441242 | 441242 |
| 233399_x_at | Hypothetical gene supported by AF086559; BC065734 | LOC441383 | 286101 |
| 208549_x_at | prothymosin, alpha (gene sequence 28) /// hypothetical gene supported by BC0 | LOC441454 | LOC326626 |
| 1558688_at | hypothetical gene supported by BC030123 | LOC441461 | 441461 |
| 217107_at | similar to 40S ribosomal protein S4, Y isoform 2 | LOC442257 | --- |
| 234954_at | similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) | LOC442262 | LOC--- |
| 226977_at | similar to bovine IgA regulatory protein | LOC492311 | 492311 |
| 227628_at | similar to RIKEN cDNA 2310016C16 | LOC493869 | 493869 |
| 201871_s_at | SAPK substrate protein 1 | LOC51035 | 51035 |
| 231770_x_at | hypothetical protein LOC51057 | LOC51057 | 51057 |
| 220771_at | melanoma antigen | LOC51152 | 51152 |
| 225029_at | hypothetical protein LOC550643 | LOC550643 | 550643 |
| 225028_at | hypothetical protein LOC550643 | LOC550643 | 550643 |
| 1554447_at | hypothetical LOC554203 | LOC554203 | 554203 |
| 226006_at | hypothetical gene LOC554363 | LOC554363 | 100131801 |
| 225509_at | hypothetical protein LOC56757 | LOC56757 | 79685 |
| 231024_at | hypothetical locus LOC572558 | LOC572558 | 572558 |
| 237745_at | hypothetical LOC641467 | LOC641467 | 641467 |
| 1554996_at | zinc finger protein 479 /// similar to Zinc finger protein 479 (Zinc finger protein | LOC641717 | LOC100134769 |

| | | | |
|--------------|--|--------------------------------|-------------|
| 241646_s_at | hypothetical protein LOC641748 /// hypothetical LOC646579 | LOC641748 /// LOC 55973 | |
| 224751_at | hypothetical protein LOC641845 /// hypothetical LOC647087 | LOC641845 /// LOC 647087 | |
| 215160_x_at | similar to FRG1 protein (FSHD region gene 1 protein) | LOC642236 | 642236 |
| 242135_at | similar to FRG1 protein (FSHD region gene 1 protein) | LOC642236 /// LOC 642236 | |
| 1559810_at | hypothetical LOC642313 | LOC642313 | 642313 |
| 242577_at | hypothetical LOC642398 /// hypothetical protein LOC727834 | LOC642398 /// LOC --- | |
| 229264_at | hypothetical LOC642441 /// hypothetical protein LOC730256 /// hypothetical pi | LOC642441 /// LOC 100132999 | |
| 213878_at | similar to CG10721-PA | LOC642732 | 79912 |
| 231173_at | pyridine nucleotide-disulphide oxidoreductase domain 1 /// similar to CG10721- | LOC642732 /// PYR 79912 | |
| 243656_at | hypothetical LOC642852 | LOC642852 | 642852 |
| 234655_at | similar to Arachidonate 15-lipoxygenase (Arachidonate omega-6 lipoxygenase) (| LOC642959 | --- |
| 228412_at | hypothetical LOC643072 | LOC643072 | 643072 |
| 216384_x_at | similar to prothymosin, alpha (gene sequence 28) | LOC643287 | 643287 |
| 200773_x_at | prothymosin, alpha (gene sequence 28) /// similar to prothymosin, alpha (gene | LOC643287 /// PTL 5757 | |
| 216515_x_at | prothymosin, alpha (gene sequence 28) /// similar to prothymosin, alpha (gene | LOC643287 /// PTL 5757 /// 643 | |
| 1553618_at | tripartite motif-containing 43 /// similar to bloodthirsty /// similar to tripartite n | LOC643445 /// LOC 129868 /// t | |
| 226808_at | hypothetical protein LOC643641 | LOC643641 | 643641 |
| 1560833_at | hypothetical protein LOC643648 | LOC643648 | 643648 |
| 211720_x_at | ribosomal protein, large, P0 /// similar to acidic ribosomal phosphoprotein P0 | LOC643779 /// RPL 6175 | |
| 201033_x_at | ribosomal protein, large, P0 /// similar to acidic ribosomal phosphoprotein P0 | LOC643779 /// RPL 6175 | |
| 208856_x_at | ribosomal protein, large, P0 /// similar to acidic ribosomal phosphoprotein P0 | LOC643779 /// RPL 6175 | |
| 211972_x_at | ribosomal protein, large, P0 /// similar to acidic ribosomal phosphoprotein P0 | LOC643779 /// RPL 6175 | |
| 214167_s_at | ribosomal protein, large, P0 /// ribosomal protein P0-like /// similar to acidic rib | LOC643779 /// RPL 220717 /// t | |
| 227796_at | zinc finger protein 62 homolog (mouse) /// similar to Zinc finger protein 62 hom | LOC643836 /// ZFP 92379 | |
| 1557055_s_at | hypothetical protein LOC643837 | LOC643837 | 643837 |
| 214355_x_at | similar to CTAGE family, member 5 | LOC643854 | 100128553 , |
| 204970_s_at | v-maf musculoaponeurotic fibrosarcoma oncogene homolog G (avian) /// simila | LOC644132 /// MA 4097 | |
| 244655_at | Hypothetical LOC644192 | LOC644192 | 100132798 |
| 1566084_at | Hypothetical LOC644215 | LOC644215 | 644215 |
| 1559822_s_at | Hypothetical LOC644215 | LOC644215 | 644215 |
| 1558404_at | Hypothetical protein LOC644242 | LOC644242 | 644242 |
| 201874_at | myelin protein zero-like 1 /// similar to myelin protein zero-like 1 isoform a | LOC644387 /// MP. 9019 | |
| 201875_s_at | myelin protein zero-like 1 /// similar to myelin protein zero-like 1 isoform a | LOC644387 /// MP. 9019 | |
| 221235_s_at | Hypothetical LOC644617 | LOC644617 | 644617 |
| 1560207_at | hypothetical LOC644660 | LOC644660 | 644660 |
| 234372_at | similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (38 kDa BFA-de | LOC644728 | --- |
| 224424_x_at | ARP3 actin-related protein 3 homolog B pseudogene | LOC644773 | 440888 |
| 224426_s_at | ARP3 actin-related protein 3 homolog B pseudogene | LOC644773 | 440888 |
| 224425_x_at | ARP3 actin-related protein 3 homolog B pseudogene | LOC644773 /// LOC 440888 | |
| 203742_s_at | thymine-DNA glycosylase /// similar to G/T mismatch-specific thymine DNA glyc | LOC645233 /// LOC 6996 | |
| 1555400_at | PP565 | LOC645261 | 645261 |
| 1560007_at | hypothetical LOC645984 | LOC645984 | 645984 |
| 238715_at | Hypothetical protein LOC646014 | LOC646014 | 646014 |
| 1562583_s_at | hypothetical LOC646405 | LOC646405 | 646405 |
| 229364_at | hypothetical protein LOC646870 | LOC646870 | 646870 |
| 237116_at | hypothetical LOC646903 | LOC646903 | 646903 |
| 217092_x_at | similar to 60S ribosomal protein L7 | LOC646912 | 100127893 , |
| 1557828_a_at | hypothetical protein LOC646916 | LOC646916 | 64417 |
| 1555264_a_at | TTL/TEL fusion protein TTL-T | LOC646982 | 646982 |
| 215467_x_at | hypothetical LOC647070 | LOC647070 | 647070 |
| 1561492_at | hypothetical protein LOC647107 | LOC647107 | 647107 |
| 226789_at | similar to embigin homolog | LOC647121 | 647121 |
| 231367_s_at | hypothetical LOC647131 | LOC647131 | 647131 |
| 1566079_at | similar to 40S ribosomal protein S16 | LOC647190 | 647190 |
| 240365_at | hypothetical protein LOC647946 | LOC647946 | 647946 |
| 1560001_at | Similar to 40S ribosomal protein S3a (V-fos transformation effector protein) | LOC649314 | 100131581 |
| 200641_s_at | tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, ze | LOC650083 /// YW 7534 | |
| 200640_at | tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, ze | LOC650083 /// YW 7534 | |
| 200639_s_at | tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, ze | LOC650083 /// YW 7534 | |
| 200638_s_at | tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, ze | LOC650083 /// YW 7534 | |
| 1569872_a_at | Full-length cDNA clone CS0DF015YK23 of Fetal brain of Homo sapiens (human) , | LOC650392 | 650392 |
| 236837_x_at | Similar to FRAS1-related extracellular matrix protein 2 precursor (ECM3 homolo | LOC650794 | 650794 |
| 243760_at | similar to FRAS1-related extracellular matrix protein 2 precursor (ECM3 homolo, | LOC650794 | 650794 |

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|--------------|---|-----------|----------------------|
| 244042_x_at | Similar to retinoic acid receptor responder (tazarotene induced) 2 | LOC651466 | --- |
| 231658_x_at | similar to ribosomal protein L36 | LOC651600 | --- |
| 229540_at | recombination signal binding protein for immunoglobulin kappa J region /// sim | LOC652675 | /// RBF 3516 |
| 201252_at | proteasome (prosome, macropain) 26S subunit, ATPase, 4 /// similar to 26S pro | LOC652826 | /// PSA 5704 |
| 233528_s_at | hypothetical protein LOC652968 | LOC652968 | 652968 /// 8 |
| 226613_at | hypothetical protein LOC652968 | LOC652968 | 652968 /// 8 |
| 226558_at | similar to CG32820-PA, isoform A | LOC653071 | 653071 |
| 209403_at | TBC1 domain family, member 3 /// TBC1 domain family, member 3C /// similar | LOC653380 | /// LOC 414059 /// 4 |
| 216902_s_at | RRN3 RNA polymerase I transcription factor homolog (S. cerevisiae) /// RRN3 RN | LOC653390 | /// LOC 54700 /// 65 |
| 218338_at | polyhomeotic homolog 1 (Drosophila) /// similar to polyhomeotic 1-like | LOC653441 | /// PHC 1911 /// 65 |
| 225955_at | meteorin, glial cell differentiation regulator-like /// similar to meteorin, glial cell | LOC653506 | /// ME 284207 /// 6 |
| 201239_s_at | signal peptidase complex subunit 2 homolog (S. cerevisiae) /// signal peptidase | LOC653566 | /// SPC 653566 /// 9 |
| 1561894_at | hypothetical protein LOC653739 | LOC653739 | 653739 |
| 1553432_s_at | otoancorin /// otoancorin pseudogene | LOC653786 | /// OTC 146183 |
| 238990_x_at | similar to ring finger protein 129 | LOC653794 | 391712 |
| 205060_at | poly (ADP-ribose) glycohydrolase /// similar to poly (ADP-ribose) glycohydrolase | LOC727726 | /// PAF 8505 |
| 201384_s_at | neighbor of BRCA1 gene 1 /// similar to neighbor of BRCA1 gene 1 | LOC727732 | /// NBI 100133166 , |
| 212280_x_at | similar to APG4 autophagy 4 homolog B isoform a | LOC727737 | 23192 /// 7 |
| 240814_at | hypothetical gene supported by BC029568 /// hypothetical protein LOC727739 | LOC727739 | /// MG 441058 |
| 218226_s_at | NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa /// similar to N | LOC727762 | /// NDI 4710 /// 72 |
| 227384_s_at | hypothetical protein LOC727820 | LOC727820 | 727820 |
| 1558093_s_at | matrin 3 /// similar to Matrin-3 (Nuclear scaffold protein P130/MAT3) | LOC727839 | /// MA 9782 |
| 200624_s_at | matrin 3 /// similar to Matrin-3 (Nuclear scaffold protein P130/MAT3) | LOC727839 | /// MA 9782 |
| 216469_at | similar to zinc finger protein 43 (HTF6) | LOC727867 | 441955 /// 7 |
| 1564856_s_at | hypothetical protein LOC727924 | LOC727924 | 283694 /// 7 |
| 1561437_at | Hypothetical gene LOC728012 | LOC728012 | --- |
| 1561221_x_at | hypothetical protein LOC728099 | LOC728099 | 728099 |
| 243485_at | hypothetical protein LOC728173 | LOC728173 | 728173 |
| 230543_at | hypothetical protein LOC728177 | LOC728177 | --- |
| 1558794_at | Hypothetical protein LOC728190 | LOC728190 | 728190 |
| 229609_at | hypothetical protein LOC728190 | LOC728190 | 728190 |
| 1562625_at | Hypothetical protein LOC728298 | LOC728298 | 285527 |
| 202018_s_at | lactotransferrin /// similar to lactotransferrin | LOC728320 | /// LTF 4057 |
| 213605_s_at | Similar to Beta-glucuronidase precursor | LOC728411 | 100134401 |
| 1558640_a_at | Similar to Beta-glucuronidase precursor | LOC728411 | 100132788 |
| 230653_at | hypothetical protein LOC728555 /// hypothetical protein LOC730391 | LOC728555 | /// LOC 100132218 , |
| 242491_at | hypothetical protein LOC728555 /// hypothetical protein LOC730391 | LOC728555 | /// LOC 100132218 , |
| 217122_s_at | solute carrier family 35, member E2 /// similar to solute carrier family 35, mem | LOC728661 | /// SLC 728661 /// 9 |
| 234562_x_at | hypothetical protein LOC728678 /// hypothetical protein LOC731914 | LOC728678 | /// LOC 728678 |
| 228245_s_at | ovostatin 2 /// similar to cDNA sequence BC048546 | LOC728715 | /// OV 100132881 , |
| 1564475_s_at | hypothetical protein LOC728723 | LOC728723 | 728723 |
| 1564474_at | hypothetical protein LOC728723 | LOC728723 | 728723 |
| 242313_at | Hypothetical protein LOC728730 | LOC728730 | 728730 |
| 228884_at | similar to leucine rich repeat containing 27 | LOC728799 | 728799 /// 8 |
| 224899_s_at | implantation-associated protein /// similar to implantation-associated protein | LOC728866 | /// RP1 728866 /// 8 |
| 221553_at | implantation-associated protein /// similar to implantation-associated protein | LOC728866 | /// RP1 728866 /// 8 |
| 228040_at | family with sequence similarity 88, member B /// hypothetical protein LOC7289 | LOC728903 | /// RP1 389741 |
| 227709_at | Similar to Reticulocalbin-1 precursor /// Pp13759 | LOC728913 | --- |
| 227710_s_at | Similar to Reticulocalbin-1 precursor /// Pp13759 | LOC728913 | --- |
| 227092_at | hypothetical protein LOC728928 | LOC728928 | --- |
| 226740_x_at | neuroblastoma breakpoint family, member 14 /// neuroblastoma breakpoint fa | LOC728980 | /// LOC 100132406 , |
| 201103_x_at | neuroblastoma breakpoint family, member 11 /// neuroblastoma breakpoint fa | LOC728980 | /// NBI 100132406 , |
| 213612_x_at | neuroblastoma breakpoint family, member 15 /// neuroblastoma breakpoint fa | LOC728980 | /// NBI 100132406 , |
| 235010_at | hypothetical protein LOC729013 | LOC729013 | 729013 |
| 237028_at | hypothetical protein LOC729124 | LOC729124 | 729124 |
| 59433_at | hypothetical protein LOC729137 | LOC729137 | 286434 /// 8 |
| 203837_at | mitogen-activated protein kinase kinase kinase 5 /// hypothetical protein LOC72 | LOC729144 | /// MA 4217 |
| 214375_at | PTPRF interacting protein, binding protein 1 (liprin beta 1) /// similar to PTPRF i | LOC729222 | /// PPF 729222 /// 8 |
| 220167_s_at | TP53TG3 protein /// similar to TP53TG3 protein | LOC729264 | /// LOC 24150 /// 7 |
| 227866_at | Hypothetical protein LOC729436 | LOC729436 | 729436 |
| 227837_at | Hypothetical protein LOC729570 | LOC729570 | 729570 |
| 78047_s_at | hypothetical protein LOC729580 | LOC729580 | 729580 |
| 225860_at | hypothetical protein LOC729580 | LOC729580 | 729580 |

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|--------------|---|-------------------|--------------|
| 1556180_at | hypothetical protein LOC729678 | LOC729678 | 729678 |
| 236614_at | hypothetical protein LOC729683 | LOC729683 | 729683 |
| 240436_at | Hypothetical protein LOC729697 | LOC729697 | 650794 |
| 217544_at | similar to Zinc finger protein 492 | LOC729806 | 729806 |
| 236692_at | similar to DTW domain containing 2 | LOC729839 | 729839 |
| 242539_at | nuclear receptor binding factor 2 pseudogene /// similar to nuclear receptor bin | LOC730069 /// LOC | 731484 |
| 216908_x_at | RRN3 RNA polymerase I transcription factor homolog (S. cerevisiae) pseudogene | LOC730092 | 730092 |
| 215211_at | RRN3 RNA polymerase I transcription factor homolog (S. cerevisiae) pseudogene | LOC730092 | --- |
| 1561571_at | hypothetical protein LOC730139 | LOC730139 | 730139 |
| 241053_at | hypothetical protein LOC730184 | LOC730184 | 730184 |
| 240287_at | similar to Immune-responsive protein 1 | LOC730249 | 730249 |
| 230712_at | neuroblastoma breakpoint family, member 1 /// neuroblastoma breakpoint fam | LOC730258 /// NBI | 100132406 , |
| 215599_at | glucuronidase, beta pseudogene /// similar to SMA4 | LOC730390 /// SM, | 11039 |
| 217436_x_at | hypothetical protein LOC730399 /// hypothetical protein LOC731974 | LOC730399 /// LOC | 3105 /// 310 |
| 235142_at | zinc finger and BTB domain containing 8 /// similar to zinc finger and BTB domai | LOC730411 /// ZBT | 653121 /// 7 |
| 235180_at | serine/threonine/tyrosine interacting protein /// similar to serine/threonine/tyr | LOC730432 /// STY | 6815 /// 730 |
| 242408_at | serine/threonine/tyrosine interacting protein /// similar to serine/threonine/tyr | LOC730432 /// STY | 6815 /// 730 |
| 230959_at | hypothetical protein LOC730453 | LOC730453 | --- |
| 215441_at | hypothetical protein LOC730453 | LOC730453 | --- |
| 207922_s_at | macrophage erythroblast attacher /// similar to macrophage erythroblast attac | LOC730744 /// MA | 10296 |
| 217492_s_at | phosphatase and tensin homolog (mutated in multiple advanced cancers 1) /// | LOC731292 /// PTE | 11191 /// 5; |
| 223988_x_at | methyltransferase 11 domain containing 1 /// similar to methyltransferase 11 d | LOC731602 /// ME | 64745 /// 7; |
| 217520_x_at | Similar to programmed cell death 6 interacting protein | LOC731884 | 731884 |
| 208137_x_at | zinc finger protein 137 /// zinc finger protein 611 /// zinc finger protein 600 /// | LOC731901 /// ZNF | 81856 |
| 239316_at | hypothetical protein LOC751071 | LOC751071 | 751071 |
| 1560081_at | hypothetical protein LOC90408 | LOC90408 | 90408 |
| 234341_x_at | hypothetical protein LOC91548 | LOC91548 | 91548 |
| 213220_at | hypothetical protein LOC92482 | LOC92482 | 92482 |
| 233198_at | hypothetical protein LOC92497 | LOC92497 | 92497 |
| 214791_at | hypothetical protein BC004921 | LOC93349 | 93349 |
| 225391_at | hypothetical protein BC006130 | LOC93622 | 93622 |
| 1569013_s_at | hypothetical gene LOC96610 | LOC96610 | 642311 /// 9 |
| 226802_s_at | hypothetical gene LOC96610 | LOC96610 | 96610 |
| 220244_at | loss of heterozygosity, 3, chromosomal region 2, gene A | LOH3CR2A | 29931 |
| 209017_s_at | lon peptidase 1, mitochondrial | LONP1 | 9361 |
| 221834_at | Lon peptidase 2, peroxisomal | LONP2 | 83752 |
| 226038_at | LON peptidase N-terminal domain and ring finger 1 | LONRF1 | 91694 |
| 215446_s_at | lysyl oxidase | LOX | 4015 |
| 202651_at | lysophosphatidylglycerol acyltransferase 1 | LPGAT1 | 9926 |
| 1555058_a_at | lysophosphatidylglycerol acyltransferase 1 | LPGAT1 | 9926 |
| 209866_s_at | latrophilin 3 | LPHN3 | 23284 |
| 212274_at | lipin 1 | LPIN1 | 23175 |
| 202459_s_at | lipin 2 | LPIN2 | 9663 |
| 202460_s_at | lipin 2 | LPIN2 | 9663 |
| 202821_s_at | LIM domain containing preferred translocation partner in lipoma | LPP | 4026 |
| 213496_at | plasticity related gene 1 | LPPR4 | 9890 |
| 216250_s_at | leupaxin | LPXN | 9404 |
| 212692_s_at | LPS-responsive vesicle trafficking, beach and anchor containing | LRBA | 987 |
| 214109_at | LPS-responsive vesicle trafficking, beach and anchor containing | LRBA | 987 |
| 235012_at | leucine-rich repeats and calponin homology (CH) domain containing 1 | LRCH1 | 23143 |
| 231861_at | low density lipoprotein receptor-related protein 10 | LRP10 | 26020 |
| 219631_at | low density lipoprotein-related protein 12 | LRP12 | 29967 |
| 214873_at | low density lipoprotein receptor-related protein 5-like | LRP5L | 91355 |
| 225745_at | low density lipoprotein receptor-related protein 6 | LRP6 | 4040 |
| 201186_at | low density lipoprotein receptor-related protein associated protein 1 | LRPAP1 | 4043 |
| 211971_s_at | leucine-rich PPR-motif containing | LRPPRC | 10128 |
| 207790_at | leucine rich repeat containing 1 | LRRC1 | 55227 |
| 239471_at | leucine rich repeat containing 28 | LRRC28 | 123355 |
| 227423_at | leucine rich repeat containing 28 | LRRC28 | 123355 |
| 221740_x_at | Leucine rich repeat containing 37, member A2 /// CDNA clone IMAGE:4902949 | LRRC37A2 | 474170 |
| 206088_at | leucine rich repeat containing 37, member A2 | LRRC37A2 | 474170 /// 9 |
| 244478_at | Leucine rich repeat containing 37, member A3 | LRRC37A3 | 374819 |
| 1559580_at | leucine rich repeat containing 39 | LRRC39 | 127495 |

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|--------------|---|----------------|--------|
| 229085_at | leucine rich repeat containing 3B | <i>LRRC3B</i> | 116135 |
| 223552_at | leucine rich repeat containing 4 | <i>LRRC4</i> | 64101 |
| 218577_at | leucine rich repeat containing 40 | <i>LRRC40</i> | 55631 |
| 215084_s_at | leucine rich repeat containing 42 | <i>LRRC42</i> | 115353 |
| 235498_at | leucine rich repeat containing 44 | <i>LRRC44</i> | 127255 |
| 1553674_at | leucine rich repeat containing 44 | <i>LRRC44</i> | 127255 |
| 222068_s_at | leucine rich repeat containing 50 | <i>LRRC50</i> | 123872 |
| 229232_at | leucine rich repeat containing 57 | <i>LRRC57</i> | 255252 |
| 238506_at | leucine rich repeat containing 58 | <i>LRRC58</i> | 116064 |
| 233499_at | leucine rich repeat containing 7 | <i>LRRC7</i> | 57554 |
| 1558517_s_at | leucine rich repeat containing 8 family, member C | <i>LRRC8C</i> | 84230 |
| 228314_at | leucine rich repeat containing 8 family, member C | <i>LRRC8C</i> | 84230 |
| 223533_at | leucine rich repeat containing 8 family, member C | <i>LRRC8C</i> | 84230 |
| 1570007_at | leucine rich repeat containing 8 family, member C | <i>LRRC8C</i> | 84230 |
| 218684_at | leucine rich repeat containing 8 family, member D | <i>LRRC8D</i> | 55144 |
| 223492_s_at | leucine rich repeat (in FLII) interacting protein 1 | <i>LRRFIP1</i> | 9208 |
| 220610_s_at | leucine rich repeat (in FLII) interacting protein 2 | <i>LRRFIP2</i> | 9209 |
| 219441_s_at | leucine-rich repeat kinase 1 | <i>LRRK1</i> | 79705 |
| 229584_at | leucine-rich repeat kinase 2 | <i>LRRK2</i> | 120892 |
| 206408_at | leucine rich repeat transmembrane neuronal 2 | <i>LRRTM2</i> | 26045 |
| 221535_at | large subunit GTPase 1 homolog (S. cerevisiae) | <i>LSG1</i> | 55341 |
| 221536_s_at | large subunit GTPase 1 homolog (S. cerevisiae) | <i>LSG1</i> | 55341 |
| 212529_at | LSM12 homolog (S. cerevisiae) | <i>LSM12</i> | 124801 |
| 212532_s_at | LSM12 homolog (S. cerevisiae) | <i>LSM12</i> | 124801 |
| 212132_at | LSM14A, SCD6 homolog A (S. cerevisiae) | <i>LSM14A</i> | 26065 |
| 219653_at | LSM14B, SCD6 homolog B (S. cerevisiae) | <i>LSM14B</i> | 149986 |
| 211747_s_at | LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae) | <i>LSM5</i> | 23658 |
| 203523_at | lymphocyte-specific protein 1 | <i>LSP1</i> | 4046 |
| 202245_at | lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase) | <i>LSS</i> | 4047 |
| 204682_at | latent transforming growth factor beta binding protein 2 | <i>LTBP2</i> | 4053 |
| 226758_at | LUC7-like 2 (S. cerevisiae) | <i>LUC7L2</i> | 51631 |
| 218729_at | latexin | <i>LXN</i> | 56925 |
| 202145_at | lymphocyte antigen 6 complex, locus E | <i>LY6E</i> | 4061 |
| 205668_at | lymphocyte antigen 75 | <i>LY75</i> | 4065 |
| 206584_at | lymphocyte antigen 96 | <i>LY96</i> | 23643 |
| 223414_s_at | Ly1 antibody reactive homolog (mouse) | <i>LYAR</i> | 55646 |
| 226996_at | lysocardiolipin acyltransferase | <i>LYCAT</i> | 253558 |
| 202626_s_at | v-yes-1 Yamaguchi sarcoma viral related oncogene homolog | <i>LYN</i> | 4067 |
| 210754_s_at | v-yes-1 Yamaguchi sarcoma viral related oncogene homolog | <i>LYN</i> | 4067 |
| 202625_at | v-yes-1 Yamaguchi sarcoma viral related oncogene homolog | <i>LYN</i> | 4067 |
| 226851_at | lysophospholipase-like 1 | <i>LYPLAL1</i> | 127018 |
| 239960_x_at | Lym7 homolog (mouse) | <i>LYRM7</i> | 90624 |
| 226321_at | LysM, putative peptidoglycan-binding, domain containing 3 | <i>LYSMD3</i> | 116068 |
| 213975_s_at | lysozyme (renal amyloidosis) | <i>LYZ</i> | 4069 |
| 226087_at | leucine zipper and CTNNBIP1 domain containing | <i>LZIC</i> | 84328 |
| 218437_s_at | leucine zipper transcription factor-like 1 | <i>LZTFL1</i> | 54585 |
| 1555881_s_at | leucine zipper, putative tumor suppressor 2 | <i>LZTS2</i> | 84445 |
| 200901_s_at | mannose-6-phosphate receptor (cation dependent) | <i>M6PR</i> | 4074 |
| 200900_s_at | mannose-6-phosphate receptor (cation dependent) | <i>M6PR</i> | 4074 |
| 208634_s_at | microtubule-actin crosslinking factor 1 | <i>MACF1</i> | 23499 |
| 1553564_at | MACRO domain containing 2 | <i>MACROD2</i> | 140733 |
| 203362_s_at | MAD2 mitotic arrest deficient-like 1 (yeast) | <i>MAD2L1</i> | 4085 |
| 208037_s_at | mucosal vascular addressin cell adhesion molecule 1 | <i>MADCAM1</i> | 8174 |
| 209348_s_at | v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian) | <i>MAF</i> | 4094 |
| 222998_at | MAF1 homolog (S. cerevisiae) | <i>MAF1</i> | 84232 |
| 205193_at | v-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian) | <i>MAFF</i> | 23764 |
| 36711_at | v-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian) | <i>MAFF</i> | 23764 |
| 226206_at | v-maf musculoaponeurotic fibrosarcoma oncogene homolog K (avian) | <i>MAFK</i> | 7975 |
| 206218_at | melanoma antigen family B, 2 | <i>MAGEB2</i> | 4113 |
| 206144_at | membrane associated guanylate kinase, WW and PDZ domain containing 1 | <i>MAGI1</i> | 9223 |
| 209737_at | membrane associated guanylate kinase, WW and PDZ domain containing 2 | <i>MAGI2</i> | 9863 |
| 220302_at | male germ cell-associated kinase | <i>MAK</i> | 4117 |
| 1558678_s_at | metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA) | <i>MALAT1</i> | 378938 |

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|--------------|--|------------------|--------|
| 224567_x_at | metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA) | <i>MALAT1</i> | 378938 |
| 223940_x_at | metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA) | <i>MALAT1</i> | 378938 |
| 226675_s_at | metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA) | <i>MALAT1</i> | 378938 |
| 224559_at | metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA) | <i>MALAT1</i> | 378938 |
| 208309_s_at | mucosa associated lymphoid tissue lymphoma translocation gene 1 | <i>MALT1</i> | 10892 |
| 210018_x_at | mucosa associated lymphoid tissue lymphoma translocation gene 1 | <i>MALT1</i> | 10892 |
| 228885_at | MAM domain containing 2 | <i>MAMDC2</i> | 256691 |
| 202360_at | mastermind-like 1 (Drosophila) | <i>MAML1</i> | 9794 |
| 242794_at | mastermind-like 3 (Drosophila) | <i>MAML3</i> | 55534 |
| 217922_at | mannosidase, alpha, class 1A, member 2 | <i>MAN1A2</i> | --- |
| 217920_at | mannosidase, alpha, class 1A, member 2 | <i>MAN1A2</i> | 10905 |
| 217282_at | mannosidase, alpha, class 1A, member 2 | <i>MAN1A2</i> | 10905 |
| 217921_at | mannosidase, alpha, class 1A, member 2 | <i>MAN1A2</i> | 10905 |
| 205105_at | mannosidase, alpha, class 2A, member 1 | <i>MAN2A1</i> | 4124 |
| 226538_at | Mannosidase, alpha, class 2A, member 1 | <i>MAN2A1</i> | 4124 |
| 235103_at | Mannosidase, alpha, class 2A, member 1 | <i>MAN2A1</i> | 4124 |
| 219999_at | mannosidase, alpha, class 2A, member 2 | <i>MAN2A2</i> | 4122 |
| 202032_s_at | mannosidase, alpha, class 2A, member 2 | <i>MAN2A2</i> | 4122 |
| 214703_s_at | mannosidase, alpha, class 2B, member 2 | <i>MAN2B2</i> | 23324 |
| 222805_at | mannosidase, endo-alpha | <i>MANEA</i> | 79694 |
| 220945_x_at | MANSC domain containing 1 | <i>MANSC1</i> | 54682 |
| 226084_at | microtubule-associated protein 1B | <i>MAP1B</i> | 4131 |
| 208786_s_at | microtubule-associated protein 1 light chain 3 beta | <i>MAP1LC3B</i> | 81631 |
| 208785_s_at | microtubule-associated protein 1 light chain 3 beta | <i>MAP1LC3B</i> | 81631 |
| 218522_s_at | microtubule-associated protein 1S | <i>MAP1S</i> | 55201 |
| 210015_s_at | microtubule-associated protein 2 | <i>MAP2</i> | 4133 |
| 202670_at | mitogen-activated protein kinase kinase 1 | <i>MAP2K1</i> | 5604 |
| 217971_at | mitogen-activated protein kinase kinase 1 interacting protein 1 | <i>MAP2K1IP1</i> | 8649 |
| 202424_at | mitogen-activated protein kinase kinase 2 | <i>MAP2K2</i> | 5605 |
| 207667_s_at | mitogen-activated protein kinase kinase 3 | <i>MAP2K3</i> | 5606 |
| 215498_s_at | mitogen-activated protein kinase kinase 3 | <i>MAP2K3</i> | 5606 |
| 203265_s_at | mitogen-activated protein kinase kinase 4 | <i>MAP2K4</i> | 6416 |
| 214786_at | mitogen-activated protein kinase kinase kinase 1 | <i>MAP3K1</i> | 4214 |
| 205192_at | mitogen-activated protein kinase kinase kinase 14 | <i>MAP3K14</i> | 9020 |
| 235011_at | mitogen-activated protein kinase kinase kinase 2 | <i>MAP3K2</i> | 10746 |
| 227073_at | mitogen-activated protein kinase kinase kinase 2 | <i>MAP3K2</i> | --- |
| 226979_at | mitogen-activated protein kinase kinase kinase 2 | <i>MAP3K2</i> | 10746 |
| 221695_s_at | mitogen-activated protein kinase kinase kinase 2 | <i>MAP3K2</i> | 10746 |
| 227131_at | mitogen-activated protein kinase kinase kinase 3 | <i>MAP3K3</i> | 4215 |
| 203514_at | mitogen-activated protein kinase kinase kinase 3 | <i>MAP3K3</i> | 4215 |
| 203836_s_at | mitogen-activated protein kinase kinase kinase 5 | <i>MAP3K5</i> | 4217 |
| 210284_s_at | mitogen-activated protein kinase kinase kinase 7 interacting protein 2 | <i>MAP3K7IP2</i> | 23118 |
| 212184_s_at | mitogen-activated protein kinase kinase kinase 7 interacting protein 2 | <i>MAP3K7IP2</i> | 23118 |
| 205027_s_at | mitogen-activated protein kinase kinase kinase 8 | <i>MAP3K8</i> | 1326 |
| 235421_at | Mitogen-activated protein kinase kinase kinase 8 /// CDNA clone IMAGE:468948 | <i>MAP3K8</i> | 1326 |
| 212566_at | microtubule-associated protein 4 | <i>MAP4</i> | 4134 |
| 214339_s_at | mitogen-activated protein kinase kinase kinase kinase 1 | <i>MAP4K1</i> | 11184 |
| 222548_s_at | mitogen-activated protein kinase kinase kinase kinase 4 | <i>MAP4K4</i> | 9448 |
| 206571_s_at | mitogen-activated protein kinase kinase kinase kinase 4 | <i>MAP4K4</i> | 9448 |
| 222547_at | mitogen-activated protein kinase kinase kinase kinase 4 | <i>MAP4K4</i> | 9448 |
| 218181_s_at | mitogen-activated protein kinase kinase kinase kinase 4 | <i>MAP4K4</i> | 9448 |
| 202890_at | microtubule-associated protein 7 | <i>MAP7</i> | 9053 |
| 217943_s_at | MAP7 domain containing 1 | <i>MAP7D1</i> | 55700 |
| 218291_at | mitogen-activated protein-binding protein-interacting protein | <i>MAPBP1P</i> | 28956 |
| 207121_s_at | mitogen-activated protein kinase 6 | <i>MAPK6</i> | 5597 |
| 35617_at | mitogen-activated protein kinase 7 | <i>MAPK7</i> | 5598 |
| 207292_s_at | mitogen-activated protein kinase 7 | <i>MAPK7</i> | 5598 |
| 229664_at | mitogen-activated protein kinase 8 | <i>MAPK8</i> | 5599 |
| 202788_at | mitogen-activated protein kinase-activated protein kinase 3 | <i>MAPKAPK3</i> | 7867 |
| 1561937_x_at | Mitogen-activated protein kinase-activated protein kinase 5 | <i>MAPKAPK5</i> | 3500 |
| 225897_at | myristoylated alanine-rich protein kinase C substrate | <i>MARCKS</i> | 4082 |
| 201668_x_at | myristoylated alanine-rich protein kinase C substrate | <i>MARCKS</i> | 4082 |
| 201670_s_at | myristoylated alanine-rich protein kinase C substrate | <i>MARCKS</i> | 4082 |

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|--------------|---|----------|------------|
| 231613_at | MAP/microtubule affinity-regulating kinase 1 | MARK1 | 4139 |
| 226653_at | MAP/microtubule affinity-regulating kinase 1 | MARK1 | 4139 |
| 202568_s_at | MAP/microtubule affinity-regulating kinase 3 | MARK3 | 4140 |
| 55065_at | MAP/microtubule affinity-regulating kinase 4 | MARK4 | 57787 |
| 213672_at | methionyl-tRNA synthetase | MARS | 4141 |
| 207041_at | mannan-binding lectin serine peptidase 2 | MASP2 | 10747 |
| 225613_at | microtubule associated serine/threonine kinase family member 4 | MAST4 | 100128443, |
| 200768_s_at | methionine adenosyltransferase II, alpha | MAT2A | 4144 |
| 206267_s_at | megakaryocyte-associated tyrosine kinase | MATK | 4145 |
| 208403_x_at | MYC associated factor X | MAX | 4149 |
| 203353_s_at | methyl-CpG binding domain protein 1 | MBD1 | 4152 |
| 241813_at | methyl-CpG binding domain protein 1 | MBD1 | 4152 |
| 208595_s_at | methyl-CpG binding domain protein 1 | MBD1 | 4152 |
| 202484_s_at | methyl-CpG binding domain protein 2 | MBD2 | 8932 |
| 227833_s_at | methyl-CpG binding domain protein 6 | MBD6 | 114785 |
| 226076_s_at | methyl-CpG binding domain protein 6 | MBD6 | 114785 |
| 1555594_a_at | muscleblind-like (Drosophila) | MBNL1 | 4154 |
| 201152_s_at | muscleblind-like (Drosophila) | MBNL1 | 4154 |
| 232138_at | Muscleblind-like 2 (Drosophila) | MBNL2 | 10150 |
| 227379_at | membrane bound O-acyltransferase domain containing 1 | MBOAT1 | 154141 |
| 213288_at | membrane bound O-acyltransferase domain containing 2 | MBOAT2 | 129642 |
| 226726_at | membrane bound O-acyltransferase domain containing 2 | MBOAT2 | 129642 |
| 225408_at | myelin basic protein | MBP | 4155 |
| 225407_at | myelin basic protein | MBP | 4155 |
| 1554544_a_at | myelin basic protein | MBP | 4155 |
| 210136_at | myelin basic protein | MBP | 4155 |
| 221467_at | melanocortin 4 receptor | MC4R | 4160 |
| 232092_at | mitochondrial carrier triple repeat 1 | MCART1 | 92014 |
| 214057_at | Myeloid cell leukemia sequence 1 (BCL2-related) | MCL1 | 4170 |
| 215582_x_at | minichromosome maintenance complex component 3 associated protein | MCM3AP | 8888 |
| 215581_s_at | minichromosome maintenance complex component 3 associated protein | MCM3AP | 8888 |
| 220459_at | minichromosome maintenance complex component 3 associated protein antisense | MCM3APAS | 114044 |
| 212142_at | minichromosome maintenance complex component 4 | MCM4 | 4173 |
| 224320_s_at | minichromosome maintenance complex component 8 | MCM8 | 84515 |
| 219673_at | minichromosome maintenance complex component 9 | MCM9 | 254394 |
| 219952_s_at | mucolipin 1 | MCOLN1 | 57192 |
| 1557292_a_at | mucolipin 3 | MCOLN3 | 55283 |
| 1554730_at | multiple C2 domains, transmembrane 1 | MCTP1 | 79772 |
| 220603_s_at | multiple C2 domains, transmembrane 2 | MCTP2 | 55784 |
| 211675_s_at | MyoD family inhibitor domain containing | MDFIC | 29969 |
| 1559942_at | MyoD family inhibitor domain containing | MDFIC | 29969 |
| 235374_at | Malate dehydrogenase 1, NAD (soluble) | MDH1 | 4190 |
| 213761_at | Mdm4, transformed 3T3 cell double minute 1, p53 binding protein (mouse) | MDM1 | 56890 |
| 205386_s_at | Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse) | MDM2 | 4193 |
| 225740_x_at | Mdm4, transformed 3T3 cell double minute 4, p53 binding protein (mouse) | MDM4 | --- |
| 236814_at | Mdm4, transformed 3T3 cell double minute 4, p53 binding protein (mouse) | MDM4 | 4194 |
| 225742_at | Mdm4, transformed 3T3 cell double minute 4, p53 binding protein (mouse) | MDM4 | --- |
| 205655_at | Mdm4, transformed 3T3 cell double minute 4, p53 binding protein (mouse) | MDM4 | 4194 |
| 212693_at | MDN1, midasin homolog (yeast) | MDN1 | 23195 |
| 204059_s_at | malic enzyme 1, NADP(+)-dependent, cytosolic | ME1 | 4199 |
| 210153_s_at | malic enzyme 2, NAD(+)-dependent, mitochondrial | ME2 | 4200 |
| 209397_at | malic enzyme 2, NAD(+)-dependent, mitochondrial | ME2 | 4200 |
| 210154_at | malic enzyme 2, NAD(+)-dependent, mitochondrial | ME2 | 4200 |
| 218061_at | male-enhanced antigen 1 | MEA1 | 4201 |
| 202618_s_at | methyl CpG binding protein 2 (Rett syndrome) | MECP2 | 4204 |
| 202617_s_at | methyl CpG binding protein 2 (Rett syndrome) | MECP2 | 4204 |
| 223780_s_at | mediator complex subunit 13 | MED13 | 9969 |
| 215167_at | mediator complex subunit 14 | MED14 | 9282 |
| 221517_s_at | mediator complex subunit 17 | MED17 | 9440 |
| 223946_at | mediator complex subunit 23 | MED23 | 9439 |
| 242706_s_at | mediator complex subunit 23 | MED23 | 9439 |
| 1553993_s_at | mediator complex subunit 25 | MED25 | 81857 |
| 227538_at | mediator complex subunit 26 | MED26 | 9441 |

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|--------------|--|-----------------|--------------|
| 228992_at | Mediator of RNA polymerase II transcription, subunit 28 homolog (<i>S. cerevisiae</i>) | <i>MED28</i> | 80306 |
| 218438_s_at | mediator complex subunit 28 | <i>MED28</i> | 80306 |
| 222635_s_at | mediator complex subunit 28 | <i>MED28</i> | 80306 |
| 222636_at | mediator complex subunit 28 | <i>MED28</i> | 80306 |
| 219318_x_at | mediator complex subunit 31 | <i>MED31</i> | 51003 |
| 213696_s_at | mediator complex subunit 8 | <i>MED8</i> | 112950 |
| 213126_at | mediator complex subunit 8 | <i>MED8</i> | 112950 |
| 218372_at | mediator complex subunit 9 | <i>MED9</i> | 55090 |
| 1553978_at | myocyte enhancer factor 2B | <i>MEF2B</i> | 100133072 , |
| 209199_s_at | myocyte enhancer factor 2C | <i>MEF2C</i> | 4208 |
| 209200_at | myocyte enhancer factor 2C | <i>MEF2C</i> | 4208 |
| 207968_s_at | myocyte enhancer factor 2C | <i>MEF2C</i> | 4208 |
| 203004_s_at | myocyte enhancer factor 2D | <i>MEF2D</i> | 4209 |
| 225641_at | myocyte enhancer factor 2D | <i>MEF2D</i> | 4209 |
| 203003_at | myocyte enhancer factor 2D | <i>MEF2D</i> | 4209 |
| 212732_at | maternally expressed 3 | <i>MEG3</i> | 55384 |
| 237945_at | Maternally expressed (in Callipyge) 8 | <i>MEG8</i> | --- |
| 236517_at | multiple EGF-like-domains 10 | <i>MEGF10</i> | 84466 |
| 226869_at | multiple EGF-like-domains 6 | <i>MEGF6</i> | 1953 |
| 207480_s_at | Meis homeobox 2 | <i>MEIS2</i> | 4212 |
| 214077_x_at | Meis homeobox 3 pseudogene 1 | <i>MEIS3P1</i> | 4213 |
| 202645_s_at | multiple endocrine neoplasia I | <i>MEN1</i> | 4221 |
| 233079_at | c-mer proto-oncogene tyrosine kinase | <i>MERTK</i> | 10461 |
| 1556015_a_at | mesoderm posterior 2 homolog (mouse) | <i>MESP2</i> | 145873 |
| 202016_at | mesoderm specific transcript homolog (mouse) | <i>MEST</i> | 4232 |
| 212673_at | methionyl aminopeptidase 1 | <i>METAP1</i> | 23173 |
| 209861_s_at | methionyl aminopeptidase 2 | <i>METAP2</i> | 10988 |
| 226744_at | methyltransferase 10 domain containing | <i>METT10D</i> | 79066 |
| 238931_at | methyltransferase 10 domain containing | <i>METT10D</i> | 79066 |
| 218366_x_at | methyltransferase 11 domain containing 1 | <i>METT11D1</i> | 64745 /// 7: |
| 1565898_at | Methyltransferase 5 domain containing 1 | <i>METT5D1</i> | 196074 |
| 1565900_at | Methyltransferase 5 domain containing 1 | <i>METT5D1</i> | 196074 |
| 238773_at | methyltransferase 5 domain containing 1 | <i>METT5D1</i> | 196074 |
| 209265_s_at | methyltransferase like 3 | <i>METTL3</i> | 56339 |
| 219698_s_at | methyltransferase like 4 | <i>METTL4</i> | 64863 |
| 232194_at | methyltransferase like 4 | <i>METTL4</i> | 64863 |
| 1553689_s_at | methyltransferase like 6 | <i>METTL6</i> | 131965 |
| 207761_s_at | methyltransferase like 7A | <i>METTL7A</i> | 25840 |
| 209703_x_at | methyltransferase like 7A | <i>METTL7A</i> | 25840 |
| 1554667_s_at | methyltransferase like 8 | <i>METTL8</i> | 79828 |
| 217868_s_at | methyltransferase like 9 | <i>METTL9</i> | 51108 |
| 230395_at | Methyltransferase like 9 | <i>METTL9</i> | --- |
| 218247_s_at | mex-3 homolog C (<i>C. elegans</i>) | <i>MEX3C</i> | 51320 |
| 203406_at | microfibrillar-associated protein 1 | <i>MFAP1</i> | 4236 |
| 205442_at | microfibrillar-associated protein 3-like | <i>MFAP3L</i> | 9848 |
| 204152_s_at | MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase | <i>MFNG</i> | 4242 |
| 224286_at | membrane frizzled-related protein | <i>MFRP</i> | 114902 /// § |
| 223242_s_at | major facilitator superfamily domain containing 11 | <i>MFSD11</i> | 79157 |
| 225316_at | major facilitator superfamily domain containing 2 | <i>MFSD2</i> | 84879 |
| 228282_at | Major facilitator superfamily domain containing 8 | <i>MFSD8</i> | 256471 |
| 212945_s_at | MAX gene associated | <i>MGA</i> | 23269 |
| 206522_at | maltase-glucoamylase (alpha-glucosidase) | <i>MGAM</i> | 642103 /// § |
| 201126_s_at | mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase | <i>MGAT1</i> | 4245 |
| 224429_x_at | pseudogene MGC10997 | <i>MGC10997</i> | --- |
| 223682_s_at | hypothetical protein MGC11102 | <i>MGC11102</i> | 84285 |
| 224452_s_at | hypothetical protein LOC84792 | <i>MGC12966</i> | 84792 |
| 225052_at | hypothetical protein MGC14327 | <i>MGC14327</i> | 94107 |
| 214696_at | hypothetical protein MGC14376 | <i>MGC14376</i> | 84981 |
| 212890_at | hypothetical protein MGC15523 | <i>MGC15523</i> | 124565 |
| 1561850_at | hypothetical protein MGC15613 | <i>MGC15613</i> | 84963 |
| 1553708_at | hypothetical protein MGC16075 | <i>MGC16075</i> | 84847 |
| 232822_x_at | Hypothetical protein MGC16121 | <i>MGC16121</i> | 84848 |
| 226126_at | hypothetical protein MGC16169 | <i>MGC16169</i> | 93627 |

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|--------------|--|---|--------------|
| 234011_at | hypothetical protein MGC16384 | <i>MGC16384</i> | 114130 |
| 1552330_at | hypothetical protein MGC16385 | <i>MGC16385</i> | 92806 |
| 1563863_x_at | TFS2-M domain-containing protein 1 | <i>MGC17403</i> | 170082 |
| 230807_at | hypothetical protein MGC20983 | <i>MGC20983</i> | 115948 |
| 228551_at | hypothetical protein MGC24039 | <i>MGC24039</i> | 160518 |
| 232568_at | hypothetical protein MGC24103 | <i>MGC24103</i> | 158295 |
| 1559170_at | Similar to ankyrin repeat domain 20A | <i>MGC26718</i> | 440482 |
| 218624_s_at | hypothetical protein MGC2752 | <i>MGC2752</i> | 65996 |
| 230528_s_at | hypothetical protein MGC2752 | <i>MGC2752</i> | 65996 |
| 210484_s_at | tumor necrosis factor receptor superfamily, member 10c, decoy without an intr. | <i>MGC31957</i> /// <i>TNF</i> 254896 /// § | |
| 225003_at | hypothetical protein MGC3205 /// MBC3205 | <i>MGC3205</i> /// <i>UNQ</i> 374882 /// § | |
| 228077_at | hypothetical protein MGC3207 | <i>MGC3207</i> | 84245 |
| 220305_at | hypothetical protein MGC3260 | <i>MGC3260</i> | 57506 |
| 229741_at | Hypothetical protein MGC3260 | <i>MGC3260</i> | 57506 |
| 231043_at | similar to hypothetical protein | <i>MGC33657</i> | 200373 |
| 226657_at | transcript expressed during hematopoiesis 2 | <i>MGC33894</i> | 256302 |
| 219766_at | hypothetical protein MGC4093 | <i>MGC4093</i> | 80776 |
| 239104_at | hypothetical locus MGC42157 | <i>MGC42157</i> | 439933 |
| 1564362_x_at | hypothetical protein MGC46336 | <i>MGC46336</i> | 283933 |
| 207775_at | hypothetical protein MGC4859 similar to HSPA8 | <i>MGC4859</i> | 79150 |
| 1563474_at | hypothetical protein MGC50559 | <i>MGC50559</i> | 254013 |
| 225409_at | hypothetical protein MGC52110 | <i>MGC52110</i> | 493753 |
| 237033_at | hypothetical protein MGC52498 | <i>MGC52498</i> | 348378 |
| 229711_s_at | hypothetical protein MGC5370 | <i>MGC5370</i> | 84825 |
| 221477_s_at | hypothetical protein MGC5618 | <i>MGC5618</i> | 6648 |
| 227983_at | hypothetical protein MGC7036 | <i>MGC7036</i> | 196383 |
| 242136_x_at | Hypothetical LOC403340 | <i>MGC70870</i> | 403340 |
| 224573_at | similar to DNA segment, Chr 11, Brigham & Womens Genetics 0434 expressed | <i>MGC71993</i> | 440400 |
| 244741_s_at | Hypothetical protein MGC9913 | <i>MGC9913</i> | 386759 |
| 200899_s_at | meningioma expressed antigen 5 (hyaluronidase) | <i>MGEA5</i> | 10724 |
| 223494_at | meningioma expressed antigen 5 (hyaluronidase) | <i>MGEA5</i> | 10724 |
| 200898_s_at | meningioma expressed antigen 5 (hyaluronidase) | <i>MGEA5</i> | 10724 |
| 211026_s_at | monoglyceride lipase | <i>MGLL</i> | 11343 |
| 225102_at | monoglyceride lipase | <i>MGLL</i> | 11343 |
| 1565162_s_at | microsomal glutathione S-transferase 1 | <i>MGST1</i> | 4257 |
| 224918_x_at | microsomal glutathione S-transferase 1 | <i>MGST1</i> | 4257 |
| 231736_x_at | microsomal glutathione S-transferase 1 | <i>MGST1</i> | 4257 |
| 204168_at | microsomal glutathione S-transferase 2 | <i>MGST2</i> | 4258 |
| 244122_at | Microsomal glutathione S-transferase 3 | <i>MGST3</i> | 4259 |
| 212310_at | melanoma inhibitory activity family, member 3 | <i>MIA3</i> | 375056 |
| 228658_at | myocardial infarction associated transcript (non-protein coding) | <i>MIAT</i> | 440823 |
| 237322_at | myocardial infarction associated transcript (non-protein coding) | <i>MIAT</i> | 440823 |
| 1558645_at | mindbomb homolog 1 (Drosophila) | <i>MIB1</i> | 57534 |
| 224722_at | mindbomb homolog 1 (Drosophila) | <i>MIB1</i> | 57534 |
| 224726_at | mindbomb homolog 1 (Drosophila) | <i>MIB1</i> | 57534 |
| 228261_at | mindbomb homolog 2 (Drosophila) | <i>MIB2</i> | 142678 |
| 226644_at | mindbomb homolog 2 (Drosophila) | <i>MIB2</i> | 142678 |
| 212472_at | microtubule associated monooxygenase, calponin and LIM domain containing 2 | <i>MICAL2</i> | 9645 |
| 212473_s_at | microtubule associated monooxygenase, calponin and LIM domain containing 2 | <i>MICAL2</i> | 9645 |
| 55081_at | MICAL-like 1 | <i>MICALL1</i> | 85377 |
| 1555105_a_at | mesoderm induction early response 1 homolog (Xenopus laevis) | <i>MIER1</i> | 57708 |
| 217871_s_at | macrophage migration inhibitory factor (glycosylation-inhibiting factor) | <i>MIF</i> | 284889 /// § |
| 213189_at | MYC induced nuclear antigen | <i>MINA</i> | 84864 |
| 213188_s_at | MYC induced nuclear antigen | <i>MINA</i> | 84864 |
| 229132_at | MYC induced nuclear antigen | <i>MINA</i> | 84864 |
| 209585_s_at | multiple inositol polyphosphate histidine phosphatase, 1 | <i>MINPP1</i> | 9562 |
| 1570052_at | mirror-image polydactyly 1 | <i>MIPOL1</i> | 145282 |
| 224917_at | microRNA 21 | <i>MIRN21</i> | 406991 |
| 220990_s_at | transmembrane protein 49 /// microRNA 21 | <i>MIRN21</i> /// <i>TMEM</i> 406991 /// § | |
| 226329_s_at | MIT, microtubule interacting and transport, domain containing 1 | <i>MITD1</i> | 129531 |
| 226066_at | microphthalmia-associated transcription factor | <i>MITF</i> | 4286 |
| 207233_s_at | microphthalmia-associated transcription factor | <i>MITF</i> | 4286 |
| 224714_at | MKI67 (FHA domain) interacting nucleolar phosphoprotein | <i>MKI67IP</i> | 84365 |

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|--------------|---|----------------|--------|
| 1558777_at | MKL/myocardin-like 2 | <i>MKL2</i> | 57496 |
| 209467_s_at | MAP kinase interacting serine/threonine kinase 1 | <i>MKNK1</i> | 8569 |
| 243256_at | MAP kinase interacting serine/threonine kinase 1 | <i>MKNK1</i> | 8569 |
| 223199_at | MAP kinase interacting serine/threonine kinase 2 | <i>MKNK2</i> | 2872 |
| 218205_s_at | MAP kinase interacting serine/threonine kinase 2 | <i>MKNK2</i> | 2872 |
| 209845_at | makorin, ring finger protein, 1 | <i>MKRN1</i> | 23608 |
| 218071_s_at | makorin, ring finger protein, 2 | <i>MKRN2</i> | 23609 |
| 1555820_a_at | Meckel syndrome, type 1 | <i>MKS1</i> | 54903 |
| 239468_at | mohawk homeobox | <i>MKX</i> | 283078 |
| 204783_at | myeloid leukemia factor 1 | <i>MLF1</i> | 4291 |
| 218883_s_at | MLF1 interacting protein | <i>MLF1IP</i> | 79682 |
| 229305_at | MLF1 interacting protein | <i>MLF1IP</i> | 79682 |
| 229304_s_at | MLF1 interacting protein | <i>MLF1IP</i> | 79682 |
| 200948_at | myeloid leukemia factor 2 | <i>MLF2</i> | 8079 |
| 204838_s_at | mutL homolog 3 (E. coli) | <i>MLH3</i> | 27030 |
| 238025_at | mixed lineage kinase domain-like | <i>MLKL</i> | 197259 |
| 1565436_s_at | myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila) | <i>MLL</i> | 4297 |
| 226981_at | Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila) | <i>MLL</i> | 4297 |
| 212080_at | Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila) | <i>MLL</i> | 4297 |
| 212076_at | myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila) | <i>MLL</i> | 4297 |
| 222414_at | myeloid/lymphoid or mixed-lineage leukemia 3 | <i>MLL3</i> | 58508 |
| 222413_s_at | myeloid/lymphoid or mixed-lineage leukemia 3 | <i>MLL3</i> | 58508 |
| 222415_at | myeloid/lymphoid or mixed-lineage leukemia 3 | <i>MLL3</i> | 58508 |
| 226100_at | myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homolog, Drosophila) | <i>MLL5</i> | 55904 |
| 223190_s_at | myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homolog, Drosophila) | <i>MLL5</i> | 55904 |
| 223189_x_at | myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homolog, Drosophila) | <i>MLL5</i> | 55904 |
| 205408_at | myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); t | <i>MLLT10</i> | 8028 |
| 204918_s_at | myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); t | <i>MLLT3</i> | 4300 |
| 204917_s_at | myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); t | <i>MLLT3</i> | 4300 |
| 225628_s_at | myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); t | <i>MLLT6</i> | 4302 |
| 239108_at | Male sterility domain containing 1 | <i>MLSTD1</i> | 55711 |
| 220615_s_at | male sterility domain containing 1 | <i>MLSTD1</i> | 55711 |
| 224865_at | male sterility domain containing 2 | <i>MLSTD2</i> | 84188 |
| 224866_at | male sterility domain containing 2 | <i>MLSTD2</i> | 84188 |
| 1558014_s_at | male sterility domain containing 2 | <i>MLSTD2</i> | 84188 |
| 217909_s_at | MAX-like protein X | <i>MLX</i> | 6945 |
| 213708_s_at | MAX-like protein X | <i>MLX</i> | 6945 |
| 217910_x_at | MAX-like protein X | <i>MLX</i> | 6945 |
| 210752_s_at | MAX-like protein X | <i>MLX</i> | 6945 |
| 225157_at | MLX interacting protein | <i>MLXIP</i> | 22877 |
| 202519_at | MLX interacting protein | <i>MLXIP</i> | 22877 |
| 242750_at | methylmalonic aciduria (cobalamin deficiency) cblA type | <i>MMAA</i> | 166785 |
| 203434_s_at | membrane metallo-endorpeptidase | <i>MME</i> | 4311 |
| 203435_s_at | membrane metallo-endorpeptidase | <i>MME</i> | 4311 |
| 160020_at | matrix metallopeptidase 14 (membrane-inserted) | <i>MMP14</i> | 4323 |
| 207012_at | matrix metallopeptidase 16 (membrane-inserted) | <i>MMP16</i> | 4325 |
| 207890_s_at | matrix metallopeptidase 25 | <i>MMP25</i> | 64386 |
| 220541_at | matrix metallopeptidase 26 | <i>MMP26</i> | 56547 |
| 207329_at | matrix metallopeptidase 8 (neutrophil collagenase) | <i>MMP8</i> | 4317 |
| 203936_s_at | matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) | <i>MMP9</i> | 4318 |
| 236262_at | multimerin 2 | <i>MMRN2</i> | 79812 |
| 219703_at | meiosis-specific nuclear structural 1 | <i>MNS1</i> | 55329 |
| 204206_at | MAX binding protein | <i>MNT</i> | 4335 |
| 212508_at | modulator of apoptosis 1 | <i>MOAP1</i> | 64112 |
| 201297_s_at | MOB1, Mps One Binder kinase activator-like 1B (yeast) | <i>MOBKL1B</i> | 55233 |
| 201298_s_at | MOB1, Mps One Binder kinase activator-like 1B (yeast) | <i>MOBKL1B</i> | 55233 |
| 235163_at | MOB1, Mps One Binder kinase activator-like 2A (yeast) | <i>MOBKL2A</i> | 126308 |
| 225530_at | MOB1, Mps One Binder kinase activator-like 2A (yeast) | <i>MOBKL2A</i> | 126308 |
| 226844_at | MOB1, Mps One Binder kinase activator-like 2B (yeast) | <i>MOBKL2B</i> | 79817 |
| 1563521_at | MOB1, Mps One Binder kinase activator-like 2B (yeast) | <i>MOBKL2B</i> | 79817 |
| 202918_s_at | MOB1, Mps One Binder kinase activator-like 3 (yeast) | <i>MOBKL3</i> | 25843 |
| 212754_s_at | MON2 homolog (S. cerevisiae) | <i>MON2</i> | 23041 |
| 220850_at | MORC family CW-type zinc finger 1 | <i>MORC1</i> | 27136 |

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|--------------|---|-----------------|--------------|
| 203956_at | MORC family CW-type zinc finger 2 | <i>MORC2</i> | 22880 |
| 213000_at | MORC family CW-type zinc finger 3 | <i>MORC3</i> | 23515 |
| 243683_at | Mortality factor 4 like 2 | <i>MORF4L2</i> | 9643 |
| 243857_at | Mortality factor 4 like 2 | <i>MORF4L2</i> | 9643 |
| 201994_at | mortality factor 4 like 2 | <i>MORF4L2</i> | 9643 |
| 218853_s_at | motile sperm domain containing 1 | <i>MOSPD1</i> | 56180 |
| 1557455_s_at | motile sperm domain containing 1 | <i>MOSPD1</i> | 56180 |
| 226841_at | macrophage expressed gene 1 | <i>MPEG1</i> | 219972 |
| 226818_at | macrophage expressed gene 1 | <i>MPEG1</i> | 219972 |
| 205235_s_at | M-phase phosphoprotein 1 | <i>MPHOSPH1</i> | 9585 |
| 202472_at | mannose phosphate isomerase | <i>MPI</i> | 4351 |
| 202974_at | membrane protein, palmitoylated 1, 55kDa | <i>MPP1</i> | 4354 |
| 226092_at | membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5) | <i>MPP5</i> | 64398 |
| 209858_x_at | metallophosphoesterase 1 | <i>MPPE1</i> | 65258 |
| 213727_x_at | metallophosphoesterase 1 | <i>MPPE1</i> | 65258 |
| 206764_x_at | metallophosphoesterase 1 | <i>MPPE1</i> | 65258 |
| 215692_s_at | metallophosphoesterase domain containing 2 | <i>MPPED2</i> | 744 |
| 1559167_x_at | MPV17 mitochondrial membrane protein-like | <i>MPV17L</i> | 255027 |
| 210210_at | myelin protein zero-like 1 | <i>MPZL1</i> | 9019 |
| 203780_at | myelin protein zero-like 2 | <i>MPZL2</i> | 10205 |
| 230518_at | myelin protein zero-like 2 | <i>MPZL2</i> | 10205 |
| 227747_at | myelin protein zero-like 3 | <i>MPZL3</i> | 196264 |
| 207566_at | major histocompatibility complex, class I-related | <i>MR1</i> | 3140 |
| 242456_at | MRE11 meiotic recombination 11 homolog A (<i>S. cerevisiae</i>) | <i>MRE11A</i> | 4361 |
| 232682_at | melanoregulin | <i>MREG</i> | 55686 |
| 226091_s_at | Mof4 family associated protein 1 | <i>MRFAP1</i> | 93621 |
| 1553504_at | MAS-related GPR, member X4 | <i>MRGPRX4</i> | 117196 |
| 214771_x_at | myosin phosphatase-Rho interacting protein | <i>M-RIP</i> | 23164 |
| 212197_x_at | myosin phosphatase-Rho interacting protein | <i>M-RIP</i> | 23164 |
| 204386_s_at | mitochondrial ribosomal protein 63 | <i>MRP63</i> | 78988 |
| 218049_s_at | mitochondrial ribosomal protein L13 | <i>MRPL13</i> | 28998 |
| 220526_s_at | mitochondrial ribosomal protein L20 | <i>MRPL20</i> | 55052 /// 64 |
| 213897_s_at | mitochondrial ribosomal protein L23 | <i>MRPL23</i> | 6150 |
| 225260_s_at | mitochondrial ribosomal protein L32 | <i>MRPL32</i> | 64983 |
| 218558_s_at | mitochondrial ribosomal protein L39 | <i>MRPL39</i> | 54148 |
| 223742_at | mitochondrial ribosomal protein L4 | <i>MRPL4</i> | 51073 |
| 227186_s_at | mitochondrial ribosomal protein L41 | <i>MRPL41</i> | 64975 |
| 230027_s_at | mitochondrial ribosomal protein L43 | <i>MRPL43</i> | 84545 |
| 223481_s_at | mitochondrial ribosomal protein L47 | <i>MRPL47</i> | 57129 |
| 225581_s_at | mitochondrial ribosomal protein L50 | <i>MRPL50</i> | 54534 |
| 225580_at | mitochondrial ribosomal protein L50 | <i>MRPL50</i> | 54534 |
| 225719_s_at | mitochondrial ribosomal protein L55 | <i>MRPL55</i> | 128308 |
| 209609_s_at | mitochondrial ribosomal protein L9 | <i>MRPL9</i> | 65005 |
| 211595_s_at | mitochondrial ribosomal protein S11 | <i>MRPS11</i> | 64963 |
| 226296_s_at | mitochondrial ribosomal protein S15 | <i>MRPS15</i> | 64960 |
| 222499_at | mitochondrial ribosomal protein S16 | <i>MRPS16</i> | 51021 |
| 218982_s_at | mitochondrial ribosomal protein S17 | <i>MRPS17</i> | 51373 |
| 218385_at | mitochondrial ribosomal protein S18A | <i>MRPS18A</i> | 55168 |
| 222997_s_at | mitochondrial ribosomal protein S21 | <i>MRPS21</i> | 148523 /// 5 |
| 223156_at | mitochondrial ribosomal protein S23 | <i>MRPS23</i> | 51649 |
| 218398_at | mitochondrial ribosomal protein S30 | <i>MRPS30</i> | 10884 |
| 217942_at | mitochondrial ribosomal protein S35 | <i>MRPS35</i> | 60488 |
| 224333_s_at | mitochondrial ribosomal protein S5 | <i>MRPS5</i> | 64969 |
| 217932_at | mitochondrial ribosomal protein S7 | <i>MRPS7</i> | 51081 |
| 218538_s_at | MRS2-like, magnesium homeostasis factor (<i>S. cerevisiae</i>) | <i>MRS2L</i> | 57380 |
| 218536_at | MRS2-like, magnesium homeostasis factor (<i>S. cerevisiae</i>) | <i>MRS2L</i> | 57380 |
| 228592_at | membrane-spanning 4-domains, subfamily A, member 1 | <i>MS4A1</i> | 931 |
| 217418_x_at | membrane-spanning 4-domains, subfamily A, member 1 | <i>MS4A1</i> | 931 |
| 228599_at | membrane-spanning 4-domains, subfamily A, member 1 | <i>MS4A1</i> | 931 |
| 210254_at | membrane-spanning 4-domains, subfamily A, member 3 (hematopoietic cell-sp | <i>MS4A3</i> | 932 |
| 1554892_a_at | membrane-spanning 4-domains, subfamily A, member 3 (hematopoietic cell-sp | <i>MS4A3</i> | 932 |
| 202911_at | mutS homolog 6 (<i>E. coli</i>) | <i>MSH6</i> | 2956 |
| 225240_s_at | musashi homolog 2 (<i>Drosophila</i>) | <i>MSI2</i> | 124540 |

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|-------------|--|-----------------------|-------------|
| 224765_at | male-specific lethal-1 homolog | <i>MSL-1</i> | 339287 |
| 212708_at | male-specific lethal-1 homolog | <i>MSL-1</i> | 339287 |
| 214009_at | male-specific lethal 3-like 1 (Drosophila) | <i>MSL3L1</i> | 10943 |
| 207551_s_at | male-specific lethal 3-like 1 (Drosophila) | <i>MSL3L1</i> | 10943 |
| 214770_at | macrophage scavenger receptor 1 | <i>MSR1</i> | 4481 |
| 208423_s_at | macrophage scavenger receptor 1 | <i>MSR1</i> | 4481 |
| 219281_at | methionine sulfoxide reductase A | <i>MSRA</i> | 4482 |
| 218773_s_at | methionine sulfoxide reductase B2 | <i>MSRB2</i> | 22921 |
| 219451_at | methionine sulfoxide reductase B2 | <i>MSRB2</i> | 22921 |
| 225782_at | methionine sulfoxide reductase B3 | <i>MSRB3</i> | 253827 |
| 213382_at | macrophage stimulating 1 (hepatocyte growth factor-like) /// macrophage stim | <i>MST1 /// MSTP9</i> | 11223 /// 4 |
| 228337_at | MSTP101 | <i>MST101</i> | 114825 |
| 215563_s_at | macrophage stimulating, pseudogene 9 | <i>MSTP9</i> | 11223 |
| 221953_s_at | Metallothionein 1 pseudogene 3 | <i>MT1P3</i> | 10893 |
| 244272_s_at | Membrane targeting (tandem) C2 domain containing 1 | <i>MTAC2D1</i> | 123036 |
| 211364_at | methylthioadenosine phosphorylase | <i>MTAP</i> | 4507 |
| 1563614_at | Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse) binc | <i>MTBP</i> | 27085 |
| 217772_s_at | mitochondrial carrier homolog 2 (C. elegans) | <i>MTCH2</i> | 23788 |
| 216862_s_at | mature T-cell proliferation 1 | <i>MTCP1</i> | 100133946 , |
| 212248_at | CDNA FLJ41088 fis, clone ASTRO2002459 /// Metadherin | <i>MTDH</i> | 92140 |
| 219363_s_at | MTERF domain containing 1 | <i>MTERFD1</i> | 51001 |
| 226486_at | MTERF domain containing 2 | <i>MTERFD2</i> | 130916 |
| 225346_at | MTERF domain containing 3 | <i>MTERFD3</i> | 80298 |
| 225341_at | MTERF domain containing 3 | <i>MTERFD3</i> | 80298 |
| 209704_at | metal response element binding transcription factor 2 | <i>MTF2</i> | 22823 |
| 203346_s_at | metal response element binding transcription factor 2 | <i>MTF2</i> | 22823 |
| 209705_at | metal response element binding transcription factor 2 | <i>MTF2</i> | 22823 |
| 203345_s_at | metal response element binding transcription factor 2 | <i>MTF2</i> | 22823 |
| 203347_s_at | metal response element binding transcription factor 2 | <i>MTF2</i> | 22823 |
| 203208_s_at | mitochondrial fission regulator 1 | <i>MTFR1</i> | 9650 |
| 238762_at | methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2-like | <i>MTHFD2L</i> | 441024 |
| 242370_at | methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2-like | <i>MTHFD2L</i> | 441024 |
| 220346_at | methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2-like | <i>MTHFD2L</i> | 441024 |
| 239035_at | 5,10-methylenetetrahydrofolate reductase (NADPH) | <i>MTHFR</i> | 4524 |
| 203433_at | 5,10-methenyltetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligas | <i>MTHFS</i> | 10588 |
| 218879_s_at | methenyltetrahydrofolate synthetase domain containing | <i>MTHFSD</i> | 64779 |
| 203095_at | mitochondrial translational initiation factor 2 | <i>MTIF2</i> | 4528 |
| 204101_at | myotubularin 1 | <i>MTM1</i> | 4534 |
| 36920_at | myotubularin 1 | <i>MTM1</i> | 4534 |
| 213511_s_at | myotubularin related protein 1 | <i>MTMR1</i> | 8776 |
| 216095_x_at | myotubularin related protein 1 | <i>MTMR1</i> | 8776 |
| 214975_s_at | myotubularin related protein 1 | <i>MTMR1</i> | 8776 |
| 225810_at | myotubularin related protein 10 | <i>MTMR10</i> | 54893 |
| 225232_at | myotubularin related protein 12 | <i>MTMR12</i> | 54545 |
| 220953_s_at | myotubularin related protein 12 | <i>MTMR12</i> | 54545 |
| 222143_s_at | myotubularin related protein 14 | <i>MTMR14</i> | 64419 |
| 232342_at | Myotubularin related protein 14 | <i>MTMR14</i> | 64419 |
| 239289_x_at | myotubularin related protein 15 | <i>MTMR15</i> | 22909 |
| 203678_at | myotubularin related protein 15 | <i>MTMR15</i> | 22909 |
| 203211_s_at | myotubularin related protein 2 | <i>MTMR2</i> | 8898 |
| 202198_s_at | myotubularin related protein 3 | <i>MTMR3</i> | 8897 |
| 202197_at | myotubularin related protein 3 | <i>MTMR3</i> | 8897 |
| 211507_s_at | myotubularin related protein 3 | <i>MTMR3</i> | 8897 |
| 214268_s_at | myotubularin related protein 4 | <i>MTMR4</i> | 9110 |
| 212277_at | myotubularin related protein 4 | <i>MTMR4</i> | 9110 |
| 214429_at | myotubularin related protein 6 | <i>MTMR6</i> | 9107 |
| 217292_at | myotubularin related protein 7 | <i>MTMR7</i> | 9108 |
| 233101_at | myotubularin related protein 9 | <i>MTMR9</i> | 66036 |
| 204837_at | myotubularin related protein 9 | <i>MTMR9</i> | 66036 |
| 213278_at | myotubularin related protein 9 | <i>MTMR9</i> | 66036 |
| 233665_x_at | mitochondrial translation optimization 1 homolog (S. cerevisiae) | <i>MTO1</i> | 25821 |
| 218716_x_at | mitochondrial translation optimization 1 homolog (S. cerevisiae) | <i>MTO1</i> | 25821 |
| 224430_s_at | mitochondrial translation optimization 1 homolog (S. cerevisiae) | <i>MTO1</i> | 25821 |

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|--------------|---|-------------------------|--------------|
| 223172_s_at | mitochondrial protein 18 kDa | <i>MTP18</i> | 51537 |
| 225215_s_at | mitochondrial translational release factor 1-like | <i>MTRF1L</i> | 54516 |
| 203200_s_at | 5-methyltetrahydrofolate-homocysteine methyltransferase reductase | <i>MTRR</i> | 4552 |
| 203517_at | metaxin 2 | <i>MTX2</i> | 10651 |
| 217117_x_at | mucin 3A, cell surface associated | <i>MUC3A</i> | 4584 |
| 230461_s_at | Melanoma associated antigen (mutated) 1 | <i>MUM1</i> | --- |
| 207727_s_at | mutY homolog (E. coli) | <i>MUTYH</i> | 4595 |
| 203027_s_at | mevalonate (diphospho) decarboxylase | <i>MVD</i> | 4597 |
| 231878_at | Major vault protein | <i>MVP</i> | 79447 |
| 202086_at | myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse) | <i>MX1</i> | 4599 |
| 204994_at | myxovirus (influenza virus) resistance 2 (mouse) | <i>MX2</i> | 4600 |
| 228846_at | MAX dimerization protein 1 | <i>MXD1</i> | 4084 |
| 226275_at | MAX dimerization protein 1 | <i>MXD1</i> | 4084 |
| 206877_at | MAX dimerization protein 1 | <i>MXD1</i> | 4084 |
| 210778_s_at | MAX dimerization protein 4 | <i>MXD4</i> | 10608 |
| 212347_x_at | MAX dimerization protein 4 | <i>MXD4</i> | 10608 |
| 202364_at | MAX interactor 1 | <i>MXI1</i> | 4601 |
| 224920_x_at | myeloid-associated differentiation marker | <i>MYADM</i> | 91663 |
| 225673_at | myeloid-associated differentiation marker | <i>MYADM</i> | 91663 |
| 204798_at | v-myb myeloblastosis viral oncogene homolog (avian) | <i>MYB</i> | 4602 |
| 213906_at | v-myb myeloblastosis viral oncogene homolog (avian)-like 1 | <i>MYBL1</i> | 4603 |
| 203361_s_at | c-myc binding protein | <i>MYCBP</i> | 26292 |
| 203359_s_at | c-myc binding protein | <i>MYCBP</i> | 26292 |
| 203360_s_at | c-myc binding protein | <i>MYCBP</i> | 26292 |
| 201959_s_at | MYC binding protein 2 | <i>MYCBP2</i> | 23077 |
| 201960_s_at | MYC binding protein 2 | <i>MYCBP2</i> | 23077 |
| 1557370_s_at | MYC binding protein 2 | <i>MYCBP2</i> | 23077 |
| 231947_at | myc target 1 | <i>MYCT1</i> | 80177 |
| 222772_at | myelin expression factor 2 | <i>MYEF2</i> | 50804 |
| 229464_at | myelin expression factor 2 | <i>MYEF2</i> | 50804 |
| 226845_s_at | myeloma overexpressed 2 | <i>MYEOV2</i> | 150678 |
| 223130_s_at | myosin regulatory light chain interacting protein | <i>MYLIP</i> | 29116 |
| 228098_s_at | myosin regulatory light chain interacting protein | <i>MYLIP</i> | 29116 |
| 223129_x_at | myosin regulatory light chain interacting protein | <i>MYLIP</i> | 29116 |
| 220319_s_at | myosin regulatory light chain interacting protein | <i>MYLIP</i> | 29116 |
| 224206_x_at | myoneurin | <i>MYNN</i> | 55892 |
| 218926_at | myoneurin | <i>MYNN</i> | 55892 |
| 59375_at | myosin XVB pseudogene | <i>MYO15B</i> | 80022 |
| 202039_at | TGFB1-induced anti-apoptotic factor 1 /// myosin XVIII A | <i>MYO18A /// TIAF1</i> | 399687 /// 5 |
| 212364_at | myosin IB | <i>MYO1B</i> | 4430 |
| 212365_at | myosin IB | <i>MYO1B</i> | 4430 |
| 227761_at | myosin VA (heavy chain 12, myosin) | <i>MYO5A</i> | 4644 |
| 217417_at | myosin VA (heavy chain 12, myosin) | <i>MYO5A</i> | 4644 |
| 204527_at | myosin VA (heavy chain 12, myosin) | <i>MYO5A</i> | 4644 |
| 225299_at | myosin VB | <i>MYO5B</i> | 4645 |
| 1570141_at | myosin VB | <i>MYO5B</i> | 4645 |
| 217297_s_at | myosin IXB | <i>MYO9B</i> | 4650 |
| 208452_x_at | myosin IXB | <i>MYO9B</i> | 4650 |
| 225947_at | myosin head domain containing 1 | <i>MYOHD1</i> | 80179 |
| 219728_at | myotilin | <i>MYOT</i> | 9499 |
| 225760_at | myb-like, SWIRM and MPN domains 1 | <i>MYSM1</i> | 114803 |
| 237179_at | myelin transcription factor 1 /// protein-L-isoaspartate (D-aspartate) O-methyltransferase | <i>MYT1 /// PCMTD2</i> | 55251 |
| 221867_at | Nedd4 binding protein 1 | <i>N4BP1</i> | 9683 |
| 32069_at | Nedd4 binding protein 1 | <i>N4BP1</i> | 9683 |
| 204601_at | Nedd4 binding protein 1 | <i>N4BP1</i> | 9683 |
| 1554504_at | N-acetylated alpha-linked acidic dipeptidase 2 | <i>NAALAD2</i> | 10003 |
| 228424_at | N-acetylated alpha-linked acidic dipeptidase-like 1 | <i>NAALADL1</i> | 10004 |
| 211139_s_at | NGFI-A binding protein 1 (EGR1 binding protein 1) | <i>NAB1</i> | 4664 |
| 208047_s_at | NGFI-A binding protein 1 (EGR1 binding protein 1) | <i>NAB1</i> | 4664 |
| 200735_x_at | nascent polypeptide-associated complex alpha subunit | <i>NACA</i> | 4666 |
| 208635_x_at | nascent polypeptide-associated complex alpha subunit | <i>NACA</i> | 4666 |
| 222018_at | nascent polypeptide-associated complex alpha subunit /// nascent-polypeptide-associated complex 2 | <i>NACA /// NACA2</i> | 342538 /// 4 |
| 208917_x_at | NAD kinase | <i>NADK</i> | 65220 |

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|--------------|---|-------------------------|----------------|
| 208918_s_at | NAD kinase | <i>NADK</i> | 65220 |
| 213607_x_at | NAD kinase | <i>NADK</i> | 65220 |
| 215159_s_at | NAD kinase | <i>NADK</i> | 65220 |
| 202943_s_at | N-acetylgalactosaminidase, alpha- | <i>NAGA</i> | 4668 |
| 218231_at | N-acetylglucosamine kinase | <i>NAGK</i> | 55577 |
| 204360_s_at | N-acetylglucosaminidase, alpha- (Sanfilippo disease IIIB) | <i>NAGLU</i> | 4669 |
| 204861_s_at | NLR family, apoptosis inhibitory protein /// neuronal apoptosis inhibitory protei | <i>NAIP /// NAIP1B</i> | 4671 /// 652 |
| 204860_s_at | NLR family, apoptosis inhibitory protein /// neuronal apoptosis inhibitory protei | <i>NAIP /// NAIP1B</i> | 4671 /// 652 |
| 220184_at | Nanog homeobox | <i>NANOG</i> | 79923 |
| 228073_at | N-acetylneuraminic acid phosphatase | <i>NANP</i> | 140838 |
| 204528_s_at | nucleosome assembly protein 1-like 1 | <i>NAP1L1</i> | 4673 |
| 213864_s_at | nucleosome assembly protein 1-like 1 | <i>NAP1L1</i> | 4673 |
| 208752_x_at | nucleosome assembly protein 1-like 1 | <i>NAP1L1</i> | 4673 |
| 212967_x_at | nucleosome assembly protein 1-like 1 | <i>NAP1L1</i> | 4673 |
| 228063_s_at | nucleosome assembly protein 1-like 5 | <i>NAP1L5</i> | 266812 |
| 228062_at | nucleosome assembly protein 1-like 5 | <i>NAP1L5</i> | 266812 |
| 206491_s_at | N-ethylmaleimide-sensitive factor attachment protein, alpha | <i>NAPA</i> | 8775 |
| 208751_at | N-ethylmaleimide-sensitive factor attachment protein, alpha | <i>NAPA</i> | 8775 |
| 238722_x_at | N-acyl-phosphatidylethanolamine-hydrolyzing phospholipase D | <i>NAPE-PLD</i> | 222236 |
| 219862_s_at | nuclear prelamin A recognition factor | <i>NARF</i> | 26502 |
| 219158_s_at | NMDA receptor regulated 1 | <i>NARG1</i> | 80155 |
| 1555450_a_at | NMDA receptor regulated 1-like | <i>NARG1L</i> | 79612 |
| 235189_at | NMDA receptor regulated 2 | <i>NARG2</i> | 79664 |
| 228960_at | NMDA receptor regulated 2 | <i>NARG2</i> | 79664 |
| 218713_at | NMDA receptor regulated 2 | <i>NARG2</i> | 79664 |
| 200027_at | asparaginyl-tRNA synthetase | <i>NARS</i> | 4677 |
| 219217_at | asparaginyl-tRNA synthetase 2, mitochondrial (putative) | <i>NARS2</i> | 79731 |
| 201969_at | nuclear autoantigenic sperm protein (histone-binding) | <i>NASP</i> | 4678 |
| 222369_at | N-acetyltransferase 11 | <i>NAT11</i> | 79829 |
| 218734_at | N-acetyltransferase 11 | <i>NAT11</i> | 79829 |
| 225679_at | N-acetyltransferase 12 | <i>NAT12</i> | 122830 |
| 222393_s_at | N-acetyltransferase 13 | <i>NAT13</i> | 80218 |
| 217745_s_at | N-acetyltransferase 13 | <i>NAT13</i> | 80218 |
| 223040_at | N-acetyltransferase 5 | <i>NAT5</i> | 51126 |
| 216466_at | neuron navigator 3 | <i>NAV3</i> | 89795 |
| 1552658_a_at | neuron navigator 3 | <i>NAV3</i> | 89795 |
| 226439_s_at | neurobeachin | <i>NBEA</i> | 26960 |
| 221207_s_at | neurobeachin | <i>NBEA</i> | 26960 |
| 202905_x_at | nibrin | <i>NBN</i> | 4683 |
| 217299_s_at | nibrin | <i>NBN</i> | 4683 |
| 202906_s_at | nibrin | <i>NBN</i> | 4683 |
| 202907_s_at | nibrin | <i>NBN</i> | 4683 |
| 242191_at | neuroblastoma breakpoint family, member 11 /// neuroblastoma breakpoint fa | <i>NBPF10 /// NBPF1</i> | 100132406 , |
| 229447_x_at | neuroblastoma breakpoint family, member 11 | <i>NBPF11</i> | 100132406 , |
| 1558862_at | neuroblastoma breakpoint family, member 5 | <i>NBPF5</i> | 284610 /// 652 |
| 211685_s_at | neurocalcin delta | <i>NCALD</i> | 83988 |
| 212843_at | neural cell adhesion molecule 1 | <i>NCAM1</i> | 4684 |
| 205669_at | neural cell adhesion molecule 2 | <i>NCAM2</i> | 4685 |
| 218663_at | non-SMC condensin I complex, subunit G | <i>NCAPG</i> | 64151 |
| 201517_at | nuclear cap binding protein subunit 2, 20kDa | <i>NCBP2</i> | 22916 |
| 209949_at | neutrophil cytosolic factor 2 (65kDa, chronic granulomatous disease, autosomal | <i>NCF2</i> | 4688 |
| 207677_s_at | neutrophil cytosolic factor 4, 40kDa | <i>NCF4</i> | 4689 |
| 229895_s_at | NCK adaptor protein 1 | <i>NCK1</i> | 4690 |
| 217465_at | NCK-associated protein 1 | <i>NCKAP1</i> | 10787 |
| 209734_at | NCK-associated protein 1-like | <i>NCKAP1L</i> | 3071 |
| 218697_at | NCK interacting protein with SH3 domain | <i>NCKIPSD</i> | 51517 |
| 200610_s_at | nucleolin | <i>NCL</i> | 4691 |
| 209105_at | nuclear receptor coactivator 1 | <i>NCOA1</i> | 8648 |
| 1562439_at | Nuclear receptor coactivator 3 | <i>NCOA3</i> | 8202 |
| 209061_at | nuclear receptor coactivator 3 | <i>NCOA3</i> | 8202 |
| 207700_s_at | nuclear receptor coactivator 3 | <i>NCOA3</i> | 8202 |
| 210774_s_at | nuclear receptor coactivator 4 | <i>NCOA4</i> | 8031 |
| 225145_at | nuclear receptor coactivator 5 | <i>NCOA5</i> | 57727 |

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|--------------|--|----------------|--------|
| 207760_s_at | nuclear receptor co-repressor 2 | <i>NCOR2</i> | 9612 |
| 217045_x_at | natural cytotoxicity triggering receptor 2 | <i>NCR2</i> | 9436 |
| 208759_at | nicastatin | <i>NCSTN</i> | 23385 |
| 208093_s_at | nudE nuclear distribution gene E homolog (A. nidulans)-like 1 | <i>NDEL1</i> | 81565 |
| 222422_s_at | Nedd4 family interacting protein 1 | <i>NDFIP1</i> | 80762 |
| 217800_s_at | Nedd4 family interacting protein 1 | <i>NDFIP1</i> | 80762 |
| 224801_at | Nedd4 family interacting protein 2 | <i>NDFIP2</i> | 54602 |
| 224802_at | Nedd4 family interacting protein 2 | <i>NDFIP2</i> | 54602 |
| 224799_at | Nedd4 family interacting protein 2 | <i>NDFIP2</i> | 54602 |
| 206022_at | Norrie disease (pseudoglioma) | <i>NDP</i> | 4693 |
| 200632_s_at | N-myc downstream regulated gene 1 | <i>NDRG1</i> | 10397 |
| 202607_at | N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1 | <i>NDST1</i> | 3340 |
| 203916_at | N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 | <i>NDST2</i> | 8509 |
| 1570222_at | N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 4 | <i>NDST4</i> | 64579 |
| 202298_at | NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1, 7.5kDa | <i>NDUFA1</i> | 4694 |
| 228690_s_at | NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 11, 14.7kDa | <i>NDUFA11</i> | 126328 |
| 217773_s_at | NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9kDa | <i>NDUFA4</i> | 4697 |
| 202077_at | NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa | <i>NDUFAB1</i> | 4706 |
| 243630_at | NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 1, 7kDa | <i>NDUFB1</i> | 4707 |
| 223112_s_at | NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10, 22kDa | <i>NDUFB10</i> | 4716 |
| 218200_s_at | NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 2, 8kDa | <i>NDUFB2</i> | 4708 |
| 1559042_at | NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa | <i>NDUFB6</i> | 4712 |
| 203478_at | NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1, 6kDa | <i>NDUFC1</i> | 4717 |
| 218101_s_at | NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2, 14.5kDa | <i>NDUFC2</i> | 4718 |
| 209303_at | NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q r | <i>NDUFS4</i> | 4724 |
| 1555057_at | NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q r | <i>NDUFS4</i> | 4724 |
| 203606_at | NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa (NADH-coenzyme Q r | <i>NDUFS6</i> | 4726 |
| 232169_x_at | NADH dehydrogenase (ubiquinone) Fe-S protein 8, 23kDa (NADH-coenzyme Q r | <i>NDUFS8</i> | 4728 |
| 202941_at | NADH dehydrogenase (ubiquinone) flavoprotein 2, 24kDa | <i>NDUFV2</i> | 4729 |
| 203961_at | nebullette | <i>NEBL</i> | 10529 |
| 209300_s_at | NECAP endocytosis associated 1 | <i>NECAP1</i> | 25977 |
| 230123_at | NECAP endocytosis associated 2 | <i>NECAP2</i> | 55707 |
| 220731_s_at | NECAP endocytosis associated 2 | <i>NECAP2</i> | 55707 |
| 1560116_a_at | neural precursor cell expressed, developmentally down-regulated 1 | <i>NEDD1</i> | 121441 |
| 202149_at | neural precursor cell expressed, developmentally down-regulated 9 | <i>NEDD9</i> | 4739 |
| 202150_s_at | neural precursor cell expressed, developmentally down-regulated 9 | <i>NEDD9</i> | 4739 |
| 221916_at | neurofilament, light polypeptide 68kDa | <i>NEFL</i> | 4747 |
| 219502_at | nei endonuclease VIII-like 3 (E. coli) | <i>NEIL3</i> | 55247 |
| 216213_at | NIMA (never in mitosis gene a)-related kinase 1 | <i>NEK1</i> | 4750 |
| 213331_s_at | NIMA (never in mitosis gene a)-related kinase 1 | <i>NEK1</i> | 4750 |
| 204641_at | NIMA (never in mitosis gene a)-related kinase 2 | <i>NEK2</i> | 4751 |
| 211080_s_at | NIMA (never in mitosis gene a)-related kinase 2 | <i>NEK2</i> | 4751 |
| 211089_s_at | NIMA (never in mitosis gene a)-related kinase 3 | <i>NEK3</i> | 4752 |
| 212530_at | NIMA (never in mitosis gene a)-related kinase 7 | <i>NEK7</i> | 140609 |
| 203413_at | NEL-like 2 (chicken) | <i>NELL2</i> | 4753 |
| 1552736_a_at | neuropilin (NRP) and tolloid (TLL)-like 1 | <i>NETO1</i> | 81832 |
| 208926_at | sialidase 1 (lysosomal sialidase) | <i>NEU1</i> | 4758 |
| 204889_s_at | neuritized homolog (Drosophila) | <i>NEURL</i> | 9148 |
| 1552309_a_at | nexilin (F actin binding protein) | <i>NEXN</i> | 91624 |
| 226103_at | nexilin (F actin binding protein) | <i>NEXN</i> | 91624 |
| 211914_x_at | neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disea | <i>NF1</i> | 4763 |
| 211094_s_at | neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disea | <i>NF1</i> | 4763 |
| 224984_at | nuclear factor of activated T-cells 5, tonicity-responsive | <i>NFAT5</i> | 10725 |
| 215092_s_at | nuclear factor of activated T-cells 5, tonicity-responsive | <i>NFAT5</i> | 10725 |
| 211105_s_at | nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1 | <i>NFATC1</i> | 4772 |
| 210162_s_at | nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1 | <i>NFATC1</i> | 4772 |
| 226991_at | Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 | <i>NFATC2</i> | 4773 |
| 210555_s_at | nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3 | <i>NFATC3</i> | 4775 |
| 210556_at | nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3 | <i>NFATC3</i> | 4775 |
| 207416_s_at | nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3 | <i>NFATC3</i> | 4775 |
| 209930_s_at | nuclear factor (erythroid-derived 2), 45kDa | <i>NFE2</i> | 4778 |
| 200758_s_at | nuclear factor (erythroid-derived 2)-like 1 | <i>NFE2L1</i> | 4779 |
| 201146_at | nuclear factor (erythroid-derived 2)-like 2 | <i>NFE2L2</i> | 4780 |

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| 1567013_at | nuclear factor (erythroid-derived 2)-like 2 | <i>NFE2L2</i> | 4780 |
| 1560527_at | transcription factor NF-E4 | <i>NF-E4</i> | 58160 |
| 224975_at | nuclear factor I/A | <i>NFIA</i> | 4774 |
| 224970_at | nuclear factor I/A | <i>NFIA</i> | 4774 |
| 209290_s_at | nuclear factor I/B | <i>NFIB</i> | 4781 |
| 209289_at | nuclear factor I/B | <i>NFIB</i> | 4781 |
| 203574_at | nuclear factor, interleukin 3 regulated | <i>NFIL3</i> | 4783 |
| 209239_at | nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (p105) | <i>NFKB1</i> | 4790 |
| 207535_s_at | nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100) | <i>NFKB2</i> | 4791 |
| 209636_at | nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100) | <i>NFKB2</i> | 4791 |
| 201502_s_at | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha | <i>NFKBIA</i> | 4792 |
| 214062_x_at | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta | <i>NFKBIB</i> | 4793 |
| 203927_at | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon | <i>NFKBIE</i> | 4794 |
| 223217_s_at | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta | <i>NFKBIZ</i> | 64332 |
| 223218_s_at | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta | <i>NFKBIZ</i> | 64332 |
| 1556153_s_at | Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta | <i>NFKBIZ</i> | 64332 |
| 213028_at | nuclear factor related to kappaB binding protein | <i>NFRKB</i> | 4798 |
| 237210_at | nuclear factor related to kappaB binding protein | <i>NFRKB</i> | 4798 |
| 218455_at | NFS1 nitrogen fixation 1 homolog (S. cerevisiae) | <i>NFS1</i> | 9054 |
| 218946_at | NFU1 iron-sulfur cluster scaffold homolog (S. cerevisiae) | <i>NFU1</i> | 27247 |
| 1553103_at | nuclear transcription factor, X-box binding 1 | <i>NFX1</i> | 4799 |
| 202584_at | nuclear transcription factor, X-box binding 1 | <i>NFX1</i> | 4799 |
| 227220_at | nuclear transcription factor, X-box binding-like 1 | <i>NFXL1</i> | 152518 |
| 204109_s_at | nuclear transcription factor Y, alpha | <i>NFYA</i> | 4800 |
| 204107_at | nuclear transcription factor Y, alpha | <i>NFYA</i> | 4800 |
| 215720_s_at | nuclear transcription factor Y, alpha | <i>NFYA</i> | 4800 |
| 218127_at | nuclear transcription factor Y, beta | <i>NFYB</i> | 4801 |
| 238231_at | Nuclear transcription factor Y, gamma | <i>NFYC</i> | 4802 |
| 211251_x_at | nuclear transcription factor Y, gamma | <i>NFYC</i> | 4802 |
| 202215_s_at | nuclear transcription factor Y, gamma | <i>NFYC</i> | 4802 |
| 211797_s_at | nuclear transcription factor Y, gamma | <i>NFYC</i> | 4802 |
| 207492_at | N-glycanase 1 | <i>NGLY1</i> | 55768 |
| 220742_s_at | N-glycanase 1 | <i>NGLY1</i> | 55768 |
| 1553633_s_at | Na ⁺ /H ⁺ exchanger domain containing 1 | <i>NHEDC1</i> | 150159 |
| 1555141_a_at | Na ⁺ /H ⁺ exchanger domain containing 1 | <i>NHEDC1</i> | 150159 |
| 229491_at | Na ⁺ /H ⁺ exchanger domain containing 2 | <i>NHEDC2</i> | 133308 |
| 215228_at | nescient helix loop helix 2 | <i>NHLH2</i> | 4808 |
| 219353_at | NHL repeat containing 2 | <i>NHLRC2</i> | 374354 |
| 228933_at | Nance-Horan syndrome (congenital cataracts and dental anomalies) | <i>NHS</i> | 4810 |
| 242800_at | Nance-Horan syndrome (congenital cataracts and dental anomalies) | <i>NHS</i> | 4810 |
| 203045_at | ninjurin 1 | <i>NINJ1</i> | 4814 |
| 219594_at | ninjurin 2 | <i>NINJ2</i> | 4815 |
| 222460_s_at | NEFA-interacting nuclear protein NIP30 | <i>NIP30</i> | 80011 |
| 219031_s_at | nuclear import 7 homolog (S. cerevisiae) | <i>NIP7</i> | 51388 |
| 207108_s_at | Nipped-B homolog (Drosophila) | <i>NIPBL</i> | 25836 |
| 224436_s_at | nipsnap homolog 3A (C. elegans) | <i>NIPSNAP3A</i> | 25934 |
| 221104_s_at | nipsnap homolog 3B (C. elegans) | <i>NIPSNAP3B</i> | 55335 |
| 201591_s_at | nischarin | <i>NISCH</i> | 11188 |
| 213915_at | natural killer cell group 7 sequence | <i>NKG7</i> | 4818 |
| 225930_at | NFKB inhibitor interacting Ras-like 1 | <i>NKIRAS1</i> | 28512 |
| 218240_at | NFKB inhibitor interacting Ras-like 2 | <i>NKIRAS2</i> | 28511 |
| 1570342_at | natural killer-tumor recognition sequence | <i>NKTR</i> | 4820 |
| 215339_at | natural killer-tumor recognition sequence | <i>NKTR</i> | 4820 |
| 209706_at | NK3 homeobox 1 | <i>NKX3-1</i> | 4824 |
| 205893_at | neuroligin 1 | <i>NLGN1</i> | 22871 |
| 218318_s_at | nemo-like kinase | <i>NLK</i> | 51701 |
| 222589_at | nemo-like kinase | <i>NLK</i> | 51701 |
| 238624_at | Nemo-like kinase | <i>NLK</i> | --- |
| 234762_x_at | Neurolysin (metallopeptidase M3 family) | <i>NLN</i> | 57486 |
| 225943_at | neurolysin (metallopeptidase M3 family) | <i>NLN</i> | 57486 |
| 236295_s_at | NLR family, CARD domain containing 3 | <i>NLRC3</i> | 197358 |
| 226474_at | NLR family, CARD domain containing 5 | <i>NLRC5</i> | 84166 |
| 211824_x_at | NLR family, pyrin domain containing 1 | <i>NLRP1</i> | 22861 |

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| 211822_s_at | NLR family, pyrin domain containing 1 | <i>NLRP1</i> | 22861 |
| 210113_s_at | NLR family, pyrin domain containing 1 | <i>NLRP1</i> | 22861 |
| 223944_at | NLR family, pyrin domain containing 12 | <i>NLRP12</i> | 91662 |
| 1554952_s_at | NLR family, pyrin domain containing 12 | <i>NLRP12</i> | 91662 |
| 207075_at | NLR family, pyrin domain containing 3 | <i>NLRP3</i> | 114548 |
| 216015_s_at | NLR family, pyrin domain containing 3 | <i>NLRP3</i> | 114548 |
| 1553695_a_at | NLR family member X1 | <i>NLRX1</i> | 79671 |
| 201268_at | non-metastatic cells 2, protein (NM23B) expressed in /// NM23-LV | <i>NME1-NME2</i> /// N | 4831 /// 654 |
| 206197_at | non-metastatic cells 5, protein expressed in (nucleoside-diphosphate kinase) | <i>NME5</i> | 8382 |
| 205851_at | non-metastatic cells 6, protein expressed in (nucleoside-diphosphate kinase) | <i>NME6</i> | 10201 |
| 201158_at | N-myristoyltransferase 1 | <i>NMT1</i> | 4836 |
| 205006_s_at | N-myristoyltransferase 2 | <i>NMT2</i> | 9397 |
| 215743_at | N-myristoyltransferase 2 | <i>NMT2</i> | 9397 |
| 205005_s_at | N-myristoyltransferase 2 | <i>NMT2</i> | 9397 |
| 215069_at | N-myristoyltransferase 2 | <i>NMT2</i> | 9397 |
| 202783_at | nicotinamide nucleotide transhydrogenase | <i>NNT</i> | 23530 |
| 202784_s_at | nicotinamide nucleotide transhydrogenase | <i>NNT</i> | 23530 |
| 218889_at | nucleolar complex associated 3 homolog (<i>S. cerevisiae</i>) | <i>NOC3L</i> | 64318 |
| 224190_x_at | nucleotide-binding oligomerization domain containing 1 | <i>NOD1</i> | 10392 |
| 220066_at | nucleotide-binding oligomerization domain containing 2 | <i>NOD2</i> | 64127 |
| 221970_s_at | nucleolar protein 11 | <i>NOL11</i> | 25926 |
| 238605_at | nucleolar protein 4 | <i>NOL4</i> | 8715 |
| 200875_s_at | nucleolar protein 5A (56kDa with KKE/D repeat) | <i>NOL5A</i> | 10528 |
| 213838_at | nucleolar protein 7, 27kDa | <i>NOL7</i> | 51406 |
| 218754_at | nucleolar protein 9 | <i>NOL9</i> | 79707 |
| 1554082_a_at | nucleolar protein 9 | <i>NOL9</i> | 79707 |
| 219110_at | nucleolar protein family A, member 1 (H/ACA small nucleolar RNPs) | <i>NOLA1</i> | 54433 |
| 217962_at | nucleolar protein family A, member 3 (H/ACA small nucleolar RNPs) | <i>NOLA3</i> | 55505 |
| 211951_at | nucleolar and coiled-body phosphoprotein 1 | <i>NOLC1</i> | 9221 |
| 210470_x_at | non-POU domain containing, octamer-binding | <i>NONO</i> | 4841 |
| 208698_s_at | non-POU domain containing, octamer-binding | <i>NONO</i> | 4841 |
| 1560974_s_at | nitric oxide synthase 1 (neuronal) | <i>NOS1</i> | 4842 |
| 1560703_at | Nitric oxide synthase 2A (inducible, hepatocytes) | <i>NOS2A</i> | 201229 |
| 218902_at | Notch homolog 1, translocation-associated (<i>Drosophila</i>) | <i>NOTCH1</i> | 4851 |
| 212377_s_at | Notch homolog 2 (<i>Drosophila</i>) | <i>NOTCH2</i> | 4853 |
| 210756_s_at | Notch homolog 2 (<i>Drosophila</i>) | <i>NOTCH2</i> | 4853 |
| 227067_x_at | Notch homolog 2 (<i>Drosophila</i>) N-terminal like | <i>NOTCH2NL</i> | 388677 |
| 205247_at | Notch homolog 4 (<i>Drosophila</i>) | <i>NOTCH4</i> | 4855 |
| 214321_at | nephroblastoma overexpressed gene | <i>NOV</i> | 4856 |
| 204501_at | nephroblastoma overexpressed gene | <i>NOV</i> | 4856 |
| 219773_at | NADPH oxidase 4 | <i>NOX4</i> | 50507 |
| 222652_s_at | cytokine-like nuclear factor n-pac | <i>N-PAC</i> | 84656 |
| 212414_s_at | septin 6 /// cytokine-like nuclear factor n-pac | <i>N-PAC</i> /// <i>SEPT6</i> | 23157 /// 84 |
| 232158_x_at | NIPA-like domain containing 1 | <i>NPAL1</i> | 152519 |
| 229735_s_at | NIPA-like domain containing 3 | <i>NPAL3</i> | --- |
| 211585_at | nuclear protein, ataxia-telangiectasia locus | <i>NPAT</i> | 4863 |
| 209798_at | nuclear protein, ataxia-telangiectasia locus | <i>NPAT</i> | 4863 |
| 211584_s_at | nuclear protein, ataxia-telangiectasia locus | <i>NPAT</i> | 4863 |
| 202679_at | Niemann-Pick disease, type C1 | <i>NPC1</i> | 4864 |
| 200701_at | Niemann-Pick disease, type C2 | <i>NPC2</i> | 10577 |
| 235033_at | Aminopeptidase-like 1 | <i>NPEPL1</i> | 79716 |
| 218821_at | aminopeptidase-like 1 | <i>NPEPL1</i> | 79716 |
| 242612_at | aminopeptidase puromycin sensitive | <i>NPEPPS</i> | --- |
| 201455_s_at | aminopeptidase puromycin sensitive | <i>NPEPPS</i> | 9520 |
| 201454_s_at | aminopeptidase puromycin sensitive | <i>NPEPPS</i> | 9520 |
| 213471_at | nephronophthisis 4 | <i>NPHP4</i> | 261734 |
| 223405_at | N-acetylneuraminatase pyruvate lyase (dihydrodipicolinate synthase) | <i>NPL</i> | 80896 |
| 240440_at | N-acetylneuraminatase pyruvate lyase (dihydrodipicolinate synthase) | <i>NPL</i> | 80896 |
| 221210_s_at | N-acetylneuraminatase pyruvate lyase (dihydrodipicolinate synthase) | <i>NPL</i> | 80896 |
| 221923_s_at | nucleophosmin (nucleolar phosphoprotein B23, numatrin) | <i>NPM1</i> | 4869 |
| 221691_x_at | nucleophosmin (nucleolar phosphoprotein B23, numatrin) | <i>NPM1</i> | 4869 |
| 202228_s_at | neuroplastin | <i>NPTN</i> | 27020 |
| 31637_s_at | thyroid hormone receptor, alpha (erythroblastic leukemia viral (v-erb-a) oncogene) | <i>NR1D1</i> /// <i>THRA</i> | 7067 /// 95; |

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|-------------|--|------------------------------|--------------|
| 204760_s_at | thyroid hormone receptor, alpha (erythroblastic leukemia viral (v-erb-a) oncogene) | <i>NR1D1</i> /// <i>THRA</i> | 7067 /// 95; |
| 225768_at | nuclear receptor subfamily 1, group D, member 2 | <i>NR1D2</i> | 9975 |
| 209750_at | nuclear receptor subfamily 1, group D, member 2 | <i>NR1D2</i> | 9975 |
| 218215_s_at | nuclear receptor subfamily 1, group H, member 2 | <i>NR1H2</i> | 7376 |
| 204791_at | nuclear receptor subfamily 2, group C, member 1 | <i>NR2C1</i> | 7181 |
| 210531_at | nuclear receptor subfamily 2, group C, member 1 | <i>NR2C1</i> | 7181 |
| 201866_s_at | nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor) | <i>NR3C1</i> | 2908 |
| 216321_s_at | nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor) | <i>NR3C1</i> | 2908 |
| 201865_x_at | nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor) | <i>NR3C1</i> | 2908 |
| 211671_s_at | nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor) | <i>NR3C1</i> | 2908 |
| 202340_x_at | nuclear receptor subfamily 4, group A, member 1 | <i>NR4A1</i> | 3164 |
| 207978_s_at | nuclear receptor subfamily 4, group A, member 3 | <i>NR4A3</i> | 8013 |
| 209959_at | nuclear receptor subfamily 4, group A, member 3 | <i>NR4A3</i> | 8013 |
| 216979_at | nuclear receptor subfamily 4, group A, member 3 | <i>NR4A3</i> | 8013 |
| 1560469_at | nuclear receptor subfamily 5, group A, member 2 | <i>NR5A2</i> | 2494 |
| 211402_x_at | nuclear receptor subfamily 6, group A, member 1 | <i>NR6A1</i> | 2649 |
| 221803_s_at | nuclear receptor binding factor 2 | <i>NRBF2</i> | 29982 |
| 223650_s_at | nuclear receptor binding factor 2 | <i>NRBF2</i> | 29982 |
| 217765_at | nuclear receptor binding protein 1 | <i>NRBP1</i> | 29959 |
| 202600_s_at | nuclear receptor interacting protein 1 | <i>NRIP1</i> | 8204 |
| 202599_s_at | nuclear receptor interacting protein 1 | <i>NRIP1</i> | 8204 |
| 209914_s_at | neurexin 1 | <i>NRXN1</i> | 9378 |
| 221238_at | nucleosomal binding protein 1 | <i>NSBP1</i> | 79366 |
| 221606_s_at | nucleosomal binding protein 1 | <i>NSBP1</i> | 79366 |
| 217831_s_at | NSFL1 (p97) cofactor (p47) | <i>NSFL1C</i> | 55968 |
| 209484_s_at | NSL1, MIND kinetochore complex component, homolog (<i>S. cerevisiae</i>) | <i>NSL1</i> | 25936 |
| 232148_at | Neutral sphingomyelinase (N-SMase) activation associated factor | <i>NSMAF</i> | 8439 |
| 203269_at | neutral sphingomyelinase (N-SMase) activation associated factor | <i>NSMAF</i> | 8439 |
| 232149_s_at | neutral sphingomyelinase (N-SMase) activation associated factor | <i>NSMAF</i> | 8439 |
| 226536_at | non-SMC element 2, MMS21 homolog (<i>S. cerevisiae</i>) | <i>NSMCE2</i> | 286053 |
| 226351_at | NOL1/NOP2/Sun domain family, member 4 | <i>NSUN4</i> | 387338 |
| 243100_at | 5'-nucleotidase, cytosolic IB | <i>NT5C1B</i> | 93034 |
| 223178_s_at | 5'-nucleotidase domain containing 1 | <i>NT5DC1</i> | 221294 |
| 203939_at | 5'-nucleotidase, ecto (CD73) | <i>NT5E</i> | 4907 |
| 217480_x_at | Netrin 2-like (chicken) | <i>NTN2L</i> | 339562 |
| 233072_at | netrin G2 | <i>NTNG2</i> | 84628 |
| 207152_at | neurotrophic tyrosine kinase, receptor, type 2 | <i>NTRK2</i> | 4915 |
| 217033_x_at | neurotrophic tyrosine kinase, receptor, type 3 | <i>NTRK3</i> | 4916 |
| 206462_s_at | neurotrophic tyrosine kinase, receptor, type 3 | <i>NTRK3</i> | 4916 |
| 217377_x_at | neurotrophic tyrosine kinase, receptor, type 3 | <i>NTRK3</i> | 4916 |
| 203978_at | nucleotide binding protein 1 (MinD homolog, <i>E. coli</i>) | <i>NUBP1</i> | 4682 |
| 200646_s_at | nucleobindin 1 | <i>NUCB1</i> | 4924 |
| 226880_at | nuclear casein kinase and cyclin-dependent kinase substrate 1 | <i>NUCKS1</i> | 64710 |
| 217802_s_at | nuclear casein kinase and cyclin-dependent kinase substrate 1 | <i>NUCKS1</i> | 64710 |
| 229353_s_at | nuclear casein kinase and cyclin-dependent kinase substrate 1 | <i>NUCKS1</i> | 64710 |
| 224581_s_at | nuclear casein kinase and cyclin-dependent kinase substrate 1 | <i>NUCKS1</i> | 64710 |
| 226642_s_at | NudC domain containing 2 | <i>NUDCD2</i> | 134492 |
| 201270_x_at | NudC domain containing 3 | <i>NUDCD3</i> | 23386 |
| 241596_at | nudix (nucleoside diphosphate linked moiety X)-type motif 10 | <i>NUDT10</i> | 170685 |
| 241598_at | Nudix (nucleoside diphosphate linked moiety X)-type motif 10 | <i>NUDT10</i> | 170685 |
| 219855_at | nudix (nucleoside diphosphate linked moiety X)-type motif 11 | <i>NUDT11</i> | 55190 |
| 223535_at | nudix (nucleoside diphosphate linked moiety X)-type motif 12 | <i>NUDT12</i> | 83594 |
| 224477_s_at | nudix (nucleoside diphosphate linked moiety X)-type motif 16-like 1 | <i>NUDT16L1</i> | 84309 |
| 232251_at | nudix (nucleoside diphosphate linked moiety X)-type motif 16 pseudogene | <i>NUDT16P</i> | 152195 |
| 224830_at | nudix (nucleoside diphosphate linked moiety X)-type motif 21 | <i>NUDT21</i> | 11051 |
| 213461_at | nudix (nucleoside diphosphate linked moiety X)-type motif 21 | <i>NUDT21</i> | 11051 |
| 224464_s_at | nudix (nucleoside diphosphate linked moiety X)-type motif 22 | <i>NUDT22</i> | 84304 |
| 212183_at | nudix (nucleoside diphosphate linked moiety X)-type motif 4 | <i>NUDT4</i> | 11163 /// 4 |
| 222824_at | nudix (nucleoside diphosphate linked moiety X)-type motif 5 | <i>NUDT5</i> | --- |
| 223100_s_at | nudix (nucleoside diphosphate linked moiety X)-type motif 5 | <i>NUDT5</i> | 11164 |
| 205136_s_at | nuclear fragile X mental retardation protein interacting protein 1 | <i>NUFIP1</i> | 26747 |
| 235539_at | Nuclear mitotic apparatus protein 1 | <i>NUMA1</i> | 4926 |
| 214251_s_at | nuclear mitotic apparatus protein 1 | <i>NUMA1</i> | 4926 |

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| 209073_s_at | numb homolog (Drosophila) | <i>NUMB</i> | 8650 |
| 207545_s_at | numb homolog (Drosophila) | <i>NUMB</i> | 8650 |
| 242195_x_at | numb homolog (Drosophila)-like | <i>NUMBL</i> | 9253 |
| 218768_at | nucleoporin 107kDa | <i>NUP107</i> | 57122 |
| 212709_at | nucleoporin 160kDa | <i>NUP160</i> | 23279 |
| 212247_at | nucleoporin 205kDa | <i>NUP205</i> | 23165 |
| 212316_at | nucleoporin 210kDa | <i>NUP210</i> | 23225 |
| 202155_s_at | nucleoporin 214kDa | <i>NUP214</i> | 8021 |
| 228902_at | nucleoporin 214kDa | <i>NUP214</i> | 8021 |
| 225470_at | nucleoporin 35kDa | <i>NUP35</i> | 129401 |
| 218622_at | nucleoporin 37kDa | <i>NUP37</i> | 79023 |
| 219007_at | nucleoporin 43kDa | <i>NUP43</i> | 348995 |
| 218294_s_at | nucleoporin 50kDa | <i>NUP50</i> | 10762 |
| 202153_s_at | nucleoporin 62kDa | <i>NUP62</i> | 23636 |
| 220520_s_at | nucleoporin 62kDa C-terminal like | <i>NUP62CL</i> | 54830 |
| 232960_at | nucleoporin 62kDa C-terminal like | <i>NUP62CL</i> | 54830 |
| 202900_s_at | nucleoporin 88kDa | <i>NUP88</i> | 4927 |
| 202188_at | nucleoporin 93kDa | <i>NUP93</i> | 9688 |
| 203195_s_at | nucleoporin 98kDa | <i>NUP98</i> | 4928 |
| 203194_s_at | nucleoporin 98kDa | <i>NUP98</i> | 4928 |
| 210793_s_at | nucleoporin 98kDa | <i>NUP98</i> | 4928 |
| 1555789_s_at | nucleoporin 98kDa /// PHD finger protein 23 | <i>NUP98 /// PHF23</i> | 79142 |
| 204435_at | nucleoporin like 1 | <i>NUPL1</i> | 9818 |
| 225047_at | nucleoporin like 1 | <i>NUPL1</i> | 9818 |
| 223984_s_at | nucleoporin like 1 | <i>NUPL1</i> | 9818 |
| 241425_at | Nucleoporin like 1 | <i>NUPL1</i> | 9818 |
| 209230_s_at | nuclear protein 1 | <i>NUPR1</i> | 26471 |
| 218039_at | nucleolar and spindle associated protein 1 | <i>NUSAP1</i> | 51203 |
| 208922_s_at | nuclear RNA export factor 1 | <i>NXF1</i> | 10482 |
| 218708_at | NTF2-like export factor 1 | <i>NXT1</i> | 29107 |
| 1553570_x_at | phosphatidylinositol glycan anchor biosynthesis, class F /// zinc finger, FYVE don | <i>OAF /// PIGF /// ZF 4513 /// 64:</i> | |
| 1553569_at | phosphatidylinositol glycan anchor biosynthesis, class F /// zinc finger, FYVE don | <i>OAF /// PIGF /// ZF 4513 /// 64:</i> | |
| 202869_at | 2',5'-oligoadenylate synthetase 1, 40/46kDa | <i>OAS1</i> | 4938 |
| 205552_s_at | 2',5'-oligoadenylate synthetase 1, 40/46kDa | <i>OAS1</i> | 4938 |
| 204972_at | 2'-5'-oligoadenylate synthetase 2, 69/71kDa | <i>OAS2</i> | 4939 |
| 228607_at | 2'-5'-oligoadenylate synthetase 2, 69/71kDa | <i>OAS2</i> | 4939 |
| 218400_at | 2'-5'-oligoadenylate synthetase 3, 100kDa | <i>OAS3</i> | 4940 |
| 210797_s_at | 2'-5'-oligoadenylate synthetase-like | <i>OASL</i> | 8638 |
| 205660_at | 2'-5'-oligoadenylate synthetase-like | <i>OASL</i> | 8638 |
| 219100_at | oligonucleotide/oligosaccharide-binding fold containing 1 | <i>OBFC1</i> | 79991 |
| 219334_s_at | oligonucleotide/oligosaccharide-binding fold containing 2A | <i>OBFC2A</i> | 64859 |
| 239748_x_at | OCIA domain containing 1 | <i>OCIAD1</i> | 54940 |
| 208274_at | oculomedin | <i>OCLM</i> | 10896 |
| 1565026_a_at | orofacial cleft 1 candidate 1 | <i>OFCC1</i> | 266553 |
| 241751_at | oral-facial-digital syndrome 1 | <i>OFD1</i> | 8481 |
| 1554152_a_at | oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide) | <i>OGDH</i> | 4967 |
| 241739_at | 2-oxoglutarate and iron-dependent oxygenase domain containing 1 | <i>OGFOD1</i> | 55239 |
| 225110_at | 2-oxoglutarate and iron-dependent oxygenase domain containing 1 | <i>OGFOD1</i> | 55239 |
| 221090_s_at | 2-oxoglutarate and iron-dependent oxygenase domain containing 1 | <i>OGFOD1</i> | 55239 |
| 225106_s_at | 2-oxoglutarate and iron-dependent oxygenase domain containing 1 | <i>OGFOD1</i> | 55239 |
| 202841_x_at | opioid growth factor receptor | <i>OGFR</i> | 11054 |
| 219582_at | opioid growth factor receptor-like 1 | <i>OGFRL1</i> | 79627 |
| 205760_s_at | 8-oxoguanine DNA glycosylase | <i>OGG1</i> | 4968 |
| 212307_s_at | O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:~ | <i>OGT</i> | 8473 |
| 229787_s_at | O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:~ | <i>OGT</i> | --- |
| 209240_at | O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:~ | <i>OGT</i> | 8473 |
| 207564_x_at | O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:~ | <i>OGT</i> | 8473 |
| 219293_s_at | Obg-like ATPase 1 | <i>OLA1</i> | 29789 |
| 219975_x_at | oleoyl-ACP hydrolase | <i>OLAH</i> | 55301 |
| 232586_x_at | CDNA FLJ11504 fis, clone HEMBA1002119 | <i>olfactory receptor,</i> | 100133315 |
| 1554524_a_at | olfactomedin 3 | <i>OLFM3</i> | 118427 |
| 1554526_at | olfactomedin 3 | <i>OLFM3</i> | 118427 |
| 212768_s_at | olfactomedin 4 | <i>OLFM4</i> | 10562 |

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| 228170_at | oligodendrocyte transcription factor 1 | <i>OLIG1</i> | 116448 |
| 210004_at | oxidized low density lipoprotein (lectin-like) receptor 1 | <i>OLR1</i> | 4973 |
| 207093_s_at | oligodendrocyte myelin glycoprotein | <i>OMG</i> | 4974 |
| 241027_at | optic atrophy 1 (autosomal dominant) | <i>OPA1</i> | 4976 |
| 212213_x_at | optic atrophy 1 (autosomal dominant) | <i>OPA1</i> | 4976 |
| 214306_at | optic atrophy 1 (autosomal dominant) | <i>OPA1</i> | 4976 |
| 206323_x_at | oligophrenin 1 | <i>OPHN1</i> | 4983 |
| 222025_s_at | 5-oxoprolinase (ATP-hydrolysing) | <i>OPLAH</i> | 26873 |
| 219032_x_at | opsin 3 (encephalopsin, panopsin) | <i>OPN3</i> | 23596 |
| 233657_at | opsin 5 | <i>OPN5</i> | 221391 |
| 221344_at | olfactory receptor, family 12, subfamily D, member 2 | <i>OR12D2</i> | 26529 |
| 216408_at | olfactory receptor, family 2, subfamily B, member 2 | <i>OR2B2</i> | 81697 |
| 1556986_at | olfactory receptor, family 2, subfamily H, member 1 | <i>OR2H1</i> | 26716 |
| 221451_s_at | olfactory receptor, family 2, subfamily W, member 1 | <i>OR2W1</i> | 26692 |
| 234486_at | olfactory receptor, family 51, subfamily B, member 2 | <i>OR51B2</i> | 79345 |
| 232829_at | olfactory receptor, family 52, subfamily K, member 3 pseudogene | <i>OR52K3P</i> | 390035 |
| 208521_at | olfactory receptor, family 5, subfamily I, member 1 | <i>OR5I1</i> | 10798 |
| 1567288_at | olfactory receptor, family 5, subfamily K, member 1 | <i>OR5K1</i> | 26339 |
| 1566956_at | olfactory receptor, family 7, subfamily E, member 104 pseudogene | <i>OR7E104P</i> | 81137 |
| 215463_at | olfactory receptor, family 7, subfamily E, member 24 | <i>OR7E24</i> | 26648 |
| 217499_x_at | olfactory receptor, family 7, subfamily E, member 37 pseudogene | <i>OR7E37P</i> | 26636 |
| 221864_at | ORAI calcium release-activated calcium modulator 3 | <i>ORAI3</i> | 93129 |
| 204853_at | origin recognition complex, subunit 2-like (yeast) | <i>ORC2L</i> | 4999 |
| 204957_at | origin recognition complex, subunit 5-like (yeast) | <i>ORC5L</i> | 5001 |
| 219105_x_at | origin recognition complex, subunit 6 like (yeast) | <i>ORC6L</i> | 23594 |
| 205040_at | orosomuroid 1 | <i>ORM1</i> | 5004 |
| 214465_at | orosomuroid 1 /// orosomuroid 2 | <i>ORM1 /// ORM2</i> | 5004 /// 5004 |
| 205041_s_at | orosomuroid 1 /// orosomuroid 2 | <i>ORM1 /// ORM2</i> | 5004 /// 5004 |
| 223259_at | ORM1-like 3 (S. cerevisiae) | <i>ORMDL3</i> | 94103 |
| 223734_at | ovary-specific acidic protein | <i>OSAP</i> | 84709 |
| 201800_s_at | oxysterol binding protein | <i>OSBP</i> | 5007 |
| 201799_s_at | oxysterol binding protein | <i>OSBP</i> | 5007 |
| 216755_at | oxysterol binding protein-like 10 | <i>OSBPL10</i> | 114884 |
| 218304_s_at | oxysterol binding protein-like 11 | <i>OSBPL11</i> | 114885 |
| 208158_s_at | oxysterol binding protein-like 1A | <i>OSBPL1A</i> | 114876 |
| 209222_s_at | oxysterol binding protein-like 2 | <i>OSBPL2</i> | 9885 |
| 233734_s_at | oxysterol binding protein-like 5 | <i>OSBPL5</i> | 114879 |
| 230032_at | O-sialoglycoprotein endopeptidase-like 1 | <i>OSGEPL1</i> | 64172 |
| 1554414_a_at | oxidative stress induced growth inhibitor family member 2 | <i>OSGIN2</i> | 734 |
| 230170_at | oncostatin M | <i>OSM</i> | 5008 |
| 214637_at | oncostatin M | <i>OSM</i> | 5008 |
| 235197_s_at | osteopetrosis associated transmembrane protein 1 | <i>OSTM1</i> | 28962 |
| 235198_at | osteopetrosis associated transmembrane protein 1 | <i>OSTM1</i> | 28962 |
| 218196_at | osteopetrosis associated transmembrane protein 1 | <i>OSTM1</i> | 28962 |
| 223835_x_at | orthopedia homeobox | <i>OTP</i> | 23440 |
| 226140_s_at | OTU domain containing 1 | <i>OTUD1</i> | 220213 |
| 233933_s_at | OTU domain containing 5 | <i>OTUD5</i> | 55593 |
| 1555426_a_at | OTU domain containing 5 | <i>OTUD5</i> | 55593 |
| 222825_at | OTU domain containing 6B | <i>OTUD6B</i> | 51633 |
| 229396_at | ovo-like 1(Drosophila) | <i>OVOL1</i> | 5017 |
| 211778_s_at | ovo-like 2 (Drosophila) | <i>OVOL2</i> | 58495 |
| 219133_at | 3-oxoacyl-ACP synthase, mitochondrial | <i>OXSM</i> | 54995 |
| 202696_at | oxidative-stress responsive 1 | <i>OXSRI</i> | 9943 |
| 206825_at | oxytocin receptor | <i>OXTR</i> | 5021 |
| 228566_at | Hypothetical protein FLJ10656 | <i>P15RS</i> | 55197 |
| 217608_at | P18SRP protein | <i>P18SRP</i> | 285672 |
| 1553581_s_at | P18SRP protein | <i>P18SRP</i> | 285672 |
| 235390_at | P18SRP protein | <i>P18SRP</i> | 285672 |
| 204088_at | purinergic receptor P2X, ligand-gated ion channel, 4 | <i>P2RX4</i> | 5025 |
| 1553856_s_at | purinergic receptor P2Y, G-protein coupled, 10 | <i>P2RY10</i> | 27334 |
| 214615_at | purinergic receptor P2Y, G-protein coupled, 10 | <i>P2RY10</i> | 27334 |
| 220005_at | purinergic receptor P2Y, G-protein coupled, 13 | <i>P2RY13</i> | 53829 |
| 206637_at | purinergic receptor P2Y, G-protein coupled, 14 | <i>P2RY14</i> | 9934 |

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|--------------|--|---------------------------|--------------|
| 218589_at | purinergic receptor P2Y, G-protein coupled, 5 | <i>P2RY5</i> | 10161 |
| 207543_s_at | procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha | <i>P4HA1</i> | 5033 |
| 202733_at | procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha | <i>P4HA2</i> | 8974 |
| 1564494_s_at | procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta | <i>P4HB</i> | 5034 |
| 200656_s_at | procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta | <i>P4HB</i> | 5034 |
| 200654_at | procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta | <i>P4HB</i> | 5034 |
| 214794_at | proliferation-associated 2G4, 38kDa | <i>PA2G4</i> | 5036 |
| 215157_x_at | poly(A) binding protein, cytoplasmic 1 | <i>PABPC1</i> | 26986 |
| 208113_x_at | poly(A) binding protein, cytoplasmic 3 | <i>PABPC3</i> | 5042 |
| 213046_at | poly(A) binding protein, nuclear 1 | <i>PABPN1</i> | 8106 |
| 224658_x_at | phosphofurin acidic cluster sorting protein 1 | <i>PACS1</i> | 55690 |
| 1554691_a_at | protein kinase C and casein kinase substrate in neurons 2 | <i>PAC SIN2</i> | 11252 |
| 201651_s_at | protein kinase C and casein kinase substrate in neurons 2 | <i>PAC SIN2</i> | 11252 |
| 220001_at | peptidyl arginine deiminase, type IV | <i>PADI4</i> | 23569 |
| 211413_s_at | peptidyl arginine deiminase, type IV | <i>PADI4</i> | 23569 |
| 200815_s_at | platelet-activating factor acetylhydrolase, isoform Ib, alpha subunit 45kDa | <i>PAFAH1B1</i> | 5048 |
| 224777_s_at | platelet-activating factor acetylhydrolase, isoform Ib, beta subunit 30kDa | <i>PAFAH1B2</i> | 5049 |
| 205233_s_at | platelet-activating factor acetylhydrolase 2, 40kDa | <i>PAFAH2</i> | 5051 |
| 205232_s_at | platelet-activating factor acetylhydrolase 2, 40kDa | <i>PAFAH2</i> | 5051 |
| 225622_at | phosphoprotein associated with glycosphingolipid microdomains 1 | <i>PAG1</i> | 55824 |
| 227354_at | phosphoprotein associated with glycosphingolipid microdomains 1 | <i>PAG1</i> | 55824 |
| 225626_at | phosphoprotein associated with glycosphingolipid microdomains 1 | <i>PAG1</i> | 55824 |
| 201013_s_at | phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole suc | <i>PAICS</i> | 10606 |
| 208051_s_at | poly(A) binding protein interacting protein 1 | <i>PAIP1</i> | 10605 |
| 209064_x_at | poly(A) binding protein interacting protein 1 | <i>PAIP1</i> | 10605 |
| 213754_s_at | poly(A) binding protein interacting protein 1 | <i>PAIP1</i> | 10605 /// 64 |
| 222984_at | poly(A) binding protein interacting protein 2 | <i>PAIP2</i> | 51247 |
| 222983_s_at | poly(A) binding protein interacting protein 2 | <i>PAIP2</i> | 51247 |
| 208876_s_at | p21 (CDKN1A)-activated kinase 2 | <i>PAK2</i> | 5062 |
| 208878_s_at | p21 (CDKN1A)-activated kinase 2 | <i>PAK2</i> | 5062 |
| 1559052_s_at | p21 (CDKN1A)-activated kinase 2 | <i>PAK2</i> | 5062 |
| 33814_at | p21(CDKN1A)-activated kinase 4 | <i>PAK4</i> | 10298 |
| 200897_s_at | palladin, cytoskeletal associated protein | <i>PALLD</i> | 23022 |
| 202336_s_at | peptidylglycine alpha-amidating monooxygenase | <i>PAM</i> | 5066 |
| 228735_s_at | Pantothenate kinase 2 (Hallervorden-Spatz syndrome) | <i>PANK2</i> | 80025 |
| 218771_at | pantothenate kinase 4 | <i>PANK4</i> | 55229 |
| 239067_s_at | pannexin 2 | <i>PANX2</i> | 56666 |
| 222794_x_at | PAP associated domain containing 1 | <i>PAPD1</i> | 55149 |
| 229676_at | PAP associated domain containing 1 | <i>PAPD1</i> | 55149 |
| 233873_x_at | PAP associated domain containing 1 | <i>PAPD1</i> | 55149 |
| 218947_s_at | PAP associated domain containing 1 | <i>PAPD1</i> | 55149 |
| 1556277_a_at | PAP associated domain containing 4 | <i>PAPD4</i> | 167153 |
| 229043_at | PAP associated domain containing 5 | <i>PAPD5</i> | 64282 |
| 209388_at | poly(A) polymerase alpha | <i>PAPOLA</i> | 10914 |
| 222035_s_at | poly(A) polymerase alpha | <i>PAPOLA</i> | 10914 |
| 242158_at | poly(A) polymerase beta (testis specific) | <i>PAPOLB</i> | 56903 |
| 1556929_at | Poly(A) polymerase gamma | <i>PAPOLG</i> | 64895 |
| 224940_s_at | pregnancy-associated plasma protein A, pappalysin 1 | <i>PAPPA</i> | 5069 |
| 203059_s_at | 3'-phosphoadenosine 5'-phosphosulfate synthase 2 | <i>PAPSS2</i> | 9060 |
| 213372_at | progesterin and adipoQ receptor family member III | <i>PAQR3</i> | 152559 |
| 242123_at | progesterin and adipoQ receptor family member VII | <i>PAQR7</i> | 164091 |
| 227626_at | progesterin and adipoQ receptor family member VIII | <i>PAQR8</i> | 85315 |
| 218271_s_at | presenilin associated, rhomboid-like | <i>PARL</i> | 55486 |
| 218543_s_at | poly (ADP-ribose) polymerase family, member 12 | <i>PARP12</i> | 64761 |
| 224701_at | poly (ADP-ribose) polymerase family, member 14 | <i>PARP14</i> | 54625 |
| 232610_at | poly (ADP-ribose) polymerase family, member 14 | <i>PARP14</i> | 54625 |
| 234710_s_at | poly (ADP-ribose) polymerase family, member 6 | <i>PARP6</i> | 56965 |
| 219639_x_at | poly (ADP-ribose) polymerase family, member 6 | <i>PARP6</i> | 56965 |
| 232683_s_at | poly (ADP-ribose) polymerase family, member 6 | <i>PARP6</i> | 56965 |
| 227807_at | poly (ADP-ribose) polymerase family, member 9 | <i>PARP9</i> | 83666 |
| 223220_s_at | poly (ADP-ribose) polymerase family, member 9 | <i>PARP9</i> | 83666 |
| 214834_at | small nuclear ribonucleoprotein polypeptide N /// Prader-Willi/Angelman syndr | <i>PAR-SN /// PAR5 //</i> | 8123 |
| 216253_s_at | parvin, beta | <i>PARVB</i> | 29780 |

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|--------------|--|-------------------------------|--------|
| 223562_at | parvin, gamma | PARVG | 64098 |
| 213534_s_at | PAS domain containing serine/threonine kinase | PASK | 23178 |
| 235795_at | paired box 6 | PAX6 | 5080 |
| 121_at | paired box 8 | PAX8 | 7849 |
| 212825_at | PAX interacting (with transcription-activation domain) protein 1 | PAXIP1 | 22976 |
| 217739_s_at | pre-B-cell colony enhancing factor 1 | PBEF1 | 10135 |
| 217738_at | pre-B-cell colony enhancing factor 1 | PBEF1 | 10135 |
| 1555167_s_at | pre-B-cell colony enhancing factor 1 | PBEF1 | 10135 |
| 243296_at | Pre-B-cell colony enhancing factor 1 | PBEF1 | 10135 |
| 219543_at | phenazine biosynthesis-like protein domain containing | PBLD | 64081 |
| 214177_s_at | pre-B-cell leukemia homeobox interacting protein 1 | PBXIP1 | 57326 |
| 212259_s_at | pre-B-cell leukemia homeobox interacting protein 1 | PBXIP1 | 57326 |
| 207838_x_at | pre-B-cell leukemia homeobox interacting protein 1 | PBXIP1 | 57326 |
| 239585_at | P300/CBP-associated factor | PCAF | 8850 |
| 208620_at | poly(rC) binding protein 1 | PCBP1 | 5093 |
| 204031_s_at | poly(rC) binding protein 2 | PCBP2 | 5094 |
| 213263_s_at | poly(rC) binding protein 2 | PCBP2 | 5094 |
| 232376_at | Propionyl Coenzyme A carboxylase, alpha polypeptide | PCCA | 5095 |
| 210292_s_at | protocadherin 11 X-linked /// protocadherin 11 Y-linked | PCDH11X /// PCDH 27328 /// 8: | |
| 217049_x_at | protocadherin 11 Y-linked | PCDH11Y | 83259 |
| 205656_at | protocadherin 17 | PCDH17 | 27253 |
| 225975_at | protocadherin 18 | PCDH18 | 54510 |
| 1552735_at | protocadherin gamma subfamily A, 4 | PCDHGA4 | 56111 |
| 203378_at | PCF11, cleavage and polyadenylation factor subunit, homolog (<i>S. cerevisiae</i>) | PCF11 | 51585 |
| 230408_at | Polycomb group ring finger 3 | PCGF3 | --- |
| 227935_s_at | polycomb group ring finger 5 | PCGF5 | 84333 |
| 226326_at | polycomb group ring finger 5 | PCGF5 | 84333 |
| 224326_s_at | polycomb group ring finger 6 | PCGF6 | 84108 |
| 244706_at | protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1 | PCMTD1 | 115294 |
| 212406_s_at | protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2 | PCMTD2 | 55251 |
| 201202_at | proliferating cell nuclear antigen | PCNA | 5111 |
| 213173_at | pecanex homolog (<i>Drosophila</i>) | PCNX | 22990 |
| 213159_at | pecanex homolog (<i>Drosophila</i>) | PCNX | 22990 |
| 229287_at | pecanex homolog (<i>Drosophila</i>) | PCNX | 22990 |
| 39650_s_at | pecanex-like 2 (<i>Drosophila</i>) | PCNXL2 | 80003 |
| 205559_s_at | proprotein convertase subtilisin/kexin type 5 | PCSK5 | 5125 |
| 213652_at | proprotein convertase subtilisin/kexin type 5 | PCSK5 | 5125 |
| 207239_s_at | PCTAIRE protein kinase 1 | PCTK1 | 5127 |
| 208824_x_at | PCTAIRE protein kinase 1 | PCTK1 | 5127 |
| 228420_at | programmed cell death 2 | PDCCD2 | 5134 |
| 203415_at | programmed cell death 6 | PDCCD6 | 10016 |
| 222394_at | programmed cell death 6 interacting protein | PDCCD6IP | 10015 |
| 231809_x_at | programmed cell death 7 | PDCCD7 | 10081 |
| 204449_at | phosducin-like | PDCL | 5082 |
| 231213_at | phosphodiesterase 1A, calmodulin-dependent | PDE1A | 5136 |
| 208396_s_at | phosphodiesterase 1A, calmodulin-dependent | PDE1A | 5136 |
| 222317_at | Phosphodiesterase 3B, cGMP-inhibited | PDE3B | 5140 |
| 214582_at | phosphodiesterase 3B, cGMP-inhibited | PDE3B | 5140 |
| 208591_s_at | phosphodiesterase 3B, cGMP-inhibited | PDE3B | 5140 |
| 204735_at | phosphodiesterase 4A, cAMP-specific (phosphodiesterase E2 dunce homolog, <i>D</i>) | PDE4A | 5141 |
| 206792_x_at | phosphodiesterase 4C, cAMP-specific (phosphodiesterase E1 dunce homolog, <i>D</i>) | PDE4C | 5143 |
| 210836_x_at | phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3 dunce homolog, <i>D</i>) | PDE4D | 5144 |
| 210837_s_at | phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3 dunce homolog, <i>D</i>) | PDE4D | 5144 |
| 209700_x_at | phosphodiesterase 4D interacting protein (myomegalin) | PDE4DIP | 9659 |
| 211751_at | phosphodiesterase 4D interacting protein (myomegalin) | PDE4DIP | 9659 |
| 205872_x_at | phosphodiesterase 4D interacting protein (myomegalin) | PDE4DIP | 9659 |
| 1552343_s_at | phosphodiesterase 7A | PDE7A | 5150 |
| 224046_s_at | phosphodiesterase 7A | PDE7A | 5150 |
| 218718_at | platelet derived growth factor C | PDGFC | 56034 |
| 219304_s_at | platelet derived growth factor D | PDGFD | 80310 |
| 200979_at | pyruvate dehydrogenase (lipoamide) alpha 1 | PDHA1 | 5160 |
| 211023_at | pyruvate dehydrogenase (lipoamide) beta | PDHB | 5162 |
| 208911_s_at | pyruvate dehydrogenase (lipoamide) beta | PDHB | 5162 |

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|--------------|--|---------------|-------------|
| 203067_at | pyruvate dehydrogenase complex, component X | <i>PDHX</i> | 8050 |
| 229453_at | Protein disulfide isomerase family A, member 3 | <i>PDIA3</i> | 2923 |
| 208612_at | protein disulfide isomerase family A, member 3 | <i>PDIA3</i> | 2923 |
| 227033_at | protein disulfide isomerase family A, member 3 | <i>PDIA3</i> | 2923 |
| 227255_at | PDLIM1 interacting kinase 1 like | <i>PDIK1L</i> | 149420 |
| 226452_at | pyruvate dehydrogenase kinase, isozyme 1 | <i>PDK1</i> | 5163 |
| 206686_at | pyruvate dehydrogenase kinase, isozyme 1 | <i>PDK1</i> | 5163 |
| 221957_at | pyruvate dehydrogenase kinase, isozyme 3 | <i>PDK3</i> | 5165 |
| 206348_s_at | pyruvate dehydrogenase kinase, isozyme 3 | <i>PDK3</i> | 5165 |
| 225207_at | pyruvate dehydrogenase kinase, isozyme 4 | <i>PDK4</i> | 5166 |
| 208690_s_at | PDZ and LIM domain 1 (elfin) | <i>PDLIM1</i> | 9124 |
| 219165_at | PDZ and LIM domain 2 (mystique) | <i>PDLIM2</i> | 64236 |
| 241208_at | PDZ and LIM domain 5 | <i>PDLIM5</i> | 10611 |
| 211681_s_at | PDZ and LIM domain 5 | <i>PDLIM5</i> | 10611 |
| 203242_s_at | PDZ and LIM domain 5 | <i>PDLIM5</i> | 10611 |
| 216804_s_at | PDZ and LIM domain 5 | <i>PDLIM5</i> | 10611 |
| 1569150_x_at | PDZ and LIM domain 7 (enigma) | <i>PDLIM7</i> | 9260 |
| 214121_x_at | PDZ and LIM domain 7 (enigma) | <i>PDLIM7</i> | 9260 |
| 224986_s_at | 3-phosphoinositide dependent protein kinase-1 | <i>PDPK1</i> | 5170 |
| 224902_at | pyruvate dehydrogenase phosphatase regulatory subunit | <i>P DPR</i> | 55066 |
| 242302_at | Androgen-induced proliferation inhibitor | <i>PDS5B</i> | 23047 |
| 1570119_at | Androgen-induced proliferation inhibitor | <i>PDS5B</i> | 23047 |
| 220865_s_at | prenyl (decaprenyl) diphosphate synthase, subunit 1 | <i>PDSS1</i> | 23590 |
| 236298_at | Prenyl (decaprenyl) diphosphate synthase, subunit 1 | <i>PDSS1</i> | 23590 |
| 1555886_at | prenyl (decaprenyl) diphosphate synthase, subunit 2 | <i>PDSS2</i> | 57107 |
| 212053_at | pyridoxal-dependent decarboxylase domain containing 1 | <i>PDXDC1</i> | 23042 |
| 218018_at | pyridoxal (pyridoxine, vitamin B6) kinase | <i>PDXK</i> | 8566 |
| 202671_s_at | pyridoxal (pyridoxine, vitamin B6) kinase | <i>PDXK</i> | 8566 |
| 218019_s_at | pyridoxal (pyridoxine, vitamin B6) kinase | <i>PDXK</i> | 8566 |
| 222492_at | pyridoxal (pyridoxine, vitamin B6) kinase | <i>PDXK</i> | 8566 |
| 233026_s_at | PDZ domain containing 2 | <i>PDZD2</i> | 23037 |
| 205380_at | PDZ domain containing 1 | <i>PDZK1</i> | 5174 |
| 210825_s_at | phosphatidylethanolamine binding protein 1 | <i>PEBP1</i> | 5037 |
| 1559921_at | platelet/endothelial cell adhesion molecule (CD31 antigen) | <i>PECAM1</i> | 5175 |
| 223619_x_at | peroxisomal trans-2-enoyl-CoA reductase | <i>PECR</i> | 55825 |
| 217923_at | penta-EF-hand domain containing 1 | <i>PEF1</i> | 553115 |
| 209242_at | paternally expressed 3 | <i>PEG3</i> | 5178 |
| 232213_at | Pellino homolog 1 (Drosophila) | <i>PELI1</i> | 57162 |
| 219132_at | pellino homolog 2 (Drosophila) | <i>PELI2</i> | 57161 |
| 218472_s_at | pelota homolog (Drosophila) | <i>PELO</i> | 53918 |
| 36829_at | period homolog 1 (Drosophila) | <i>PER1</i> | 5187 |
| 202861_at | period homolog 1 (Drosophila) | <i>PER1</i> | 5187 |
| 205251_at | period homolog 2 (Drosophila) | <i>PER2</i> | 8864 |
| 1566844_at | period 4 pseudogene | <i>PER4</i> | 168741 |
| 1566843_at | period 4 pseudogene | <i>PER4</i> | 168741 |
| 204873_at | peroxisome biogenesis factor 1 | <i>PEX1</i> | 5189 |
| 205094_at | peroxisomal biogenesis factor 12 | <i>PEX12</i> | 5193 |
| 1558164_s_at | Peroxisome biogenesis factor 13 | <i>PEX13</i> | 5194 |
| 201707_at | peroxisomal biogenesis factor 19 | <i>PEX19</i> | 5824 |
| 219180_s_at | peroxisome biogenesis factor 26 | <i>PEX26</i> | 55670 |
| 203970_s_at | peroxisomal biogenesis factor 3 | <i>PEX3</i> | 8504 |
| 214753_at | Phosphonoformate immuno-associated protein 5 | <i>PFAAP5</i> | 10443 |
| 205361_s_at | prefoldin subunit 4 | <i>PFDN4</i> | 5203 |
| 226733_at | 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2 | <i>PFKFB2</i> | 5208 |
| 209992_at | 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2 | <i>PFKFB2</i> | 5208 |
| 202464_s_at | 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 | <i>PFKFB3</i> | 5209 |
| 228499_at | 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 | <i>PFKFB4</i> | 5210 |
| 201102_s_at | phosphofructokinase, liver | <i>PFKL</i> | 5211 |
| 211065_x_at | phosphofructokinase, liver | <i>PFKL</i> | 5211 |
| 210976_s_at | phosphofructokinase, muscle | <i>PFKM</i> | 5213 |
| 201037_at | phosphofructokinase, platelet | <i>PFKP</i> | 5214 |
| 204992_s_at | profilin 2 | <i>PFN2</i> | 5217 |
| 243761_at | PFTAIRE protein kinase 1 | <i>PFTK1</i> | 100129289 , |

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|--------------|---|----------------|--------|
| 220576_at | GPI deacylase | <i>PGAP1</i> | 80055 |
| 213469_at | GPI deacylase | <i>PGAP1</i> | 80055 |
| 244321_at | GPI deacylase | <i>PGAP1</i> | 80055 |
| 203501_at | plasma glutamate carboxypeptidase | <i>PGCP</i> | 10404 |
| 201118_at | phosphogluconate dehydrogenase | <i>PGD</i> | 5226 |
| 215179_x_at | Placental growth factor, vascular endothelial growth factor-related protein | <i>PGF</i> | 5228 |
| 235615_at | Protein geranylgeranyltransferase type I, beta subunit | <i>PGGT1B</i> | 5229 |
| 242844_at | Protein geranylgeranyltransferase type I, beta subunit | <i>PGGT1B</i> | 5229 |
| 200738_s_at | phosphoglycerate kinase 1 | <i>PGK1</i> | 5230 |
| 227068_at | phosphoglycerate kinase 1 | <i>PGK1</i> | 5230 |
| 217356_s_at | phosphoglycerate kinase 1 | <i>PGK1</i> | 5230 |
| 200737_at | phosphoglycerate kinase 1 | <i>PGK1</i> | 5230 |
| 1558365_at | phosphoglycerate kinase 1 | <i>PGK1</i> | --- |
| 217383_at | Phosphoglycerate kinase 1 | <i>PGK1</i> | 5230 |
| 218387_s_at | 6-phosphogluconolactonase | <i>PGLS</i> | 25796 |
| 218388_at | 6-phosphogluconolactonase | <i>PGLS</i> | 25796 |
| 1554316_at | 6-phosphogluconolactonase | <i>PGLS</i> | 25796 |
| 207384_at | peptidoglycan recognition protein 1 | <i>PGLYRP1</i> | 8993 |
| 242817_at | peptidoglycan recognition protein 2 | <i>PGLYRP2</i> | 114770 |
| 201968_s_at | phosphoglucomutase 1 | <i>PGM1</i> | 5236 |
| 225366_at | phosphoglucomutase 2 | <i>PGM2</i> | 55276 |
| 223738_s_at | phosphoglucomutase 2 | <i>PGM2</i> | 55276 |
| 225367_at | phosphoglucomutase 2 | <i>PGM2</i> | 55276 |
| 229553_at | phosphoglucomutase 2-like 1 | <i>PGM2L1</i> | 283209 |
| 210041_s_at | phosphoglucomutase 3 | <i>PGM3</i> | 5238 |
| 1560431_at | phosphoglucomutase 5 pseudogene 1 | <i>PGM5P1</i> | 653394 |
| 208305_at | progesterone receptor | <i>PGR</i> | 5241 |
| 201121_s_at | progesterone receptor membrane component 1 | <i>PGRMC1</i> | 10857 |
| 201701_s_at | progesterone receptor membrane component 2 | <i>PGRMC2</i> | 10424 |
| 226266_at | phosphatidylglycerophosphate synthase 1 | <i>PGS1</i> | 9489 |
| 219394_at | phosphatidylglycerophosphate synthase 1 | <i>PGS1</i> | 9489 |
| 222125_s_at | hypoxia-inducible factor prolyl 4-hydroxylase | <i>PH-4</i> | 54681 |
| 213638_at | phosphatase and actin regulator 1 | <i>PHACTR1</i> | 221692 |
| 232045_at | phosphatase and actin regulator 1 | <i>PHACTR1</i> | 221692 |
| 227947_at | phosphatase and actin regulator 2 | <i>PHACTR2</i> | 9749 |
| 204048_s_at | phosphatase and actin regulator 2 | <i>PHACTR2</i> | 9749 |
| 204049_s_at | phosphatase and actin regulator 2 | <i>PHACTR2</i> | 9749 |
| 226823_at | phosphatase and actin regulator 4 | <i>PHACTR4</i> | 65979 |
| 219235_s_at | phosphatase and actin regulator 4 | <i>PHACTR4</i> | 65979 |
| 200658_s_at | prohibitin | <i>PHB</i> | 5245 |
| 200919_at | polyhomeotic homolog 2 (Drosophila) | <i>PHC2</i> | 1912 |
| 238693_at | polyhomeotic homolog 3 (Drosophila) | <i>PHC3</i> | 80012 |
| 222687_s_at | phytoceramidase, alkaline | <i>PHCA</i> | 55331 |
| 222688_at | phytoceramidase, alkaline | <i>PHCA</i> | 55331 |
| 222689_at | phytoceramidase, alkaline | <i>PHCA</i> | 55331 |
| 202928_s_at | PHD finger protein 1 | <i>PHF1</i> | 5252 |
| 40446_at | PHD finger protein 1 | <i>PHF1</i> | 5252 |
| 234939_s_at | PHD finger protein 12 | <i>PHF12</i> | 57649 |
| 231815_at | PHD finger protein 12 | <i>PHF12</i> | 57649 |
| 225005_at | PHD finger protein 13 | <i>PHF13</i> | 148479 |
| 228095_at | PHD finger protein 14 | <i>PHF14</i> | 9678 |
| 204525_at | PHD finger protein 14 | <i>PHF14</i> | 9678 |
| 212660_at | PHD finger protein 15 | <i>PHF15</i> | 23338 |
| 204866_at | PHD finger protein 16 | <i>PHF16</i> | 9767 |
| 218517_at | PHD finger protein 17 | <i>PHF17</i> | 79960 |
| 225816_at | PHD finger protein 17 | <i>PHF17</i> | 79960 |
| 225820_at | PHD finger protein 17 | <i>PHF17</i> | 79960 |
| 227523_s_at | PHD finger protein 20-like 1 | <i>PHF20L1</i> | 51105 |
| 226942_at | PHD finger protein 20-like 1 | <i>PHF20L1</i> | 51105 |
| 222133_s_at | PHD finger protein 20-like 1 | <i>PHF20L1</i> | 51105 |
| 219606_at | PHD finger protein 20-like 1 | <i>PHF20L1</i> | 51105 |
| 1554472_a_at | PHD finger protein 20-like 1 | <i>PHF20L1</i> | 51105 |
| 231967_at | PHD finger protein 20-like 1 | <i>PHF20L1</i> | 51105 |

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| 1554153_a_at | PHD finger protein 21A | <i>PHF21A</i> | 51317 |
| 203278_s_at | PHD finger protein 21A | <i>PHF21A</i> | 51317 |
| 1558965_at | PHD finger protein 21A | <i>PHF21A</i> | 51317 |
| 223081_at | PHD finger protein 23 | <i>PHF23</i> | 79142 |
| 225309_at | PHD finger protein 5A | <i>PHF5A</i> | 84844 |
| 225501_at | PHD finger protein 6 | <i>PHF6</i> | 84295 |
| 209439_s_at | phosphorylase kinase, alpha 2 (liver) | <i>PHKA2</i> | 5256 |
| 209802_at | pleckstrin homology-like domain, family A, member 2 | <i>PHLDA2</i> | 7262 |
| 209803_s_at | pleckstrin homology-like domain, family A, member 2 | <i>PHLDA2</i> | 7262 |
| 225688_s_at | pleckstrin homology-like domain, family B, member 2 | <i>PHLDB2</i> | 257068 /// € |
| 236218_at | phosphatase, orphan 1 | <i>PHOSPHO1</i> | 162466 |
| 209780_at | putative homeodomain transcription factor 2 | <i>PHTF2</i> | 57157 |
| 226623_at | phytanoyl-CoA 2-hydroxylase interacting protein-like | <i>PHYHIPL</i> | 84457 |
| 229947_at | peptidase inhibitor 15 | <i>PI15</i> | 51050 |
| 41469_at | peptidase inhibitor 3, skin-derived (SKALP) | <i>PI3</i> | 5266 |
| 203691_at | peptidase inhibitor 3, skin-derived (SKALP) | <i>PI3</i> | 5266 |
| 1559479_at | Phosphatidylinositol 4-kinase type 2 beta | <i>PI4K2B</i> | 55300 |
| 217863_at | protein inhibitor of activated STAT, 1 | <i>PIAS1</i> | 8554 |
| 217864_s_at | protein inhibitor of activated STAT, 1 | <i>PIAS1</i> | 8554 |
| 203035_s_at | protein inhibitor of activated STAT, 3 | <i>PIAS3</i> | 10401 |
| 203134_at | phosphatidylinositol binding clathrin assembly protein | <i>PICALM</i> | 8301 |
| 212506_at | phosphatidylinositol binding clathrin assembly protein | <i>PICALM</i> | 8301 |
| 215236_s_at | phosphatidylinositol binding clathrin assembly protein | <i>PICALM</i> | 8301 |
| 212511_at | phosphatidylinositol binding clathrin assembly protein | <i>PICALM</i> | 8301 |
| 205281_s_at | phosphatidylinositol glycan anchor biosynthesis, class A (paroxysmal nocturnal h | <i>PIGA</i> | 5277 |
| 242760_x_at | phosphatidylinositol glycan anchor biosynthesis, class B | <i>PIGB</i> | 9488 |
| 205452_at | phosphatidylinositol glycan anchor biosynthesis, class B | <i>PIGB</i> | 9488 |
| 205077_s_at | phosphatidylinositol glycan anchor biosynthesis, class F | <i>PIGF</i> | 5281 |
| 205078_at | phosphatidylinositol glycan anchor biosynthesis, class F | <i>PIGF</i> | 5281 |
| 209707_at | phosphatidylinositol glycan anchor biosynthesis, class K | <i>PIGK</i> | 10026 |
| 1555394_at | phosphatidylinositol glycan anchor biosynthesis, class K | <i>PIGK</i> | 10026 |
| 227639_at | phosphatidylinositol glycan anchor biosynthesis, class K | <i>PIGK</i> | 10026 |
| 205873_at | phosphatidylinositol glycan anchor biosynthesis, class L | <i>PIGL</i> | 9487 |
| 235168_at | phosphatidylinositol glycan anchor biosynthesis, class M | <i>PIGM</i> | 93183 |
| 223470_at | phosphatidylinositol glycan anchor biosynthesis, class M | <i>PIGM</i> | 93183 |
| 219238_at | phosphatidylinositol glycan anchor biosynthesis, class V | <i>PIGV</i> | 55650 |
| 1563111_a_at | phosphatidylinositol glycan anchor biosynthesis, class X | <i>PIGX</i> | 54965 |
| 1552291_at | phosphatidylinositol glycan anchor biosynthesis, class X | <i>PIGX</i> | 54965 |
| 220041_at | phosphatidylinositol glycan anchor biosynthesis, class Z | <i>PIGZ</i> | 80235 |
| 1554508_at | phosphoinositide-3-kinase adaptor protein 1 | <i>PIK3AP1</i> | 118788 |
| 213070_at | phosphoinositide-3-kinase, class 2, alpha polypeptide | <i>PIK3C2A</i> | 5286 |
| 226094_at | phosphoinositide-3-kinase, class 2, alpha polypeptide | <i>PIK3C2A</i> | 5286 |
| 204484_at | phosphoinositide-3-kinase, class 2, beta polypeptide | <i>PIK3C2B</i> | 5287 |
| 1569272_at | phosphoinositide-3-kinase, class 3 | <i>PIK3C3</i> | 5289 |
| 241304_at | phosphoinositide-3-kinase, class 3 | <i>PIK3C3</i> | 5289 |
| 215394_at | phosphoinositide-3-kinase, class 3 | <i>PIK3C3</i> | 5289 |
| 235980_at | Phosphoinositide-3-kinase, catalytic, alpha polypeptide | <i>PIK3CA</i> | 5290 |
| 231854_at | Phosphoinositide-3-kinase, catalytic, alpha polypeptide | <i>PIK3CA</i> | 5290 |
| 217620_s_at | phosphoinositide-3-kinase, catalytic, beta polypeptide | <i>PIK3CB</i> | 5291 |
| 212688_at | phosphoinositide-3-kinase, catalytic, beta polypeptide | <i>PIK3CB</i> | 5291 |
| 211230_s_at | phosphoinositide-3-kinase, catalytic, delta polypeptide | <i>PIK3CD</i> | 5293 |
| 203879_at | phosphoinositide-3-kinase, catalytic, delta polypeptide | <i>PIK3CD</i> | 5293 |
| 221757_at | phosphoinositide-3-kinase interacting protein 1 | <i>PIK3IP1</i> | 113791 |
| 221756_at | phosphoinositide-3-kinase interacting protein 1 | <i>PIK3IP1</i> | 113791 |
| 220566_at | phosphoinositide-3-kinase, regulatory subunit 5, p101 | <i>PIK3R5</i> | 23533 |
| 227645_at | phosphoinositide-3-kinase, regulatory subunit 5, p101 | <i>PIK3R5</i> | 23533 |
| 219788_at | paired immunoglobulin-like type 2 receptor alpha | <i>PILRA</i> | 29992 |
| 222218_s_at | paired immunoglobulin-like type 2 receptor alpha | <i>PILRA</i> | 29992 |
| 204269_at | pim-2 oncogene | <i>PIM2</i> | 11040 |
| 224739_at | pim-3 oncogene | <i>PIM3</i> | 415116 |
| 202927_at | protein (peptidylprolyl cis/trans isomerase) NIMA-interacting 1 | <i>PIN1</i> | 5300 |
| 207582_at | protein (peptidylprolyl cis/trans isomerase) NIMA-interacting 1-like | <i>PIN1L</i> | 5301 |
| 214224_s_at | protein (peptidylprolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin) | <i>PIN4</i> | 5303 |

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|-------------|---|--------------------------|--------------|
| 214735_at | phosphoinositide-binding protein PIP3-E | <i>PIP3-E</i> | 26034 |
| 205632_s_at | phosphatidylinositol-4-phosphate 5-kinase, type I, beta | <i>PIP5K1B</i> | 8395 |
| 217477_at | phosphatidylinositol-4-phosphate 5-kinase, type I, beta | <i>PIP5K1B</i> | 8395 |
| 202392_s_at | phosphatidylserine decarboxylase | <i>PISD</i> | 23761 |
| 201190_s_at | phosphatidylinositol transfer protein, alpha | <i>PITPNA</i> | 5306 |
| 201192_s_at | phosphatidylinositol transfer protein, alpha | <i>PITPNA</i> | 5306 |
| 201191_at | phosphatidylinositol transfer protein, alpha | <i>PITPNA</i> | 5306 |
| 238649_at | phosphatidylinositol transfer protein, cytoplasmic 1 | <i>PITPNC1</i> | 26207 |
| 201133_s_at | praja 2, RING-H2 motif containing | <i>PJA2</i> | 9867 |
| 203688_at | polycystic kidney disease 2 (autosomal dominant) | <i>PKD2</i> | 5311 |
| 223551_at | protein kinase (cAMP-dependent, catalytic) inhibitor beta | <i>PKIB</i> | 5570 |
| 201251_at | pyruvate kinase, muscle | <i>PKM2</i> | 5315 |
| 210969_at | protein kinase N2 | <i>PKN2</i> | 5586 |
| 212628_at | protein kinase N2 | <i>PKN2</i> | 5586 |
| 212629_s_at | protein kinase N2 | <i>PKN2</i> | 5586 |
| 63305_at | PBX/knotted 1 homeobox 2 | <i>PKNOX2</i> | 63876 |
| 201928_at | plakophilin 4 | <i>PKP4</i> | 8502 |
| 201929_s_at | plakophilin 4 | <i>PKP4</i> | 8502 |
| 201927_s_at | plakophilin 4 | <i>PKP4</i> | 8502 |
| 219095_at | phospholipase A2, group IVB (cytosolic) | <i>PLA2G4B</i> | 100137047, |
| 237783_at | PLAC8-like 1 | <i>PLAC8L1</i> | 153770 |
| 205372_at | pleiomorphic adenoma gene 1 | <i>PLAG1</i> | 5324 |
| 202924_s_at | pleiomorphic adenoma gene-like 2 | <i>PLAGL2</i> | 5326 |
| 202925_s_at | pleiomorphic adenoma gene-like 2 | <i>PLAGL2</i> | 5326 |
| 211668_s_at | plasminogen activator, urokinase | <i>PLAU</i> | 5328 |
| 205479_s_at | plasminogen activator, urokinase | <i>PLAU</i> | 5328 |
| 214866_at | plasminogen activator, urokinase receptor | <i>PLAUR</i> | 5329 |
| 211924_s_at | plasminogen activator, urokinase receptor | <i>PLAUR</i> | 5329 |
| 210845_s_at | plasminogen activator, urokinase receptor | <i>PLAUR</i> | 5329 |
| 213222_at | phospholipase C, beta 1 (phosphoinositide-specific) | <i>PLCB1</i> | 23236 |
| 204046_at | phospholipase C, beta 2 | <i>PLCB2</i> | 5330 |
| 240728_at | Phospholipase C, beta 4 | <i>PLCB4</i> | 5332 |
| 213309_at | phospholipase C-like 2 | <i>PLCL2</i> | 23228 |
| 218951_s_at | phosphatidylinositol-specific phospholipase C, X domain containing 1 | <i>PLCXD1</i> | 55344 |
| 231425_at | phospholipase C, zeta 1 | <i>PLCZ1</i> | 89869 |
| 177_at | phospholipase D1, phosphatidylcholine-specific | <i>PLD1</i> | 5337 |
| 224892_at | pallidin homolog (mouse) | <i>PLDN</i> | 26258 |
| 224883_at | pallidin homolog (mouse) | <i>PLDN</i> | 26258 |
| 222826_at | pallidin homolog (mouse) | <i>PLDN</i> | 26258 |
| 216971_s_at | plectin 1, intermediate filament binding protein 500kDa | <i>PLEC1</i> | 5339 |
| 203471_s_at | pleckstrin | <i>PLEK</i> | 5341 |
| 203470_s_at | pleckstrin | <i>PLEK</i> | 5341 |
| 226247_at | pleckstrin homology domain containing, family A (phosphoinositide binding spe | <i>PLEKHA1</i> | 59338 |
| 238013_at | pleckstrin homology domain containing, family A (phosphoinositide binding spe | <i>PLEKHA2</i> | 59339 |
| 225136_at | Pleckstrin homology domain containing, family A (phosphoinositide binding spe | <i>PLEKHA2</i> | 59339 |
| 217677_at | pleckstrin homology domain containing, family A (phosphoinositide binding spe | <i>PLEKHA2</i> | 59339 |
| 223370_at | pleckstrin homology domain containing, family A (phosphoinositide binding spe | <i>PLEKHA3</i> | 65977 |
| 201410_at | pleckstrin homology domain containing, family B (evectins) member 2 | <i>PLEKHB2</i> | 55041 |
| 201411_s_at | pleckstrin homology domain containing, family B (evectins) member 2 | <i>PLEKHB2</i> | 55041 |
| 222699_s_at | pleckstrin homology domain containing, family F (with FYVE domain) member 2 | <i>PLEKHF2</i> | 79666 |
| 218640_s_at | pleckstrin homology domain containing, family F (with FYVE domain) member 2 | <i>PLEKHF2</i> | 79666 |
| 226122_at | pleckstrin homology domain containing, family G (with RhoGef domain) membe | <i>PLEKHG1</i> | 57480 |
| 212821_at | pleckstrin homology domain containing, family G (with RhoGef domain) membe | <i>PLEKHG3</i> | 26030 |
| 212146_at | pleckstrin homology domain containing, family M (with RUN domain) member 2 | <i>PLEKHM2</i> | 23207 |
| 204436_at | pleckstrin homology domain containing, family Q member 1 | <i>PLEKHQ1</i> | 80301 |
| 205871_at | plasminogen-like B2 /// plasminogen-like B1 /// plasminogen-like A1 | <i>PLGLA1 /// PLGLB1</i> | 100134363, |
| 214415_at | plasminogen-like B2 /// plasminogen-like B1 | <i>PLGLB1 /// PLGLB2</i> | 5342 /// 534 |
| 201939_at | polo-like kinase 2 (Drosophila) | <i>PLK2</i> | 10769 |
| 204958_at | polo-like kinase 3 (Drosophila) | <i>PLK3</i> | 1263 |
| 202620_s_at | procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2 | <i>PLOD2</i> | 5352 |
| 202619_s_at | procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2 | <i>PLOD2</i> | 5352 |
| 201136_at | proteolipid protein 2 (colonic epithelium-enriched) | <i>PLP2</i> | 5355 |
| 227246_at | pleiotropic regulator 1 (PRL1 homolog, Arabidopsis) | <i>PLRG1</i> | 5356 |

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| 218901_at | phospholipid scramblase 4 | <i>PLSCR4</i> | 57088 |
| 214081_at | plexin domain containing 1 | <i>PLXDC1</i> | 57125 |
| 227276_at | plexin domain containing 2 | <i>PLXDC2</i> | 84898 |
| 221537_at | plexin A1 | <i>PLXNA1</i> | 5361 |
| 213030_s_at | plexin A2 | <i>PLXNA2</i> | 5362 |
| 206471_s_at | plexin C1 | <i>PLXNC1</i> | 10154 |
| 204286_s_at | phorbol-12-myristate-13-acetate-induced protein 1 | <i>PMAIP1</i> | 5366 |
| 204285_s_at | phorbol-12-myristate-13-acetate-induced protein 1 | <i>PMAIP1</i> | 5366 |
| 224418_x_at | pro-melanin-concentrating hormone-like 1 | <i>PMCHL1</i> | 5369 |
| 224419_x_at | pro-melanin-concentrating hormone-like 1 | <i>PMCHL1</i> | 5369 |
| 235508_at | promyelocytic leukemia | <i>PML</i> | 5371 |
| 209640_at | promyelocytic leukemia | <i>PML</i> | 5371 |
| 206826_at | peripheral myelin protein 2 | <i>PMP2</i> | 5375 |
| 1570542_a_at | Peptidase (mitochondrial processing) beta | <i>PMPCB</i> | 9512 |
| 213677_s_at | PMS1 postmeiotic segregation increased 1 (<i>S. cerevisiae</i>) | <i>PMS1</i> | 5378 |
| 221206_at | PMS2 postmeiotic segregation increased 2 (<i>S. cerevisiae</i>) | <i>PMS2</i> | 441194 /// ! |
| 209805_at | PMS2 postmeiotic segregation increased 2 (<i>S. cerevisiae</i>) /// PMS2-C terminal-li | <i>PMS2</i> /// <i>PMS2CL</i> | 441194 /// ! |
| 242201_at | Postmeiotic segregation increased 2-like 5 | <i>PMS2L5</i> | 5383 |
| 225298_at | paroxysmal nonkinesigenic dyskinesia | <i>PNKD</i> | 25953 |
| 233177_s_at | paroxysmal nonkinesigenic dyskinesia | <i>PNKD</i> | 25953 |
| 218961_s_at | polynucleotide kinase 3'-phosphatase | <i>PNKP</i> | 11284 |
| 1567213_at | pinin, desmosome associated protein | <i>PNN</i> | 5411 |
| 212037_at | pinin, desmosome associated protein | <i>PNN</i> | 5411 |
| 1553364_at | patatin-like phospholipase domain containing 1 | <i>PNPLA1</i> | 285848 |
| 223982_s_at | patatin-like phospholipase domain containing 8 | <i>PNPLA8</i> | 50640 |
| 223310_x_at | patatin-like phospholipase domain containing 8 | <i>PNPLA8</i> | 50640 |
| 223309_x_at | patatin-like phospholipase domain containing 8 | <i>PNPLA8</i> | 50640 |
| 218511_s_at | pyridoxamine 5'-phosphate oxidase | <i>PNPO</i> | 55163 |
| 225291_at | polyribonucleotide nucleotidyltransferase 1 | <i>PNPT1</i> | 87178 |
| 209034_at | proline-rich nuclear receptor coactivator 1 | <i>PNRC1</i> | 10957 |
| 218229_s_at | pogo transposable element with KRAB domain | <i>POGK</i> | 57645 |
| 214226_at | polyserase 3 | <i>POL3S</i> | 339105 |
| 1554609_at | Polymerase (DNA-directed), delta 3, accessory subunit | <i>POLD3</i> | 10714 |
| 202996_at | polymerase (DNA-directed), delta 4 | <i>POLD4</i> | 57804 |
| 222425_s_at | polymerase (DNA-directed), delta interacting protein 2 | <i>POLDIP2</i> | 26073 |
| 205909_at | polymerase (DNA directed), epsilon 2 (p59 subunit) | <i>POLE2</i> | 5427 |
| 208828_at | polymerase (DNA directed), epsilon 3 (p17 subunit) | <i>POLE3</i> | 54107 |
| 219317_at | polymerase (DNA directed) iota | <i>POLI</i> | 11201 |
| 207746_at | polymerase (DNA directed), theta | <i>POLQ</i> | 10721 |
| 233341_s_at | polymerase (RNA) I polypeptide B, 128kDa | <i>POLR1B</i> | 84172 |
| 223403_s_at | polymerase (RNA) I polypeptide B, 128kDa | <i>POLR1B</i> | 84172 |
| 207515_s_at | polymerase (RNA) I polypeptide C, 30kDa | <i>POLR1C</i> | 9533 |
| 218258_at | polymerase (RNA) I polypeptide D, 16kDa | <i>POLR1D</i> | 51082 |
| 224857_s_at | polymerase (RNA) I polypeptide D, 16kDa | <i>POLR1D</i> | 51082 |
| 202725_at | polymerase (RNA) II (DNA directed) polypeptide A, 220kDa | <i>POLR2A</i> | 5430 |
| 1555836_at | Polymerase (RNA) II (DNA directed) polypeptide B, 140kDa | <i>POLR2B</i> | 5431 |
| 216282_x_at | polymerase (RNA) II (DNA directed) polypeptide C, 33kDa | <i>POLR2C</i> | 5432 |
| 208996_s_at | polymerase (RNA) II (DNA directed) polypeptide C, 33kDa | <i>POLR2C</i> | 5432 |
| 212782_x_at | polymerase (RNA) II (DNA directed) polypeptide J, 13.3kDa | <i>POLR2J</i> | 5439 |
| 211730_s_at | polymerase (RNA) II (DNA directed) polypeptide L, 7.6kDa | <i>POLR2L</i> | 5441 |
| 219459_at | polymerase (RNA) III (DNA directed) polypeptide B | <i>POLR3B</i> | 55703 |
| 218016_s_at | polymerase (RNA) III (DNA directed) polypeptide E (80kD) | <i>POLR3E</i> | 55718 |
| 217769_s_at | proteasome maturation protein | <i>POMP</i> | 51371 |
| 204839_at | processing of precursor 5, ribonuclease P/MRP subunit (<i>S. cerevisiae</i>) | <i>POP5</i> | 51367 |
| 208928_at | P450 (cytochrome) oxidoreductase | <i>POR</i> | 5447 |
| 204354_at | POT1 protection of telomeres 1 homolog (<i>S. pombe</i>) | <i>POT1</i> | 25913 |
| 204353_s_at | POT1 protection of telomeres 1 homolog (<i>S. pombe</i>) | <i>POT1</i> | 25913 |
| 206789_s_at | POU class 2 homeobox 1 | <i>POU2F1</i> | 5451 |
| 208345_s_at | POU class 3 homeobox 1 | <i>POU3F1</i> | 5453 |
| 206940_s_at | POU class 4 homeobox 1 | <i>POU4F1</i> | 100131317, |
| 217848_s_at | pyrophosphatase (inorganic) 1 | <i>PPA1</i> | 5464 |
| 1559496_at | Pyrophosphatase (inorganic) 2 | <i>PPA2</i> | 27068 |
| 212230_at | phosphatidic acid phosphatase type 2B | <i>PPAP2B</i> | 8613 |

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| 212226_s_at | phosphatidic acid phosphatase type 2B | <i>PPAP2B</i> | 8613 |
| 209355_s_at | phosphatidic acid phosphatase type 2B | <i>PPAP2B</i> | 8613 |
| 226384_at | phosphatidic acid phosphatase type 2 domain containing 1B | <i>PPAPDC1B</i> | 84513 |
| 226150_at | phosphatidic acid phosphatase type 2 domain containing 1B | <i>PPAPDC1B</i> | 84513 |
| 223568_s_at | phosphatidic acid phosphatase type 2 domain containing 1B | <i>PPAPDC1B</i> | 84513 |
| 223569_at | phosphatidic acid phosphatase type 2 domain containing 1B | <i>PPAPDC1B</i> | 84513 |
| 227385_at | phosphatidic acid phosphatase type 2 domain containing 2 | <i>PPAPDC2</i> | 403313 |
| 1560981_a_at | peroxisome proliferator-activated receptor alpha | <i>PPARA</i> | 5465 |
| 209433_s_at | phosphoribosyl pyrophosphate amidotransferase | <i>PPAT</i> | 5471 |
| 219066_at | phosphopantothenoylcysteine decarboxylase | <i>PPCDC</i> | 60490 |
| 210235_s_at | protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting | <i>PPFIA1</i> | 8500 |
| 202066_at | protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting | <i>PPFIA1</i> | 8500 |
| 202065_s_at | protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting | <i>PPFIA1</i> | 8500 |
| 210236_at | protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting | <i>PPFIA1</i> | 8500 |
| 232073_at | protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting | <i>PPFIA2</i> | 8499 |
| 214978_s_at | protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting | <i>PPFIA4</i> | 8497 |
| 1555351_s_at | periphilin 1 | <i>PPHLN1</i> | 51535 |
| 227025_at | periphilin 1 | <i>PPHLN1</i> | 51535 |
| 210502_s_at | peptidylprolyl isomerase E (cyclophilin E) | <i>PPIE</i> | 10450 |
| 201490_s_at | peptidylprolyl isomerase F (cyclophilin F) | <i>PPIF</i> | 10105 |
| 201489_at | peptidylprolyl isomerase F (cyclophilin F) | <i>PPIF</i> | 10105 |
| 224364_s_at | peptidylprolyl isomerase (cyclophilin)-like 3 | <i>PPII3</i> | 53938 |
| 203966_s_at | protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform | <i>PPM1A</i> | 5494 |
| 210407_at | protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform | <i>PPM1A</i> | 5494 |
| 37384_at | protein phosphatase 1F (PP2C domain containing) | <i>PPM1F</i> | 9647 |
| 203063_at | protein phosphatase 1F (PP2C domain containing) | <i>PPM1F</i> | 9647 |
| 212686_at | protein phosphatase 1H (PP2C domain containing) | <i>PPM1H</i> | 57460 |
| 235061_at | protein phosphatase 1K (PP2C domain containing) | <i>PPM1K</i> | 152926 |
| 218273_s_at | protein phosphatase 2C, magnesium-dependent, catalytic subunit | <i>PPM2C</i> | 54704 |
| 222572_at | protein phosphatase 2C, magnesium-dependent, catalytic subunit | <i>PPM2C</i> | 54704 |
| 217841_s_at | protein phosphatase methylesterase 1 | <i>PPME1</i> | 51400 |
| 200846_s_at | protein phosphatase 1, catalytic subunit, alpha isoform | <i>PPP1CA</i> | 5499 |
| 201408_at | protein phosphatase 1, catalytic subunit, beta isoform | <i>PPP1CB</i> | 5500 |
| 201409_s_at | protein phosphatase 1, catalytic subunit, beta isoform | <i>PPP1CB</i> | 5500 |
| 201407_s_at | protein phosphatase 1, catalytic subunit, beta isoform | <i>PPP1CB</i> | 5500 |
| 200726_at | protein phosphatase 1, catalytic subunit, gamma isoform | <i>PPP1CC</i> | 5501 |
| 201500_s_at | protein phosphatase 1, regulatory (inhibitor) subunit 11 | <i>PPP1R11</i> | 6992 |
| 1566303_s_at | protein phosphatase 1, regulatory (inhibitor) subunit 11 | <i>PPP1R11</i> | 6992 |
| 201604_s_at | protein phosphatase 1, regulatory (inhibitor) subunit 12A | <i>PPP1R12A</i> | 4659 |
| 201957_at | protein phosphatase 1, regulatory (inhibitor) subunit 12B | <i>PPP1R12B</i> | 4660 |
| 1557553_at | Protein phosphatase 1, regulatory (inhibitor) subunit 12B | <i>PPP1R12B</i> | 4660 |
| 212680_x_at | protein phosphatase 1, regulatory (inhibitor) subunit 14B | <i>PPP1R14B</i> | 26472 |
| 37028_at | protein phosphatase 1, regulatory (inhibitor) subunit 15A | <i>PPP1R15A</i> | 23645 |
| 202014_at | protein phosphatase 1, regulatory (inhibitor) subunit 15A | <i>PPP1R15A</i> | 23645 |
| 224692_at | protein phosphatase 1, regulatory (inhibitor) subunit 15B | <i>PPP1R15B</i> | 84919 |
| 41577_at | protein phosphatase 1, regulatory (inhibitor) subunit 16B | <i>PPP1R16B</i> | 26051 |
| 212750_at | protein phosphatase 1, regulatory (inhibitor) subunit 16B | <i>PPP1R16B</i> | 26051 |
| 202166_s_at | protein phosphatase 1, regulatory (inhibitor) subunit 2 | <i>PPP1R2</i> | 5504 |
| 204555_s_at | protein phosphatase 1, regulatory (inhibitor) subunit 3D | <i>PPP1R3D</i> | 5509 |
| 204554_at | protein phosphatase 1, regulatory (inhibitor) subunit 3D | <i>PPP1R3D</i> | 5509 |
| 229001_at | Protein phosphatase 1, regulatory (inhibitor) subunit 3E | <i>PPP1R3E</i> | 90673 |
| 227409_at | protein phosphatase 1, regulatory (inhibitor) subunit 3E | <i>PPP1R3E</i> | 90673 |
| 227412_at | protein phosphatase 1, regulatory (inhibitor) subunit 3E | <i>PPP1R3E</i> | 90673 |
| 229365_at | protein phosphatase 1, regulatory (inhibitor) subunit 3F | <i>PPP1R3F</i> | 89801 |
| 201214_s_at | protein phosphatase 1, regulatory (inhibitor) subunit 7 | <i>PPP1R7</i> | 5510 |
| 228494_at | protein phosphatase 1, regulatory (inhibitor) subunit 9A | <i>PPP1R9A</i> | 55607 |
| 208652_at | protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform | <i>PPP2CA</i> | 5515 |
| 202313_at | protein phosphatase 2 (formerly 2A), regulatory subunit B, alpha isoform | <i>PPP2R2A</i> | 5520 /// 800 |
| 228010_at | protein phosphatase 2 (formerly 2A), regulatory subunit B, gamma isoform | <i>PPP2R2C</i> | 5522 |
| 221772_s_at | protein phosphatase 2, regulatory subunit B, delta isoform | <i>PPP2R2D</i> | 55844 |
| 1569894_at | protein phosphatase 2 (formerly 2A), regulatory subunit B'', gamma | <i>PPP2R3C</i> | 55012 |
| 218852_at | protein phosphatase 2 (formerly 2A), regulatory subunit B'', gamma | <i>PPP2R3C</i> | 55012 |
| 202187_s_at | protein phosphatase 2, regulatory subunit B', alpha isoform | <i>PPP2R5A</i> | 5525 |

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|--------------|---|----------------|--------------|
| 635_s_at | protein phosphatase 2, regulatory subunit B', beta isoform | <i>PPP2R5B</i> | 5526 |
| 213305_s_at | protein phosphatase 2, regulatory subunit B', gamma isoform | <i>PPP2R5C</i> | 5527 |
| 214083_at | Protein phosphatase 2, regulatory subunit B', gamma isoform | <i>PPP2R5C</i> | 100132532 |
| 1557718_at | protein phosphatase 2, regulatory subunit B', gamma isoform | <i>PPP2R5C</i> | 5527 |
| 201877_s_at | protein phosphatase 2, regulatory subunit B', gamma isoform | <i>PPP2R5C</i> | 5527 |
| 202429_s_at | protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform | <i>PPP3CA</i> | 5530 |
| 202457_s_at | protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform | <i>PPP3CA</i> | 5530 |
| 32540_at | Protein phosphatase 3 (formerly 2B), catalytic subunit, gamma isoform | <i>PPP3CC</i> | 5533 |
| 32541_at | protein phosphatase 3 (formerly 2B), catalytic subunit, gamma isoform | <i>PPP3CC</i> | 5533 |
| 204507_s_at | protein phosphatase 3 (formerly 2B), regulatory subunit B, alpha isoform | <i>PPP3R1</i> | 116143 /// 5 |
| 208932_at | protein phosphatase 4 (formerly X), catalytic subunit | <i>PPP4C</i> | 5531 |
| 226317_at | protein phosphatase 4, regulatory subunit 2 | <i>PPP4R2</i> | 151987 |
| 225519_at | protein phosphatase 4, regulatory subunit 2 | <i>PPP4R2</i> | 151987 |
| 203529_at | protein phosphatase 6, catalytic subunit | <i>PPP6C</i> | 5537 |
| 200975_at | palmitoyl-protein thioesterase 1 (ceroid-lipofuscinosis, neuronal 1, infantile) | <i>PPT1</i> | 5538 |
| 235744_at | PTC7 protein phosphatase homolog (<i>S. cerevisiae</i>) | <i>PPTC7</i> | 160760 |
| 225204_at | PTC7 protein phosphatase homolog (<i>S. cerevisiae</i>) | <i>PPTC7</i> | 160760 |
| 225213_at | PTC7 protein phosphatase homolog (<i>S. cerevisiae</i>) | <i>PPTC7</i> | 160760 |
| 218208_at | PQ loop repeat containing 1 | <i>PQLC1</i> | 100131178 , |
| 1555781_at | PQ loop repeat containing 2 | <i>PQLC2</i> | 54896 |
| 225579_at | PQ loop repeat containing 3 | <i>PQLC3</i> | 130814 |
| 203456_at | PRA1 domain family, member 2 | <i>PRAF2</i> | 11230 |
| 1556727_at | progressive rod-cone degeneration | <i>PRCD</i> | 768206 |
| 49485_at | PR domain containing 4 | <i>PRDM4</i> | 11108 |
| 201619_at | peroxiredoxin 3 | <i>PRDX3</i> | 10935 |
| 201923_at | peroxiredoxin 4 | <i>PRDX4</i> | 10549 |
| 1560587_s_at | peroxiredoxin 5 | <i>PRDX5</i> | 25824 |
| 200844_s_at | peroxiredoxin 6 | <i>PRDX6</i> | 9588 |
| 224232_s_at | PRELI domain containing 1 | <i>PRELID1</i> | 27166 |
| 212217_at | prolyl endopeptidase-like | <i>PREPL</i> | 9581 |
| 212215_at | prolyl endopeptidase-like | <i>PREPL</i> | 9581 |
| 224909_s_at | phosphatidylinositol 3,4,5-trisphosphate-dependent RAC exchanger 1 | <i>PREX1</i> | 57580 |
| 224925_at | phosphatidylinositol 3,4,5-trisphosphate-dependent RAC exchanger 1 | <i>PREX1</i> | 57580 |
| 214617_at | perforin 1 (pore forming protein) | <i>PRF1</i> | 5551 |
| 1553681_a_at | perforin 1 (pore forming protein) | <i>PRF1</i> | 5551 |
| 211743_s_at | proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule m | <i>PRG2</i> | 5553 |
| 228230_at | peroxisomal proliferator-activated receptor A interacting complex 285 | <i>PRIC285</i> | 85441 |
| 232787_at | peroxisomal proliferator-activated receptor A interacting complex 285 | <i>PRIC285</i> | 85441 |
| 205053_at | primase, DNA, polypeptide 1 (49kDa) | <i>PRIM1</i> | 5557 |
| 215708_s_at | primase, DNA, polypeptide 2 (58kDa) | <i>PRIM2</i> | 5558 |
| 1555177_at | protein kinase, AMP-activated, alpha 1 catalytic subunit | <i>PRKAA1</i> | 5562 |
| 225984_at | protein kinase, AMP-activated, alpha 1 catalytic subunit | <i>PRKAA1</i> | 5562 |
| 214917_at | protein kinase, AMP-activated, alpha 1 catalytic subunit | <i>PRKAA1</i> | 5562 |
| 225985_at | protein kinase, AMP-activated, alpha 1 catalytic subunit | <i>PRKAA1</i> | 5562 |
| 240349_at | protein kinase, AMP-activated, alpha 2 catalytic subunit | <i>PRKAA2</i> | 5563 |
| 225278_at | protein kinase, AMP-activated, beta 2 non-catalytic subunit | <i>PRKAB2</i> | 5565 |
| 1558027_s_at | protein kinase, AMP-activated, beta 2 non-catalytic subunit | <i>PRKAB2</i> | 5565 |
| 214474_at | protein kinase, AMP-activated, beta 2 non-catalytic subunit | <i>PRKAB2</i> | 5565 |
| 202741_at | protein kinase, cAMP-dependent, catalytic, beta | <i>PRKACB</i> | 5567 |
| 202742_s_at | protein kinase, cAMP-dependent, catalytic, beta | <i>PRKACB</i> | 5567 |
| 201805_at | protein kinase, AMP-activated, gamma 1 non-catalytic subunit | <i>PRKAG1</i> | 5571 |
| 200605_s_at | protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific exting | <i>PRKAR1A</i> | 5573 |
| 200604_s_at | protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific exting | <i>PRKAR1A</i> | 5573 |
| 204842_x_at | protein kinase, cAMP-dependent, regulatory, type II, alpha | <i>PRKAR2A</i> | 5576 |
| 213093_at | protein kinase C, alpha | <i>PRKCA</i> | 5578 |
| 227824_at | Protein kinase C, beta 1 | <i>PRKCB1</i> | 5579 |
| 227817_at | Protein kinase C, beta 1 | <i>PRKCB1</i> | 5579 |
| 207957_s_at | protein kinase C, beta 1 | <i>PRKCB1</i> | 5579 |
| 228795_at | Protein kinase C, beta 1 | <i>PRKCB1</i> | 5579 |
| 202545_at | protein kinase C, delta | <i>PRKCD</i> | 5580 |
| 200707_at | protein kinase C substrate 80K-H | <i>PRKCSH</i> | 5589 |
| 38269_at | protein kinase D2 | <i>PRKD2</i> | 25865 |
| 222565_s_at | protein kinase D3 | <i>PRKD3</i> | 23683 |

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| 218236_s_at | protein kinase D3 | <i>PRKD3</i> | 23683 |
| 208694_at | protein kinase, DNA-activated, catalytic polypeptide | <i>PRKDC</i> | 5591 |
| 222615_s_at | PRKR interacting protein 1 (IL11 inducible) | <i>PRKRIP1</i> | 79706 |
| 218378_s_at | PRKR interacting protein 1 (IL11 inducible) | <i>PRKRIP1</i> | 79706 |
| 209323_at | protein-kinase, interferon-inducible double stranded RNA dependent inhibitor, I | <i>PRKRIR</i> | 5612 |
| 204061_at | protein kinase, X-linked | <i>PRKX</i> | 5613 |
| 204060_s_at | protein kinase, X-linked /// protein kinase, Y-linked | <i>PRKX /// PRKY</i> | 5613 /// 561 |
| 221443_x_at | prolactin releasing hormone | <i>PRLH</i> | 51052 |
| 227629_at | Prolactin receptor | <i>PRLR</i> | 5618 |
| 231981_at | Prolactin receptor | <i>PRLR</i> | 5618 |
| 221564_at | protein arginine methyltransferase 2 | <i>PRMT2</i> | 3275 |
| 228722_at | protein arginine methyltransferase 2 | <i>PRMT2</i> | 3275 |
| 213320_at | protein arginine methyltransferase 3 | <i>PRMT3</i> | 10196 |
| 201300_s_at | prion protein (p27-30) (Creutzfeldt-Jakob disease, Gerstmann-Strausler-Scheink | <i>PRNP</i> | 5621 |
| 227510_x_at | PRO1073 protein | <i>PRO1073</i> | 378938 |
| 231735_s_at | PRO1073 protein | <i>PRO1073</i> | 378938 |
| 233810_x_at | PRO1268 protein | <i>PRO1268</i> | --- |
| 233740_at | PRO1268 protein | <i>PRO1268</i> | --- |
| 220883_at | hypothetical protein PRO2012 | <i>PRO2012</i> | 55478 |
| 220872_at | hypothetical protein PRO2964 | <i>PRO2964</i> | 55415 |
| 214203_s_at | proline dehydrogenase (oxidase) 1 | <i>PRODH</i> | 5625 |
| 204304_s_at | prominin 1 | <i>PROM1</i> | 8842 |
| 207808_s_at | protein S (alpha) | <i>PROS1</i> | 5627 |
| 228656_at | Prospero homeobox 1 | <i>PROX1</i> | 5629 |
| 209162_s_at | PRP4 pre-mRNA processing factor 4 homolog (yeast) | <i>PRPF4</i> | 9128 |
| 226687_at | PRP40 pre-mRNA processing factor 40 homolog A (S. cerevisiae) | <i>PRPF40A</i> | 55660 |
| 236477_at | PRP40 pre-mRNA processing factor 40 homolog A (S. cerevisiae) | <i>PRPF40A</i> | 55660 |
| 202126_at | PRP4 pre-mRNA processing factor 4 homolog B (yeast) | <i>PRPF4B</i> | 8899 |
| 202127_at | PRP4 pre-mRNA processing factor 4 homolog B (yeast) | <i>PRPF4B</i> | 8899 |
| 208880_s_at | PRP6 pre-mRNA processing factor 6 homolog (S. cerevisiae) | <i>PRPF6</i> | 24148 |
| 209440_at | phosphoribosyl pyrophosphate synthetase 1 | <i>PRPS1</i> | 5631 |
| 203401_at | phosphoribosyl pyrophosphate synthetase 2 | <i>PRPS2</i> | 5634 |
| 203537_at | phosphoribosyl pyrophosphate synthetase-associated protein 2 | <i>PRPSAP2</i> | 5636 |
| 219392_x_at | proline rich 11 | <i>PRR11</i> | 55771 |
| 232215_x_at | proline rich 11 | <i>PRR11</i> | 55771 |
| 217794_at | proline rich 13 | <i>PRR13</i> | 54458 |
| 45687_at | proline rich 14 | <i>PRR14</i> | 78994 |
| 218714_at | proline rich 14 | <i>PRR14</i> | 78994 |
| 1559397_s_at | proline rich 14 | <i>PRR14</i> | 78994 |
| 226611_s_at | proline rich 6 | <i>PRR6</i> | 201161 |
| 219742_at | proline rich 7 (synaptic) | <i>PRR7</i> | 80758 |
| 205618_at | proline rich Gla (G-carboxyglutamic acid) 1 | <i>PRRG1</i> | 5638 |
| 238513_at | Proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane) | <i>PRRG4</i> | 79056 |
| 205991_s_at | paired related homeobox 1 | <i>PRRX1</i> | 5396 |
| 1552349_a_at | protease, serine, 33 | <i>PRSS33</i> | 260429 |
| 207638_at | protease, serine, 7 (enterokinase) | <i>PRSS7</i> | 5651 |
| 217269_s_at | protease, serine, 7 (enterokinase) | <i>PRSS7</i> | 5651 |
| 222803_at | phosphoribosyl transferase domain containing 1 | <i>PRTFDC1</i> | 56952 |
| 209586_s_at | prune homolog (Drosophila) | <i>PRUNE</i> | 58497 |
| 210988_s_at | prune homolog (Drosophila) | <i>PRUNE</i> | 58497 |
| 226381_at | HBV preS1-transactivated protein 4 | <i>PS1TP4</i> | 414327 |
| 200866_s_at | prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy | <i>PSAP</i> | 5660 |
| 200871_s_at | prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy | <i>PSAP</i> | 5660 |
| 202880_s_at | pleckstrin homology, Sec7 and coiled-coil domains 1(cytohesin 1) | <i>PSCD1</i> | 9267 |
| 202879_s_at | pleckstrin homology, Sec7 and coiled-coil domains 1(cytohesin 1) | <i>PSCD1</i> | 9267 |
| 209158_s_at | pleckstrin homology, Sec7 and coiled-coil domains 2 (cytohesin-2) | <i>PSCD2</i> | 9266 |
| 209606_at | pleckstrin homology, Sec7 and coiled-coil domains, binding protein | <i>PSCDBP</i> | 9595 |
| 203355_s_at | pleckstrin and Sec7 domain containing 3 | <i>PSD3</i> | 23362 |
| 207782_s_at | presenilin 1 (Alzheimer disease 3) | <i>PSEN1</i> | 5663 |
| 203460_s_at | presenilin 1 (Alzheimer disease 3) | <i>PSEN1</i> | 5663 |
| 210195_s_at | pregnancy specific beta-1-glycoprotein 1 | <i>PSG1</i> | 5669 |
| 211741_x_at | pregnancy specific beta-1-glycoprotein 3 | <i>PSG3</i> | 5671 |
| 209738_x_at | pregnancy specific beta-1-glycoprotein 6 | <i>PSG6</i> | 5675 |

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| 239910_at | pregnancy specific beta-1-glycoprotein 6 | <i>PSG6</i> | 5675 |
| 209594_x_at | pregnancy specific beta-1-glycoprotein 9 | <i>PSG9</i> | 5678 |
| 205961_s_at | PC4 and SFRS1 interacting protein 1 | <i>PSIP1</i> | 11168 |
| 209337_at | PC4 and SFRS1 interacting protein 1 | <i>PSIP1</i> | 11168 |
| 201316_at | proteasome (prosome, macropain) subunit, alpha type, 2 | <i>PSMA2</i> | 5683 |
| 201532_at | proteasome (prosome, macropain) subunit, alpha type, 3 | <i>PSMA3</i> | 5684 |
| 208805_at | proteasome (prosome, macropain) subunit, alpha type, 6 | <i>PSMA6</i> | 5687 /// 969 |
| 201114_x_at | proteasome (prosome, macropain) subunit, alpha type, 7 | <i>PSMA7</i> | 5688 |
| 216088_s_at | proteasome (prosome, macropain) subunit, alpha type, 7 | <i>PSMA7</i> | 5688 |
| 200039_s_at | proteasome (prosome, macropain) subunit, beta type, 2 | <i>PSMB2</i> | 5690 |
| 228204_at | Proteasome (prosome, macropain) subunit, beta type, 4 | <i>PSMB4</i> | 5692 |
| 208827_at | proteasome (prosome, macropain) subunit, beta type, 6 | <i>PSMB6</i> | 5694 |
| 200786_at | proteasome (prosome, macropain) subunit, beta type, 7 | <i>PSMB7</i> | 5695 |
| 201068_s_at | proteasome (prosome, macropain) 26S subunit, ATPase, 2 | <i>PSMC2</i> | 5701 |
| 201699_at | proteasome (prosome, macropain) 26S subunit, ATPase, 6 | <i>PSMC6</i> | 5706 |
| 201198_s_at | proteasome (prosome, macropain) 26S subunit, non-ATPase, 1 | <i>PSMD1</i> | 5707 |
| 212296_at | proteasome (prosome, macropain) 26S subunit, non-ATPase, 14 | <i>PSMD14</i> | 10213 |
| 211609_x_at | proteasome (prosome, macropain) 26S subunit, non-ATPase, 4 | <i>PSMD4</i> | 5710 |
| 232284_at | Proteasome (prosome, macropain) 26S subunit, non-ATPase, 6 | <i>PSMD6</i> | 9861 |
| 200820_at | proteasome (prosome, macropain) 26S subunit, non-ATPase, 8 | <i>PSMD8</i> | 5714 |
| 201762_s_at | proteasome (prosome, macropain) activator subunit 2 (PA28 beta) | <i>PSME2</i> | 5721 |
| 200987_x_at | proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki) | <i>PSME3</i> | 10197 |
| 201052_s_at | proteasome (prosome, macropain) inhibitor subunit 1 (PI31) | <i>PSMF1</i> | 9491 |
| 226574_at | paraspeckle component 1 | <i>PSPC1</i> | 55269 |
| 219938_s_at | proline-serine-threonine phosphatase interacting protein 2 | <i>PSTPIP2</i> | 9050 |
| 243995_at | protein prenyltransferase alpha subunit repeat containing 1 | <i>PTAR1</i> | 375743 |
| 211271_x_at | polypyrimidine tract binding protein 1 | <i>PTBP1</i> | 5725 |
| 212015_x_at | polypyrimidine tract binding protein 1 | <i>PTBP1</i> | 5725 |
| 211270_x_at | polypyrimidine tract binding protein 1 | <i>PTBP1</i> | 5725 |
| 222796_at | pentatricopeptide repeat domain 1 | <i>PTCD1</i> | 26024 |
| 228512_at | Pentatricopeptide repeat domain 3 | <i>PTCD3</i> | 55037 |
| 209816_at | patched homolog 1 (Drosophila) | <i>PTCH1</i> | 5727 |
| 201433_s_at | phosphatidylserine synthase 1 | <i>PTDSS1</i> | 9791 |
| 204053_x_at | phosphatase and tensin homolog (mutated in multiple advanced cancers 1) | <i>PTEN</i> | 5728 |
| 233314_at | phosphatase and tensin homolog (mutated in multiple advanced cancers 1) | <i>PTEN</i> | 5728 |
| 222798_at | phosphotriesterase related | <i>PTER</i> | 9317 |
| 218967_s_at | phosphotriesterase related | <i>PTER</i> | 9317 |
| 215894_at | prostaglandin D2 receptor (DP) | <i>PTGDR</i> | 5729 |
| 234165_at | prostaglandin D2 receptor (DP) | <i>PTGDR</i> | 5729 |
| 206631_at | prostaglandin E receptor 2 (subtype EP2), 53kDa | <i>PTGER2</i> | 5732 |
| 204897_at | prostaglandin E receptor 4 (subtype EP4) | <i>PTGER4</i> | 5734 |
| 204896_s_at | prostaglandin E receptor 4 (subtype EP4) | <i>PTGER4</i> | 5734 |
| 210367_s_at | prostaglandin E synthase | <i>PTGES</i> | 9536 |
| 207388_s_at | prostaglandin E synthase | <i>PTGES</i> | 9536 |
| 200627_at | prostaglandin E synthase 3 (cytosolic) | <i>PTGES3</i> | 10728 |
| 208131_s_at | prostaglandin I2 (prostacyclin) synthase | <i>PTGIS</i> | 5740 |
| 203110_at | PTK2B protein tyrosine kinase 2 beta | <i>PTK2B</i> | 2185 |
| 203111_s_at | PTK2B protein tyrosine kinase 2 beta | <i>PTK2B</i> | 2185 |
| 200772_x_at | prothymosin, alpha (gene sequence 28) | <i>PTMA</i> | 5757 |
| 211921_x_at | prothymosin, alpha (gene sequence 28) | <i>PTMA</i> | 5757 |
| 209465_x_at | pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor) | <i>PTN</i> | 5764 |
| 211737_x_at | pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor) | <i>PTN</i> | 5764 |
| 212032_s_at | prostate tumor overexpressed gene 1 | <i>PTOV1</i> | 53635 |
| 200730_s_at | protein tyrosine phosphatase type IVA, member 1 | <i>PTP4A1</i> | 7803 |
| 200733_s_at | protein tyrosine phosphatase type IVA, member 1 | <i>PTP4A1</i> | 7803 |
| 200731_s_at | protein tyrosine phosphatase type IVA, member 1 | <i>PTP4A1</i> | 7803 |
| 208615_s_at | protein tyrosine phosphatase type IVA, member 2 | <i>PTP4A2</i> | 8073 |
| 208616_s_at | protein tyrosine phosphatase type IVA, member 2 | <i>PTP4A2</i> | 8073 |
| 216988_s_at | protein tyrosine phosphatase type IVA, member 2 | <i>PTP4A2</i> | 8073 |
| 202006_at | protein tyrosine phosphatase, non-receptor type 12 | <i>PTPN12</i> | 5782 |
| 216915_s_at | protein tyrosine phosphatase, non-receptor type 12 | <i>PTPN12</i> | 5782 |
| 213521_at | protein tyrosine phosphatase, non-receptor type 18 (brain-derived) | <i>PTPN18</i> | 26469 |
| 203555_at | protein tyrosine phosphatase, non-receptor type 18 (brain-derived) | <i>PTPN18</i> | 26469 |

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| 215172_at | protein tyrosine phosphatase, non-receptor type 20B /// protein tyrosine phosph | <i>PTPN20A</i> /// <i>PTPN.26095</i> /// 65 | |
| 223150_s_at | protein tyrosine phosphatase, non-receptor type 23 | <i>PTPN23</i> | 25930 |
| 205171_at | protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) | <i>PTPN4</i> | 5775 |
| 233226_at | Protein tyrosine phosphatase, non-receptor type 9 | <i>PTPN9</i> | 5780 |
| 233776_at | Protein tyrosine phosphatase, receptor type, A | <i>PTPRA</i> | 5786 |
| 230250_at | Protein tyrosine phosphatase, receptor type, B | <i>PTPRB</i> | 5787 |
| 1560105_at | Protein tyrosine phosphatase, receptor type, B | <i>PTPRB</i> | 5787 |
| 213362_at | protein tyrosine phosphatase, receptor type, D | <i>PTPRD</i> | 5789 |
| 214043_at | protein tyrosine phosphatase, receptor type, D | <i>PTPRD</i> | 5789 |
| 205712_at | protein tyrosine phosphatase, receptor type, D | <i>PTPRD</i> | 5789 |
| 221840_at | protein tyrosine phosphatase, receptor type, E | <i>PTPRE</i> | 5791 |
| 204944_at | protein tyrosine phosphatase, receptor type, G | <i>PTPRG</i> | 5793 |
| 227396_at | protein tyrosine phosphatase, receptor type, J | <i>PTPRJ</i> | 5795 |
| 210173_at | protein tyrosine phosphatase, receptor type, J | <i>PTPRJ</i> | 5795 |
| 203038_at | protein tyrosine phosphatase, receptor type, K | <i>PTPRK</i> | 5796 |
| 233609_at | Protein tyrosine phosphatase, receptor type, K | <i>PTPRK</i> | 5796 |
| 203029_s_at | protein tyrosine phosphatase, receptor type, N polypeptide 2 | <i>PTPRN2</i> | 5799 |
| 204469_at | protein tyrosine phosphatase, receptor-type, Z polypeptide 1 | <i>PTPRZ1</i> | 5803 |
| 218732_at | peptidyl-tRNA hydrolase 2 | <i>PTRH2</i> | 51651 |
| 209694_at | 6-pyruvoyltetrahydropterin synthase | <i>PTS</i> | 5805 |
| 200677_at | pituitary tumor-transforming 1 interacting protein | <i>PTTG1IP</i> | 754 |
| 204020_at | purine-rich element binding protein A | <i>PURA</i> | 5813 |
| 235634_at | purine-rich element binding protein G | <i>PURG</i> | 29942 |
| 221277_s_at | pseudouridylate synthase 3 | <i>PUS3</i> | 83480 |
| 218984_at | pseudouridylate synthase 7 homolog (S. cerevisiae) | <i>PUS7</i> | 54517 |
| 229751_s_at | pseudouridylate synthase 7 homolog (S. cerevisiae)-like | <i>PUS7L</i> | 83448 |
| 221025_x_at | pseudouridylate synthase 7 homolog (S. cerevisiae)-like | <i>PUS7L</i> | 83448 |
| 219812_at | poliovirus receptor related immunoglobulin domain containing | <i>PVRIG</i> | 79037 |
| 213325_at | poliovirus receptor-related 3 | <i>PVRL3</i> | 25945 |
| 201606_s_at | PWP1 homolog (S. cerevisiae) | <i>PWP1</i> | 11137 |
| 201608_s_at | PWP1 homolog (S. cerevisiae) | <i>PWP1</i> | 11137 |
| 227999_at | PWWP domain containing 2 | <i>PWWP2</i> | 170394 |
| 219428_s_at | peroxisomal membrane protein 4, 24kDa | <i>PXMP4</i> | 11264 |
| 221666_s_at | PYD and CARD domain containing | <i>PYCARD</i> | 29108 |
| 219802_at | pyridine nucleotide-disulphide oxidoreductase domain 1 | <i>PYROXD1</i> | 79912 |
| 217846_at | glutaminyl-tRNA synthetase | <i>QARS</i> | 5859 |
| 212262_at | quaking homolog, KH domain RNA binding (mouse) | <i>QKI</i> | 9444 |
| 236154_at | Quaking homolog, KH domain RNA binding (mouse) | <i>QKI</i> | 9444 |
| 1555154_a_at | quaking homolog, KH domain RNA binding (mouse) | <i>QKI</i> | 9444 |
| 212636_at | quaking homolog, KH domain RNA binding (mouse) | <i>QKI</i> | 9444 |
| 212263_at | quaking homolog, KH domain RNA binding (mouse) | <i>QKI</i> | 9444 |
| 214543_x_at | quaking homolog, KH domain RNA binding (mouse) | <i>QKI</i> | 9444 |
| 214541_s_at | quaking homolog, KH domain RNA binding (mouse) | <i>QKI</i> | 9444 |
| 228540_at | quaking homolog, KH domain RNA binding (mouse) | <i>QKI</i> | 9444 |
| 205174_s_at | glutaminyl-peptide cyclotransferase (glutaminyl cyclase) | <i>QPCT</i> | 25797 |
| 218949_s_at | glutaminyl-tRNA synthase (glutamine-hydrolyzing)-like 1 | <i>QRSL1</i> | 55278 |
| 244563_at | glutamine and serine rich 1 | <i>QSER1</i> | 79832 |
| 226265_at | glutamine and serine rich 1 | <i>QSER1</i> | 79832 |
| 202754_at | R3H domain containing 1 | <i>R3HDM1</i> | 23518 |
| 222981_s_at | RAB10, member RAS oncogene family | <i>RAB10</i> | 10890 |
| 200863_s_at | RAB11A, member RAS oncogene family | <i>RAB11A</i> | 8766 |
| 219681_s_at | RAB11 family interacting protein 1 (class I) | <i>RAB11FIP1</i> | 80223 |
| 228613_at | RAB11 family interacting protein 3 (class II) | <i>RAB11FIP3</i> | 9727 |
| 224482_s_at | RAB11 family interacting protein 4 (class II) | <i>RAB11FIP4</i> | 84440 |
| 225746_at | RAB11 family interacting protein 4 (class II) | <i>RAB11FIP4</i> | 84440 |
| 202252_at | RAB13, member RAS oncogene family | <i>RAB13</i> | 5872 |
| 200928_s_at | RAB14, member RAS oncogene family | <i>RAB14</i> | 51552 |
| 208724_s_at | RAB1A, member RAS oncogene family | <i>RAB1A</i> | 5861 |
| 207791_s_at | RAB1A, member RAS oncogene family | <i>RAB1A</i> | 5861 |
| 219622_at | RAB20, member RAS oncogene family | <i>RAB20</i> | 55647 |
| 203885_at | RAB21, member RAS oncogene family | <i>RAB21</i> | 23011 |
| 226268_at | RAB21, member RAS oncogene family | <i>RAB21</i> | 23011 |
| 218360_at | RAB22A, member RAS oncogene family | <i>RAB22A</i> | 57403 |

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|--------------|--|---------------------------------|--------------|
| 223463_at | RAB23, member RAS oncogene family | <i>RAB23</i> | 51715 |
| 50965_at | RAB26, member RAS oncogene family | <i>RAB26</i> | 25837 |
| 208734_x_at | RAB2A, member RAS oncogene family | <i>RAB2A</i> | 5862 |
| 208733_at | RAB2A, member RAS oncogene family | <i>RAB2A</i> | 5862 |
| 228003_at | RAB30, member RAS oncogene family | <i>RAB30</i> | 27314 |
| 227842_at | RAB30, member RAS oncogene family | <i>RAB30</i> | 27314 |
| 228161_at | RAB32, member RAS oncogene family | <i>RAB32</i> | 10981 |
| 204214_s_at | RAB32, member RAS oncogene family | <i>RAB32</i> | 10981 |
| 206039_at | RAB33A, member RAS oncogene family | <i>RAB33A</i> | 9363 |
| 225620_at | RAB35, member RAS oncogene family | <i>RAB35</i> | 11021 |
| 205461_at | RAB35, member RAS oncogene family | <i>RAB35</i> | 11021 |
| 228113_at | RAB37, member RAS oncogene family | <i>RAB37</i> | 326624 |
| 241977_s_at | RAB3C, member RAS oncogene family | <i>RAB3C</i> | 115827 |
| 208466_at | RAB3D, member RAS oncogene family | <i>RAB3D</i> | 9545 |
| 225001_at | RAB3D, member RAS oncogene family | <i>RAB3D</i> | 9545 |
| 239527_at | RAB3 GTPase activating protein subunit 1 (catalytic) | <i>RAB3GAP1</i> | 22930 |
| 243851_at | RAB3 GTPase activating protein subunit 2 (non-catalytic) | <i>RAB3GAP2</i> | 25782 |
| 231399_at | RAB3A interacting protein (rabin3) | <i>RAB3IP</i> | 117177 |
| 203582_s_at | RAB4A, member RAS oncogene family | <i>RAB4A</i> | 5867 |
| 219807_x_at | RAB4B, member RAS oncogene family | <i>RAB4B</i> | 53916 |
| 209089_at | RAB5A, member RAS oncogene family | <i>RAB5A</i> | 5868 |
| 206113_s_at | RAB5A, member RAS oncogene family | <i>RAB5A</i> | 5868 |
| 201140_s_at | RAB5C, member RAS oncogene family | <i>RAB5C</i> | 5878 |
| 201156_s_at | RAB5C, member RAS oncogene family | <i>RAB5C</i> | 5878 |
| 201048_x_at | RAB6A, member RAS oncogene family | <i>RAB6A</i> | 5870 |
| 212561_at | RAB6 interacting protein 1 | <i>RAB6IP1</i> | 23258 |
| 211961_s_at | RAB7A, member RAS oncogene family | <i>RAB7A</i> | 7879 |
| 211960_s_at | RAB7A, member RAS oncogene family | <i>RAB7A</i> | 7879 |
| 218699_at | RAB7, member RAS oncogene family-like 1 | <i>RAB7L1</i> | 8934 |
| 218700_s_at | RAB7, member RAS oncogene family-like 1 | <i>RAB7L1</i> | 8934 |
| 219210_s_at | RAB8B, member RAS oncogene family | <i>RAB8B</i> | 51762 |
| 222846_at | RAB8B, member RAS oncogene family | <i>RAB8B</i> | 51762 |
| 226633_at | RAB8B, member RAS oncogene family | <i>RAB8B</i> | 51762 |
| 221808_at | RAB9A, member RAS oncogene family | <i>RAB9A</i> | 9367 |
| 213313_at | RAB GTPase activating protein 1 | <i>RABGAP1</i> | 23637 |
| 204028_s_at | RAB GTPase activating protein 1 | <i>RABGAP1</i> | 23637 |
| 213982_s_at | RAB GTPase activating protein 1-like | <i>RABGAP1L</i> | 9910 |
| 232702_at | RAB GTPase activating protein 1-like | <i>RABGAP1L</i> | 9910 |
| 203020_at | RAB GTPase activating protein 1-like | <i>RABGAP1L</i> | 9910 |
| 215342_s_at | RAB GTPase activating protein 1-like | <i>RABGAP1L</i> | 9910 |
| 218310_at | RAB guanine nucleotide exchange factor (GEF) 1 | <i>RABGEF1</i> | 27342 |
| 219151_s_at | RAB, member of RAS oncogene family-like 2B /// RAB, member of RAS oncogen | <i>RABL2A</i> /// <i>RABL2E</i> | 11158 /// 1: |
| 1567458_s_at | ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protei | <i>RAC1</i> | 5879 |
| 208641_s_at | ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protei | <i>RAC1</i> | 5879 |
| 207419_s_at | ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protei | <i>RAC2</i> | 5880 |
| 222077_s_at | Rac GTPase activating protein 1 | <i>RACGAP1</i> | 29127 |
| 204461_x_at | RAD1 homolog (S. pombe) | <i>RAD1</i> | 5810 |
| 210216_x_at | RAD1 homolog (S. pombe) | <i>RAD1</i> | 5810 |
| 235253_at | RAD1 homolog (S. pombe) | <i>RAD1</i> | 5810 |
| 204460_s_at | RAD1 homolog (S. pombe) | <i>RAD1</i> | 5810 |
| 210826_x_at | RAD17 homolog (S. pombe) | <i>RAD17</i> | 5884 |
| 207405_s_at | RAD17 homolog (S. pombe) | <i>RAD17</i> | 5884 |
| 200608_s_at | RAD21 homolog (S. pombe) | <i>RAD21</i> | 5885 |
| 201223_s_at | RAD23 homolog B (S. cerevisiae) | <i>RAD23B</i> | 5887 |
| 201222_s_at | RAD23 homolog B (S. cerevisiae) | <i>RAD23B</i> | 5887 |
| 204146_at | RAD51 associated protein 1 | <i>RAD51AP1</i> | 10635 |
| 37793_r_at | RAD51-like 3 (S. cerevisiae) | <i>RAD51L3</i> | 5892 |
| 220549_at | RAD54 homolog B (S. cerevisiae) | <i>RAD54B</i> | 100128414 , |
| 204828_at | RAD9 homolog A (S. pombe) | <i>RAD9A</i> | 5883 |
| 1557675_at | V-raf-1 murine leukemia viral oncogene homolog 1 | <i>RAF1</i> | 5894 |
| 201244_s_at | v-raf-1 murine leukemia viral oncogene homolog 1 | <i>RAF1</i> | 5894 |
| 214435_x_at | v-ral simian leukemia viral oncogene homolog A (ras related) | <i>RALA</i> | 5898 |
| 202100_at | v-ral simian leukemia viral oncogene homolog B (ras related; GTP binding protei | <i>RALB</i> | 5899 |

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|--------------|--|-------------------------|--------------|
| 202845_s_at | ralA binding protein 1 | <i>RALBP1</i> | 10928 |
| 202844_s_at | ralA binding protein 1 | <i>RALBP1</i> | 10928 |
| 226957_x_at | ralA binding protein 1 | <i>RALBP1</i> | 10928 |
| 209051_s_at | ral guanine nucleotide dissociation stimulator | <i>RALGDS</i> | 5900 |
| 209050_s_at | ral guanine nucleotide dissociation stimulator | <i>RALGDS</i> | 5900 |
| 232112_at | Ral GEF with PH domain and SH3 binding motif 2 | <i>RALGPS2</i> | 55103 |
| 242458_at | Ral GEF with PH domain and SH3 binding motif 2 | <i>RALGPS2</i> | 55103 |
| 201711_x_at | RAN binding protein 2 | <i>RANBP2</i> | 5903 |
| 201713_s_at | RAN binding protein 2 | <i>RANBP2</i> | 5903 |
| 226922_at | RAN binding protein 2 | <i>RANBP2</i> | 5903 |
| 201712_s_at | RAN binding protein 2 | <i>RANBP2</i> | 5903 |
| 242712_x_at | RAN binding protein 2 /// RANBP2-like and GRIP domain containing 5 /// RANBF | <i>RANBP2 /// RGPD1</i> | 285190 /// 4 |
| 202640_s_at | RAN binding protein 3 | <i>RANBP3</i> | 8498 |
| 211953_s_at | RAN binding protein 5 | <i>RANBP5</i> | 3843 |
| 211955_at | RAN binding protein 5 | <i>RANBP5</i> | 3843 |
| 211954_s_at | RAN binding protein 5 | <i>RANBP5</i> | 3843 |
| 213019_at | RAN binding protein 6 | <i>RANBP6</i> | 26953 |
| 202583_s_at | RAN binding protein 9 | <i>RANBP9</i> | 10048 |
| 202582_s_at | RAN binding protein 9 | <i>RANBP9</i> | 10048 |
| 216125_s_at | RAN binding protein 9 | <i>RANBP9</i> | 10048 |
| 218526_s_at | RAN guanine nucleotide release factor | <i>RANGRF</i> | 29098 |
| 237856_at | RAP1, GTP-GDP dissociation stimulator 1 | <i>RAP1GDS1</i> | 5910 |
| 229905_at | RAP1, GTP-GDP dissociation stimulator 1 | <i>RAP1GDS1</i> | 5910 |
| 225585_at | RAP2A, member of RAS oncogene family | <i>RAP2A</i> | 5911 |
| 227897_at | RAP2B, member of RAS oncogene family | <i>RAP2B</i> | 5912 |
| 218669_at | RAP2C, member of RAS oncogene family | <i>RAP2C</i> | 57826 |
| 218668_s_at | RAP2C, member of RAS oncogene family | <i>RAP2C</i> | 57826 |
| 226389_s_at | Rap guanine nucleotide exchange factor (GEF) 1 | <i>RAPGEF1</i> | 2889 |
| 225738_at | Rap guanine nucleotide exchange factor (GEF) 1 | <i>RAPGEF1</i> | 2889 |
| 204543_at | Rap guanine nucleotide exchange factor (GEF) 1 | <i>RAPGEF1</i> | 2889 |
| 203096_s_at | Rap guanine nucleotide exchange factor (GEF) 2 | <i>RAPGEF2</i> | 9693 |
| 203097_s_at | Rap guanine nucleotide exchange factor (GEF) 2 | <i>RAPGEF2</i> | 9693 |
| 215987_at | Rap guanine nucleotide exchange factor (GEF) 2 | <i>RAPGEF2</i> | 9693 |
| 1555247_a_at | Rap guanine nucleotide exchange factor (GEF) 6 | <i>RAPGEF6</i> | 51735 |
| 219112_at | Rap guanine nucleotide exchange factor (GEF) 6 | <i>RAPGEF6</i> | 51735 |
| 230078_at | Rap guanine nucleotide exchange factor (GEF) 6 | <i>RAPGEF6</i> | 51735 |
| 231075_x_at | Ras association (RalGDS/AF-6) and pleckstrin homology domains 1 | <i>RAPH1</i> | 65059 |
| 204070_at | retinoic acid receptor responder (tazarotene induced) 3 | <i>RARRES3</i> | 5920 |
| 232902_s_at | arginyl-tRNA synthetase 2, mitochondrial (putative) | <i>RARS2</i> | 57038 |
| 206636_at | RAS p21 protein activator 2 | <i>RASA2</i> | 5922 |
| 212706_at | RAS p21 protein activator 4 | <i>RASA4</i> | 100132214, |
| 227036_at | RAS protein activator like 2 | <i>RASAL2</i> | --- |
| 1557432_at | RAS protein activator like 2 | <i>RASAL2</i> | 9462 |
| 1553186_x_at | RAS and EF-hand domain containing | <i>RASEF</i> | 158158 |
| 1553185_at | RAS and EF-hand domain containing | <i>RASEF</i> | 158158 |
| 230563_at | RasGEF domain family, member 1A | <i>RASGEF1A</i> | 221002 |
| 208206_s_at | RAS guanyl releasing protein 2 (calcium and DAG-regulated) | <i>RASGRP2</i> | 10235 |
| 214369_s_at | RAS guanyl releasing protein 2 (calcium and DAG-regulated) | <i>RASGRP2</i> | 10235 |
| 219142_at | RAS-like, family 11, member B | <i>RASL11B</i> | 65997 |
| 204346_s_at | Ras association (RalGDS/AF-6) domain family 1 | <i>RASSF1</i> | 11186 |
| 226436_at | Ras association (RalGDS/AF-6) domain family 4 | <i>RASSF4</i> | 83937 |
| 49306_at | Ras association (RalGDS/AF-6) domain family 4 | <i>RASSF4</i> | 83937 |
| 1554834_a_at | Ras association (RalGDS/AF-6) domain family 5 | <i>RASSF5</i> | 83593 |
| 235638_at | Ras association (RalGDS/AF-6) domain family 6 | <i>RASSF6</i> | 166824 |
| 40359_at | Ras association (RalGDS/AF-6) domain family 7 | <i>RASSF7</i> | 8045 |
| 204927_at | Ras association (RalGDS/AF-6) domain family 7 | <i>RASSF7</i> | 8045 |
| 211540_s_at | retinoblastoma 1 (including osteosarcoma) | <i>RB1</i> | 5925 |
| 202033_s_at | RB1-inducible coiled-coil 1 | <i>RB1CC1</i> | 9821 |
| 1552329_at | retinoblastoma binding protein 6 | <i>RBBP6</i> | 5930 |
| 223802_s_at | retinoblastoma binding protein 6 | <i>RBBP6</i> | 5930 |
| 201092_at | retinoblastoma binding protein 7 | <i>RBBP7</i> | 5931 |
| 203344_s_at | retinoblastoma binding protein 8 | <i>RBBP8</i> | 5932 |
| 227859_at | rab and Dnal domain containing | <i>RBJ</i> | 51277 |

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| 219222_at | ribokinase | <i>RBKS</i> | 64080 |
| 57540_at | ribokinase | <i>RBKS</i> | 64080 |
| 217221_x_at | RNA binding motif protein 10 | <i>RBM10</i> | 8241 |
| 208984_x_at | RNA binding motif protein 10 | <i>RBM10</i> | 8241 |
| 215089_s_at | RNA binding motif protein 10 | <i>RBM10</i> | 8241 |
| 211686_s_at | RNA binding motif protein 13 | <i>RBM13</i> | 84549 |
| 228455_at | RNA binding motif protein 15 | <i>RBM15</i> | 64783 |
| 1555762_s_at | RNA binding motif protein 15 | <i>RBM15</i> | 64783 |
| 219286_s_at | RNA binding motif protein 15 | <i>RBM15</i> | 64783 |
| 226987_at | RNA binding motif protein 15B | <i>RBM15B</i> | 29890 |
| 224780_at | RNA binding motif protein 17 | <i>RBM17</i> | 84991 |
| 225236_at | RNA binding motif protein 18 | <i>RBM18</i> | 92400 |
| 224068_x_at | RNA binding motif protein 22 | <i>RBM22</i> | 55696 |
| 219816_s_at | RNA binding motif protein 23 | <i>RBM23</i> | 55147 |
| 235004_at | RNA binding motif protein 24 | <i>RBM24</i> | 221662 |
| 1557081_at | RNA binding motif protein 25 | <i>RBM25</i> | 58517 |
| 212031_at | RNA binding motif protein 25 | <i>RBM25</i> | 58517 |
| 218422_s_at | RNA binding motif protein 26 | <i>RBM26</i> | 64062 |
| 238801_at | RNA binding motif protein 33 | <i>RBM33</i> | 155435 |
| 225141_at | RNA binding motif protein 35B | <i>RBM35B</i> | --- |
| 225139_at | RNA binding motif protein 35B | <i>RBM35B</i> | --- |
| 225137_at | RNA binding motif protein 35B | <i>RBM35B</i> | --- |
| 238355_at | RNA binding motif protein 39 | <i>RBM39</i> | 9584 |
| 238357_at | RNA binding motif protein 39 | <i>RBM39</i> | 9584 |
| 243038_at | RNA binding motif protein 43 | <i>RBM43</i> | 375287 |
| 201394_s_at | RNA binding motif protein 5 | <i>RBM5</i> | 10181 |
| 1556672_a_at | RNA binding motif protein 6 | <i>RBM6</i> | 10180 |
| 218379_at | RNA binding motif protein 7 | <i>RBM7</i> | 10179 |
| 222443_s_at | RNA binding motif protein 8A | <i>RBM8A</i> | 9939 |
| 1554602_at | RNA binding motif protein 8A | <i>RBM8A</i> | 9939 |
| 217857_s_at | RNA binding motif protein 8A | <i>RBM8A</i> | 9939 |
| 238447_at | RNA binding motif, single stranded interacting protein | <i>RBMS3</i> | 27303 |
| 225310_at | RNA binding motif protein, X-linked | <i>RBMX</i> | 27316 |
| 213762_x_at | RNA binding motif protein, X-linked | <i>RBMX</i> | 27316 |
| 238066_at | retinol binding protein 7, cellular | <i>RBP7</i> | 116362 |
| 211974_x_at | recombination signal binding protein for immunoglobulin kappa J region | <i>RBPJ</i> | 3516 |
| 207785_s_at | recombination signal binding protein for immunoglobulin kappa J region | <i>RBPJ</i> | 3516 |
| 238421_at | Ring finger and CCCH-type zinc finger domains 2 | <i>RC3H2</i> | 54542 |
| 220202_s_at | ring finger and CCCH-type zinc finger domains 2 | <i>RC3H2</i> | 54542 |
| 231716_at | ring finger and CCCH-type zinc finger domains 2 | <i>RC3H2</i> | 54542 |
| 230134_s_at | ring finger and CCCH-type zinc finger domains 2 | <i>RC3H2</i> | 54542 |
| 208370_s_at | regulator of calcineurin 1 | <i>RCAN1</i> | 1827 |
| 226272_at | RCAN family member 3 | <i>RCAN3</i> | 11123 |
| 224578_at | regulator of chromosome condensation 2 | <i>RCC2</i> | 55920 |
| 205333_s_at | RCE1 homolog, prenyl protein peptidase (<i>S. cerevisiae</i>) | <i>RCE1</i> | 9986 |
| 201063_at | reticulocalbin 1, EF-hand calcium binding domain | <i>RCN1</i> | 5954 |
| 201486_at | reticulocalbin 2, EF-hand calcium binding domain | <i>RCN2</i> | 5955 |
| 201485_s_at | reticulocalbin 2, EF-hand calcium binding domain | <i>RCN2</i> | 5955 |
| 212612_at | REST corepressor 1 | <i>RCOR1</i> | 23186 |
| 209219_at | RD RNA binding protein | <i>RDBP</i> | 7936 |
| 227467_at | retinol dehydrogenase 10 (all-trans) | <i>RDH10</i> | 157506 |
| 217042_at | retinol dehydrogenase 11 (all-trans/9-cis/11-cis) | <i>RDH11</i> | 51109 |
| 222203_s_at | retinol dehydrogenase 14 (all-trans/9-cis/11-cis) | <i>RDH14</i> | 57665 /// 9: |
| 212398_at | radixin | <i>RDX</i> | 5962 |
| 212397_at | radixin | <i>RDX</i> | 5962 |
| 204969_s_at | radixin | <i>RDX</i> | 5962 |
| 216153_x_at | reversion-inducing-cysteine-rich protein with kazal motifs | <i>RECK</i> | 8434 |
| 212917_x_at | RecQ protein-like (DNA helicase Q1-like) | <i>RECQL</i> | 5965 |
| 205091_x_at | RecQ protein-like (DNA helicase Q1-like) | <i>RECQL</i> | 5965 |
| 212918_at | RecQ protein-like (DNA helicase Q1-like) | <i>RECQL</i> | 5965 |
| 210568_s_at | RecQ protein-like (DNA helicase Q1-like) | <i>RECQL</i> | 5965 |
| 34063_at | RecQ protein-like 5 | <i>RECQL5</i> | 9400 |
| 221686_s_at | RecQ protein-like 5 | <i>RECQL5</i> | 9400 |

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|--------------|---|------------------------|--------|
| 225785_at | receptor accessory protein 3 | <i>REEP3</i> | 221035 |
| 208873_s_at | receptor accessory protein 5 | <i>REEP5</i> | 7905 |
| 208872_s_at | receptor accessory protein 5 | <i>REEP5</i> | 7905 |
| 206036_s_at | v-rel reticuloendotheliosis viral oncogene homolog (avian) | <i>REL</i> | 5966 |
| 206035_at | v-rel reticuloendotheliosis viral oncogene homolog (avian) | <i>REL</i> | 5966 |
| 209878_s_at | v-rel reticuloendotheliosis viral oncogene homolog A, nuclear factor of kappa lig | <i>RELA</i> | 5970 |
| 201783_s_at | v-rel reticuloendotheliosis viral oncogene homolog A, nuclear factor of kappa lig | <i>RELA</i> | 5970 |
| 205923_at | reelin | <i>RELN</i> | 5649 |
| 227060_at | RELT tumor necrosis factor receptor | <i>RELT</i> | 84957 |
| 206617_s_at | renin binding protein | <i>RENBP</i> | 5973 |
| 219041_s_at | replication initiator 1 | <i>REPIN1</i> | 29803 |
| 224366_s_at | RALBP1 associated Eps domain containing 1 | <i>REPS1</i> | 85021 |
| 205645_at | RALBP1 associated Eps domain containing 2 | <i>REPS2</i> | 9185 |
| 202296_s_at | RER1 retention in endoplasmic reticulum 1 homolog (S. cerevisiae) | <i>RER1</i> | 11079 |
| 202297_s_at | RER1 retention in endoplasmic reticulum 1 homolog (S. cerevisiae) | <i>RER1</i> | 11079 |
| 221643_s_at | arginine-glutamic acid dipeptide (RE) repeats | <i>RERE</i> | 473 |
| 200940_s_at | arginine-glutamic acid dipeptide (RE) repeats | <i>RERE</i> | 473 |
| 200939_s_at | arginine-glutamic acid dipeptide (RE) repeats | <i>RERE</i> | 473 |
| 1566472_s_at | retinol saturase (all-trans-retinol 13,14-reductase) | <i>RETSAT</i> | 54884 |
| 218194_at | REX2, RNA exonuclease 2 homolog (S. cerevisiae) | <i>REXO2</i> | 25996 |
| 208021_s_at | replication factor C (activator 1) 1, 145kDa | <i>RFC1</i> | 5981 |
| 1053_at | replication factor C (activator 1) 2, 40kDa | <i>RFC2</i> | 5982 |
| 203696_s_at | replication factor C (activator 1) 2, 40kDa | <i>RFC2</i> | 5982 |
| 204127_at | replication factor C (activator 1) 3, 38kDa | <i>RFC3</i> | 5983 |
| 204128_s_at | replication factor C (activator 1) 3, 38kDa | <i>RFC3</i> | 5983 |
| 204023_at | replication factor C (activator 1) 4, 37kDa | <i>RFC4</i> | 5984 |
| 228980_at | ring finger and FYVE-like domain containing 1 | <i>RFFL</i> | 117584 |
| 207936_x_at | ret finger protein-like 3 /// ret finger protein-like 2 | <i>RFPL2 /// RFPL3</i> | 10738 |
| 234950_s_at | ring finger and WD repeat domain 2 | <i>RFWD2</i> | 64326 |
| 226872_at | regulatory factor X, 2 (influences HLA class II expression) | <i>RFX2</i> | 5990 |
| 230403_at | regulatory factor X, 3 (influences HLA class II expression) | <i>RFX3</i> | --- |
| 229431_at | regulatory factor X-associated protein | <i>RFXAP</i> | 5994 |
| 222630_at | regulatory factor X domain containing 2 | <i>RFXDC2</i> | 64864 |
| 218430_s_at | regulatory factor X domain containing 2 | <i>RFXDC2</i> | 64864 |
| 223267_at | RNA (guanine-9-) methyltransferase domain containing 1 | <i>RG9MTD1</i> | 54931 |
| 230243_at | RNA (guanine-9-) methyltransferase domain containing 2 | <i>RG9MTD2</i> | 93587 |
| 240166_x_at | RNA (guanine-9-) methyltransferase domain containing 3 | <i>RG9MTD3</i> | 158234 |
| 1554003_at | Rho-guanine nucleotide exchange factor | <i>RGNEF</i> | 64283 |
| 216834_at | regulator of G-protein signaling 1 | <i>RGS1</i> | 5996 |
| 204316_at | regulator of G-protein signaling 10 | <i>RGS10</i> | 6001 |
| 209638_x_at | regulator of G-protein signaling 12 | <i>RGS12</i> | 6002 |
| 210258_at | regulator of G-protein signaling 13 | <i>RGS13</i> | 6003 |
| 220334_at | regulator of G-protein signaling 17 | <i>RGS17</i> | 26575 |
| 218353_at | regulator of G-protein signaling 5 | <i>RGSS5</i> | 8490 |
| 230678_at | Regulator of G-protein signalling 5 | <i>RGSS5</i> | 8490 |
| 206145_at | Rh-associated glycoprotein | <i>RHAG</i> | 6005 |
| 233164_x_at | rhomboid domain containing 1 | <i>RHBDD1</i> | 84236 |
| 217622_at | rhomboid domain containing 3 | <i>RHBDD3</i> | 25807 |
| 219202_at | rhomboid 5 homolog 2 (Drosophila) | <i>RHBDF2</i> | 79651 |
| 201453_x_at | Ras homolog enriched in brain | <i>RHEB</i> | 6009 |
| 213404_s_at | Ras homolog enriched in brain | <i>RHEB</i> | 6009 |
| 1555780_a_at | Ras homolog enriched in brain | <i>RHEB</i> | 6009 |
| 213409_s_at | Ras homolog enriched in brain | <i>RHEB</i> | 6009 |
| 200059_s_at | ras homolog gene family, member A | <i>RHOA</i> | 387 |
| 1555814_a_at | ras homolog gene family, member A | <i>RHOA</i> | 387 |
| 212099_at | ras homolog gene family, member B | <i>RHOB</i> | 388 |
| 240111_at | Rho-related BTB domain containing 3 | <i>RHOBTB3</i> | 22836 |
| 216049_at | Rho-related BTB domain containing 3 | <i>RHOBTB3</i> | 22836 |
| 225202_at | Rho-related BTB domain containing 3 | <i>RHOBTB3</i> | 22836 |
| 202975_s_at | Rho-related BTB domain containing 3 | <i>RHOBTB3</i> | 22836 |
| 1554539_a_at | ras homolog gene family, member F (in filopodia) | <i>RHOF</i> | 54509 |
| 203175_at | ras homolog gene family, member G (rho G) | <i>RHOG</i> | 391 |
| 214449_s_at | ras homolog gene family, member Q | <i>RHOQ</i> | 23433 |

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|-------------|--|-----------------|--------------|
| 218323_at | ras homolog gene family, member T1 | <i>RHOT1</i> | 55288 |
| 221789_x_at | ras homolog gene family, member T2 | <i>RHOT2</i> | 89941 |
| 65770_at | ras homolog gene family, member T2 | <i>RHOT2</i> | 89941 |
| 223168_at | ras homolog gene family, member U | <i>RHOU</i> | 58480 |
| 215232_at | Rho-type GTPase-activating protein RICH2 | <i>RICH2</i> | 9912 |
| 226312_at | rapamycin-insensitive companion of mTOR | <i>RICTOR</i> | 253260 |
| 226310_at | rapamycin-insensitive companion of mTOR | <i>RICTOR</i> | 253260 |
| 233781_s_at | RAP1 interacting factor homolog (yeast) | <i>RIF1</i> | 55183 |
| 233780_at | RAP1 interacting factor homolog (yeast) | <i>RIF1</i> | 55183 |
| 214700_x_at | RAP1 interacting factor homolog (yeast) | <i>RIF1</i> | 55183 |
| 241820_at | RAP1 interacting factor homolog (yeast) | <i>RIF1</i> | 55183 |
| 227366_at | Rab interacting lysosomal protein | <i>RILP</i> | 83547 |
| 215478_at | regulating synaptic membrane exocytosis 2 | <i>RIMS2</i> | 9699 |
| 218598_at | RAD50 interactor 1 | <i>RINT1</i> | 60561 |
| 202130_at | RIO kinase 3 (yeast) | <i>RIOK3</i> | 8780 |
| 202131_s_at | RIO kinase 3 (yeast) | <i>RIOK3</i> | 8780 |
| 202129_s_at | RIO kinase 3 (yeast) | <i>RIOK3</i> | 8780 |
| 209545_s_at | receptor-interacting serine-threonine kinase 2 | <i>RIPK2</i> | 8767 |
| 214663_at | receptor interacting protein kinase 5 | <i>RIPK5</i> | 25778 |
| 229017_s_at | receptor interacting protein kinase 5 | <i>RIPK5</i> | 25778 |
| 211515_s_at | receptor interacting protein kinase 5 | <i>RIPK5</i> | 25778 |
| 243463_s_at | Ras-like without CAAX 1 | <i>RIT1</i> | 6016 |
| 209882_at | Ras-like without CAAX 1 | <i>RIT1</i> | 6016 |
| 204243_at | rearranged L-myc fusion | <i>RLF</i> | 6018 |
| 211753_s_at | relaxin 1 | <i>RLN1</i> | 6013 |
| 214519_s_at | relaxin 2 | <i>RLN2</i> | 6013 /// 601 |
| 218979_at | RMI1, RecQ mediated genome instability 1, homolog (S. cerevisiae) | <i>RMI1</i> | 80010 |
| 212482_at | required for meiotic nuclear division 5 homolog A (S. cerevisiae) | <i>RMND5A</i> | 64795 |
| 212478_at | required for meiotic nuclear division 5 homolog A (S. cerevisiae) | <i>RMND5A</i> | 64795 |
| 212479_s_at | required for meiotic nuclear division 5 homolog A (S. cerevisiae) | <i>RMND5A</i> | 64795 |
| 1562633_at | rhabdomyosarcoma 2 associated transcript (non-coding RNA) | <i>RMST</i> | 196475 |
| 206111_at | ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin) | <i>RNASE2</i> | 100133484 , |
| 206851_at | ribonuclease, RNase A family, 3 (eosinophil cationic protein) | <i>RNASE3</i> | 6037 |
| 213566_at | ribonuclease, RNase A family, k6 | <i>RNASE6</i> | 6039 |
| 218496_at | ribonuclease H1 | <i>RNASEH1</i> | 246243 |
| 203022_at | ribonuclease H2, subunit A | <i>RNASEH2A</i> | 10535 |
| 215040_at | Ribonuclease H2, subunit B | <i>RNASEH2B</i> | 79621 |
| 219056_at | ribonuclease H2, subunit B | <i>RNASEH2B</i> | 79621 |
| 229285_at | ribonuclease L (2',5'-oligoadenylate synthetase-dependent) | <i>RNASEL</i> | 6041 |
| 218269_at | ribonuclease III, nuclear | <i>RNASEN</i> | 29102 |
| 1556201_at | ribonuclease T2 | <i>RNASET2</i> | 8635 |
| 207801_s_at | ring finger protein 10 | <i>RNF10</i> | 9921 |
| 202636_at | ring finger protein 103 | <i>RNF103</i> | 7844 |
| 208924_at | ring finger protein 11 | <i>RNF11</i> | 26994 |
| 218761_at | ring finger protein 111 | <i>RNF111</i> | 54778 |
| 224186_s_at | ring finger protein 123 | <i>RNF123</i> | 63891 |
| 235199_at | ring finger protein 125 | <i>RNF125</i> | 54941 |
| 207735_at | ring finger protein 125 | <i>RNF125</i> | 54941 |
| 201780_s_at | ring finger protein 13 | <i>RNF13</i> | 11342 |
| 201779_s_at | ring finger protein 13 | <i>RNF13</i> | 11342 |
| 236292_at | Ring finger protein 130 | <i>RNF130</i> | 55819 |
| 217865_at | ring finger protein 130 | <i>RNF130</i> | 55819 |
| 223592_s_at | ring finger protein 135 | <i>RNF135</i> | 84282 |
| 223591_at | ring finger protein 135 | <i>RNF135</i> | 84282 |
| 209510_at | ring finger protein 139 | <i>RNF139</i> | 11236 |
| 1565544_at | ring finger protein 141 | <i>RNF141</i> | 50862 |
| 204040_at | ring finger protein 144A | <i>RNF144A</i> | 9781 |
| 235549_at | ring finger 144B | <i>RNF144B</i> | 255488 |
| 239704_at | ring finger 144B | <i>RNF144B</i> | 255488 |
| 226077_at | ring finger protein 145 | <i>RNF145</i> | 153830 |
| 227726_at | ring finger protein 166 | <i>RNF166</i> | 115992 |
| 226104_at | ring finger protein 170 | <i>RNF170</i> | 81790 |
| 242985_x_at | ring finger protein 180 | <i>RNF180</i> | 285671 |

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| 242033_at | ring finger protein 180 | <i>RNF180</i> | 285671 |
| 223064_at | ring finger protein 181 | <i>RNF181</i> | 51255 |
| 230720_at | ring finger protein 182 | <i>RNF182</i> | 221687 |
| 212155_at | ring finger protein 187 | <i>RNF187</i> | 149603 |
| 223085_at | ring finger protein 19A | <i>RNF19A</i> | 25897 |
| 220483_s_at | ring finger protein 19A | <i>RNF19A</i> | 25897 |
| 225929_s_at | ring finger protein 213 | <i>RNF213</i> | 57674 |
| 225931_s_at | ring finger protein 213 | <i>RNF213</i> | 57674 |
| 230000_at | ring finger protein 213 | <i>RNF213</i> | 57674 |
| 204669_s_at | ring finger protein 24 | <i>RNF24</i> | 11237 |
| 206845_s_at | ring finger protein 40 | <i>RNF40</i> | 9810 |
| 201961_s_at | ring finger protein 41 | <i>RNF41</i> | 10193 |
| 201962_s_at | ring finger protein 41 | <i>RNF41</i> | 10193 |
| 203286_at | ring finger protein 44 | <i>RNF44</i> | 22838 |
| 209111_at | ring finger protein 5 | <i>RNF5</i> | 6048 |
| 210931_at | ring finger protein (C3H2C3 type) 6 | <i>RNF6</i> | 6049 |
| 1555529_at | ribonuclease/angiogenin inhibitor 1 | <i>RNH1</i> | 6050 |
| 202683_s_at | RNA (guanine-7-) methyltransferase | <i>RNMT</i> | 8731 |
| 202684_s_at | RNA (guanine-7-) methyltransferase | <i>RNMT</i> | 8731 |
| 229903_x_at | RNA-binding region (RNP1, RRM) containing 3 | <i>RNPC3</i> | 55599 |
| 226975_at | RNA-binding region (RNP1, RRM) containing 3 | <i>RNPC3</i> | 55599 |
| 231812_x_at | RNA U, small nuclear RNA export adaptor (phosphorylation regulated) | <i>RNUXA</i> | 51808 |
| 234405_s_at | RNA U, small nuclear RNA export adaptor (phosphorylation regulated) | <i>RNUXA</i> | 51808 |
| 213194_at | roundabout, axon guidance receptor, homolog 1 (Drosophila) | <i>ROBO1</i> | 6091 |
| 220758_s_at | roundabout homolog 4, magic roundabout (Drosophila) | <i>ROBO4</i> | 54538 |
| 211504_x_at | Rho-associated, coiled-coil containing protein kinase 2 | <i>ROCK2</i> | 9475 |
| 202762_at | Rho-associated, coiled-coil containing protein kinase 2 | <i>ROCK2</i> | 9475 |
| 207223_s_at | ROD1 regulator of differentiation 1 (S. pombe) | <i>ROD1</i> | 9991 |
| 224617_at | ROD1 regulator of differentiation 1 (S. pombe) | <i>ROD1</i> | 9991 |
| 214697_s_at | ROD1 regulator of differentiation 1 (S. pombe) | <i>ROD1</i> | 9991 |
| 214698_at | ROD1 regulator of differentiation 1 (S. pombe) | <i>ROD1</i> | 9991 |
| 212946_at | KIAA0564 protein | <i>RP11-125A7.3</i> | 23078 |
| 214231_s_at | KIAA0564 protein | <i>RP11-125A7.3</i> | 23078 |
| 220436_at | similar to cell recognition molecule CASPR3 | <i>RP11-138L21.1</i> | 389722 |
| 1559884_at | antisense noncoding RNA in the INK4 locus | <i>RP11-145E5.4</i> | 100048912 |
| 1556222_at | similar to cell division cycle 10 | <i>RP11-291L22.2</i> | 285961 |
| 1570250_at | plasticity related gene 3 | <i>RP11-35N6.1</i> | 54886 |
| 1555554_at | breast cancer and salivary gland expression gene | <i>RP11-49G10.8</i> | 317716 |
| 227040_at | similar to RIKEN cDNA 8030451K01 | <i>RP11-50D16.3</i> | 387921 |
| 236953_s_at | similar to RIKEN cDNA 8030451K01 | <i>RP11-50D16.3</i> | 387921 |
| 1553428_at | hypothetical protein FLJ33708 | <i>RP3-398D13.1</i> | 285780 |
| 207705_s_at | KIAA0980 protein | <i>RP4-691N24.1</i> | 22981 |
| 230897_at | hypothetical protein LOC728621 | <i>RP4-692D3.1</i> | 728621 |
| 215861_at | hypothetical protein FLJ14031 | <i>RP4-724E16.2</i> | 80089 |
| 224826_at | hypothetical protein KIAA1434 | <i>RP5-1022P6.2</i> | 56261 |
| 230492_s_at | hypothetical protein KIAA1434 | <i>RP5-1022P6.2</i> | 56261 |
| 48659_at | invasion inhibitory protein 45 | <i>RP5-1077B9.4</i> | 60672 |
| 224407_s_at | serine/threonine protein kinase MST4 | <i>RP6-213H19.1</i> | 51765 |
| 201528_at | replication protein A1, 70kDa | <i>RPA1</i> | 6117 |
| 201529_s_at | replication protein A1, 70kDa | <i>RPA1</i> | 6117 |
| 222893_s_at | RNA polymerase II associated protein 2 | <i>RPAP2</i> | 79871 |
| 1557984_s_at | RNA polymerase II associated protein 3 | <i>RPAP3</i> | 79657 |
| 218842_at | RNA polymerase II associated protein 3 | <i>RPAP3</i> | 79657 |
| 235209_at | RPE-spondin | <i>RPESP</i> | 157869 |
| 207624_s_at | retinitis pigmentosa GTPase regulator | <i>RPGR</i> | 6103 |
| 206608_s_at | retinitis pigmentosa GTPase regulator interacting protein 1 | <i>RPGRIP1</i> | 57096 |
| 213959_s_at | RPGRIP1-like | <i>RPGRIP1L</i> | 23322 |
| 212973_at | ribose 5-phosphate isomerase A (ribose 5-phosphate epimerase) | <i>RPIA</i> | 22934 |
| 215321_at | Rap2-binding protein 9 | <i>RPIB9</i> | 154661 |
| 221989_at | ribosomal protein L10 | <i>RPL10</i> | 6134 |
| 229563_s_at | ribosomal protein L10a | <i>RPL10A</i> | 100128936 |
| 200036_s_at | ribosomal protein L10a | <i>RPL10A</i> | 4736 |
| 208929_x_at | ribosomal protein L13 | <i>RPL13</i> | 6137 |

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| 212734_x_at | ribosomal protein L13 | <i>RPL13</i> | 6137 |
| 221476_s_at | ribosomal protein L15 | <i>RPL15</i> | 6138 |
| 214042_s_at | ribosomal protein L22 | <i>RPL22</i> | 6146 |
| 221726_at | ribosomal protein L22 | <i>RPL22</i> | 6146 |
| 221775_x_at | ribosomal protein L22 | <i>RPL22</i> | 6146 |
| 220960_x_at | ribosomal protein L22 | <i>RPL22</i> | 6146 |
| 225541_at | ribosomal protein L22-like 1 | <i>RPL22L1</i> | 200916 |
| 215224_at | ribosomal protein L23 | <i>RPL23</i> | 619505 /// 5 |
| 212044_s_at | Ribosomal protein L27a | <i>RPL27A</i> | 6157 |
| 200962_at | ribosomal protein L31 | <i>RPL31</i> | 6160 |
| 215208_x_at | Ribosomal protein L35a | <i>RPL35A</i> | 6165 |
| 207585_s_at | ribosomal protein L36a-like | <i>RPL36AL</i> | 6166 |
| 224763_at | Ribosomal protein L37 | <i>RPL37</i> | 6167 |
| 214041_x_at | Ribosomal protein L37a | <i>RPL37A</i> | 6168 |
| 221943_x_at | Ribosomal protein L38 | <i>RPL38</i> | 6169 |
| 200089_s_at | ribosomal protein L4 | <i>RPL4</i> | 6124 |
| 201154_x_at | ribosomal protein L4 | <i>RPL4</i> | 6124 |
| 211710_x_at | ribosomal protein L4 | <i>RPL4</i> | 6124 |
| 200937_s_at | ribosomal protein L5 | <i>RPL5</i> | 6125 |
| 224738_x_at | ribosomal protein L7-like 1 | <i>RPL7L1</i> | 285855 |
| 213350_at | Ribosomal protein S11 | <i>RPS11</i> | 6205 |
| 213377_x_at | ribosomal protein S12 | <i>RPS12</i> | 6206 |
| 201665_x_at | ribosomal protein S17 | <i>RPS17</i> | 6218 |
| 212578_x_at | ribosomal protein S17 | <i>RPS17</i> | 6218 |
| 211487_x_at | ribosomal protein S17 | <i>RPS17</i> | 6218 |
| 200949_x_at | ribosomal protein S20 | <i>RPS20</i> | 6224 |
| 200926_at | ribosomal protein S23 | <i>RPS23</i> | 6228 |
| 1555878_at | Ribosomal protein S24 | <i>RPS24</i> | 6229 |
| 200933_x_at | ribosomal protein S4, X-linked | <i>RPS4X</i> | 6191 |
| 213347_x_at | ribosomal protein S4, X-linked | <i>RPS4X</i> | 6191 |
| 203379_at | ribosomal protein S6 kinase, 90kDa, polypeptide 1 | <i>RPS6KA1</i> | 6195 |
| 204635_at | ribosomal protein S6 kinase, 90kDa, polypeptide 5 | <i>RPS6KA5</i> | 9252 |
| 204633_s_at | ribosomal protein S6 kinase, 90kDa, polypeptide 5 | <i>RPS6KA5</i> | 9252 |
| 1554319_at | ribosomal protein S6 kinase, 90kDa, polypeptide 5 | <i>RPS6KA5</i> | 9252 |
| 1553454_at | repetin | <i>RPTN</i> | 126638 |
| 201628_s_at | Ras-related GTP binding A | <i>RRAGA</i> | 10670 |
| 218088_s_at | Ras-related GTP binding C | <i>RRAGC</i> | 64121 |
| 222514_at | Ras-related GTP binding C | <i>RRAGC</i> | 64121 |
| 221523_s_at | Ras-related GTP binding D | <i>RRAGD</i> | 58528 |
| 221524_s_at | Ras-related GTP binding D | <i>RRAGD</i> | 58528 |
| 212590_at | related RAS viral (r-ras) oncogene homolog 2 | <i>RRAS2</i> | 22800 |
| 212589_at | related RAS viral (r-ras) oncogene homolog 2 | <i>RRAS2</i> | 22800 |
| 228487_s_at | Ras responsive element binding protein 1 | <i>RREB1</i> | 6239 |
| 242297_at | ras responsive element binding protein 1 | <i>RREB1</i> | 6239 |
| 201476_s_at | ribonucleotide reductase M1 polypeptide | <i>RRM1</i> | 6240 |
| 201477_s_at | ribonucleotide reductase M1 polypeptide | <i>RRM1</i> | 6240 |
| 201890_at | ribonucleotide reductase M2 polypeptide | <i>RRM2</i> | 6241 |
| 209773_s_at | ribonucleotide reductase M2 polypeptide | <i>RRM2</i> | 6241 |
| 1559126_at | ribosomal RNA processing 12 homolog (S. cerevisiae) | <i>RRP12</i> | 23223 |
| 219037_at | ribosomal RNA processing 15 homolog (S. cerevisiae) | <i>RRP15</i> | 51018 |
| 212846_at | ribosomal RNA processing 1 homolog B (S. cerevisiae) | <i>RRP1B</i> | 23076 |
| 242625_at | radical S-adenosyl methionine domain containing 2 | <i>RSAD2</i> | 91543 |
| 213797_at | radical S-adenosyl methionine domain containing 2 | <i>RSAD2</i> | 91543 |
| 222791_at | round spermatid basic protein 1 | <i>RSBN1</i> | 54665 |
| 232221_x_at | round spermatid basic protein 1-like | <i>RSBN1L</i> | 222194 |
| 226387_at | round spermatid basic protein 1-like | <i>RSBN1L</i> | 222194 |
| 218166_s_at | remodeling and spacing factor 1 | <i>RSF1</i> | 51773 |
| 219507_at | arginine/serine-rich coiled-coil 1 | <i>RSRC1</i> | 51319 |
| 202302_s_at | arginine/serine-rich coiled-coil 2 | <i>RSRC2</i> | 65117 |
| 230490_x_at | Ras suppressor protein 1 | <i>RSU1</i> | 6251 |
| 201980_s_at | Ras suppressor protein 1 | <i>RSU1</i> | 6251 |
| 212301_at | Rtf1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae) | <i>RTF1</i> | 23168 |
| 230832_at | Rtf1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae) | <i>RTF1</i> | 23168 |

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| 203485_at | reticulon 1 | <i>RTN1</i> | 6252 |
| 224564_s_at | reticulon 3 | <i>RTN3</i> | 10313 |
| 219684_at | receptor (chemosensory) transporter protein 4 | <i>RTP4</i> | 64108 |
| 1553277_at | rotatin | <i>RTTN</i> | 25914 |
| 1557388_at | rotatin | <i>RTTN</i> | 25914 |
| 233191_at | RUN and FYVE domain containing 2 | <i>RUFY2</i> | 55680 |
| 226298_at | RUN domain containing 1 | <i>RUNDC1</i> | 146923 |
| 235040_at | RUN domain containing 1 | <i>RUNDC1</i> | 146923 |
| 1564642_at | runt-related transcription factor 1; translocated to, 1 (cyclin D-related) | <i>RUNX1T1</i> | 862 |
| 232231_at | runt-related transcription factor 2 | <i>RUNX2</i> | 860 |
| 204198_s_at | runt-related transcription factor 3 | <i>RUNX3</i> | 864 |
| 205087_at | RWD domain containing 3 | <i>RWDD3</i> | 25950 |
| 225574_at | RWD domain containing 4A | <i>RWDD4A</i> | 201965 |
| 202426_s_at | retinoid X receptor, alpha | <i>RXRA</i> | 6256 |
| 201845_s_at | RING1 and YY1 binding protein | <i>RYBP</i> | 23429 |
| 201844_s_at | RING1 and YY1 binding protein | <i>RYBP</i> | 23429 |
| 201846_s_at | RING1 and YY1 binding protein | <i>RYBP</i> | 23429 |
| 206306_at | ryanodine receptor 3 | <i>RYR3</i> | 6263 |
| 200660_at | S100 calcium binding protein A11 | <i>S100A11</i> | 6282 |
| 205863_at | S100 calcium binding protein A12 | <i>S100A12</i> | 6283 |
| 203186_s_at | S100 calcium binding protein A4 | <i>S100A4</i> | 6275 |
| 217728_at | S100 calcium binding protein A6 | <i>S100A6</i> | 6277 |
| 232170_at | S100 calcium binding protein A7A | <i>S100A7A</i> | 338324 |
| 214370_at | S100 calcium binding protein A8 | <i>S100A8</i> | 6279 |
| 202917_s_at | S100 calcium binding protein A8 | <i>S100A8</i> | 6279 |
| 203535_at | S100 calcium binding protein A9 | <i>S100A9</i> | 6280 |
| 218370_s_at | S100P binding protein | <i>S100PBP</i> | 64766 |
| 1554876_a_at | S100 calcium binding protein Z | <i>S100Z</i> | 170591 |
| 207096_at | serum amyloid A4, constitutive | <i>SAA4</i> | 6291 |
| 213262_at | spastic ataxia of Charlevoix-Saguenay (sacsin) | <i>SACS</i> | 26278 |
| 217946_s_at | SUMO1 activating enzyme subunit 1 | <i>SAE1</i> | 10055 |
| 1555618_s_at | SUMO1 activating enzyme subunit 1 | <i>SAE1</i> | 10055 |
| 201177_s_at | SUMO1 activating enzyme subunit 2 | <i>SAE2</i> | 10054 |
| 229587_at | SUMO1 activating enzyme subunit 2 | <i>SAE2</i> | 10054 |
| 201747_s_at | scaffold attachment factor B | <i>SAFB</i> | 6294 |
| 229402_at | sterile alpha motif domain containing 13 | <i>SAMD13</i> | 148418 |
| 236782_at | sterile alpha motif domain containing 3 | <i>SAMD3</i> | 154075 |
| 229871_at | sterile alpha motif domain containing 4B | <i>SAMD4B</i> | 55095 |
| 226714_at | sterile alpha motif domain containing 4B | <i>SAMD4B</i> | 55095 |
| 220457_at | sterile alpha motif domain containing 4B | <i>SAMD4B</i> | 55095 |
| 228531_at | sterile alpha motif domain containing 9 | <i>SAMD9</i> | 54809 |
| 219691_at | sterile alpha motif domain containing 9 | <i>SAMD9</i> | 54809 |
| 226603_at | sterile alpha motif domain containing 9-like | <i>SAMD9L</i> | 219285 |
| 230036_at | sterile alpha motif domain containing 9-like | <i>SAMD9L</i> | 219285 |
| 235643_at | sterile alpha motif domain containing 9-like | <i>SAMD9L</i> | 219285 |
| 204502_at | SAM domain and HD domain 1 | <i>SAMHD1</i> | 25939 |
| 1559883_s_at | SAM domain and HD domain 1 | <i>SAMHD1</i> | 25939 |
| 201570_at | sorting and assembly machinery component 50 homolog (<i>S. cerevisiae</i>) | <i>SAMM50</i> | 25813 |
| 220330_s_at | SAM domain, SH3 domain and nuclear localization signals 1 | <i>SAMSN1</i> | 64092 |
| 1555638_a_at | SAM domain, SH3 domain and nuclear localization signals 1 | <i>SAMSN1</i> | 64092 |
| 220367_s_at | Sin3A-associated protein, 130kDa | <i>SAP130</i> | 79595 |
| 208742_s_at | Sin3A-associated protein, 18kDa | <i>SAP18</i> | 10284 |
| 204900_x_at | Sin3A-associated protein, 30kDa | <i>SAP30</i> | 8819 |
| 204899_s_at | Sin3A-associated protein, 30kDa | <i>SAP30</i> | 8819 |
| 222467_s_at | SAPS domain family, member 3 | <i>SAPS3</i> | 55291 |
| 201542_at | SAR1 gene homolog A (<i>S. cerevisiae</i>) | <i>SAR1A</i> | 56681 |
| 201543_s_at | SAR1 gene homolog A (<i>S. cerevisiae</i>) | <i>SAR1A</i> | 56681 |
| 210790_s_at | SAR1 gene homolog A (<i>S. cerevisiae</i>) | <i>SAR1A</i> | 56681 |
| 1554482_a_at | SAR1 gene homolog B (<i>S. cerevisiae</i>) | <i>SAR1B</i> | 51128 |
| 218254_s_at | SAR1 gene homolog B (<i>S. cerevisiae</i>) | <i>SAR1B</i> | 51128 |
| 223512_at | SAR1 gene homolog B (<i>S. cerevisiae</i>) | <i>SAR1B</i> | 51128 |
| 200802_at | seryl-tRNA synthetase | <i>SARS</i> | 6301 |
| 209486_at | disrupter of silencing 10 | <i>SAS10</i> | 57050 |

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|--------------|--|----------|--------|
| 210592_s_at | spermidine/spermine N1-acetyltransferase 1 | SAT1 | 6303 |
| 213988_s_at | spermidine/spermine N1-acetyltransferase 1 | SAT1 | 6303 |
| 225272_at | spermidine/spermine N1-acetyltransferase 2 | SAT2 | 112483 |
| 213435_at | SATB homeobox 2 | SATB2 | 23314 |
| 234491_s_at | salvador homolog 1 (Drosophila) | SAV1 | 60485 |
| 222573_s_at | salvador homolog 1 (Drosophila) | SAV1 | 60485 |
| 233914_s_at | SET binding factor 2 | SBF2 | 81846 |
| 226169_at | SET binding factor 2 | SBF2 | 81846 |
| 242935_at | SET binding factor 2 | SBF2 | 81846 |
| 218737_at | strawberry notch homolog 1 (Drosophila) | SBNO1 | 55206 |
| 204166_at | strawberry notch homolog 2 (Drosophila) | SBNO2 | 22904 |
| 206667_s_at | secretory carrier membrane protein 1 | SCAMP1 | 9522 |
| 206668_s_at | secretory carrier membrane protein 1 | SCAMP1 | 9522 |
| 212425_at | secretory carrier membrane protein 1 | SCAMP1 | 9522 |
| 1552978_a_at | secretory carrier membrane protein 1 | SCAMP1 | 9522 |
| 213244_at | secretory carrier membrane protein 4 | SCAMP4 | 113178 |
| 231059_x_at | SCAN domain containing 1 | SCAND1 | 51282 |
| 212329_at | SREBF chaperone | SCAP | 22937 |
| 209741_x_at | S phase cyclin A-associated protein in the ER | SCAPER | 49855 |
| 224983_at | scavenger receptor class B, member 2 | SCARB2 | 950 |
| 201647_s_at | scavenger receptor class B, member 2 | SCARB2 | 950 |
| 201646_at | scavenger receptor class B, member 2 | SCARB2 | 950 |
| 206995_x_at | scavenger receptor class F, member 1 | SCARF1 | 8578 |
| 1555021_a_at | scavenger receptor class F, member 1 | SCARF1 | 8578 |
| 200832_s_at | stearoyl-CoA desaturase (delta-9-desaturase) | SCD | 6319 |
| 220232_at | stearoyl-CoA desaturase 5 | SCD5 | 79966 |
| 1569495_at | sodium channel and clathrin linker 1 | SCLT1 | 132320 |
| 236487_at | sodium channel and clathrin linker 1 | SCLT1 | 132320 |
| 218793_s_at | sex comb on midleg-like 1 (Drosophila) | SCML1 | 6322 |
| 229057_at | sodium channel, voltage-gated, type II, alpha subunit | SCN2A | 6326 |
| 218672_at | sodium channel modifier 1 | SCNM1 | 79005 |
| 205241_at | SCO cytochrome oxidase deficient homolog 2 (yeast) | SCO2 | 9997 |
| 222986_s_at | scotin | SCOTIN | 51246 |
| 211733_x_at | sterol carrier protein 2 | SCP2 | 6342 |
| 201339_s_at | sterol carrier protein 2 | SCP2 | 6342 |
| 218217_at | serine carboxypeptidase 1 | SCPEP1 | 59342 |
| 222849_s_at | secernin 3 | SCRN3 | 79634 |
| 202541_at | small inducible cytokine subfamily E, member 1 (endothelial monocyte-activatin | SCYE1 | 9255 |
| 224960_at | SCY1-like 2 (S. cerevisiae) | SCYL2 | 55681 |
| 41329_at | SCY1-like 3 (S. cerevisiae) | SCYL3 | 57147 |
| 205607_s_at | SCY1-like 3 (S. cerevisiae) | SCYL3 | 57147 |
| 218607_s_at | SDA1 domain containing 1 | SDAD1 | 55153 |
| 212157_at | syndecan 2 | SDC2 | 6383 |
| 212154_at | syndecan 2 | SDC2 | 6383 |
| 212158_at | syndecan 2 | SDC2 | 6383 |
| 200958_s_at | syndecan binding protein (syntenin) | SDCBP | 6386 |
| 1569594_a_at | serologically defined colon cancer antigen 1 | SDCCAG1 | 9147 |
| 1555495_a_at | serologically defined colon cancer antigen 10 | SDCCAG10 | 10283 |
| 243772_at | serologically defined colon cancer antigen 8 | SDCCAG8 | 10806 |
| 218681_s_at | stromal cell-derived factor 2-like 1 | SDF2L1 | 23753 |
| 224472_x_at | stromal cell derived factor 4 | SDF4 | 51150 |
| 221972_s_at | stromal cell derived factor 4 | SDF4 | 51150 |
| 232032_x_at | stromal cell derived factor 4 | SDF4 | 51150 |
| 202675_at | succinate dehydrogenase complex, subunit B, iron sulfur (lp) | SDHB | 6390 |
| 238056_at | succinate dehydrogenase complex, subunit C, integral membrane protein, 15kD | SDHC | 6391 |
| 202026_at | succinate dehydrogenase complex, subunit D, integral membrane protein | SDHD | 6392 |
| 207707_s_at | SEC13 homolog (S. cerevisiae) | SEC13 | 6396 |
| 202084_s_at | SEC14-like 1 (S. cerevisiae) | SEC14L1 | 6397 |
| 202082_s_at | SEC14-like 1 (S. cerevisiae) | SEC14L1 | 6397 |
| 202083_s_at | SEC14-like 1 (S. cerevisiae) | SEC14L1 | 6397 |
| 215696_s_at | SEC16 homolog A (S. cerevisiae) | SEC16A | 9919 |
| 1555289_at | SEC16 homolog B (S. cerevisiae) | SEC16B | 89866 |
| 218703_at | SEC22 vesicle trafficking protein homolog A (S. cerevisiae) | SEC22A | 26984 |

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| 209206_at | SEC22 vesicle trafficking protein homolog B (<i>S. cerevisiae</i>) | <i>SEC22B</i> | 9554 |
| 210293_s_at | Sec23 homolog B (<i>S. cerevisiae</i>) | <i>SEC23B</i> | 10483 |
| 201583_s_at | Sec23 homolog B (<i>S. cerevisiae</i>) | <i>SEC23B</i> | 10483 |
| 212900_at | SEC24 related gene family, member A (<i>S. cerevisiae</i>) | <i>SEC24A</i> | 10802 |
| 212902_at | SEC24 related gene family, member A (<i>S. cerevisiae</i>) | <i>SEC24A</i> | 10802 |
| 244841_at | SEC24 related gene family, member A (<i>S. cerevisiae</i>) | <i>SEC24A</i> | 10802 |
| 202798_at | SEC24 related gene family, member B (<i>S. cerevisiae</i>) | <i>SEC24B</i> | 10427 |
| 202361_at | SEC24 related gene family, member C (<i>S. cerevisiae</i>) | <i>SEC24C</i> | 9632 |
| 202375_at | SEC24 related gene family, member D (<i>S. cerevisiae</i>) | <i>SEC24D</i> | 9871 |
| 215009_s_at | SEC31 homolog A (<i>S. cerevisiae</i>) | <i>SEC31A</i> | 22872 |
| 222385_x_at | Sec61 alpha 1 subunit (<i>S. cerevisiae</i>) | <i>SEC61A1</i> | 29927 |
| 217716_s_at | Sec61 alpha 1 subunit (<i>S. cerevisiae</i>) | <i>SEC61A1</i> | 29927 |
| 219499_at | Sec61 alpha 2 subunit (<i>S. cerevisiae</i>) | <i>SEC61A2</i> | 55176 |
| 203133_at | Sec61 beta subunit | <i>SEC61B</i> | 10952 |
| 203484_at | Sec61 gamma subunit | <i>SEC61G</i> | 23480 |
| 224250_s_at | SECIS binding protein 2 | <i>SECISBP2</i> | 79048 |
| 221931_s_at | SEH1-like (<i>S. cerevisiae</i>) | <i>SEH1L</i> | 81929 |
| 202061_s_at | sel-1 suppressor of lin-12-like (<i>C. elegans</i>) | <i>SEL1L</i> | 6400 |
| 202062_s_at | sel-1 suppressor of lin-12-like (<i>C. elegans</i>) | <i>SEL1L</i> | 6400 |
| 223070_at | selenoprotein K | <i>SELK</i> | 58515 |
| 204563_at | selectin L (lymphocyte adhesion molecule 1) | <i>SELL</i> | 6402 |
| 226051_at | selenoprotein M | <i>SELM</i> | 140606 |
| 209880_s_at | selectin P ligand | <i>SELPLG</i> | 6404 |
| 209879_at | selectin P ligand | <i>SELPLG</i> | 6404 |
| 217811_at | selenoprotein T | <i>SELT</i> | 51714 |
| 203789_s_at | sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (sem: <i>SEMA3C</i>) | | 10512 |
| 203788_s_at | sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (sem: <i>SEMA3C</i>) | | 10512 |
| 223449_at | sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaph <i>SEMA6A</i>) | | 57556 |
| 206442_at | semenogelin I | <i>SEMG1</i> | 6406 |
| 218122_s_at | SUMO1/sentrin/SMT3 specific peptidase 2 | <i>SENP2</i> | 59343 |
| 202319_at | SUMO1/sentrin specific peptidase 6 | <i>SENP6</i> | 26054 |
| 202318_s_at | SUMO1/sentrin specific peptidase 6 | <i>SENP6</i> | 26054 |
| 214790_at | SUMO1/sentrin specific peptidase 6 | <i>SENP6</i> | 26054 |
| 208939_at | selenophosphate synthetase 1 | <i>SEPHS1</i> | 22929 |
| 237475_x_at | Selenoprotein P, plasma, 1 | <i>SEPP1</i> | 100129792 |
| 235516_at | Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA synthase | <i>SEPSECS</i> | 51091 |
| 201194_at | selenoprotein W, 1 | <i>SEPW1</i> | 6415 |
| 210076_x_at | SERPINE1 mRNA binding protein 1 | <i>SERBP1</i> | 26135 |
| 227369_at | SERPINE1 mRNA binding protein 1 | <i>SERBP1</i> | 26135 |
| 228129_at | SERPINE1 mRNA binding protein 1 | <i>SERBP1</i> | 26135 |
| 223538_at | small EDRK-rich factor 1A (telomeric) /// small EDRK-rich factor 1B (centromeric | <i>SERF1A</i> /// <i>SERF1B</i> | 728492 /// 8 |
| 224625_x_at | small EDRK-rich factor 2 | <i>SERF2</i> | 10169 /// 25 |
| 217756_x_at | small EDRK-rich factor 2 | <i>SERF2</i> | 10169 /// 25 |
| 239114_at | Secretion regulating guanine nucleotide exchange factor | <i>SERGEF</i> | 26297 |
| 208671_at | serine incorporator 1 | <i>SERINC1</i> | 57515 |
| 221472_at | serine incorporator 3 | <i>SERINC3</i> | 10955 |
| 211769_x_at | serine incorporator 3 | <i>SERINC3</i> | 10955 |
| 221473_x_at | serine incorporator 3 | <i>SERINC3</i> | 10955 |
| 221471_at | serine incorporator 3 | <i>SERINC3</i> | 10955 |
| 235475_at | Stress-associated endoplasmic reticulum protein 1 | <i>SERP1</i> | 100129720 |
| 200970_s_at | stress-associated endoplasmic reticulum protein 1 | <i>SERP1</i> | 27230 |
| 200971_s_at | stress-associated endoplasmic reticulum protein 1 | <i>SERP1</i> | 27230 |
| 212268_at | serpin peptidase inhibitor, clade B (ovalbumin), member 1 | <i>SERPINB1</i> | 1992 |
| 217272_s_at | serpin peptidase inhibitor, clade B (ovalbumin), member 13 | <i>SERPINB13</i> | 5275 |
| 1556950_s_at | serpin peptidase inhibitor, clade B (ovalbumin), member 6 | <i>SERPINB6</i> | 5269 |
| 211474_s_at | serpin peptidase inhibitor, clade B (ovalbumin), member 6 | <i>SERPINB6</i> | 5269 |
| 206034_at | serpin peptidase inhibitor, clade B (ovalbumin), member 8 | <i>SERPINB8</i> | 5271 |
| 209723_at | serpin peptidase inhibitor, clade B (ovalbumin), member 9 | <i>SERPINB9</i> | 5272 |
| 209722_s_at | serpin peptidase inhibitor, clade B (ovalbumin), member 9 | <i>SERPINB9</i> | 5272 |
| 242814_at | serpin peptidase inhibitor, clade B (ovalbumin), member 9 | <i>SERPINB9</i> | 5272 |
| 202628_s_at | serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1 | <i>SERPINE1</i> | 5054 |
| 202627_s_at | serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1 | <i>SERPINE1</i> | 5054 |
| 212190_at | serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1 | <i>SERPINE2</i> | 5270 |

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|--------------|---|----------------|--------|
| 200986_at | serpin peptidase inhibitor, clade G (C1 inhibitor), member 1, (angioedema, here <i>SERPING1</i>) | | 710 |
| 223394_at | SERTA domain containing 1 | <i>SERTAD1</i> | 29950 |
| 202656_s_at | SERTA domain containing 2 | <i>SERTAD2</i> | 9792 |
| 202657_s_at | SERTA domain containing 2 | <i>SERTAD2</i> | 9792 |
| 219382_at | SERTA domain containing 3 | <i>SERTAD3</i> | 29946 |
| 229674_at | SERTA domain containing 4 | <i>SERTAD4</i> | 56256 |
| 235684_s_at | sestrin 3 | <i>SESN3</i> | 143686 |
| 213047_x_at | SET translocation (myeloid leukemia-associated) | <i>SET</i> | 6418 |
| 200631_s_at | SET translocation (myeloid leukemia-associated) | <i>SET</i> | 6418 |
| 1569106_s_at | SET domain containing 5 | <i>SETD5</i> | 55209 |
| 221806_s_at | SET domain containing 5 | <i>SETD5</i> | 55209 |
| 235339_at | SET domain, bifurcated 2 | <i>SETDB2</i> | 83852 |
| 235338_s_at | SET domain, bifurcated 2 | <i>SETDB2</i> | 83852 |
| 238406_x_at | seizure related 6 homolog (mouse)-like 2 | <i>SEZ6L2</i> | 26470 |
| 201356_at | splicing factor 3a, subunit 1, 120kDa | <i>SF3A1</i> | 10291 |
| 201357_s_at | splicing factor 3a, subunit 1, 120kDa | <i>SF3A1</i> | 10291 |
| 216457_s_at | splicing factor 3a, subunit 1, 120kDa | <i>SF3A1</i> | 10291 |
| 37462_i_at | splicing factor 3a, subunit 2, 66kDa | <i>SF3A2</i> | 8175 |
| 203818_s_at | splicing factor 3a, subunit 3, 60kDa | <i>SF3A3</i> | 10946 |
| 201071_x_at | splicing factor 3b, subunit 1, 155kDa | <i>SF3B1</i> | 23451 |
| 201070_x_at | splicing factor 3b, subunit 1, 155kDa | <i>SF3B1</i> | 23451 |
| 214305_s_at | splicing factor 3b, subunit 1, 155kDa | <i>SF3B1</i> | 23451 |
| 223416_at | splicing factor 3B, 14 kDa subunit | <i>SF3B14</i> | 51639 |
| 1558230_at | splicing factor 3b, subunit 2, 145kDa | <i>SF3B2</i> | 10992 |
| 200619_at | splicing factor 3b, subunit 2, 145kDa | <i>SF3B2</i> | 10992 |
| 221263_s_at | splicing factor 3b, subunit 5, 10kDa | <i>SF3B5</i> | 83443 |
| 213370_s_at | Scm-like with four mbt domains 1 | <i>SFMBT1</i> | 51460 |
| 33323_r_at | stratifin | <i>SFN</i> | 2810 |
| 201585_s_at | splicing factor proline/glutamine-rich (polypyrimidine tract binding protein asso | <i>SFPQ</i> | 6421 |
| 221768_at | Splicing factor proline/glutamine-rich (polypyrimidine tract binding protein asso | <i>SFPQ</i> | 6421 |
| 200685_at | splicing factor, arginine/serine-rich 11 | <i>SFRS11</i> | 9295 |
| 213742_at | splicing factor, arginine/serine-rich 11 | <i>SFRS11</i> | 9295 |
| 1568783_at | Splicing factor, arginine/serine-rich 12 | <i>SFRS12</i> | 140890 |
| 212721_at | splicing factor, arginine/serine-rich 12 | <i>SFRS12</i> | 140890 |
| 238781_at | splicing factor, arginine/serine-rich 12 | <i>SFRS12</i> | --- |
| 235611_at | splicing factor, arginine/serine-rich 12 | <i>SFRS12</i> | --- |
| 226082_s_at | splicing factor, arginine/serine-rich 15 | <i>SFRS15</i> | 57466 |
| 203624_at | splicing factor, arginine/serine-rich 17A | <i>SFRS17A</i> | 8227 |
| 230375_at | splicing factor, arginine/serine-rich 18 | <i>SFRS18</i> | 25957 |
| 214789_x_at | splicing factor, arginine/serine-rich 2B | <i>SFRS2B</i> | 10929 |
| 228760_at | splicing factor, arginine/serine-rich 2B | <i>SFRS2B</i> | 10929 |
| 206989_s_at | splicing factor, arginine/serine-rich 2, interacting protein | <i>SFRS2IP</i> | 9169 |
| 232392_at | Splicing factor, arginine/serine-rich 3 | <i>SFRS3</i> | 6428 |
| 208672_s_at | splicing factor, arginine/serine-rich 3 | <i>SFRS3</i> | 6428 |
| 202899_s_at | splicing factor, arginine/serine-rich 3 | <i>SFRS3</i> | 6428 |
| 208673_s_at | splicing factor, arginine/serine-rich 3 | <i>SFRS3</i> | 6428 |
| 201696_at | splicing factor, arginine/serine-rich 4 | <i>SFRS4</i> | 6429 |
| 210077_s_at | splicing factor, arginine/serine-rich 5 | <i>SFRS5</i> | 6430 |
| 201129_at | splicing factor, arginine/serine-rich 7, 35kDa | <i>SFRS7</i> | 6432 |
| 202773_s_at | splicing factor, arginine/serine-rich 8 (suppressor-of-white-apricot homolog, Drc | <i>SFRS8</i> | 6433 |
| 225850_at | SFT2 domain containing 1 | <i>SFT2D1</i> | 113402 |
| 225849_s_at | SFT2 domain containing 1 | <i>SFT2D1</i> | 113402 |
| 226639_at | SFT2 domain containing 3 | <i>SFT2D3</i> | 84826 |
| 213936_x_at | surfactant, pulmonary-associated protein B | <i>SFTPB</i> | 6439 |
| 218392_x_at | sideroflexin 1 | <i>SFXN1</i> | 94081 |
| 220974_x_at | sideroflexin 3 | <i>SFXN3</i> | 81855 |
| 217226_s_at | sideroflexin 3 | <i>SFXN3</i> | 81855 |
| 228602_at | sarcoglycan, delta (35kDa dystrophin-associated glycoprotein) | <i>SGCD</i> | 6444 |
| 204688_at | sarcoglycan, epsilon | <i>SGCE</i> | 8910 |
| 201739_at | serum/glucocorticoid regulated kinase | <i>SGK</i> | 6446 |
| 225913_at | NKF3 kinase family member | <i>SGK269</i> | 79834 |
| 243141_at | sphingomyelin synthase 2 | <i>SGMS2</i> | 166929 |
| 235425_at | shugoshin-like 2 (S. pombe) | <i>SGOL2</i> | 151246 |

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|--------------|--|-----------------|--------|
| 230165_at | shugoshin-like 2 (<i>S. pombe</i>) | <i>SGOL2</i> | 151246 |
| 212321_at | sphingosine-1-phosphate lyase 1 | <i>SGPL1</i> | 8879 |
| 223391_at | sphingosine-1-phosphate phosphatase 1 | <i>SGPP1</i> | 81537 |
| 221268_s_at | sphingosine-1-phosphate phosphatase 1 | <i>SGPP1</i> | 81537 |
| 238567_at | sphingosine-1-phosphate phosphatase 2 | <i>SGPP2</i> | 130367 |
| 244780_at | sphingosine-1-phosphate phosphatase 2 | <i>SGPP2</i> | 130367 |
| 35626_at | N-sulfoglucosamine sulfohydrolase (sulfamidase) | <i>SGSH</i> | 6448 |
| 204293_at | N-sulfoglucosamine sulfohydrolase (sulfamidase) | <i>SGSH</i> | 6448 |
| 217538_at | small G protein signaling modulator 2 | <i>SGSM2</i> | 9905 |
| 232084_at | small glutamine-rich tetratricopeptide repeat (TPR)-containing, beta | <i>SGTB</i> | 54557 |
| 228745_at | small glutamine-rich tetratricopeptide repeat (TPR)-containing, beta | <i>SGTB</i> | 54557 |
| 40149_at | SH2B adaptor protein 1 | <i>SH2B1</i> | 25970 |
| 203320_at | SH2B adaptor protein 3 | <i>SH2B3</i> | 10019 |
| 210116_at | SH2 domain protein 1A, Duncan's disease (lymphoproliferative syndrome) | <i>SH2D1A</i> | 4068 |
| 1553177_at | SH2 domain containing 1B | <i>SH2D1B</i> | 117157 |
| 219513_s_at | SH2 domain containing 3A | <i>SH2D3A</i> | 10045 |
| 222169_x_at | SH2 domain containing 3A | <i>SH2D3A</i> | 10045 |
| 1563849_at | SH2 domain containing 4B | <i>SH2D4B</i> | 387694 |
| 242543_at | SH2 domain containing 6 | <i>SH2D6</i> | 284948 |
| 204979_s_at | SH3 domain binding glutamic acid-rich protein | <i>SH3BGR</i> | 6450 |
| 201312_s_at | SH3 domain binding glutamic acid-rich protein like | <i>SH3BGRL</i> | 6451 |
| 211250_s_at | SH3-domain binding protein 2 | <i>SH3BP2</i> | 6452 |
| 209370_s_at | SH3-domain binding protein 2 | <i>SH3BP2</i> | 6452 |
| 201810_s_at | SH3-domain binding protein 5 (BTK-associated) | <i>SH3BP5</i> | 9467 |
| 201811_x_at | SH3-domain binding protein 5 (BTK-associated) | <i>SH3BP5</i> | 9467 |
| 227591_at | SH3-domain binding protein 5 (BTK-associated) | <i>SH3BP5</i> | --- |
| 201851_at | SH3-domain GRB2-like 1 | <i>SH3GL1</i> | 6455 |
| 211565_at | SH3-domain GRB2-like 3 | <i>SH3GL3</i> | 6457 |
| 210101_x_at | SH3-domain GRB2-like endophilin B1 | <i>SH3GLB1</i> | 51100 |
| 209091_s_at | SH3-domain GRB2-like endophilin B1 | <i>SH3GLB1</i> | 51100 |
| 224907_s_at | SH3-domain GRB2-like endophilin B2 | <i>SH3GLB2</i> | 56904 |
| 213307_at | SH3 and multiple ankyrin repeat domains 2 | <i>SHANK2</i> | 22941 |
| 213308_at | SH3 and multiple ankyrin repeat domains 2 | <i>SHANK2</i> | 22941 |
| 214853_s_at | SHC (Src homology 2 domain containing) transforming protein 1 | <i>SHC1</i> | 6464 |
| 201469_s_at | SHC (Src homology 2 domain containing) transforming protein 1 | <i>SHC1</i> | 6464 |
| 202777_at | soc-2 suppressor of clear homolog (<i>C. elegans</i>) | <i>SHOC2</i> | 8036 |
| 226366_at | SNF2 histone linker PHD RING helicase | <i>SHPRH</i> | 257218 |
| 206664_at | sucrase-isomaltase (alpha-glucosidase) | <i>SI</i> | 6476 |
| 202981_x_at | seven in absentia homolog 1 (<i>Drosophila</i>) | <i>SIAH1</i> | 6477 |
| 202980_s_at | seven in absentia homolog 1 (<i>Drosophila</i>) | <i>SIAH1</i> | 6477 |
| 209339_at | seven in absentia homolog 2 (<i>Drosophila</i>) | <i>SIAH2</i> | 6478 |
| 219734_at | SID1 transmembrane family, member 1 | <i>SIDT1</i> | 54847 |
| 44673_at | sialic acid binding Ig-like lectin 1, sialoadhesin | <i>SIGLEC1</i> | 6614 |
| 215856_at | sialic acid binding Ig-like lectin 15 | <i>SIGLEC15</i> | 284266 |
| 210796_x_at | sialic acid binding Ig-like lectin 6 | <i>SIGLEC6</i> | 946 |
| 207224_s_at | sialic acid binding Ig-like lectin 7 | <i>SIGLEC7</i> | 27036 |
| 216537_s_at | sialic acid binding Ig-like lectin 7 | <i>SIGLEC7</i> | 27036 |
| 232686_at | sialic acid binding Ig-like lectin, pseudogene 3 | <i>SIGLECP3</i> | 284367 |
| 221705_s_at | suppressor of IKK epsilon | <i>SIKE</i> | 80143 |
| 206876_at | single-minded homolog 1 (<i>Drosophila</i>) | <i>SIM1</i> | 6492 |
| 225135_at | SIN3 homolog A, transcription regulator (yeast) | <i>SIN3A</i> | 25942 |
| 39705_at | SIN3 homolog B, transcription regulator (yeast) | <i>SIN3B</i> | 23309 |
| 211114_x_at | survival of motor neuron protein interacting protein 1 | <i>SIP1</i> | 8487 |
| 211115_x_at | survival of motor neuron protein interacting protein 1 | <i>SIP1</i> | 8487 |
| 210779_x_at | survival of motor neuron protein interacting protein 1 | <i>SIP1</i> | 8487 |
| 202255_s_at | signal-induced proliferation-associated 1 like 1 | <i>SIPA1L1</i> | 26037 |
| 233587_s_at | signal-induced proliferation-associated 1 like 2 | <i>SIPA1L2</i> | 57568 |
| 225056_at | signal-induced proliferation-associated 1 like 2 | <i>SIPA1L2</i> | 57568 |
| 1559469_s_at | signal-induced proliferation-associated 1 like 2 | <i>SIPA1L2</i> | 57568 |
| 206934_at | signal-regulatory protein beta 1 | <i>SIRPB1</i> | 10326 |
| 1554624_a_at | signal-regulatory protein beta 1 | <i>SIRPB1</i> | 10326 |
| 49327_at | sirtuin (silent mating type information regulation 2 homolog) 3 (<i>S. cerevisiae</i>) | <i>SIRT3</i> | 23410 |
| 233179_x_at | sirtuin (silent mating type information regulation 2 homolog) 6 (<i>S. cerevisiae</i>) | <i>SIRT6</i> | 51548 |

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| 203489_at | SIVA1, apoptosis-inducing factor | <i>SIVA1</i> | 10572 |
| 206675_s_at | SKI-like oncogene | <i>SKIL</i> | 6498 |
| 203727_at | superkiller viralicidic activity 2-like (<i>S. cerevisiae</i>) | <i>SKIV2L</i> | 6499 |
| 200718_s_at | S-phase kinase-associated protein 1A (p19A) | <i>SKP1A</i> | 6500 |
| 207974_s_at | S-phase kinase-associated protein 1A (p19A) | <i>SKP1A</i> | 6500 |
| 203625_x_at | S-phase kinase-associated protein 2 (p45) | <i>SKP2</i> | 6502 |
| 203761_at | Src-like-adaptor | <i>SLA</i> | 6503 |
| 225619_at | SLAIN motif family, member 1 | <i>SLAIN1</i> | 122060 |
| 224853_at | SLAIN motif family, member 2 | <i>SLAIN2</i> | 57606 |
| 224845_s_at | SLAIN motif family, member 2 | <i>SLAIN2</i> | 57606 |
| 206181_at | signaling lymphocytic activation molecule family member 1 | <i>SLAMF1</i> | 6504 |
| 1552497_a_at | SLAM family member 6 | <i>SLAMF6</i> | 114836 |
| 235143_at | solute carrier family 10 (sodium/bile acid cotransporter family), member 7 | <i>SLC10A7</i> | 84068 |
| 210422_x_at | solute carrier family 11 (proton-coupled divalent metal ion transporters), memb | <i>SLC11A1</i> | 6556 |
| 217507_at | solute carrier family 11 (proton-coupled divalent metal ion transporters), memb | <i>SLC11A1</i> | 6556 |
| 210423_s_at | solute carrier family 11 (proton-coupled divalent metal ion transporters), memb | <i>SLC11A1</i> | 6556 |
| 1555116_s_at | solute carrier family 11 (proton-coupled divalent metal ion transporters), memb | <i>SLC11A1</i> | 6556 |
| 203123_s_at | solute carrier family 11 (proton-coupled divalent metal ion transporters), memb | <i>SLC11A2</i> | 4891 |
| 203124_s_at | solute carrier family 11 (proton-coupled divalent metal ion transporters), memb | <i>SLC11A2</i> | 4891 |
| 203125_x_at | solute carrier family 11 (proton-coupled divalent metal ion transporters), memb | <i>SLC11A2</i> | 4891 |
| 204404_at | solute carrier family 12 (sodium/potassium/chloride transporters), member 2 | <i>SLC12A2</i> | 6558 |
| 225835_at | solute carrier family 12 (sodium/potassium/chloride transporters), member 2 | <i>SLC12A2</i> | 6558 |
| 210040_at | solute carrier family 12, (potassium-chloride transporter) member 5 | <i>SLC12A5</i> | 57468 |
| 220740_s_at | solute carrier family 12 (potassium/chloride transporters), member 6 | <i>SLC12A6</i> | 9990 |
| 223596_at | solute carrier family 12 (potassium/chloride transporters), member 6 | <i>SLC12A6</i> | 9990 |
| 220371_s_at | solute carrier family 12 (potassium/chloride transporters), member 9 | <i>SLC12A9</i> | 56996 |
| 220502_s_at | solute carrier family 13 (sodium/sulfate symporters), member 1 | <i>SLC13A1</i> | 6561 |
| 240159_at | solute carrier family 15 (H+/peptide transporter), member 2 | <i>SLC15A2</i> | 6565 |
| 205317_s_at | solute carrier family 15 (H+/peptide transporter), member 2 | <i>SLC15A2</i> | 6565 |
| 219593_at | solute carrier family 15, member 3 | <i>SLC15A3</i> | 51296 |
| 225057_at | solute carrier family 15, member 4 | <i>SLC15A4</i> | 121260 |
| 225043_at | solute carrier family 15, member 4 | <i>SLC15A4</i> | 121260 |
| 238029_s_at | solute carrier family 16, member 14 (monocarboxylic acid transporter 14) | <i>SLC16A14</i> | 151473 |
| 202855_s_at | solute carrier family 16, member 3 (monocarboxylic acid transporter 4) | <i>SLC16A3</i> | 9123 |
| 202856_s_at | solute carrier family 16, member 3 (monocarboxylic acid transporter 4) | <i>SLC16A3</i> | 9123 |
| 206600_s_at | solute carrier family 16, member 5 (monocarboxylic acid transporter 6) | <i>SLC16A5</i> | 100133772 , |
| 206599_at | solute carrier family 16, member 5 (monocarboxylic acid transporter 6) | <i>SLC16A5</i> | 100133772 , |
| 207038_at | solute carrier family 16, member 6 (monocarboxylic acid transporter 7) | <i>SLC16A6</i> | 9120 |
| 230748_at | solute carrier family 16, member 6 (monocarboxylic acid transporter 7) | <i>SLC16A6</i> | 9120 |
| 207057_at | solute carrier family 16, member 7 (monocarboxylic acid transporter 2) | <i>SLC16A7</i> | 9194 |
| 241866_at | solute carrier family 16, member 7 (monocarboxylic acid transporter 2) | <i>SLC16A7</i> | 9194 |
| 210807_s_at | solute carrier family 16, member 7 (monocarboxylic acid transporter 2) | <i>SLC16A7</i> | 9194 |
| 207097_s_at | solute carrier family 17 (sodium phosphate), member 2 | <i>SLC17A2</i> | 10246 |
| 223441_at | solute carrier family 17 (anion/sugar transporter), member 5 | <i>SLC17A5</i> | 26503 |
| 220551_at | solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter) | <i>SLC17A6</i> | 57084 |
| 204230_s_at | solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter) | <i>SLC17A7</i> | 57030 |
| 1553415_at | solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter) | <i>SLC17A8</i> | 246213 |
| 209681_at | solute carrier family 19 (thiamine transporter), member 2 | <i>SLC19A2</i> | 10560 |
| 213664_at | solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, s | <i>SLC1A1</i> | 6505 |
| 212811_x_at | solute carrier family 1 (glutamate/neutral amino acid transporter), member 4 | <i>SLC1A4</i> | 6509 |
| 209610_s_at | solute carrier family 1 (glutamate/neutral amino acid transporter), member 4 | <i>SLC1A4</i> | 6509 |
| 207408_at | solute carrier family 22 (organic cation transporter), member 14 | <i>SLC22A14</i> | 9389 |
| 204981_at | solute carrier family 22 (organic cation transporter), member 18 | <i>SLC22A18</i> | 5002 |
| 242578_x_at | Solute carrier family 22 (extraneuronal monoamine transporter), member 3 | <i>SLC22A3</i> | 6581 |
| 209236_at | solute carrier family 23 (nucleobase transporters), member 2 | <i>SLC23A2</i> | 9962 |
| 211572_s_at | solute carrier family 23 (nucleobase transporters), member 2 | <i>SLC23A2</i> | 9962 |
| 230949_at | solute carrier family 23 (nucleobase transporters), member 3 | <i>SLC23A3</i> | 151295 |
| 219090_at | solute carrier family 24 (sodium/potassium/calcium exchanger), member 3 | <i>SLC24A3</i> | 57419 |
| 218749_s_at | solute carrier family 24 (sodium/potassium/calcium exchanger), member 6 | <i>SLC24A6</i> | 80024 |
| 210010_s_at | solute carrier family 25 (mitochondrial carrier; citrate transporter), member 1 | <i>SLC25A1</i> | 6576 |
| 203775_at | solute carrier family 25, member 13 (citrin) | <i>SLC25A13</i> | 10165 |
| 229061_s_at | solute carrier family 25, member 13 (citrin) | <i>SLC25A13</i> | 10165 |
| 204587_at | solute carrier family 25 (mitochondrial carrier, brain), member 14 | <i>SLC25A14</i> | 9016 |

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| 210686_x_at | solute carrier family 25 (mitochondrial carrier; Graves disease autoantigen), member 1 | <i>SLC25A16</i> | 8034 |
| 203658_at | solute carrier family 25 (carnitine/acylcarnitine translocase), member 20 | <i>SLC25A20</i> | 788 |
| 204342_at | solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 | <i>SLC25A24</i> | 29957 |
| 223192_at | solute carrier family 25, member 28 | <i>SLC25A28</i> | 81894 |
| 225305_at | solute carrier family 25, member 29 | <i>SLC25A29</i> | 123096 |
| 225306_s_at | solute carrier family 25, member 29 | <i>SLC25A29</i> | 123096 |
| 232280_at | Solute carrier family 25, member 29 | <i>SLC25A29</i> | 123096 |
| 223698_at | solute carrier family 25, member 36 | <i>SLC25A36</i> | 55186 |
| 222529_at | solute carrier family 25, member 37 | <i>SLC25A37</i> | 51312 |
| 222528_s_at | solute carrier family 25, member 37 | <i>SLC25A37</i> | 51312 |
| 218978_s_at | solute carrier family 25, member 37 | <i>SLC25A37</i> | 51312 |
| 205716_at | solute carrier family 25, member 40 | <i>SLC25A40</i> | 55972 |
| 212683_at | solute carrier family 25, member 44 | <i>SLC25A44</i> | 9673 |
| 212085_at | solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 6 | <i>SLC25A6</i> | 293 |
| 226679_at | solute carrier family 26, member 11 | <i>SLC26A11</i> | 284129 |
| 224959_at | solute carrier family 26 (sulfate transporter), member 2 | <i>SLC26A2</i> | 1836 |
| 215657_at | Solute carrier family 26, member 3 | <i>SLC26A3</i> | 1811 |
| 239006_at | solute carrier family 26, member 7 | <i>SLC26A7</i> | 115111 |
| 219932_at | solute carrier family 27 (fatty acid transporter), member 6 | <i>SLC27A6</i> | 28965 |
| 201250_s_at | solute carrier family 2 (facilitated glucose transporter), member 1 | <i>SLC2A1</i> | 6513 |
| 1552695_a_at | solute carrier family 2 (facilitated glucose transporter), member 13 | <i>SLC2A13</i> | 114134 |
| 216236_s_at | solute carrier family 2 (facilitated glucose transporter), member 3 | <i>SLC2A14</i> | 144195 |
| 222088_s_at | solute carrier family 2 (facilitated glucose transporter), member 3 | <i>SLC2A14</i> | 144195 |
| 202497_x_at | solute carrier family 2 (facilitated glucose transporter), member 3 | <i>SLC2A3</i> | 6515 |
| 202499_s_at | solute carrier family 2 (facilitated glucose transporter), member 3 | <i>SLC2A3</i> | 6515 |
| 202498_s_at | solute carrier family 2 (facilitated glucose transporter), member 3 | <i>SLC2A3</i> | 6515 |
| 221751_at | Solute carrier family 2 (facilitated glucose transporter), member 3 pseudogene 1 | <i>SLC2A3P1</i> | 100128062 |
| 218494_s_at | SLC2A4 regulator | <i>SLC2A4RG</i> | 56731 |
| 204429_s_at | solute carrier family 2 (facilitated glucose/fructose transporter), member 5 | <i>SLC2A5</i> | 6518 |
| 212907_at | solute carrier family 30 (zinc transporter), member 1 | <i>SLC30A1</i> | 7779 |
| 228181_at | solute carrier family 30 (zinc transporter), member 1 | <i>SLC30A1</i> | 7779 |
| 239596_at | solute carrier family 30 (zinc transporter), member 7 | <i>SLC30A7</i> | 148867 |
| 239983_at | solute carrier family 30 (zinc transporter), member 8 | <i>SLC30A8</i> | 169026 |
| 235013_at | solute carrier family 31 (copper transporters), member 1 | <i>SLC31A1</i> | 1317 |
| 203971_at | solute carrier family 31 (copper transporters), member 1 | <i>SLC31A1</i> | 1317 |
| 204204_at | solute carrier family 31 (copper transporters), member 2 | <i>SLC31A2</i> | 1318 |
| 209865_at | solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member 3 | <i>SLC35A3</i> | 23443 |
| 218519_at | solute carrier family 35, member A5 | <i>SLC35A5</i> | 55032 |
| 202433_at | solute carrier family 35, member B1 | <i>SLC35B1</i> | 10237 |
| 224716_at | solute carrier family 35, member B2 | <i>SLC35B2</i> | 347734 |
| 225037_at | solute carrier family 35, member C2 | <i>SLC35C2</i> | 51006 |
| 209711_at | solute carrier family 35 (UDP-glucuronic acid/UDP-N-acetylgalactosamine dual transporter), member 1 | <i>SLC35D1</i> | 23169 |
| 209712_at | solute carrier family 35 (UDP-glucuronic acid/UDP-N-acetylgalactosamine dual transporter), member 2 | <i>SLC35D1</i> | 23169 |
| 231437_at | solute carrier family 35, member D2 | <i>SLC35D2</i> | 11046 |
| 227518_at | solute carrier family 35, member E1 | <i>SLC35E1</i> | 79939 |
| 235035_at | solute carrier family 35, member E1 | <i>SLC35E1</i> | 79939 |
| 222263_at | solute carrier family 35, member E1 | <i>SLC35E1</i> | 79939 |
| 215169_at | solute carrier family 35, member E2 | <i>SLC35E2</i> | 728661 |
| 218988_at | solute carrier family 35, member E3 | <i>SLC35E3</i> | 55508 |
| 228060_at | solute carrier family 35, member F1 | <i>SLC35F1</i> | 222553 |
| 220123_at | solute carrier family 35, member F5 | <i>SLC35F5</i> | 80255 |
| 234978_at | solute carrier family 36 (proton/amino acid symporter), member 4 | <i>SLC36A4</i> | 120103 |
| 218928_s_at | solute carrier family 37 (glycerol-3-phosphate transporter), member 1 | <i>SLC37A1</i> | 54020 |
| 223304_at | solute carrier family 37 (glycerol-3-phosphate transporter), member 3 | <i>SLC37A3</i> | 84255 |
| 224579_at | solute carrier family 38, member 1 | <i>SLC38A1</i> | 81539 |
| 218237_s_at | solute carrier family 38, member 1 | <i>SLC38A1</i> | 81539 |
| 220786_s_at | solute carrier family 38, member 4 | <i>SLC38A4</i> | 55089 |
| 214830_at | solute carrier family 38, member 6 | <i>SLC38A6</i> | 145389 |
| 225295_at | solute carrier family 39 (zinc transporter), member 10 | <i>SLC39A10</i> | 57181 |
| 227046_at | solute carrier family 39 (metal ion transporter), member 11 | <i>SLC39A11</i> | 201266 |
| 202088_at | solute carrier family 39 (zinc transporter), member 6 | <i>SLC39A6</i> | 25800 |
| 1555460_a_at | solute carrier family 39 (zinc transporter), member 6 | <i>SLC39A6</i> | 25800 |
| 202667_s_at | solute carrier family 39 (zinc transporter), member 7 | <i>SLC39A7</i> | 7922 |

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| 216504_s_at | solute carrier family 39 (zinc transporter), member 8 | SLC39A8 | 64116 |
| 216009_at | solute carrier family 39 (zinc transporter), member 9 | SLC39A9 | 55334 |
| 205799_s_at | solute carrier family 3 (cystine, dibasic and neutral amino acid transporters, acti | SLC3A1 | 6519 |
| 200924_s_at | solute carrier family 3 (activators of dibasic and neutral amino acid transport), n | SLC3A2 | 442497 /// t |
| 223044_at | solute carrier family 40 (iron-regulated transporter), member 1 | SLC40A1 | 30061 |
| 233123_at | Solute carrier family 40 (iron-regulated transporter), member 1 | SLC40A1 | 30061 |
| 210692_s_at | solute carrier family 43, member 3 | SLC43A3 | 29015 |
| 213113_s_at | solute carrier family 43, member 3 | SLC43A3 | 29015 |
| 224595_at | solute carrier family 44, member 1 | SLC44A1 | 23446 |
| 224596_at | solute carrier family 44, member 1 | SLC44A1 | 23446 |
| 228485_s_at | solute carrier family 44, member 1 | SLC44A1 | 23446 |
| 225175_s_at | solute carrier family 44, member 2 | SLC44A2 | 57153 |
| 224609_at | solute carrier family 44, member 2 | SLC44A2 | 57153 |
| 235763_at | solute carrier family 44, member 5 | SLC44A5 | 204962 |
| 225597_at | solute carrier family 45, member 4 | SLC45A4 | 57210 |
| 1558201_s_at | solute carrier family 4 (anion exchanger), member 1, adaptor protein | SLC4A1AP | 22950 |
| 218682_s_at | solute carrier family 4 (anion exchanger), member 1, adaptor protein | SLC4A1AP | 22950 |
| 202111_at | solute carrier family 4, anion exchanger, member 2 (erythrocyte membrane pro | SLC4A2 | 6522 |
| 210739_x_at | solute carrier family 4, sodium bicarbonate cotransporter, member 4 | SLC4A4 | 8671 |
| 1554027_a_at | solute carrier family 4, sodium bicarbonate cotransporter, member 4 | SLC4A4 | 8671 |
| 211494_s_at | solute carrier family 4, sodium bicarbonate cotransporter, member 4 | SLC4A4 | 8671 |
| 203908_at | solute carrier family 4, sodium bicarbonate cotransporter, member 4 | SLC4A4 | 8671 |
| 221723_s_at | solute carrier family 4, sodium bicarbonate cotransporter, member 5 | SLC4A5 | 57835 |
| 209884_s_at | solute carrier family 4, sodium bicarbonate cotransporter, member 7 | SLC4A7 | 9497 |
| 210286_s_at | solute carrier family 4, sodium bicarbonate cotransporter, member 7 | SLC4A7 | 9497 |
| 207056_s_at | solute carrier family 4, sodium bicarbonate cotransporter, member 8 | SLC4A8 | 9498 |
| 213167_s_at | solute carrier family 5 (inositol transporters), member 3 | SLC5A3 | 6526 |
| 212944_at | solute carrier family 5 (inositol transporters), member 3 | SLC5A3 | 6526 |
| 232378_at | solute carrier family 5 (sodium/glucose cotransporter), member 9 | SLC5A9 | 200010 |
| 239352_at | solute carrier family 6, member 15 | SLC6A15 | 55117 |
| 1569940_at | Solute carrier family 6, member 16 | SLC6A16 | 28968 |
| 205921_s_at | solute carrier family 6 (neurotransmitter transporter, taurine), member 6 | SLC6A6 | 6533 |
| 228754_at | solute carrier family 6 (neurotransmitter transporter, taurine), member 6 | SLC6A6 | 6533 |
| 205920_at | solute carrier family 6 (neurotransmitter transporter, taurine), member 6 | SLC6A6 | 6533 |
| 211030_s_at | solute carrier family 6 (neurotransmitter transporter, taurine), member 6 | SLC6A6 | 6533 |
| 212295_s_at | solute carrier family 7 (cationic amino acid transporter, y+ system), member 1 | SLC7A1 | 6541 |
| 217678_at | solute carrier family 7, (cationic amino acid transporter, y+ system) member 11 | SLC7A11 | 23657 |
| 209921_at | solute carrier family 7, (cationic amino acid transporter, y+ system) member 11 | SLC7A11 | 23657 |
| 207528_s_at | solute carrier family 7, (cationic amino acid transporter, y+ system) member 11 | SLC7A11 | 23657 |
| 201195_s_at | solute carrier family 7 (cationic amino acid transporter, y+ system), member 5 | SLC7A5 | 8140 |
| 203579_s_at | solute carrier family 7 (cationic amino acid transporter, y+ system), member 6 | SLC7A6 | 9057 |
| 203580_s_at | solute carrier family 7 (cationic amino acid transporter, y+ system), member 6 | SLC7A6 | 9057 |
| 229153_at | solute carrier family 7, member 6 opposite strand | SLC7A6OS | 84138 |
| 204588_s_at | solute carrier family 7 (cationic amino acid transporter, y+ system), member 7 | SLC7A7 | 9056 |
| 216092_s_at | solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 | SLC7A8 | 23428 |
| 1565306_a_at | solute carrier family 8 (sodium/calcium exchanger), member 1 | SLC8A1 | 6546 |
| 235518_at | solute carrier family 8 (sodium/calcium exchanger), member 1 | SLC8A1 | 6546 |
| 207308_at | solute carrier organic anion transporter family, member 1A2 | SLCO1A2 | 6579 |
| 210366_at | solute carrier organic anion transporter family, member 1B1 | SLCO1B1 | 10599 /// 2f |
| 219911_s_at | solute carrier organic anion transporter family, member 4A1 | SLCO4A1 | 100134295 , |
| 222071_s_at | solute carrier organic anion transporter family, member 4C1 | SLCO4C1 | 353189 |
| 219885_at | schlafen family member 12 | SLFN12 | 55106 |
| 1558217_at | schlafen family member 13 | SLFN13 | 146857 |
| 226725_at | Schlafen family member 5 | SLFN5 | --- |
| 238430_x_at | schlafen family member 5 | SLFN5 | 162394 |
| 229045_at | selectin ligand interactor cytoplasmic-1 | SLIC1 | 124460 |
| 1563641_a_at | selectin ligand interactor cytoplasmic-1 | SLIC1 | 124460 |
| 235976_at | SLIT and NTRK-like family, member 6 | SLITRK6 | 84189 |
| 232481_s_at | SLIT and NTRK-like family, member 6 | SLITRK6 | 84189 |
| 232176_at | SLIT and NTRK-like family, member 6 | SLITRK6 | 84189 |
| 222924_at | sarcolemma associated protein | SLMAP | 7871 |
| 225243_s_at | sarcolemma associated protein | SLMAP | 7871 |
| 203021_at | secretory leukocyte peptidase inhibitor | SLPI | 6590 |

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|--------------|--|-------------------------------|--------------|
| 227990_at | SLU7 splicing factor homolog (<i>S. cerevisiae</i>) | <i>SLU7</i> | 10569 |
| 231718_at | SLU7 splicing factor homolog (<i>S. cerevisiae</i>) | <i>SLU7</i> | 10569 |
| 214850_at | Glucuronidase, beta pseudogene | <i>SMA4</i> | 11039 |
| 206565_x_at | glucuronidase, beta pseudogene | <i>SMA4</i> | 11039 |
| 238446_at | Glucuronidase, beta pseudogene | <i>SMA4</i> | 11039 |
| 215043_s_at | glucuronidase, beta pseudogene | <i>SMA4</i> /// <i>SMA5</i> | 11039 /// 1: |
| 226563_at | SMAD family member 2 | <i>SMAD2</i> | 4087 |
| 203076_s_at | SMAD family member 2 | <i>SMAD2</i> | 4087 |
| 205397_x_at | SMAD family member 3 | <i>SMAD3</i> | 4088 |
| 205398_s_at | SMAD family member 3 | <i>SMAD3</i> | 4088 |
| 205396_at | SMAD family member 3 | <i>SMAD3</i> | 4088 |
| 1565702_at | SMAD family member 4 | <i>SMAD4</i> | 4089 |
| 235451_at | SMAD family member 5 | <i>SMAD5</i> | 4090 |
| 218137_s_at | stromal membrane-associated protein 1 | <i>SMAP1</i> | 60682 |
| 225282_at | stromal membrane-associated protein 1-like | <i>SMAP1L</i> | 64744 |
| 212520_s_at | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, su | <i>SMARCA4</i> | 6597 |
| 202303_x_at | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, su | <i>SMARCA5</i> | 8467 |
| 212167_s_at | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, su | <i>SMARCB1</i> | 6598 |
| 201074_at | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, su | <i>SMARCC1</i> | 6599 |
| 203183_s_at | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, su | <i>SMARCD1</i> | 6602 |
| 211988_at | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, su | <i>SMARCE1</i> | 6605 |
| 213253_at | structural maintenance of chromosomes 2 | <i>SMC2</i> | 10592 |
| 218781_at | structural maintenance of chromosomes 6 | <i>SMC6</i> | 79677 |
| 212577_at | structural maintenance of chromosomes flexible hinge domain containing 1 | <i>SMCHD1</i> | 23347 |
| 241620_at | structural maintenance of chromosomes flexible hinge domain containing 1 | <i>SMCHD1</i> | 23347 |
| 221516_s_at | Smith-Magenis syndrome chromosome region, candidate 7-like | <i>SMCR7L</i> | 54471 |
| 204593_s_at | Smith-Magenis syndrome chromosome region, candidate 7-like | <i>SMCR7L</i> | 54471 |
| 224319_s_at | Smith-Magenis syndrome chromosome region, candidate 7-like | <i>SMCR7L</i> | 54471 |
| 227305_s_at | Smith-Magenis syndrome chromosome region, candidate 8 | <i>SMCR8</i> | 140775 |
| 227304_at | Smith-Magenis syndrome chromosome region, candidate 8 | <i>SMCR8</i> | 140775 |
| 222270_at | SMEK homolog 2, suppressor of mek1 (<i>Dictyostelium</i>) | <i>SMEK2</i> | 57223 |
| 233759_s_at | SMEK homolog 2, suppressor of mek1 (<i>Dictyostelium</i>) | <i>SMEK2</i> | 57223 |
| 210057_at | PI-3-kinase-related kinase SMG-1 | <i>SMG1</i> | 23049 |
| 224842_at | PI-3-kinase-related kinase SMG-1 | <i>SMG1</i> | 23049 |
| 200071_at | survival motor neuron domain containing 1 | <i>SMNDC1</i> | 10285 |
| 205622_at | sphingomyelin phosphodiesterase 2, neutral membrane (neutral sphingomyelin | <i>SMPD2</i> | 6610 |
| 212921_at | SET and MYND domain containing 2 | <i>SMYD2</i> | 56950 |
| 213139_at | snail homolog 2 (<i>Drosophila</i>) | <i>SNAI2</i> | 6591 |
| 214544_s_at | synaptosomal-associated protein, 23kDa | <i>SNAP23</i> | 8773 |
| 218327_s_at | synaptosomal-associated protein, 29kDa | <i>SNAP29</i> | 9342 |
| 222597_at | synaptosomal-associated protein, 29kDa | <i>SNAP29</i> | 9342 |
| 205443_at | small nuclear RNA activating complex, polypeptide 1, 43kDa | <i>SNAPC1</i> | 6617 |
| 1554093_a_at | small nuclear RNA activating complex, polypeptide 5, 19kDa | <i>SNAPC5</i> | 10302 |
| 208078_s_at | SNF1-like kinase | <i>SNF1LK</i> | 150094 |
| 1564906_at | small nucleolar RNA host gene (non-protein coding) 4 | <i>SNHG4</i> | 724102 |
| 218033_s_at | stannin | <i>SNN</i> | 8303 |
| 218032_at | stannin | <i>SNN</i> | 8303 |
| 1566402_at | small nucleolar RNA, H/ACA box 68 | <i>SNORA68</i> | 26780 |
| 209481_at | SNF related kinase | <i>SNRK</i> | 54861 |
| 242146_at | Small nuclear ribonucleoprotein polypeptide A' | <i>SNRPA1</i> | 6627 |
| 202691_at | small nuclear ribonucleoprotein D1 polypeptide 16kDa | <i>SNRPD1</i> | 6632 |
| 202690_s_at | small nuclear ribonucleoprotein D1 polypeptide 16kDa | <i>SNRPD1</i> | 6632 |
| 203316_s_at | small nuclear ribonucleoprotein polypeptide E | <i>SNRPE</i> | 6635 |
| 203832_at | small nuclear ribonucleoprotein polypeptide F | <i>SNRPF</i> | 6636 |
| 1559545_at | Small nuclear ribonucleoprotein polypeptide N | <i>SNRPN</i> | 6638 |
| 228370_at | Small nuclear ribonucleoprotein polypeptide N | <i>SNRPN</i> | 6638 |
| 1559343_at | Small nuclear ribonucleoprotein polypeptide N | <i>SNRPN</i> | 6638 |
| 201522_x_at | small nuclear ribonucleoprotein polypeptide N /// SNRPN upstream reading frar | <i>SNRPN</i> /// <i>SNURF</i> | 6638 /// 89: |
| 227312_at | syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component | <i>SNTB2</i> | 6645 |
| 205315_s_at | syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component | <i>SNTB2</i> | 6645 |
| 226685_at | syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component | <i>SNTB2</i> | 6645 |
| 220405_at | syntrophin, gamma 1 | <i>SNTG1</i> | 100127998, |
| 234919_s_at | syntrophin, gamma 1 | <i>SNTG1</i> | 54212 |

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|--------------|---|---------------------------------|--------|
| 201575_at | SNW domain containing 1 | SNW1 | 22938 |
| 215424_s_at | SNW domain containing 1 | SNW1 | 22938 |
| 201716_at | sorting nexin 1 | SNX1 | 6642 |
| 220140_s_at | sorting nexin 11 | SNX11 | 29916 |
| 225101_s_at | sorting nexin 14 | SNX14 | 57231 |
| 200991_s_at | sorting nexin 17 | SNX17 | 9784 |
| 230509_at | sorting nexin 22 | SNX22 | 79856 |
| 221006_s_at | sorting nexin family member 27 | SNX27 | 81609 |
| 221498_at | sorting nexin family member 27 | SNX27 | 81609 |
| 213545_x_at | sorting nexin 3 | SNX3 | 8724 |
| 200067_x_at | sorting nexin 3 | SNX3 | 8724 |
| 208781_x_at | sorting nexin 3 | SNX3 | 8724 |
| 210648_x_at | sorting nexin 3 | SNX3 | 8724 |
| 212652_s_at | sorting nexin 4 | SNX4 | 8723 |
| 205573_s_at | sorting nexin 7 | SNX7 | 51375 |
| 223241_at | sorting nexin 8 | SNX8 | 29886 |
| 228479_at | sterol O-acyltransferase (acyl-Coenzyme A: cholesterol acyltransferase) 1 | SOAT1 | --- |
| 244661_at | sterol O-acyltransferase (acyl-Coenzyme A: cholesterol acyltransferase) 1 | SOAT1 | --- |
| 221561_at | sterol O-acyltransferase (acyl-Coenzyme A: cholesterol acyltransferase) 1 | SOAT1 | 6646 |
| 218974_at | sine oculis binding protein homolog (Drosophila) | SOBP | 55084 |
| 203373_at | suppressor of cytokine signaling 2 | SOCS2 | 8835 |
| 227697_at | suppressor of cytokine signaling 3 | SOCS3 | 9021 |
| 206359_at | suppressor of cytokine signaling 3 | SOCS3 | 9021 |
| 206360_s_at | suppressor of cytokine signaling 3 | SOCS3 | 9021 |
| 1552792_at | suppressor of cytokine signaling 4 | SOCS4 | 122809 |
| 209647_s_at | suppressor of cytokine signaling 5 | SOCS5 | 9655 |
| 208127_s_at | suppressor of cytokine signaling 5 | SOCS5 | 9655 |
| 200642_at | superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult)) | SOD1 | 6647 |
| 215223_s_at | superoxide dismutase 2, mitochondrial | SOD2 | 6648 |
| 216841_s_at | superoxide dismutase 2, mitochondrial | SOD2 | 6648 |
| 215078_at | superoxide dismutase 2, mitochondrial | SOD2 | 6648 |
| 1570153_at | spermatogenesis and oogenesis specific basic helix-loop-helix 2 | SOHLH2 | 54937 |
| 220129_at | spermatogenesis and oogenesis specific basic helix-loop-helix 2 | SOHLH2 | 54937 |
| 201085_s_at | SON DNA binding protein | SON | 6651 |
| 230707_at | sortilin-related receptor, L(DLR class) A repeats-containing | SORL1 | 6653 |
| 212807_s_at | sortilin 1 | SORT1 | 6272 |
| 224818_at | sortilin 1 | SORT1 | 6272 |
| 1557354_at | son of sevenless homolog 1 (Drosophila) | SOS1 | 6654 |
| 230337_at | son of sevenless homolog 1 (Drosophila) | SOS1 | 6654 |
| 217576_x_at | son of sevenless homolog 2 (Drosophila) | SOS2 | 6655 |
| 204432_at | SRY (sex determining region Y)-box 12 | SOX12 | 6666 |
| 207678_s_at | SRY (sex determining region Y)-box 30 | SOX30 | 11063 |
| 201416_at | SRY (sex determining region Y)-box 4 | SOX4 | 6659 |
| 201417_at | SRY (sex determining region Y)-box 4 | SOX4 | 6659 |
| 224760_at | Sp1 transcription factor | SP1 | 6667 |
| 1553685_s_at | Sp1 transcription factor | SP1 | 6667 |
| 224754_at | Sp1 transcription factor | SP1 | 6667 |
| 210985_s_at | SP100 nuclear antigen | SP100 | 6672 |
| 210218_s_at | SP100 nuclear antigen | SP100 | 6672 |
| 208392_x_at | SP110 nuclear body protein | SP110 | 3431 |
| 223980_s_at | SP110 nuclear body protein | SP110 | 3431 |
| 208012_x_at | SP110 nuclear body protein | SP110 | 3431 |
| 209761_s_at | SP110 nuclear body protein | SP110 | 3431 |
| 209762_x_at | SP110 nuclear body protein | SP110 | 3431 |
| 204367_at | Sp2 transcription factor | SP2 | 6668 |
| 229217_at | Sp3 transcription factor | SP3 | 6670 |
| 210117_at | sperm associated antigen 1 | SPAG1 | 6674 |
| 1553582_a_at | sperm associated antigen 11B /// sperm associated antigen 11A | SPAG11A /// SPAG.10407 /// 6674 | |
| 219109_at | sperm associated antigen 16 | SPAG16 | 79582 |
| 219888_at | sperm associated antigen 4 | SPAG4 | 6676 |
| 225339_at | sperm associated antigen 9 | SPAG9 | 9043 |
| 212470_at | sperm associated antigen 9 | SPAG9 | 9043 |
| 206748_s_at | sperm associated antigen 9 | SPAG9 | 9043 |

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|--------------|--|----------|--------------|
| 216972_at | sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida binding) | SPAM1 | 6677 |
| 216989_at | sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida binding) | SPAM1 | 6677 |
| 208045_at | surfactant protein A binding protein | SPAR | --- |
| 225564_at | spermatogenesis associated 13 | SPATA13 | 221178 |
| 214965_at | spermatogenesis associated 2-like | SPATA2L | 124044 |
| 222163_s_at | spermatogenesis associated 5-like 1 | SPATA5L1 | 79029 |
| 217927_at | signal peptidase complex subunit 1 homolog (S. cerevisiae) | SPCS1 | 28972 |
| 201240_s_at | signal peptidase complex subunit 2 homolog (S. cerevisiae) | SPCS2 | 653566 /// 5 |
| 222753_s_at | signal peptidase complex subunit 3 homolog (S. cerevisiae) | SPCS3 | 60559 |
| 214403_x_at | SAM pointed domain containing ets transcription factor | SPDEF | 25803 |
| 244461_at | sperm antigen with calponin homology and coiled-coil domains 1 | SPECC1 | 92521 |
| 212480_at | SPECC1-like | SPECC1L | 23384 |
| 1556058_s_at | spen homolog, transcriptional regulator (Drosophila) | SPEN | 23013 |
| 236600_at | spastic paraplegia 20 (Troyer syndrome) | SPG20 | 23111 |
| 212526_at | spastic paraplegia 20 (Troyer syndrome) | SPG20 | 23111 |
| 215383_x_at | spastic paraplegia 21 (autosomal recessive, Mast syndrome) | SPG21 | 51324 |
| 217827_s_at | spastic paraplegia 21 (autosomal recessive, Mast syndrome) | SPG21 | 51324 |
| 230885_at | spastic paraplegia 7 (pure and complicated autosomal recessive) | SPG7 | 6687 |
| 206272_at | S-phase response (cyclin-related) | SPHAR | 10638 /// 58 |
| 219257_s_at | sphingosine kinase 1 | SPHK1 | 8877 |
| 217813_s_at | spindlin 1 | SPIN1 | 10927 |
| 222431_at | spindlin 1 | SPIN1 | 10927 |
| 1555883_s_at | spindlin family, member 3 | SPIN3 | 169981 |
| 206318_at | serine peptidase inhibitor-like, with Kunitz and WAP domains 1 (eppin) | SPINLW1 | 57119 |
| 210715_s_at | serine peptidase inhibitor, Kunitz type, 2 | SPINT2 | 10653 |
| 1568964_x_at | sialophorin (leukosialin, CD43) | SPN | 6693 |
| 235900_at | spinster homolog 3 (Drosophila) | SPNS3 | 201305 |
| 202524_s_at | sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2 | SPOCK2 | 9806 |
| 206433_s_at | sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 3 | SPOCK3 | 50859 |
| 1554418_s_at | sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 3 | SPOCK3 | 50859 |
| 235342_at | sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 3 | SPOCK3 | 50859 |
| 206434_at | sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 3 | SPOCK3 | 50859 |
| 208927_at | speckle-type POZ protein | SPOP | 8405 |
| 209875_s_at | secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte) | SPP1 | 6696 |
| 226353_at | signal peptide peptidase-like 2A | SPPL2A | 84888 |
| 226837_at | sprouty-related, EVH1 domain containing 1 | SPRED1 | 161742 |
| 235074_at | Sprouty-related, EVH1 domain containing 1 | SPRED1 | 161742 |
| 1552620_at | small proline-rich protein 4 | SPRR4 | 163778 |
| 204011_at | sprouty homolog 2 (Drosophila) | SPRY2 | 10253 |
| 225616_at | SPRY domain containing 4 | SPRYD4 | 283377 |
| 221769_at | splA/ryanodine receptor domain and SOCS box containing 3 | SPSB3 | 90864 |
| 212071_s_at | spectrin, beta, non-erythrocytic 1 | SPTBN1 | 6711 |
| 202277_at | serine palmitoyltransferase, long chain base subunit 1 | SPTLC1 | 10558 |
| 202278_s_at | serine palmitoyltransferase, long chain base subunit 1 | SPTLC1 | 10558 |
| 1554053_at | serine palmitoyltransferase, long chain base subunit 1 | SPTLC1 | 10558 |
| 216202_s_at | serine palmitoyltransferase, long chain base subunit 2 | SPTLC2 | 9517 |
| 220456_at | serine palmitoyltransferase, long chain base subunit 3 | SPTLC3 | 55304 |
| 235440_at | SPT2, Suppressor of Ty, domain containing 1 (S. cerevisiae) | SPTY2D1 | 144108 |
| 229594_at | SPT2, Suppressor of Ty, domain containing 1 (S. cerevisiae) | SPTY2D1 | 144108 |
| 209218_at | squalene epoxidase | SQLE | 6713 |
| 1557352_at | Squalene epoxidase | SQLE | 6713 |
| 217995_at | sulfide quinone reductase-like (yeast) | SQRDL | 58472 |
| 201471_s_at | sequestosome 1 | SQSTM1 | 8878 |
| 213112_s_at | sequestosome 1 | SQSTM1 | 8878 |
| 212061_at | U2-associated SR140 protein | SR140 | 23350 |
| 236431_at | U2-associated SR140 protein | SR140 | 23350 |
| 212060_at | U2-associated SR140 protein | SR140 | 23350 |
| 224864_at | steroid receptor RNA activator 1 | SRA1 | 10011 |
| 224130_s_at | steroid receptor RNA activator 1 | SRA1 | 10011 |
| 219055_at | S1 RNA binding domain 1 | SRBD1 | 55133 |
| 204675_at | steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-d | SRD5A1 | 6715 |
| 241961_at | steroid 5 alpha-reductase 2-like 2 | SRD5A2L2 | 253017 |
| 202308_at | sterol regulatory element binding transcription factor 1 | SREBF1 | 6720 |

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|--------------|--|-------------------|--------|
| 201247_at | sterol regulatory element binding transcription factor 2 | <i>SREBF2</i> | 6721 |
| 202401_s_at | serum response factor (c-fos serum response element-binding transcription fact | <i>SRF</i> | 6722 |
| 228628_at | SLIT-ROBO Rho GTPase activating protein 2 pseudogene 1 | <i>SRGAP2P1</i> | 653464 |
| 232095_at | SLIT-ROBO Rho GTPase activating protein 2 pseudogene 1 | <i>SRGAP2P1</i> | --- |
| 229067_at | SLIT-ROBO Rho GTPase activating protein 2 pseudogene 1 | <i>SRGAP2P1</i> | 653464 |
| 1568957_x_at | SLIT-ROBO Rho GTPase activating protein 2 pseudogene 1 | <i>SRGAP2P1</i> | 653464 |
| 208920_at | sorcin | <i>SRI</i> | 6717 |
| 203605_at | signal recognition particle 54kDa | <i>SRP54</i> | 6729 |
| 203182_s_at | SFRS protein kinase 2 | <i>SRPK2</i> | 6733 |
| 203181_x_at | SFRS protein kinase 2 | <i>SRPK2</i> | 6733 |
| 1558254_s_at | SFRS protein kinase 2 | <i>SRPK2</i> | 6733 |
| 200918_s_at | signal recognition particle receptor ('docking protein') | <i>SRPR</i> | 6734 |
| 200917_s_at | signal recognition particle receptor ('docking protein') | <i>SRPR</i> | 6734 |
| 219205_at | serine racemase | <i>SRR</i> | 63826 |
| 201225_s_at | serine/arginine repetitive matrix 1 | <i>SRRM1</i> | 10250 |
| 201138_s_at | Sjogren syndrome antigen B (autoantigen La) | <i>SSB</i> | 6741 |
| 201894_s_at | signal sequence receptor, alpha (translocon-associated protein alpha) | <i>SSR1</i> | 6745 |
| 200891_s_at | signal sequence receptor, alpha (translocon-associated protein alpha) | <i>SSR1</i> | 6745 |
| 200889_s_at | signal sequence receptor, alpha (translocon-associated protein alpha) | <i>SSR1</i> | 6745 |
| 200652_at | signal sequence receptor, beta (translocon-associated protein beta) | <i>SSR2</i> | 6746 |
| 223052_x_at | SSU72 RNA polymerase II CTD phosphatase homolog (S. cerevisiae) | <i>SSU72</i> | --- |
| 203016_s_at | synovial sarcoma, X breakpoint 2 interacting protein | <i>SSX2IP</i> | 117178 |
| 208667_s_at | suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein) | <i>ST13</i> | 6767 |
| 208322_s_at | ST3 beta-galactoside alpha-2,3-sialyltransferase 1 | <i>ST3GAL1</i> | 6482 |
| 203217_s_at | ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | <i>ST3GAL5</i> | 8869 |
| 213355_at | ST3 beta-galactoside alpha-2,3-sialyltransferase 6 | <i>ST3GAL6</i> | 10402 |
| 210942_s_at | ST3 beta-galactoside alpha-2,3-sialyltransferase 6 | <i>ST3GAL6</i> | 10402 |
| 201998_at | ST6 beta-galactosamide alpha-2,6-sialyltransferase 1 | <i>ST6GAL1</i> | 6480 |
| 1555123_at | ST6 beta-galactosamide alpha-2,6-sialyltransferase 2 | <i>ST6GAL2</i> | 84620 |
| 204542_at | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminic | <i>ST6GALNAC2</i> | 10610 |
| 235334_at | ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminic | <i>ST6GALNAC3</i> | 256435 |
| 242943_at | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4 | <i>ST8SIA4</i> | 7903 |
| 230836_at | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4 | <i>ST8SIA4</i> | 7903 |
| 230261_at | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4 | <i>ST8SIA4</i> | 7903 |
| 206925_at | ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4 | <i>ST8SIA4</i> | 7903 |
| 209022_at | stromal antigen 2 | <i>STAG2</i> | 10735 |
| 207983_s_at | stromal antigen 2 | <i>STAG2</i> | 10735 |
| 209023_s_at | stromal antigen 2 | <i>STAG2</i> | 10735 |
| 209649_at | signal transducing adaptor molecule (SH3 domain and ITAM motif) 2 | <i>STAM2</i> | 10254 |
| 227607_at | STAM binding protein-like 1 | <i>STAMBPL1</i> | 57559 |
| 232322_x_at | StAR-related lipid transfer (START) domain containing 10 | <i>STARD10</i> | 10809 |
| 223103_at | StAR-related lipid transfer (START) domain containing 10 | <i>STARD10</i> | 10809 |
| 226390_at | StAR-related lipid transfer (START) domain containing 4 | <i>STARD4</i> | 134429 |
| 200028_s_at | StAR-related lipid transfer (START) domain containing 7 | <i>STARD7</i> | 56910 |
| 225636_at | signal transducer and activator of transcription 2, 113kDa | <i>STAT2</i> | 6773 |
| 205170_at | signal transducer and activator of transcription 2, 113kDa | <i>STAT2</i> | 6773 |
| 225289_at | signal transducer and activator of transcription 3 (acute-phase response factor) | <i>STAT3</i> | 6774 |
| 208991_at | signal transducer and activator of transcription 3 (acute-phase response factor) | <i>STAT3</i> | 6774 |
| 208992_s_at | signal transducer and activator of transcription 3 (acute-phase response factor) | <i>STAT3</i> | 6774 |
| 212550_at | signal transducer and activator of transcription 5B | <i>STAT5B</i> | 6777 |
| 205026_at | signal transducer and activator of transcription 5B | <i>STAT5B</i> | 6777 |
| 1555088_x_at | signal transducer and activator of transcription 5B | <i>STAT5B</i> | 6777 |
| 201331_s_at | signal transducer and activator of transcription 6, interleukin-4 induced | <i>STAT6</i> | 6778 |
| 206835_at | statherin | <i>STATH</i> | 6779 |
| 207320_x_at | staufer, RNA binding protein, homolog 1 (Drosophila) | <i>STAU1</i> | 6780 |
| 213037_x_at | staufer, RNA binding protein, homolog 1 (Drosophila) | <i>STAU1</i> | 6780 |
| 208948_s_at | staufer, RNA binding protein, homolog 1 (Drosophila) | <i>STAU1</i> | 6780 |
| 204226_at | staufer, RNA binding protein, homolog 2 (Drosophila) | <i>STAU2</i> | 27067 |
| 202558_s_at | stress 70 protein chaperone, microsome-associated, 60kDa | <i>STCH</i> | 6782 |
| 202557_at | stress 70 protein chaperone, microsome-associated, 60kDa | <i>STCH</i> | 6782 |
| 225987_at | STEAP family member 4 | <i>STEAP4</i> | 79689 |
| 205339_at | SCL/TAL1 interrupting locus | <i>STIL</i> | 6491 |
| 202764_at | stromal interaction molecule 1 | <i>STIM1</i> | 6786 |

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|--------------|---|---------------------------------|--------------|
| 225246_at | stromal interaction molecule 2 | <i>STIM2</i> | 57620 |
| 234140_s_at | stromal interaction molecule 2 | <i>STIM2</i> | 57620 |
| 225250_at | stromal interaction molecule 2 | <i>STIM2</i> | 57620 |
| 40420_at | serine/threonine kinase 10 | <i>STK10</i> | 6793 |
| 203047_at | serine/threonine kinase 10 | <i>STK10</i> | 6793 |
| 231017_at | serine/threonine kinase 11 | <i>STK11</i> | 6794 |
| 205214_at | serine/threonine kinase 17b | <i>STK17B</i> | 9262 |
| 204090_at | serine/threonine kinase 19 | <i>STK19</i> | 8859 |
| 228086_at | serine/threonine kinase 33 | <i>STK33</i> | 65975 |
| 202786_at | serine threonine kinase 39 (STE20/SPS1 homolog, yeast) | <i>STK39</i> | 27347 |
| 211085_s_at | serine/threonine kinase 4 | <i>STK4</i> | 6789 |
| 223852_s_at | serine/threonine kinase 40 | <i>STK40</i> | 83931 |
| 222557_at | stathmin-like 3 | <i>STMN3</i> | 50861 |
| 201061_s_at | stomatin | <i>STOM</i> | 2040 |
| 201060_x_at | stomatin | <i>STOM</i> | 2040 |
| 226822_at | storkhead box 2 | <i>STOX2</i> | 56977 |
| 229513_at | Spermatid perinuclear RNA binding protein | <i>STRBP</i> | 55342 |
| 205520_at | striatin, calmodulin binding protein | <i>STRN</i> | 6801 |
| 217903_at | striatin, calmodulin binding protein 4 | <i>STRN4</i> | 29888 |
| 210190_at | syntaxin 11 | <i>STX11</i> | 8676 |
| 209238_at | syntaxin 3 | <i>STX3</i> | 6809 |
| 216985_s_at | syntaxin 3 | <i>STX3</i> | 6809 |
| 203530_s_at | syntaxin 4 | <i>STX4</i> | 6810 |
| 229395_at | syntaxin 4 | <i>STX4</i> | 6810 |
| 203330_s_at | syntaxin 5 | <i>STX5</i> | 6811 |
| 212800_at | syntaxin 6 | <i>STX6</i> | 10228 |
| 204690_at | syntaxin 8 | <i>STX8</i> | 9482 |
| 209367_at | syntaxin binding protein 2 | <i>STXBP2</i> | 6813 |
| 203310_at | syntaxin binding protein 3 | <i>STXBP3</i> | 6814 |
| 226794_at | syntaxin binding protein 5 (tomosyn) | <i>STXBPS</i> | 134957 |
| 1568896_at | syntaxin binding protein 5-like | <i>STXBPSL</i> | 9515 |
| 215518_at | syntaxin binding protein 5-like | <i>STXBPSL</i> | 9515 |
| 221696_s_at | serine/threonine/tyrosine kinase 1 | <i>STYK1</i> | 55359 |
| 230370_x_at | serine/threonine/tyrosine interacting-like 1 | <i>STYXL1</i> | 51657 |
| 221727_at | SUB1 homolog (<i>S. cerevisiae</i>) | <i>SUB1</i> | 10923 |
| 237784_at | SUB1 homolog (<i>S. cerevisiae</i>) | <i>SUB1</i> | 10923 |
| 202930_s_at | succinate-CoA ligase, ADP-forming, beta subunit | <i>SUCLA2</i> | 8803 |
| 214835_s_at | succinate-CoA ligase, GDP-forming, beta subunit | <i>SUCLG2</i> | 8801 |
| 215772_x_at | succinate-CoA ligase, GDP-forming, beta subunit | <i>SUCLG2</i> | 8801 |
| 223939_at | succinate receptor 1 | <i>SUCNR1</i> | 56670 |
| 224309_s_at | SGT1, suppressor of G2 allele of SKP1 (<i>S. cerevisiae</i>) | <i>SUGT1</i> | 10910 |
| 223329_x_at | SGT1, suppressor of G2 allele of SKP1 (<i>S. cerevisiae</i>) | <i>SUGT1</i> | 10910 |
| 223330_s_at | SGT1, suppressor of G2 allele of SKP1 (<i>S. cerevisiae</i>) | <i>SUGT1</i> | 10910 |
| 1554143_a_at | SGT1, suppressor of G2 allele of SKP1 like 1 (<i>S. cerevisiae</i>) | <i>SUGT1L1</i> | 100130423 , |
| 1568951_at | suppressor of hairy wing homolog 4 (<i>Drosophila</i>) | <i>SUHW4</i> | 54816 |
| 221213_s_at | suppressor of hairy wing homolog 4 (<i>Drosophila</i>) | <i>SUHW4</i> | 54816 |
| 212353_at | sulfatase 1 | <i>SULF1</i> | 23213 |
| 233555_s_at | sulfatase 2 | <i>SULF2</i> | 55959 |
| 224724_at | sulfatase 2 | <i>SULF2</i> | 55959 |
| 215299_x_at | sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1 | <i>SULT1A1</i> | 6817 |
| 203615_x_at | sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1 | <i>SULT1A1</i> | 6817 |
| 238995_at | Sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1 | <i>SULT1A1</i> | 6817 |
| 211385_x_at | sulfotransferase family, cytosolic, 1A, phenol-preferring, member 2 | <i>SULT1A2</i> | 6799 |
| 210580_x_at | sulfotransferase family, cytosolic, 1A, phenol-preferring, member 3 /// sulfotran | <i>SULT1A3</i> /// <i>SULT1</i> | 445329 /// t |
| 207601_at | sulfotransferase family, cytosolic, 1B, member 1 | <i>SULT1B1</i> | 27284 |
| 222940_at | sulfotransferase family 1E, estrogen-preferring, member 1 | <i>SULT1E1</i> | 6783 |
| 226850_at | sulfatase modifying factor 1 | <i>SUMF1</i> | 285362 |
| 200740_s_at | SMT3 suppressor of mif two 3 homolog 3 (<i>S. cerevisiae</i>) | <i>SUMO3</i> | 6612 |
| 217815_at | suppressor of Ty 16 homolog (<i>S. cerevisiae</i>) | <i>SUPT16H</i> | 11198 |
| 201483_s_at | suppressor of Ty 4 homolog 1 (<i>S. cerevisiae</i>) | <i>SUPT4H1</i> | 6827 |
| 208420_x_at | suppressor of Ty 6 homolog (<i>S. cerevisiae</i>) | <i>SUPT6H</i> | 6830 |
| 208831_x_at | suppressor of Ty 6 homolog (<i>S. cerevisiae</i>) | <i>SUPT6H</i> | 6830 |
| 201837_s_at | suppressor of Ty 7 (<i>S. cerevisiae</i>)-like | <i>SUPT7L</i> | 9913 |

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|--------------|---|-----------------|--------|
| 217646_at | surfeit 1 | <i>SURF1</i> | 6834 |
| 225038_s_at | surfeit 6 | <i>SURF6</i> | 6838 |
| 226264_at | sushi domain containing 1 | <i>SUSD1</i> | 64420 |
| 222566_at | suppressor of variegation 4-20 homolog 1 (Drosophila) | <i>SUV420H1</i> | 51111 |
| 218242_s_at | suppressor of variegation 4-20 homolog 1 (Drosophila) | <i>SUV420H1</i> | 51111 |
| 1566190_at | Suppressor of zeste 12 homolog (Drosophila) | <i>SUZ12</i> | 23512 |
| 212287_at | suppressor of zeste 12 homolog (Drosophila) | <i>SUZ12</i> | 23512 |
| 216086_at | synaptic vesicle glycoprotein 2C | <i>SV2C</i> | 22987 |
| 236927_at | sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1 | <i>SVEP1</i> | 79987 |
| 202565_s_at | supervillin | <i>SVIL</i> | 6840 |
| 225154_at | synapse associated protein 1, SAP47 homolog (Drosophila) | <i>SYAP1</i> | 94056 |
| 202829_s_at | synaptobrevin-like 1 | <i>SYBL1</i> | 6845 |
| 216917_s_at | synaptonemal complex protein 1 | <i>SYCP1</i> | 6847 |
| 206740_x_at | synaptonemal complex protein 1 | <i>SYCP1</i> | 6847 |
| 206546_at | synaptonemal complex protein 2 | <i>SYCP2</i> | 10388 |
| 202553_s_at | SYF2 homolog, RNA splicing factor (<i>S. cerevisiae</i>) | <i>SYF2</i> | 25949 |
| 207540_s_at | spleen tyrosine kinase | <i>SYK</i> | 6850 |
| 226068_at | spleen tyrosine kinase | <i>SYK</i> | 6850 |
| 244023_at | spleen tyrosine kinase | <i>SYK</i> | 6850 |
| 237333_at | Syncoilin, intermediate filament 1 | <i>SYNC1</i> | 81493 |
| 217833_at | synaptotagmin binding, cytoplasmic RNA interacting protein | <i>SYNCRIP</i> | 10492 |
| 236146_at | synaptotagmin binding, cytoplasmic RNA interacting protein | <i>SYNCRIP</i> | 10492 |
| 217834_s_at | synaptotagmin binding, cytoplasmic RNA interacting protein | <i>SYNCRIP</i> | 10492 |
| 209025_s_at | synaptotagmin binding, cytoplasmic RNA interacting protein | <i>SYNCRIP</i> | 10492 |
| 209447_at | spectrin repeat containing, nuclear envelope 1 | <i>SYNE1</i> | 23345 |
| 242774_at | spectrin repeat containing, nuclear envelope 2 | <i>SYNE2</i> | 23224 |
| 202761_s_at | spectrin repeat containing, nuclear envelope 2 | <i>SYNE2</i> | 23224 |
| 204287_at | synaptogyrin 1 | <i>SYNGR1</i> | 9145 |
| 201079_at | synaptogyrin 2 | <i>SYNGR2</i> | 9144 |
| 240257_at | synaptojanin 2 | <i>SYNJ2</i> | 8871 |
| 219156_at | synaptojanin 2 binding protein | <i>SYNJ2BP</i> | 55333 |
| 225721_at | synaptopodin 2 | <i>SYNPO2</i> | 171024 |
| 227662_at | synaptopodin 2 | <i>SYNPO2</i> | 171024 |
| 225895_at | synaptopodin 2 | <i>SYNPO2</i> | 171024 |
| 201259_s_at | synaptophysin-like 1 | <i>SYPL1</i> | 6856 |
| 224668_at | SYS1 Golgi-localized integral membrane protein homolog (<i>S. cerevisiae</i>) | <i>SYS1</i> | 90196 |
| 224670_at | SYS1 Golgi-localized integral membrane protein homolog (<i>S. cerevisiae</i>) | <i>SYS1</i> | 90196 |
| 209197_at | synaptotagmin XI | <i>SYT11</i> | 23208 |
| 226086_at | synaptotagmin XIII | <i>SYT13</i> | 57586 |
| 1553654_at | synaptotagmin XIV | <i>SYT14</i> | 255928 |
| 244227_at | synaptotagmin VI | <i>SYT6</i> | 148281 |
| 227134_at | synaptotagmin-like 1 | <i>SYTL1</i> | 84958 |
| 232914_s_at | synaptotagmin-like 2 | <i>SYTL2</i> | 54843 |
| 238423_at | synaptotagmin-like 3 | <i>SYTL3</i> | 94120 |
| 1553066_at | trace amine associated receptor 9 | <i>TAAR9</i> | 134860 |
| 206552_s_at | tachykinin, precursor 1 (substance K, substance P, neurokinin 1, neurokinin 2, ne | <i>TAC1</i> | 6863 |
| 218308_at | transforming, acidic coiled-coil containing protein 3 | <i>TACC3</i> | 10460 |
| 225455_at | transcriptional adaptor 1 (HFI1 homolog, yeast)-like | <i>TADA1L</i> | 117143 |
| 215273_s_at | transcriptional adaptor 3 (NGG1 homolog, yeast)-like | <i>TADA3L</i> | 10474 |
| 200055_at | TAF10 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 30k | <i>TAF10</i> | 6881 |
| 227891_s_at | TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68k | <i>TAF15</i> | 8148 |
| 206613_s_at | TATA box binding protein (TBP)-associated factor, RNA polymerase I, A, 48kDa | <i>TAF1A</i> | 9015 |
| 213090_s_at | TAF4 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 135k | <i>TAF4</i> | 6874 |
| 1553528_a_at | TAF5 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 100k | <i>TAF5</i> | 6877 |
| 210053_at | TAF5 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 100k | <i>TAF5</i> | 6877 |
| 1554415_at | TAF5-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated fact | <i>TAF5L</i> | 27097 |
| 213654_at | TAF5-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated fact | <i>TAF5L</i> | 27097 |
| 201023_at | TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 55k | <i>TAF7</i> | 6879 |
| 221616_s_at | TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31k | <i>TAF9B</i> | 51616 |
| 221617_at | TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31k | <i>TAF9B</i> | 51616 |
| 228483_s_at | TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31k | <i>TAF9B</i> | 51616 |
| 242388_x_at | T-cell activation GTPase activating protein | <i>TAGAP</i> | --- |
| 1552541_at | T-cell activation GTPase activating protein | <i>TAGAP</i> | 117289 |

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|--------------|---|--------------------|--------------|
| 234050_at | T-cell activation GTPase activating protein | TAGAP | 117289 |
| 229723_at | T-cell activation GTPase activating protein | TAGAP | 117289 |
| 1552542_s_at | T-cell activation GTPase activating protein | TAGAP | 117289 |
| 210978_s_at | transgelin 2 | TAGLN2 | 8407 |
| 200916_at | transgelin 2 | TAGLN2 | 8407 |
| 1561651_s_at | T-cell acute lymphocytic leukemia 1 | TAL1 | 6886 |
| 225308_s_at | tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 | TANC1 | 85461 |
| 234870_at | tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 | TANC1 | 85461 |
| 224952_at | tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2 | TANC2 | 26115 |
| 208425_s_at | tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2 | TANC2 | 26115 |
| 1553042_a_at | T-cell activation NFKB-like protein | TA-NFKBH | 84807 |
| 230052_s_at | T-cell activation NFKB-like protein | TA-NFKBH | 84807 |
| 241889_at | T-cell activation NFKB-like protein | TA-NFKBH | 84807 |
| 243376_at | TRAF family member-associated NFKB activator | TANK | 10010 |
| 209451_at | TRAF family member-associated NFKB activator | TANK | 10010 |
| 207616_s_at | TRAF family member-associated NFKB activator | TANK | 10010 |
| 210458_s_at | TRAF family member-associated NFKB activator | TANK | 10010 |
| 227454_at | TAO kinase 1 | TAOK1 | 57551 |
| 210294_at | TAP binding protein (tapasin) | TAPBP | 6892 |
| 218747_s_at | TAP binding protein-like | TAPBPL | 55080 |
| 218746_at | TAP binding protein-like | TAPBPL | 55080 |
| 202813_at | TAR (HIV-1) RNA binding protein 1 | TARBP1 | 6894 |
| 215806_x_at | T cell receptor gamma constant 2 /// T cell receptor gamma variable 9 /// TCR g | TARP /// TRGC2 /// | 6967 |
| 216920_s_at | T cell receptor gamma constant 2 /// T cell receptor gamma variable 9 /// TCR g | TARP /// TRGC2 /// | 445347 /// t |
| 211144_x_at | T cell receptor gamma constant 2 /// T cell receptor gamma variable 9 /// TCR g | TARP /// TRGC2 /// | 445347 /// t |
| 209813_x_at | T cell receptor gamma constant 2 /// T cell receptor gamma variable 9 /// TCR g | TARP /// TRGC2 /// | 445347 |
| 240206_at | Threonyl-tRNA synthetase | TARS | 6897 |
| 221391_at | taste receptor, type 2, member 14 | TAS2R14 | 50840 |
| 1570384_at | taste receptor, type 2, member 48 | TAS2R48 | 259294 |
| 221398_at | taste receptor, type 2, member 8 | TAS2R8 | 50836 |
| 219443_at | taspace, threonine aspartase, 1 | TASP1 | 55617 |
| 200976_s_at | Tax1 (human T-cell leukemia virus type I) binding protein 1 | TAX1BP1 | 8887 |
| 200977_s_at | Tax1 (human T-cell leukemia virus type I) binding protein 1 | TAX1BP1 | 8887 |
| 209154_at | Tax1 (human T-cell leukemia virus type I) binding protein 3 | TAX1BP3 | 30851 |
| 215464_s_at | Tax1 (human T-cell leukemia virus type I) binding protein 3 | TAX1BP3 | 30851 |
| 212350_at | TBC1 (tre-2/USP6, BUB2, cdc16) domain family, member 1 | TBC1D1 | 23216 |
| 1569566_at | TBC1 (tre-2/USP6, BUB2, cdc16) domain family, member 1 | TBC1D1 | 23216 |
| 228258_at | TBC1 domain family, member 10C | TBC1D10C | 374403 |
| 221858_at | TBC1 domain family, member 12 | TBC1D12 | 23232 |
| 224622_at | TBC1 domain family, member 14 | TBC1D14 | 57533 |
| 218268_at | TBC1 domain family, member 15 | TBC1D15 | 64786 |
| 218466_at | TBC1 domain family, member 17 | TBC1D17 | 79735 |
| 222173_s_at | TBC1 domain family, member 2 | TBC1D2 | 55357 |
| 226664_at | TBC1 domain family, member 20 | TBC1D20 | 128637 |
| 33778_at | TBC1 domain family, member 22A | TBC1D22A | 25771 |
| 210144_at | TBC1 domain family, member 22A | TBC1D22A | 25771 |
| 209650_s_at | TBC1 domain family, member 22A | TBC1D22A | 25771 |
| 225121_at | TBC1 domain family, member 23 | TBC1D23 | 55773 |
| 201814_at | TBC1 domain family, member 5 | TBC1D5 | 9779 |
| 201813_s_at | TBC1 domain family, member 5 | TBC1D5 | 9779 |
| 223461_at | TBC1 domain family, member 7 | TBC1D7 | 51256 |
| 212052_s_at | TBC1 domain family, member 9B (with GRAM domain) | TBC1D9B | 23061 |
| 215994_x_at | TBC1 domain family, member 9B (with GRAM domain) | TBC1D9B | 23061 |
| 212054_x_at | TBC1 domain family, member 9B (with GRAM domain) | TBC1D9B | 23061 |
| 218520_at | TANK-binding kinase 1 | TBK1 | 29110 |
| 213401_s_at | Transducin (beta)-like 1X-linked | TBL1X | 6907 |
| 213400_s_at | transducin (beta)-like 1X-linked | TBL1X | 6907 |
| 201869_s_at | transducin (beta)-like 1X-linked | TBL1X | 6907 |
| 201867_s_at | transducin (beta)-like 1X-linked | TBL1X | 6907 |
| 201868_s_at | transducin (beta)-like 1X-linked | TBL1X | 6907 |
| 233633_at | Transducin (beta)-like 1X-linked receptor 1 | TBL1XR1 | 79718 |
| 222633_at | transducin (beta)-like 1X-linked receptor 1 | TBL1XR1 | 79718 |
| 230320_at | transforming growth factor beta regulator 1 | TBRG1 | 84897 |

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|--------------|---|-------------------|--------|
| 220961_s_at | transforming growth factor beta regulator 4 | <i>TBRG4</i> | 9238 |
| 1559840_s_at | T-box 18 | <i>TBX18</i> | 9096 |
| 220684_at | T-box 21 | <i>TBX21</i> | 30009 |
| 208130_s_at | thromboxane A synthase 1 (platelet, cytochrome P450, family 5, subfamily A) | <i>TBXAS1</i> | 6916 |
| 1553132_a_at | tandem C2 domains, nuclear | <i>TC2N</i> | 123036 |
| 1561254_at | hypothetical LOC340340 | <i>tcag7.1188</i> | 340340 |
| 240061_at | Hypothetical protein LOC54103 | <i>tcag7.1314</i> | 54103 |
| 1562664_at | hypothetical protein LOC286009 | <i>tcag7.929</i> | 286009 |
| 227279_at | transcription elongation factor A (SII)-like 3 | <i>TCEAL3</i> | 85012 |
| 202824_s_at | transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C) | <i>TCEB1</i> | 6921 |
| 200085_s_at | transcription elongation factor B (SIII), polypeptide 2 (18kDa, elongin B) | <i>TCEB2</i> | 6923 |
| 202818_s_at | transcription elongation factor B (SIII), polypeptide 3 (110kDa, elongin A) | <i>TCEB3</i> | 6924 |
| 202396_at | transcription elongation regulator 1 | <i>TCERG1</i> | 10915 |
| 229706_at | transcription elongation regulator 1 | <i>TCERG1</i> | 10915 |
| 235925_at | Transcription factor 12 (HTF4, helix-loop-helix transcription factors 4) | <i>TCF12</i> | 6938 |
| 208986_at | transcription factor 12 (HTF4, helix-loop-helix transcription factors 4) | <i>TCF12</i> | 6938 |
| 215511_at | transcription factor 20 (AR1) | <i>TCF20</i> | 6942 |
| 215260_s_at | transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47) | <i>TCF3</i> | 6929 |
| 212386_at | transcription factor 4 | <i>TCF4</i> | 6925 |
| 212382_at | transcription factor 4 | <i>TCF4</i> | 6925 |
| 213891_s_at | transcription factor 4 | <i>TCF4</i> | 6925 |
| 203753_at | transcription factor 4 | <i>TCF4</i> | 6925 |
| 212385_at | transcription factor 4 | <i>TCF4</i> | 6925 |
| 212387_at | transcription factor 4 | <i>TCF4</i> | 6925 |
| 205255_x_at | transcription factor 7 (T-cell specific, HMG-box) | <i>TCF7</i> | 6932 |
| 212759_s_at | transcription factor 7-like 2 (T-cell specific, HMG-box) | <i>TCF7L2</i> | 6934 |
| 204158_s_at | T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subunit A3 | <i>TCIRG1</i> | 10312 |
| 39318_at | T-cell leukemia/lymphoma 1A | <i>TCL1A</i> | 8115 |
| 205513_at | transcobalamin I (vitamin B12 binding protein, R binder family) | <i>TCN1</i> | 6947 |
| 202384_s_at | Treacher Collins-Franceschetti syndrome 1 | <i>TCOF1</i> | 6949 |
| 233472_at | t-complex 11 (mouse)-like 1 | <i>TCP11L1</i> | 55346 |
| 1559413_at | t-complex 11 (mouse)-like 2 | <i>TCP11L2</i> | 255394 |
| 1553861_at | t-complex 11 (mouse)-like 2 | <i>TCP11L2</i> | 255394 |
| 1565525_a_at | t-complex 11 (mouse)-like 2 | <i>TCP11L2</i> | 255394 |
| 1557945_at | T-complex-associated-testis-expressed 3 | <i>TCTE3</i> | 6991 |
| 1553635_s_at | Tctex1 domain containing 1 | <i>TCTEX1D1</i> | 200132 |
| 212123_at | tectonic family member 3 | <i>TCTN3</i> | 26123 |
| 208089_s_at | tudor domain containing 3 | <i>TDRD3</i> | 81550 |
| 218584_at | tectonic 1 | <i>TECT1</i> | 79600 |
| 200803_s_at | testis enhanced gene transcript (BAX inhibitor 1) | <i>TEGT</i> | 7009 |
| 228670_at | telomerase-associated protein 1 | <i>TEP1</i> | 7011 |
| 203449_s_at | telomeric repeat binding factor (NIMA-interacting) 1 | <i>TERF1</i> | 7013 |
| 203448_s_at | telomeric repeat binding factor (NIMA-interacting) 1 | <i>TERF1</i> | 7013 |
| 229790_at | telomeric repeat binding factor 2 | <i>TERF2</i> | 7014 |
| 201174_s_at | telomeric repeat binding factor 2, interacting protein | <i>TERF2IP</i> | 54386 |
| 202719_s_at | testis derived transcript (3 LIM domains) | <i>TES</i> | 26136 |
| 205486_at | testis-specific kinase 2 | <i>TESK2</i> | 10420 |
| 218099_at | testis expressed 2 | <i>TEX2</i> | 55852 |
| 1562259_at | testis expressed 9 | <i>TEX9</i> | 374618 |
| 243198_at | testis expressed 9 | <i>TEX9</i> | 374618 |
| 203177_x_at | transcription factor A, mitochondrial | <i>TFAM</i> | 7019 |
| 1555348_at | transcription factor AP-2 epsilon (activating enhancer binding protein 2 epsilon) | <i>TFAP2E</i> | 339488 |
| 228075_x_at | transcription factor B1, mitochondrial | <i>TFB1M</i> | 51106 |
| 218605_at | transcription factor B2, mitochondrial | <i>TFB2M</i> | 64216 |
| 212330_at | transcription factor Dp-1 | <i>TFDP1</i> | 7027 |
| 242939_at | transcription factor Dp-1 | <i>TFDP1</i> | 7027 |
| 242538_at | Transcription factor Dp-1 | <i>TFDP1</i> | 7027 |
| 204147_s_at | transcription factor Dp-1 | <i>TFDP1</i> | 7027 |
| 212457_at | transcription factor binding to IGHM enhancer 3 | <i>TFE3</i> | 7030 |
| 1565347_s_at | transcription factor binding to IGHM enhancer 3 | <i>TFE3</i> | 7030 |
| 217839_at | TRK-fused gene | <i>TFG</i> | 10342 |
| 210664_s_at | tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor) | <i>TFPI</i> | 7035 |
| 209676_at | tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor) | <i>TFPI</i> | 7035 |

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| 215447_at | Tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor) | <i>TFPI</i> | 7035 |
| 209277_at | tissue factor pathway inhibitor 2 | <i>TFPI2</i> | 7980 |
| 237215_s_at | transferrin receptor (p90, CD71) | <i>TFRC</i> | 7037 |
| 207332_s_at | transferrin receptor (p90, CD71) | <i>TFRC</i> | 7037 |
| 208691_at | transferrin receptor (p90, CD71) | <i>TFRC</i> | 7037 |
| 237214_at | transferrin receptor (p90, CD71) | <i>TFRC</i> | 7037 |
| 205016_at | transforming growth factor, alpha | <i>TGFA</i> | 7039 |
| 203085_s_at | transforming growth factor, beta 1 | <i>TGFB1</i> | 7040 |
| 236561_at | Transforming growth factor, beta receptor I (activin A receptor type II-like kinase) | <i>TGFBR1</i> | 7046 |
| 224793_s_at | transforming growth factor, beta receptor I (activin A receptor type II-like kinase) | <i>TGFBR1</i> | 7046 |
| 206943_at | transforming growth factor, beta receptor I (activin A receptor type II-like kinase) | <i>TGFBR1</i> | 7046 |
| 207334_s_at | transforming growth factor, beta receptor II (70/80kDa) | <i>TGFBR2</i> | 7048 |
| 204731_at | transforming growth factor, beta receptor III | <i>TGFBR3</i> | 7049 |
| 203313_s_at | TGFB-induced factor homeobox 1 | <i>TGIF1</i> | 7050 |
| 206004_at | transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase) | <i>TGM3</i> | 7053 |
| 217566_s_at | transglutaminase 4 (prostate) | <i>TGM4</i> | 7047 |
| 1554608_at | trans-golgi network protein 2 | <i>TGOLN2</i> | 10618 |
| 212040_at | trans-golgi network protein 2 | <i>TGOLN2</i> | 10618 |
| 219596_at | THAP domain containing 10 | <i>THAP10</i> | 56906 |
| 227636_at | THAP domain containing 5 | <i>THAP5</i> | 168451 |
| 230169_at | THAP domain containing 6 | <i>THAP6</i> | 152815 |
| 228500_at | THAP domain containing 8 | <i>THAP8</i> | 199745 |
| 203887_s_at | thrombomodulin | <i>THBD</i> | 7056 |
| 203888_at | thrombomodulin | <i>THBD</i> | 7056 |
| 237252_at | thrombomodulin | <i>THBD</i> | 7056 |
| 215775_at | Thrombospondin 1 | <i>THBS1</i> | 7057 |
| 204776_at | thrombospondin 4 | <i>THBS4</i> | 7060 |
| 204064_at | THO complex 1 | <i>THOC1</i> | 9984 |
| 209418_s_at | THO complex 5 | <i>THOC5</i> | 8563 |
| 35846_at | thyroid hormone receptor, alpha (erythroblastic leukemia viral (v-erb-a) oncogene) | <i>THRA</i> | 7067 |
| 222835_at | thrombospondin, type I, domain containing 4 | <i>THSD4</i> | 79875 |
| 214920_at | thrombospondin, type I, domain containing 7A | <i>THSD7A</i> | 221981 |
| 213894_at | thrombospondin, type I, domain containing 7A | <i>THSD7A</i> | 221981 |
| 213025_at | THUMP domain containing 1 | <i>THUMPD1</i> | 55623 |
| 219248_at | THUMP domain containing 2 | <i>THUMPD2</i> | 80745 |
| 223804_s_at | THUMP domain containing 3 | <i>THUMPD3</i> | 25917 |
| 242377_x_at | THUMP domain containing 3 | <i>THUMPD3</i> | 25917 |
| 225730_s_at | THUMP domain containing 3 | <i>THUMPD3</i> | 25917 |
| 225741_at | THUMP domain containing 3 | <i>THUMPD3</i> | 25917 |
| 223711_s_at | thymocyte nuclear protein 1 | <i>THYN1</i> | 29087 |
| 201448_at | TIA1 cytotoxic granule-associated RNA binding protein | <i>TIA1</i> | 7072 |
| 201449_at | TIA1 cytotoxic granule-associated RNA binding protein | <i>TIA1</i> | 7072 |
| 213191_at | toll-like receptor adaptor molecule 1 | <i>TICAM1</i> | 148022 |
| 239431_at | toll-like receptor adaptor molecule 2 | <i>TICAM2</i> | 353376 /// 5 |
| 226117_at | TRAF-interacting protein with a forkhead-associated domain | <i>TIFA</i> | 92610 |
| 216459_x_at | tigger transposable element derived 1-like | <i>TIGD1L</i> | 414771 |
| 229983_at | tigger transposable element derived 2 | <i>TIGD2</i> | 166815 |
| 229789_at | tigger transposable element derived 3 | <i>TIGD3</i> | 220359 |
| 1552522_at | tigger transposable element derived 4 | <i>TIGD4</i> | 201798 |
| 1552523_a_at | tigger transposable element derived 4 | <i>TIGD4</i> | 201798 |
| 224365_s_at | tigger transposable element derived 7 | <i>TIGD7</i> | 91151 |
| 203046_s_at | timeless homolog (Drosophila) | <i>TIMELESS</i> | 8914 |
| 1555764_s_at | translocase of inner mitochondrial membrane 10 homolog (yeast) | <i>TIMM10</i> | 26519 |
| 203342_at | translocase of inner mitochondrial membrane 17 homolog B (yeast) | <i>TIMM17B</i> | 10245 |
| 218119_at | translocase of inner mitochondrial membrane 23 homolog (yeast) /// translocase | <i>TIMM23</i> /// <i>TIMM.10431</i> /// 6 | |
| 210800_at | translocase of inner mitochondrial membrane 8 homolog A (yeast) | <i>TIMM8A</i> | 1678 |
| 203167_at | TIMP metalloproteinase inhibitor 2 | <i>TIMP2</i> | 7077 |
| 212665_at | TCDD-inducible poly(ADP-ribose) polymerase | <i>TIPARP</i> | 25976 |
| 228619_x_at | TIP41, TOR signaling pathway regulator-like (S. cerevisiae) | <i>TIPRL</i> | 261726 |
| 47608_at | tight junction associated protein 1 (peripheral) | <i>TJAP1</i> | 93643 |
| 202011_at | tight junction protein 1 (zona occludens 1) | <i>TJP1</i> | 7082 |
| 202085_at | tight junction protein 2 (zona occludens 2) | <i>TJP2</i> | 9414 |
| 204276_at | thymidine kinase 2, mitochondrial | <i>TK2</i> | 7084 |

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|--------------|--|-----------------|--------|
| 216370_s_at | transketolase-like 1 | <i>TKTL1</i> | 8277 |
| 214183_s_at | transketolase-like 1 | <i>TKTL1</i> | 8277 |
| 203221_at | transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila) | <i>TLE1</i> | 7088 |
| 228340_at | transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila) | <i>TLE3</i> | 7090 |
| 206472_s_at | transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila) | <i>TLE3</i> | 7090 |
| 212769_at | transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila) | <i>TLE3</i> | 7090 |
| 212770_at | transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila) | <i>TLE3</i> | 7090 |
| 211077_s_at | tousled-like kinase 1 | <i>TLK1</i> | 9874 |
| 210379_s_at | tousled-like kinase 1 | <i>TLK1</i> | 9874 |
| 203254_s_at | talin 1 | <i>TLN1</i> | 7094 |
| 223751_x_at | toll-like receptor 10 | <i>TLR10</i> | 81793 |
| 223750_s_at | toll-like receptor 10 | <i>TLR10</i> | 81793 |
| 204924_at | toll-like receptor 2 | <i>TLR2</i> | 7097 |
| 1552798_a_at | toll-like receptor 4 | <i>TLR4</i> | 7099 |
| 210166_at | toll-like receptor 5 | <i>TLR5</i> | 7100 |
| 207446_at | toll-like receptor 6 | <i>TLR6</i> | 10333 |
| 221702_s_at | TM2 domain containing 3 | <i>TM2D3</i> | 80213 |
| 1552426_a_at | TM2 domain containing 3 | <i>TM2D3</i> | 80213 |
| 215033_at | transmembrane 4 L six family member 1 | <i>TM4SF1</i> | 4071 |
| 219892_at | transmembrane 6 superfamily member 1 | <i>TM6SF1</i> | 53346 |
| 222477_s_at | transmembrane 7 superfamily member 3 | <i>TM7SF3</i> | 51768 |
| 209150_s_at | transmembrane 9 superfamily member 1 | <i>TM9SF1</i> | 10548 |
| 201078_at | transmembrane 9 superfamily member 2 | <i>TM9SF2</i> | 9375 |
| 228610_at | Transmembrane 9 superfamily member 3 | <i>TM9SF3</i> | 56889 |
| 217758_s_at | transmembrane 9 superfamily member 3 | <i>TM9SF3</i> | 56889 |
| 222399_s_at | transmembrane 9 superfamily member 3 | <i>TM9SF3</i> | 56889 |
| 217730_at | transmembrane BAX inhibitor motif containing 1 | <i>TMBIM1</i> | 64114 |
| 222845_x_at | transmembrane BAX inhibitor motif containing 4 | <i>TMBIM4</i> | 51643 |
| 223892_s_at | transmembrane BAX inhibitor motif containing 4 | <i>TMBIM4</i> | 51643 |
| 204328_at | transmembrane channel-like 6 | <i>TMC6</i> | 11322 |
| 220021_at | transmembrane channel-like 7 | <i>TMC7</i> | 79905 |
| 213351_s_at | transmembrane and coiled-coil domain family 1 | <i>TMCC1</i> | 23023 |
| 213349_at | transmembrane and coiled-coil domain family 1 | <i>TMCC1</i> | 23023 |
| 226489_at | transmembrane and coiled-coil domain family 3 | <i>TMCC3</i> | 57458 |
| 226050_at | transmembrane and coiled-coil domains 3 | <i>TMCO3</i> | 55002 |
| 220240_s_at | transmembrane and coiled-coil domains 3 | <i>TMCO3</i> | 55002 |
| 212352_s_at | transmembrane emp24-like trafficking protein 10 (yeast) | <i>TMED10</i> | 10972 |
| 200929_at | transmembrane emp24-like trafficking protein 10 (yeast) | <i>TMED10</i> | 10972 |
| 200087_s_at | transmembrane emp24 domain trafficking protein 2 | <i>TMED2</i> | 10959 |
| 204426_at | transmembrane emp24 domain trafficking protein 2 | <i>TMED2</i> | 10959 |
| 204427_s_at | transmembrane emp24 domain trafficking protein 2 | <i>TMED2</i> | 10959 |
| 1558487_a_at | transmembrane emp24 protein transport domain containing 4 | <i>TMED4</i> | 222068 |
| 224680_at | transmembrane emp24 protein transport domain containing 4 | <i>TMED4</i> | 222068 |
| 202194_at | transmembrane emp24 protein transport domain containing 5 | <i>TMED5</i> | 50999 |
| 202195_s_at | transmembrane emp24 protein transport domain containing 5 | <i>TMED5</i> | 50999 |
| 209404_s_at | transmembrane emp24 protein transport domain containing 7 | <i>TMED7</i> | 51014 |
| 214658_at | transmembrane emp24 protein transport domain containing 7 | <i>TMED7</i> | 51014 |
| 225343_at | transmembrane emp24 protein transport domain containing 8 | <i>TMED8</i> | 283578 |
| 208757_at | transmembrane emp24 protein transport domain containing 9 | <i>TMED9</i> | 54732 |
| 205122_at | transmembrane protein with EGF-like and two follistatin-like domains 1 | <i>TMEFF1</i> | 8577 |
| 233910_at | transmembrane protein with EGF-like and two follistatin-like domains 2 | <i>TMEFF2</i> | 23671 |
| 223557_s_at | transmembrane protein with EGF-like and two follistatin-like domains 2 | <i>TMEFF2</i> | 23671 |
| 238590_x_at | transmembrane protein 107 | <i>TMEM107</i> | 84314 |
| 217882_at | transmembrane protein 111 | <i>TMEM111</i> | 55831 |
| 242533_at | Transmembrane protein 112 | <i>TMEM112</i> | --- |
| 223482_at | transmembrane protein 120A | <i>TMEM120A</i> | 83862 |
| 223334_at | transmembrane protein 126A | <i>TMEM126A</i> | 84233 |
| 222887_s_at | transmembrane protein 127 | <i>TMEM127</i> | 55654 |
| 223595_at | transmembrane protein 133 | <i>TMEM133</i> | 83935 |
| 1554866_at | transmembrane protein 135 | <i>TMEM135</i> | 65084 |
| 218999_at | transmembrane protein 140 | <i>TMEM140</i> | 55281 |
| 202475_at | transmembrane protein 147 | <i>TMEM147</i> | 10430 |
| 223133_at | transmembrane protein 14B | <i>TMEM14B</i> | 81853 |

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| 223106_at | transmembrane protein 14C | <i>TMEM14C</i> | 51522 |
| 220169_at | transmembrane protein 156 | <i>TMEM156</i> | 80008 |
| 241844_x_at | transmembrane protein 156 | <i>TMEM156</i> | 80008 |
| 226752_at | transmembrane protein 157 | <i>TMEM157</i> | 345757 |
| 227861_at | transmembrane protein 161B | <i>TMEM161B</i> | 153396 |
| 236227_at | transmembrane protein 161B | <i>TMEM161B</i> | 153396 |
| 238783_at | transmembrane protein 161B | <i>TMEM161B</i> | 153396 |
| 223201_s_at | transmembrane protein 164 | <i>TMEM164</i> | 100130886 , |
| 220486_x_at | transmembrane protein 164 | <i>TMEM164</i> | 100130886 , |
| 226276_at | transmembrane protein 167 | <i>TMEM167</i> | 153339 |
| 234726_s_at | transmembrane protein 168 | <i>TMEM168</i> | 64418 |
| 218962_s_at | transmembrane protein 168 | <i>TMEM168</i> | 64418 |
| 225489_at | transmembrane protein 18 | <i>TMEM18</i> | 129787 |
| 225127_at | transmembrane protein 181 | <i>TMEM181</i> | 57583 |
| 227880_s_at | transmembrane protein 185A | <i>TMEM185A</i> | 100132969 , |
| 204676_at | transmembrane protein 186 | <i>TMEM186</i> | 25880 |
| 223186_at | transmembrane protein 189 | <i>TMEM189</i> | 387521 /// ; |
| 231012_at | transmembrane protein 20 | <i>TMEM20</i> | 159371 |
| 222391_at | transmembrane protein 30A | <i>TMEM30A</i> | 55754 |
| 213285_at | transmembrane protein 30B | <i>TMEM30B</i> | 161291 |
| 222735_at | transmembrane protein 38B | <i>TMEM38B</i> | 55151 |
| 241374_at | transmembrane protein 39A | <i>TMEM39A</i> | 55254 |
| 202857_at | transmembrane protein 4 | <i>TMEM4</i> | 10330 |
| 209797_at | transmembrane protein 4 | <i>TMEM4</i> | 10330 |
| 219503_s_at | transmembrane protein 40 | <i>TMEM40</i> | 55287 |
| 212622_at | transmembrane protein 41B | <i>TMEM41B</i> | 440026 |
| 1560275_at | transmembrane protein 44 | <i>TMEM44</i> | 93109 |
| 209656_s_at | transmembrane protein 47 | <i>TMEM47</i> | 83604 |
| 218073_s_at | transmembrane protein 48 | <i>TMEM48</i> | 55706 |
| 231697_s_at | Transmembrane protein 49 | <i>TMEM49</i> | --- |
| 204808_s_at | transmembrane protein 5 | <i>TMEM5</i> | 10329 |
| 222401_s_at | transmembrane protein 50A | <i>TMEM50A</i> | 23585 |
| 226338_at | transmembrane protein 55A | <i>TMEM55A</i> | 55529 |
| 218562_s_at | transmembrane protein 57 | <i>TMEM57</i> | 55219 |
| 200620_at | transmembrane protein 59 | <i>TMEM59</i> | 9528 |
| 223396_at | transmembrane protein 60 | <i>TMEM60</i> | 85025 |
| 225974_at | transmembrane protein 64 | <i>TMEM64</i> | 169200 |
| 242338_at | transmembrane protein 64 | <i>TMEM64</i> | 169200 |
| 225972_at | transmembrane protein 64 | <i>TMEM64</i> | 169200 |
| 238045_at | transmembrane protein 65 | <i>TMEM65</i> | 157378 |
| 200847_s_at | transmembrane protein 66 | <i>TMEM66</i> | 51669 |
| 1563646_a_at | transmembrane protein 67 | <i>TMEM67</i> | 91147 |
| 223335_at | transmembrane protein 69 | <i>TMEM69</i> | 51249 |
| 238429_at | transmembrane protein 71 | <i>TMEM71</i> | 137835 |
| 1555159_at | Transmembrane protein 74 | <i>TMEM74</i> | 157753 |
| 1552520_at | transmembrane protein 74 | <i>TMEM74</i> | 157753 |
| 225230_at | transmembrane protein 77 | <i>TMEM77</i> | 128338 |
| 221882_s_at | transmembrane protein 8 (five membrane-spanning domains) | <i>TMEM8</i> | 58986 |
| 229452_at | transmembrane protein 88 | <i>TMEM88</i> | 92162 |
| 229957_at | transmembrane protein 91 | <i>TMEM91</i> | 593 /// 6416 |
| 212281_s_at | transmembrane protein 97 | <i>TMEM97</i> | 27346 |
| 218065_s_at | TMEM9 domain family, member B | <i>TMEM9B</i> | 56674 |
| 214948_s_at | TATA element modulatory factor 1 | <i>TMF1</i> | 7110 |
| 227685_at | TATA element modulatory factor 1 | <i>TMF1</i> | 7110 |
| 213024_at | TATA element modulatory factor 1 | <i>TMF1</i> | 7110 |
| 235566_at | TATA element modulatory factor 1 | <i>TMF1</i> | 7110 |
| 222744_s_at | trimethyllysine hydroxylase, epsilon | <i>TMLHE</i> | 55217 |
| 219701_at | tropomodulin 2 (neuronal) | <i>TMOD2</i> | 29767 |
| 220800_s_at | tropomodulin 3 (ubiquitous) | <i>TMOD3</i> | 29766 |
| 223077_at | tropomodulin 3 (ubiquitous) | <i>TMOD3</i> | 29766 |
| 223078_s_at | tropomodulin 3 (ubiquitous) | <i>TMOD3</i> | 29766 |
| 224944_at | thymopoietin | <i>TMPO</i> | 7112 |
| 209754_s_at | thymopoietin | <i>TMPO</i> | 7112 |

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| 203432_at | thymopoietin | <i>TMPO</i> | 7112 |
| 1560712_at | transmembrane protease, serine 11B | <i>TMPRSS11B</i> | 132724 |
| 214955_at | transmembrane protease, serine 6 | <i>TMPRSS6</i> | 164656 |
| 235775_at | transmembrane and tetratricopeptide repeat containing 2 | <i>TMTC2</i> | 160335 |
| 228574_at | transmembrane and tetratricopeptide repeat containing 2 | <i>TMTC2</i> | 160335 |
| 226604_at | transmembrane and tetratricopeptide repeat containing 3 | <i>TMTC3</i> | 160418 |
| 225666_at | transmembrane and tetratricopeptide repeat containing 4 | <i>TMTC4</i> | 84899 |
| 223153_x_at | transmembrane and ubiquitin-like domain containing 1 | <i>TMUB1</i> | 83590 |
| 218419_s_at | transmembrane and ubiquitin-like domain containing 2 | <i>TMUB2</i> | 79089 |
| 216005_at | Tenascin C (hexabrachion) | <i>TNC</i> | 3371 |
| 224566_at | trophoblast-derived noncoding RNA | <i>TncRNA</i> | 283131 |
| 234989_at | trophoblast-derived noncoding RNA | <i>TncRNA</i> | 283131 |
| 224565_at | trophoblast-derived noncoding RNA | <i>TncRNA</i> | 283131 |
| 238320_at | trophoblast-derived noncoding RNA | <i>TncRNA</i> | 283131 |
| 227062_at | trophoblast-derived noncoding RNA | <i>TncRNA</i> | 283131 |
| 207113_s_at | tumor necrosis factor (TNF superfamily, member 2) | <i>TNF</i> | 7124 |
| 202644_s_at | tumor necrosis factor, alpha-induced protein 3 | <i>TNFAIP3</i> | 7128 |
| 202643_s_at | tumor necrosis factor, alpha-induced protein 3 | <i>TNFAIP3</i> | 7128 |
| 206026_s_at | tumor necrosis factor, alpha-induced protein 6 | <i>TNFAIP6</i> | 7130 |
| 206025_s_at | tumor necrosis factor, alpha-induced protein 6 | <i>TNFAIP6</i> | 7130 |
| 208296_x_at | tumor necrosis factor, alpha-induced protein 8 | <i>TNFAIP8</i> | 25816 |
| 210260_s_at | tumor necrosis factor, alpha-induced protein 8 | <i>TNFAIP8</i> | 25816 |
| 227420_at | tumor necrosis factor, alpha-induced protein 8-like 1 | <i>TNFAIP8L1</i> | 126282 |
| 223583_at | tumor necrosis factor, alpha-induced protein 8-like 2 | <i>TNFAIP8L2</i> | 79626 |
| 231775_at | tumor necrosis factor receptor superfamily, member 10a | <i>TNFRSF10A</i> | 8797 |
| 209295_at | tumor necrosis factor receptor superfamily, member 10b | <i>TNFRSF10B</i> | 8795 |
| 209294_x_at | tumor necrosis factor receptor superfamily, member 10b | <i>TNFRSF10B</i> | 8795 |
| 210405_x_at | tumor necrosis factor receptor superfamily, member 10b | <i>TNFRSF10B</i> | 8795 |
| 211163_s_at | tumor necrosis factor receptor superfamily, member 10c, decoy without an intr. | <i>TNFRSF10C</i> | 8794 |
| 206222_at | tumor necrosis factor receptor superfamily, member 10c, decoy without an intr. | <i>TNFRSF10C</i> | 8794 |
| 227345_at | tumor necrosis factor receptor superfamily, member 10d, decoy with truncated | <i>TNFRSF10D</i> | 8793 |
| 209354_at | tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry med | <i>TNFRSF14</i> | 8764 |
| 203508_at | tumor necrosis factor receptor superfamily, member 1B | <i>TNFRSF1B</i> | 7133 |
| 206729_at | tumor necrosis factor receptor superfamily, member 8 | <i>TNFRSF8</i> | 943 |
| 207536_s_at | tumor necrosis factor receptor superfamily, member 9 | <i>TNFRSF9</i> | 3604 |
| 202687_s_at | tumor necrosis factor (ligand) superfamily, member 10 | <i>TNFSF10</i> | 8743 |
| 202688_at | tumor necrosis factor (ligand) superfamily, member 10 | <i>TNFSF10</i> | 8743 |
| 214329_x_at | tumor necrosis factor (ligand) superfamily, member 10 | <i>TNFSF10</i> | 8743 |
| 210643_at | tumor necrosis factor (ligand) superfamily, member 11 | <i>TNFSF11</i> | 8600 |
| 209500_x_at | tumor necrosis factor (ligand) superfamily, member 13 /// tumor necrosis factor | <i>TNFSF12-TNFSF13</i> , 407977 /// § | |
| 223502_s_at | tumor necrosis factor (ligand) superfamily, member 13b | <i>TNFSF13B</i> | 10673 |
| 223501_at | tumor necrosis factor (ligand) superfamily, member 13b | <i>TNFSF13B</i> | 10673 |
| 207907_at | tumor necrosis factor (ligand) superfamily, member 14 | <i>TNFSF14</i> | 8740 |
| 221085_at | tumor necrosis factor (ligand) superfamily, member 15 | <i>TNFSF15</i> | 9966 |
| 241819_at | Tumor necrosis factor (ligand) superfamily, member 8 | <i>TNFSF8</i> | 944 |
| 207196_s_at | TNFAIP3 interacting protein 1 | <i>TNIP1</i> | 10318 |
| 243423_at | TNFAIP3 interacting protein 1 | <i>TNIP1</i> | 10318 |
| 218335_x_at | TNFAIP3 interacting protein 2 | <i>TNIP2</i> | 79155 |
| 202561_at | tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase | <i>TNKS</i> | 8658 |
| 218228_s_at | tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2 | <i>TNKS2</i> | 80351 |
| 206393_at | troponin I type 2 (skeletal, fast) | <i>TNNI2</i> | 7136 |
| 225765_at | transportin 1 | <i>TNPO1</i> | 3842 |
| 225766_s_at | transportin 1 | <i>TNPO1</i> | 3842 |
| 209225_x_at | transportin 1 | <i>TNPO1</i> | 3842 |
| 209226_s_at | transportin 1 | <i>TNPO1</i> | 3842 |
| 1552977_a_at | trinucleotide repeat containing 5 | <i>TNRC5</i> | 10695 |
| 224704_at | trinucleotide repeat containing 6A | <i>TNRC6A</i> | 27327 |
| 224705_s_at | trinucleotide repeat containing 6A | <i>TNRC6A</i> | 27327 |
| 240044_x_at | Trinucleotide repeat containing 6B | <i>TNRC6B</i> | 23112 |
| 230779_at | trinucleotide repeat containing 6B | <i>TNRC6B</i> | 23112 |
| 221748_s_at | tensin 1 | <i>TNS1</i> | 7145 |
| 217930_s_at | toll interacting protein | <i>TOLLIP</i> | 54472 |
| 202807_s_at | target of myb1 (chicken) | <i>TOM1</i> | 10043 |

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|--------------|--|--------------------------|---------------------------|
| 204485_s_at | target of myb1 (chicken)-like 1 | <i>TOM1L1</i> | 10040 |
| 212773_s_at | translocase of outer mitochondrial membrane 20 homolog (yeast) | <i>TOMM20</i> | 9804 |
| 201519_at | translocase of outer mitochondrial membrane 70 homolog A (S. cerevisiae) | <i>TOMM70A</i> | 9868 |
| 214299_at | topoisomerase (DNA) III alpha | <i>TOP3A</i> | 7156 |
| 204946_s_at | topoisomerase (DNA) III alpha | <i>TOP3A</i> | 7156 |
| 214300_s_at | topoisomerase (DNA) III alpha | <i>TOP3A</i> | 7156 |
| 202633_at | topoisomerase (DNA) II binding protein 1 | <i>TOPBP1</i> | 11073 |
| 204071_s_at | topoisomerase I binding, arginine/serine-rich | <i>TOPORS</i> | 10210 |
| 209593_s_at | torsin family 1, member B (torsin B) | <i>TOR1B</i> | 27348 |
| 204529_s_at | thymocyte selection-associated high mobility group box | <i>TOX</i> | 9760 |
| 204530_s_at | thymocyte selection-associated high mobility group box | <i>TOX</i> | 9760 |
| 228737_at | TOX high mobility group box family member 2 | <i>TOX2</i> | 84969 |
| 201683_x_at | TOX high mobility group box family member 4 | <i>TOX4</i> | 9878 |
| 232097_at | TOX high mobility group box family member 4 | <i>TOX4</i> | 9878 |
| 210886_x_at | TP53 activated protein 1 | <i>TP53AP1</i> | 11257 |
| 203050_at | tumor protein p53 binding protein 1 | <i>TP53BP1</i> | 7158 |
| 244721_at | tumor protein p53 inducible nuclear protein 1 | <i>TP53INP1</i> | 94241 |
| 224836_at | tumor protein p53 inducible nuclear protein 2 | <i>TP53INP2</i> | 58476 |
| 209863_s_at | tumor protein p63 | <i>TP63</i> | 8626 |
| 203476_at | trophoblast glycoprotein | <i>TPBG</i> | 7162 |
| 201689_s_at | tumor protein D52 | <i>TPD52</i> | 7163 |
| 201690_s_at | tumor protein D52 | <i>TPD52</i> | 7163 |
| 201379_s_at | tumor protein D52-like 2 | <i>TPD52L2</i> | 7165 |
| 1553859_at | tryptophan hydroxylase 1 (tryptophan 5-monooxygenase) | <i>TPH1</i> | 7166 |
| 200822_x_at | triosephosphate isomerase 1 | <i>TPI1</i> | 7167 |
| 213011_s_at | triosephosphate isomerase 1 | <i>TPI1</i> | 7167 |
| 210050_at | triosephosphate isomerase 1 | <i>TPI1</i> | 7167 |
| 210986_s_at | tropomyosin 1 (alpha) | <i>TPM1</i> | 7168 |
| 224164_at | tropomyosin 3 | <i>TPM3</i> | 7170 |
| 212481_s_at | tropomyosin 4 | <i>TPM4</i> | 7171 |
| 1567107_s_at | tropomyosin 4 | <i>TPM4</i> | 7171 |
| 200743_s_at | tripeptidyl peptidase I | <i>TPP1</i> | 1200 |
| 214196_s_at | tripeptidyl peptidase I | <i>TPP1</i> | 1200 |
| 200742_s_at | tripeptidyl peptidase I | <i>TPP1</i> | 1200 |
| 214195_at | tripeptidyl peptidase I | <i>TPP1</i> | 1200 |
| 203375_s_at | tripeptidyl peptidase II | <i>TPP2</i> | 7174 |
| 1557227_s_at | translocated promoter region (to activated MET oncogene) | <i>TPR</i> | 7175 |
| 201730_s_at | translocated promoter region (to activated MET oncogene) | <i>TPR</i> | 7175 |
| 204140_at | tyrosylprotein sulfotransferase 1 | <i>TPST1</i> | 8460 |
| 1556876_s_at | TPE pseudogene 1 | <i>TPTEps1</i> | 440140 |
| 211902_x_at | T cell receptor alpha locus | <i>TRA@</i> | 6955 |
| 216540_at | T cell receptor alpha locus | <i>TRA@</i> | 6955 |
| 210972_x_at | T cell receptor alpha locus /// T cell receptor delta variable 2 /// T cell receptor delta | <i>TRA@ /// TRAC ///</i> | 28663 /// 28663 /// 28663 |
| 215524_x_at | T cell receptor alpha locus /// YME1-like 1 (S. cerevisiae) /// T cell receptor delta | <i>TRA@ /// TRAC ///</i> | 28663 /// 28663 /// 28663 |
| 217143_s_at | T cell receptor alpha locus /// T cell receptor delta locus | <i>TRA@ /// TRD@</i> | 6955 /// 6955 |
| 213593_s_at | transformer-2 alpha | <i>TRA2A</i> | 29896 |
| 229574_at | transformer-2 alpha | <i>TRA2A</i> | 29896 |
| 213575_at | transformer-2 alpha | <i>TRA2A</i> | 29896 |
| 209670_at | T cell receptor alpha constant | <i>TRAC</i> | 28755 |
| 205641_s_at | TNFRSF1A-associated via death domain | <i>TRADD</i> | 8717 |
| 205599_at | TNF receptor-associated factor 1 | <i>TRAF1</i> | 7185 |
| 235116_at | TNF receptor-associated factor 1 | <i>TRAF1</i> | 7185 |
| 221571_at | TNF receptor-associated factor 3 | <i>TRAF3</i> | 7187 |
| 208315_x_at | TNF receptor-associated factor 3 | <i>TRAF3</i> | 7187 |
| 238494_at | TNF receptor-associated factor 3 interacting protein 1 | <i>TRAF3IP1</i> | 26146 |
| 215411_s_at | TRAF3 interacting protein 2 | <i>TRAF3IP2</i> | 10758 |
| 205558_at | TNF receptor-associated factor 6 | <i>TRAF6</i> | 7189 |
| 223029_s_at | TNF receptor-associated factor 7 | <i>TRAF7</i> | 84231 |
| 202080_s_at | trafficking protein, kinesin binding 1 | <i>TRAK1</i> | 22906 |
| 202124_s_at | trafficking protein, kinesin binding 2 | <i>TRAK2</i> | 66008 |
| 201399_s_at | translocation associated membrane protein 1 | <i>TRAM1</i> | 23471 |
| 202369_s_at | translocation associated membrane protein 2 | <i>TRAM2</i> | 9697 |
| 203511_s_at | trafficking protein particle complex 3 | <i>TRAPPC3</i> | 27095 |

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|--------------|---|--------------------------------|--------------|
| 217958_at | trafficking protein particle complex 4 | TRAPPC4 | 51399 |
| 217147_s_at | T cell receptor associated transmembrane adaptor 1 | TRAT1 | 50852 |
| 210915_x_at | T cell receptor beta variable 19 /// T cell receptor beta constant 1 | TRBC1 /// TRBV19 | 28639 |
| 213193_x_at | T cell receptor beta variable 19 /// T cell receptor beta constant 1 | TRBC1 /// TRBV19 | 28639 |
| 211796_s_at | T cell receptor beta variable 19 /// T cell receptor beta variable 7-2 /// T cell rec | TRBC1 /// TRBV19, 28568 /// 28 | |
| 1552791_a_at | triadin | TRDN | 10345 |
| 219434_at | triggering receptor expressed on myeloid cells 1 | TREM1 | 54210 |
| 1567559_s_at | triggering receptor expressed on myeloid cells-like 4 /// triggering receptor expr | TREML3 /// TREML | 285852 /// 3 |
| 238520_at | transcriptional regulating factor 1 | TRERF1 | 55809 |
| 229016_s_at | transcriptional regulating factor 1 | TRERF1 | 55809 |
| 34689_at | three prime repair exonuclease 1 | TREX1 | 11277 /// 84 |
| 218426_s_at | TRIAD3 protein | TRIAD3 | 54476 |
| 227065_at | TRIAD3 protein | TRIAD3 | 54476 |
| 218425_at | TRIAD3 protein | TRIAD3 | 54476 |
| 218403_at | TP53 regulated inhibitor of apoptosis 1 | TRIAP1 | 51499 |
| 239818_x_at | tribbles homolog 1 (Drosophila) | TRIB1 | 10221 |
| 202241_at | tribbles homolog 1 (Drosophila) | TRIB1 | 10221 |
| 202478_at | tribbles homolog 2 (Drosophila) | TRIB2 | 28951 |
| 226566_at | tripartite motif-containing 11 | TRIM11 | 81559 |
| 203148_s_at | tripartite motif-containing 14 | TRIM14 | 9830 |
| 203147_s_at | tripartite motif-containing 14 | TRIM14 | 9830 |
| 36742_at | tripartite motif-containing 15 | TRIM15 | 89870 |
| 1559682_at | Tripartite motif-containing 16-like | TRIM16L | 147166 |
| 204804_at | tripartite motif-containing 21 | TRIM21 | 6737 |
| 213293_s_at | tripartite motif-containing 22 | TRIM22 | 10346 |
| 210994_x_at | tripartite motif-containing 23 | TRIM23 | 373 |
| 224806_at | tripartite motif-containing 25 | TRIM25 | 7706 |
| 242812_at | Tripartite motif-containing 26 | TRIM26 | 7726 |
| 212118_at | tripartite motif-containing 27 | TRIM27 | 5987 |
| 212116_at | tripartite motif-containing 27 | TRIM27 | 5987 |
| 210541_s_at | tripartite motif-containing 27 | TRIM27 | 5987 |
| 200990_at | tripartite motif-containing 28 | TRIM28 | 10155 |
| 213885_at | tripartite motif-containing 3 | TRIM3 | 10612 |
| 212436_at | tripartite motif-containing 33 | TRIM33 | 51592 |
| 210266_s_at | tripartite motif-containing 33 | TRIM33 | 51592 |
| 214815_at | Tripartite motif-containing 33 | TRIM33 | 51592 |
| 219736_at | tripartite motif-containing 36 | TRIM36 | 55521 |
| 224159_x_at | tripartite motif-containing 4 | TRIM4 | 89122 |
| 217759_at | tripartite motif-containing 44 | TRIM44 | 54765 |
| 217760_at | tripartite motif-containing 44 | TRIM44 | 54765 |
| 220534_at | tripartite motif-containing 48 | TRIM48 | 79097 |
| 210705_s_at | tripartite motif-containing 5 | TRIM5 | 85363 |
| 227801_at | tripartite motif-containing 59 | TRIM59 | 286827 |
| 223599_at | tripartite motif-containing 6 | TRIM6 | 117854 |
| 213748_at | tripartite motif-containing 66 | TRIM66 | 9866 |
| 219405_at | tripartite motif-containing 68 | TRIM68 | 55128 |
| 1554250_s_at | tripartite motif-containing 73 | TRIM73 | 375593 |
| 223132_s_at | tripartite motif-containing 8 | TRIM8 | 81603 |
| 232464_at | tripartite motif-containing pseudogene 1 | TRIMP1 | 117852 |
| 243690_at | TRIO and F-actin binding protein | TRIOBP | 11078 |
| 202734_at | thyroid hormone receptor interactor 10 | TRIP10 | 9322 |
| 201546_at | thyroid hormone receptor interactor 12 | TRIP12 | 9320 |
| 218877_s_at | tRNA methyltransferase 11 homolog (S. cerevisiae) | TRMT11 | 60487 |
| 210438_x_at | TROVE domain family, member 2 | TROVE2 | 6738 |
| 212852_s_at | TROVE domain family, member 2 | TROVE2 | 6738 |
| 207520_at | TROVE domain family, member 2 | TROVE2 | 6738 |
| 206425_s_at | transient receptor potential cation channel, subfamily C, member 3 | TRPC3 | 7222 |
| 212059_s_at | transient receptor potential cation channel, subfamily C, member 4 associated p | TRPC4AP | 26133 |
| 217287_s_at | transient receptor potential cation channel, subfamily C, member 6 | TRPC6 | 7225 |
| 240386_at | Transient receptor potential cation channel, subfamily M, member 1 | TRPM1 | 4308 |
| 205708_s_at | transient receptor potential cation channel, subfamily M, member 2 | TRPM2 | 7226 |
| 224412_s_at | transient receptor potential cation channel, subfamily M, member 6 | TRPM6 | 140803 |
| 223324_s_at | transient receptor potential cation channel, subfamily M, member 7 | TRPM7 | 54822 |

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|--------------|---|-------------------------------|--------------|
| 218502_s_at | trichorhinophalangeal syndrome I | <i>TRPS1</i> | 7227 |
| 224218_s_at | trichorhinophalangeal syndrome I | <i>TRPS1</i> | 7227 |
| 222651_s_at | trichorhinophalangeal syndrome I | <i>TRPS1</i> | 7227 |
| 223436_s_at | tRNA phosphotransferase 1 | <i>TRPT1</i> | 83707 |
| 1555042_at | transient receptor potential cation channel, subfamily V, member 5 | <i>TRPV5</i> | 56302 |
| 218977_s_at | tRNA selenocysteine associated protein 1 | <i>TRSPAP1</i> | 54952 |
| 215735_s_at | tuberous sclerosis 2 | <i>TSC2</i> | 7249 |
| 235315_at | TSC22 domain family, member 1 | <i>TSC22D1</i> | 8848 |
| 204094_s_at | TSC22 domain family, member 2 | <i>TSC22D2</i> | 9819 |
| 208763_s_at | TSC22 domain family, member 3 | <i>TSC22D3</i> | 1831 |
| 207001_x_at | TSC22 domain family, member 3 | <i>TSC22D3</i> | 1831 |
| 201758_at | tumor susceptibility gene 101 | <i>TSG101</i> | 7251 |
| 223838_at | testis specific, 10 | <i>TSGA10</i> | 80705 |
| 214529_at | thyroid stimulating hormone, beta | <i>TSHB</i> | 7252 |
| 223282_at | teashirt zinc finger homeobox 1 | <i>TSHZ1</i> | 10194 |
| 235815_at | teashirt zinc finger homeobox 2 | <i>TSHZ2</i> | 128553 |
| 201513_at | translin | <i>TSN</i> | 7247 |
| 203983_at | translin-associated factor X | <i>TSNAX</i> | 7257 |
| 221002_s_at | tetraspanin 14 | <i>TSPAN14</i> | 81619 |
| 227236_at | tetraspanin 2 | <i>TSPAN2</i> | 10100 |
| 214606_at | tetraspanin 2 | <i>TSPAN2</i> | 10100 |
| 200973_s_at | tetraspanin 3 | <i>TSPAN3</i> | 10099 |
| 220558_x_at | tetraspanin 32 | <i>TSPAN32</i> | 10077 |
| 233467_s_at | tetraspanin 32 | <i>TSPAN32</i> | 10077 |
| 212928_at | TSPY-like 4 | <i>TSPYL4</i> | 23270 |
| 209605_at | thiosulfate sulfurtransferase (rhodanese) | <i>TST</i> | 7263 |
| 213922_at | tau tubulin kinase 2 | <i>TTBK2</i> | 146057 |
| 201434_at | tetratricopeptide repeat domain 1 | <i>TTC1</i> | 7265 |
| 219481_at | tetratricopeptide repeat domain 13 | <i>TTC13</i> | 79573 |
| 225178_at | tetratricopeptide repeat domain 14 | <i>TTC14</i> | 151613 |
| 224852_at | tetratricopeptide repeat domain 17 | <i>TTC17</i> | 55761 |
| 232323_s_at | tetratricopeptide repeat domain 17 | <i>TTC17</i> | 55761 |
| 224849_at | tetratricopeptide repeat domain 17 | <i>TTC17</i> | 55761 |
| 240716_at | tetratricopeptide repeat domain 23 | <i>TTC23</i> | 64927 |
| 1554672_at | tetratricopeptide repeat domain 26 | <i>TTC26</i> | 79989 |
| 1554588_a_at | tetratricopeptide repeat domain 30B | <i>TTC30B</i> | 150737 |
| 218838_s_at | tetratricopeptide repeat domain 31 | <i>TTC31</i> | 64427 |
| 203584_at | tetratricopeptide repeat domain 35 | <i>TTC35</i> | 9694 |
| 226152_at | tetratricopeptide repeat domain 7B | <i>TTC7B</i> | 145567 |
| 226120_at | tetratricopeptide repeat domain 8 | <i>TTC8</i> | 123016 |
| 1569189_at | tetratricopeptide repeat domain 9C | <i>TTC9C</i> | 283237 |
| 204772_s_at | transcription termination factor, RNA polymerase I | <i>TTF1</i> | 7270 |
| 204407_at | transcription termination factor, RNA polymerase II | <i>TTF2</i> | 8458 |
| 204822_at | TTK protein kinase | <i>TTK</i> | 7272 |
| 216251_s_at | tubulin tyrosine ligase-like family, member 12 | <i>TLL12</i> | 23170 |
| 210129_s_at | tubulin tyrosine ligase-like family, member 3 | <i>TLL3</i> | 26140 |
| 203702_s_at | tubulin tyrosine ligase-like family, member 4 | <i>TLL4</i> | 9654 |
| 215898_at | tubulin tyrosine ligase-like family, member 5 | <i>TLL5</i> | 23093 |
| 208099_x_at | tubulin tyrosine ligase-like family, member 5 | <i>TLL5</i> | 23093 |
| 214672_at | tubulin tyrosine ligase-like family, member 5 | <i>TLL5</i> | 23093 |
| 240793_at | Titin | <i>TTN</i> | 7273 |
| 210614_at | tocopherol (alpha) transfer protein | <i>TTPA</i> | 7274 |
| 202266_at | TRAF and TNF receptor associated protein | <i>TTRAP</i> | 51567 |
| 211460_at | testis-specific transcript, Y-linked 9A /// testis-specific transcript, Y-linked 9B | <i>TTY9A</i> /// <i>TTY9B</i> | 425057 /// { |
| 209118_s_at | tubulin, alpha 1a | <i>TUBA1A</i> | 7846 |
| 201090_x_at | tubulin, alpha 1b | <i>TUBA1B</i> | 10376 |
| 212639_x_at | tubulin, alpha 1b | <i>TUBA1B</i> | 10376 |
| 213646_x_at | tubulin, alpha 1b | <i>TUBA1B</i> | 10376 |
| 211072_x_at | tubulin, alpha 1b | <i>TUBA1B</i> | 10376 |
| 211750_x_at | tubulin, alpha 1c | <i>TUBA1C</i> | 84790 |
| 212242_at | tubulin, alpha 4a | <i>TUBA4A</i> | 7277 |
| 221326_s_at | tubulin, delta 1 | <i>TUBD1</i> | 51174 |
| 230891_at | Tubulin, epsilon 1 | <i>TUBE1</i> | 51175 |

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|--------------|---|--------------------------------|--------------|
| 203690_at | tubulin, gamma complex associated protein 3 | <i>TUBGCP3</i> | 10426 |
| 215739_s_at | tubulin, gamma complex associated protein 3 | <i>TUBGCP3</i> | 10426 |
| 1554086_at | tubulin, gamma complex associated protein 3 | <i>TUBGCP3</i> | 10426 |
| 225758_s_at | tubulin, gamma complex associated protein 6 | <i>TUBGCP6</i> | 85378 |
| 222244_s_at | taurine upregulated gene 1 | <i>TUG1</i> | 55000 |
| 203246_s_at | tumor suppressor candidate 4 | <i>TUSC4</i> | 10641 |
| 214729_at | TWIST neighbor | <i>TWISTNB</i> | 221830 |
| 225406_at | twisted gastrulation homolog 1 (Drosophila) | <i>TWSG1</i> | 57045 |
| 219201_s_at | twisted gastrulation homolog 1 (Drosophila) | <i>TWSG1</i> | 57045 |
| 206828_at | TXK tyrosine kinase | <i>TXK</i> | 7294 |
| 208097_s_at | thioredoxin domain containing 1 | <i>TXNDC1</i> | 81542 |
| 225302_at | thioredoxin domain containing 10 | <i>TXNDC10</i> | 54495 |
| 223325_at | thioredoxin domain containing 11 | <i>TXNDC11</i> | 51061 |
| 223017_at | thioredoxin domain containing 12 (endoplasmic reticulum) | <i>TXNDC12</i> | 51060 |
| 201581_at | thioredoxin domain containing 13 | <i>TXNDC13</i> | 56255 |
| 201580_s_at | thioredoxin domain containing 13 | <i>TXNDC13</i> | 56255 |
| 227873_at | thioredoxin domain containing 15 | <i>TXNDC15</i> | 79770 |
| 208959_s_at | thioredoxin domain containing 4 (endoplasmic reticulum) | <i>TXNDC4</i> | 23071 |
| 221253_s_at | thioredoxin domain containing 5 | <i>TXNDC5</i> | 63915 /// 8: |
| 1564386_at | thioredoxin domain containing 8 (spermatozoa) | <i>TXNDC8</i> | 255220 |
| 201008_s_at | thioredoxin interacting protein | <i>TXNIP</i> | 10628 |
| 201009_s_at | thioredoxin interacting protein | <i>TXNIP</i> | 10628 |
| 201588_at | thioredoxin-like 1 | <i>TXNL1</i> | 9352 |
| 1554696_s_at | thymidylate synthetase | <i>TYMS</i> | 7298 |
| 202589_at | thymidylate synthetase | <i>TYMS</i> | 7298 |
| 205694_at | tyrosinase-related protein 1 | <i>TYRP1</i> | 7306 |
| 231904_at | U2 small nuclear RNA auxiliary factor 1 | <i>U2AF1</i> | 7307 |
| 232141_at | U2 small nuclear RNA auxiliary factor 1 | <i>U2AF1</i> | 7307 |
| 218381_s_at | U2 small nuclear RNA auxiliary factor 2 | <i>U2AF2</i> | 11338 |
| 1558356_at | uveal autoantigen with coiled-coil domains and ankyrin repeats | <i>UACA</i> | 55075 |
| 236715_x_at | uveal autoantigen with coiled-coil domains and ankyrin repeats | <i>UACA</i> | 55075 |
| 209340_at | UDP-N-acetylglucosamine pyrophosphorylase 1 | <i>UAP1</i> | 6675 |
| 221700_s_at | ubiquitin A-52 residue ribosomal protein fusion product 1 | <i>UBA52</i> | 7311 |
| 202151_s_at | UBA domain containing 1 | <i>UBAC1</i> | 10422 |
| 224298_s_at | UBA domain containing 2 | <i>UBAC2</i> | 337867 |
| 46270_at | ubiquitin associated protein 1 | <i>UBAP1</i> | 51271 |
| 221490_at | ubiquitin associated protein 1 | <i>UBAP1</i> | 51271 |
| 221839_s_at | ubiquitin associated protein 2 | <i>UBAP2</i> | 55833 |
| 219192_at | ubiquitin associated protein 2 | <i>UBAP2</i> | 55833 |
| 201378_s_at | ubiquitin associated protein 2-like | <i>UBAP2L</i> | 9898 |
| 201377_at | ubiquitin associated protein 2-like | <i>UBAP2L</i> | 9898 |
| 208980_s_at | ubiquitin C | <i>UBC</i> | 6233 /// 73: |
| 200964_at | ubiquitin-activating enzyme E1 | <i>UBE1</i> | 7317 |
| 1294_at | ubiquitin-activating enzyme E1-like | <i>UBE1L</i> | 7318 |
| 203281_s_at | ubiquitin-activating enzyme E1-like | <i>UBE1L</i> | 7318 |
| 220869_at | ubiquitin-activating enzyme E1-like 2 | <i>UBE1L2</i> | 55236 |
| 201898_s_at | ubiquitin-conjugating enzyme E2A (RAD6 homolog) | <i>UBE2A</i> | 7319 |
| 211763_s_at | ubiquitin-conjugating enzyme E2B (RAD6 homolog) | <i>UBE2B</i> | 7320 |
| 202334_s_at | ubiquitin-conjugating enzyme E2B (RAD6 homolog) | <i>UBE2B</i> | 7320 |
| 239163_at | ubiquitin-conjugating enzyme E2B (RAD6 homolog) | <i>UBE2B</i> | 7320 |
| 202333_s_at | ubiquitin-conjugating enzyme E2B (RAD6 homolog) | <i>UBE2B</i> | 7320 |
| 214590_s_at | ubiquitin-conjugating enzyme E2D 1 (UBC4/5 homolog, yeast) | <i>UBE2D1</i> | 7321 |
| 201345_s_at | ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast) | <i>UBE2D2</i> | 7322 |
| 200667_at | ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast) /// ubiquitin-conj | <i>UBE2D2</i> /// <i>UBE2D</i> | 7323 |
| 200668_s_at | ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast) /// ubiquitin-conj | <i>UBE2D2</i> /// <i>UBE2D</i> | 7323 |
| 200669_s_at | ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast) /// ubiquitin-conj | <i>UBE2D2</i> /// <i>UBE2D</i> | 7323 |
| 240383_at | ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast) | <i>UBE2D3</i> | 7323 |
| 65521_at | ubiquitin-conjugating enzyme E2D 4 (putative) | <i>UBE2D4</i> | 51619 |
| 212519_at | ubiquitin-conjugating enzyme E2E 1 (UBC4/5 homolog, yeast) | <i>UBE2E1</i> | 7324 |
| 210024_s_at | ubiquitin-conjugating enzyme E2E 3 (UBC4/5 homolog, yeast) | <i>UBE2E3</i> | 10477 |
| 231948_s_at | ubiquitin-conjugating enzyme E2F (putative) | <i>UBE2F</i> | 140739 |
| 225783_at | ubiquitin-conjugating enzyme E2F (putative) | <i>UBE2F</i> | 140739 |
| 225787_at | ubiquitin-conjugating enzyme E2F (putative) | <i>UBE2F</i> | 140739 |

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|-------------|--|----------------|--------------|
| 225791_at | ubiquitin-conjugating enzyme E2F (putative) | <i>UBE2F</i> | 140739 |
| 209142_s_at | ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, yeast) | <i>UBE2G1</i> | 7326 |
| 209042_s_at | ubiquitin-conjugating enzyme E2G 2 (UBC7 homolog, yeast) | <i>UBE2G2</i> | 7327 |
| 221962_s_at | ubiquitin-conjugating enzyme E2H (UBC8 homolog, yeast) | <i>UBE2H</i> | 7328 |
| 222420_s_at | ubiquitin-conjugating enzyme E2H (UBC8 homolog, yeast) | <i>UBE2H</i> | 7328 |
| 222421_at | ubiquitin-conjugating enzyme E2H (UBC8 homolog, yeast) | <i>UBE2H</i> | 7328 |
| 217799_x_at | ubiquitin-conjugating enzyme E2H (UBC8 homolog, yeast) | <i>UBE2H</i> | 7328 |
| 213535_s_at | ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast) | <i>UBE2I</i> | 7329 |
| 208760_at | Ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast) | <i>UBE2I</i> | 7329 |
| 217826_s_at | ubiquitin-conjugating enzyme E2, J1 (UBC6 homolog, yeast) | <i>UBE2J1</i> | 51465 |
| 217823_s_at | ubiquitin-conjugating enzyme E2, J1 (UBC6 homolog, yeast) | <i>UBE2J1</i> | 51465 |
| 222435_s_at | ubiquitin-conjugating enzyme E2, J1 (UBC6 homolog, yeast) | <i>UBE2J1</i> | 51465 |
| 201649_at | ubiquitin-conjugating enzyme E2L 6 | <i>UBE2L6</i> | 9246 |
| 203109_at | ubiquitin-conjugating enzyme E2M (UBC12 homolog, yeast) | <i>UBE2M</i> | 9040 |
| 201523_x_at | ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast) | <i>UBE2N</i> | 7334 |
| 217978_s_at | ubiquitin-conjugating enzyme E2Q (putative) 1 | <i>UBE2Q1</i> | 55585 |
| 224747_at | ubiquitin-conjugating enzyme E2Q (putative) 2 | <i>UBE2Q2</i> | 92912 |
| 226954_at | ubiquitin-conjugating enzyme E2R 2 | <i>UBE2R2</i> | 54926 |
| 223014_at | ubiquitin-conjugating enzyme E2R 2 | <i>UBE2R2</i> | 54926 |
| 209096_at | ubiquitin-conjugating enzyme E2 variant 2 | <i>UBE2V2</i> | 7336 |
| 222657_s_at | ubiquitin-conjugating enzyme E2W (putative) | <i>UBE2W</i> | 55284 |
| 236107_at | ubiquitin-conjugating enzyme E2Z | <i>UBE2Z</i> | 65264 |
| 211575_s_at | ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Ang | <i>UBE3A</i> | 7337 |
| 213128_s_at | ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Ang | <i>UBE3A</i> | 7337 |
| 213822_s_at | ubiquitin protein ligase E3B | <i>UBE3B</i> | 89910 |
| 202038_at | ubiquitination factor E4A (UFD2 homolog, yeast) | <i>UBE4A</i> | 9354 |
| 202317_s_at | ubiquitination factor E4B (UFD2 homolog, yeast) | <i>UBE4B</i> | 10277 |
| 202316_x_at | ubiquitination factor E4B (UFD2 homolog, yeast) | <i>UBE4B</i> | 10277 |
| 224878_at | ubiquitin family domain containing 1 | <i>UBFD1</i> | 56061 |
| 201534_s_at | ubiquitin-like 3 | <i>UBL3</i> | 5412 |
| 218011_at | ubiquitin-like 5 | <i>UBL5</i> | 59286 |
| 225063_at | ubiquitin-like 7 (bone marrow stromal cell-derived) | <i>UBL7</i> | 84993 |
| 243916_x_at | ubiquitin-like domain containing CTD phosphatase 1 | <i>UBLCP1</i> | 134510 |
| 227413_at | ubiquitin-like domain containing CTD phosphatase 1 | <i>UBLCP1</i> | 134510 |
| 207253_s_at | ubinnuclein 1 | <i>UBN1</i> | 29855 |
| 209088_s_at | ubinnuclein 1 | <i>UBN1</i> | 29855 |
| 218082_s_at | upstream binding protein 1 (LBP-1a) | <i>UBP1</i> | 7342 |
| 222990_at | ubiquilin 1 | <i>UBQLN1</i> | 29979 |
| 222991_s_at | ubiquilin 1 | <i>UBQLN1</i> | 29979 |
| 222989_s_at | ubiquilin 1 | <i>UBQLN1</i> | 29979 |
| 222252_x_at | ubiquilin 4 | <i>UBQLN4</i> | 56893 |
| 212760_at | ubiquitin protein ligase E3 component n-recogin 2 | <i>UBR2</i> | 23304 |
| 211950_at | ubiquitin protein ligase E3 component n-recogin 4 | <i>UBR4</i> | 23352 |
| 1555888_at | Ubiquitin protein ligase E3 component n-recogin 5 | <i>UBR5</i> | 51366 |
| 225982_at | upstream binding transcription factor, RNA polymerase I | <i>UBTF</i> | 7343 |
| 223012_at | UBX domain containing 1 | <i>UBXD1</i> | 80700 |
| 212006_at | UBX domain containing 2 | <i>UBXD2</i> | 23190 |
| 212007_at | UBX domain containing 2 | <i>UBXD2</i> | 23190 |
| 212008_at | UBX domain containing 2 | <i>UBXD2</i> | 23190 |
| 212108_at | UBX domain containing 8 | <i>UBXD8</i> | 23197 |
| 213334_x_at | UCHL5 interacting protein | <i>UCHL5IP</i> | 11219 /// 5' |
| 208998_at | uncoupling protein 2 (mitochondrial, proton carrier) | <i>UCP2</i> | 7351 |
| 209103_s_at | ubiquitin fusion degradation 1 like (yeast) | <i>UFD1L</i> | 7353 |
| 232180_at | UDP-glucose pyrophosphorylase 2 | <i>UGP2</i> | 7360 |
| 205480_s_at | UDP-glucose pyrophosphorylase 2 | <i>UGP2</i> | 7360 |
| 204532_x_at | UDP glucuronosyltransferase 1 family, polypeptide A4 | <i>UGT1A4</i> | 54575 /// 5' |
| 207126_x_at | UDP glucuronosyltransferase 1 family, polypeptide A4 | <i>UGT1A4</i> | 54575 /// 5' |
| 228956_at | UDP glycosyltransferase 8 (UDP-galactose ceramide galactosyltransferase) | <i>UGT8</i> | 7368 |
| 220746_s_at | ubiquitin interaction motif containing 1 | <i>UIMC1</i> | 51720 |
| 209333_at | unc-51-like kinase 1 (C. elegans) | <i>ULK1</i> | 8408 |
| 231149_s_at | unc-51-like kinase 4 (C. elegans) | <i>ULK4</i> | 54986 |
| 202706_s_at | uridine monophosphate synthetase (orotate phosphoribosyl transferase and or | <i>UMPS</i> | 7372 |
| 203271_s_at | unc-119 homolog (C. elegans) | <i>UNC119</i> | 9094 |

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| 202365_at | unc-119 homolog B (C. elegans) | <i>UNC119B</i> | 84747 |
| 41856_at | unc-5 homolog B (C. elegans) | <i>UNC5B</i> | --- |
| 240958_at | Unc-5 homolog C (C. elegans) | <i>UNC5C</i> | 8633 |
| 231008_at | Unc-5 homolog C (C. elegans)-like | <i>UNC5CL</i> | 222643 |
| 212074_at | unc-84 homolog A (C. elegans) | <i>UNC84A</i> | 23353 |
| 1562434_at | unkempt homolog (Drosophila) | <i>UNK</i> | 85451 |
| 1566896_at | Signal peptide peptidase 3 | <i>UNQ1887</i> | --- |
| 220507_s_at | ureidopropionase, beta | <i>UPB1</i> | 51733 |
| 228219_s_at | ureidopropionase, beta | <i>UPB1</i> | 51733 |
| 214323_s_at | UPF3 regulator of nonsense transcripts homolog A (yeast) | <i>UPF3A</i> | 65110 |
| 206959_s_at | UPF3 regulator of nonsense transcripts homolog A (yeast) | <i>UPF3A</i> | 65110 |
| 218757_s_at | UPF3 regulator of nonsense transcripts homolog B (yeast) | <i>UPF3B</i> | 65109 |
| 203234_at | uridine phosphorylase 1 | <i>UPP1</i> | 7378 |
| 226199_at | uracil phosphoribosyltransferase (FUR1) homolog (S. cerevisiae) | <i>UPRT</i> | 139596 |
| 209065_at | ubiquinol-cytochrome c reductase binding protein | <i>UQCRB</i> | 7381 |
| 241755_at | ubiquinol-cytochrome c reductase core protein II | <i>UQCRC2</i> | 7385 |
| 212600_s_at | ubiquinol-cytochrome c reductase core protein II | <i>UQCRC2</i> | 7385 |
| 200883_at | ubiquinol-cytochrome c reductase core protein II | <i>UQCRC2</i> | 7385 |
| 223303_at | UNC-112 related protein 2 | <i>URP2</i> | 83706 |
| 209136_s_at | ubiquitin specific peptidase 10 | <i>USP10</i> | 9100 |
| 209137_s_at | ubiquitin specific peptidase 10 | <i>USP10</i> | 9100 |
| 213327_s_at | ubiquitin specific peptidase 12 | <i>USP12</i> | 219333 |
| 226567_at | ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase) | <i>USP14</i> | 9097 |
| 231990_at | ubiquitin specific peptidase 15 | <i>USP15</i> | 9958 |
| 228822_s_at | ubiquitin specific peptidase 16 | <i>USP16</i> | 10600 |
| 212388_at | ubiquitin specific peptidase 24 | <i>USP24</i> | 23358 |
| 212381_at | ubiquitin specific peptidase 24 | <i>USP24</i> | 23358 |
| 1563497_at | ubiquitin specific peptidase 25 | <i>USP25</i> | 29761 |
| 231837_at | ubiquitin specific peptidase 28 | <i>USP28</i> | 57646 |
| 1552678_a_at | ubiquitin specific peptidase 28 | <i>USP28</i> | 57646 |
| 221654_s_at | ubiquitin specific peptidase 3 | <i>USP3</i> | 9960 |
| 244871_s_at | ubiquitin specific peptidase 32 | <i>USP32</i> | 84669 |
| 211702_s_at | ubiquitin specific peptidase 32 | <i>USP32</i> | 84669 |
| 212513_s_at | ubiquitin specific peptidase 33 | <i>USP33</i> | 23032 |
| 212980_at | ubiquitin specific peptidase 34 | <i>USP34</i> | 9736 |
| 224978_s_at | ubiquitin specific peptidase 36 | <i>USP36</i> | 57602 |
| 227093_at | Ubiquitin specific peptidase 36 | <i>USP36</i> | 57602 |
| 226729_at | ubiquitin specific peptidase 37 | <i>USP37</i> | 57695 |
| 232033_at | ubiquitin specific peptidase 37 | <i>USP37</i> | 57695 |
| 226730_s_at | ubiquitin specific peptidase 37 | <i>USP37</i> | 57695 |
| 211800_s_at | ubiquitin specific peptidase 4 (proto-oncogene) | <i>USP4</i> | 7375 |
| 202682_s_at | ubiquitin specific peptidase 4 (proto-oncogene) | <i>USP4</i> | 7375 |
| 225089_at | ubiquitin specific peptidase 40 | <i>USP40</i> | 55230 |
| 224048_at | ubiquitin specific peptidase 44 | <i>USP44</i> | 84101 |
| 223701_s_at | ubiquitin specific peptidase 47 | <i>USP47</i> | 55031 |
| 223117_s_at | ubiquitin specific peptidase 47 | <i>USP47</i> | 55031 |
| 220078_at | ubiquitin specific peptidase 48 | <i>USP48</i> | 84196 |
| 220079_s_at | ubiquitin specific peptidase 48 | <i>USP48</i> | 84196 |
| 231817_at | ubiquitin specific peptidase 53 | <i>USP53</i> | 54532 |
| 1555063_at | ubiquitin specific peptidase 6 (Tre-2 oncogene) | <i>USP6</i> | 9098 |
| 1555065_x_at | ubiquitin specific peptidase 6 (Tre-2 oncogene) | <i>USP6</i> | 9098 |
| 201100_s_at | ubiquitin specific peptidase 9, X-linked | <i>USP9X</i> | 8239 |
| 228492_at | ubiquitin specific peptidase 9, Y-linked (fat facets-like, Drosophila) | <i>USP9Y</i> | 100130216 , |
| 205139_s_at | uronyl-2-sulfotransferase | <i>UST</i> | 10090 |
| 203614_at | UTP14, U3 small nucleolar ribonucleoprotein, homolog C (yeast) | <i>UTP14C</i> | 9724 |
| 218715_at | UTP6, small subunit (SSU) processome component, homolog (yeast) | <i>UTP6</i> | 55813 |
| 225093_at | utrophin | <i>UTRN</i> | 7402 |
| 213022_s_at | utrophin | <i>UTRN</i> | 7402 |
| 213023_at | utrophin | <i>UTRN</i> | 7402 |
| 203991_s_at | ubiquitously transcribed tetratricopeptide repeat, X chromosome | <i>UTX</i> | 7403 |
| 238220_at | ubiquitously transcribed tetratricopeptide repeat, X chromosome | <i>UTX</i> | 7403 |
| 219675_s_at | UDP-glucuronate decarboxylase 1 | <i>UXS1</i> | 80146 |
| 218495_at | ubiquitously-expressed transcript | <i>UXT</i> | 8409 |

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|--------------|--|--------|------------|
| 214792_x_at | vesicle-associated membrane protein 2 (synaptobrevin 2) | VAMP2 | 6844 |
| 201556_s_at | vesicle-associated membrane protein 2 (synaptobrevin 2) | VAMP2 | 6844 |
| 201337_s_at | vesicle-associated membrane protein 3 (cellubrevin) | VAMP3 | 9341 |
| 211749_s_at | vesicle-associated membrane protein 3 (cellubrevin) | VAMP3 | 9341 |
| 202546_at | vesicle-associated membrane protein 8 (endobrevin) | VAMP8 | 8673 |
| 208780_x_at | VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa | VAPA | 9218 |
| 219740_at | vasohibin 2 | VASH2 | 79805 |
| 218807_at | vav 3 guanine nucleotide exchange factor | VAV3 | 10451 |
| 224221_s_at | vav 3 guanine nucleotide exchange factor | VAV3 | 10451 |
| 200931_s_at | vinculin | VCL | 7414 |
| 219810_at | valosin containing protein (p97)/p47 complex interacting protein 1 | VCPIP1 | 80124 |
| 1556227_at | Valosin containing protein (p97)/p47 complex interacting protein 1 | VCPIP1 | 80124 |
| 217140_s_at | voltage-dependent anion channel 1 | VDAC1 | 100133724, |
| 212038_s_at | voltage-dependent anion channel 1 | VDAC1 | 7416 |
| 211662_s_at | voltage-dependent anion channel 2 | VDAC2 | 7417 |
| 208846_s_at | voltage-dependent anion channel 3 | VDAC3 | 7419 |
| 201831_s_at | vesicle docking protein p115 | VDP | 8615 |
| 204255_s_at | vitamin D (1,25- dihydroxyvitamin D3) receptor | VDR | 7421 |
| 204254_s_at | vitamin D (1,25- dihydroxyvitamin D3) receptor | VDR | 7421 |
| 204253_s_at | vitamin D (1,25- dihydroxyvitamin D3) receptor | VDR | 7421 |
| 211527_x_at | vascular endothelial growth factor A | VEGFA | 7422 |
| 212171_x_at | vascular endothelial growth factor A | VEGFA | 7422 |
| 210513_s_at | vascular endothelial growth factor A | VEGFA | 7422 |
| 210512_s_at | vascular endothelial growth factor A | VEGFA | 7422 |
| 203683_s_at | vascular endothelial growth factor B | VEGFB | 7423 |
| 207263_x_at | vezatin, adherens junctions transmembrane protein | VEZT | 55591 |
| 227399_at | vestigial like 3 (Drosophila) | VGLL3 | 389136 |
| 214004_s_at | vestigial like 4 (Drosophila) | VGLL4 | 9686 |
| 212399_s_at | vestigial like 4 (Drosophila) | VGLL4 | 9686 |
| 1554943_at | villin 1 | VIL1 | 7429 |
| 208623_s_at | villin 2 (ezrin) | VIL2 | 7430 |
| 208622_s_at | villin 2 (ezrin) | VIL2 | 7430 |
| 209950_s_at | villin-like | VILL | 50853 |
| 1555938_x_at | vimentin | VIM | 7431 |
| 201426_s_at | vimentin | VIM | 7431 |
| 206577_at | vasoactive intestinal peptide | VIP | 7432 |
| 226495_at | Virus-induced signaling adapter | VISA | 57506 |
| 217949_s_at | vitamin K epoxide reductase complex, subunit 1 | VKORC1 | 79001 |
| 209822_s_at | very low density lipoprotein receptor | VLDLR | 7436 |
| 1558549_s_at | vanin 1 | VNN1 | 8876 |
| 205922_at | vanin 2 | VNN2 | 8875 |
| 1553514_a_at | vanin 3 | VNN3 | 55350 |
| 220528_at | vanin 3 | VNN3 | 55350 |
| 1553513_at | vanin 3 | VNN3 | 55350 |
| 213243_at | vacuolar protein sorting 13 homolog B (yeast) | VPS13B | 157680 |
| 236254_at | vacuolar protein sorting 13 homolog B (yeast) | VPS13B | 157680 |
| 218396_at | vacuolar protein sorting 13 homolog C (S. cerevisiae) | VPS13C | 54832 |
| 232386_at | vacuolar protein sorting 13 homolog C (S. cerevisiae) | VPS13C | 54832 |
| 220221_at | vacuolar protein sorting 13 homolog D (S. cerevisiae) | VPS13D | 55187 |
| 223346_at | vacuolar protein sorting 18 homolog (S. cerevisiae) | VPS18 | 57617 |
| 1552276_a_at | vacuolar protein sorting 18 homolog (S. cerevisiae) | VPS18 | 57617 |
| 217837_s_at | vacuolar protein sorting 24 homolog (S. cerevisiae) | VPS24 | 51652 |
| 222437_s_at | vacuolar protein sorting 24 homolog (S. cerevisiae) | VPS24 | 51652 |
| 222436_s_at | vacuolar protein sorting 24 homolog (S. cerevisiae) | VPS24 | 51652 |
| 201807_at | vacuolar protein sorting 26 homolog A (S. pombe) | VPS26A | 9559 |
| 225483_at | vacuolar protein sorting 26 homolog B (S. pombe) | VPS26B | 112936 |
| 230306_at | vacuolar protein sorting 26 homolog B (S. pombe) | VPS26B | 112936 |
| 222478_at | vacuolar protein sorting 36 homolog (S. cerevisiae) | VPS36 | 51028 |
| 225378_at | vacuolar protein sorting 37 homolog A (S. cerevisiae) | VPS37A | 137492 |
| 1560060_s_at | vacuolar protein sorting 37 homolog C (S. cerevisiae) | VPS37C | 55048 |
| 219053_s_at | vacuolar protein sorting 37 homolog C (S. cerevisiae) | VPS37C | 55048 |
| 235625_at | vacuolar protein sorting 41 homolog (S. cerevisiae) | VPS41 | 27072 |
| 214585_s_at | vacuolar protein sorting 52 homolog (S. cerevisiae) | VPS52 | 6293 |

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| 222627_at | vacuolar protein sorting 54 homolog (S. cerevisiae) | <i>VPS54</i> | 51542 |
| 218423_x_at | vacuolar protein sorting 54 homolog (S. cerevisiae) | <i>VPS54</i> | 51542 |
| 233656_s_at | vacuolar protein sorting 54 homolog (S. cerevisiae) | <i>VPS54</i> | 51542 |
| 239917_at | Vacuolar protein sorting 8 homolog (S. cerevisiae) | <i>VPS8</i> | 23355 |
| 209553_at | vacuolar protein sorting 8 homolog (S. cerevisiae) | <i>VPS8</i> | 23355 |
| 236937_at | Vacuolar protein sorting 8 homolog (S. cerevisiae) | <i>VPS8</i> | 23355 |
| 203856_at | vaccinia related kinase 1 | <i>VRK1</i> | 7443 |
| 221999_at | vaccinia related kinase 3 | <i>VRK3</i> | 51231 |
| 235818_at | V-set and transmembrane domain containing 1 | <i>VSTM1</i> | 284415 |
| 240070_at | V-set and transmembrane domain containing 3 | <i>VSTM3</i> | 201633 |
| 223022_s_at | Vps20-associated 1 homolog (S. cerevisiae) | <i>VTA1</i> | 51534 |
| 1561200_at | von Willebrand factor A domain containing 3B | <i>VWA3B</i> | 200403 |
| 217742_s_at | WW domain containing adaptor with coiled-coil | <i>WAC</i> | 51322 |
| 222389_s_at | WW domain containing adaptor with coiled-coil | <i>WAC</i> | 51322 |
| 219679_s_at | WW domain containing adaptor with coiled-coil | <i>WAC</i> | 51322 |
| 224563_at | WAS protein family, member 2 | <i>WASF2</i> | 10163 |
| 221725_at | WAS protein family, member 2 | <i>WASF2</i> | --- |
| 217821_s_at | WW domain binding protein 11 | <i>WBP11</i> | 51729 |
| 209117_at | WW domain binding protein 2 | <i>WBP2</i> | 23558 |
| 232964_at | Williams Beuren syndrome chromosome region 19 | <i>WBSCR19</i> | 285955 |
| 233559_s_at | WD repeat and FYVE domain containing 1 | <i>WDFY1</i> | 57590 |
| 224800_at | WD repeat and FYVE domain containing 1 | <i>WDFY1</i> | 57590 |
| 212606_at | WD repeat and FYVE domain containing 3 | <i>WDFY3</i> | 23001 |
| 212602_at | WD repeat and FYVE domain containing 3 | <i>WDFY3</i> | 23001 |
| 212598_at | WD repeat and FYVE domain containing 3 | <i>WDFY3</i> | 23001 |
| 229597_s_at | WDFY family member 4 | <i>WDFY4</i> | 57705 |
| 218512_at | WD repeat domain 12 | <i>WDR12</i> | 55759 |
| 239916_at | WD repeat domain 16 | <i>WDR16</i> | 146845 |
| 1554558_at | WD repeat domain 22 | <i>WDR22</i> | 8816 |
| 224897_at | WD repeat domain 26 | <i>WDR26</i> | 80232 |
| 224905_at | WD repeat domain 26 | <i>WDR26</i> | 80232 |
| 218107_at | WD repeat domain 26 | <i>WDR26</i> | 80232 |
| 235298_at | WD repeat domain 27 | <i>WDR27</i> | 253769 |
| 218882_s_at | WD repeat domain 3 | <i>WDR3</i> | 10885 |
| 223146_at | WD repeat domain 33 | <i>WDR33</i> | 55339 |
| 237287_at | WD repeat domain 34 | <i>WDR34</i> | 89891 |
| 226180_at | WD repeat domain 36 | <i>WDR36</i> | 134430 |
| 242255_at | WD repeat domain 37 | <i>WDR37</i> | 100130837 |
| 202249_s_at | WD repeat domain 42A | <i>WDR42A</i> | 50717 |
| 209216_at | WD repeat domain 45 | <i>WDR45</i> | 11152 |
| 209076_s_at | WDR45-like | <i>WDR45L</i> | 56270 |
| 226283_at | WD repeat domain 51B | <i>WDR51B</i> | 282809 |
| 225898_at | WD repeat domain 54 | <i>WDR54</i> | 84058 |
| 228295_at | WD repeat domain 59 | <i>WDR59</i> | 79726 |
| 235850_at | WD repeat domain 5B | <i>WDR5B</i> | 54554 |
| 219251_s_at | WD repeat domain 60 | <i>WDR60</i> | 55112 |
| 1553373_at | WD repeat domain 64 | <i>WDR64</i> | 128025 |
| 221745_at | WD repeat domain 68 | <i>WDR68</i> | 10238 |
| 221744_at | WD repeat domain 68 | <i>WDR68</i> | 10238 |
| 224730_at | WD repeat domain 68 | <i>WDR68</i> | 10238 |
| 236134_at | WD repeat domain 68 | <i>WDR68</i> | 10238 |
| 224748_at | WD repeat domain 68 | <i>WDR68</i> | 10238 |
| 209592_s_at | WD repeat domain 68 | <i>WDR68</i> | 10238 |
| 212880_at | WD repeat domain 7 | <i>WDR7</i> | 23335 |
| 227174_at | WD repeat domain 72 | <i>WDR72</i> | 256764 |
| 219322_s_at | WD repeat domain 8 | <i>WDR8</i> | 49856 |
| 236381_s_at | WD repeat domain 8 | <i>WDR8</i> | 49856 |
| 226738_at | WD repeat domain 81 | <i>WDR81</i> | 124997 |
| 230888_at | WD repeat domain 91 | <i>WDR91</i> | 29062 |
| 218971_s_at | WD repeat domain 91 | <i>WDR91</i> | 29062 |
| 222799_at | WD repeat domain 91 | <i>WDR91</i> | 29062 |
| 231784_s_at | WD repeats and SOF1 domain containing | <i>WDSOF1</i> | 25879 |
| 225676_s_at | WD repeats and SOF1 domain containing | <i>WDSOF1</i> | 25879 |

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| 215276_at | WAP four-disulfide core domain 8 | <i>WFDC8</i> | 90199 |
| 228953_at | WAS protein homology region 2 domain containing 1 | <i>WHDC1</i> | 123720 |
| 213908_at | WAS protein homology region 2 domain containing 1-like 1 | <i>WHDC1L1</i> | 339005 /// € |
| 209054_s_at | Wolf-Hirschhorn syndrome candidate 1 | <i>WHSC1</i> | 7468 |
| 221248_s_at | Wolf-Hirschhorn syndrome candidate 1-like 1 | <i>WHSC1L1</i> | 54904 |
| 242304_at | within bgcn homolog (Drosophila) | <i>WIBG</i> | 84305 |
| 204712_at | WNT inhibitory factor 1 | <i>WIF1</i> | 11197 |
| 202663_at | WAS/WASL interacting protein family, member 1 | <i>WIPF1</i> | 7456 |
| 202665_s_at | WAS/WASL interacting protein family, member 1 | <i>WIPF1</i> | 7456 |
| 231182_at | WAS/WASL interacting protein family, member 1 | <i>WIPF1</i> | 7456 |
| 212049_at | WAS/WASL interacting protein family, member 2 | <i>WIPF2</i> | 147179 |
| 212051_at | WAS/WASL interacting protein family, member 2 | <i>WIPF2</i> | 147179 |
| 212050_at | WAS/WASL interacting protein family, member 2 | <i>WIPF2</i> | 147179 |
| 39313_at | WNK lysine deficient protein kinase 1 | <i>WNK1</i> | 65125 |
| 223709_s_at | wingless-type MMTV integration site family, member 10A | <i>WNT10A</i> | 80326 |
| 205990_s_at | wingless-type MMTV integration site family, member 5A | <i>WNT5A</i> | 7474 |
| 213425_at | wingless-type MMTV integration site family, member 5A | <i>WNT5A</i> | 7474 |
| 202749_at | tryptophan rich basic protein | <i>WRB</i> | 7485 |
| 205667_at | Werner syndrome | <i>WRN</i> | 7486 |
| 201294_s_at | WD repeat and SOCS box-containing 1 | <i>WSB1</i> | 26118 |
| 210561_s_at | WD repeat and SOCS box-containing 1 | <i>WSB1</i> | 26118 |
| 201296_s_at | WD repeat and SOCS box-containing 1 | <i>WSB1</i> | 26118 |
| 213406_at | WD repeat and SOCS box-containing 1 | <i>WSB1</i> | 26118 |
| 1560274_at | Wilms tumor 1 associated protein | <i>WTAP</i> | 100132279 , |
| 203137_at | Wilms tumor 1 associated protein | <i>WTAP</i> | 9589 |
| 210285_x_at | Wilms tumor 1 associated protein | <i>WTAP</i> | 9589 |
| 229630_s_at | Wilms tumor 1 associated protein | <i>WTAP</i> | 9589 |
| 227621_at | Wilms tumor 1 associated protein | <i>WTAP</i> | 9589 |
| 237656_at | WW and C2 domain containing 2 | <i>WWC2</i> | 80014 |
| 1552737_s_at | WW domain containing E3 ubiquitin protein ligase 2 | <i>WWP2</i> | 11060 |
| 210200_at | WW domain containing E3 ubiquitin protein ligase 2 | <i>WWP2</i> | 11060 |
| 228617_at | XIAP associated factor-1 | <i>XAF1</i> | 54739 |
| 206133_at | XIAP associated factor-1 | <i>XAF1</i> | 54739 |
| 242234_at | XIAP associated factor-1 | <i>XAF1</i> | 54739 |
| 200670_at | X-box binding protein 1 | <i>XBP1</i> | 7494 |
| 206698_at | X-linked Kx blood group (McLeod syndrome) | <i>XK</i> | 7504 |
| 237802_at | XK, Kell blood group complex subunit-related family, member 4 | <i>XKR4</i> | 114786 |
| 209375_at | xeroderma pigmentosum, complementation group C | <i>XPC</i> | 7508 |
| 209045_at | X-prolyl aminopeptidase (aminopeptidase P) 1, soluble | <i>XPNPEP1</i> | 7511 |
| 208453_s_at | X-prolyl aminopeptidase (aminopeptidase P) 1, soluble | <i>XPNPEP1</i> | 7511 |
| 237750_at | X-prolyl aminopeptidase (aminopeptidase P) 3, putative | <i>XPNPEP3</i> | 63929 |
| 226501_at | X-prolyl aminopeptidase (aminopeptidase P) 3, putative | <i>XPNPEP3</i> | 63929 |
| 240168_at | exportin 7 | <i>XPO7</i> | 23039 |
| 222581_at | xenotropic and polytropic retrovirus receptor | <i>XPR1</i> | 9213 |
| 207598_x_at | X-ray repair complementing defective repair in Chinese hamster cells 2 | <i>XRCC2</i> | 7516 |
| 205071_x_at | X-ray repair complementing defective repair in Chinese hamster cells 4 | <i>XRCC4</i> | 7518 |
| 1555785_a_at | 5'-3' exoribonuclease 1 | <i>XRN1</i> | 54464 |
| 223002_s_at | 5'-3' exoribonuclease 2 | <i>XRN2</i> | 22803 |
| 233878_s_at | 5'-3' exoribonuclease 2 | <i>XRN2</i> | 22803 |
| 230557_at | X-ray radiation resistance associated 1 | <i>XRRA1</i> | 143570 |
| 1569683_at | xylokinase homolog (H. influenzae) | <i>XYLB</i> | 9942 |
| 213725_x_at | xylosyltransferase I | <i>XYLT1</i> | 64131 |
| 224894_at | Yes-associated protein 1, 65kDa | <i>YAP1</i> | 10413 |
| 224895_at | Yes-associated protein 1, 65kDa | <i>YAP1</i> | 10413 |
| 1557047_at | YEATS domain containing 2 | <i>YEATS2</i> | 55689 |
| 221203_s_at | YEATS domain containing 2 | <i>YEATS2</i> | 55689 |
| 202933_s_at | v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1 | <i>YES1</i> | 7525 |
| 1554553_s_at | Yip1 interacting factor homolog B (S. cerevisiae) | <i>YIF1B</i> | 90522 |
| 216338_s_at | Yip1 domain family, member 3 | <i>YIPF3</i> | 25844 |
| 209551_at | Yip1 domain family, member 4 | <i>YIPF4</i> | 84272 |
| 212341_at | Yip1 domain family, member 6 | <i>YIPF6</i> | 286451 |
| 212343_at | Yip1 domain family, member 6 | <i>YIPF6</i> | 286451 |
| 217785_s_at | YKT6 v-SNARE homolog (S. cerevisiae) | <i>YKT6</i> | 10652 |

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| 1557065_at | YLP motif containing 1 | YLPM1 | 56252 |
| 214659_x_at | YLP motif containing 1 | YLPM1 | 56252 |
| 201351_s_at | YME1-like 1 (<i>S. cerevisiae</i>) | YME1L1 | 10730 |
| 216304_x_at | YME1-like 1 (<i>S. cerevisiae</i>) | YME1L1 | 10730 |
| 215150_at | YOD1 OTU deubiquinating enzyme 1 homolog (<i>S. cerevisiae</i>) | YOD1 | 55432 |
| 228788_at | yippee-like 1 (<i>Drosophila</i>) | YPEL1 | 29799 |
| 227020_at | yippee-like 2 (<i>Drosophila</i>) | YPEL2 | 388403 |
| 223179_at | yippee-like 3 (<i>Drosophila</i>) | YPEL3 | 83719 |
| 232077_s_at | yippee-like 3 (<i>Drosophila</i>) | YPEL3 | 83719 |
| 217783_s_at | yippee-like 5 (<i>Drosophila</i>) | YPEL5 | 51646 |
| 222408_s_at | yippee-like 5 (<i>Drosophila</i>) | YPEL5 | 51646 |
| 214814_at | YTH domain containing 1 | YTHDC1 | 91746 |
| 212455_at | YTH domain containing 1 | YTHDC1 | 91746 |
| 205836_s_at | YTH domain containing 2 | YTHDC2 | 64848 |
| 213077_at | YTH domain containing 2 | YTHDC2 | 64848 |
| 221749_at | YTH domain family, member 3 | YTHDF3 | 253943 |
| 1564053_a_at | YTH domain family, member 3 | YTHDF3 | 253943 |
| 217718_s_at | tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, bε | YWHAH | 7529 |
| 222985_at | tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gε | YWHAH | 7532 |
| 212426_s_at | tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, th | YWHAQ | 10971 |
| 213699_s_at | tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, th | YWHAQ | 10971 |
| 200693_at | tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, th | YWHAQ | 10971 |
| 200047_s_at | YY1 transcription factor | YY1 | 7528 |
| 201901_s_at | YY1 transcription factor | YY1 | 7528 |
| 224711_at | YY1 transcription factor | YY1 | 7528 |
| 224718_at | YY1 transcription factor | YY1 | 7528 |
| 217836_s_at | YY1 associated protein 1 | YY1AP1 | 55249 |
| 227977_at | zinc binding alcohol dehydrogenase, domain containing 2 | ZADH2 | 284273 |
| 1554239_s_at | zinc binding alcohol dehydrogenase, domain containing 2 | ZADH2 | 284273 |
| 227978_s_at | zinc binding alcohol dehydrogenase, domain containing 2 | ZADH2 | 284273 |
| 214032_at | zeta-chain (TCR) associated protein kinase 70kDa | ZAP70 | 7535 |
| 1555613_a_at | zeta-chain (TCR) associated protein kinase 70kDa | ZAP70 | 7535 |
| 1554821_a_at | zinc finger, BED-type containing 1 | ZBED1 | 9189 |
| 208087_s_at | Z-DNA binding protein 1 | ZBP1 | 81030 |
| 242020_s_at | Z-DNA binding protein 1 | ZBP1 | 81030 |
| 213376_at | zinc finger and BTB domain containing 1 | ZBTB1 | 22890 |
| 233899_x_at | Zinc finger and BTB domain containing 10 | ZBTB10 | 65986 |
| 219312_s_at | zinc finger and BTB domain containing 10 | ZBTB10 | 65986 |
| 214482_at | zinc finger and BTB domain containing 25 | ZBTB25 | 7597 |
| 227162_at | zinc finger and BTB domain containing 26 | ZBTB26 | 57684 |
| 236557_at | zinc finger and BTB domain containing 38 | ZBTB38 | 253461 |
| 225512_at | zinc finger and BTB domain containing 38 | ZBTB38 | 253461 |
| 219221_at | zinc finger and BTB domain containing 38 | ZBTB38 | 253461 |
| 226962_at | zinc finger and BTB domain containing 41 | ZBTB41 | 360023 |
| 204182_s_at | zinc finger and BTB domain containing 43 | ZBTB43 | 23099 |
| 225845_at | zinc finger and BTB domain containing 44 | ZBTB44 | 29068 |
| 226148_at | zinc finger and BTB domain containing 44 | ZBTB44 | 29068 |
| 1554470_s_at | zinc finger and BTB domain containing 44 | ZBTB44 | 29068 |
| 1554469_at | zinc finger and BTB domain containing 44 | ZBTB44 | 29068 |
| 205025_at | zinc finger and BTB domain containing 48 | ZBTB48 | 3104 |
| 206098_at | zinc finger and BTB domain containing 6 | ZBTB6 | 10773 |
| 1565867_a_at | zinc finger CCCH-type containing 11A | ZC3H11A | 100131402 |
| 205788_s_at | zinc finger CCCH-type containing 11A | ZC3H11A | 9877 |
| 218810_at | zinc finger CCCH-type containing 12A | ZC3H12A | 80149 |
| 227536_at | zinc finger CCCH-type containing 13 | ZC3H13 | 23091 |
| 209851_at | zinc finger CCCH-type containing 13 | ZC3H13 | 23091 |
| 213064_at | zinc finger CCCH-type containing 14 | ZC3H14 | 79882 |
| 201595_s_at | zinc finger CCCH-type containing 15 | ZC3H15 | 55854 |
| 201593_s_at | zinc finger CCCH-type containing 15 | ZC3H15 | 55854 |
| 213445_at | zinc finger CCCH-type containing 3 | ZC3H3 | 23144 |
| 226897_s_at | zinc finger CCCH-type containing 7A | ZC3H7A | 29066 |
| 218348_s_at | zinc finger CCCH-type containing 7A | ZC3H7A | 29066 |
| 206169_x_at | zinc finger CCCH-type containing 7B | ZC3H7B | 23264 |

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| 223506_at | zinc finger CCCH-type containing 8 | ZC3H8 | 84524 |
| 213051_at | zinc finger CCCH-type, antiviral 1 | ZC3HAV1 | 56829 |
| 225634_at | zinc finger CCCH-type, antiviral 1 | ZC3HAV1 | 56829 |
| 223108_s_at | zinc finger, CCHC domain containing 17 | ZCCHC17 | 51538 |
| 219062_s_at | zinc finger, CCHC domain containing 2 | ZCCHC2 | 54877 |
| 224503_s_at | zinc finger, CCHC domain containing 2 | ZCCHC2 | 54877 |
| 244034_at | zinc finger, CCHC domain containing 2 | ZCCHC2 | --- |
| 233425_at | zinc finger, CCHC domain containing 2 | ZCCHC2 | --- |
| 220933_s_at | zinc finger, CCHC domain containing 6 | ZCCHC6 | 79670 |
| 236155_at | Zinc finger, CCHC domain containing 6 | ZCCHC6 | 79670 |
| 236243_at | Zinc finger, CCHC domain containing 6 | ZCCHC6 | 79670 |
| 238800_s_at | Zinc finger, CCHC domain containing 6 | ZCCHC6 | 79670 |
| 230332_at | Zinc finger, CCHC domain containing 7 | ZCCHC7 | 84186 |
| 1560977_a_at | hypothetical protein ZD77D08 | ZD77D08 | 23786 |
| 221646_s_at | zinc finger, DHHC-type containing 11 | ZDHHC11 | 79844 |
| 226088_at | zinc finger, DHHC-type containing 12 | ZDHHC12 | 84885 |
| 232440_at | Zinc finger, DHHC-type containing 13 | ZDHHC13 | 54503 |
| 212860_at | zinc finger, DHHC-type containing 18 | ZDHHC18 | 84243 |
| 231908_at | zinc finger, DHHC-type containing 18 | ZDHHC18 | 84243 |
| 222731_at | zinc finger, DHHC-type containing 2 | ZDHHC2 | 51201 |
| 243835_at | Zinc finger, DHHC-type containing 21 | ZDHHC21 | 340481 |
| 229240_at | Zinc finger, DHHC-type containing 21 | ZDHHC21 | 340481 |
| 235068_at | zinc finger, DHHC-type containing 21 | ZDHHC21 | 340481 |
| 241946_at | zinc finger, DHHC-type containing 21 | ZDHHC21 | 340481 |
| 224868_at | zinc finger, DHHC-type containing 5 | ZDHHC5 | 25921 |
| 224858_at | zinc finger, DHHC-type containing 5 | ZDHHC5 | 25921 |
| 210875_s_at | zinc finger E-box binding homeobox 1 | ZEB1 | 6935 |
| 212764_at | zinc finger E-box binding homeobox 1 | ZEB1 | 6935 |
| 212758_s_at | zinc finger E-box binding homeobox 1 | ZEB1 | 6935 |
| 233031_at | zinc finger E-box binding homeobox 2 | ZEB2 | 100128821, |
| 203603_s_at | zinc finger E-box binding homeobox 2 | ZEB2 | 9839 |
| 235593_at | zinc finger E-box binding homeobox 2 | ZEB2 | 100128821, |
| 202456_s_at | zer-1 homolog (C. elegans) | ZER1 | 10444 |
| 226650_at | zinc finger, AN1-type domain 2A | ZFAND2A | 90637 |
| 226168_at | zinc finger, AN1-type domain 2B | ZFAND2B | 130617 |
| 218020_s_at | zinc finger, AN1-type domain 3 | ZFAND3 | 60685 |
| 222493_s_at | zinc finger, AN1-type domain 3 | ZFAND3 | 60685 |
| 210275_s_at | zinc finger, AN1-type domain 5 | ZFAND5 | 7763 |
| 217741_s_at | zinc finger, AN1-type domain 5 | ZFAND5 | 7763 |
| 221613_s_at | zinc finger, AN1-type domain 6 | ZFAND6 | 54469 |
| 226137_at | zinc finger homeobox 3 | ZFHX3 | 463 |
| 241700_at | zinc finger homeobox 4 | ZFHX4 | 79776 |
| 234455_at | zinc finger protein 1 homolog (mouse) | ZFP1 | 162239 |
| 222407_s_at | zinc finger protein 106 homolog (mouse) | ZFP106 | 64397 |
| 232911_at | zinc finger protein 14 homolog (mouse) | ZFP14 | 57677 |
| 209724_s_at | zinc finger protein 161 homolog (mouse) | ZFP161 | 7541 |
| 240565_at | zinc finger protein 28 homolog (mouse) | ZFP28 | 140612 |
| 201531_at | zinc finger protein 36, C3H type, homolog (mouse) | ZFP36 | 7538 |
| 211962_s_at | zinc finger protein 36, C3H type-like 1 | ZFP36L1 | 677 |
| 211965_at | zinc finger protein 36, C3H type-like 1 | ZFP36L1 | 677 |
| 201369_s_at | zinc finger protein 36, C3H type-like 2 | ZFP36L2 | 678 |
| 201367_s_at | zinc finger protein 36, C3H type-like 2 | ZFP36L2 | 678 |
| 243161_x_at | zinc finger protein 42 homolog (mouse) | ZFP42 | 132625 |
| 235698_at | zinc finger protein 90 homolog (mouse) | ZFP90 | 146198 |
| 209428_s_at | zinc finger protein-like 1 | ZFPL1 | 7542 |
| 214310_s_at | zinc finger protein-like 1 | ZFPL1 | 7542 |
| 207920_x_at | zinc finger protein, X-linked | ZFX | 7543 |
| 217176_s_at | zinc finger protein, X-linked | ZFX | 7543 |
| 207247_s_at | zinc finger protein, X-linked /// zinc finger protein, Y-linked | ZFX /// ZFY | 100130829, |
| 223388_s_at | zinc finger, FYVE domain containing 1 | ZFYVE1 | 53349 |
| 203651_at | zinc finger, FYVE domain containing 16 | ZFYVE16 | 9765 |
| 1554638_at | zinc finger, FYVE domain containing 16 | ZFYVE16 | 9765 |
| 224445_s_at | zinc finger, FYVE domain containing 21 | ZFYVE21 | 79038 |

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| 37943_at | zinc finger, FYVE domain containing 26 | ZFYVE26 | 23503 |
| 221848_at | zinc finger, CCCH-type with G patch domain | ZGPAT | 84619 |
| 223214_s_at | zinc fingers and homeoboxes 1 | ZHX1 | 11244 |
| 223213_s_at | zinc fingers and homeoboxes 1 | ZHX1 | 11244 |
| 203556_at | zinc fingers and homeoboxes 2 | ZHX2 | 22882 |
| 1557706_at | zinc fingers and homeoboxes 2 | ZHX2 | 22882 |
| 214670_at | zinc finger with KRAB and SCAN domains 1 | ZKSCAN1 | 7586 |
| 213625_at | zinc finger with KRAB and SCAN domains 4 | ZKSCAN4 | 387032 |
| 226344_at | zinc finger, matrin type 1 | ZMAT1 | 84460 |
| 219628_at | zinc finger, matrin type 3 | ZMAT3 | 64393 |
| 218752_at | zinc finger, matrin type 5 | ZMAT5 | 55954 |
| 212124_at | zinc finger, MIZ-type containing 1 | ZMIZ1 | 57178 |
| 54970_at | zinc finger, MIZ-type containing 2 | ZMIZ2 | 83637 |
| 202939_at | zinc metalloproteinase (STE24 homolog, <i>S. cerevisiae</i>) | ZMPSTE24 | 10269 |
| 210282_at | zinc finger, MYM-type 2 | ZMYM2 | 7750 |
| 210281_s_at | zinc finger, MYM-type 2 | ZMYM2 | 7750 |
| 202778_s_at | zinc finger, MYM-type 2 | ZMYM2 | 7750 |
| 202050_s_at | zinc finger, MYM-type 4 | ZMYM4 | 9202 |
| 202051_s_at | zinc finger, MYM-type 4 | ZMYM4 | 9202 |
| 202049_s_at | zinc finger, MYM-type 4 | ZMYM4 | 9202 |
| 206744_s_at | zinc finger, MYM-type 5 | ZMYM5 | 9205 |
| 215948_x_at | zinc finger, MYM-type 5 | ZMYM5 | 9205 |
| 213698_at | zinc finger, MYM-type 6 | ZMYM6 | 100130633, |
| 227595_at | zinc finger, MYM-type 6 | ZMYM6 | 9204 |
| 1561892_at | zinc finger, MYM-type 6 | ZMYM6 | 9204 |
| 202136_at | zinc finger, MYND domain containing 11 | ZMYND11 | 10771 |
| 223683_at | zinc finger, MYND-type containing 15 | ZMYND15 | 84225 |
| 230533_at | zinc finger, MYND-type containing 8 | ZMYND8 | 23613 |
| 235408_x_at | zinc finger protein 117 | ZNF117 | 51351 |
| 219571_s_at | zinc finger protein 12 | ZNF12 | 7559 |
| 226015_at | zinc finger protein 12 | ZNF12 | 7559 |
| 1559881_s_at | zinc finger protein 12 | ZNF12 | 7559 |
| 1554021_a_at | zinc finger protein 12 | ZNF12 | 7559 |
| 227729_at | Zinc finger protein 134 | ZNF134 | --- |
| 207394_at | zinc finger protein 137 | ZNF137 | 7696 |
| 206931_at | zinc finger protein 141 | ZNF141 | 7700 |
| 221873_at | zinc finger protein 143 | ZNF143 | 7702 |
| 230821_at | zinc finger protein 148 | ZNF148 | 7707 |
| 203319_s_at | zinc finger protein 148 | ZNF148 | 7707 |
| 203318_s_at | zinc finger protein 148 | ZNF148 | 7707 |
| 235166_at | zinc finger protein 148 | ZNF148 | 7707 |
| 214715_x_at | zinc finger protein 160 | ZNF160 | 90338 |
| 224014_at | zinc finger protein 160 | ZNF160 | 90338 |
| 1567032_s_at | zinc finger protein 160 | ZNF160 | 90338 |
| 239954_at | zinc finger protein 160 | ZNF160 | 90338 |
| 206683_at | zinc finger protein 165 | ZNF165 | 7718 |
| 206314_at | zinc finger protein 167 | ZNF167 | 55888 |
| 1570354_s_at | zinc finger protein 169 | ZNF169 | 169841 |
| 205252_at | zinc finger protein 174 | ZNF174 | 7727 |
| 226787_at | zinc finger protein 18 | ZNF18 | 7566 |
| 203585_at | zinc finger protein 185 (LIM domain) | ZNF185 | 7739 |
| 213218_at | zinc finger protein 187 | ZNF187 | 7741 |
| 206579_at | zinc finger protein 192 | ZNF192 | 7745 |
| 204234_s_at | zinc finger protein 195 | ZNF195 | 7748 |
| 223792_at | zinc finger protein 2 | ZNF2 | 7549 |
| 214706_at | zinc finger protein 200 | ZNF200 | 7752 |
| 200829_x_at | zinc finger protein 207 | ZNF207 | 7756 |
| 200828_s_at | zinc finger protein 207 | ZNF207 | 7756 |
| 239937_at | Zinc finger protein 207 | ZNF207 | 7756 |
| 220497_at | zinc finger protein 214 | ZNF214 | 7761 |
| 203739_at | zinc finger protein 217 | ZNF217 | 7764 |
| 218005_at | zinc finger protein 22 (KOX 15) | ZNF22 | 7570 |
| 206175_x_at | zinc finger protein 222 | ZNF222 | 7673 |

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| 207128_s_at | zinc finger protein 223 | ZNF223 | 7766 |
| 222947_at | Zinc finger protein 224 | ZNF224 | 7767 |
| 235702_at | Zinc finger protein 225 | ZNF225 | --- |
| 224004_at | zinc finger protein 226 | ZNF226 | 7769 |
| 233461_x_at | zinc finger protein 226 | ZNF226 | 7769 |
| 222237_s_at | zinc finger protein 228 | ZNF228 | 7771 |
| 205791_x_at | zinc finger protein 230 | ZNF230 | 7773 |
| 219123_at | zinc finger protein 232 | ZNF232 | 7775 |
| 219171_s_at | zinc finger protein 236 | ZNF236 | 7776 |
| 47571_at | zinc finger protein 236 | ZNF236 | 7776 |
| 242210_at | Zinc finger protein 24 | ZNF24 | 7572 |
| 203247_s_at | zinc finger protein 24 | ZNF24 | 7572 |
| 1554045_at | zinc finger protein 24 | ZNF24 | 7572 |
| 1569557_at | zinc finger protein 248 | ZNF248 | 57209 |
| 206900_x_at | zinc finger protein 253 | ZNF253 | 56242 |
| 236133_x_at | zinc finger protein 254 | ZNF254 | 9534 |
| 242602_x_at | zinc finger protein 254 | ZNF254 | 9534 |
| 210697_at | zinc finger protein 257 | ZNF257 | 113835 |
| 228920_at | zinc finger protein 260 | ZNF260 | 339324 |
| 205917_at | zinc finger protein 264 | ZNF264 | 9422 |
| 219540_at | zinc finger protein 267 | ZNF267 | 10308 |
| 209989_at | zinc finger protein 268 | ZNF268 | 10795 |
| 204937_s_at | zinc finger protein 274 | ZNF274 | 10782 |
| 225383_at | zinc finger protein 275 | ZNF275 | 10838 |
| 218645_at | zinc finger protein 277 pseudogene | ZNF277P | 11179 |
| 1555193_a_at | zinc finger protein 277 pseudogene | ZNF277P | 11179 |
| 1567853_at | zinc finger protein 28 | ZNF28 | 7576 |
| 228785_at | Zinc finger protein 281 | ZNF281 | 23528 |
| 222619_at | zinc finger protein 281 | ZNF281 | 23528 |
| 236328_at | zinc finger protein 285A | ZNF285A | 26974 |
| 220055_at | zinc finger protein 287 | ZNF287 | 57336 |
| 211975_at | zinc finger protein 289, ID1 regulated | ZNF289 | 84364 |
| 212368_at | zinc finger protein 292 | ZNF292 | 23036 |
| 212366_at | zinc finger protein 292 | ZNF292 | 23036 |
| 215596_s_at | zinc finger protein 294 | ZNF294 | 26046 |
| 233952_s_at | zinc finger protein 295 | ZNF295 | 49854 |
| 225539_at | zinc finger protein 295 | ZNF295 | 49854 |
| 212684_at | zinc finger protein 3 | ZNF3 | 7551 |
| 232014_at | zinc finger protein 30 | ZNF30 | 90075 |
| 218490_s_at | zinc finger protein 302 | ZNF302 | 55900 |
| 228393_s_at | zinc finger protein 302 | ZNF302 | 55900 |
| 228392_at | zinc finger protein 302 | ZNF302 | 55900 |
| 200868_s_at | zinc finger protein 313 | ZNF313 | 55905 |
| 203520_s_at | zinc finger protein 318 | ZNF318 | 24149 |
| 228460_at | zinc finger protein 319 | ZNF319 | 57567 |
| 229614_at | zinc finger protein 320 | ZNF320 | 162967 |
| 241704_x_at | zinc finger protein 320 | ZNF320 | 162967 |
| 227980_at | zinc finger protein 322A | ZNF322A | 79692 |
| 219376_at | zinc finger protein 322B | ZNF322B | 387328 |
| 227613_at | zinc finger protein 331 | ZNF331 | 55422 |
| 219228_at | zinc finger protein 331 | ZNF331 | 55422 |
| 1552375_at | zinc finger protein 333 | ZNF333 | 84449 |
| 1563783_a_at | zinc finger protein 333 | ZNF333 | 84449 |
| 1569251_a_at | zinc finger protein 333 | ZNF333 | 84449 |
| 37860_at | zinc finger protein 337 | ZNF337 | 26152 |
| 224276_at | zinc finger protein 33A | ZNF33A | 7581 |
| 206096_at | zinc finger protein 35 | ZNF35 | 7584 |
| 1553612_at | zinc finger protein 354B | ZNF354B | 117608 |
| 206448_at | zinc finger protein 365 | ZNF365 | 22891 |
| 229551_x_at | zinc finger protein 367 | ZNF367 | 195828 |
| 228711_at | zinc finger protein 37A | ZNF37A | 7587 |
| 214878_at | zinc finger protein 37A /// zinc finger protein 37B | ZNF37A /// ZNF37E | 100129482 , |
| 215358_x_at | zinc finger protein 37B | ZNF37B | 100129482 , |

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|--------------|--------------------------|---------|--------------|
| 214714_at | zinc finger protein 394 | ZNF394 | 84124 |
| 218149_s_at | zinc finger protein 395 | ZNF395 | 55893 |
| 221123_x_at | zinc finger protein 395 | ZNF395 | 55893 |
| 232694_at | zinc finger protein 395 | ZNF395 | 55893 |
| 222536_s_at | zinc finger protein 395 | ZNF395 | 55893 |
| 1555166_a_at | zinc finger protein 396 | ZNF396 | 252884 |
| 1552825_at | zinc finger protein 396 | ZNF396 | 252884 |
| 228927_at | zinc finger protein 397 | ZNF397 | 84307 |
| 235271_s_at | zinc finger protein 397 | ZNF397 | 100101467 |
| 207699_at | zinc finger protein 409 | ZNF409 | 22830 |
| 238937_at | zinc finger protein 420 | ZNF420 | 147923 |
| 244752_at | zinc finger protein 438 | ZNF438 | 220929 |
| 229743_at | zinc finger protein 438 | ZNF438 | 220929 |
| 228718_at | zinc finger protein 44 | ZNF44 | 51710 |
| 222028_at | zinc finger protein 45 | ZNF45 | 7596 |
| 214746_s_at | zinc finger protein 467 | ZNF467 | 168544 |
| 214751_at | zinc finger protein 468 | ZNF468 | 90333 |
| 1555368_x_at | zinc finger protein 479 | ZNF479 | 90827 |
| 1555367_at | zinc finger protein 479 | ZNF479 | 90827 |
| 1553901_x_at | zinc finger protein 486 | ZNF486 | 90649 |
| 215532_x_at | zinc finger protein 492 | ZNF492 | 57615 |
| 235604_x_at | zinc finger protein 493 | ZNF493 | 284443 |
| 206053_at | zinc finger protein 510 | ZNF510 | 22869 |
| 225050_at | zinc finger protein 512 | ZNF512 | 84450 |
| 55872_at | zinc finger protein 512B | ZNF512B | 57473 |
| 235729_at | zinc finger protein 514 | ZNF514 | 84874 |
| 203604_at | zinc finger protein 516 | ZNF516 | 9658 |
| 204291_at | zinc finger protein 518 | ZNF518 | 9849 |
| 244132_x_at | Zinc finger protein 518 | ZNF518 | 9849 |
| 1568873_at | zinc finger protein 519 | ZNF519 | 162655 |
| 1557283_a_at | zinc finger protein 519 | ZNF519 | 162655 |
| 215307_at | Zinc finger protein 529 | ZNF529 | 57711 |
| 225021_at | zinc finger protein 532 | ZNF532 | 55205 |
| 240191_at | Zinc finger protein 543 | ZNF543 | 125919 |
| 218735_s_at | zinc finger protein 544 | ZNF544 | 27300 |
| 1553718_at | zinc finger protein 548 | ZNF548 | 147694 |
| 228099_at | zinc finger protein 550 | ZNF550 | 162972 |
| 211721_s_at | zinc finger protein 551 | ZNF551 | 90233 |
| 219741_x_at | zinc finger protein 552 | ZNF552 | 79818 |
| 220444_at | zinc finger protein 557 | ZNF557 | 79230 |
| 227810_at | zinc finger protein 558 | ZNF558 | 148156 |
| 242429_at | zinc finger protein 567 | ZNF567 | 163081 |
| 217627_at | zinc finger protein 573 | ZNF573 | 126231 |
| 218762_at | zinc finger protein 574 | ZNF574 | 64763 |
| 1563725_at | zinc finger protein 583 | ZNF583 | 147949 |
| 1553221_at | zinc finger protein 583 | ZNF583 | 147949 |
| 1554824_at | zinc finger protein 585A | ZNF585A | 199704 |
| 1554665_at | Zinc finger protein 587 | ZNF587 | 54807 |
| 1558253_x_at | zinc finger protein 587 | ZNF587 | 84914 |
| 1569108_a_at | zinc finger protein 589 | ZNF589 | 51385 |
| 230542_at | zinc finger protein 597 | ZNF597 | 146434 |
| 225104_at | zinc finger protein 598 | ZNF598 | 90850 |
| 1558391_s_at | zinc finger protein 599 | ZNF599 | 148103 |
| 242463_x_at | zinc finger protein 600 | ZNF600 | 162966 |
| 219635_at | zinc finger protein 606 | ZNF606 | 80095 |
| 229707_at | zinc finger protein 606 | ZNF606 | 80095 |
| 235953_at | zinc finger protein 610 | ZNF610 | 162963 |
| 220721_at | zinc finger protein 614 | ZNF614 | 80110 /// 96 |
| 1558620_at | zinc finger protein 621 | ZNF621 | 285268 |
| 1560075_at | Zinc finger protein 622 | ZNF622 | 90441 |
| 222624_s_at | zinc finger protein 639 | ZNF639 | 51193 |
| 1553725_s_at | zinc finger protein 644 | ZNF644 | 84146 |
| 1552967_at | zinc finger protein 645 | ZNF645 | 158506 |

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|--------------|---|---------------------|--------------|
| 244121_at | Zinc finger protein 650 | ZNF650 | 130507 |
| 235577_at | Zinc finger protein 652 | ZNF652 | --- |
| 205594_at | zinc finger protein 652 | ZNF652 | 22834 |
| 228864_at | zinc finger protein 653 | ZNF653 | 115950 |
| 241348_at | zinc finger protein 654 | ZNF654 | 55279 |
| 219239_s_at | zinc finger protein 654 | ZNF654 | 55279 |
| 1556744_a_at | zinc finger protein 654 | ZNF654 | --- |
| 242017_at | zinc finger protein 654 | ZNF654 | --- |
| 222851_at | zinc finger protein 654 | ZNF654 | 55279 |
| 1556743_at | zinc finger protein 654 | ZNF654 | --- |
| 225945_at | zinc finger protein 655 | ZNF655 | 79027 |
| 1569935_at | Zinc finger protein 664 | ZNF664 | 144348 |
| 220760_x_at | zinc finger protein 665 | ZNF665 | 79788 |
| 222509_s_at | zinc finger protein 672 | ZNF672 | 79894 |
| 1554465_s_at | zinc finger protein 673 /// zinc finger protein 674 | ZNF673 /// ZNF674 | 55634 /// 64 |
| 1554922_at | zinc finger protein 678 | ZNF678 | 339500 |
| 232028_at | Zinc finger protein 678 | ZNF678 | 339500 |
| 229533_x_at | zinc finger protein 680 | ZNF680 | 340252 |
| 242915_at | zinc finger protein 682 | ZNF682 | 91120 |
| 227132_at | zinc finger protein 706 | ZNF706 | 51123 |
| 242028_at | zinc finger protein 709 | ZNF709 | 163051 |
| 229986_at | zinc finger protein 717 | ZNF717 | --- |
| 227952_at | Zinc finger protein 718 | ZNF718 | --- |
| 228029_at | zinc finger protein 721 | ZNF721 | 170960 |
| 225848_at | zinc finger protein 746 | ZNF746 | 155061 |
| 213659_at | zinc finger protein 75 (D8C6) | ZNF75 | 7626 |
| 214813_at | zinc finger protein 75 (D8C6) | ZNF75 | 7626 |
| 1553225_s_at | zinc finger protein 75 (D8C6) | ZNF75 | 7626 |
| 227670_at | zinc finger protein 75a | ZNF75A | 7627 |
| 1558943_x_at | zinc finger protein 765 | ZNF765 | 91661 |
| 1558942_at | zinc finger protein 765 | ZNF765 | 91661 |
| 227284_at | zinc finger protein 766 | ZNF766 | 90321 |
| 219627_at | zinc finger family member 767 | ZNF767 | 79970 |
| 225517_at | zinc finger protein 770 | ZNF770 | 54989 |
| 215570_s_at | zinc finger protein 780B /// zinc finger protein 780A | ZNF780A /// ZNF780B | 163131 /// 1 |
| 1554770_x_at | zinc finger protein 785 | ZNF785 | 146540 |
| 239083_at | zinc finger protein 786 | ZNF786 | 136051 |
| 227101_at | zinc finger protein 800 | ZNF800 | 168850 |
| 238148_s_at | zinc finger protein 818 | ZNF818 | 390963 |
| 221645_s_at | zinc finger protein 83 | ZNF83 | 55769 |
| 204453_at | zinc finger protein 84 | ZNF84 | 7637 |
| 206572_x_at | zinc finger protein 85 | ZNF85 | 7639 |
| 236128_at | zinc finger protein 91 | ZNF91 | 7644 |
| 235170_at | zinc finger protein 92 | ZNF92 | 168374 |
| 1569241_a_at | zinc finger protein 93 | ZNF93 | 81931 |
| 1553885_x_at | zinc finger protein 99 | ZNF99 | 7652 |
| 201541_s_at | zinc finger, HIT type 1 | ZNHIT1 | 10467 |
| 226261_at | zinc and ring finger 2 | ZNRF2 | 223082 |
| 226360_at | zinc and ring finger 3 | ZNRF3 | 84133 |
| 207021_at | zona pellucida binding protein | ZPBP | 11055 |
| 1561969_at | zona pellucida-like domain containing 1 | ZPLD1 | 131368 |
| 213097_s_at | zuotin related factor 1 | ZRF1 | 27000 |
| 206507_at | zinc finger and SCAN domain containing 12 | ZSCAN12 | 9753 |
| 231188_at | zinc finger and SCAN domain containing 2 | ZSCAN2 | 54993 |
| 226562_at | zinc finger and SCAN domain containing 29 | ZSCAN29 | 146050 |
| 222606_at | Zwilch, kinetochore associated, homolog (Drosophila) | ZWILCH | 55055 |
| 204026_s_at | ZW10 interactor | ZWINT | 11130 |
| 230106_at | ZXD family zinc finger C | ZXDC | 79364 |
| 227918_s_at | zyg-11 homolog B (C. elegans) | ZYG11B | 79699 |
| 225338_at | zyg-11 homolog B (C. elegans) | ZYG11B | 79699 |
| 215706_x_at | zyxin | ZYX | 7791 |
| 200808_s_at | zyxin | ZYX | 7791 |
| 207190_at | zinc finger, ZZ-type with EF-hand domain 1 | ZZEF1 | 23140 |

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|--------------|---|-------|------------------|
| 212601_at | zinc finger, ZZ-type with EF-hand domain 1 | ZZEF1 | 23140 |
| 212893_at | zinc finger, ZZ-type containing 3 | ZZZ3 | 26009 |
| 213256_at | membrane-associated ring finger (C3HC4) 3 | | 39144 100133609, |
| 218582_at | membrane-associated ring finger (C3HC4) 5 | | 39146 54708 |
| 201737_s_at | membrane-associated ring finger (C3HC4) 6 | | 39147 10299 |
| 215512_at | membrane-associated ring finger (C3HC4) 6 | | 39147 10299 |
| 201736_s_at | membrane-associated ring finger (C3HC4) 6 | | 39147 10299 |
| 202653_s_at | membrane-associated ring finger (C3HC4) 7 | | 39148 64844 |
| 200778_s_at | septin 2 | | 39327 4735 |
| 1554747_a_at | septin 2 | | 39327 4735 |
| 1555526_a_at | septin 6 | | 39331 23157 |
| 244508_at | Septin 7 | | 39332 989 |
| 208657_s_at | septin 9 | | 39334 10801 |
| 239076_at | septin 13 | | 39338 641977 |
| 200902_at | 15 kDa selenoprotein | | 39340 9403 |
| 235529_x_at | Full-length cDNA clone CS0DI067YM20 of Placenta Cot 25-normalized of Homo :--- | | --- |
| 235964_x_at | Full-length cDNA clone CS0DI067YM20 of Placenta Cot 25-normalized of Homo :--- | | --- |
| 213294_at | Full-length cDNA clone CS0DK002YF13 of HeLa cells Cot 25-normalized of Homo --- | | 5610 |
| 244434_at | --- | --- | --- |
| 231145_at | Transcribed locus | --- | --- |
| 242005_at | Transcribed locus | --- | --- |
| 234987_at | Full-length cDNA clone CS0DI067YM20 of Placenta Cot 25-normalized of Homo :--- | | --- |
| 231688_at | Transcribed locus | --- | 4317 |
| 240655_at | --- | --- | --- |
| 243366_s_at | Transcribed locus | --- | --- |
| 237332_at | Transcribed locus | --- | --- |
| 1570136_at | Homo sapiens, clone IMAGE:4179922, mRNA | --- | --- |
| 1561713_at | CDNA clone IMAGE:5269990 | --- | --- |
| 242398_x_at | Transcribed locus | --- | --- |
| 236034_at | --- | --- | 285 |
| 238744_at | Transcribed locus | --- | --- |
| 1556936_at | Homo sapiens, clone IMAGE:5309572, mRNA | --- | --- |
| 242881_x_at | Clone HLS_IMAGE_626842 mRNA sequence | --- | --- |
| 1562342_at | MRNA; cDNA DKFZp667G1416 (from clone DKFZp667G1416) | --- | --- |
| 233784_at | CDNA: FLJ22733 fis, clone HSI15907 | --- | --- |
| 243566_at | Transcribed locus | --- | --- |
| 1562634_at | Homo sapiens, clone IMAGE:5169164, mRNA | --- | --- |
| 228792_at | CDNA FLJ11602 fis, clone HEMBA1003908 | --- | --- |
| 243005_at | Transcribed locus | --- | --- |
| 237185_at | Transcribed locus | --- | --- |
| 1561143_at | Full length insert cDNA clone ZD46F01 | --- | --- |
| 220729_at | --- | --- | --- |
| 227140_at | CDNA FLJ11041 fis, clone PLACE1004405 | --- | --- |
| 235831_at | Transcribed locus | --- | --- |
| 1562918_at | CDNA clone IMAGE:4523522 | --- | --- |
| 240985_at | Transcribed locus | --- | --- |
| 243332_at | Transcribed locus | --- | --- |
| 1564567_at | CDNA: FLJ23224 fis, clone ADSU02206 | --- | --- |
| 238501_at | Transcribed locus | --- | --- |
| 242715_at | Transcribed locus | --- | --- |
| 239709_at | Transcribed locus | --- | --- |
| 237301_at | Transcribed locus | --- | --- |
| 1556884_a_at | CDNA clone IMAGE:5271996 | --- | --- |
| 1561368_at | Homo sapiens, clone IMAGE:5194369, mRNA | --- | --- |
| 1553575_at | --- | --- | 4541 |
| 1561692_at | CDNA clone IMAGE:4828841 | --- | --- |
| 241951_at | Transcribed locus | --- | --- |
| 1566637_at | MRNA; cDNA DKFZp761H2217 (from clone DKFZp761H2217) | --- | --- |
| 232538_at | CDNA: FLJ23573 fis, clone LNG12520 | --- | --- |
| 243578_at | Transcribed locus | --- | --- |
| 236164_at | Transcribed locus | --- | --- |
| 243303_at | CDNA FLJ40827 fis, clone TRACH2011500 | --- | --- |
| 239673_at | Transcribed locus | --- | --- |

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|--------------|---|-----|------------|
| 242937_at | --- | --- | 3607 |
| 237548_at | Transcribed locus | --- | --- |
| 241186_at | Transcribed locus | --- | --- |
| 233364_s_at | CDNA FLJ38472 fis, clone FEBRA2022148 | --- | --- |
| 233788_at | CDNA FLJ11617 fis, clone HEMBA1004045 | --- | --- |
| 227769_at | Transcribed locus | --- | --- |
| 233757_x_at | CDNA: FLJ23253 fis, clone COL04706 | --- | --- |
| 1561415_at | CDNA FLJ35886 fis, clone TESTI2009091 | --- | --- |
| 243462_s_at | Transcribed locus | --- | --- |
| 241808_at | CDNA FLJ36977 fis, clone BRACE2006344 | --- | --- |
| 236353_at | CDNA FLJ43467 fis, clone OCBBF2036752 | --- | --- |
| 244503_at | Transcribed locus | --- | --- |
| 1560144_at | CDNA clone IMAGE:5271374 | --- | --- |
| 238318_at | --- | --- | --- |
| 228315_at | CDNA clone IMAGE:5261213 | --- | --- |
| 1564841_at | MRNA; cDNA DKFZp761G0323 (from clone DKFZp761G0323) | --- | --- |
| 228655_at | Unknown mRNA sequence | --- | --- |
| 240433_x_at | CDNA clone IMAGE:4811412 | --- | --- |
| 1561639_at | Full length insert cDNA clone YP51C12 | --- | --- |
| 225611_at | --- | --- | 100128443, |
| 233513_at | CDNA FLJ12999 fis, clone NT2RP3000324 | --- | --- |
| 1559889_at | Homo sapiens, clone IMAGE:3932221, mRNA | --- | --- |
| 240128_at | Transcribed locus | --- | --- |
| 1562933_at | CDNA clone IMAGE:4794367 | --- | --- |
| 239025_at | Clone HLS_IMAGE_1554917 mRNA sequence | --- | --- |
| 1561229_at | CDNA clone IMAGE:4824292 | --- | --- |
| 229951_x_at | Transcribed locus | --- | --- |
| 241834_at | Full-length cDNA clone CS0DC013YI04 of Neuroblastoma Cot 25-normalized of t | --- | 3653 |
| 1558019_at | Homo sapiens, clone IMAGE:4732650, mRNA | --- | --- |
| 238174_at | Transcribed locus | --- | --- |
| 224080_at | --- | --- | --- |
| 243627_at | Transcribed locus | --- | --- |
| 234137_s_at | CDNA FLJ11960 fis, clone HEMBB1001008 | --- | --- |
| 1560034_a_at | MRNA; cDNA DKFZp313E1515 (from clone DKFZp313E1515) | --- | --- |
| 230383_x_at | Transcribed locus | --- | --- |
| 236202_at | Transcribed locus | --- | --- |
| 1569609_at | CDNA clone IMAGE:4422069 | --- | --- |
| 240188_at | --- | --- | --- |
| 243504_at | Transcribed locus | --- | --- |
| 1562755_at | CDNA clone IMAGE:5286775 | --- | --- |
| 231031_at | --- | --- | 654466 |
| 1561212_at | CDNA clone IMAGE:4826097 | --- | --- |
| 230336_at | Transcribed locus | --- | --- |
| 220870_at | --- | --- | --- |
| 1560391_at | MRNA; cDNA DKFZp667D1513 (from clone DKFZp667D1513) | --- | --- |
| 1558496_at | Homo sapiens, clone IMAGE:5167229, mRNA | --- | --- |
| 1555929_s_at | Transcribed locus | --- | --- |
| 242007_at | Primary neuroblastoma cDNA, clone:Nbla03526, full insert sequence | --- | --- |
| 1562656_at | CDNA clone IMAGE:5248626 | --- | --- |
| 227499_at | --- | --- | --- |
| 242310_at | Transcribed locus | --- | --- |
| 216728_at | MRNA; cDNA DKFZp434D179 (from clone DKFZp434D179) | --- | --- |
| 1570155_at | Homo sapiens, clone IMAGE:4427279, mRNA | --- | --- |
| 243983_at | Transcribed locus | --- | --- |
| 243007_at | CDNA FLJ43181 fis, clone FCBBF3016134 | --- | --- |
| 239664_at | Transcribed locus | --- | --- |
| 244359_s_at | Clone HLS_IMAGE_1699118 mRNA sequence | --- | --- |
| 1560924_at | CDNA FLJ33351 fis, clone BRACE2005063 | --- | --- |
| 228731_at | CDNA clone IMAGE:5273964 | --- | --- |
| 215962_at | EST clone 22453 mariner transposon Hsmar1 sequence | --- | --- |
| 1559835_at | Homo sapiens, clone IMAGE:5213378, mRNA | --- | --- |
| 228562_at | Transcribed locus | --- | --- |
| 243780_at | CDNA FLJ46553 fis, clone THYMU3038879 | --- | --- |

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| 231615_at | Transcribed locus | --- | --- |
| 235123_at | Transcribed locus | --- | --- |
| 237602_at | Transcribed locus | --- | --- |
| 215473_at | Clone 23758 mRNA sequence | --- | --- |
| 237771_s_at | Transcribed locus | --- | --- |
| 227126_at | Transcribed locus | --- | --- |
| 238964_at | Transcribed locus | --- | 55137 |
| 241653_x_at | Transcribed locus | --- | --- |
| 229131_at | --- | --- | --- |
| 242532_at | --- | --- | --- |
| 242488_at | CDNA FLJ38396 fis, clone FEBRA2007957 | --- | --- |
| 240366_at | Transcribed locus | --- | 100129562 |
| 1568872_at | CDNA clone IMAGE:4823221 | --- | --- |
| 242150_at | Transcribed locus | --- | --- |
| 236010_at | Transcribed locus | --- | --- |
| 244867_at | Transcribed locus | --- | --- |
| 241685_x_at | Transcribed locus | --- | --- |
| 228694_at | Homo sapiens, clone IMAGE:3352913, mRNA | --- | --- |
| 1561778_at | MRNA upregulated during camptothecin-induced apoptosis of U937 cells | --- | --- |
| 227462_at | --- | --- | 64167 |
| 244612_at | --- | --- | --- |
| 1556649_at | --- | --- | --- |
| 1559697_a_at | Full length insert cDNA clone YW24B11 | --- | --- |
| 1561004_at | Full length insert cDNA clone YY74A01 | --- | --- |
| 241898_at | Transcribed locus | --- | --- |
| 244107_at | --- | --- | --- |
| 1570623_at | --- | --- | --- |
| 1560760_s_at | Homo sapiens, clone IMAGE:5587935, mRNA | --- | --- |
| 232805_at | CDNA FLJ11973 fis, clone HEMBB1001221 | --- | --- |
| 229629_at | Transcribed locus | --- | --- |
| 1555989_at | Transcribed locus | --- | --- |
| 1562332_at | CDNA clone IMAGE:5302406 | --- | --- |
| 243271_at | Transcribed locus | --- | --- |
| 1560025_at | CDNA FLJ37325 fis, clone BRAMY2018295 | --- | --- |
| 1561856_at | CDNA clone IMAGE:4792693 | --- | --- |
| 234277_at | --- | --- | --- |
| 1563038_at | Homo sapiens, clone IMAGE:3917623, mRNA | --- | --- |
| 242536_at | Transcribed locus | --- | --- |
| 221144_at | --- | --- | --- |
| 243232_at | Transcribed locus | --- | --- |
| 233118_at | CDNA: FLJ21358 fis, clone COL02842 | --- | --- |
| 1569736_at | CDNA clone IMAGE:5264099 | --- | --- |
| 228273_at | Transcribed locus | --- | --- |
| 240016_at | Transcribed locus | --- | --- |
| 1566166_at | MRNA; cDNA DKFZp313H2139 (from clone DKFZp313H2139) | --- | --- |
| 1562828_at | CDNA clone IMAGE:4799094 | --- | --- |
| 1560346_at | MRNA; cDNA DKFZp564D032 (from clone DKFZp564D032) | --- | --- |
| 230764_at | CDNA FLJ30669 fis, clone FCBBF1000684 | --- | --- |
| 244579_at | Transcribed locus | --- | --- |
| 243646_at | --- | --- | --- |
| 240217_s_at | Transcribed locus | --- | --- |
| 244097_at | --- | --- | 1380 |
| 1556331_a_at | CDNA clone IMAGE:5259142 | --- | --- |
| 243888_at | Transcribed locus | --- | --- |
| 227646_at | CDNA FLJ39389 fis, clone PLACE6003621 | --- | 1879 |
| 1566763_at | CDNA clone IMAGE:5277680 | --- | --- |
| 239516_at | Transcribed locus | --- | --- |
| 233932_at | EST from clone 1206988, full insert | --- | --- |
| 221076_at | --- | --- | --- |
| 235693_at | Transcribed locus | --- | --- |
| 230300_at | CDNA FLJ42315 fis, clone TRACH2019661 | --- | --- |
| 1559804_at | CDNA FLJ36051 fis, clone TESTI2018083 | --- | --- |
| 1558122_s_at | CDNA FLJ39178 fis, clone OCBBF2004104 | --- | --- |

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| 227458_at | --- | --- | --- |
| 239333_x_at | CDNA FLJ30541 fis, clone BRAWH2001355 | --- | --- |
| 231464_at | Transcribed locus | --- | --- |
| 236125_at | CDNA FLJ31332 fis, clone MAMGL1000096 | --- | --- |
| 1566032_at | MRNA; cDNA DKFZp686J0929 (from clone DKFZp686J0929) | --- | --- |
| 227934_at | --- | --- | 3841 |
| 1564851_at | CDNA: FLJ20951 fis, clone ADSE01942 | --- | --- |
| 224081_at | --- | --- | --- |
| 1570269_at | Homo sapiens, clone IMAGE:4700331, mRNA | --- | --- |
| 243278_at | Transcribed locus | --- | 93986 |
| 1557029_at | CDNA clone IMAGE:4822878 | --- | --- |
| 244094_at | Transcribed locus | --- | --- |
| 1560500_at | CDNA clone IMAGE:5299346 | --- | --- |
| 242777_at | Transcribed locus | --- | --- |
| 1561624_at | CDNA clone IMAGE:5270007 | --- | --- |
| 1561417_x_at | CDNA FLJ35886 fis, clone TESTI2009091 | --- | --- |
| 1555893_at | CDNA clone IMAGE:5267578 | --- | --- |
| 1562111_at | CDNA clone IMAGE:5303859 | --- | --- |
| 242579_at | Transcribed locus | --- | 658 |
| 233282_at | CDNA FLJ13333 fis, clone OVARC1001828 | --- | --- |
| 233793_at | CDNA FLJ11668 fis, clone HEMBA1004705 | --- | --- |
| 233205_at | Ntera2D1 cell line mRNA containing L1 retroposon, clone P7 | --- | --- |
| 241858_at | CDNA FLJ44346 fis, clone TRACH3005808, highly similar to Homo sapiens p150 | --- | --- |
| 242468_at | --- | --- | --- |
| 213803_at | Transcribed locus | --- | 3837 |
| 243032_at | Transcribed locus | --- | --- |
| 226223_at | Transcribed locus | --- | --- |
| 232833_at | Clone 24425 mRNA sequence | --- | --- |
| 217132_at | Clone 24587 mRNA sequence | --- | --- |
| 235118_at | CDNA clone IMAGE:4811412 | --- | --- |
| 231482_at | MRNA; cDNA DKFZp781G0123 (from clone DKFZp781G0123) | --- | --- |
| 1563941_at | --- | --- | --- |
| 233365_at | CDNA FLJ12285 fis, clone MAMMA1001764 | --- | --- |
| 1567101_at | Full length insert cDNA clone YB38D04 | --- | --- |
| 241745_at | Full-length cDNA clone CS0DI029YI16 of Placenta Cot 25-normalized of Homo sa | --- | --- |
| 1557772_at | CDNA clone IMAGE:4826031 | --- | --- |
| 238530_at | --- | --- | 23530 |
| 242333_at | Transcribed locus | --- | --- |
| 1557645_at | CDNA clone IMAGE:4826526 | --- | --- |
| 234753_x_at | --- | --- | --- |
| 1553498_at | --- | --- | --- |
| 234331_s_at | --- | --- | 151354 |
| 240649_at | Transcribed locus | --- | --- |
| 230201_at | Transcribed locus | --- | --- |
| 1561705_at | CDNA clone IMAGE:5272626 | --- | --- |
| 230003_at | Transcribed locus | --- | --- |
| 1569601_at | CDNA clone IMAGE:3935451 | --- | --- |
| 243824_at | Homo sapiens, clone IMAGE:5213378, mRNA | --- | --- |
| 235215_at | Transcribed locus | --- | 2072 |
| 229757_at | Transcribed locus | --- | --- |
| 227779_at | Transcribed locus, weakly similar to XP_001070120.1 hypothetical protein [Ratt | --- | 641700 |
| 243907_at | Transcribed locus | --- | --- |
| 227524_at | --- | --- | --- |
| 239292_at | Transcribed locus | --- | --- |
| 242899_at | MRNA; cDNA DKFZp313B1017 (from clone DKFZp313B1017) | --- | --- |
| 220874_at | --- | --- | --- |
| 241240_at | Transcribed locus | --- | --- |
| 1564760_at | CDNA clone IMAGE:4694535 | --- | --- |
| 1566862_at | CDNA clone IMAGE:5310996 | --- | --- |
| 236409_at | Transcribed locus | --- | --- |
| 235919_at | Transcribed locus | --- | --- |
| 238146_at | Transcribed locus | --- | --- |
| 238632_at | Full length insert cDNA clone ZD51F08 | --- | --- |

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|--------------|--|-----|-----------|
| 232773_at | CDNA: FLJ21440 fis, clone COL04389 | --- | --- |
| 233401_at | CDNA FLJ11892 fis, clone HEMBA1007281 | --- | --- |
| 1559514_at | CDNA FLJ37869 fis, clone BRSSN2017422 | --- | 100132077 |
| 232800_at | PNAS-130 | --- | --- |
| 228826_at | Homo sapiens, clone IMAGE:5215917, mRNA | --- | --- |
| 228780_at | MRNA, clone ICRFp507B0451 | --- | --- |
| 1561938_at | MRNA; cDNA DKFZp313A1935 (from clone DKFZp313A1935) | --- | --- |
| 1562880_at | CDNA clone IMAGE:5297280 | --- | --- |
| 1562476_at | MRNA; cDNA DKFZp313C2339 (from clone DKFZp313C2339) | --- | --- |
| 229530_at | CDNA clone IMAGE:5302158 | --- | 2982 |
| 236451_at | CDNA FLJ14635 fis, clone NT2RP2001196 | --- | --- |
| 234015_at | CDNA FLJ10239 fis, clone HEMBB1000589 | --- | --- |
| 234104_at | CDNA FLJ10198 fis, clone HEMBA1004806 | --- | --- |
| 1557433_at | CDNA FLJ38907 fis, clone NT2NE2005276 | --- | --- |
| 230791_at | CDNA FLJ12033 fis, clone HEMBB1001899 | --- | --- |
| 241218_at | Homo sapiens, clone IMAGE:5761701, mRNA | --- | --- |
| 1559723_s_at | CDNA clone IMAGE:4830182 | --- | --- |
| 1561242_at | CDNA clone IMAGE:5275263 | --- | --- |
| 1561363_a_at | CDNA FLJ36285 fis, clone THYMU2003470 | --- | --- |
| 242605_at | Transcribed locus | --- | --- |
| 242681_at | Transcribed locus | --- | --- |
| 233455_at | MRNA; cDNA DKFZp564H072 (from clone DKFZp564H072) | --- | --- |
| 240636_at | Transcribed locus | --- | --- |
| 216211_at | MRNA; cDNA DKFZp564A023 (from clone DKFZp564A023) | --- | --- |
| 227663_at | CDNA FLJ40901 fis, clone UTERU2003704 | --- | --- |
| 229994_at | CDNA FLJ39164 fis, clone OCBBF2002656 | --- | --- |
| 216012_at | Unidentified mRNA, partial sequence | --- | --- |
| 240204_at | --- | --- | 6638 |
| 239046_at | Transcribed locus | --- | --- |
| 240658_at | Transcribed locus | --- | --- |
| 232174_at | CDNA: FLJ21635 fis, clone COL08233, highly similar to AF131819 Homo sapiens | --- | --- |
| 1562719_at | CDNA clone IMAGE:5297905 | --- | --- |
| 244532_x_at | Clone HLS_IMAGE_1699118 mRNA sequence | --- | --- |
| 232242_at | CDNA clone IMAGE:5298411 | --- | --- |
| 1561905_at | CDNA clone IMAGE:4820434 | --- | --- |
| 1570482_at | Pp14356 | --- | --- |
| 1570579_at | CDNA clone IMAGE:5274593 | --- | --- |
| 1554220_a_at | Full-length cDNA clone CSODK005YB04 of HeLa cells Cot 25-normalized of Homc | --- | --- |
| 229506_at | CDNA clone IMAGE:5263177 | --- | --- |
| 225123_at | MRNA; cDNA DKFZp313B1017 (from clone DKFZp313B1017) | --- | --- |
| 232715_at | CDNA FLJ11544 fis, clone HEMBA1002826 | --- | --- |
| 231239_at | Transcribed locus | --- | --- |
| 236068_s_at | Transcribed locus | --- | --- |
| 236740_at | Transcribed locus | --- | --- |
| 1561754_at | Full length insert cDNA clone ZA88B06 | --- | --- |
| 222970_at | --- | --- | --- |
| 241291_at | CDNA FLJ36657 fis, clone UTERU2001876 | --- | --- |
| 226365_at | CDNA FLJ40901 fis, clone UTERU2003704 /// Clone HLS_IMAGE_767345 mRNA | --- | --- |
| 1568919_at | CDNA clone IMAGE:5266449 | --- | --- |
| 1561731_at | CDNA clone IMAGE:5268630 | --- | --- |
| 242755_at | --- | --- | --- |
| 234034_at | MRNA; cDNA DKFZp761F052 (from clone DKFZp761F052) | --- | --- |
| 237879_at | --- | --- | --- |
| 237102_at | Transcribed locus, strongly similar to XP_001145696.1 hypothetical protein [Pa | --- | --- |
| 242597_at | Transcribed locus | --- | --- |
| 233548_at | Clone IMAGE:35115, mRNA sequence | --- | --- |
| 241566_at | --- | --- | --- |
| 1561017_at | Full length insert cDNA clone YW28G08 | --- | --- |
| 244275_at | Transcribed locus | --- | --- |
| 244114_x_at | Clone HLS_IMAGE_1699118 mRNA sequence | --- | --- |
| 242766_at | Homo sapiens, clone IMAGE:4102980, mRNA | --- | --- |
| 1559067_a_at | Transcribed locus | --- | --- |
| 237096_at | Transcribed locus | --- | --- |

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|--------------|--|-----|-----------|
| 233944_at | CDNA FLJ12079 fis, clone HEMBB1002458 | --- | --- |
| 1563217_at | CDNA clone IMAGE:5299732 | --- | --- |
| 242014_at | Transcribed locus | --- | --- |
| 236733_at | Transcribed locus | --- | --- |
| 1560258_a_at | Homo sapiens, clone IMAGE:5590287, mRNA | --- | --- |
| 214019_at | --- | --- | --- |
| 1556834_at | CDNA clone IMAGE:5296106 | --- | --- |
| 241222_at | --- | --- | --- |
| 240131_at | Transcribed locus | --- | --- |
| 217052_x_at | --- | --- | --- |
| 230376_at | Transcribed locus | --- | --- |
| 220878_at | --- | --- | --- |
| 1568920_at | CDNA clone IMAGE:5261128 | --- | --- |
| 1570181_a_at | Homo sapiens, clone IMAGE:3857181, mRNA | --- | --- |
| 1560495_at | CDNA clone IMAGE:5729277 | --- | --- |
| 232738_at | --- | --- | --- |
| 213106_at | --- | --- | 10396 |
| 216612_x_at | --- | --- | --- |
| 1556935_at | Full length insert cDNA clone YI44E03 | --- | --- |
| 1559722_at | CDNA clone IMAGE:4830182 | --- | --- |
| 239849_at | Transcribed locus | --- | --- |
| 242639_at | Transcribed locus | --- | 79664 |
| 1569786_at | CDNA clone IMAGE:4831083 | --- | --- |
| 1558801_at | Homo sapiens, clone IMAGE:2900205, mRNA | --- | --- |
| 227776_at | Transcribed locus | --- | 55331 |
| 215854_at | CDNA FLJ11844 fis, clone HEMBA1006665 | --- | --- |
| 233240_at | CDNA FLJ10255 fis, clone HEMBB1000852 | --- | --- |
| 1561255_at | CDNA clone IMAGE:4827712 | --- | --- |
| 1563482_at | MRNA; cDNA DKFZp451M0319 (from clone DKFZp451M0319) | --- | --- |
| 234778_at | CDNA: FLJ21377 fis, clone COL03255 | --- | --- |
| 229167_at | Full-length cDNA clone CSODF014YA22 of Fetal brain of Homo sapiens (human) | --- | --- |
| 1562276_at | CDNA clone IMAGE:4839037 | --- | --- |
| 1569041_at | CDNA clone IMAGE:5262215 | --- | --- |
| 244723_at | CDNA FLJ34659 fis, clone KIDNE2018863 | --- | 100129488 |
| 237171_at | Transcribed locus | --- | --- |
| 226831_at | --- | --- | 91137 |
| 240141_at | --- | --- | --- |
| 227827_at | CDNA clone IMAGE:4791597 | --- | --- |
| 1562861_at | Homo sapiens, clone IMAGE:5195119, mRNA | --- | --- |
| 232808_at | CDNA FLJ12293 fis, clone MAMMA1001815 | --- | --- |
| 215801_at | MRNA; cDNA DKFZp434G1615 (from clone DKFZp434G1615) | --- | --- |
| 240914_at | Transcribed locus | --- | --- |
| 236005_at | --- | --- | --- |
| 236989_at | Transcribed locus | --- | --- |
| 242052_at | CDNA FLJ31445 fis, clone NT2NE2000864 | --- | --- |
| 233246_at | HSPC090 | --- | --- |
| 226478_at | CDNA FLJ34764 fis, clone NT2NE2002311 | --- | --- |
| 234136_at | CDNA FLJ13570 fis, clone PLACE1008392 | --- | --- |
| 1569960_at | CDNA clone MGC:42164 IMAGE:4799757 | --- | --- |
| 239614_x_at | Transcribed locus | --- | --- |
| 1562288_at | CDNA clone IMAGE:5262193 | --- | --- |
| 227921_at | --- | --- | --- |
| 242286_at | MRNA; cDNA DKFZp686F1745 (from clone DKFZp686F1745) | --- | 2903 |
| 230286_at | Transcribed locus | --- | --- |
| 229692_at | Transcribed locus | --- | --- |
| 243008_at | Transcribed locus | --- | --- |
| 241160_at | Transcribed locus | --- | --- |
| 241913_at | Transcribed locus | --- | --- |
| 236122_at | Transcribed locus | --- | --- |
| 240445_at | Transcribed locus | --- | --- |
| 216246_at | --- | --- | --- |
| 242277_at | Transcribed locus | --- | --- |
| 238137_at | Transcribed locus | --- | --- |

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|--------------|---|-----|--------|
| 234587_at | --- | --- | --- |
| 1558444_at | CDNA FLJ35140 fis, clone PLACE6009524 | --- | --- |
| 240831_at | Transcribed locus | --- | --- |
| 220851_at | --- | --- | --- |
| 233858_at | CDNA FLJ10149 fis, clone HEMBA1003380 | --- | --- |
| 222322_at | Transcribed locus | --- | --- |
| 235429_at | Transcribed locus | --- | --- |
| 242142_at | Transcribed locus | --- | --- |
| 240965_at | --- | --- | --- |
| 234067_at | CDNA FLJ10214 fis, clone HEMBA1006530 | --- | --- |
| 244454_at | Transcribed locus | --- | --- |
| 225917_at | CDNA FLJ43113 fis, clone CTONG2028208 | --- | --- |
| 216121_at | --- | --- | --- |
| 234675_x_at | CDNA: FLJ23566 fis, clone LNG10880 | --- | --- |
| 233005_at | CDNA FLJ12602 fis, clone NT2RM4001437 | --- | --- |
| 235613_at | Transcribed locus | --- | --- |
| 1562827_at | Homo sapiens, clone IMAGE:5167652, mRNA | --- | --- |
| 237650_at | --- | --- | --- |
| 1567576_at | Trapped 3' terminal exon, clone C2C4 | --- | --- |
| 237544_at | Transcribed locus | --- | --- |
| 241859_at | Transcribed locus | --- | 5334 |
| 1557555_at | CDNA FLJ12016 fis, clone HEMBB1001707 | --- | --- |
| 230895_at | --- | --- | 1404 |
| 1568647_at | CDNA clone IMAGE:4426835 | --- | --- |
| 1569664_at | Homo sapiens, clone IMAGE:5519764, mRNA | --- | --- |
| 244310_at | Full length insert cDNA clone YU07D01 | --- | --- |
| 1557875_at | CDNA clone IMAGE:5267277 | --- | --- |
| 1562353_x_at | Homo sapiens, clone IMAGE:5760997, mRNA | --- | --- |
| 239200_at | Transcribed locus | --- | --- |
| 1563075_s_at | Clone IMAGE:110987 mRNA sequence | --- | --- |
| 1562610_at | CDNA clone IMAGE:4830466 | --- | --- |
| 1570594_at | CDNA clone IMAGE:4801054 | --- | --- |
| 240596_at | Transcribed locus | --- | --- |
| 1563611_at | MRNA; cDNA DKFZp761C037 (from clone DKFZp761C037) | --- | --- |
| 1557885_at | CDNA clone IMAGE:5277293 | --- | --- |
| 233115_at | CDNA FLJ12950 fis, clone NT2RP2005454 | --- | --- |
| 233713_at | CDNA FLJ12119 fis, clone MAMMA1000092 | --- | --- |
| 236161_at | Transcribed locus | --- | --- |
| 1561719_at | CDNA clone IMAGE:5295194 | --- | --- |
| 234090_at | CDNA FLJ14180 fis, clone NT2RP2003799 | --- | --- |
| 239979_at | --- | --- | --- |
| 239340_at | Transcribed locus | --- | --- |
| 237573_at | Transcribed locus | --- | --- |
| 242134_at | Transcribed locus | --- | --- |
| 1561214_at | CDNA clone IMAGE:5271518 | --- | --- |
| 1562497_at | CDNA FLJ38224 fis, clone FCBBF2003395 | --- | --- |
| 239797_at | Transcribed locus | --- | --- |
| 1563182_at | CDNA clone IMAGE:4796641 | --- | 130399 |
| 238281_at | Transcribed locus | --- | --- |
| 1557239_at | Full length insert cDNA clone YW25E05 | --- | 56987 |
| 232390_at | MRNA; cDNA DKFZp761I1311 (from clone DKFZp761I1311) | --- | 4685 |
| 1562091_at | CDNA clone IMAGE:5302310 | --- | --- |
| 1569680_at | CDNA clone IMAGE:4288701 | --- | --- |
| 1560986_a_at | Full length insert cDNA clone YW21C01 | --- | --- |
| 232569_at | CDNA FLJ14193 fis, clone NT2RP3001115 | --- | --- |
| 1561703_at | CDNA clone IMAGE:5269594 | --- | --- |
| 234428_at | MRNA; cDNA DKFZp564I1316 (from clone DKFZp564I1316) | --- | --- |
| 227395_at | CDNA FLJ38498 fis, clone FELNG2000241 | --- | --- |
| 230314_at | Transcribed locus | --- | --- |
| 216764_at | CDNA: FLJ21538 fis, clone COL06151 | --- | --- |
| 231227_at | Transcribed locus | --- | --- |
| 1567078_x_at | --- | --- | --- |
| 1562596_at | CDNA clone IMAGE:5767930 | --- | --- |

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|--------------|---|-----|-------|
| 1560429_at | Transcribed locus | --- | --- |
| 233779_x_at | CDNA FLJ11984 fis, clone HEMBB1001348 | --- | --- |
| 1561672_at | MRNA; cDNA DKFZp666D2410 (from clone DKFZp666D2410) | --- | --- |
| 235027_at | CDNA FLJ41146 fis, clone BRACE2036900 | --- | --- |
| 241804_at | Transcribed locus | --- | --- |
| 1560048_at | CDNA FLJ30026 fis, clone 3NB692001123 | --- | --- |
| 234182_at | --- | --- | --- |
| 1557813_at | Full length insert cDNA clone YB34C04 | --- | --- |
| 241956_at | --- | --- | --- |
| 1557861_at | CDNA clone IMAGE:5302109 | --- | --- |
| 1568785_a_at | CDNA clone IMAGE:5272174 | --- | --- |
| 1566863_at | CDNA clone IMAGE:5310996 | --- | --- |
| 233302_at | CDNA FLJ10224 fis, clone HEMBB1000025 | --- | --- |
| 235018_at | MRNA; cDNA DKFZp564E143 (from clone DKFZp564E143) | --- | --- |
| 235759_at | Transcribed locus | --- | --- |
| 238073_at | --- | --- | 1996 |
| 229261_at | Transcribed locus | --- | --- |
| 240773_at | Transcribed locus | --- | --- |
| 227221_at | CDNA clone IMAGE:5261213 | --- | --- |
| 231057_at | CDNA FLJ11991 fis, clone HEMBB1001424 | --- | --- |
| 243149_at | Transcribed locus | --- | --- |
| 244779_at | CDNA FLJ34038 fis, clone FCBBF2005645 | --- | --- |
| 215056_at | Clone 23695 mRNA sequence | --- | --- |
| 244125_at | Transcribed locus | --- | --- |
| 1555364_at | MRNA; cDNA DKFZp564K2216 (from clone DKFZp564K2216) | --- | --- |
| 1561690_at | CDNA clone IMAGE:5303966 | --- | --- |
| 238370_x_at | MRNA; cDNA DKFZp686L18111 (from clone DKFZp686L18111) | --- | 6146 |
| 243177_at | --- | --- | --- |
| 236395_at | Transcribed locus | --- | --- |
| 232831_at | CDNA FLJ11910 fis, clone HEMBB1000113 | --- | --- |
| 1564610_at | CDNA FLJ25858 fis, clone TST09644 | --- | --- |
| 241365_at | CDNA FLJ42259 fis, clone TKIDN2011289 | --- | --- |
| 243039_at | --- | --- | --- |
| 220691_at | Clone HQ0097 PRO0097 | --- | --- |
| 244792_at | --- | --- | --- |
| 241536_at | Full length insert cDNA YO61A08 | --- | --- |
| 241818_at | Transcribed locus | --- | --- |
| 242652_at | Transcribed locus | --- | --- |
| 1556794_at | CDNA FLJ33615 fis, clone BRAMY2018396 | --- | --- |
| 237667_at | Transcribed locus | --- | --- |
| 215385_at | CDNA FLJ12411 fis, clone MAMMA1002964 | --- | --- |
| 232064_at | CDNA FLJ35001 fis, clone OCBBF2011887 | --- | --- |
| 236312_at | Transcribed locus | --- | --- |
| 1561989_at | --- | --- | --- |
| 240895_at | Transcribed locus | --- | --- |
| 233716_at | CDNA FLJ12103 fis, clone HEMBB1002692 | --- | --- |
| 240324_at | --- | --- | --- |
| 237553_at | Transcribed locus | --- | --- |
| 238348_x_at | Transcribed locus | --- | --- |
| 234330_at | CDNA FLJ14081 fis, clone HEMBB1002280 | --- | --- |
| 235183_at | CDNA clone IMAGE:5312689 | --- | --- |
| 243635_at | Transcribed locus | --- | --- |
| 239611_at | Transcribed locus | --- | --- |
| 237537_at | Transcribed locus | --- | --- |
| 210703_at | --- | --- | --- |
| 229281_at | Transcribed locus | --- | 64067 |
| 228732_at | CDNA clone IMAGE:5273964 | --- | --- |
| 241473_at | Transcribed locus | --- | --- |
| 236575_at | CDNA clone IMAGE:4823793 | --- | --- |
| 216467_s_at | CDNA FLJ41826 fis, clone NT2R12025564 | --- | --- |
| 242507_at | CDNA FLJ35645 fis, clone SPLEN2012611 | --- | --- |
| 234563_at | CDNA FLJ20788 fis, clone COL02074 | --- | --- |
| 239841_at | Transcribed locus | --- | --- |

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|--------------|---|-----|-------|
| 1560728_at | MRNA; cDNA DKFZp666G069 (from clone DKFZp666G069) | --- | --- |
| 241608_at | Transcribed locus, weakly similar to XP_001083900.1 similar to zinc finger CCHC | --- | --- |
| 233692_at | CDNA: FLJ21275 fis, clone COL01827 | --- | --- |
| 227497_at | CDNA FLJ11723 fis, clone HEMBA1005314 | --- | --- |
| 243908_at | --- | --- | --- |
| 242756_at | --- | --- | --- |
| 1565915_at | Full length insert cDNA clone YR04D03 | --- | --- |
| 243886_at | --- | --- | --- |
| 233280_at | CDNA FLJ13895 fis, clone THYRO1001673 | --- | --- |
| 1562399_at | CDNA clone IMAGE:5298700 | --- | --- |
| 1562794_at | CDNA clone IMAGE:5259051 | --- | --- |
| 238431_at | Transcribed locus | --- | --- |
| 1568883_at | Homo sapiens, Similar to KIAA1503 protein, clone IMAGE:5505326, mRNA | --- | --- |
| 215768_at | MRNA; cDNA DKFZp564P016 (from clone DKFZp564P016) | --- | --- |
| 239988_at | Transcribed locus | --- | --- |
| 236103_at | Transcribed locus | --- | --- |
| 242500_at | Transcribed locus | --- | --- |
| 243988_at | Transcribed locus | --- | --- |
| 226666_at | MRNA; cDNA DKFZp564M243 (from clone DKFZp564M243) | --- | 23002 |
| 241770_x_at | Transcribed locus | --- | --- |
| 235363_at | Transcribed locus | --- | --- |
| 233976_at | Transcribed locus | --- | --- |
| 227545_at | Transcribed locus | --- | --- |
| 1569661_at | CDNA clone IMAGE:5260324 | --- | --- |
| 1561364_at | CDNA clone IMAGE:4797817 | --- | --- |
| 240279_at | --- | --- | --- |
| 227585_at | --- | --- | --- |
| 235264_at | Transcribed locus | --- | 29915 |
| 1569344_a_at | Homo sapiens, clone IMAGE:4044872, mRNA | --- | --- |
| 226362_at | Clone HLS_IMAGE_767345 mRNA sequence | --- | --- |
| 232978_at | Clone IMAGE:27725, mRNA sequence | --- | --- |
| 226773_at | MRNA (clone ICRFp50711077) | --- | --- |
| 234074_at | CDNA FLJ10946 fis, clone PLACE1000005 | --- | --- |
| 243920_x_at | MRNA; cDNA DKFZp686I19109 (from clone DKFZp686I19109) | --- | --- |
| 1562850_at | CDNA clone IMAGE:5742601 | --- | --- |
| 217363_x_at | --- | --- | --- |
| 237184_at | --- | --- | --- |
| 1563316_at | Homo sapiens, clone IMAGE:5748207, mRNA | --- | --- |
| 242046_at | Transcribed locus | --- | --- |
| 1557843_at | CDNA clone IMAGE:5298708 | --- | --- |
| 238907_at | Transcribed locus | --- | --- |
| 1559336_at | Homo sapiens, clone IMAGE:4714787 | --- | --- |
| 1557240_a_at | Full length insert cDNA clone YW25E05 | --- | --- |
| 1570176_at | Homo sapiens, clone IMAGE:4183253, mRNA | --- | --- |
| 241484_x_at | --- | --- | --- |
| 244241_x_at | Transcribed locus | --- | --- |
| 216871_at | --- | --- | --- |
| 240690_at | --- | --- | --- |
| 230312_at | Transcribed locus | --- | --- |
| 232793_at | Primary neuroblastoma cDNA, clone:Nbla04171, full insert sequence | --- | --- |
| 239718_at | CDNA FLJ42310 fis, clone TRACH2007733 | --- | --- |
| 241970_at | Transcribed locus | --- | --- |
| 1559806_at | Homo sapiens, clone IMAGE:5166543, mRNA | --- | --- |
| 242593_at | Transcribed locus | --- | --- |
| 240450_at | Transcribed locus | --- | --- |
| 242819_at | --- | --- | --- |
| 237953_at | --- | --- | --- |
| 244303_at | Transcribed locus | --- | --- |
| 242674_at | CDNA FLJ34183 fis, clone FCBBF3016987 | --- | --- |
| 242616_at | Transcribed locus | --- | --- |
| 1560776_at | CDNA FLJ12188 fis, clone MAMMA1000839 | --- | --- |
| 1566284_at | PA4=candidate oncogene {3' region} [human, HEN-16, HEN-16T transformed en | --- | --- |
| 241255_at | --- | --- | --- |

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| 238876_at | CDNA clone IMAGE:6165570 | --- | --- |
| 1555925_at | CDNA FLJ30680 fis, clone FCBBF2000123 | --- | --- |
| 1564767_at | CDNA: FLJ20928 fis, clone ADSE01074 | --- | --- |
| 1560661_x_at | --- | --- | --- |
| 234087_at | --- | --- | --- |
| 240015_at | Transcribed locus | --- | --- |
| 1566695_at | CDNA clone IMAGE:5289071 | --- | --- |
| 240538_at | Transcribed locus | --- | --- |
| 234219_at | CDNA: FLJ21345 fis, clone COL02694 | --- | --- |
| 216527_at | CDNA FLJ46556 fis, clone THYMU3039807 | --- | --- |
| 216170_at | CDNA: FLJ21618 fis, clone COL07487 | --- | --- |
| 234389_x_at | --- | --- | --- |
| 238967_at | Transcribed locus | --- | --- |
| 242680_at | Transcribed locus | --- | --- |
| 237514_at | CDNA clone IMAGE:5267328 | --- | --- |
| 1562474_at | --- | --- | --- |
| 239649_at | --- | --- | --- |
| 235764_at | Transcribed locus | --- | --- |
| 216828_at | --- | --- | --- |
| 1561453_at | CDNA clone IMAGE:5277839 | --- | --- |
| 1569539_at | CDNA clone IMAGE:5285294 | --- | --- |
| 240341_at | Transcribed locus | --- | --- |
| 242769_at | Transcribed locus | --- | --- |
| 242216_at | Transcribed locus | --- | --- |
| 1562940_at | CDNA clone IMAGE:5301683 | --- | --- |
| 242906_at | MRNA; cDNA DKFZp313B1017 (from clone DKFZp313B1017) | --- | --- |
| 241262_at | Transcribed locus | --- | --- |
| 235274_at | Transcribed locus | --- | --- |
| 242464_at | Transcribed locus | --- | --- |
| 236772_s_at | Transcribed locus | --- | --- |
| 1557584_at | CDNA clone IMAGE:5262422 | --- | --- |
| 236251_at | Transcribed locus | --- | --- |
| 215303_at | Clones 24632 and 24634 mRNA sequence | --- | 9201 |
| 240861_at | --- | --- | --- |
| 222249_at | KIAA1651 protein | --- | --- |
| 228218_at | CDNA clone IMAGE:5284125 | --- | --- |
| 241030_at | --- | --- | --- |
| 227630_at | CDNA FLJ34250 fis, clone FCBBF4000529 | --- | --- |
| 229317_at | --- | --- | 3841 |
| 242801_at | Transcribed locus | --- | --- |
| 227533_at | Transcribed locus | --- | --- |
| 242619_x_at | --- | --- | --- |
| 1560118_at | CDNA FLJ14172 fis, clone NT2RP2002677 | --- | --- |
| 1564378_a_at | CDNA: FLJ21448 fis, clone COL04473 | --- | --- |
| 212608_s_at | AF034176 Human mRNA (Tripodis and Ragoussis) Homo sapiens cDNA clone ntc | --- | --- |
| 1555014_x_at | OK/SW-cl.92 | --- | --- |
| 227234_at | CDNA FLJ32177 fis, clone PLACE6001294 | --- | 100132815 |
| 233133_at | Clone 24993 mRNA sequence | --- | --- |
| 1563032_at | CDNA clone IMAGE:5311737 | --- | --- |
| 243673_at | Transcribed locus | --- | --- |
| 1561196_at | CDNA clone IMAGE:4827713 | --- | --- |
| 241719_at | Transcribed locus | --- | --- |
| 215545_at | --- | --- | --- |
| 232541_at | CDNA FLJ20099 fis, clone COL04544 | --- | --- |
| 227476_at | --- | --- | --- |
| 244340_x_at | --- | --- | --- |
| 1562642_at | CDNA clone IMAGE:5288897 | --- | --- |
| 232679_at | CDNA clone IMAGE:5299000 | --- | --- |
| 240783_at | Transcribed locus | --- | --- |
| 241184_x_at | Transcribed locus | --- | --- |
| 239134_at | Transcribed locus | --- | --- |
| 1560525_at | Homo sapiens, clone IMAGE:4723630, mRNA | --- | --- |
| 1563138_at | --- | --- | --- |

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| 243343_at | Transcribed locus | --- | --- |
| 1560517_s_at | Homo sapiens, clone IMAGE:5222445, mRNA | --- | --- |
| 1557025_a_at | CDNA clone IMAGE:4799771 | --- | --- |
| 238393_at | Transcribed locus | --- | --- |
| 1570622_at | Clone FLB4630 | --- | --- |
| 242239_at | CDNA clone IMAGE:5314281 | --- | --- |
| 241928_at | Transcribed locus | --- | --- |
| 241226_at | Transcribed locus | --- | --- |
| 237165_at | --- | --- | --- |
| 1563118_at | CDNA: FLJ20923 fis, clone ADSE00893 | --- | --- |
| 222302_at | --- | --- | --- |
| 1570205_at | CDNA clone IMAGE:4794628 | --- | --- |
| 231616_at | Transcribed locus | --- | --- |
| 231095_at | CDNA FLJ42857 fis, clone BRHIP2009340 | --- | --- |
| 233263_at | CDNA FLJ12236 fis, clone MAMMA1001244 | --- | --- |
| 229823_at | Transcribed locus | --- | --- |
| 234009_at | CDNA FLJ13777 fis, clone PLACE4000392 | --- | --- |
| 1561525_at | CDNA clone IMAGE:5258895 | --- | --- |
| 1561411_at | Homo sapiens, clone IMAGE:5583320, mRNA | --- | --- |
| 1554225_a_at | CDNA clone IMAGE:4794631 | --- | --- |
| 244368_x_at | MRNA; cDNA DKFZp451K063 (from clone DKFZp451K063) | --- | --- |
| 240105_at | Transcribed locus | --- | --- |
| 235152_at | Homo sapiens, clone IMAGE:5218412, mRNA | --- | --- |
| 237083_at | Transcribed locus | --- | --- |
| 238673_at | Transcribed locus | --- | 401474 |
| 1562925_at | CDNA clone IMAGE:3625232 | --- | --- |
| 234132_at | CDNA FLJ11769 fis, clone HEMBA1005755 | --- | --- |
| 1560659_at | --- | --- | --- |
| 1568660_a_at | CDNA clone IMAGE:5272469 | --- | --- |
| 233853_at | MRNA; cDNA DKFZp564C0170 (from clone DKFZp564C0170) | --- | --- |
| 242535_at | Transcribed locus | --- | --- |
| 1553979_at | Homo sapiens, clone IMAGE:3906992, mRNA | --- | --- |
| 1569311_at | Homo sapiens, clone IMAGE:5557598, mRNA | --- | --- |
| 1562420_at | CDNA clone IMAGE:5276673 | --- | --- |
| 242343_x_at | --- | --- | --- |
| 243012_at | Transcribed locus | --- | --- |
| 233194_at | MRNA; cDNA DKFZp434B1023 (from clone DKFZp434B1023) | --- | --- |
| 231055_at | Transcribed locus | --- | --- |
| 1560888_x_at | Full length insert cDNA clone ZC40A10 | --- | --- |
| 212605_s_at | AF034176 Human mRNA (Tripodis and Ragoussis) Homo sapiens cDNA clone ntc | --- | --- |
| 1563706_at | MRNA; cDNA DKFZp313B1235 (from clone DKFZp313B1235) | --- | --- |
| 243150_at | Transcribed locus | --- | --- |
| 1562514_at | CDNA clone IMAGE:5295326 | --- | --- |
| 1561489_at | CDNA clone IMAGE:5541269 | --- | --- |
| 240262_at | --- | --- | --- |
| 238161_at | Transcribed locus | --- | --- |
| 231513_at | Transcribed locus | --- | --- |
| 1566549_at | MRNA; cDNA DKFZp564C1382 (from clone DKFZp564C1382) | --- | --- |
| 228390_at | CDNA clone IMAGE:5259272 | --- | --- |
| 235017_s_at | MRNA; cDNA DKFZp564E143 (from clone DKFZp564E143) | --- | --- |
| 234081_at | CDNA FLJ11986 fis, clone HEMBB1001364 | --- | --- |
| 242380_at | Transcribed locus | --- | --- |
| 1570628_at | Homo sapiens, clone IMAGE:4401081, mRNA | --- | --- |
| 241179_at | Transcribed locus | --- | --- |
| 244236_at | --- | --- | --- |
| 1562086_at | CDNA clone IMAGE:5263207 | --- | --- |
| 243071_at | Transcribed locus | --- | --- |
| 225767_at | --- | --- | 284801 |
| 1557161_at | Homo sapiens, clone IMAGE:5557975, mRNA | --- | 100132735 |
| 241584_at | Transcribed locus | --- | --- |
| 1557149_at | Full length insert cDNA clone ZB55F04 | --- | --- |
| 242323_at | Full-length cDNA clone CSODF027YF17 of Fetal brain of Homo sapiens (human) | --- | 81579 |
| 223358_s_at | CDNA FLJ33024 fis, clone THYMU1000532, moderately similar to HIGH-AFFINITY | --- | --- |

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| 235230_at | CDNA FLJ34317 fis, clone FEBRA2008475 | --- | --- |
| 241863_x_at | Transcribed locus | --- | --- |
| 236766_at | Transcribed locus | --- | --- |
| 240008_at | Transcribed locus | --- | --- |
| 244346_at | Transcribed locus | --- | --- |
| 242718_at | Transcribed locus | --- | --- |
| 244517_x_at | MRNA; cDNA DKFZp666J249 (from clone DKFZp666J249) | --- | --- |
| 232156_at | --- | --- | --- |
| 1562275_at | MRNA; cDNA DKFZp667P1024 (from clone DKFZp667P1024) | --- | --- |
| 242699_at | Transcribed locus | --- | --- |
| 234134_at | Clone FLB4701 | --- | --- |
| 217300_at | --- | --- | --- |
| 235299_at | Transcribed locus | --- | --- |
| 241094_at | --- | --- | --- |
| 213832_at | MRNA; cDNA DKFZp547P042 (from clone DKFZp547P042) | --- | 3752 |
| 1561883_at | Full length insert cDNA YV20A06 | --- | --- |
| 244003_at | --- | --- | --- |
| 1563115_at | Homo sapiens, clone IMAGE:5170855, mRNA | --- | --- |
| 232935_at | Primary neuroblastoma cDNA, clone:Nbla03614, full insert sequence | --- | --- |
| 201205_at | --- | --- | --- |
| 243607_at | Transcribed locus | --- | --- |
| 1558401_at | CDNA FLJ37332 fis, clone BRAMY2019710 | --- | --- |
| 220884_at | --- | --- | --- |
| 238009_at | Transcribed locus | --- | --- |
| 1566452_at | --- | --- | --- |
| 236619_at | Transcribed locus | --- | --- |
| 239963_at | Transcribed locus | --- | --- |
| 231136_at | --- | --- | --- |
| 242932_at | Transcribed locus | --- | --- |
| 240469_at | Transcribed locus | --- | --- |
| 1567219_at | --- | --- | --- |
| 239884_at | --- | --- | 8618 |
| 215287_at | ELISC-1 | --- | --- |
| 1566504_at | CDNA clone IMAGE:5265199 | --- | --- |
| 241407_at | CDNA FLJ11682 fis, clone HEMBA1004880 | --- | --- |
| 236531_at | Clone TEC_AC000123.2-001_FWD mRNA sequence | --- | --- |
| 244258_at | Transcribed locus | --- | --- |
| 237353_at | Transcribed locus | --- | --- |
| 240880_at | Transcribed locus | --- | --- |
| 239347_at | Transcribed locus | --- | --- |
| 1563298_at | Homo sapiens, clone IMAGE:3934814, mRNA | --- | --- |
| 242575_at | --- | --- | --- |
| 1562229_at | Full length insert cDNA clone YI41B09 | --- | --- |
| 1562957_at | Homo sapiens, clone IMAGE:3948753, mRNA | --- | --- |
| 239240_at | Transcribed locus | --- | --- |
| 242805_at | --- | --- | --- |
| 229885_at | Transcribed locus | --- | --- |
| 234906_at | Clone 24900 mRNA sequence | --- | --- |
| 240246_at | CDNA FLJ44826 fis, clone BRACE3046762 | --- | --- |
| 233518_at | CDNA FLJ11493 fis, clone HEMBA1001940 | --- | --- |
| 236105_at | Transcribed locus | --- | --- |
| 236401_at | Full-length cDNA clone CS0DI016YI23 of Placenta Cot 25-normalized of Homo sa | --- | --- |
| 241613_at | Transcribed locus, weakly similar to XP_001083900.1 similar to zinc finger CCHC | --- | --- |
| 215164_at | MRNA; cDNA DKFZp564I083 (from clone DKFZp564I083) | --- | --- |
| 1555519_at | --- | --- | --- |
| 230537_at | --- | --- | --- |
| 226883_at | CDNA clone IMAGE:4793058 | --- | --- |
| 243993_at | --- | --- | --- |
| 243322_at | Transcribed locus | --- | --- |
| 242379_at | Transcribed locus | --- | --- |
| 1557699_x_at | Homo sapiens, clone IMAGE:4043992, mRNA | --- | --- |
| 236752_at | Transcribed locus | --- | --- |
| 1563469_at | MRNA; cDNA DKFZp313M0417 (from clone DKFZp313M0417) | --- | --- |

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| 1558373_s_at | CDNA FLJ34038 fis, clone FCBBF2005645 | --- | --- |
| 242759_at | Transcribed locus | --- | --- |
| 241520_x_at | Transcribed locus | --- | --- |
| 244679_at | Transcribed locus | --- | --- |
| 1559867_at | CDNA FLJ32420 fis, clone SKMUS2000898 | --- | --- |
| 1556520_at | CDNA clone IMAGE:5296510 | --- | --- |
| 1564129_a_at | CDNA FLJ33482 fis, clone BRAMY2002862, weakly similar to NICOTINATE-NUCLI | --- | --- |
| 238565_at | CDNA FLJ40891 fis, clone UTERU2001110 | --- | --- |
| 1562055_at | CDNA FLJ33443 fis, clone BRALZ1000103 | --- | --- |
| 244511_at | Transcribed locus | --- | --- |
| 1560817_at | CDNA FLJ20814 fis, clone ADSE01064 | --- | --- |
| 242912_at | CDNA FLJ43851 fis, clone TESTI4006728 | --- | 641455 |
| 1561915_at | CDNA clone IMAGE:4798161 | --- | --- |
| 239907_at | Transcribed locus | --- | --- |
| 237860_at | Full-length cDNA clone CS0DC006YD17 of Neuroblastoma Cot 25-normalized of | --- | --- |
| 1569794_at | CDNA clone IMAGE:4824066 | --- | --- |
| 234082_at | CDNA FLJ11831 fis, clone HEMBA1006562 | --- | --- |
| 241948_at | Transcribed locus | --- | --- |
| 240090_at | Transcribed locus | --- | --- |
| 240364_at | Transcribed locus | --- | --- |
| 235601_at | Transcribed locus | --- | --- |
| 1556352_at | CDNA FLJ30440 fis, clone BRACE2009185 | --- | --- |
| 244636_at | Transcribed locus | --- | --- |
| 242227_at | Transcribed locus | --- | --- |
| 216090_x_at | --- | --- | --- |
| 237365_at | CDNA clone IMAGE:5269899 | --- | --- |
| 235628_x_at | --- | --- | --- |
| 237494_at | Transcribed locus | --- | --- |
| 242989_at | Transcribed locus | --- | --- |
| 208360_s_at | --- | --- | --- |
| 243783_at | CDNA FLJ36183 fis, clone TESTI2026854 | --- | --- |
| 239122_at | Transcribed locus | --- | --- |
| 232331_at | CDNA: FLJ23454 fis, clone HSI06959 | --- | --- |
| 211600_at | --- | --- | 5800 |
| 1562281_at | MRNA; cDNA DKFZp313A0310 (from clone DKFZp313A0310) | --- | --- |
| 238735_at | --- | --- | --- |
| 1557698_at | Homo sapiens, clone IMAGE:4043992, mRNA | --- | --- |
| 230350_at | Transcribed locus | --- | --- |
| 220608_s_at | --- | --- | 54989 |
| 234217_at | CDNA: FLJ21283 fis, clone COL01910 | --- | --- |
| 226964_at | CDNA clone IMAGE:5272626 | --- | --- |
| 239140_at | Transcribed locus | --- | --- |
| 235000_at | CDNA FLJ30652 fis, clone DFNES2000011 | --- | --- |
| 1557219_at | CDNA clone IMAGE:5296720 | --- | --- |
| 1563531_at | CDNA clone IMAGE:5270399 | --- | --- |
| 242253_at | CDNA FLJ37185 fis, clone BRALZ2001743, moderately similar to H.sapiens mRNA | --- | --- |
| 1562310_at | CDNA clone IMAGE:4838759 | --- | --- |
| 215128_at | CDNA FLJ11682 fis, clone HEMBA1004880 | --- | --- |
| 1560826_at | CDNA clone IMAGE:4151535 | --- | --- |
| 1570213_at | CDNA clone IMAGE:4800022 | --- | --- |
| 236921_at | Transcribed locus | --- | --- |
| 243484_x_at | Transcribed locus | --- | --- |
| 1565913_at | Full length insert cDNA clone YR04D03 | --- | --- |
| 1559425_at | MRNA; cDNA DKFZp667O095 (from clone DKFZp667O095) | --- | --- |
| 232439_at | CDNA FLJ12030 fis, clone HEMBB1001868 | --- | --- |
| 240410_at | Transcribed locus | --- | --- |
| 234255_at | MRNA; cDNA DKFZp434E0572 (from clone DKFZp434E0572) | --- | --- |
| 1560827_at | CDNA clone IMAGE:4820845 | --- | --- |
| 244642_at | Transcribed locus | --- | --- |
| 1563601_at | MRNA; cDNA DKFZp761H1018 (from clone DKFZp761H1018) | --- | --- |
| 244732_at | --- | --- | --- |
| 234757_at | CDNA FLJ38091 fis, clone CTONG2026770 | --- | 100129884 |
| 215422_at | Cri-du-chat region mRNA, clone NIBB11 | --- | --- |

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| 232556_at | CDNA FLJ11890 fis, clone HEMBA1007256 | --- | --- |
| 237893_at | Transcribed locus | --- | --- |
| 229380_at | Transcribed locus | --- | --- |
| 243605_at | Transcribed locus | --- | --- |
| 1553538_s_at | --- | --- | 4512 |
| 241845_at | --- | --- | --- |
| 1559814_at | CDNA clone IMAGE:6050863 | --- | --- |
| 240835_at | --- | --- | --- |
| 43511_s_at | MRNA; cDNA DKFZp762M127 (from clone DKFZp762M127) | --- | --- |
| 242862_x_at | --- | --- | --- |
| 242723_at | Transcribed locus | --- | --- |
| 1562169_at | MRNA full length insert cDNA clone EUROIMAGE 131775 | --- | --- |
| 242143_at | Transcribed locus | --- | --- |
| 1564878_at | Homo sapiens, clone IMAGE:4072333, mRNA | --- | --- |
| 233546_at | CDNA FLJ13003 fis, clone NT2RP3000418 | --- | --- |
| 1555977_at | CDNA FLJ33153 fis, clone UTERU2000332 | --- | --- |
| 236522_at | Transcribed locus | --- | --- |
| 241632_x_at | Transcribed locus | --- | --- |
| 1561061_at | CDNA clone IMAGE:5297486 | --- | --- |
| 233066_at | --- | --- | --- |
| 1568742_at | CDNA clone IMAGE:2984900 | --- | --- |
| 238185_at | Transcribed locus | --- | --- |
| 239735_at | MRNA (fetal brain cDNA g6_1g) | --- | --- |
| 220375_s_at | --- | --- | --- |
| 242893_at | Transcribed locus | --- | --- |
| 242409_at | Full-length cDNA clone CS0CAP003YO10 of Thymus of Homo sapiens (human) | --- | --- |
| 235304_at | Transcribed locus | --- | --- |
| 1557617_at | CDNA clone IMAGE:4797324 | --- | --- |
| 214078_at | Primary neuroblastoma cDNA, clone:Nbla04246, full insert sequence | --- | --- |
| 232047_at | --- | --- | --- |
| 232459_at | CDNA FLJ12174 fis, clone MAMMA1000707 | --- | --- |
| 228481_at | CDNA FLJ13419 fis, clone PLACE1002115 | --- | --- |
| 241769_at | Transcribed locus | --- | --- |
| 214848_at | Clone 23548 mRNA sequence | --- | --- |
| 1561135_at | Full length insert cDNA clone YT88G03 | --- | --- |
| 241253_at | --- | --- | --- |
| 232344_at | CDNA FLJ11750 fis, clone HEMBA1005568 | --- | --- |
| 241718_x_at | Transcribed locus | --- | --- |
| 1555205_at | --- | --- | --- |
| 228070_at | CDNA FLJ34250 fis, clone FCBBF4000529 | --- | --- |
| 243384_at | Transcribed locus | --- | --- |
| 236354_at | Transcribed locus | --- | --- |
| 240795_at | CDNA clone IMAGE:5288566 | --- | --- |
| 242249_at | --- | --- | --- |
| 1559807_at | CDNA clone IMAGE:4799886 | --- | --- |
| 240904_at | --- | --- | --- |
| 241557_x_at | Transcribed locus | --- | --- |
| 229376_at | --- | --- | 5629 |
| 1557637_at | CDNA clone IMAGE:5267718 | --- | --- |
| 226316_at | CDNA clone IMAGE:5295896 | --- | --- |
| 236856_x_at | CDNA FLJ34374 fis, clone FEBRA2017502 | --- | --- |
| 239227_at | --- | --- | --- |
| 235962_at | Transcribed locus | --- | --- |
| 236038_at | Transcribed locus | --- | --- |
| 234723_x_at | CDNA: FLJ21228 fis, clone COL00739 | --- | --- |
| 225714_s_at | --- | --- | --- |
| 232957_x_at | CDNA FLJ13017 fis, clone NT2RP3000628 | --- | --- |
| 239679_at | --- | --- | --- |
| 1561638_at | Full length insert cDNA clone YI46C04 | --- | --- |
| 240000_at | Transcribed locus | --- | --- |
| 232877_at | CDNA FLJ12342 fis, clone MAMMA1002282 | --- | --- |
| 236293_at | Transcribed locus | --- | --- |
| 243300_at | Transcribed locus | --- | --- |

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| 235861_at | --- | --- | --- |
| 236059_at | CDNA clone IMAGE:4822341 | --- | 100130428 |
| 231598_x_at | --- | --- | --- |
| 240620_at | Transcribed locus | --- | --- |
| 237347_at | CDNA FLJ37166 fis, clone BRACE2027408 | --- | --- |
| 232126_at | CDNA FLJ13014 fis, clone NT2RP3000592 | --- | --- |
| 241790_at | Transcribed locus | --- | --- |
| 209227_at | --- | --- | 7991 |
| 217054_at | CDNA FLJ39484 fis, clone PROST2014925 | --- | --- |
| 1552829_at | --- | --- | --- |
| 241635_at | Transcribed locus | --- | --- |
| 1556393_at | Full length insert cDNA clone YY79F02 | --- | --- |
| 224546_at | --- | --- | --- |
| 233912_x_at | CDNA FLJ11463 fis, clone HEMBA1001608 | --- | --- |
| 239888_at | --- | --- | --- |
| 222370_x_at | --- | --- | --- |
| 242886_at | Transcribed locus | --- | --- |
| 234176_at | CDNA: FLJ21224 fis, clone COL00694 | --- | --- |
| 1569753_at | CDNA clone IMAGE:4828604 | --- | --- |
| 1561573_at | Homo sapiens, clone IMAGE:5528716, mRNA | --- | --- |
| 1560887_a_at | Full length insert cDNA clone ZC40A10 | --- | --- |
| 239032_at | Transcribed locus | --- | --- |
| 222079_at | --- | --- | 2078 |
| 234534_at | CDNA FLJ20100 fis, clone COL04648 | --- | --- |
| 236285_at | Transcribed locus | --- | --- |
| 1567100_at | Full length insert cDNA clone YB38D04 | --- | --- |
| 236935_at | CDNA clone IMAGE:4813920 | --- | --- |
| 234634_at | CDNA: FLJ21448 fis, clone COL04473 | --- | --- |
| 244568_at | Transcribed locus | --- | --- |
| 236194_at | Transcribed locus, moderately similar to NP_001018860.1 protein LOC401398 [| --- | --- |
| 236879_at | Transcribed locus | --- | --- |
| 235757_at | Transcribed locus | --- | --- |
| 240186_at | Transcribed locus | --- | --- |
| 236422_at | Transcribed locus | --- | --- |
| 224254_x_at | --- | --- | --- |
| 1563427_at | Homo sapiens, clone IMAGE:5538612, mRNA | --- | --- |
| 233036_at | CDNA FLJ10237 fis, clone HEMBB1000438 | --- | --- |
| 238512_at | Transcribed locus | --- | --- |
| 242311_x_at | Transcribed locus | --- | --- |
| 242317_at | Transcribed locus | --- | 25994 |
| 1554766_s_at | --- | --- | --- |
| 244469_at | Transcribed locus | --- | --- |
| 1570264_at | Homo sapiens, clone IMAGE:4337699, mRNA | --- | --- |
| 243489_at | Transcribed locus | --- | --- |
| 239519_at | Transcribed locus | --- | --- |
| 206936_x_at | --- | --- | --- |
| 243846_x_at | --- | --- | --- |
| 239082_at | CDNA clone IMAGE:5311370 | --- | --- |
| 1560082_at | MRNA; cDNA DKFZp761L0119 (from clone DKFZp761L0119) | --- | --- |
| 233765_at | CDNA FLJ13711 fis, clone PLACE2000379 | --- | --- |
| 233224_at | MRNA; cDNA DKFZp586D0924 (from clone DKFZp586D0924) | --- | --- |
| 234509_at | MRNA; cDNA DKFZp564B206 (from clone DKFZp564B206) | --- | --- |
| 1569782_at | CDNA clone IMAGE:5259303 | --- | --- |
| 242967_at | --- | --- | --- |
| 49111_at | MRNA; cDNA DKFZp762M127 (from clone DKFZp762M127) | --- | --- |
| 242496_at | CDNA FLJ23728 fis, clone HEP14243 | --- | --- |
| 1564369_at | CDNA: FLJ21734 fis, clone COLF1954 | --- | --- |
| 244298_at | --- | --- | --- |
| 242399_at | --- | --- | --- |
| 239701_at | Transcribed locus | --- | --- |
| 240138_at | Transcribed locus | --- | --- |
| 220352_x_at | --- | --- | 645644 |
| 239242_at | CDNA FLJ34775 fis, clone NT2NE2003315 | --- | --- |

| | | | |
|--------------|--|-----|-------|
| 244668_at | Transcribed locus, strongly similar to XP_530687.1 hypothetical protein XP_530 | --- | --- |
| 242708_at | Transcribed locus | --- | --- |
| 240095_at | Transcribed locus | --- | --- |
| 233431_x_at | Breast cancer estrogen-induced apoptosis 3 mRNA sequence | --- | --- |
| 1557302_at | CDNA FLJ33255 fis, clone ASTRO2005553 | --- | --- |
| 239170_at | Transcribed locus | --- | --- |
| 233330_s_at | Unknown mRNA sequence | --- | --- |
| 236280_at | Transcribed locus | --- | --- |
| 237566_at | Transcribed locus | --- | --- |
| 1561467_at | CDNA clone IMAGE:4831108 | --- | --- |
| 239857_at | CDNA FLJ37227 fis, clone BRAMY2000277 | --- | --- |
| 1553439_at | --- | --- | --- |
| 224005_at | PNAS-130 | --- | --- |
| 241542_at | Transcribed locus | --- | --- |
| 236367_at | --- | --- | 9887 |
| 1570087_at | Homo sapiens, clone IMAGE:4717361, mRNA | --- | --- |
| 1569961_at | Homo sapiens, clone IMAGE:2960615, mRNA | --- | --- |
| 244633_at | Transcribed locus | --- | --- |
| 243356_at | Transcribed locus | --- | --- |
| 240125_at | Transcribed locus | --- | --- |
| 216437_at | CDNA: FLJ21296 fis, clone COL02029 | --- | --- |
| 239784_at | Transcribed locus | --- | --- |
| 242252_at | Transcribed locus | --- | --- |
| 238371_s_at | Transcribed locus | --- | --- |
| 237825_x_at | Transcribed locus | --- | --- |
| 217490_at | MRNA; cDNA DKFZp564P073 (from clone DKFZp564P073) | --- | --- |
| 237652_at | Transcribed locus, strongly similar to XP_529248.1 similar to KIAA0522 protein | --- | --- |
| 236297_at | CDNA FLJ45742 fis, clone KIDNE2016327 | --- | --- |
| 241686_x_at | Transcribed locus | --- | --- |
| 241656_at | Transcribed locus | --- | --- |
| 1560745_at | CDNA clone IMAGE:5299239 | --- | --- |
| 231484_at | Transcribed locus | --- | --- |
| 213658_at | MRNA full length insert cDNA clone EUROIMAGE 826033 | --- | --- |
| 1564323_at | CDNA: FLJ21389 fis, clone COL03455 | --- | --- |
| 243515_at | Homo sapiens, clone IMAGE:3641312, mRNA | --- | --- |
| 243114_at | Transcribed locus | --- | --- |
| 1566607_at | MRNA; cDNA DKFZp667O0522 (from clone DKFZp667O0522) | --- | --- |
| 234640_x_at | CDNA: FLJ22614 fis, clone HSI05089 | --- | --- |
| 230892_at | Transcribed locus | --- | --- |
| 241773_at | --- | --- | --- |
| 212233_at | 3'UTR of hypothetical protein (ORF1) | --- | 4131 |
| 232667_at | CDNA FLJ13690 fis, clone PLACE2000097 | --- | --- |
| 1562849_at | CDNA FLJ37115 fis, clone BRACE2022158 | --- | --- |
| 237034_at | Full-length cDNA clone CS0DC025YP03 of Neuroblastoma Cot 25-normalized of | --- | --- |
| 1557745_at | CDNA FLJ25178 fis, clone CBR09176 | --- | --- |
| 239504_at | --- | --- | --- |
| 1570382_at | --- | --- | --- |
| 233214_at | CDNA FLJ11900 fis, clone HEMBA1007341 | --- | --- |
| 244008_at | --- | --- | --- |
| 242803_at | Transcribed locus | --- | --- |
| 239135_at | Transcribed locus | --- | 55313 |
| 243974_at | CDNA clone IMAGE:4821815 | --- | --- |
| 222159_at | CDNA FLJ12996 fis, clone NT2RP3000235 | --- | --- |
| 242476_at | Transcribed locus | --- | --- |
| 215825_at | Clone 24487 mRNA sequence | --- | --- |
| 1558742_at | Homo sapiens, clone IMAGE:4872114, mRNA | --- | --- |
| 227227_at | CDNA FLJ32605 fis, clone STOMA1000175 | --- | --- |
| 239989_at | Transcribed locus | --- | 54875 |
| 240765_at | --- | --- | --- |
| 217665_at | CDNA FLJ25947 fis, clone JTH14708 | --- | --- |
| 1565535_x_at | --- | --- | --- |
| 230183_at | --- | --- | 2131 |
| 241432_at | Homo sapiens, clone IMAGE:5166236, mRNA | --- | --- |

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|--------------|---|-----|-----------|
| 217177_s_at | CDNA FLJ13658 fis, clone PLACE1011567 | --- | 5787 |
| 237068_at | Transcribed locus | --- | --- |
| 237485_at | Transcribed locus | --- | 6428 |
| 243074_at | Transcribed locus | --- | --- |
| 235108_at | CDNA FLJ41679 fis, clone HCASM2003212 | --- | --- |
| 1562464_at | CDNA clone IMAGE:4792825 | --- | --- |
| 243006_at | CDNA FLJ30333 fis, clone BRACE2007262 | --- | --- |
| 226587_at | CDNA FLJ33569 fis, clone BRAMY2010317 | --- | --- |
| 1560812_at | Homo sapiens, clone IMAGE:5170902, mRNA | --- | --- |
| 216062_at | Transcribed locus | --- | --- |
| 217703_x_at | Transcribed locus | --- | --- |
| 242160_at | Transcribed locus | --- | --- |
| 241016_at | --- | --- | --- |
| 234194_at | CDNA: FLJ21944 fis, clone HEP04662 | --- | --- |
| 232858_at | CDNA FLJ11927 fis, clone HEMBB1000402 | --- | --- |
| 229420_at | CDNA FLJ37566 fis, clone BRCOC2002085 | --- | --- |
| 214989_x_at | CDNA FLJ11875 fis, clone HEMBA1007078 | --- | --- |
| 242969_at | Transcribed locus | --- | --- |
| 232975_at | Homo sapiens, clone IMAGE:6152133, mRNA | --- | --- |
| 235617_x_at | Homo sapiens, clone IMAGE:4293240, mRNA | --- | --- |
| 234099_at | CDNA FLJ13494 fis, clone PLACE1004384 | --- | --- |
| 1563320_at | Full length insert cDNA clone YU69D10 | --- | --- |
| 239237_at | (clone HGP09/HGP32) T cell receptor gamma-2 chain processed pseudogene m--- | --- | --- |
| 232096_x_at | CDNA: FLJ22140 fis, clone HEP20977 | --- | --- |
| 230657_at | Transcribed locus | --- | --- |
| 233433_at | CDNA FLJ13810 fis, clone THYRO1000279 | --- | --- |
| 1560533_at | Homo sapiens, clone IMAGE:5744167, mRNA | --- | --- |
| 234643_x_at | CDNA: FLJ21798 fis, clone HEP00573 | --- | --- |
| 217416_x_at | --- | --- | --- |
| 241803_s_at | --- | --- | 100130623 |
| 244639_at | Transcribed locus | --- | --- |
| 244354_at | ELISC-1 | --- | --- |
| 238000_at | Transcribed locus | --- | --- |
| 1560941_a_at | CDNA FLJ32834 fis, clone TESTI2003236 | --- | --- |
| 233405_at | CDNA FLJ13333 fis, clone OVARC1001828 | --- | --- |
| 234578_at | MRNA; cDNA DKFZp434E1812 (from clone DKFZp434E1812) | --- | --- |
| 238571_at | Transcribed locus | --- | --- |
| 234135_x_at | CDNA FLJ11590 fis, clone HEMBA1003758 | --- | --- |
| 226885_at | Transcribed locus | --- | --- |
| 242732_at | Transcribed locus | --- | --- |
| 237982_at | CDNA clone IMAGE:4827146 | --- | --- |
| 1567008_at | Full length insert cDNA clone YU51G05 | --- | --- |
| 240974_at | Transcribed locus, strongly similar to XP_530947.1 hypothetical protein XP_530--- | --- | --- |
| 234346_x_at | CDNA FLJ11369 fis, clone HEMBA1000338 | --- | --- |
| 242863_at | --- | --- | --- |
| 244726_at | Transcribed locus | --- | --- |
| 234532_at | MRNA; cDNA DKFZp586E1423 (from clone DKFZp586E1423) | --- | --- |
| 235361_at | Transcribed locus | --- | --- |
| 230651_at | Transcribed locus | --- | --- |
| 239992_at | Transcribed locus | --- | --- |
| 239752_at | CDNA FLJ38271 fis, clone FCBBF3002782, moderately similar to Leptin receptor | --- | --- |
| 213848_at | MRNA; cDNA DKFZp586F2224 (from clone DKFZp586F2224) | --- | --- |
| 234667_at | CDNA: FLJ23208 fis, clone ADSE01253 | --- | --- |
| 244375_at | Transcribed locus | --- | --- |
| 214985_at | Clone 24739 mRNA sequence | --- | 2131 |
| 244291_x_at | Transcribed locus | --- | --- |
| 216538_at | MRNA; cDNA DKFZp566C093 (from clone DKFZp566C093) | --- | --- |
| 215479_at | CDNA FLJ20780 fis, clone COL04256 | --- | --- |
| 1567913_at | Clone SS108 A10F1 hypoxanthine phosphoribosyltransferase (hpert) 1200 kb delt--- | --- | --- |
| 1570503_at | Homo sapiens, Similar to likely ortholog of yeast ARV1, clone IMAGE:4576306, r--- | --- | --- |
| 208185_x_at | --- | --- | --- |
| 234322_at | CDNA: FLJ21248 fis, clone COL01235 | --- | --- |
| 1561702_at | CDNA clone IMAGE:5268043 | --- | --- |

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|--------------|--|-----|-----------|
| 216068_at | MRNA; cDNA DKFZp434N021 (from clone DKFZp434N021) | --- | --- |
| 238775_at | Transcribed locus | --- | --- |
| 241907_at | Full length insert cDNA clone YR58A05 | --- | --- |
| 1561877_at | CDNA clone IMAGE:4825762 | --- | --- |
| 230099_at | Transcribed locus | --- | --- |
| 235761_at | CDNA FLJ36553 fis, clone TRACH2008478 | --- | --- |
| 1553275_s_at | --- | --- | --- |
| 231212_x_at | --- | --- | --- |
| 233412_x_at | CDNA FLJ11849 fis, clone HEMBA1006709 | --- | --- |
| 225886_at | Full-length cDNA clone CS0DF030YM05 of Fetal brain of Homo sapiens (human) | --- | --- |
| 233406_at | CDNA FLJ12038 fis, clone HEMBB1001922 | --- | --- |
| 239723_at | Transcribed locus | --- | --- |
| 235696_at | CDNA clone IMAGE:4837650 | --- | --- |
| 242391_at | --- | --- | --- |
| 244605_at | --- | --- | --- |
| 1570290_at | CDNA clone IMAGE:5288437 | --- | --- |
| 1570567_at | CDNA clone IMAGE:4753178 | --- | --- |
| 242471_at | Clone HLS_IMAGE_238756 mRNA sequence | --- | --- |
| 1561642_at | Full length insert cDNA clone YN62D03 | --- | --- |
| 1558588_at | CDNA FLJ10130 fis, clone HEMBA1003035 | --- | --- |
| 243240_at | Transcribed locus | --- | --- |
| 229498_at | MRNA; cDNA DKFZp779M2422 (from clone DKFZp779M2422) | --- | --- |
| 240813_at | Transcribed locus | --- | --- |
| 242397_at | --- | --- | --- |
| 239171_at | --- | --- | --- |
| 238712_at | Transcribed locus | --- | --- |
| 241124_at | Transcribed locus | --- | --- |
| 213960_at | CDNA FLJ37610 fis, clone BRCOC2011398 | --- | 4916 |
| 241466_at | Transcribed locus | --- | --- |
| 1556281_at | Full length insert cDNA clone YI54A07 | --- | --- |
| 216051_x_at | CDNA FLJ14139 fis, clone MAMMA1002830 | --- | 100169750 |
| 242232_at | --- | --- | --- |
| 228341_at | CDNA FLJ34034 fis, clone FCBBF2004671 | --- | --- |
| 230503_at | Transcribed locus | --- | --- |
| 236429_at | Homo sapiens, clone IMAGE:4423835, mRNA | --- | 55769 |
| 1554007_at | CDNA clone IMAGE:5303689 | --- | --- |
| 234282_at | MRNA; cDNA DKFZp586E1423 (from clone DKFZp586E1423) | --- | --- |
| 1566228_at | CDNA clone IMAGE:2988896 | --- | --- |
| 1566954_at | CDNA: FLJ20891 fis, clone ADKA03345 | --- | --- |
| 1556787_s_at | --- | --- | 8654 |
| 241835_at | CDNA clone IMAGE:4822225 | --- | --- |
| 240499_at | Transcribed locus | --- | --- |
| 1562456_at | MRNA; cDNA DKFZp566C0924 (from clone DKFZp566C0924) | --- | --- |
| 234440_at | KT041 mRNA for T-cell receptor delta-chain V(delta)3-N1-D(delta)1-N2-D(delta); | --- | 6955 |
| 239668_at | Transcribed locus | --- | --- |
| 232369_at | Clone IMAGE:119716, mRNA sequence | --- | --- |
| 1557830_at | CDNA FLJ10112 fis, clone HEMBA1002750 | --- | --- |
| 239514_at | Transcribed locus | --- | --- |
| 1570143_at | Homo sapiens, clone IMAGE:3932570, mRNA | --- | --- |
| 215284_at | Clone 24407 mRNA sequence | --- | --- |
| 233017_x_at | CDNA FLJ12326 fis, clone MAMMA1002132 | --- | --- |
| 244389_at | Transcribed locus | --- | --- |
| 244650_at | CDNA FLJ43660 fis, clone SYNOV4004823 | --- | --- |
| 235046_at | Transcribed locus | --- | --- |
| 241785_at | Transcribed locus | --- | --- |
| 1557477_at | CDNA FLJ33037 fis, clone THYMU2000317 | --- | --- |
| 238103_at | CDNA FLJ37936 fis, clone CTONG2005468 | --- | --- |
| 227426_at | Transcribed locus | --- | 6654 |
| 238895_at | Transcribed locus | --- | --- |
| 215864_at | CDNA: FLJ21424 fis, clone COL04157 | --- | --- |
| 1565599_at | Clone 23712 mRNA sequence | --- | --- |
| 233508_at | Transcribed locus | --- | --- |
| 240290_at | Transcribed locus | --- | --- |

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|--------------|---|-----|-------|
| 240046_at | --- | --- | --- |
| 243480_at | --- | --- | --- |
| 233445_at | Transcribed locus | --- | --- |
| 242175_at | --- | --- | --- |
| 216751_at | CDNA: FLJ21226 fis, clone COL00721 | --- | --- |
| 236881_at | Transcribed locus | --- | --- |
| 1560433_at | CDNA FLJ31398 fis, clone NT2NE1000175 | --- | --- |
| 216757_at | CDNA: FLJ21342 fis, clone COL02673 | --- | --- |
| 1560798_at | CDNA FLJ14121 fis, clone MAMMA1002009 | --- | --- |
| 244185_at | Transcribed locus | --- | --- |
| 220871_at | --- | --- | --- |
| 1569987_at | Homo sapiens, clone IMAGE:5583231, mRNA | --- | --- |
| 216739_at | CDNA: FLJ20874 fis, clone ADKA02818 | --- | --- |
| 239467_at | Transcribed locus | --- | --- |
| 239840_at | CDNA clone IMAGE:4814828 | --- | --- |
| 1563715_at | MRNA; cDNA DKFZp761B0221 (from clone DKFZp761B0221) | --- | --- |
| 1556595_at | CDNA clone IMAGE:4828841 | --- | --- |
| 231680_at | Transcribed locus | --- | --- |
| 1558739_at | CDNA FLJ37336 fis, clone BRAMY2020412 | --- | --- |
| 240738_at | Transcribed locus | --- | --- |
| 1556832_at | CDNA FLJ34046 fis, clone FCBBF2007610 | --- | --- |
| 1559066_at | Transcribed locus | --- | --- |
| 233775_x_at | CDNA FLJ13242 fis, clone OVARC1000578 | --- | --- |
| 243584_at | Transcribed locus | --- | --- |
| 230416_at | Transcribed locus | --- | --- |
| 1562408_at | CDNA clone IMAGE:5269062 | --- | --- |
| 206962_x_at | --- | --- | --- |
| 233736_at | --- | --- | 79470 |
| 241303_x_at | --- | --- | --- |
| 243615_at | Transcribed locus | --- | --- |
| 237632_at | --- | --- | --- |
| 244530_at | Transcribed locus | --- | --- |
| 242110_at | Transcribed locus | --- | --- |
| 234101_at | CDNA FLJ11044 fis, clone PLACE1004451 | --- | --- |
| 217449_at | MRNA; cDNA DKFZp434D1516 (from clone DKFZp434D1516) | --- | --- |
| 230688_at | Clone IMAGE:238558, mRNA sequence | --- | --- |
| 1566709_at | CDNA: FLJ21287 fis, clone COL01918 | --- | --- |
| 1568983_a_at | CDNA clone IMAGE:5261717 | --- | --- |
| 231471_at | Transcribed locus | --- | --- |
| 1556582_at | CDNA FLJ25946 fis, clone JTH14258 | --- | --- |
| 226625_at | --- | --- | 7049 |
| 233579_at | CDNA: FLJ22749 fis, clone KAIA0458 | --- | --- |
| 234020_x_at | CDNA clone IMAGE:4698949 | --- | --- |
| 241922_at | --- | --- | --- |
| 242787_at | Transcribed locus | --- | --- |
| 238785_at | Transcribed locus | --- | --- |
| 221174_at | --- | --- | --- |
| 240824_at | Transcribed locus | --- | --- |
| 1566003_x_at | CDNA FLJ38745 fis, clone KIDNE2012291 | --- | --- |
| 1563244_at | CDNA clone IMAGE:3881027 | --- | --- |
| 241852_at | Transcribed locus | --- | --- |
| 208263_at | --- | --- | 6731 |
| 240800_x_at | Transcribed locus | --- | --- |
| 234566_at | MRNA; cDNA DKFZp761E11121 (from clone DKFZp761E11121) | --- | --- |
| 242784_at | Transcribed locus | --- | --- |
| 1561303_at | CDNA clone IMAGE:4828317 | --- | --- |
| 227665_at | CDNA clone IMAGE:5500261 | --- | --- |
| 242952_at | --- | --- | --- |
| 243768_at | Transcribed locus | --- | --- |
| 238620_at | Transcribed locus | --- | --- |
| 241375_at | Transcribed locus | --- | --- |
| 233834_at | CDNA: FLJ21392 fis, clone COL03505 | --- | --- |
| 237716_at | --- | --- | --- |

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|--------------|---|-----|--------------|
| 237104_at | Transcribed locus | --- | --- |
| 1562069_at | --- | --- | --- |
| 241491_at | Transcribed locus | --- | --- |
| 1566716_at | MRNA; cDNA DKFZp566F0224 (from clone DKFZp566F0224) | --- | --- |
| 1561155_at | Full length insert cDNA clone ZD60E09 | --- | --- |
| 242868_at | Transcribed locus | --- | --- |
| 1560474_at | Homo sapiens, clone IMAGE:4294221, mRNA | --- | --- |
| 232789_at | --- | --- | --- |
| 239734_at | Transcribed locus | --- | --- |
| 1552976_at | --- | --- | --- |
| 243902_at | Transcribed locus | --- | --- |
| 216858_x_at | --- | --- | --- |
| 213642_at | --- | --- | --- |
| 229083_at | Full-length cDNA clone CS0DC006YB07 of Neuroblastoma Cot 25-normalized of | --- | 10949 |
| 1561360_at | CDNA clone IMAGE:5272441 | --- | --- |
| 217446_x_at | MRNA; cDNA DKFZp434M054 (from clone DKFZp434M054) | --- | --- |
| 221155_x_at | PRO1496 | --- | --- |
| 236569_at | Transcribed locus | --- | --- |
| 237571_at | Transcribed locus | --- | --- |
| 244028_at | Transcribed locus | --- | --- |
| 1556568_a_at | Clone C4E 5.3 (CAC)n/(GTG)n repeat-containing mRNA | --- | --- |
| 1560995_s_at | Full length insert cDNA clone ZD81E01 | --- | --- |
| 228380_at | Transcribed locus | --- | --- |
| 228088_at | CDNA FLJ31513 fis, clone NT2RI1000127 | --- | 91404 |
| 229781_at | Full-length cDNA clone CS0DI036YE11 of Placenta Cot 25-normalized of Homo s | --- | --- |
| 229920_at | Transcribed locus | --- | --- |
| 234239_at | CDNA: FLJ21668 fis, clone COL08982 | --- | --- |
| 232511_at | CDNA FLJ41714 fis, clone HLUNG2012287 | --- | --- |
| 236419_at | Transcribed locus | --- | --- |
| 242978_x_at | Transcribed locus | --- | --- |
| 213543_at | MRNA from chromosome 5q31-33 region | --- | 6444 |
| 1558504_at | Full length insert cDNA clone ZE14C04 | --- | --- |
| 235538_at | CDNA FLJ30718 fis, clone FCBBF2001675 | --- | --- |
| 244145_at | Transcribed locus | --- | --- |
| 1570350_at | Homo sapiens, Similar to hypothetical protein FLJ20234, clone IMAGE:5210552, | --- | --- |
| 233185_at | CDNA FLJ37783 fis, clone BRHIP2028187 | --- | --- |
| 239017_at | Transcribed locus, moderately similar to XP_497913.3 similar to alpha 3 type VI | --- | --- |
| 222368_at | CDNA FLJ37098 fis, clone BRACE2019004 | --- | --- |
| 242628_at | Transcribed locus | --- | --- |
| 1562974_at | CDNA clone IMAGE:5302821 | --- | 100133899 |
| 241555_at | Transcribed locus | --- | --- |
| 243078_at | --- | --- | --- |
| 233702_x_at | CDNA: FLJ20946 fis, clone ADSE01819 | --- | --- |
| 1564656_at | --- | --- | --- |
| 1556328_at | CDNA clone IMAGE:5301690 | --- | --- |
| 242924_at | --- | --- | --- |
| 1553588_at | --- | --- | 30011 /// 4! |
| 233690_at | CDNA: FLJ23090 fis, clone LNG07119 | --- | --- |
| 235860_at | Transcribed locus | --- | --- |
| 216702_x_at | Unknown protein | --- | --- |
| 220820_at | --- | --- | --- |
| 240495_at | CDNA clone IMAGE:5266735 | --- | --- |
| 1559495_at | CDNA clone IMAGE:4829327 | --- | --- |
| 65472_at | Transcribed locus | --- | 388969 |
| 1562674_at | Homo sapiens, clone IMAGE:5165176, mRNA | --- | --- |
| 1569091_at | CDNA clone IMAGE:5312161 | --- | --- |
| 231374_at | Transcribed locus | --- | --- |
| 243801_x_at | Transcribed locus | --- | --- |
| 1560214_at | --- | --- | --- |
| 1566231_at | MRNA; cDNA DKFZp667I0318 (from clone DKFZp667I0318) | --- | --- |
| 227087_at | CDNA FLJ34214 fis, clone FCBBF3021807 | --- | --- |
| 242763_at | --- | --- | --- |
| 241945_at | --- | --- | --- |

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|--------------|--|-----|-----------|
| 229803_s_at | Transcribed locus | --- | --- |
| 217322_x_at | --- | --- | --- |
| 241015_at | Transcribed locus | --- | --- |
| 236577_at | Transcribed locus | --- | --- |
| 216126_at | --- | --- | --- |
| 240798_at | --- | --- | --- |
| 236282_at | CDNA clone IMAGE:4826240 | --- | --- |
| 241100_at | Transcribed locus | --- | --- |
| 1561560_at | CDNA clone IMAGE:5288946 | --- | --- |
| 228930_at | MRNA full length insert cDNA clone EUROIMAGE 898037 | --- | --- |
| 1554948_at | --- | --- | --- |
| 1569004_at | Homo sapiens, Similar to neuronal thread protein, clone IMAGE:4106635, mRNA | --- | --- |
| 1558977_at | CDNA FLJ37263 fis, clone BRAMY2011064 | --- | --- |
| 235134_at | CDNA FLJ30156 fis, clone BRACE2000487 | --- | --- |
| 241129_at | Transcribed locus | --- | --- |
| 239236_at | Transcribed locus | --- | --- |
| 235730_at | CDNA FLJ34425 fis, clone HHDPC2008297 | --- | --- |
| 1556148_s_at | CDNA clone IMAGE:5274427 | --- | --- |
| 1570061_at | CDNA clone IMAGE:4555030 | --- | --- |
| 233511_at | CDNA clone IMAGE:5271538 | --- | --- |
| 232471_at | CDNA FLJ11954 fis, clone HEMBB1000888 | --- | --- |
| 233726_at | MRNA; cDNA DKFZp586C1523 (from clone DKFZp586C1523) | --- | --- |
| 230886_at | Transcribed locus | --- | --- |
| 232709_at | CDNA FLJ13427 fis, clone PLACE1002477 | --- | --- |
| 226865_at | MRNA; cDNA DKFZp564O0862 (from clone DKFZp564O0862) | --- | --- |
| 242861_at | --- | --- | --- |
| 239376_at | CDNA clone IMAGE:4333081 | --- | --- |
| 237609_at | Transcribed locus | --- | --- |
| 224375_at | --- | --- | --- |
| 243174_at | Transcribed locus | --- | --- |
| 234150_at | CDNA FLJ13777 fis, clone PLACE4000392 | --- | --- |
| 1562529_s_at | Homo sapiens, clone IMAGE:5747561, mRNA | --- | --- |
| 1557353_at | CDNA FLJ38904 fis, clone NT2NE2001524 | --- | --- |
| 244674_at | Transcribed locus | --- | --- |
| 242188_at | Transcribed locus | --- | --- |
| 241630_at | --- | --- | --- |
| 1557817_a_at | HSPC103 | --- | 100131941 |
| 242895_x_at | Transcribed locus | --- | --- |
| 236716_at | CDNA clone IMAGE:5303125 | --- | --- |
| 244475_at | Transcribed locus, strongly similar to XP_001139231.1 hypothetical protein [Pai | --- | --- |
| 244618_at | Transcribed locus | --- | --- |
| 237983_at | --- | --- | --- |
| 235419_at | Transcribed locus | --- | --- |
| 231181_at | Transcribed locus | --- | --- |
| 215604_x_at | CDNA FLJ13721 fis, clone PLACE2000450 | --- | --- |
| 235456_at | CDNA clone IMAGE:4819084 | --- | --- |
| 233995_at | Clone HQ0663 PRO0663 | --- | --- |
| 221043_at | --- | --- | --- |
| 242607_at | Transcribed locus | --- | --- |
| 1559201_a_at | CDNA FLJ33715 fis, clone BRAWH2008577 | --- | --- |
| 1565579_at | CDNA clone IMAGE:3689276 | --- | --- |
| 1561112_at | CDNA clone IMAGE:5299117 | --- | --- |
| 1559691_at | CDNA clone IMAGE:3869664 | --- | --- |
| 239300_at | CDNA clone IMAGE:4798675 | --- | --- |
| 226779_at | CDNA FLJ37302 fis, clone BRAMY2016009 | --- | --- |
| 242407_at | --- | --- | --- |
| 238674_at | Transcribed locus | --- | --- |
| 234184_at | CDNA: FLJ21495 fis, clone COL05614 | --- | --- |
| 231695_at | --- | --- | --- |
| 215221_at | CDNA: FLJ21411 fis, clone COL03986 | --- | --- |
| 231038_s_at | Transcribed locus, strongly similar to XP_001101257.1 similar to sterol regulato | --- | --- |
| 1566809_a_at | CDNA clone IMAGE:5272727 | --- | --- |
| 1562598_at | CDNA FLJ37010 fis, clone BRACE2009732 | --- | --- |

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|--------------|--|-----|-----------|
| 239946_at | Transcribed locus | --- | --- |
| 228032_s_at | CDNA FLJ36663 fis, clone UTERU2002826 | --- | --- |
| 1560070_at | CDNA clone IMAGE:4828738 | --- | --- |
| 239231_at | CDNA FLJ41910 fis, clone PEBLM2007834 | --- | --- |
| 236659_x_at | Transcribed locus | --- | --- |
| 236508_at | Transcribed locus | --- | --- |
| 235756_at | CDNA FLJ26187 fis, clone ADG04782 | --- | --- |
| 1563296_at | Homo sapiens, clone IMAGE:5171352, mRNA | --- | --- |
| 1564444_at | CDNA FLJ40178 fis, clone TESTI2017932 | --- | 100130264 |
| 1569129_s_at | Homo sapiens, clone IMAGE:4695648, mRNA | --- | 285237 |
| 1570326_at | CDNA clone IMAGE:4185545 | --- | --- |
| 242926_at | Transcribed locus | --- | --- |
| 233152_x_at | MRNA; cDNA DKFZp564C142 (from clone DKFZp564C142) | --- | --- |
| 241893_at | Transcribed locus | --- | --- |
| 225722_at | CDNA FLJ31233 fis, clone KIDNE2004579 | --- | --- |
| 237999_at | --- | --- | --- |
| 242770_at | CDNA FLJ44826 fis, clone BRACE3046762 | --- | 642236 |
| 1560135_at | CDNA clone IMAGE:4822830 | --- | --- |
| 242878_at | --- | --- | --- |
| 240494_at | Transcribed locus | --- | --- |
| 227293_at | CDNA FLJ34052 fis, clone FCBBF3000175 | --- | --- |
| 244086_at | --- | --- | --- |
| 216669_at | --- | --- | --- |
| 242025_at | --- | --- | --- |
| 215290_at | Clone 24571 mRNA sequence | --- | --- |
| 236961_at | Transcribed locus | --- | --- |
| 216159_s_at | CDNA FLJ13695 fis, clone PLACE2000124 | --- | --- |
| 229934_at | Mir-223 transcript variant 1 mRNA, complete sequence | --- | --- |
| 1568656_at | CDNA clone IMAGE:5265210 | --- | --- |
| 1562235_s_at | Transcribed locus | --- | --- |
| 216582_at | --- | --- | 94026 |
| 239407_at | CDNA clone IMAGE:4837199 | --- | --- |
| 243973_at | Transcribed locus | --- | --- |
| 1570506_at | Homo sapiens, clone IMAGE:4093039, mRNA | --- | --- |
| 241517_at | --- | --- | --- |
| 1570108_at | CDNA clone IMAGE:4815481 | --- | --- |
| 233786_at | CDNA FLJ10171 fis, clone HEMBA1003807 | --- | --- |
| 1566426_at | MRNA; cDNA DKFZp451O169 (from clone DKFZp451O169) | --- | --- |
| 234611_at | CDNA clone IMAGE:4903661 | --- | --- |
| 241724_x_at | Transcribed locus | --- | --- |
| 241654_at | Transcribed locus | --- | --- |
| 1559735_at | CDNA FLJ36035 fis, clone TESTI2017113 | --- | --- |
| 233319_x_at | CDNA FLJ13845 fis, clone THYRO1000815 | --- | --- |
| 240869_at | Full length insert cDNA clone ZE05A03 | --- | --- |
| 1556835_s_at | CDNA clone IMAGE:5296106 | --- | --- |
| 1561199_at | CDNA clone IMAGE:4831149 | --- | --- |
| 240727_s_at | Transcribed locus | --- | --- |
| 233696_at | CDNA: FLJ21357 fis, clone COL02835 | --- | --- |
| 244075_at | Transcribed locus | --- | --- |
| 238145_at | Transcribed locus | --- | 84838 |
| 1556543_at | Full length insert cDNA clone YW18F01 | --- | --- |
| 242373_at | Transcribed locus | --- | --- |
| 1564069_at | CDNA FLJ36668 fis, clone UTERU2003926 | --- | --- |
| 241764_at | --- | --- | --- |
| 1556385_at | CDNA FLJ39926 fis, clone SPLEN2021157 | --- | --- |
| 222341_x_at | Transcribed locus | --- | --- |
| 238700_at | Transcribed locus | --- | --- |
| 1555000_at | OK/SW-CL.36 | --- | 100131077 |
| 1562289_at | MRNA; cDNA DKFZp434N0220 (from clone DKFZp434N0220) | --- | --- |
| 214139_at | --- | --- | --- |
| 234425_at | --- | --- | --- |
| 244387_at | Transcribed locus | --- | --- |
| 1553551_s_at | --- | --- | 4536 |

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|--------------|--|-----|-----------|
| 242975_s_at | Transcribed locus | --- | --- |
| 235917_at | Transcribed locus | --- | --- |
| 226343_at | Transcribed locus, weakly similar to NP_689672.2 protein LOC146556 [Homo sa | --- | --- |
| 211976_at | CDNA: FLJ22515 fis, clone HRC12122, highly similar to AF052101 Homo sapiens | --- | --- |
| 242461_at | --- | --- | --- |
| 239775_at | Transcribed locus | --- | 100131512 |
| 238191_at | Transcribed locus | --- | --- |
| 1564498_at | --- | --- | --- |
| 1570631_at | CDNA clone IMAGE:4826992 | --- | --- |
| 241435_at | --- | --- | --- |
| 242526_at | Transcribed locus | --- | --- |
| 216175_at | CDNA: FLJ21623 fis, clone COL07915 | --- | --- |
| 242810_x_at | --- | --- | --- |
| 1557410_at | CDNA FLJ33271 fis, clone ASTRO2007666 | --- | --- |
| 217614_at | Transcribed locus | --- | --- |
| 233218_at | CDNA FLJ12177 fis, clone MAMMA1000720 | --- | --- |
| 216644_at | CDNA FLJ20178 fis, clone COL09990 | --- | --- |
| 244520_at | Transcribed locus | --- | --- |
| 241581_at | Transcribed locus | --- | --- |
| 240442_at | --- | --- | --- |
| 238536_at | CDNA FLJ13474 fis, clone PLACE1003593 | --- | --- |
| 244831_at | Transcribed locus | --- | --- |
| 224340_at | --- | --- | --- |
| 241592_at | Transcribed locus | --- | --- |
| 239086_at | Transcribed locus | --- | --- |
| 216643_at | MRNA, clone:RES4-16 | --- | --- |
| 1560509_at | MRNA; cDNA DKFZp547H194 (from clone DKFZp547H194) | --- | --- |
| 1561737_at | MRNA; cDNA DKFZp667L064 (from clone DKFZp667L064) | --- | --- |
| 1558236_at | --- | --- | --- |
| 236506_at | Transcribed locus | --- | --- |
| 242059_at | Transcribed locus | --- | --- |
| 241993_x_at | Transcribed locus | --- | --- |
| 216173_at | CDNA: FLJ21707 fis, clone COL09953 | --- | --- |
| 1557276_at | CDNA clone IMAGE:4828503 | --- | --- |
| 232410_at | MRNA differentially expressed from human RPE cell in differential display expe | --- | --- |
| 215628_x_at | MRNA; cDNA DKFZp564M193 (from clone DKFZp564M193) | --- | --- |
| 226457_at | CDNA FLJ30340 fis, clone BRACE2007411 | --- | --- |
| 230604_at | Transcribed locus, moderately similar to XP_512041.1 similar to Myosin regulat | --- | --- |
| 1567575_at | Trapped 3' terminal exon, clone C2C4 | --- | --- |
| 235808_at | Transcribed locus | --- | --- |
| 240255_at | CDNA clone IMAGE:3625232 | --- | --- |
| 217637_at | Full length insert cDNA clone ZE05A03 | --- | --- |
| 230479_at | Transcribed locus | --- | --- |
| 240847_at | Transcribed locus | --- | --- |
| 228304_at | Transcribed locus | --- | --- |
| 1562432_at | CDNA clone IMAGE:4794272 | --- | --- |
| 244335_at | Transcribed locus | --- | --- |
| 242171_at | --- | --- | --- |
| 237924_at | Transcribed locus | --- | --- |
| 239603_x_at | --- | --- | --- |
| 242032_at | Transcribed locus | --- | 57498 |
| 233111_at | CDNA FLJ13886 fis, clone THYRO1001559 | --- | --- |
| 232592_at | CDNA FLJ11982 fis, clone HEMBB1001335 | --- | --- |
| 224549_x_at | --- | --- | --- |
| 1566146_x_at | CDNA FLJ41018 fis, clone UTERU2018881 | --- | --- |
| 1565823_at | Transcribed locus | --- | --- |
| 239069_s_at | Transcribed locus, moderately similar to XP_517655.1 similar to KIAA0825 prot | --- | --- |
| 242693_at | Transcribed locus | --- | --- |
| 1570246_at | CDNA clone IMAGE:4778480 | --- | --- |
| 1559332_at | Homo sapiens, clone IMAGE:4108653, mRNA | --- | --- |
| 241096_at | Transcribed locus | --- | --- |
| 243236_at | Transcribed locus | --- | --- |
| 242068_at | Transcribed locus | --- | --- |

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|--------------|---|-----|-----------|
| 1566541_at | MRNA; cDNA DKFZp761D2417 (from clone DKFZp761D2417) | --- | --- |
| 1561558_at | CDNA clone IMAGE:5561426 | --- | --- |
| 215553_x_at | CDNA FLJ14253 fis, clone OVARC1001376 | --- | --- |
| 240964_at | Transcribed locus | --- | --- |
| 238360_s_at | CDNA clone IMAGE:5259979 | --- | --- |
| 238420_at | CDNA clone IMAGE:5263531 | --- | --- |
| 1567997_x_at | --- | --- | --- |
| 231473_at | Transcribed locus | --- | --- |
| 215204_at | CDNA FLJ14090 fis, clone MAMMA1000264 | --- | --- |
| 238372_s_at | Transcribed locus | --- | --- |
| 239886_at | Transcribed locus | --- | --- |
| 233248_at | CDNA FLJ11966 fis, clone HEMBB1001114 | --- | --- |
| 225572_at | CDNA FLJ34215 fis, clone FCBBF3021985 | --- | 1385 |
| 1560706_at | MRNA; cDNA DKFZp667N1617 (from clone DKFZp667N1617) | --- | --- |
| 228573_at | Full-length cDNA clone CS0DD001YA12 of Neuroblastoma Cot 50-normalized of | --- | --- |
| 1558385_at | --- | --- | --- |
| 238604_at | CDNA FLJ25559 fis, clone JTH02834 | --- | --- |
| 234991_at | Transcribed locus, strongly similar to XP_001111447.1 transforming growth fac | --- | --- |
| 235483_at | CDNA FLJ30906 fis, clone FEBRA2006055 | --- | --- |
| 227167_s_at | Mesenchymal stem cell protein DSC96 | --- | --- |
| 241887_at | CDNA FLJ41537 fis, clone BRTHA2017985 | --- | --- |
| 235174_s_at | CDNA clone IMAGE:5286843 | --- | 100128822 |
| 1566959_at | MRNA; cDNA DKFZp564H023 (from clone DKFZp564H023) | --- | --- |
| 202603_at | Clone MO-30 mRNA sequence | --- | --- |
| 226052_at | Transcribed locus | --- | 23476 |
| 225221_at | CDNA FLJ32068 fis, clone OCBBF1000114 | --- | --- |
| 216006_at | Clone 24694 mRNA sequence | --- | --- |
| 234326_at | CDNA: FLJ21248 fis, clone COL01235 | --- | --- |
| 242827_x_at | Transcribed locus | --- | --- |
| 241774_at | Transcribed locus | --- | --- |
| 225567_at | MRNA; cDNA DKFZp762E1314 (from clone DKFZp762E1314) | --- | --- |
| 237289_at | CDNA FLJ34215 fis, clone FCBBF3021985 | --- | 1385 |
| 237626_at | Transcribed locus | --- | --- |
| 222371_at | MRNA; cDNA DKFZp686B1142 (from clone DKFZp686B1142) | --- | --- |
| 243046_at | Homo sapiens, clone IMAGE:4295366, mRNA | --- | --- |
| 227943_at | --- | --- | --- |
| 239605_x_at | Transcribed locus | --- | --- |
| 241508_at | --- | --- | --- |
| 240013_at | Transcribed locus | --- | --- |
| 243020_at | Transcribed locus | --- | --- |
| 236685_at | Transcribed locus | --- | --- |
| 241885_at | Transcribed locus | --- | --- |
| 229695_at | CDNA FLJ39366 fis, clone PEBLM2006283 | --- | --- |
| 238739_at | --- | --- | --- |
| 229673_at | Full-length cDNA clone CS0CAP006YP08 of Thymus of Homo sapiens (human) | --- | --- |
| 1555303_at | --- | --- | --- |
| 243931_at | Transcribed locus | --- | --- |
| 235407_at | Transcribed locus | --- | --- |
| 238563_at | Transcribed locus | --- | --- |
| 241438_at | Transcribed locus | --- | --- |
| 234983_at | Transcribed locus | --- | --- |
| 228723_at | CDNA FLJ30445 fis, clone BRACE2009238 | --- | --- |
| 217521_at | Transcribed locus | --- | --- |
| 240019_at | --- | --- | --- |
| 229699_at | CDNA FLJ45384 fis, clone BRHIP3021987 | --- | 100129550 |
| 233010_at | CDNA FLJ14313 fis, clone PLACE3000341 | --- | --- |
| 228869_at | Transcribed locus | --- | --- |
| 239764_at | MRNA; cDNA DKFZp686D1113 (from clone DKFZp686D1113) | --- | --- |
| 230795_at | Transcribed locus | --- | --- |
| 238469_at | MRNA full length insert cDNA clone EUROIMAGE 1509279 | --- | 79627 |
| 1560869_a_at | Full length insert cDNA clone YQ50C11 | --- | --- |
| 242403_at | Transcribed locus | --- | --- |
| 242556_at | --- | --- | --- |

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|--------------|---|-----|-----------|
| 224778_s_at | CDNA clone IMAGE:5263531 | --- | --- |
| 227278_at | --- | --- | --- |
| 229128_s_at | Transcribed locus | --- | 81611 |
| 244648_at | Transcribed locus | --- | --- |
| 231552_at | Transcribed locus | --- | --- |
| 235324_at | Transcribed locus | --- | 6428 |
| 1556942_at | MRNA; cDNA DKFZp686E0813 (from clone DKFZp686E0813) | --- | --- |
| 226873_at | CDNA clone IMAGE:4794011 | --- | --- |
| 203704_s_at | --- | --- | 6239 |
| 1560622_at | CDNA FLJ20196 fis, clone COLF0944 | --- | --- |
| 242725_at | CDNA FLJ42225 fis, clone THYMU2040427 | --- | --- |
| 215191_at | CDNA FLJ14085 fis, clone HEMBB1002534 | --- | --- |
| 227356_at | CDNA: FLJ22198 fis, clone HRC01218 | --- | --- |
| 228812_at | Transcribed locus | --- | --- |
| 230304_at | CDNA clone IMAGE:30332316 | --- | --- |
| 239646_at | Transcribed locus | --- | --- |
| 232628_at | CDNA FLJ13464 fis, clone PLACE1003478 | --- | --- |
| 241924_at | Transcribed locus | --- | --- |
| 213532_at | --- | --- | 6868 |
| 240165_at | Transcribed locus | --- | --- |
| 226277_at | CDNA FLJ43397 fis, clone OCBBF2009788 | --- | 10087 |
| 222058_at | --- | --- | --- |
| 225227_at | CDNA clone IMAGE:5299642 | --- | --- |
| 227501_at | Transcribed locus | --- | --- |
| 239798_at | Transcribed locus | --- | --- |
| 1569952_x_at | CDNA clone IMAGE:4814292 | --- | --- |
| 212952_at | Transcribed locus | --- | --- |
| 241867_at | Transcribed locus | --- | --- |
| 1558448_a_at | CDNA FLJ35687 fis, clone SPLEN2019349 | --- | 100128439 |
| 236198_at | Transcribed locus | --- | --- |
| 244087_at | Transcribed locus | --- | --- |
| 225239_at | CDNA FLJ26120 fis, clone SYN00419 | --- | --- |
| 236322_at | Transcribed locus | --- | --- |
| 224769_at | CDNA clone IMAGE:5263531 | --- | --- |
| 229460_at | CDNA FLJ37917 fis, clone CTONG1000137 | --- | --- |
| 235242_at | CDNA FLJ41375 fis, clone BRCAN2007700 | --- | --- |
| 235589_s_at | Transcribed locus | --- | 4194 |
| 244219_at | Transcribed locus | --- | --- |
| 1566901_at | MRNA; cDNA DKFZp667F2113 (from clone DKFZp667F2113) | --- | 7050 |
| 244598_at | Full length insert cDNA clone ZD66F04 | --- | --- |
| 234632_x_at | CDNA: FLJ22614 fis, clone HSI05089 | --- | --- |
| 229455_at | Full length insert cDNA clone YZ04E02 | --- | --- |
| 240439_at | --- | --- | --- |
| 226190_at | Homo sapiens, clone IMAGE:4294444, mRNA | --- | --- |
| 237768_x_at | --- | --- | --- |
| 235716_at | Transcribed locus | --- | --- |
| 228582_x_at | Transcribed locus | --- | --- |
| 213817_at | CDNA FLJ13601 fis, clone PLACE1010069 | --- | --- |
| 226441_at | CDNA FLJ36574 fis, clone TRACH2012376 | --- | --- |
| 243465_at | CDNA FLJ32348 fis, clone PROST2007200 | --- | --- |
| 227755_at | CDNA clone IMAGE:4077090 | --- | --- |
| 236402_at | CDNA FLJ42263 fis, clone TKIDN2014570 | --- | --- |
| 228188_at | --- | --- | 2355 |
| 227851_s_at | Transcribed locus | --- | --- |
| 239287_at | Transcribed locus | --- | --- |
| 222111_at | CDNA clone IMAGE:4794011 | --- | --- |
| 224603_at | CDNA clone IMAGE:3831740 | --- | --- |
| 229410_at | MRNA; cDNA DKFZp564G0462 (from clone DKFZp564G0462) | --- | 79939 |
| 226556_at | Homo sapiens, clone IMAGE:4294444, mRNA | --- | --- |
| 228528_at | CDNA FLJ41270 fis, clone BRAMY2036387 | --- | --- |
| 227044_at | Full-length cDNA clone CSODI009YA14 of Placenta Cot 25-normalized of Homo s | --- | --- |
| 232002_at | MRNA; cDNA DKFZp547I084 (from clone DKFZp547I084) | --- | --- |
| 229814_at | Transcribed locus | --- | --- |

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|-------------|---|-----|-----------|
| 226397_s_at | Transcribed locus | --- | --- |
| 243675_at | Transcribed locus | --- | --- |
| 244677_at | Transcribed locus | --- | --- |
| 241824_at | Transcribed locus | --- | --- |
| 213700_s_at | Transcribed locus | --- | --- |
| 226146_at | CDNA clone IMAGE:5294560 | --- | --- |
| 225950_at | Transcribed locus | --- | --- |
| 213396_s_at | Full-length cDNA clone CS0DJ012YG05 of T cells (Jurkat cell line) Cot 10-normali; | --- | --- |
| 226348_at | --- | --- | --- |
| 1558783_at | CDNA: FLJ21152 fis, clone CAS09594 | --- | --- |
| 227368_at | Transcribed locus, moderately similar to XP_001091208.1 hypothetical protein | --- | --- |
| 231972_at | CDNA: FLJ21028 fis, clone CAE07155 | --- | --- |
| 232094_at | CDNA FLJ11404 fis, clone HEMBA1000749 | --- | 79768 |
| 201295_s_at | --- | --- | 26118 |
| 225750_at | CDNA FLJ14162 fis, clone NT2RM4002504 | --- | --- |
| 236495_at | Transcribed locus | --- | --- |
| 239619_at | --- | --- | --- |
| 226347_at | --- | --- | --- |
| 236180_at | Transcribed locus | --- | --- |
| 237890_at | Transcribed locus | --- | --- |
| 232072_at | --- | --- | --- |
| 242375_x_at | --- | --- | --- |
| 1561486_at | MRNA; cDNA DKFZp666M193 (from clone DKFZp666M193) | --- | --- |
| 1560156_at | Homo sapiens, clone IMAGE:5735420, mRNA | --- | --- |
| 236825_at | Transcribed locus | --- | --- |
| 1563473_at | MRNA; cDNA DKFZp761L0320 (from clone DKFZp761L0320) | --- | --- |
| 225274_at | Transcribed locus | --- | 51449 |
| 243626_at | Transcribed locus, moderately similar to XP_497913.3 similar to alpha 3 type VI | --- | --- |
| 241353_s_at | Transcribed locus, strongly similar to XP_531081.2 hypothetical protein [Pan trc | --- | 100134560 |
| 228107_at | --- | --- | 100127983 |
| 1563841_at | MRNA; cDNA DKFZp547I2317 (from clone DKFZp547I2317) | --- | --- |
| 232656_at | CDNA FLJ11692 fis, clone HEMBA1004983 | --- | --- |
| 235530_at | CDNA FLJ38922 fis, clone NT2NE2011691 | --- | --- |
| 64488_at | CDNA FLJ38849 fis, clone MESAN2008936 | --- | --- |
| 1560102_at | Transcribed locus | --- | --- |
| 239124_at | Transcribed locus | --- | --- |
| 230631_s_at | Full-length cDNA clone CS0DI051YA02 of Placenta Cot 25-normalized of Homo s | --- | --- |
| 236132_at | --- | --- | 7094 |
| 216782_at | CDNA: FLJ23492 fis, clone LNG01731 | --- | --- |
| 244373_at | Transcribed locus | --- | --- |
| 1558447_at | CDNA FLJ35687 fis, clone SPLEN2019349 | --- | 100128439 |
| 243641_at | Transcribed locus, moderately similar to XP_517655.1 similar to KIAA0825 prot | --- | --- |
| 244600_at | Transcribed locus, strongly similar to XP_001157267.1 hypothetical protein [Pa | --- | --- |
| 237154_at | Transcribed locus | --- | --- |
| 232472_at | CDNA FLJ12399 fis, clone MAMMA1002780 | --- | --- |
| 244000_at | CDNA FLJ14364 fis, clone HEMBA1000918 | --- | --- |
| 244447_at | Transcribed locus | --- | --- |
| 236480_at | CDNA FLJ41489 fis, clone BRTHA2004582 | --- | --- |
| 230710_at | CDNA FLJ41489 fis, clone BRTHA2004582 | --- | --- |
| 236474_at | Transcribed locus | --- | --- |
| 243355_at | Transcribed locus, strongly similar to XP_001095858.1 aspartyl-tRNA synthetas | --- | 100131316 |
| 1570329_at | Homo sapiens, clone IMAGE:4853422, mRNA | --- | --- |
| 232286_at | CDNA FLJ12187 fis, clone MAMMA1000831 | --- | --- |
| 238228_at | --- | --- | --- |
| 239401_at | Transcribed locus | --- | --- |
| 232225_at | CDNA FLJ11764 fis, clone HEMBA1005685 | --- | --- |
| 242758_x_at | Transcribed locus | --- | 55818 |
| 231099_at | MRNA; cDNA DKFZp547C072 (from clone DKFZp547C072) | --- | --- |
| 231233_at | --- | --- | --- |
| 238656_at | Transcribed locus | --- | --- |
| 243246_at | Transcribed locus | --- | --- |
| 1564227_at | CDNA: FLJ21299 fis, clone COL02041 | --- | --- |
| 240266_at | Transcribed locus | --- | --- |

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|--------------|--|-----|--------|
| 217606_at | MRNA; cDNA DKFZp686P24158 (from clone DKFZp686P24158) | --- | --- |
| 236915_at | --- | --- | 441054 |
| 244049_at | --- | --- | --- |
| 234288_at | MRNA; cDNA DKFZp434P0626 (from clone DKFZp434P0626) | --- | --- |
| 1556806_at | Clone TEA5 Cri-du-chat critical region mRNA | --- | --- |
| 237764_at | Transcribed locus | --- | --- |
| 236423_at | Transcribed locus | --- | --- |
| 240991_at | Transcribed locus | --- | --- |
| 1557852_at | CDNA FLJ31245 fis, clone KIDNE2005062 | --- | --- |
| 239315_at | --- | --- | 285966 |
| 229242_at | Transcribed locus | --- | --- |
| 233506_at | Full length insert cDNA clone ZB81B12 | --- | --- |
| 225880_at | CDNA FLJ11174 fis, clone PLACE1007367 | --- | --- |
| 232835_at | Transcribed locus | --- | --- |
| 37590_g_at | MRNA full length insert cDNA clone EUROIMAGE 375854 /// MRNA full length ir | --- | --- |
| 230856_at | Transcribed locus | --- | --- |
| 227854_at | Transcribed locus, strongly similar to XP_001115119.1 similar to Fanconi anemi | --- | --- |
| 244548_at | Full length insert cDNA clone YP77A07 | --- | --- |
| 239130_at | --- | --- | --- |
| 216683_at | MRNA; cDNA DKFZp761P1114 (from clone DKFZp761P1114) | --- | --- |
| 235901_at | Transcribed locus | --- | --- |
| 242281_at | --- | --- | 2752 |
| 237239_at | Transcribed locus | --- | --- |
| 217664_at | Transcribed locus | --- | --- |
| 1569911_at | Homo sapiens, clone IMAGE:3884408, mRNA | --- | --- |
| 235523_at | Transcribed locus | --- | --- |
| 1557727_at | --- | --- | 400960 |
| 228828_at | Homo sapiens, clone IMAGE:5215917, mRNA | --- | --- |
| 243469_at | Transcribed locus | --- | --- |
| 238042_at | Transcribed locus | --- | --- |
| 230076_at | --- | --- | 83394 |
| 241590_at | --- | --- | --- |
| 234569_at | MRNA; cDNA DKFZp434F0472 (from clone DKFZp434F0472) | --- | --- |
| 233705_at | CDNA: FLJ21454 fis, clone COL04629 | --- | --- |
| 225553_at | CDNA FLJ12874 fis, clone NT2RP2003769 | --- | --- |
| 1556865_at | Clone IMAGE:121600 mRNA sequence | --- | --- |
| 1569681_at | CDNA clone IMAGE:5209417 | --- | --- |
| 1568408_x_at | --- | --- | --- |
| 242786_at | Full-length cDNA clone CS0DK010YC18 of HeLa cells Cot 25-normalized of Homc | --- | --- |
| 1557505_a_at | Full length insert cDNA YQ11E04 | --- | --- |
| 243482_at | Transcribed locus | --- | --- |
| 244349_at | Transcribed locus | --- | --- |
| 244781_x_at | Transcribed locus | --- | --- |
| 228105_at | Transcribed locus | --- | --- |
| 228244_at | CDNA clone IMAGE:5736961 | --- | 388552 |
| 240949_x_at | Transcribed locus | --- | --- |
| 1557117_at | CDNA clone IMAGE:4812643 | --- | --- |
| 230683_at | CDNA: FLJ20892 fis, clone ADKA03430 | --- | 140731 |
| 234838_at | Pregnancy-induced hypertension syndrome-related protein (PIH1) | --- | --- |
| 240621_at | --- | --- | --- |
| 235448_at | CDNA FLJ36477 fis, clone THYMU2017158 | --- | --- |
| 239923_at | Transcribed locus | --- | --- |
| 217625_x_at | Homo sapiens, clone IMAGE:3851018, mRNA | --- | --- |
| 242137_at | CDNA FLJ36544 fis, clone TRACH2006378 | --- | --- |
| 235288_at | Transcribed locus | --- | --- |
| 1558695_at | Full length insert cDNA clone YR58H12 | --- | --- |
| 240608_at | --- | --- | --- |
| 239276_at | Transcribed locus | --- | --- |
| 223478_at | --- | --- | 26521 |
| 238289_at | --- | --- | --- |
| 224109_at | --- | --- | --- |
| 1563386_at | MRNA full length insert cDNA clone EUROIMAGE 1204612 | --- | --- |
| 1566777_at | CDNA clone IMAGE:5294798 | --- | --- |

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|--------------|---|-----|-----------|
| 1556105_at | CDNA FLJ41020 fis, clone UTERU2019163 | --- | --- |
| 237943_at | --- | --- | 100129701 |
| 243729_at | CDNA FLJ37931 fis, clone CTONG2004397 | --- | --- |
| 1560297_at | Homo sapiens, clone IMAGE:4043205, mRNA | --- | --- |
| 233266_at | CDNA FLJ13844 fis, clone THYRO1000805 | --- | --- |
| 1566762_at | CDNA clone IMAGE:5277680 | --- | --- |
| 1565836_at | CDNA FLJ39181 fis, clone OCBBF2004235 | --- | --- |
| 242638_at | CDNA FLJ27401 fis, clone WMC03071 | --- | --- |
| 230346_x_at | Transcribed locus, strongly similar to XP_520119.1 similar to CDC28 protein kin | --- | --- |
| 1569444_at | CDNA clone IMAGE:4294904 | --- | --- |
| 239825_at | Transcribed locus | --- | --- |
| 1565192_at | CDNA clone IMAGE:3829636 | --- | --- |
| 233233_at | Mesenchymal stem cell protein DSC96 | --- | --- |
| 240712_s_at | Transcribed locus | --- | --- |
| 233707_at | CDNA FLJ14174 fis, clone NT2RP2002843 | --- | --- |
| 236698_at | Full-length cDNA clone CS0DF025YA01 of Fetal brain of Homo sapiens (human) | --- | --- |
| 1562665_at | CDNA FLJ25595 fis, clone JTH13269 | --- | --- |
| 243041_s_at | Transcribed locus | --- | 27303 |
| 243745_at | Transcribed locus | --- | --- |
| 243018_at | Transcribed locus, moderately similar to XP_945958.1 hypothetical protein XP_ | --- | --- |
| 241831_at | Transcribed locus | --- | --- |
| 235658_at | Transcribed locus | --- | --- |
| 1566097_at | MRNA; cDNA DKFZp761K02121 (from clone DKFZp761K02121) | --- | --- |
| 215477_at | MRNA sequence, IMAGE clone 446411 | --- | --- |
| 1563884_at | CDNA FLJ23675 fis, clone HEP08462 | --- | --- |
| 1557814_a_at | Full length insert cDNA clone YB34C04 | --- | --- |
| 230209_at | CDNA FLJ36477 fis, clone THYMU2017158 | --- | --- |
| 235104_at | --- | --- | 64167 |
| 237149_at | --- | --- | --- |
| 1561432_at | CDNA clone IMAGE:4830514 | --- | --- |
| 228081_at | CDNA FLJ35319 fis, clone PROST2011577 | --- | 901 |
| 1569263_at | Pp10472 | --- | --- |
| 221937_at | CDNA FLJ34482 fis, clone HLUNG2004067 | --- | --- |
| 237886_at | Transcribed locus | --- | --- |
| 235133_at | Homo sapiens, clone IMAGE:5787583, mRNA | --- | --- |
| 241048_at | Transcribed locus | --- | --- |
| 231483_at | Transcribed locus, moderately similar to XP_001149380.1 hypothetical protein | --- | --- |
| 1566868_at | Homo sapiens, clone IMAGE:4158072, mRNA | --- | --- |
| 233273_at | CDNA FLJ12010 fis, clone HEMBB1001635 | --- | --- |
| 223848_at | Clone FLC0664 PRO2866 | --- | 100129198 |
| 237608_at | CDNA clone IMAGE:4830853 | --- | --- |
| 227264_at | CDNA FLJ46539 fis, clone THYMU3037836 | --- | --- |
| 238521_at | Transcribed locus | --- | --- |
| 1561740_at | MRNA; cDNA DKFZp667A1719 (from clone DKFZp667A1719) | --- | --- |
| 231329_at | Transcribed locus | --- | --- |
| 234670_at | CDNA: FLJ23600 fis, clone LNG15477 | --- | --- |
| 239721_at | --- | --- | --- |
| 243395_at | Transcribed locus | --- | --- |
| 237243_at | Transcribed locus | --- | --- |
| 240468_at | Transcribed locus | --- | --- |
| 233778_at | Uncharacterized gastric protein ZG16P | --- | --- |
| 229833_at | CDNA FLJ90099 fis, clone HEMBA1006016 | --- | --- |
| 1568878_at | Homo sapiens, clone IMAGE:5556045, mRNA | --- | --- |
| 1556416_s_at | Full length insert cDNA clone ZD37D10 | --- | --- |
| 241873_at | Homo sapiens, clone IMAGE:5209126, mRNA | --- | --- |
| 236261_at | CDNA FLJ41254 fis, clone BRAMY2033594 | --- | 114880 |
| 227422_at | --- | --- | --- |
| 1564479_a_at | CDNA FLJ37609 fis, clone BRCOC2011010 | --- | --- |
| 236300_at | CDNA FLJ37884 fis, clone BRSTN2012451 | --- | --- |
| 1559452_a_at | MRNA; cDNA DKFZp547L2215 (from clone DKFZp547L2215) | --- | --- |
| 241657_at | Transcribed locus | --- | --- |
| 241278_at | --- | --- | --- |
| 215811_at | Clone GLSH-3 similar to gliadin mRNA sequence | --- | --- |

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|--------------|---|-----|-----------|
| 228045_at | MRNA; cDNA DKFZp451K063 (from clone DKFZp451K063) | --- | --- |
| 1562821_a_at | M41 mRNA, complete sequence; alternatively spliced | --- | --- |
| 243154_at | Transcribed locus | --- | --- |
| 241780_at | Transcribed locus | --- | --- |
| 236843_at | Transcribed locus | --- | --- |
| 1568858_at | Homo sapiens, clone IMAGE:4157587, mRNA | --- | --- |
| 1558587_at | Homo sapiens, clone IMAGE:5728941, mRNA | --- | --- |
| 1568648_a_at | CDNA clone IMAGE:4426835 | --- | --- |
| 220701_at | --- | --- | --- |
| 224103_at | Clone FLB1825 PRO0419 | --- | 100132661 |
| 236215_at | --- | --- | --- |
| 1566892_at | MRNA; cDNA DKFZp667B1113 (from clone DKFZp667B1113) | --- | --- |
| 242193_at | CDNA clone IMAGE:4797645 | --- | 100130155 |
| 239494_at | Transcribed locus | --- | --- |
| 237479_at | Transcribed locus | --- | --- |
| 1560026_at | CDNA clone IMAGE:5285703 | --- | --- |
| 237454_at | Transcribed locus | --- | --- |
| 1555261_at | MRNA; cDNA DKFZp547A2015 (from clone DKFZp547A2015) | --- | --- |
| 239339_at | Transcribed locus | --- | --- |
| 230744_at | Transcribed locus | --- | --- |
| 1563467_at | MRNA; cDNA DKFZp451G0810 (from clone DKFZp451G0810) | --- | --- |
| 241588_at | --- | --- | --- |
| 239868_at | MRNA; cDNA DKFZp686E08116 (from clone DKFZp686E08116) | --- | --- |
| 235801_at | --- | --- | --- |
| 1559462_at | Homo sapiens, clone IMAGE:6155889, mRNA | --- | --- |
| 217706_at | Transcribed locus | --- | --- |
| 233481_at | MRNA; cDNA DKFZp566O1624 (from clone DKFZp566O1624) | --- | --- |
| 1562860_at | Homo sapiens, clone IMAGE:5744121, mRNA | --- | --- |
| 238552_at | Transcribed locus, strongly similar to XP_001089287.1 serine/threonine kinase | --- | --- |
| 241974_at | Transcribed locus | --- | --- |
| 237821_at | Transcribed locus | --- | --- |
| 235938_at | Transcribed locus | --- | --- |
| 1554971_at | OK/SW-CL.58 | --- | 100131766 |
| 1562473_at | CDNA clone IMAGE:5285657 | --- | --- |
| 235124_at | CDNA FLJ35228 fis, clone PROST2001283 | --- | 645212 |
| 232307_at | CDNA FLJ11492 fis, clone HEMBA1001939 | --- | --- |
| 1566772_at | MRNA; cDNA DKFZp547L1918 (from clone DKFZp547L1918) | --- | --- |
| 1555489_at | --- | --- | --- |
| 239449_at | Transcribed locus | --- | --- |
| 244397_at | --- | --- | --- |
| 1556956_at | CDNA FLJ33365 fis, clone BRACE2005460, moderately similar to Xenopus laevis | --- | 375616 |
| 239033_at | MRNA; cDNA DKFZp666M079 (from clone DKFZp666M079) | --- | --- |
| 243936_x_at | --- | --- | --- |
| 244372_at | Transcribed locus | --- | --- |
| 230241_at | Transcribed locus | --- | --- |
| 233413_at | CDNA FLJ13457 fis, clone PLACE1003343 | --- | --- |
| 232583_at | CDNA FLJ11435 fis, clone HEMBA1001208 | --- | --- |
| 1561213_at | CDNA clone IMAGE:5272066 | --- | --- |
| 234160_at | CDNA: FLJ21671 fis, clone COL09015 | --- | --- |
| 235609_at | Transcribed locus | --- | --- |
| 216704_at | MRNA; cDNA DKFZp761P1114 (from clone DKFZp761P1114) | --- | --- |
| 234839_at | MRNA; cDNA DKFZp564I103 (from clone DKFZp564I103) | --- | --- |
| 236338_at | --- | --- | --- |
| 210893_at | PRO1510 | --- | --- |
| 239806_at | Transcribed locus | --- | --- |
| 229291_at | Full length insert cDNA clone ZD86A03 | --- | --- |
| 231440_at | CDNA clone IMAGE:4824725 | --- | 100131928 |
| 217091_at | --- | --- | --- |
| 238985_at | --- | --- | --- |
| 231127_at | Transcribed locus | --- | --- |
| 1562406_at | CDNA clone IMAGE:5278001 | --- | --- |
| 1561144_at | Full length insert cDNA clone ZD43A10 | --- | --- |
| 230768_at | Transcribed locus | --- | --- |

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|--------------|---|-----|-------|
| 1561654_at | Full length insert cDNA clone YT87E05 | --- | --- |
| 233659_at | Clone IMAGE:241742, mRNA sequence | --- | --- |
| 229756_at | Transcribed locus, strongly similar to XP_515285.1 similar to inhibitor of DNA bi | --- | --- |
| 1561962_at | CDNA clone IMAGE:4794289 | --- | --- |
| 1558497_a_at | Homo sapiens, clone IMAGE:5167229, mRNA | --- | --- |
| 1564763_at | (clone Z145) retinal mRNA, repeat region | --- | --- |
| 222315_at | Transcribed locus | --- | --- |
| 240093_x_at | Transcribed locus | --- | --- |
| 240415_at | Transcribed locus | --- | --- |
| 1560926_at | Full length insert cDNA clone YR43G06 | --- | --- |
| 237420_at | --- | --- | 57489 |
| 240358_at | Transcribed locus | --- | --- |
| 242485_at | Transcribed locus | --- | --- |
| 235659_at | Transcribed locus | --- | --- |
| 1559213_at | Homo sapiens, clone IMAGE:5394246, mRNA | --- | --- |
| 1561239_at | CDNA clone IMAGE:4825737 | --- | --- |
| 226107_at | CDNA FLJ13495 fis, clone PLACE1004425 /// Full-length cDNA clone CSODI084Yf | --- | --- |
| 214101_s_at | Transcribed locus | --- | --- |
| 1559992_a_at | Homo sapiens, clone IMAGE:5733926, mRNA | --- | --- |
| 1561260_at | CDNA clone IMAGE:5295565 | --- | --- |
| 236394_at | --- | --- | --- |
| 244153_at | --- | --- | 7756 |
| 238719_at | Transcribed locus | --- | --- |
| 236035_at | Transcribed locus | --- | --- |
| 240178_at | --- | --- | --- |
| 1559696_at | Full length insert cDNA clone YW24B11 | --- | --- |
| 233090_at | CDNA FLJ11419 fis, clone HEMBA1000985 | --- | --- |
| 243694_at | --- | --- | --- |
| 244306_at | Transcribed locus | --- | --- |
| 216575_at | --- | --- | --- |
| 232769_at | CDNA FLJ10258 fis, clone HEMBB1000908 | --- | --- |
| 1567076_at | --- | --- | --- |
| 232468_at | CDNA FLJ13708 fis, clone PLACE2000359 | --- | --- |
| 235570_at | CDNA FLJ36544 fis, clone TRACH2006378 | --- | --- |
| 1559530_at | CDNA clone IMAGE:5736961 | --- | --- |
| 228567_at | CDNA FLJ38388 fis, clone FEBRA2004485 | --- | --- |
| 239476_at | CDNA FLJ36491 fis, clone THYMU2018197 | --- | --- |
| 1556486_at | CDNA clone IMAGE:4825811 | --- | --- |
| 236384_at | CDNA FLJ32162 fis, clone PLACE6000325 | --- | --- |
| 1558494_at | Homo sapiens, clone IMAGE:5171606, mRNA | --- | --- |
| 220877_at | --- | --- | --- |
| 244705_at | CDNA FLJ33356 fis, clone BRACE2005160 | --- | --- |
| 1556392_a_at | CDNA clone IMAGE:5285271 | --- | --- |
| 237444_at | Transcribed locus | --- | --- |
| 225923_at | CDNA FLJ41394 fis, clone BRCAN2026197 | --- | --- |
| 241883_x_at | --- | --- | --- |
| 239758_at | --- | --- | --- |
| 233003_at | CDNA FLJ11942 fis, clone HEMBB1000652 | --- | --- |
| 239606_at | CDNA FLJ25345 fis, clone TST01118 | --- | --- |
| 242058_at | --- | --- | --- |
| 233035_at | CDNA FLJ12023 fis, clone HEMBB1001785 | --- | --- |
| 241515_at | --- | --- | --- |
| 1568844_at | CDNA clone IMAGE:4826156 | --- | --- |
| 1566805_at | CDNA: FLJ20879 fis, clone ADKA03124 | --- | --- |
| 1563190_at | CDNA clone IMAGE:4828264 | --- | --- |
| 1569944_at | CDNA clone IMAGE:5311876 | --- | --- |
| 236861_at | --- | --- | --- |
| 237122_at | Transcribed locus | --- | --- |
| 1566342_at | Transcribed locus | --- | --- |
| 233731_at | MRNA; cDNA DKFZp564D123 (from clone DKFZp564D123) | --- | --- |
| 233799_at | CDNA FLJ11418 fis, clone HEMBA1000972 | --- | --- |
| 1561418_at | Homo sapiens, clone IMAGE:5403381, mRNA | --- | --- |
| 1562949_at | CDNA clone IMAGE:5273211 | --- | --- |

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|--------------|---|-----|-----------|
| 238999_at | Transcribed locus | --- | --- |
| 243367_at | Transcribed locus | --- | --- |
| 237904_at | Transcribed locus | --- | --- |
| 235651_at | --- | --- | --- |
| 226085_at | CDNA clone IMAGE:4842353 | --- | 23468 |
| 1556306_at | Chromosome 7 unknown mRNA | --- | --- |
| 211973_at | AF034176 Human mRNA (Tripodis and Ragoussis) Homo sapiens cDNA clone ntc | --- | --- |
| 1556321_a_at | MRNA full length insert cDNA clone EUROIMAGE 283668 | --- | --- |
| 232797_at | CDNA FLJ11397 fis, clone HEMBA1000622 | --- | --- |
| 1564965_at | MRNA; cDNA DKFZp666M1310 (from clone DKFZp666M1310) | --- | --- |
| 235513_at | Transcribed locus | --- | --- |
| 237262_at | Full length insert cDNA clone ZE05E03 | --- | --- |
| 240845_at | Transcribed locus | --- | --- |
| 230177_at | Clone HLS_IMAGE_204740 mRNA sequence | --- | --- |
| 235772_at | Transcribed locus | --- | --- |
| 232555_at | CDNA FLJ11431 fis, clone HEMBA1001094 | --- | --- |
| 233130_at | CDNA FLJ12202 fis, clone MAMMA1000908 | --- | --- |
| 1556817_a_at | Full length insert cDNA clone ZB40C06 | --- | --- |
| 239984_at | --- | --- | --- |
| 240673_at | Transcribed locus | --- | --- |
| 1556332_at | CDNA FLJ38412 fis, clone FEBRA2009385 | --- | --- |
| 1557222_at | MRNA; cDNA DKFZp686I23117 (from clone DKFZp686I23117) | --- | --- |
| 244425_at | --- | --- | --- |
| 236090_at | Transcribed locus | --- | --- |
| 236153_at | Transcribed locus | --- | --- |
| 230444_at | Transcribed locus | --- | --- |
| 239496_at | Transcribed locus | --- | --- |
| 237064_x_at | Transcribed locus | --- | --- |
| 233908_x_at | CDNA FLJ12050 fis, clone HEMBB1002002 | --- | --- |
| 225716_at | Full-length cDNA clone CS0DK008YI09 of HeLa cells Cot 25-normalized of Homo | --- | --- |
| 231627_at | CDNA FLJ25810 fis, clone TST07303 | --- | --- |
| 1570099_at | Homo sapiens, clone IMAGE:5202535, mRNA | --- | --- |
| 233300_at | CDNA FLJ11548 fis, clone HEMBA1002944 | --- | --- |
| 242898_at | --- | --- | 5610 |
| 237803_x_at | Transcribed locus | --- | --- |
| 212993_at | MRNA; cDNA DKFZp667B1718 (from clone DKFZp667B1718) | --- | 138151 |
| 232834_at | CDNA FLJ11994 fis, clone HEMBB1001436 | --- | --- |
| 240594_at | Transcribed locus | --- | --- |
| 242610_x_at | Transcribed locus | --- | --- |
| 238075_at | Transcribed locus | --- | --- |
| 215397_x_at | CDNA FLJ12379 fis, clone MAMMA1002554 | --- | --- |
| 228662_at | CDNA FLJ37019 fis, clone BRACE2010669 | --- | 30837 |
| 215439_x_at | CDNA FLJ11924 fis, clone HEMBB1000343 | --- | --- |
| 227929_at | CDNA clone IMAGE:5277945 | --- | --- |
| 213826_s_at | --- | --- | 100133109 |
| 1564547_x_at | Homo sapiens, clone IMAGE:3138608, mRNA | --- | --- |
| 239811_at | --- | --- | --- |
| 235767_x_at | Full length insert cDNA clone ZD82B02 | --- | --- |
| 232338_at | CDNA FLJ11553 fis, clone HEMBA1003034 | --- | --- |
| 215450_at | --- | --- | --- |
| 234827_at | MRNA; cDNA DKFZp564M0463 (from clone DKFZp564M0463) | --- | --- |
| 231087_at | Transcribed locus | --- | --- |
| 1565811_at | CDNA clone IMAGE:5278245 | --- | --- |
| 233393_at | CDNA FLJ12020 fis, clone HEMBB1001753 | --- | --- |
| 243586_at | Transcribed locus | --- | --- |
| 237438_at | Transcribed locus | --- | --- |
| 1570566_at | Transcribed locus | --- | --- |
| 1561018_at | Full length insert cDNA clone ZD44H09 | --- | --- |
| 222145_at | CDNA: FLJ23572 fis, clone LNG12403 | --- | --- |
| 232527_at | CDNA FLJ13309 fis, clone OVARC1001442 | --- | --- |
| 226183_at | MRNA; cDNA DKFZp686L15210 (from clone DKFZp686L15210) | --- | --- |
| 233623_at | Clone FLB3107 | --- | --- |
| 214807_at | MRNA; cDNA DKFZp564O0862 (from clone DKFZp564O0862) | --- | --- |

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|--------------|---|-----|-----------|
| 1558842_at | --- | --- | --- |
| 226572_at | CDNA FLJ37019 fis, clone BRACE2010669 | --- | 30837 |
| 241595_at | --- | --- | --- |
| 242462_at | CDNA clone IMAGE:5301514 | --- | 100131741 |
| 241991_at | Transcribed locus | --- | --- |
| 227754_at | CDNA FLJ10417 fis, clone NT2RP1000112 | --- | --- |
| 207596_at | --- | --- | 100130703 |
| 230175_s_at | --- | --- | --- |
| 238787_at | CDNA FLJ36663 fis, clone UTERU2002826 | --- | --- |
| 235841_at | Full-length cDNA clone CS0DM006YA12 of Fetal liver of Homo sapiens (human) | --- | --- |
| 242713_at | Transcribed locus | --- | --- |
| 244061_at | --- | --- | --- |
| 1570639_at | Homo sapiens, clone IMAGE:4499612, mRNA | --- | --- |
| 235890_at | Transcribed locus | --- | --- |
| 232726_at | CDNA: FLJ21303 fis, clone COL02107 | --- | --- |
| 241722_x_at | Transcribed locus | --- | --- |
| 216621_at | MRNA; cDNA DKFZp566F1224 (from clone DKFZp566F1224) | --- | --- |
| 217536_x_at | Transcribed locus | --- | --- |
| 1558237_x_at | --- | --- | --- |
| 1561058_at | CDNA clone IMAGE:5278570 | --- | --- |
| 243606_at | Transcribed locus | --- | --- |
| 236196_at | CDNA FLJ42548 fis, clone BRACE3004996 | --- | --- |
| 232535_at | MRNA; cDNA DKFZp434L201 (from clone DKFZp434L201) | --- | --- |
| 215525_at | --- | --- | --- |
| 214202_at | MRNA from chromosome 5q21-22, clone:357Ex | --- | --- |
| 229021_at | CDNA: FLJ23331 fis, clone HEP12664 | --- | --- |
| 233037_at | Clone FLB2932 mRNA sequence | --- | --- |
| 244728_at | CDNA clone IMAGE:7501601 | --- | --- |
| 241846_at | CDNA FLJ46556 fis, clone THYMU3039807 | --- | --- |
| 227579_at | --- | --- | --- |
| 227432_s_at | Transcribed locus, weakly similar to XP_512323.2 insulin receptor, partial [Pan 1 | --- | --- |
| 243904_at | CDNA clone IMAGE:5287121 | --- | --- |
| 241417_at | Transcribed locus | --- | --- |
| 236980_at | ELISC-1 | --- | --- |
| 222330_at | Transcribed locus | --- | --- |
| 238050_at | Transcribed locus | --- | --- |
| 242108_at | MRNA; cDNA DKFZp686F1782 (from clone DKFZp686F1782) | --- | --- |
| 235848_x_at | Transcribed locus | --- | --- |
| 230921_s_at | Transcribed locus | --- | --- |
| 1566825_at | CDNA FLJ31010 fis, clone HLUNG2000174 | --- | --- |
| 242364_x_at | CDNA clone IMAGE:5286005 | --- | 100131096 |
| 242057_at | Transcribed locus | --- | --- |
| 237952_at | --- | --- | --- |
| 230091_at | Transcribed locus | --- | --- |
| 1556658_a_at | CDNA FLJ36459 fis, clone THYMU2014762 | --- | --- |
| 227252_at | Transcribed locus | --- | --- |
| 205955_at | --- | --- | --- |
| 235227_at | CDNA clone IMAGE:5287121 | --- | --- |
| 207731_at | --- | --- | --- |
| 233519_at | Clone 23637 mRNA sequence | --- | --- |
| 237798_at | --- | --- | --- |
| 1562935_at | CDNA clone IMAGE:5285945 | --- | --- |
| 226795_at | Transcribed locus | --- | --- |
| 229705_at | Transcribed locus | --- | --- |
| 240338_at | Transcribed locus | --- | --- |
| 217643_x_at | --- | --- | --- |
| 1562727_at | Homo sapiens, clone IMAGE:4724389 | --- | --- |
| 213637_at | Transcribed locus | --- | --- |
| 1560131_at | CDNA clone IMAGE:5261865 | --- | --- |
| 242521_at | Homo sapiens, Similar to neuronal thread protein, clone IMAGE:4106635, mRNA/ | --- | --- |
| 230805_at | Transcribed locus, strongly similar to XP_001101257.1 similar to sterol regulato | --- | --- |
| 215597_x_at | CDNA FLJ11353 fis, clone HEMBA1000042 | --- | --- |
| 1569540_at | --- | --- | --- |

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|--------------|--|-----|--------|
| 1561870_at | CDNA clone IMAGE:5287035 | --- | --- |
| 239759_at | Transcribed locus | --- | --- |
| 1562324_a_at | MRNA; cDNA DKFZp313M0331 (from clone DKFZp313M0331) | --- | --- |
| 232297_at | CDNA FLJ11313 fis, clone PLACE1010106, highly similar to Homo sapiens mRNA, | --- | --- |
| 1566144_at | CDNA FLJ41018 fis, clone UTERU2018881 | --- | --- |
| 233081_at | CDNA FLJ12305 fis, clone MAMMA1001890 | --- | --- |
| 244242_at | Transcribed locus | --- | --- |
| 1555374_at | --- | --- | --- |
| 236821_at | Transcribed locus | --- | --- |
| 1554597_at | MRNA; cDNA DKFZp547K189 (from clone DKFZp547K189) | --- | --- |
| 216756_at | CDNA: FLJ21342 fis, clone COL02673 | --- | --- |
| 1556818_at | Full length insert cDNA clone YB35F05 | --- | --- |
| 217586_x_at | --- | --- | --- |
| 243431_at | Transcribed locus | --- | --- |
| 239571_at | Transcribed locus | --- | --- |
| 236346_at | Transcribed locus | --- | --- |
| 1559410_at | Transcribed locus | --- | --- |
| 1559132_at | --- | --- | 283232 |
| 235423_at | Transcribed locus, moderately similar to XP_517655.1 similar to KIAA0825 prot | --- | --- |
| 1556242_a_at | Full-length cDNA clone CSODI008YN13 of Placenta Cot 25-normalized of Homo s | --- | --- |
| 216069_at | CDNA FLJ31388 fis, clone NT2NE1000023 | --- | --- |
| 243748_at | --- | --- | --- |
| 1569052_at | CDNA clone IMAGE:3840062 | --- | --- |
| 236975_at | Transcribed locus | --- | --- |
| 243388_at | Transcribed locus, strongly similar to XP_519898.1 similar to DKFZP564O0463 p | --- | --- |
| 1557667_at | CDNA FLJ36588 fis, clone TRACH2013991 | --- | --- |
| 1555904_at | Homo sapiens, clone IMAGE:4779853, mRNA | --- | --- |
| 232958_at | CDNA FLJ13595 fis, clone PLACE1009595 | --- | --- |
| 242818_x_at | Transcribed locus | --- | --- |
| 238666_at | Transcribed locus | --- | --- |
| 240319_at | Transcribed locus, strongly similar to XP_001105818.1 caspase recruitment don | --- | --- |
| 214949_at | CDNA FLJ31919 fis, clone NT2RP7004964 | --- | --- |
| 237588_at | --- | --- | --- |
| 243147_x_at | Transcribed locus | --- | --- |
| 229606_at | Transcribed locus, strongly similar to XP_517366.1 similar to Serine/threonine f | --- | --- |
| 221963_x_at | Transcribed locus | --- | --- |
| 244663_at | Transcribed locus | --- | --- |
| 239050_s_at | CDNA FLJ13202 fis, clone NT2RP3004503 | --- | --- |
| 220905_at | --- | --- | --- |
| 212812_at | CDNA: FLJ22642 fis, clone HSI06970 | --- | --- |
| 1561909_at | --- | --- | --- |
| 241688_at | Transcribed locus | --- | --- |
| 217679_x_at | --- | --- | --- |
| 241093_at | Transcribed locus | --- | --- |
| 236540_at | Transcribed locus | --- | --- |
| 244592_at | --- | --- | --- |
| 239364_at | --- | --- | --- |
| 236703_at | Transcribed locus | --- | --- |
| 243186_at | --- | --- | --- |
| 1569604_at | Homo sapiens, clone IMAGE:4401848, mRNA | --- | --- |
| 239179_at | --- | --- | --- |
| 242113_at | Transcribed locus | --- | --- |
| 233007_at | CDNA FLJ12100 fis, clone HEMBB1002677 | --- | --- |
| 244259_s_at | CDNA FLJ11179 fis, clone PLACE1007450 | --- | --- |
| 239085_at | Transcribed locus | --- | --- |
| 229798_s_at | --- | --- | --- |
| 232876_at | CDNA: FLJ21881 fis, clone HEP02746 | --- | --- |
| 1568915_at | CDNA clone IMAGE:4822684 | --- | --- |
| 234958_at | Clone HQ0352 PRO0352 | --- | --- |
| 217540_at | Transcribed locus | --- | --- |
| 226191_at | MRNA; cDNA DKFZp686L15210 (from clone DKFZp686L15210) | --- | --- |
| 239311_at | Transcribed locus | --- | --- |
| 243030_at | Transcribed locus | --- | --- |

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|--------------|--|-----|-----------|
| 228861_at | CDNA FLJ26683 fis, clone MPG05945 | --- | --- |
| 1559522_at | CDNA FLJ40173 fis, clone TESTI2016922 | --- | --- |
| 229970_at | --- | --- | 84078 |
| 1562836_at | CDNA FLJ11653 fis, clone HEMBA1004538 | --- | --- |
| 239358_at | Transcribed locus | --- | --- |
| 1558430_at | CDNA FLJ36648 fis, clone UTERU1000138 | --- | --- |
| 226910_at | CDNA FLJ30661 fis, clone DFNES2000526 | --- | --- |
| 242117_at | Transcribed locus | --- | --- |
| 1562009_a_at | CDNA FLJ40764 fis, clone TRACH2002954 | --- | --- |
| 235660_at | MRNA; cDNA DKFZp667E0114 (from clone DKFZp667E0114) | --- | --- |
| 229968_at | Transcribed locus | --- | --- |
| 233068_at | CDNA FLJ13202 fis, clone NT2RP3004503 | --- | --- |
| 231968_at | CDNA: FLJ21763 fis, clone COLF6967 | --- | --- |
| 1554599_x_at | MRNA; cDNA DKFZp547K189 (from clone DKFZp547K189) | --- | --- |
| 239049_at | CDNA FLJ13202 fis, clone NT2RP3004503 | --- | --- |
| 226821_at | Full-length cDNA clone CS0DF029YD16 of Fetal brain of Homo sapiens (human) | --- | --- |
| 216499_at | MRNA; cDNA DKFZp434K0610 (from clone DKFZp434K0610) | --- | --- |
| 240498_at | --- | --- | --- |
| 1569974_x_at | Homo sapiens, clone IMAGE:4849828, mRNA | --- | 641977 |
| 231259_s_at | Transcribed locus | --- | --- |
| 234032_at | PRO1550 | --- | --- |
| 229987_at | Transcribed locus | --- | --- |
| 236002_at | CDNA FLJ27180 fis, clone SYN02180 | --- | --- |
| 233105_at | CDNA: FLJ22627 fis, clone HSI06152 | --- | --- |
| 239284_at | --- | --- | --- |
| 242167_at | --- | --- | --- |
| 235846_at | CDNA FLJ23692 fis, clone HEP10227 | --- | --- |
| 241940_at | Transcribed locus | --- | --- |
| 235415_at | --- | --- | 23248 |
| 1558938_at | Homo sapiens, clone IMAGE:5222953, mRNA | --- | --- |
| 241091_at | Transcribed locus | --- | --- |
| 1568748_at | Homo sapiens, clone IMAGE:5193340, mRNA | --- | --- |
| 208246_x_at | CDNA FLJ20006 fis, clone ADKA02694 | --- | --- |
| 228579_at | CDNA FLJ37386 fis, clone BRAMY2026538 | --- | --- |
| 242144_at | --- | --- | --- |
| 1569409_x_at | CDNA clone IMAGE:4798202 | --- | --- |
| 233228_at | CDNA: FLJ21229 fis, clone COL00740 | --- | --- |
| 228001_at | CDNA FLJ26146 fis, clone ADG00290 | --- | 757 |
| 232781_at | CDNA: FLJ22769 fis, clone KAIA1316 | --- | --- |
| 227576_at | CDNA FLJ42015 fis, clone SPLEN2032813 | --- | --- |
| 233824_at | CDNA: FLJ21428 fis, clone COL04203 | --- | --- |
| 1569181_x_at | Homo sapiens, clone IMAGE:4250282, mRNA | --- | --- |
| 243663_at | Transcribed locus | --- | --- |
| 238172_at | Transcribed locus | --- | --- |
| 1569180_at | Homo sapiens, clone IMAGE:4250282, mRNA | --- | --- |
| 235803_at | Transcribed locus | --- | --- |
| 1562314_at | MRNA; cDNA DKFZp761C1622 (from clone DKFZp761C1622) | --- | --- |
| 229114_at | CDNA clone IMAGE:4801326 | --- | 2549 |
| 242885_at | --- | --- | --- |
| 1565975_at | CDNA FLJ23646 fis, clone COL03258 | --- | --- |
| 1555311_at | --- | --- | --- |
| 228944_at | Transcribed locus | --- | --- |
| 235788_at | Transcribed locus | --- | --- |
| 239469_at | Transcribed locus | --- | --- |
| 1555853_at | --- | --- | --- |
| 229575_at | Transcribed locus | --- | --- |
| 226527_at | --- | --- | 23248 |
| 242449_at | Transcribed locus | --- | --- |
| 236237_at | Transcribed locus | --- | --- |
| 1556043_a_at | CDNA clone IMAGE:5272988 | --- | 100131039 |
| 231272_at | Transcribed locus | --- | --- |
| 238714_at | Transcribed locus | --- | --- |
| 228983_at | Transcribed locus | --- | --- |

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|--------------|--|-----|------------|
| 241838_at | Transcribed locus | --- | --- |
| 224148_at | --- | --- | 2533 |
| 1555845_at | CDNA FLJ39218 fis, clone OCBBF2006660 | --- | --- |
| 228932_at | Transcribed locus | --- | --- |
| 232710_at | CDNA FLJ11415 fis, clone HEMBA1000942 | --- | --- |
| 1556221_a_at | CDNA FLJ35137 fis, clone PLACE6009419 | --- | --- |
| 210679_x_at | --- | --- | --- |
| 217579_x_at | Transcribed locus | --- | --- |
| 241268_x_at | --- | --- | --- |
| 240154_at | Transcribed locus | --- | --- |
| 238261_at | Transcribed locus | --- | --- |
| 228254_at | Transcribed locus | --- | 10254 |
| 222294_s_at | CDNA clone IMAGE:5745639 | --- | --- |
| 228753_at | Transcribed locus, moderately similar to XP_001148836.1 hypothetical protein | --- | 100128737 |
| 230292_at | CDNA FLJ25310 fis, clone SYN00991 | --- | 100131993 |
| 234084_x_at | CDNA FLJ12075 fis, clone HEMBB1002425 | --- | --- |
| 228974_at | CDNA FLJ42233 fis, clone THYMU3000420 | --- | --- |
| 235437_at | Transcribed locus | --- | --- |
| 242676_at | Transcribed locus | --- | --- |
| 230632_at | Full-length cDNA clone CS0DI051YA02 of Placenta Cot 25-normalized of Homo s | --- | --- |
| 242073_at | Transcribed locus | --- | --- |
| 237255_at | --- | --- | --- |
| 210183_x_at | --- | --- | 5411 |
| 1559467_at | CDNA FLJ36734 fis, clone UTERU2012890 | --- | --- |
| 240481_at | Transcribed locus | --- | --- |
| 217591_at | Transcribed locus | --- | --- |
| 235662_at | Transcribed locus | --- | --- |
| 240574_at | CDNA clone IMAGE:5262677 | --- | --- |
| 228910_at | Transcribed locus | --- | --- |
| 238796_at | Transcribed locus, weakly similar to XP_001098270.1 similar to YTH domain-co | --- | --- |
| 224601_at | CDNA clone IMAGE:3831740 | --- | --- |
| 1558959_at | CDNA FLJ37917 fis, clone CTONG1000137 | --- | --- |
| 239486_at | Transcribed locus | --- | --- |
| 243754_at | Transcribed locus | --- | --- |
| 1559391_s_at | Partial mRNA; ID EE2-8E | --- | --- |
| 230944_at | Transcribed locus | --- | --- |
| 231078_at | Transcribed locus, strongly similar to XP_001106001.1 similar to mitochondrial | --- | --- |
| 236435_at | --- | --- | --- |
| 239152_at | Transcribed locus | --- | --- |
| 236571_at | Transcribed locus | --- | --- |
| 217209_at | --- | --- | 1084 |
| 1569955_at | Homo sapiens, clone IMAGE:4097490, mRNA | --- | --- |
| 240064_at | Transcribed locus, strongly similar to XP_529518.1 hypothetical protein XP_529 | --- | --- |
| 226186_at | CDNA clone IMAGE:5301189 | --- | --- |
| 229066_at | Transcribed locus | --- | --- |
| 221861_at | MRNA; cDNA DKFZp762M127 (from clone DKFZp762M127) | --- | --- |
| 240630_at | Transcribed locus | --- | --- |
| 230918_at | Transcribed locus | --- | --- |
| 234047_at | CDNA FLJ14065 fis, clone HEMBB1000917 | --- | --- |
| 233331_at | Unknown mRNA sequence | --- | --- |
| 1555993_at | Full length insert cDNA clone YY51E04 | --- | 776 |
| 1557521_a_at | CDNA clone IMAGE:5311184 | --- | --- |
| 1570192_at | Homo sapiens, clone IMAGE:4480721, mRNA | --- | --- |
| 1555187_at | --- | --- | --- |
| 236484_at | Transcribed locus | --- | --- |
| 1562244_at | MRNA; cDNA DKFZp686H1629 (from clone DKFZp686H1629) | --- | 147660 |
| 242959_at | --- | --- | --- |
| 233059_at | CDNA: FLJ22731 fis, clone HSI15841 | --- | --- |
| 240496_at | Transcribed locus | --- | --- |
| 222280_at | Homo sapiens, clone IMAGE:3830652, mRNA | --- | --- |
| 227277_at | CDNA FLJ41088 fis, clone ASTRO2002459 | --- | --- |
| 223791_at | CDNA clone IMAGE:6018774 | --- | 100132948, |
| 228156_at | Homo sapiens, clone IMAGE:4346533, mRNA | --- | --- |

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|--------------|--|-----|-----------|
| 242275_at | Transcribed locus | --- | --- |
| 233450_at | CDNA FLJ33986 fis, clone DFNES2005779 | --- | --- |
| 217653_x_at | --- | --- | --- |
| 229558_at | Transcribed locus | --- | --- |
| 239070_at | Full-length cDNA clone CS0CAP004YK07 of Thymus of Homo sapiens (human) | --- | --- |
| 240253_at | Transcribed locus | --- | --- |
| 1560646_at | --- | --- | 121952 |
| 228175_at | CDNA FLJ31660 fis, clone NT2RI2004410 | --- | --- |
| 1558819_at | Homo sapiens, clone IMAGE:5245578, mRNA | --- | 100131819 |
| 232670_at | CDNA FLJ11735 fis, clone HEMBA1005447 | --- | --- |
| 1560865_a_at | Full length insert cDNA clone YO02C07 | --- | --- |
| 237372_at | Transcribed locus | --- | --- |
| 1557295_a_at | CDNA FLJ25198 fis, clone REC04733 | --- | --- |
| 1566658_at | CDNA clone IMAGE:4825100 | --- | --- |
| 244535_at | Transcribed locus | --- | --- |
| 220787_at | --- | --- | --- |
| 231013_at | --- | --- | --- |
| 1559515_at | CDNA FLJ33748 fis, clone BRCAN2000148 | --- | --- |
| 241175_at | Transcribed locus | --- | --- |
| 243399_at | Transcribed locus, strongly similar to XP_515434.1 hypothetical protein XP_515 | --- | --- |
| 231098_at | Transcribed locus | --- | --- |
| 1559426_at | CDNA FLJ39210 fis, clone OCBBF2006154 | --- | --- |
| 241634_at | Transcribed locus, strongly similar to XP_530590.1 hypothetical protein XP_530 | --- | 100132345 |
| 202969_at | MRNA; cDNA DKFZp667B0924 (from clone DKFZp667B0924) | --- | 8445 |
| 215594_at | PTR2 mRNA for repetitive sequence | --- | --- |
| 215456_at | Clone 24734 mRNA sequence | --- | --- |
| 244845_at | Transcribed locus | --- | --- |
| 215571_at | CDNA FLJ11433 fis, clone HEMBA1001121 | --- | --- |
| 237580_at | Transcribed locus, weakly similar to NP_997317.1 protein LOC400002 [Homo sa | --- | --- |
| 234522_at | CDNA: FLJ21335 fis, clone COL02546 | --- | --- |
| 1560141_at | CDNA FLJ25312 fis, clone SYN01070 | --- | 100133039 |
| 219731_at | --- | --- | --- |
| 239063_at | CDNA FLJ39803 fis, clone SPLEN2007794 | --- | --- |
| 234502_at | MRNA; cDNA DKFZp564D043 (from clone DKFZp564D043) | --- | --- |
| 1561683_at | CDNA clone IMAGE:5270641 | --- | --- |
| 237134_at | Transcribed locus | --- | --- |
| 222072_at | --- | --- | 7511 |
| 233484_at | Clone 25015 mRNA sequence | --- | --- |
| 228679_at | CDNA FLJ30856 fis, clone FEBRA2003258 | --- | --- |
| 231924_at | Full-length cDNA clone CS0DE011YB11 of Placenta of Homo sapiens (human) | --- | --- |
| 1560257_at | CDNA clone IMAGE:5298774 | --- | --- |
| 207478_at | --- | --- | 100128329 |
| 229384_at | CDNA FLJ42101 fis, clone TESOP2006704 | --- | --- |
| 243470_at | --- | --- | --- |
| 1561149_at | Full length insert cDNA clone ZD75C06 | --- | --- |
| 239450_at | Transcribed locus | --- | --- |
| 224270_at | Ovarian cancer-related protein 1 (OCR1) | --- | 100128298 |
| 206188_at | --- | --- | 9831 |
| 244072_at | --- | --- | --- |
| 243706_at | Transcribed locus | --- | --- |
| 240685_at | CDNA clone IMAGE:4829423 | --- | --- |
| 1564012_at | CDNA FLJ38229 fis, clone FCBBF2004256 | --- | --- |
| 225725_at | CDNA clone IMAGE:5261213 | --- | --- |
| 227995_at | MRNA; cDNA DKFZp564O0862 (from clone DKFZp564O0862) | --- | --- |
| 229635_at | CDNA clone IMAGE:4800262 | --- | --- |
| 240432_x_at | Transcribed locus | --- | --- |
| 241652_x_at | Transcribed locus | --- | --- |
| 242633_x_at | --- | --- | 100128510 |
| 241321_at | Transcribed locus | --- | --- |
| 231406_at | MRNA; cDNA DKFZp667G1412 (from clone DKFZp667G1412) | --- | 80228 |
| 236065_at | Transcribed locus | --- | --- |
| 238455_at | CDNA FLJ45742 fis, clone KIDNE2016327 | --- | --- |
| 225256_at | CDNA FLJ41369 fis, clone BRCAN2006117 | --- | --- |

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|--------------|---|-----|-----------|
| 228700_at | CDNA FLJ11567 fis, clone HEMBA1003276 | --- | --- |
| 229373_at | Transcribed locus | --- | --- |
| 235882_at | CDNA clone IMAGE:5303499 | --- | 55275 |
| 213573_at | Full-length cDNA clone CS0DH006YD11 of T cells (Jurkat cell line) of Homo sapie | --- | --- |
| 229952_at | Transcribed locus, weakly similar to XP_001114804.1 spectrin, beta, non-erythr | --- | --- |
| 226532_at | Full-length cDNA clone CS0DD009YD14 of Neuroblastoma Cot 50-normalized of | --- | --- |
| 229298_at | --- | --- | 84078 |
| 226002_at | CDNA clone IMAGE:4801326 | --- | 2549 |
| 225356_at | Transcribed locus | --- | --- |
| 242714_at | --- | --- | --- |
| 222366_at | Transcribed locus | --- | --- |
| 1557810_at | Clone HEA5 Cri-du-chat critical region mRNA | --- | --- |
| 230860_at | Transcribed locus | --- | 84984 |
| 238170_at | Transcribed locus | --- | --- |
| 229111_at | Transcribed locus | --- | --- |
| 239021_at | Transcribed locus, moderately similar to XP_530714.1 hypothetical protein XP_ | --- | --- |
| 228775_at | --- | --- | --- |
| 235207_at | Transcribed locus | --- | --- |
| 238507_at | Transcribed locus | --- | --- |
| 230411_at | CDNA FLJ41934 fis, clone PERIC2005111 | --- | --- |
| 233940_at | CDNA FLJ12739 fis, clone NT2RP2000498 | --- | --- |
| 1557543_at | MRNA; cDNA DKFZp313P2412 (from clone DKFZp313P2412) | --- | --- |
| 1566964_at | --- | --- | --- |
| 228415_at | --- | --- | 8905 |
| 240038_at | Transcribed locus | --- | --- |
| 226742_at | Transcribed locus | --- | --- |
| 233935_at | CDNA: FLJ23051 fis, clone LNG02642 | --- | --- |
| 230585_at | Transcribed locus | --- | --- |
| 239876_at | Transcribed locus | --- | --- |
| 242558_at | CDNA FLJ45490 fis, clone BRTHA2005831 | --- | --- |
| 239329_at | Transcribed locus, weakly similar to NP_001080148.1 factor, arginine/serine-ric | --- | --- |
| 217152_at | CDNA FLJ14074 fis, clone HEMBB1001869 | --- | --- |
| 238769_at | Transcribed locus | --- | --- |
| 243511_at | Transcribed locus | --- | --- |
| 239129_at | --- | --- | --- |
| 244550_at | --- | --- | --- |
| 235592_at | CDNA FLJ36210 fis, clone THYMU2000155 | --- | --- |
| 231963_at | Homo sapiens, clone IMAGE:3869276, mRNA | --- | --- |
| 240238_at | --- | --- | --- |
| 1564568_at | MRNA; cDNA DKFZp586D2022 (from clone DKFZp586D2022) | --- | 9244 |
| 244022_at | --- | --- | --- |
| 236462_at | Transcribed locus | --- | --- |
| 230139_at | CDNA FLJ43345 fis, clone NT2RI3008228 | --- | --- |
| 1566633_at | CDNA clone IMAGE:3950788 | --- | --- |
| 239448_at | Transcribed locus | --- | --- |
| 230526_at | CDNA clone IMAGE:5286005 | --- | 100131096 |
| 229624_at | Transcribed locus | --- | 80207 |
| 239464_at | --- | --- | --- |
| 226498_at | CDNA FLJ35153 fis, clone PLACE6010765 | --- | --- |
| 238467_at | CDNA FLJ41419 fis, clone BRHIP2002339 | --- | --- |
| 1563629_a_at | CDNA FLJ34475 fis, clone HLUNG2003716, moderately similar to RETROVIRUS-R | --- | --- |
| 1559116_s_at | CDNA clone IMAGE:3958310 | --- | --- |
| 243537_at | --- | --- | --- |
| 242155_x_at | Transcribed locus | --- | --- |
| 228471_at | CDNA FLJ11570 fis, clone HEMBA1003309 | --- | --- |
| 236379_at | --- | --- | --- |
| 232412_at | CDNA: FLJ21037 fis, clone CAE10055 | --- | --- |
| 1569551_at | Homo sapiens, clone IMAGE:4454258, mRNA | --- | --- |
| 214405_at | Clone 23705 mRNA sequence | --- | --- |
| 226641_at | CDNA FLJ11570 fis, clone HEMBA1003309 | --- | --- |
| 241860_at | CDNA FLJ40724 fis, clone THYMU2028724 | --- | --- |
| 235695_at | CDNA FLJ34214 fis, clone FCBBF3021807 | --- | --- |
| 229213_at | Transcribed locus | --- | 84925 |

| | | | |
|-------------|--|-----|-------|
| 224989_at | Full-length cDNA clone CS0DE011YO20 of Placenta of Homo sapiens (human) | --- | --- |
| 226797_at | MRNA; cDNA DKFZp434G0972 (from clone DKFZp434G0972) | --- | 54799 |
| 226810_at | MRNA full length insert cDNA clone EUROIMAGE 1509279 | --- | 79627 |
| 1563509_at | MRNA; cDNA DKFZp313O229 (from clone DKFZp313O229) | --- | --- |
| 228963_at | Transcribed locus, moderately similar to NP_076428.2 protein LOC65996 [Hom | --- | --- |
| 234644_x_at | CDNA: FLJ22426 fis, clone HRC08780 | --- | --- |
| 237119_at | Transcribed locus | --- | --- |
| 230499_at | Transcribed locus | --- | --- |
| 244202_at | Transcribed locus | --- | --- |
| 240231_at | Transcribed locus | --- | --- |
| 226201_at | MRNA; cDNA DKFZp586P1823 (from clone DKFZp586P1823) | --- | 84444 |
| 220882_at | --- | --- | --- |
| 233700_at | CDNA: FLJ21638 fis, clone COL08269 | --- | --- |
| 240547_at | Transcribed locus | --- | --- |
| 238064_at | Transcribed locus | --- | --- |
| 240190_at | Transcribed locus | --- | --- |
| 233127_at | CDNA FLJ12412 fis, clone MAMMA1003004 | --- | --- |

***tularensis* LVS**

| | 3 hr | | | 6 hr | | | 12 hr | | | |
|---------------------|----------|---------|----------|--------------------|----------|---------|----------|--------------------|----------|---------|
| ANOVA (0.000229538) | Avg ctrl | Avg LVS | LVS/ctrl | ANOVA (0.00258893) | Avg ctrl | Avg LVS | LVS/ctrl | ANOVA (0.00438409) | Avg ctrl | Avg LVS |
| | | | | | | | | 6.35822E-07 | 9407.3 | 2886.8 |
| | | | | | | | | 6.57398E-06 | 4014.45 | 1265.15 |
| | | | | | | | | 0.000121778 | 1222.4 | 571.7 |
| | | | | | | | | 2.11712E-07 | 1495.2 | 579.175 |
| | | | | | | | | 3.15513E-06 | 1050.67 | 247.8 |
| | | | | 2.36579E-05 | 3328.03 | 1552.15 | -2.14414 | 1.62228E-07 | 3941.6 | 1359.08 |
| | | | | 0.000171899 | 918.8 | 450.425 | -2.03985 | 1.89175E-05 | 1160.08 | 486.3 |
| | | | | 4.54833E-08 | 2715.15 | 6363.3 | 2.34363 | | | |
| | | | | | | | | 0.000139037 | 2361 | 1131.78 |
| | | | | 0.000030666 | 28571.4 | 12509.6 | -2.28395 | 7.97689E-06 | 34119.9 | 14984.8 |
| | | | | | | | | 2.25975E-06 | 28747.7 | 12606.6 |
| | | | | 2.96221E-05 | 13884.1 | 4542.5 | -3.05648 | 4.0264E-06 | 16536.7 | 5679.5 |
| | | | | 3.45347E-05 | 11993 | 4086.05 | -2.9351 | 4.44827E-05 | 13923.5 | 5250.33 |
| | | | | | | | | 4.49039E-08 | 2752.33 | 813.65 |
| | | | | 0.00159019 | 2072.2 | 1020.85 | -2.02988 | | | |
| | | | | 2.40717E-06 | 1401.9 | 690.85 | -2.02924 | | | |
| | | | | | | | | 6.58928E-05 | 1047.8 | 2510.88 |
| | | | | | | | | 0.000514963 | 966.25 | 2104.23 |

9.80886E-07 202.167 1812.15 8.96364 1.58472E-06 150.3 871.75

0.000155761 3692.8 1426.55

2.57868E-05 604.025 1718.38

8.33148E-06 2230.75 #DIV/0!

0.000117476 2350.85 1170.6 -2.00824 5.70229E-05 2032.18 896.875

1.60295E-06 697.8 246.875

1.65649E-05 8739.35 3841.45

5.50389E-05 1455.85 613.125 -2.37448

9.78805E-06 2547.98 6843.3

3747

0.000122173 670.525 331.067

2.74876E-05 5296.48 13514.8

6.58526E-07 1083.73 3483.63

4.99792E-05 301.35 777.075

9.17642E-08 1617.38 12257.575 7.57868

6.47543E-12 1215.03 33348.88 27.4471

6.91818E-14 890.3 46813.2

7.04433E-07 3637.35 1693.45 -2.14789

2.14372E-09 6406.05 1743.33

1.89888E-12 6313.98 1695.55

| | | | | | | | |
|-------------|-------------|---------|----------|-------------|-------------|----------|---------|
| | | | | 0.000610453 | 3840.53 | 1714.23 | |
| | 0.00161668 | 45458.4 | 95912.58 | 2.1099 | 5.04632E-07 | 20851.2 | 76040.4 |
| | | | | | 5.61738E-07 | 2211.25 | 1090.5 |
| | 2.61526E-08 | 11268.9 | 37312.08 | 3.31107 | 4.40931E-11 | 3850.6 | 21664.3 |
| | | | | | 1.77224E-05 | 3228.38 | 1026.43 |
| 3.33446E-10 | 1507.63 | 3372.7 | 2.23709 | 7.12073E-10 | 2015.9 | 4425.575 | 2.19533 |
| | | | | | 4.9509E-09 | 2151.38 | 4731.73 |

| | | | | | | |
|--|--|--|--|------------|---------|---------|
| | | | | 0.00204183 | 18474.1 | 8019.93 |
|--|--|--|--|------------|---------|---------|

| | | | | | | |
|--|--|--|--|-------------|---------|---------|
| | | | | 6.50432E-05 | 2632.95 | 1167.43 |
| | | | | 7.56701E-06 | 2142.58 | 876.3 |

| | | | | | | | |
|--|-------------|---------|----------|---------|-------------|---------|---------|
| | 5.35694E-11 | 3341.03 | 21455.78 | 6.42191 | 1.12576E-14 | 1182.38 | 17269.3 |
|--|-------------|---------|----------|---------|-------------|---------|---------|

7491

| | | | | | | |
|--|--|--|--|-------------|---------|---------|
| | | | | 1.10641E-07 | 4884.58 | 12294.9 |
| | | | | 1.65947E-08 | 3514.73 | 10720.7 |

519
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| | | | | | | | |
|--|-------------|---------|----------|---------|-------------|---------|---------|
| | 6.91821E-06 | #DIV/0! | 2290.975 | #DIV/0! | 0.000213601 | 705.925 | 297.425 |
| | 1.92335E-05 | 347.8 | 1046.05 | 3.00762 | 2.89307E-07 | #DIV/0! | 3205.93 |
| | 1.71606E-05 | 300.525 | 1151.725 | 3.83238 | 8.94912E-09 | #DIV/0! | 1445.28 |
| | 4.38898E-05 | 1436.7 | 2953.925 | 2.05605 | 3.77355E-06 | 1531.73 | 3855.63 |

0.00161997 880.3 #DIV/0! #DIV/0!

0.00189776 2795.2 5644.33
1.84024E-05 3376.18 1372.18

0.000139975 1663.75 589.35

3.47409E-06 573.375 146.95
0.000318256 756.067 #DIV/0!

3.89971E-05 4606.98 15936.65 3.45924 9.15027E-05 4777.3 15757.8
0.000253975 40765.1 88376.08 2.16794 0.000504089 38934.3 79563.3
0.000605982 39736.3 83032.1 2.08958 0.00114395 37580.5 75489.4
2.4661E-08 781.733 9447.225 12.085 1.15448E-11 787.9 25192

1.05341E-09 5297.35 11885.18 2.24361
4.47959E-06 1850.83 4138.7 2.23614

0.000179685 335.325 730.075
2.13095E-05 595.1 #DIV/0!

23600

1.86699E-05 13019.7 5771.075 -2.25603 8.90088E-07 17194.4 6441.8
1.42908E-06 15315.9 7024.675 -2.1803 1.72268E-06 20673 9717.58
0.000321909 703.967 1516.25 2.15387 0.00029403 1338.45 3098.9

0.000363773 558.95 271.9 -2.05572

1.03297E-06 1147.45 4528.78
7.31276E-08 13768.7 38446.3

/// 278 /// 279 /// 280

29198

9.99826E-09 25862.8 11294.48 -2.28986

0.00106208 2171.33 1069
0.000144329 795.175 333.625
2.71931E-06 2493.05 1042.15
2.71441E-05 897.775 254.9
2.67846E-05 1112.68 377.35

537

54882 /// 8637

54882 /// 8637

54882 /// 8637

441425 /// 441430 /// 647595 /// 728371 /// 728747 /// 728788 /// 729171 /// 84210

441430 /// 728747 /// 728788 /// 84210

| | | | | | | | | | | | |
|-------------|--------|---------|---------|-------------|---------|----------|----------|-------------|---------|---------|--|
| | | | | 0.000200816 | 1661.33 | 571.9 | -2.90492 | | | | |
| | | | | | | | | 0.00356452 | #DIV/0! | 698.825 | |
| 7.21221E-12 | 1011.3 | 10641.2 | 10.5223 | 3.57496E-15 | 672.875 | 19824.03 | 29.4617 | 1.29782E-16 | 605.4 | 28664 | |
| | | | | | | | | 0.000254378 | 1036.6 | 2456.55 | |
| | | | | 3.68282E-07 | 2892.8 | 1214.675 | -2.38154 | 0.00106812 | 780.85 | 314.133 | |
| | | | | | | | | | | | |
| | | | | 6.82072E-05 | 1450.3 | 5228.025 | 3.60479 | 2.17322E-05 | 2043.13 | 8156.08 | |
| | | | | | | | | 0.00113484 | 5956.75 | 13794.7 | |
| | | | | | | | | 8.49174E-06 | 1834.55 | 6693.78 | |
| | | | | | | | | | | | |
| | | | | | | | | 0.000343601 | 1721.28 | 786.725 | |
| | | | | | | | | 0.000137157 | 1770.33 | 520.325 | |
| | | | | | | | | | | | |
| | | | | | | | | 2.79814E-06 | 1871 | 780.467 | |
| | | | | | | | | 1.07204E-06 | 4964.88 | 2181.7 | |
| | | | | | | | | | | | |
| | | | | | | | | 9.08764E-05 | 139.4 | 1306.05 | |

1.99373E-06 4370.25 2000.225 -2.18488 0.000010768 4933.78 2462.23

8.74289E-05 1968.13 958.275

4.20069E-06 2126.85 996.55

9.05814E-06 1868.55 776.5

50489
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0.00180317 2519.3 743

8.09213E-05 1471.8 708.925 -2.0761

0.000262149 9162.85 18689.3

| | | | | | | | |
|-------------|-------------|-----------|----------|----------|-------------|---------|---------|
| | | | | | 2.90075E-07 | 852.575 | 7684.45 |
| | 1.33421E-05 | 9696.93 | 4489.9 | -2.15972 | 1.2071E-07 | 10187.8 | 4020.98 |
| | | | | | 2.17358E-06 | 19924.3 | 7076.68 |
| | 9.36259E-06 | 2017.18 | #DIV/0! | #DIV/0! | | | |
| | 6.35372E-08 | 1564 | 637.975 | -2.45151 | | | |
| 7.16376E-05 | 21331.8 | 10075.625 | -2.11717 | | | | |
| 7.18796E-05 | 24456.4 | 11103.9 | -2.20251 | | | | |

| | | | | | | | |
|------------|---------|----------|---------|--|-------------|---------|---------|
| 0.00231928 | 4471.48 | 2056.325 | -2.1745 | | 2.43552E-05 | 10253.8 | 5021.93 |
|------------|---------|----------|---------|--|-------------|---------|---------|

| | | | | | | | |
|-------------|---------|----------|----------|--|-------------|---------|---------|
| 3.61482E-12 | 3109.58 | 7373.325 | 2.37117 | | 0.000915775 | 946.7 | 1982.75 |
| 1.23815E-05 | 2451.4 | 6237.85 | 2.54461 | | 0.00267218 | 860.3 | 1926.25 |
| | | | | | 3.75668E-05 | 2754.5 | 6420.5 |
| 4.00096E-08 | 8405.03 | 2862.475 | -2.93628 | | 0.000976382 | 1119.68 | 2277.8 |
| | | | | | 3.89523E-12 | 13188.2 | 2698.98 |

29446

| | | | | | | | |
|-------------|-------------|----------|----------|----------|-------------|---------|---------|
| | | | | | 2.31553E-08 | 5569.6 | 12102.6 |
| | | | | | 1.96823E-09 | 4169.65 | 8340 |
| 3.26038E-05 | 2725.25 | 1336.9 | -2.03848 | | | | |
| | | | | | | | |
| | 7.20032E-07 | 2148.13 | 663.425 | -3.23793 | | | |
| | 3.36146E-09 | 4539.98 | 1639.5 | -2.76912 | | | |
| 2.62171E-06 | 2605.13 | 8564.075 | 3.2874 | | 1.13837E-10 | 936.4 | 5149.03 |
| 2.74019E-05 | 8632.23 | 24770.45 | 2.86953 | | 4.64374E-09 | 3267 | 15847.4 |
| | | | | | 2.63691E-06 | 6478.5 | 3087.3 |
| 2.0646E-06 | 4934.68 | 2404.925 | -2.0519 | | | | |
| 4.04487E-06 | 4210.75 | 1726.925 | -2.43829 | | 1.10666E-08 | 5655.15 | 1572.2 |

| | | | | | | | |
|--|--|--|--|--|-------------|---------|---------|
| | | | | | 8.02708E-09 | 2929.63 | 7129.13 |
| | | | | | 0.00105287 | 2444 | 5738.43 |

0.000709712 5842.15 2520.85 -2.31753

0.00334721 638.55 #DIV/0!

1.30669E-09 3163.23 9824.175 3.10575
1.89898E-06 2148.15 6020.025 2.80242

9.81472E-13 2116.18 9915.48
6.30246E-08 1443.48 4968.33

1.05467E-08 1327.7 457.35

0.000440721 440.075 926.8

2.05886E-06 2987.53 1430.35

2.71773E-05 257.5 631.025
9.92732E-06 2508.18 5168.98

0.00106473 1421.58 2980.48

1.16427E-08 794.675 2244.65

5.41515E-06 4221.23 9240.9

1.58749E-07 604.95 1643.15

2.822E-08 749.125 2396.9

1.19247E-05 619.575 2182.53

3.39249E-05 1166.45 551.55

3.81554E-05 9496.63 4634.43

1.36666E-05 20822.5 9828.23

6.25338E-06 11671.8 5578.7

1.7255E-07 1345.37 486.4 -2.76597

2.23677E-06 7833.33 16905.5

1.60522E-06 8096.83 17908.7

| | | | | | | |
|-------------|---------|----------|---------|-------------|---------|---------|
| | | | | 0.00433318 | 855.175 | 398.5 |
| | | | | 0.000838055 | 960.3 | #DIV/0! |
| 2.53224E-07 | 10535.7 | 36576.13 | 3.47164 | 1.14249E-10 | 5919.9 | 36895.1 |
| | | | | 3.19502E-09 | 6172.3 | 1600.38 |
| | | | | 1.08034E-06 | 21366.9 | 46815.4 |
| | | | | 1.77274E-06 | 26127.8 | 54300.2 |
| | | | | 5.47588E-05 | 1321.1 | 427.6 |
| | | | | 0.000128294 | 2462.25 | #DIV/0! |
| | | | | 0.00258624 | 454.775 | 1042 |
| | | | | 0.000219902 | 712.475 | 1906.35 |
| | | | 2.67567 | 0.000610849 | 479.9 | 1256.05 |
| | | | | 9.64446E-05 | 5138.43 | 17146.3 |
| 9.23614E-12 | 8988.38 | 29562 | 3.28891 | 2.6882E-13 | 4907.08 | 19303.3 |

0.00292555 3662.53 1800.58

5316 /// 85318 /// 85319
5319

| | | | | | | |
|-------------|--------|----------|----------|-------------|---------|---------|
| 6.28829E-05 | 8120.3 | 3723.775 | -2.18066 | 0.000394553 | 15438.1 | 7357.03 |
| 2.41347E-05 | 541.6 | 198.675 | -2.72606 | 5.26286E-05 | 772.375 | 226.55 |
| | | | | 0.000341091 | 843.85 | 406.15 |

| | | | | | | |
|-------------|---------|-----------|---------|-------------|---------|----------|
| 0.000685306 | 680.9 | 2231.425 | 3.27717 | 1.28252E-05 | 1022.37 | 4117.3 |
| 3.05211E-10 | 9167.28 | 27446.65 | 2.99398 | 3.36531E-13 | 3941.65 | 16453.6 |
| | | | | 0.00012719 | 1656.15 | 824.7 |
| 1.32144E-05 | 5746.3 | 15435.525 | 2.68617 | 1.76716E-07 | 4159.2 | 17125.28 |
| | | | | 3.4472E-06 | 21567.6 | 64555.85 |
| | | | | 2.30059E-11 | 4501.8 | 33716.4 |
| | | | | 2.53625E-06 | 21637.1 | 62728.9 |
| | | | | 0.00205564 | 194.6 | 1133.025 |
| | | | | 5.82233 | | |
| | | | | 1.40163E-05 | 5798.1 | 2069.775 |
| | | | | 3.52488E-07 | 6027.1 | 1668.875 |
| | | | | 4.61298E-06 | 10469 | 3504.775 |
| | | | | 7.92026E-06 | 6654.03 | 2273.43 |
| | | | | 1.14406E-07 | 6974.8 | 1800.85 |
| | | | | 6.05733E-07 | 12122.6 | 3343.65 |
| | | | | 0.000580945 | 1608.83 | 630.7 |
| | | | | 1.66369E-06 | 8248.68 | 4119 |
| | | | | 5.86335E-05 | 3820.35 | 12522.43 |
| | | | | 3.27782 | | |
| | | | | 1.66284E-05 | 2598.88 | 10472.8 |
| | | | | 0.000105225 | 5521.03 | 2367.175 |
| | | | | -2.33233 | | |
| | | | | 0.000252245 | 7833.95 | 3694.33 |
| | | | | 0.000387999 | 6443.7 | 3045.98 |
| | | | | 0.000093237 | 2412.8 | 1129.675 |
| | | | | -2.13584 | | |
| | | | | 0.000168928 | 13025.6 | 6132.05 |
| | | | | -2.12419 | | |
| | | | | 6.97196E-05 | 13945.9 | 6876.85 |
| | | | | -2.02795 | | |
| | | | | 1.37045E-06 | 15917.3 | 3941.9 |

| | | | | | | | | | | |
|-------------|---------|----------|---------|-------------|---------|----------|---------|-------------|---------|---------|
| 1.47977E-07 | #DIV/0! | 1492.275 | #DIV/0! | 2.45803E-13 | 180.1 | 5440.75 | 30.2096 | 5.59621E-12 | 166.4 | 5983.38 |
| 3.76047E-18 | 269.8 | 3941.15 | 14.6077 | 2.23554E-22 | 295.475 | 11908.58 | 40.3032 | 8.98594E-23 | 319.667 | 13499.9 |
| | | | | 0.000689756 | 31611.2 | 72753.75 | 2.30152 | 0.00220829 | 38365.5 | 82021.5 |
| | | | | 2.92268E-05 | 31756 | 79335.18 | 2.49828 | 0.000405571 | 35005.7 | 73512.9 |

7.54159E-07 1268.43 2755.63

1.81591E-05 5872.23 2735.075 -2.14701

5.00087E-09 2160.85 643.75 -3.35666 9.21712E-10 3498.58 938.725

7.02529E-10 2997.68 10119.93 3.37592 1.23734E-05 1994.03 4153.28

6.34992E-06 792.125 310

0.00108891 880.5 2796.375 3.17589

0.000360671 1970.35 970.2

0.00109125 15277.3 7478.33

1118

0.00049821 13247.1 6389.425 -2.07328

4.17167E-05 3944.8 1393.7

0.000610788 1999.9 981.875 -2.03682

2.72302E-05 3563.65 1500.35

0.000326668 2808.78 1383.575 -2.03009

8.32174E-05 3838.08 1773.33

5.66332E-05 2744.15 1220.88

9689

4.32822E-12 15615.9 38657.85 2.47555

9.09913E-10 15343.2 31137.3

1.07419E-08 17183.6 38994.4 2.26929

3.36822E-08 14523.4 31003.9

2.9401E-08 5997.55 13273.2

1.37193E-10 19681.8 46143.4

1.6112E-09 8552.1 21398.5

3.98441E-05 3423.4 1659.58

5.5365E-07 24579.2 11933.9

2.60471E-05 24886.9 11253.1

0.00416196 253.1 778

2.40317E-06 914.275 401.875

2.46615E-05 777.925 1742.55

8.39913E-06 3630.75 1475.15

5.25689E-07 810.9 2234.3 2.75533

1.92961E-09 896.467 3795.48

0.00121098 747.433 #DIV/0! #DIV/0!

30183
30183

2.10504E-07 741.975 356.5

0.00218584 545.5 #DIV/0! #DIV/0!

2.90253E-06 868.55 261.1 -3.3265

2.04575E-06 2012.08 926.925 -2.1707

/// 64430

1.13421E-07 6534.93 2521.15 -2.59204

2.27926E-09 10310.9 3395

7.4012E-06 2351.7 5261.65

4.73797E-07 12908.2 26204.4

0.00100482 575.775 1483

1.13642E-05 1260.83 428.725 -2.94087

0.00190843 1879.55 938.625 -2.00245

8.32805E-05 625.475 278.7 -2.24426

1.10781E-06 4663.75 1744.675 -2.67313

0.000010619 5013.13 2108.68

8.03365E-05 490.4 1589.53

| | | | | | | |
|-------------|---------|----------|---------|-------------|---------|---------|
| 3.95963E-07 | 591.175 | 2333.925 | 3.94794 | 8.89154E-09 | 532.05 | 2964.33 |
| 1.41735E-05 | #DIV/0! | 2862.667 | #DIV/0! | 1.7126E-06 | #DIV/0! | 3328.03 |

| | | |
|-------------|-------|-------|
| 0.000861762 | 900.3 | 367.6 |
|-------------|-------|-------|

440400

| | | | | | | |
|-------------|---------|---------|---------|-------------|--------|--------|
| 0.000119235 | 339.025 | 785.025 | 2.31554 | 1.48887E-05 | 576.55 | 1490.9 |
|-------------|---------|---------|---------|-------------|--------|--------|

| | | | |
|-------------|-------|--------|---------|
| 7.32563E-05 | 627.7 | 1256.4 | 2.00159 |
|-------------|-------|--------|---------|

| | | | | | | | | | | |
|-------------|---------|----------|---------|-------------|---------|----------|---------|-------------|---------|---------|
| 1.2614E-07 | 301.375 | 1531.65 | 5.08221 | 2.98167E-10 | 137.9 | 1240.2 | 8.99347 | 4.79212E-10 | 143.8 | 2108.68 |
| 2.48632E-09 | 332.967 | 2358.625 | 7.08367 | 2.30491E-15 | 251.033 | 4601.35 | 18.3296 | 2.46575E-17 | 291.1 | 8129.3 |
| | | | | 5.03381E-16 | 224.1 | 7094.975 | 31.6599 | 1.27667E-16 | 248.433 | 11402.4 |

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|-------------|---------|--------|----------|-------------|---------|---------|
| 0.000136699 | 1318.38 | 583.55 | -2.25923 | 3.68611E-05 | #DIV/0! | 2329.08 |
|-------------|---------|--------|----------|-------------|---------|---------|

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|-------------|---------|----------|----------|-------------|---------|---------|
| 1.21669E-07 | 5034.15 | 2476.725 | -2.03258 | 3.02139E-07 | 5031.43 | 2194.95 |
|-------------|---------|----------|----------|-------------|---------|---------|

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|-------------|--------|----------|--------|-------------|---------|---------|
| 6.18046E-05 | 2308.3 | 6962.525 | 3.0163 | 4.44638E-09 | 2437.65 | 15927.1 |
|-------------|--------|----------|--------|-------------|---------|---------|

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| 2.07706E-05 | 1113.25 | #DIV/0! |
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| 3.39006E-07 | 2429 | 985.825 |
|-------------|------|---------|

0.00016158 4128.08 1786.55

2.23666E-07 1481.35 564.525 -2.62406 9.42768E-08 2377.25 752.375

200095 /// 644364

0.00092153 #DIV/0! 890.8
0.000687668 756.167 1870.4

4.83859E-06 2469.6 15615.8

1.55653E-06 2681.78 1238.35

4.70208E-06 6502.85 2587.85 -2.51284

1.33188E-05 7335.25 3089.8 -2.37402

4.77369E-06 1975.7 914.95 -2.15935

3.51273E-06 #DIV/0! 1048.48

1.05374E-07 7042.2 2239.05

1.20297E-05 5963.5 2892.15

/// 149934 /// 9611

5.86503E-07 500.15 #DIV/0!

2.09415E-06 763.1 1992.775 2.61142 1.4379E-06 1084.75 2995.03

7.59429E-06 5163.1 2220.05 -2.32567

/// 2483 /// 284802 /// 642236

5.43049E-09 1071.13 403.2

1.22323E-08 1787.25 625.65 -2.85663 1.74521E-05 1140.55 516.475
2.72223E-09 2939.8 932.6

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|-------------|---------|----------|---------|-------------|---------|----------|---------|-------------|---------|---------|
| 7.24459E-08 | 1026.13 | 3231.875 | 3.14959 | 4.75554E-17 | 1274.83 | 19733.2 | 15.4791 | 1.43162E-17 | 1639.35 | 30899.5 |
| 2.55468E-09 | 928.45 | 2995.875 | 3.22675 | 4.91349E-19 | 1087.23 | 18004.03 | 16.5596 | 1.42925E-19 | 1467.9 | 27498.8 |
| 7.69338E-09 | 942.675 | 3271.85 | 3.47081 | 1.23187E-17 | 1159.2 | 17748.03 | 15.3106 | 9.8641E-19 | 1403.23 | 26888.6 |

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|-------------|-------|----------|---------|-------------|---------|----------|----------|-------------|---------|---------|
| | | | | 0.000116887 | 968.2 | 435.325 | -2.22409 | 3.07668E-07 | 1964.33 | 580.6 |
| | | | | 4.59544E-08 | 1916.78 | 732.125 | -2.6181 | 3.40445E-07 | 2740.23 | 1221.1 |
| 1.61086E-05 | 966.8 | 2190.525 | 2.26575 | 5.75526E-13 | 754.375 | 4750.425 | 6.29717 | 4.34356E-15 | 752.125 | 7039.18 |

3.07364E-06 1641.78 806.525

0.00117923 901.2 389.425

3.63478E-06 2436.95 1056.03

2.26586E-08 3531.8 1494.25 -2.36359

0.000400058 2983.68 1426.1

3729
285753

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|-------------|---------|----------|---------|-------------|-------------|----------|----------|
| | | | | | 0.000126096 | 1065.03 | 371.8 |
| | | | | | 1.95422E-06 | 5002.55 | 2455.9 |
| | | | | 1.34791E-08 | 3212.25 | 1172.5 | -2.73966 |
| | | | | | 5.74341E-07 | 3530.53 | 1512.68 |
| | | | | 0.00163657 | 573.65 | 255.8667 | -2.24199 |
| | | | | | 0.000030058 | 679.175 | 246.1 |
| | | | | | 0.000199842 | 1396.08 | 605.6 |
| | | | | 4.26026E-06 | 1215.2 | 388.275 | -3.12974 |
| | | | | 5.83477E-06 | 1842.5 | 734.55 | -2.50834 |
| | | | | 0.000103842 | 1639.18 | 549.975 | |
| | | | | 2.50727E-07 | 2764.4 | 915.15 | |
| | | | | 4.67313E-06 | 2729.73 | 1137.95 | |
| 1.73036E-14 | 647.275 | 7819.625 | 12.0808 | 7.85711E-19 | 387.3 | 11788.63 | 30.438 |
| | | | | 6.91132E-06 | 6363.85 | 2388.725 | -2.66412 |
| | | | | 0.000851972 | 1410.15 | #DIV/0! | #DIV/0! |
| | | | | 2.92345E-19 | 364.675 | 13590.6 | |
| | | | | 0.000168512 | 7631.35 | 3456.28 | |
| | | | | 7.12324E-09 | 4459.7 | 10588.4 | |
| | | | | 0.000407949 | 887 | 1827.375 | 2.06017 |
| | | | | | 0.000488962 | 497.3 | 1815.65 |
| | | | | | 1.55028E-05 | 982.775 | 1993.23 |
| | | | | | 0.00010411 | 888.675 | 334.7 |
| | | | | 1.06671E-05 | 906 | 355.725 | -2.54691 |
| | | | | | 4.54141E-09 | 1214.9 | 338.533 |
| | | | | | 0.000175089 | 1269.4 | 541.2 |
| | | | | | 0.00237579 | 13456.4 | 29324.4 |
| | | | | | 5.67449E-05 | 6182.95 | 12546.6 |
| | | | | 0.00027854 | 774.575 | 1568.95 | 2.02556 |
| | | | | | 5.3031E-08 | 960.1 | 3810.23 |

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|-------------|---------|----------|----------|-------------|---------|---------|
| 0.000621871 | 19707.4 | 7304.5 | -2.69797 | 5.45214E-05 | 13225.5 | 3080.4 |
| 0.000626102 | 11023.6 | 4101.575 | -2.68765 | 0.000071854 | 7121.38 | 1951.48 |
| 1.25541E-06 | 8640.48 | 3356.2 | -2.57448 | 5.40125E-05 | 13359.3 | 6375.53 |

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| 7.09716E-07 | 4236.18 | 1958.73 |
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|------------|---------|---------|---------|-------------|--------|---------|
| 0.00047639 | 1357.23 | #DIV/0! | #DIV/0! | 0.00129123 | 812.5 | 366 |
| | | | | 0.000031499 | 1905.7 | #DIV/0! |

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|-------------|---------|----------|---------|-------------|---------|---------|
| | | | | 1.82956E-08 | 3756.33 | 1623.2 |
| | | | | 0.00101046 | 5119.48 | 2467.75 |
| | | | | 2.0054E-11 | 5445.93 | 1792 |
| 0.000911318 | 470.6 | 1125.55 | 2.39173 | 0.00333645 | #DIV/0! | 842.7 |
| 3.66703E-05 | #DIV/0! | 1238.675 | #DIV/0! | 6.60882E-06 | #DIV/0! | 946.833 |

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|-------------|--------|---------|---------|-------------|---------|---------|
| | | | | 0.000138003 | 1805.58 | 4096.7 |
| 1.85043E-05 | 8493.2 | 18847.5 | 2.21913 | 1.57999E-05 | 6732.78 | 14659.9 |

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|------------|---------|--------|
| 0.00254521 | 679.825 | 295.65 |
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2.95699E-06 1069.4 411.375

0.000609216 1797.8 605.2 -2.97059

3.87824E-05 2899.58 1183.5

1.14826E-10 3881.38 1443.575 -2.68872

3.78E-10 5511.35 2248.18

9.92504E-06 1499.23 642.675 -2.33279

2.40695E-07 5547.55 12712.3

3.90238E-09 2041.28 8330.23

0.00144684 2003.73 976.325 -2.05231

440278

0.000627524 1016.95 499 -2.03798

0.00020744 1026.98 488.15 -2.10381

7.11885E-06 1212.45 476.6

3.71823E-07 2984.1 967.8 -3.08338

5.34829E-06 5051.28 1965.3

53972

1.00626E-06 1218.3 535.225 -2.27624

0.00130783 593.2 275.475

3.55859E-06 1729.28 786.2

4.09965E-08 777.85 2377.55

2.05969E-05 #DIV/0! 2217.33

3.14075E-06 575.425 2504.15

0.000105165 #DIV/0! 711.033

7.79338E-06 1054.73 501.075

3.90326E-05 1861.78 474.25

0.00118928 704.95 235.75

0.000343291 706.925 307.1333 -2.30169

0.00432132 929.175 457.075

1.08387E-07 8662.58 3761.18

2.54802E-07 8083.15 3721.68

2.38449E-05 1239.58 3184.88

1.30581E-06 #DIV/0! 11577.43 #DIV/0!

5348 /// 6349 /// 728830

0.00143309 15910.2 46602.88 2.92912

0.00089253 6616.05 28841.5

0.00136379 9263.25 30063.4

5.03244E-07 7277.38 3264.95 -2.22894

2.45111E-06 8239.43 4009.8

5.57637E-08 8223.45 3371.9

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|-------------|---------|----------|----------|-------------|---------|---------|
| 9.6255E-08 | 15156.5 | 7125.975 | -2.12694 | 5.08854E-09 | 15488.7 | 6209.9 |
| 0.000577557 | 7128.43 | 2745.4 | -2.5965 | 3.17524E-05 | 8044.7 | 2294.6 |
| 3.41941E-09 | 16973.3 | 7545.025 | -2.2496 | 1.57657E-10 | 18278.2 | 7263.75 |
| 1.65343E-07 | 4038.98 | 1547.625 | -2.60979 | 9.43197E-09 | 5236.8 | 1541.68 |
| 5.81785E-05 | 4066.7 | 2030.35 | -2.00296 | 7.52614E-09 | 6067.3 | 1973.85 |
| 3.61647E-06 | 4209.65 | 1758.1 | -2.39443 | 6.13638E-09 | 7448.9 | 2126.38 |
| 1.5469E-07 | 5729.28 | 2711.2 | -2.11319 | 1.35795E-10 | 9171.98 | 3212.88 |
| | | | | 2.84873E-07 | 5202.3 | 2172.13 |
| | | | | 0.000864428 | 14326.4 | 6344.28 |

9230

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|-------------|---------|----------|---------|
| 0.000364505 | 23293.5 | 9088.725 | -2.5629 |
|-------------|---------|----------|---------|

9034

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|-------------|---------|----------|---------|-------------|---------|---------|
| 0.000246779 | 8658.95 | 25847.03 | 2.98501 | 3.17364E-05 | 11423.5 | 38810.5 |
|-------------|---------|----------|---------|-------------|---------|---------|

549553

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|-------------|---------|-----|
| 8.61439E-08 | 1131.65 | 475 |
|-------------|---------|-----|

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| 6.39678E-07 | 1427.75 | 535.225 |
|-------------|---------|---------|

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| 6.85989E-05 | #DIV/0! | 702.533 |
|-------------|---------|---------|

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|-------------|---------|----------|----------|-------------|---------|---------|
| 0.000195909 | 19957.9 | 42768.1 | 2.14292 | 7.19189E-06 | 26100.2 | 73389.1 |
| | | | | 5.76467E-07 | 8730.55 | 34569.1 |
| 1.09333E-05 | 18687.6 | 8241.975 | -2.26737 | | | |
| 0.000060676 | 22445.1 | 7778.375 | -2.88558 | 2.26032E-08 | 30949.5 | 6726.3 |

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|------------|--------|---------|
| 0.00410673 | 9050.8 | 18737.8 |
|------------|--------|---------|

0.00275792 10165.9 22908.3

4.51166E-06 19189.1 9504.15

3

0.00112017 2329.93 7234.43

2.04232E-06 5121.05 15773.03 3.08004
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5.79037E-08 4785.55 19418.2

326 /// 927

1.92364E-05 702.275 344.525 -2.03839
3.5163E-06 7256.93 2765.725 -2.62388

9.67558E-08 8778.08 2821.1

729948 /// 730314

384
384
384

1.012E-07 4351.85 2099.75

0.000657049 22317.2 44997.2
0.000220631 5808.7 15522.3

4.87475E-07 #DIV/0! 1247.6

9.59666E-09 21011 7723.175 -2.72052

3.18315E-07 27358.2 12680.3
4.54513E-07 1761.4 5150.95
0.000282546 614.6 2553.28
5.89033E-07 2862.83 1067.85

0.000546691 976.4 #DIV/0!

0.000401709 7264.9 29978.1

2.88559E-08 3410.8 1169.55 -2.91634
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9.74401E-07 3888.25 1889.425 -2.0579

2.98538E-06 5639.13 2461.83

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0.00107592 1059.08 516.133

0.00256767 35811.3 16755.45 -2.13729
0.00239138 2452.9 949.3 -2.5839

2.89397E-06 32301 8954.18
3.23886E-05 1711.4 406.2

1.70942E-07 308.75 1079.8 3.49733

1.54264E-10 263.2 1390.63

3.3683E-08 17762.5 6961.175 -2.55165
3.57304E-06 10024 4615.975 -2.17158

9.64092E-06 823.9 340.4 -2.42039 1.31955E-06 806.25 291.375
2.11303E-05 512.733 1808.65
2.05983E-06 920.925 3013 3.27171 3.95554E-08 1758.53 8205.25
0.00169483 311.075 667.425

6.52958E-06 602.6 289.1 -2.0844

5.59479E-07 10553.9 23711.4

6.45136E-08 10038.1 4652.35 -2.15765 1.04836E-08 12671.6 5140.4

2.50709E-05 952.9 2603.03

4.51668E-06 12722.5 5851.525 -2.17421

0.000160633 819.425 #DIV/0!
0.00327747 510.233 248.8
3.1751E-06 2619.25 350.5

4.94265E-05 1649.75 423.0333 -3.89981

0.000823928 958.375 2651.275 2.76643

6.39317E-08 2767.68 1216.63

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2.46541E-09 28986.6 6542.9

387837

0.00118699 52123.6 21761.2
0.00281234 45024.5 20194.7
0.00408807 15651.2 7502.38

0.00251835 7695.38 2227.05 -3.45541

1.31482E-07 1929 16659.9

7.19935E-06 3465.88 6973.2

6.74995E-05 #DIV/0! 517.567
7.13918E-05 475.433 1436.43
0.00133176 512.275 1495.53

0.000785811 661.475 273.5

1.01891E-05 2122.1 973.175

2.64944E-06 3797.55 1701.8

543827 /// 653355 /// 728577 /// 79937

4.99607E-05 1655.38 541.175

0.000817015 72 963.7

3.06845E-06 2373.63 993.725 -2.38861

1.05818E-07 #DIV/0! 2174.58

0.000130574 #DIV/0! 531.775

3.90798E-06 1911.75 824.65

4.4562E-06 1157.58 576.6 -2.00759

1.08102E-09 1226.23 474.767

0861

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3.51976E-08 #DIV/0! 2829.98

0.000137739 8062.35 1960.1

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0.000357539 890.825 415.2
0.000174195 828.567 #DIV/0!

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2.50766E-05 558.5 233.525 -2.39161

2.38467E-07 5517.3 2706.68

3106
496

0.000229457 898.4 #DIV/0!

2.79195E-05 1197.33 2431.825 2.03105

399753 /// 642517 /// 728127 /// 729092
119385 /// 414189 /// 653268 /// 728404

0.000498357 319.175 1118.875 3.50552

0.000719346 9469.65 4495.75

0.000173472 19415.6 8462.4

6.23949E-06 3434.48 1567.88

4.60815E-06 4054.63 1553.8 -2.60949
2.95626E-06 6300.3 2557.5 -2.46346
0.000141412 5498.63 2625.175 -2.09457

0.000124611 18311.8 37820.6 2.06537

0.000458108 2064.7 12680.5

0.000155084 3181.8 1258.225 -2.5288 4.26705E-06 2971.4 909.325

91966
91966
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|-------------|---------|----------|----------|-------------|---------|---------|
| | | | | 0.00118074 | 1249.28 | 583.925 |
| | | | | 8.04341E-06 | 685.525 | 322.275 |
| | | | | 2.44687E-05 | 1215.85 | #DIV/0! |
| 0.0022621 | 721.567 | #DIV/0! | #DIV/0! | 0.00011103 | 984.875 | #DIV/0! |
| 6.13961E-07 | 4810.4 | 2258.125 | -2.13026 | | | |
| | | | | 0.000235071 | 1647.18 | 355.3 |
| | | | | 0.00213627 | 794.867 | #DIV/0! |
| 4.99221E-08 | 1881.8 | 4722.325 | 2.50947 | 1.56564E-05 | 1844.65 | 4266.93 |

0.000010982 5644.1 2262.4

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|-------------|---------|---------|---------|-------------|---------|---------|
| | | | | 4.94504E-05 | 4821.05 | 2358.48 |
| 1.1181E-13 | 2404.7 | 8490.85 | 3.53094 | 1.27066E-15 | 3075.58 | 13152.4 |
| 3.01092E-10 | 7942.48 | 25390 | 3.19674 | 6.84456E-14 | 9172.75 | 49215.1 |

J054 /// 57055 /// 57135 /// 732447

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|-------------|------|-------|--------|-------------|---------|-------|
| 0.000121571 | 1336 | 615.1 | -2.172 | 1.58543E-05 | 1161.88 | 493.6 |
| | | | | 9.05735E-05 | 1161.6 | 577.9 |

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|-------------|---------|----------|---------|-------------|---------|---------|
| 0.000339363 | 18716.8 | 98337.33 | 5.25395 | 2.63582E-07 | 10085.9 | 32086.7 |
| | | | | 4.68316E-06 | 8491.6 | 76839.8 |
| | | | | 1.39802E-05 | 4403.28 | 1880.58 |
| | | | | 0.000373078 | 3925.38 | 1785.25 |

J081 /// 642846

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|-------------|---------|----------|----------|-------------|---------|---------|
| 1.29771E-06 | 4428 | 11898.43 | 2.68709 | 1.16446E-05 | 3840.6 | 9771.05 |
| 1.60864E-06 | 3352.58 | 9534.225 | 2.84385 | 0.000717979 | 3519.7 | 7331.28 |
| 5.19419E-08 | 1926.38 | 5814.9 | 3.01857 | 1.89042E-05 | 1850.25 | 4475.18 |
| 1.34502E-06 | 2320.45 | 5880.475 | 2.5342 | 4.16134E-05 | 2337.7 | 5033.75 |
| 1.40126E-07 | 4596.83 | 15021.58 | 3.26782 | 0.000147947 | 4071.58 | 8776.95 |
| 6.74627E-05 | 5597.9 | 12914.15 | 2.30696 | | | |
| 1.16902E-08 | 3048 | 7574.825 | 2.48518 | | | |
| 9.76426E-08 | 1788.6 | 533.9667 | -3.34965 | 6.42913E-07 | 2789.9 | 903.025 |
| 2.17398E-05 | 858.367 | #DIV/0! | #DIV/0! | 0.000973093 | 1578.9 | 643.6 |

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|-------------|---------|----------|---------|-------------|---------|-------|
| 1.82971E-11 | 2527.25 | 5961.825 | 2.35902 | 6.22518E-14 | 2625.65 | 7954 |
| | | | | 0.000116233 | 1406.8 | 683.2 |

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|-------------|---------|---------|---------|--|--|--|
| 0.000134818 | 2983.3 | 6418.7 | 2.15154 | | | |
| 3.75935E-06 | 856.875 | 1861.15 | 2.17202 | | | |

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| 2.75749E-09 | 7133.55 | 2556.675 | -2.79017 | 2.76744E-08 | 8410.4 | 3511.6 |
| 0.000038958 | 2758.65 | 1217.375 | -2.26606 | | | |

58 /// 728358

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503614

5.37311E-06 15665.3 37188.7
1.36814E-07 1310.18 6899.13
1.10046E-05 1112.95 4586

359

7.55928E-06 4169.93 1577.5 -2.64338 7.48252E-08 5934.78 1618.3

1.94874E-06 4488.95 2003.73

3.11135E-07 2369.8 584.625 -4.05354 2.44246E-07 2859.08 679.9
1.09107E-07 1847.35 897.7 -2.05787 5.69577E-07 2308.28 814.3
2.69548E-08 2064.9 #DIV/0! #DIV/0! 1.48893E-07 2347.73 781.9

2.57464E-09 2798.8 750.925 -3.72714 1.45208E-08 4986.3 1555.35
4.47368E-09 2653.33 1049.225 -2.52884 1.85488E-08 4314.08 1802.3

0.00004184 13444 6238.95 -2.15485 1.0762E-06 18601 6698.85
2.73681E-05 10015 4041.925 -2.47777 3.68313E-05 12580.6 5654.95
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140354

1.51908E-11 3205.43 961.333
4.93223E-07 3989.58 1721.1
0.00171254 452.1 1051.45

3238 /// 728340 /// 730394

0.000208535 442.525 1104.38
0.000132901 1638.65 751.05
4.63906E-06 3238.38 758.45

8.67178E-09 12156.7 30934.5

0.00027207 2099.5 5952.43

3.77422E-07 7002.4 3105.9

0.000978122 724.175 2009.925 2.77547
6.79023E-05 4848.48 13374.4 2.75848
3.95464E-07 3422.48 9489.73
5.52141E-06 1132.25 5018
1.07588E-06 6454.25 24640.3

0.000583849 5512.48 2676.7 -2.05943

4.56735E-09 14943.9 4536.8 -3.29392

0.00335758 #DIV/0! 1254.8
2.31826E-11 31834.7 7422.58
0.00262709 3298.2 1058.43

400206

349152 /// 442523 /// 554236

/// 113878

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|-------------|---------|----------|----------|-------------|---------|----------|----------|
| | | | | 0.00306092 | 720.375 | 347.1 | |
| | | | | 9.64696E-05 | 577.5 | 1345.55 | |
| | | | | 0.000323819 | 8162.95 | 3657.1 | |
| 0.000208226 | 1493.88 | 606.15 | -2.46453 | | | | |
| 0.000325863 | 1722.23 | #DIV/0! | #DIV/0! | | | | |
| | | | | 0.000557247 | 563.225 | 2194.55 | |
| 0.000012837 | 813.267 | 2034.55 | 2.5017 | | | | |
| 2.17601E-06 | 3515.95 | 13309.58 | 3.78548 | | | | |
| 4.78897E-07 | 1345.45 | 5266.15 | 3.91404 | | | | |
| | | | | 2.4831E-07 | 1531.7 | #DIV/0! | |
| 3.01967E-08 | 674.933 | 1955.3 | 2.89703 | 1.18394E-07 | 1222.88 | 3131.05 | |
| 0.000762661 | #DIV/0! | 704.5333 | #DIV/0! | 9.99256E-05 | 215.05 | 1004.88 | |
| 9.40858E-06 | #DIV/0! | 1506.325 | #DIV/0! | 1.20755E-06 | 436.6 | 2057.38 | |
| 0.00170703 | 935.6 | 2311.275 | 2.47037 | | | | |
| | | | | 0.000202064 | 4780.8 | 1935.1 | |
| | | | | 7.23977E-06 | 824.45 | 328.6333 | -2.50872 |
| | | | | 1.77637E-08 | 1579.58 | 421.65 | |
| 0.00117446 | 705.8 | #DIV/0! | #DIV/0! | 3.16878E-06 | 562.2 | 157.6 | |
| 0.00118454 | 709.067 | #DIV/0! | #DIV/0! | | | | |
| | | | | 2.40742E-07 | 5452.93 | 15111.88 | 2.77133 |
| | | | | 1.28227E-08 | 4589.15 | 16163.8 | |
| | | | | 0.000134998 | 3098 | 964.675 | |
| | | | | 0.000159358 | 2006.9 | 742.525 | |

1.21058E-05 2360.08 1146.78

0.000205346 3052.55 1208.35 -2.52621 0.000217646 2684.1 1151.575 -2.33081 2.57909E-05 2777.03 815.25

0.000983854 4776.33 2199.4

3.65653E-06 2763.08 1299.725 -2.12589

/// 146779

7.8706E-06 #DIV/0! 804.8 #DIV/0! 1.6654E-07 #DIV/0! 900.65

0.000317279 8784.43 22071.33 2.51255
5.96615E-06 1913.8 6507.1 3.40009 8.78143E-05 3995.95 10969.5
3.06721E-06 4363.73 11576.8 2.65296 1.05128E-05 7200.5 18524.8

1.42021E-08 12688.8 36201.08 2.853 2.15829E-05 6005.6 12193
2.63979E-06 11711.8 29314.33 2.50298 1.48658E-05 4934.9 11627.7
7.86461E-07 8480.8 27514.95 3.24438 6.50723E-06 3014.38 8952.63
1.09807E-06 3011.98 10840.83 3.59924 9.28562E-06 1178.2 3596.33
6.898E-10 7296.3 28652.45 3.92698
0.00422437 1655.58 4137.8

0.00202173 1486.73 675.1 -2.20223 2.36777E-05 2189.63 612.6
1.38879E-05 2744.05 1004

0.00121418 1608.68 4534.6 2.81884 2.53147E-05 1305.38 5607.5

0.000632487 666.3 #DIV/0! #DIV/0!

192670
192670

7.58878E-07 5270.18 2351.725 -2.24098

1.20886E-07 7077.03 2835.05
0.000291503 4250.35 1889.63
1.16821E-05 31562.8 14245.9

0.00124115 1121.78 541.375

3663
3663

4.64824E-09 1247.23 504.85

0.000726197 954.575 373.175
4.45851E-05 941.925 2291.43
0.000613415 845.667 #DIV/0!

3637

0.000401178 10144.4 20568.53 2.02757

4.96863E-06 3376.48 7449.7
2.52914E-05 1772.8 4706.88
6.97349E-05 1753.38 3759.45

0.000270753 1333.65 3354.48

0.000127765 4491.43 1890.53

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|-------------|---------|-----------|---------|-------------|-------------|----------|
| 0.0016233 | 1186.3 | 2878.025 | 2.42605 | 8.66659E-05 | 875.8 | 2528.73 |
| 2.36519E-05 | 709.575 | 1570.1 | 2.21273 | 4.47697E-05 | 720.533 | 1622.95 |
| | | | | 3.56244E-06 | 963.325 | 2619.4 |
| | | | | 4.15855E-06 | 3495.23 | 9994.2 |
| | | | | 0.000130679 | 1945.6 | 5345.68 |
| | | | | 4.4884E-06 | 382.433 | 983.425 |
| | | | | 0.00382219 | 812.275 | 2223.6 |
| 0.00167278 | 340.55 | 772.15 | 2.26736 | 6.11156E-05 | 311.75 | 940.7 |
| | | | | 5.76427E-06 | 10641.1 | 21639.7 |
| 3.44305E-06 | 10361.1 | 34849.55 | 3.36349 | 2.14679E-09 | 12696.6 | 77559.8 |
| 1.60954E-05 | 7911.88 | 27086.425 | 3.42352 | 6.10872 | 1.8566E-12 | 7151.55 |
| | | | | 9.2955E-08 | 9618.2 | 53166.35 |
| | | | | 5.97666E-06 | 206.3 | 1805.025 |
| | | | | 8.74952 | 1.1765E-07 | 235.2 |
| | | | | 9.3237E-08 | #DIV/0! | 1044.025 |
| | | | | #DIV/0! | 1.30237E-10 | #DIV/0! |
| | | | | 1.30237E-10 | #DIV/0! | 3820.43 |
| | | | | 1.15656E-05 | 6993.93 | 3247.25 |
| | | | | -2.1538 | 4.5965E-06 | 7158.38 |
| | | | | | 6.58502E-05 | 3619.05 |
| | | | | | 6.15366E-05 | 1366.4 |
| | | | | | | 548.425 |
| | | | | | 0.000259198 | 2016.7 |
| | | | | | 1.52374E-07 | 23358 |
| | | | | | | 720 |
| | | | | | | 10478 |
| | | | | | 0.00315528 | 2807.73 |
| | | | | | | 1084.23 |

0.00238965 915.5 #DIV/0!

0.00101513 1269.88 481.8333 -2.63551 0.00225842 1342.75 544.075
2.35319E-06 2236.15 14828.13 6.6311 7.21158E-06 4440.63 26935
4.35398E-11 4714.3 32360.95 6.86442 9.19476E-10 8547.68 46645.7

7.84056E-07 #DIV/0! 2771.03

5.17256E-09 7091.95 14394.4

6.54994E-07 #DIV/0! 1800.325 #DIV/0! 9.52028E-06 #DIV/0! 1599.3
1.31465E-06 536.033 1491.8 2.78304 1.01302E-08 363.133 1521.03

7.87109E-05 2229.05 1104.53

0.00172771 #DIV/0! 2147.975 #DIV/0! 7.17139E-09 334.833 3561.75
1.75601E-09 635.333 5489.88
3.83324E-06 #DIV/0! 1381.07
0.00107072 #DIV/0! 1001.83

6.48626E-05 787.2 345.8

/// 100133739 /// 28396 /// 3492 /// 3493 /// 3494 /// 3495 /// 3500 /// 3501 /// 3502 /// 3507 /// 3509

2.05107E-09 599.967 2431.55 4.05281 2.75817E-12 #DIV/0! 1821.88
1.34102E-09 1146.5 4880.35 4.25674 2.7016E-10 #DIV/0! 3359.88
1.96681E-08 825.5 3683.275 4.46187 5.99167E-12 #DIV/0! 2519.2

| | | | | | | | | | | |
|-------------|---------|----------|----------|-------------|---------|----------|----------|-------------|---------|---------|
| | | | | | | | | 9.45212E-05 | #DIV/0! | 913.233 |
| 0.000123602 | 4486.68 | 1539.175 | -2.91499 | 7.08613E-08 | 20920.5 | 4921.575 | -4.25078 | 1.15374E-09 | 22995.1 | 3727.3 |
| | | | | 2.53517E-05 | 5836 | 983.725 | -5.93255 | 4.98913E-05 | 6156.6 | 983.15 |
| | | | | | | | | 0.00020679 | 2353.08 | 1171.25 |
| | | | | | | | | 0.000149396 | 1177 | #DIV/0! |
| | | | | 2.7858E-10 | 38813.5 | 13258.38 | -2.92747 | 1.28102E-12 | 46898.1 | 12258.2 |
| | | | | 2.53926E-09 | 29353.3 | 9634.175 | -3.04679 | 3.76651E-09 | 30740.9 | 10466.3 |

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|--|--|--|--|-------------|---------|----------|----------|-------------|------|---------|
| | | | | 6.54461E-06 | 5269.08 | 2291.1 | -2.2998 | 9.81619E-06 | 6110 | 2636.45 |
| | | | | 0.000157084 | 12860.8 | 6086.175 | -2.11311 | | | |

55219

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| | | | | | | | | 2.39076E-08 | 1533.55 | 610.4 |
| | | | | | | | | 7.88719E-09 | 1677 | 496.375 |

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|--|--|--|--|-----------|---------|---------|----------|-------------|---------|---------|
| | | | | 0.0024947 | 1307.35 | 598.925 | -2.18283 | 0.00189523 | 1694.15 | 782.925 |
| | | | | | | | | 1.06157E-05 | 1236.58 | 383.525 |

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|--|--|--|--|------------|--------|----------|--------|--|--|--|
| | | | | 0.00133459 | 885.55 | 1973.625 | 2.2287 | | | |
|--|--|--|--|------------|--------|----------|--------|--|--|--|

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|--|--|--|--|--|--|--|--|-------------|---------|---------|
| | | | | | | | | 1.07045E-06 | 3947.88 | 1859.33 |
|--|--|--|--|--|--|--|--|-------------|---------|---------|

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|-------------|--------|---------|---------|-------------|--------|----------|---------|-------------|---------|---------|
| 3.57358E-06 | 338.15 | 836.325 | 2.47324 | 2.59895E-12 | 239.7 | 2038.475 | 8.50428 | 1.45055E-13 | #DIV/0! | 1886.88 |
| 2.03032E-06 | 187.1 | 536.175 | 2.86571 | 1.36285E-07 | 189.25 | 1100.625 | 5.81572 | 8.13108E-09 | #DIV/0! | 1055.35 |

| | | | | | | | | | | |
|--|--|--|--|------------|-------|----------|---------|-------------|---------|---------|
| | | | | | | | | 7.62113E-08 | 387.95 | 1839.15 |
| | | | | | | | | 1.0026E-13 | 436.7 | 4375.2 |
| | | | | 1.3328E-11 | 295.3 | 1975.875 | 6.69108 | 3.8297E-14 | 625.725 | 6838 |
| | | | | | | | | 0.000478019 | 4870.73 | 2321.6 |
| | | | | | | | | 0.00113682 | 1231.83 | 392.95 |

55747

387680 /// 55747 /// 653450
387680 /// 55747 /// 653450
553450

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|------------|--------|----------|---------|-------------|---------|---------|
| 4.3655E-09 | 405.25 | 1111.825 | 2.74355 | 4.86142E-13 | 533.625 | 2208.58 |
| | | | | 8.79634E-07 | 1036.15 | 2639.13 |
| | | | | 2.12173E-05 | 7894.48 | 3751.18 |
| | | | | 1.08842E-08 | 1337.2 | 461.325 |

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|-------------|---------|----------|----------|-------------|--------|---------|
| 9.43618E-07 | 4127.38 | 1811.275 | -2.27871 | 5.37546E-07 | 5861.6 | 2479.93 |
| 4.34494E-06 | 8135.18 | 3741.05 | -2.17457 | 2.37884E-05 | 9169.5 | 4227.78 |

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|-------------|---------|---------|
| 1.64372E-07 | 2316.28 | 1072.55 |
|-------------|---------|---------|

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|-----------|--------|--------|---------|-------------|---------|---------|
| 0.0014352 | 472.95 | 1006.3 | 2.12771 | 1.94683E-05 | #DIV/0! | 744.225 |
|-----------|--------|--------|---------|-------------|---------|---------|

553820 /// 729533

| | | | | | | |
|-------------|---------|----------|----------|-------------|---------|---------|
| 8.70186E-08 | 3433.18 | 1160.975 | -2.95715 | 0.0018969 | 4171.05 | 2084.95 |
| | | | | 1.78412E-07 | 4156.08 | 1553.95 |

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|-------------|---------|-------|---------|-------------|---------|---------|
| 0.000121991 | #DIV/0! | 907.6 | #DIV/0! | 3.31872E-06 | #DIV/0! | 1129.35 |
|-------------|---------|-------|---------|-------------|---------|---------|

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|-------------|---------|-------|
| 1.80101E-05 | 298.867 | 707.3 |
|-------------|---------|-------|

/// 157693 /// 400728

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|-------------|---------|----------|----------|
| 1.34122E-08 | 8370.95 | 4165.025 | -2.00982 |
|-------------|---------|----------|----------|

7.10663E-05 562.2 1879.28

55893

1.35089E-07 #DIV/0! 1953.525 #DIV/0! 3.41064E-07 515.85 5797.33
9.29124E-08 #DIV/0! 2695.075 #DIV/0! 1.0342E-08 1018.4 7276.3

7.84128E-05 3588.1 7260.85 2.02359 4.20048E-05 3249 6830.2

7.46328E-06 2015.75 4336.48

1.32448E-07 1341.08 503.25

2.6383E-09 4665.03 1704.95 -2.73617 3.50399E-07 6901.13 3417.93

1.66588E-08 1232.23 380.925 -3.23482

2.64694E-06 1387.45 645.2333 -2.15031 0.00015212 2245.08 1056.08

1.11002E-07 2664.3 1280.55 -2.08059

0.00077517 15261.4 36541.1 2.39436 0.00334654 4148.98 18074.9

0.000112655 11256.4 31806

0.000123063 749.1 2154.55

0.000506051 497.2 1188.45

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0.00252287 1080.37 #DIV/0! #DIV/0!

3.79064E-07 11713.5 4560.68

56

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|-------------|---------|----------|----------|-------------|---------|---------|
| | | | | 0.00308908 | 289.9 | 904.575 |
| | | | | 1.52347E-08 | 1336.05 | 570.775 |
| 9.1654E-09 | 4203.78 | 9748.25 | 2.31893 | 1.44288E-11 | 3619.58 | 11534.6 |
| 0.000411085 | 3742.48 | 1850.775 | -2.02211 | 5.69985E-07 | 4711.28 | 1624.53 |
| 2.49109E-07 | #DIV/0! | 3575.5 | #DIV/0! | 1.50054E-12 | #DIV/0! | 5382.4 |
| | | | | 0.00413904 | 2223.68 | 1044.75 |

7628 /// 654466

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|-------------|---------|---------|----------|-------------|---------|---------|
| 2.74807E-06 | 1166.55 | 493.775 | -2.36251 | 0.000135167 | 1684.88 | 832.375 |
| 3.60034E-05 | 1262.03 | 506.1 | -2.49363 | 1.07043E-06 | 1464.93 | #DIV/0! |
| 8.56925E-05 | 1478.95 | 695.425 | -2.12669 | 0.000146872 | 2015.03 | 937.95 |

| | | | | | | |
|-------------|---------|----------|----------|-------------|---------|---------|
| 4.28731E-05 | 16058.8 | 5387.775 | -2.9806 | 4.63618E-10 | 15355.9 | 2557.3 |
| 0.00106639 | 25345.6 | 8263.35 | -3.06723 | 1.87967E-08 | 27402.4 | 3825.18 |

1.46607E-08 1837.8 714.5 -2.57215

| | | | | | | |
|-------------|---------|----------|---------|-------------|---------|---------|
| 3.07625E-10 | 2969.15 | 6953.125 | 2.34179 | 2.15353E-14 | 3339.48 | 11642.1 |
| | | | | 1.22839E-05 | 674.2 | 2616.2 |
| 3.90662E-08 | 3694.23 | 7878.55 | 2.13267 | 2.4564E-08 | 4796.43 | 10629.8 |
| | | | | 0.00170658 | #DIV/0! | 1701.48 |

2.34031E-05 1294.03 2898.9

0.000974556 10065.2 3867.775 -2.60233 4.20407E-05 11930.5 3806.15

0.00244827 1962.93 4036.6

0.00194471 446.6 991.325 2.21972 0.00173736 381.275 1117.18
0.000054484 625.5 1436.43

6.76573E-08 13942.4 3021.08

1.37599E-05 1393.85 598.2

2.75717E-08 4264.53 10353.85 2.4279 5.36975E-08 4322.48 10698.7

0.000037899 2740.68 5771.525 2.10588 4.94644E-09 3368.48 10968.9
3.8726E-08 3463.75 12251.3
0.000147064 6745.75 13558.33 2.00991 3.14518E-07 8071.8 22068.5
1.29979E-06 7156.93 14363.9 2.00699 1.47566E-10 7932.75 23691.3

/// 389177

0383 /// 284944

0.000205723 1208.78 413.967

1.03062E-05 3805.38 1662.83

/// 642477

140295 /// 728636

0.000374016 8000.5 3429.85 -2.33261

7.18408E-06 6518.83 2295.55

0.000127489 1095.63 439.5

0.00130782 1128.83 500.3333 -2.25615

0.000250606 6432.65 14056.25 2.18514

7.28797E-13 12593.4 40804.3

7.15829E-09 2172.93 8504.8

8.13572E-05 29618 59541.75 2.01032

8.87712E-11 9805.8 43550.2

2.77584E-06 3895.13 13708.8

0.00116261 1883.55 4445.48

0.000465011 267.825 757.5

0.000178903 #DIV/0! 1875.78

0.000487568 1360.38 3094.73

9.79915E-06 1533.18 3429.05

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|-------------|---------|----------|---------|-------------|---------|---------|
| 9.33574E-06 | 4040.88 | 14889.98 | 3.68484 | 2.6204E-07 | 3046.55 | 15324.8 |
| 5.5674E-07 | 2073.35 | 9897.975 | 4.7739 | 2.71064E-08 | 1505.58 | 10160.1 |
| 1.87125E-05 | 17409.9 | 41285.48 | 2.37138 | 8.10451E-05 | 15689 | 35026.2 |
| 0.000531601 | 6586.35 | 34368.43 | 5.21813 | 0.000108034 | 4335.68 | 29263.9 |

| | | | |
|-------------|---------|-----------|----------|
| 2.39977E-06 | 8061.63 | 3950.9 | -2.04045 |
| 3.99195E-06 | 25687 | 12381.275 | -2.07466 |

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|-------------|--------|---------|
| 0.000258714 | 1196.7 | 499.667 |
|-------------|--------|---------|

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|-------------|---------|--------|----------|-------------|---------|---------|
| 0.000174508 | 6277.58 | 735.7 | -8.53279 | 4.40529E-07 | 2303.03 | 867.675 |
| 8.8302E-09 | 2046.23 | 584.95 | -3.49812 | | | |

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|-------------|-----|--------|
| 0.000365181 | 629 | 2542.4 |
|-------------|-----|--------|

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| 0.00211907 | 575.5 | 2041.23 |
|------------|-------|---------|

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|-------------|---------|--------|----------|-------------|---------|---------|
| 4.14429E-06 | 14944.1 | 6188.7 | -2.41473 | 2.30998E-07 | 20738.8 | 7631.9 |
| 5.19157E-07 | 15124.1 | 4704.6 | -3.21475 | 3.79107E-06 | 19947.4 | 7685.95 |
| | | | | 3.13393E-08 | 33572 | 15308.3 |

7.35676E-07 31806 15826.08 -2.00972

0.000073053 39048.1 107309.9 2.74815 1.10423E-08 13423.8 82147.6

9.89032E-08 6577.13 2852.325 -2.30588 1.16567E-11 9348.38 2664.88
4.53547E-06 2655.1 1221.95
8.40539E-06 3051.98 1165.1 -2.6195

3766

0.000763598 1237.05 #DIV/0! #DIV/0! 0.000106318 974.45 407

6.65674E-06 8932.33 23347.38 2.61381 2.56089E-09 7464.4 33932.1
3.9973E-07 16762 43021.98 2.56664 7.27653E-10 14225.9 51041.1
5.53776E-08 6350.63 20609.2 3.24522 1.12257E-11 5516.93 30987.1
1.23786E-05 1171.58 4710.9

0.000219365 2500.43 5554.6

0.000512601 855.25 #DIV/0!

4.48937E-05 1581.48 712.075
0.000451252 857.9 382.3

0.00333591 41996.2 90396.4
0.00398479 41256 91080.9
0.000419597 35916.2 93055.8

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30

5.10544E-11 6911.23 21639.13 3.13101 2.13798E-18 4465.6 36956.4

0.00164863 14589.7 5977.25

3.8843E-07 23626.8 11227.5

3.34058E-05 852 242.95

0.000973708 4487.53 1345.73

1.38229E-06 2061.4 393.475

31488

31488

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0.00357211 537.3 1428.93

0.000299653 820.2 1778.05

79 /// 728226 /// 728441 /// 91227

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|-------------|---------|----------|----------|-------------|---------|---------|
| 1.64265E-05 | 1874.45 | 504.375 | -3.71638 | 5.54867E-06 | 2255.93 | 607.725 |
| 0.000132533 | 7115.58 | 2156.625 | -3.2994 | 0.000125088 | 7926.75 | 2332.98 |

| | | | | | | |
|-------------|---------|--------|---------|-------------|---------|-----|
| 0.000125701 | #DIV/0! | 1125.5 | #DIV/0! | 1.93073E-08 | #DIV/0! | 827 |
|-------------|---------|--------|---------|-------------|---------|-----|

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548593 /// 6818 /// 79008

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| 0.00177018 | 1514.13 | 747.275 | -2.0262 |
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| 6.28716E-09 | 5013.48 | 2058.2 |
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| 0.000308905 | 795.567 | #DIV/0! |
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| 0.00031331 | 19021.1 | 9464.675 | -2.00969 |
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| 2.47465E-13 | 9629.35 | 2666.35 |
|-------------|---------|---------|

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| 3.49347E-06 | 24554.2 | 8799.9 |
|-------------|---------|--------|

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| 2.48113E-08 | 9906.98 | 2829.58 |
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| 1.55746E-07 | 18453.7 | 6363.15 |
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| 3.26338E-05 | 15536.7 | 3689.2 |
|-------------|---------|--------|

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| 8.88195E-05 | 2084.75 | 994.35 | -2.0966 |
|-------------|---------|--------|---------|

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| 8.52744E-05 | 2128.1 | 1037.97 |
|-------------|--------|---------|

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| 1.63336E-05 | 1502.6 | 572.35 |
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| 8.57787E-07 | 1171.25 | 539.45 |
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0.000728618 1006.25 486.95

36724

1.77259E-08 4582.58 21500.15 4.69172

1.77171E-10 2346.2 17115.2

1.12372E-05 2436.7 875.525
0.00020721 3559.1 1710.05

0.000138941 10800.3 5024.825 -2.14939

1.34409E-06 13261.9 4813.55

0.00305672 12576.6 28132.8

0.000427394 1666.7 603.133

40270

0.000252605 715.125 271.767

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|-------------|--------|---------|----------|-------------|--------|---------|
| 0.00143487 | 629.25 | 296.175 | -2.12459 | 9.79406E-05 | 968.35 | 359.7 |
| 9.29795E-07 | 1947.2 | 5669 | 2.91136 | 5.74627E-05 | 2430.6 | 5555.35 |

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| 2.4214E-08 | 613.55 | 1564.5 |
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/// 2821

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|-------------|---------|----------|---------|-------------|---------|---------|
| 2.68695E-11 | 1716.13 | 10582.35 | 6.16642 | 4.18721E-17 | 1590.43 | 28902.5 |
|-------------|---------|----------|---------|-------------|---------|---------|

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| 0.00399459 | 201.4 | 1590.27 |
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| 1.41924E-07 | 25302.3 | 67085.03 | 2.65134 | 3.19379E-07 | 29879.1 | 75408 |
|-------------|---------|----------|---------|-------------|---------|-------|

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|-------------|---------|----------|----------|-------------|---------|---------|
| 1.08822E-05 | #DIV/0! | 734.8 | #DIV/0! | 8.26026E-07 | 1511.78 | 317.025 |
| 7.37838E-08 | 1297.6 | 258.2667 | -5.02426 | 5.10496E-07 | 1092.1 | 227.5 |
| 2.25648E-06 | 807.775 | 187.5667 | -4.3066 | | | |

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| 0.000206829 | 991.233 | #DIV/0! |
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| 2.55805E-05 | 4386.55 | 758.6 | | | | |
| 9.84618E-05 | 4190.63 | 761.125 | | | | |
| 0.00205341 | 580.375 | 1333.8 | 2.29817 | 0.0017875 | 405.1 | 1079.6 |
| | | | | 0.00419219 | 627.05 | #DIV/0! |

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|------------|---------|---------|----------|-------------|---------|--------|
| 0.00018244 | 1391 | 275 | -5.05818 | 3.37826E-06 | 1282.63 | 268.35 |
| 0.0015688 | #DIV/0! | 1162.75 | #DIV/0! | | | |

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|-------------|--------|--------|----------|-------------|--------|--------|
| 6.04715E-06 | 2080.9 | 803.05 | -2.59125 | 5.52246E-06 | 3161.8 | 1407.1 |
|-------------|--------|--------|----------|-------------|--------|--------|

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|-------------|---------|----------|---------|-------------|---------|---------|
| 0.000138457 | 703.175 | #DIV/0! | | | | |
| 0.00109435 | 510.375 | #DIV/0! | | | | |
| 0.000454993 | 3151.3 | 16683.65 | 5.29421 | 3.60336E-05 | 1058.77 | 6724.15 |

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| 5.92801E-07 | 685.525 | #DIV/0! | #DIV/0! | 2.76261E-05 | 1200.85 | #DIV/0! |
| | | | | 5.67373E-05 | 615.967 | #DIV/0! |

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|-------------|---------|----------|----------|-------------|---------|---------|
| 3.15692E-11 | 4125.55 | 13234.93 | 3.20804 | 4.68059E-10 | 3389.28 | 9489.93 |
| 6.81226E-07 | 2280.18 | 6680.35 | 2.92975 | 0.000891679 | 1707.85 | 3479.9 |
| 8.29643E-07 | 2968.7 | 1201.45 | -2.47093 | 7.98942E-09 | 4061.15 | 1275.9 |

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| 0.000652512 | #DIV/0! | 880.8 |
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| 1.32056E-05 | 1953.08 | 13977.9 |
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| 9.57728E-07 | 1838.58 | 4303.95 |
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| 5.4986E-07 | 2956.15 | 6116.175 | 2.06897 |
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| 4.11119E-07 | 954.667 | 2467.1 | 2.58425 | 5.30723E-08 | 968.6 | 2641.18 |
|-------------|---------|--------|---------|-------------|-------|---------|

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| 3.41482E-08 | 2219.43 | 928.5 |
|-------------|---------|-------|

/// 2969 /// 2970

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|-------------|---------|----------|----------|-------------|---------|---------|
| 7.49723E-06 | 3126.3 | 1382.425 | -2.26146 | 0.000100299 | 34785.6 | 17292.8 |
| 0.00140959 | 2803.38 | 1364.975 | -2.05379 | 4.7452E-06 | 3899.25 | 1903.25 |
| | | | | 0.000110711 | 3481.25 | 1718.03 |
| 3.17244E-07 | 7978.7 | 18498.73 | 2.31851 | 3.41187E-06 | 5973.6 | 12823.6 |

1.43719E-05 10610 21823.95 2.05692 4.53036E-08 8269.45 23518.7

/// 100134401 /// 653188

1.15112E-10 625.5 2307.35 3.68881 6.15294E-05 #DIV/0! 1534.2
2.93589E-05 4109.98 10810.78 2.63037 1.83761E-11 653.2 2740.1
0.000323215 362.775 1077.175 2.96926 7.52357E-08 3135.03 12554.8

2.81109E-10 10106.5 4948.35
1.87763E-08 3095.28 1457.4

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8.78724E-07 5908.18 2920.3

7.09744E-15 10828.2 51463.48 4.75274 1.92589E-12 13275.8 47047.8
/// 144983 /// 3178 /// 391670 /// 402112 /// 440125 /// 642817 /// 643033 /// 644037 /// 645001 /// 664709 /// 664721 /// 728170 /// 728732 /// 728733
/// 120364 /// 144983 /// 3178 /// 391670 /// 402112 /// 440125 /// 642817 /// 643033 /// 644037 /// 645001 /// 664709 /// 728170 /// 728643 /// 728732

0.000254582 1504.45 3457.975 2.2985
6.73798E-07 6873.83 2429 -2.8299 1.22196E-05 7395.93 3307.78

0.000321502 910.9 445.7 -2.04375
0.000174675 1087.73 473.1 -2.29914
6.57606E-09 9755.48 4658.9
0.000126335 1448.7 2960.55
0.00415896 #DIV/0! 1406.6

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|-------------|---------|----------|----------|-------------|---------|----------|----------|
| 1.77141E-11 | 3787.95 | 1159.325 | -3.26738 | 8.51627E-09 | 6507.65 | 2731.15 | |
| 7.03518E-12 | 2189.25 | 604.1 | -3.62399 | 3.73651E-09 | 4903.33 | 1697.83 | |
| | | | | 5.16785E-05 | 1629.7 | 729.4 | |
| 4.15632E-06 | 1470.25 | 726.775 | -2.02298 | 6.58164E-06 | 1001.43 | 486 | |
| | | | | 1.32276E-06 | 855.75 | 361.075 | |
| 4.50906E-05 | 609.175 | 284.05 | -2.1446 | | | | |
| | | | | 0.00184359 | 1140.08 | 2318.93 | |
| 2.3706E-06 | 4182.5 | 1714.3 | -2.43977 | 1.82241E-10 | 9914.55 | 2436.6 | -4.06901 |
| 1.19422E-06 | 6970.25 | 1934.25 | -3.60359 | 2.76739E-08 | 11700.7 | 2634.5 | -4.44133 |
| | | | | 6.05845E-13 | 8751.03 | 1513.35 | |
| | | | | 9.69887E-11 | 11457.8 | 1569.2 | |
| 6.345E-09 | 797.5 | 25160.8 | 31.5496 | 3.06995E-10 | 621.9 | 46399.65 | 74.6095 |
| 8.78695E-17 | 485.125 | 24859.7 | 51.2439 | 2.20785E-18 | 572.767 | 48841.9 | 85.2736 |
| | | | | 2.45762E-11 | #DIV/0! | 66156.9 | |
| | | | | 3.18059E-19 | 477.467 | 58214.3 | |
| | | | | 6.04416E-05 | 16002.9 | 7148.13 | |
| | | | | 0.000262791 | 15852.7 | 7812.13 | |
| 2.32418E-07 | 5185.93 | 2207 | -2.34976 | 5.99775E-06 | 6407 | 2999.98 | |
| 0.00224511 | 2774.6 | 1274.8 | -2.1765 | 1.80182E-05 | 6030.88 | 1555.95 | |

43 /// 8344 /// 8346 /// 8347

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0.0018863 2443.4 1053.6 -2.3191

554313 /// 8294 /// 8359 /// 8360 /// 8361 /// 8362 /// 8363 /// 8364 /// 8365 /// 8366 /// 8367 /// 8368 /// 8370

554313 /// 8294 /// 8359 /// 8360 /// 8361 /// 8362 /// 8363 /// 8364 /// 8365 /// 8366 /// 8367 /// 8368 /// 8370

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3.87269E-07 6940.45 19948.475 2.87423 1.29486E-14 4898.9 45342.48 9.25564 3.39493E-14 5105.33 45857.6

/// 100133583 /// 100133661 /// 100133811 /// 3119 /// 3120 /// 3123 /// 3124 /// 3125 /// 3126 /// 3127 /// 388567 /// 6036 /// 730415 /// 731247

2.23741E-06 3196.38 1089.2

0.00248995 4326.83 9948.03

3.26297E-07 2730.85 1062.5

1.8888E-06 980 #DIV/0!

1.72018E-05 1625.63 3475.23
1.67598E-05 4154.1 2040.48

3204

2.60346E-08 848.025 1703.85

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8.09361E-07 5174.93 28299.3
1.72615E-06 18820 59810.1
0.0025039 988.4 139
0.00222348 1506.05 #DIV/0!
0.00341244 976.025 163.9
4.3892E-07 1317.63 3449.2

4.88649E-05 2659.2 6109.925 2.29766 1.05655E-06 2005.08 5656.38

0.000379838 550.4 196.4 -2.80244

9.31711E-10 3087.1 13586.5

36614

0.00146826 4646.33 13894.6

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J4
J4

5.98675E-05 16606.5 6695.4
2.69004E-05 6808.53 2080.03

0.000146284 12966.9 26801.3

5.40878E-07 12714.1 5570.35 -2.28246 1.898E-09 9534.55 3210.48
6.20225E-07 10730.9 4659.4 -2.30306 5.55633E-09 7808.88 2836.03
8.00745E-07 13365.9 6125.05 -2.18216 1.20405E-08 9793.5 3737.33
8.39045E-07 9399.65 3909.7 -2.40419 3.95291E-08 7618.05 2720.05
3.66878E-05 11614.4 4392.525 -2.64412

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|-------------|---------|---------|----------|-------------|---------|---------|
| 3.63351E-06 | 5242.83 | 2301.35 | -2.27815 | 2.70982E-09 | 3046.45 | 1068.83 |
| | | | | 9.41387E-09 | 7101.93 | 2273.18 |

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|------------|---------|----------|----------|-------------|---------|---------|
| 5.6237E-06 | 16970.2 | 7841.025 | -2.16428 | 4.64362E-08 | 1547.38 | 634.675 |
| | | | | 1.4582E-07 | 18766.4 | 7393.48 |

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|--|--|--|--|-------------|---------|---------|
| | | | | 1.37342E-07 | 2834.83 | 1175.53 |
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|-------------|---------|--------|---------|-------------|---------|---------|
| 1.19633E-05 | 9121.43 | 4081.9 | -2.2346 | 2.10766E-05 | 11860.8 | 5206.23 |
|-------------|---------|--------|---------|-------------|---------|---------|

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|-------------|---------|----------|---------|------------|--------|-------|
| 2.23427E-07 | 5500.48 | 18780.33 | 3.41431 | 7.4639E-08 | 5154.7 | 18494 |
|-------------|---------|----------|---------|------------|--------|-------|

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|-------------|---------|----------|---------|-------------|---------|---------|
| 1.67405E-08 | 11323.4 | 36905.03 | 3.25918 | 2.05283E-09 | 8835.13 | 33447.6 |
|-------------|---------|----------|---------|-------------|---------|---------|

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|-------------|---------|----------|---------|-------------|--------|--------|
| 1.05912E-06 | 2461.98 | 7519.225 | 3.05414 | 4.42836E-07 | 2085.1 | 6517.4 |
|-------------|---------|----------|---------|-------------|--------|--------|

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|--|--|--|--|-------------|-------|---------|
| | | | | 0.000379438 | 17160 | 6707.45 |
|--|--|--|--|-------------|-------|---------|

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|-------------|---------|--------|----------|--|--|--|
| 2.31783E-06 | 1732.13 | 790.85 | -2.19021 | | | |
|-------------|---------|--------|----------|--|--|--|

5.98838E-05 45378 97407.48 2.14658 3.04093E-05 36374.6 80829.5

2.86676E-05 12837.7 5432.175 -2.36327

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302

535 /// 3538

7.89502E-06 1060.88 252.6

1.10392E-06 617.375 225.15 -2.74206
0.000384914 1126.83 520.7 -2.16406

0.000338855 6873.68 3311.7
1.65372E-08 1092.28 257.45
1.88601E-06 1560.3 547.733

1.06258E-05 10646.5 4604.2 -2.31233
1.44165E-05 14797.2 7203.25 -2.05423
6.18915E-05 15537.6 7693.7 -2.01952

2.36109E-05 7912.58 2831.88

0.000128614 2905.45 18523.525 6.37544
0.000123939 40655.7 87341.25 2.14832

0.0012066 3496.55 10198.53 2.91674
0.00188844 455.475 974.3 2.13909
1.02917E-09 18875.6 56134.1 2.97389
3.31498E-09 20504.9 66876.2 3.26147

3.37028E-08 2327.45 19078.5
8.52441E-05 555.725 1640.73
9.15534E-08 484.667 4290.15
2.69262E-07 8655.2 21057.3
5.35178E-07 9513.6 26266.2

2.9147E-06 9847.85 23646.7 2.4012

5.09585E-05 12056.8 24183.3
0.000117046 1191.6 2493.23
0.000406076 612.825 2764.08

0.000116461 15667.1 46772.8

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|-------------|---------|----------|----------|-------------|---------|---------|
| 1.14969E-08 | 6271.08 | 1266.725 | -4.95062 | 1.71894E-11 | 14734.6 | 1921.23 |
| | | | | 7.05539E-08 | 568.325 | 163.65 |
| 0.000284885 | 365.15 | 802.95 | 2.19896 | | | |

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|-------------|--------|--------|--|--|--|--|
| 1.07408E-07 | 3058.3 | 6750.3 | | | | |
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34289

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|-------------|---------|---------|---------|--|--|--|
| 2.82352E-05 | 1051.37 | #DIV/0! | #DIV/0! | | | |
|-------------|---------|---------|---------|--|--|--|

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|-------------|-------|----------|---------|------------|---------|---------|
| 0.000155257 | 12878 | 27628.03 | 2.14537 | 0.00165739 | 1595.48 | 4615.35 |
|-------------|-------|----------|---------|------------|---------|---------|

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| 0.00315746 | 667.75 | 315.7 | | | | |
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| 2.43127E-07 | 3334.73 | 1129.65 | | | | |
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4538 /// 4670 /// 55827
4538 /// 55827

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| 0.00324759 | 8953.53 | 24720.2 | | | | |
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|-------------|---------|----------|---------|-------------|---------|---------|
| 3.10425E-06 | 10846.8 | 34195.85 | 3.15262 | 3.12445E-08 | 5119.73 | 23252 |
| | | | | 0.00161577 | 507.3 | 2108.63 |
| | | | | 0.000014634 | 2844.05 | 12650.2 |

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|-------------|-------------|-----------|----------|-------------|-------------|----------|---------|
| | 0.000164772 | 1841.53 | 4365.475 | 2.37058 | 1.99294E-07 | 1088.73 | 4168.65 |
| | | | | | 0.000212362 | 1229.65 | 482.867 |
| | 6.62353E-11 | 7208.75 | 20773.2 | 2.88166 | 1.42427E-08 | 8102.83 | 18233.4 |
| | 3.55577E-08 | 6513.5 | 20515.03 | 3.14962 | 1.05978E-05 | 8880.65 | 22104.2 |
| 6.64201E-08 | 9464.33 | 20010.575 | 2.11432 | 1.62901E-11 | 6277.45 | 17967.08 | 2.86216 |
| | | | | | 1.35082E-11 | 5492.73 | 14866 |
| | | | | | 5.21722E-07 | 18671.3 | 8586.25 |

5072

0.000197043 3279.28 1617.23

57461

0.0036241 1416.9 577.25

0.000659991 724.7 309.575

0.00210556 265.9 612.65

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|-------------|---------|-----------|---------|-------------|-------|----------|---------|-------------|---------|---------|
| | | | | | | | | 4.77368E-08 | 3975.55 | 12642.8 |
| 5.80557E-07 | 13294.1 | 31580.825 | 2.37556 | 6.70761E-10 | 17316 | 58651.08 | 3.38711 | 1.95807E-08 | 22347.2 | 62586.9 |

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|-------------|---------|---------|
| 0.000879674 | 5036.73 | 10975.8 |
| 5.55013E-05 | 14829.8 | 33218.2 |

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|-------------|---------|---------|---------|-------------|---------|---------|
| | | | | 3.55991E-06 | 781 | 2648.53 |
| 4.22958E-05 | #DIV/0! | 637.625 | #DIV/0! | 0.000350395 | #DIV/0! | 825.775 |
| 0.000248739 | 322.267 | 683.475 | 2.12084 | 4.11441E-06 | 267.167 | 929.225 |
| 5.14892E-07 | #DIV/0! | 821 | #DIV/0! | 0.000253826 | #DIV/0! | 858.025 |

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|-------------|---------|---------|-------|-------------|---------|----------|---------|-------------|---------|---------|
| 0.000168192 | 8455.28 | 17037.4 | 2.015 | 1.93333E-06 | 4165.35 | 10654.43 | 2.55787 | 2.1227E-07 | 2934.6 | 9095.23 |
| | | | | 5.49761E-06 | 13928.4 | 28029.7 | 2.01241 | 1.1453E-07 | 9525.3 | 23480.4 |
| | | | | 0.00100712 | 1535.33 | 3089.05 | 2.01198 | | | |
| | | | | 0.00131072 | 607.4 | 1706.075 | 2.80882 | 0.000147114 | 610.775 | 2008.68 |
| | | | | | | | | 0.00048127 | 12473.7 | 27355.5 |

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|-------------|--------|---------|----------|
| 9.87214E-05 | 590.95 | 261.925 | -2.25618 |
|-------------|--------|---------|----------|

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| 0.00298726 | 1801.08 | 3961.23 |
|------------|---------|---------|

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| 6.16657E-05 | 5974.63 | 2566.8 | -2.32766 |
| 7.82062E-06 | 4878.53 | 1891.05 | -2.5798 |

/// 3772

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|------------|---------|---------|
| 0.00001189 | 10521.6 | 25027.7 |
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1.53624E-05 2047.9 640

0.0011591 #DIV/0! 732.45 #DIV/0!
4.66137E-05 17990.7 6875.475 -2.61665
1.77382E-05 10072.8 3711.05 -2.71426

4.64646E-06 20606.6 6998.3
2.17123E-06 12233 4326.08

3.48815E-07 3224.73 1476.15

0.000477731 784.425 #DIV/0!

0.0018527 2249.13 969.1 -2.32084

4.63011E-05 773.375 218.967
1.51958E-07 1566.08 334.1

1.51465E-05 971.475 424.6

5.95477E-07 3391.53 1544.3

4.80046E-05 724.233 264 -2.74331

0.00258187 567.4 165.9

47735

0.000147915 2186.03 #DIV/0! #DIV/0!

2.20768E-07 1974.43 830.125

/// 149013 /// 200030 /// 25832 /// 284565 /// 400818 /// 440670 /// 55672 /// 728841 /// 728912 /// 728936 /// 84224
/// 149013 /// 200030 /// 25832 /// 284565 /// 400818 /// 440670 /// 55672 /// 728841 /// 728912 /// 728936 /// 84224
/// 149013 /// 200030 /// 25832 /// 284565 /// 400818 /// 440670 /// 55672 /// 728841 /// 728912 /// 728936

9.43318E-05 21209.2 9854.675 -2.15219

7.83572E-06 6577.18 2896.28

| | | | | | | | | | | | |
|-------------|-------|-----------|---------|-------------|---------|----------|----------|--|-------------|---------|---------|
| | | | | 0.000205115 | 473.575 | 959.15 | 2.02534 | | 2.88693E-08 | 705.3 | 2163.8 |
| | | | | 2.59588E-05 | 1042.68 | 486.4 | -2.14366 | | 6.85174E-06 | 600.825 | 1835.33 |
| | | | | | | | | | 6.63123E-07 | 2906.35 | 1318.45 |
| 0.000036802 | 831.8 | 392.26667 | -2.1205 | 0.00031215 | 1136.38 | 546.975 | -2.07756 | | | | |
| | | | | | | | | | 1.1248E-06 | 8782.43 | 3623.43 |
| | | | | | | | | | 3.08084E-06 | 4895.23 | 2132.83 |
| | | | | | | | | | 8.05627E-06 | 2920.98 | 1055.33 |
| | | | | | | | | | 0.000267296 | 1109.15 | 2434.4 |
| | | | | | | | | | 1.57938E-10 | 3249.5 | 490.45 |
| | | | | 1.83911E-11 | 3627.88 | 28978.05 | 7.98761 | | 2.76507E-14 | 1617.05 | 25282.5 |
| | | | | | | | | | 9.94447E-10 | 14988.5 | 4790.5 |
| | | | | | | | | | 0.00034389 | 1637.48 | 626.667 |

1.06121E-06 1727.93 622.55 -2.77556

0.000467924 790.9 329.425

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4.73384E-09 2211.48 864.05

22

302

3860

3860

9.7025E-07 4482.65 2018.53

2.47263E-08 17010.6 7904.5

0.000194107 3052.18 1108.7

0.0042622 624.075 #DIV/0!

7335

9.44245E-05 380.3 950.9

0.000283317 6430.55 24385.78 3.79218

3.18687E-07 1022.35 8570.65

| | | | | | | | | | | | |
|-------------|---------|-----------|---------|-------------|---------|----------|----------|--|-------------|---------|---------|
| | | | | | | | | | 0.00196259 | 628.8 | 1385.48 |
| | | | | | | | | | 1.44276E-07 | 14398.8 | 6017.13 |
| | | | | | | | | | | | |
| | | | | | | | | | 1.62539E-06 | 1518.1 | 662.2 |
| | | | | | | | | | | | |
| | | | | 0.000135056 | 6123.18 | 12885.2 | 2.10433 | | 0.000105692 | 4730.2 | 10129.6 |
| | | | | | | | | | 1.04807E-05 | 3349.33 | 9732.1 |
| | | | | | | | | | 1.55035E-05 | 33416.2 | 67751.7 |
| | | | | | | | | | 3.49915E-09 | 844.9 | 2595.48 |
| 0.0002036 | 25192.6 | 78741.825 | 3.12559 | 8.21845E-06 | 26729.8 | 113200.2 | 4.23498 | | 9.12891E-08 | 15063.1 | 96632 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | 1.21403E-06 | 226.2 | 4190.73 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | 0.00016419 | 24135.9 | 65138.2 |
| 3.86247E-10 | 1150.28 | 3377.925 | 2.93662 | 6.3316E-16 | 1649 | 9775.35 | 5.92805 | | 4.36784E-15 | 2049.58 | 11499.7 |
| 4.02012E-09 | 1710.98 | 4188.85 | 2.44822 | 1.64728E-15 | 2015.75 | 10381.48 | 5.15018 | | 2.91485E-18 | 2338.18 | 18371.1 |
| 8.21067E-08 | 840.525 | 2113.4 | 2.51438 | 9.62121E-14 | 1146.08 | 6156.125 | 5.37149 | | 2.03133E-14 | 1288.28 | 7718.65 |
| 4.31751E-06 | 1843.53 | 4293.45 | 2.32894 | 1.09195E-13 | 1908.95 | 13214.8 | 6.92255 | | 2.15328E-16 | 2281.33 | 25369.5 |
| 0.000001664 | 1208.43 | 2964.8 | 2.45344 | 4.652E-13 | 1230.33 | 8326.875 | 6.76803 | | 2.04629E-15 | 1785.55 | 17453.8 |
| | | | | 5.30705E-10 | 285.825 | 1210.975 | 4.23677 | | 2.71508E-05 | 442.775 | 973.4 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | 1.06052E-05 | 740 | 4849.65 | 6.55358 | | 2.98817E-09 | 442.8 | 5432.15 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | 8.18466E-06 | 6477.38 | 1843.55 | -3.51353 | | 1.21068E-07 | 11774.7 | 2580.2 |
| | | | | 6.45655E-05 | 1362.33 | 496.1333 | -2.74588 | | 0.000173766 | 2636.43 | 667.775 |

1.78558E-06 5253.4 2465 -2.1312

1.24329E-07 3914.63 1608.425 -2.43383 0.00212098 253.4 532.3
5.96242E-07 4212.48 1888.5

2.53283E-06 14862 31862.55 2.1439 8.81087E-05 4724.45 10426.1
0.000185937 26467.7 55640.13 2.10219 2.39198E-09 9368.1 42038.7
0.000146256 14390.5 30241.1 2.10146 2.16294E-08 6616.3 24811
1.67289E-05 514.875 1974.925 3.83574 4.50755E-07 206.433 1371.03
1.11401E-07 402.925 1428.825 3.54613 2.72776E-07 256.4 792.125
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9.54838E-05 1143.78 416.9 -2.74352
0.000516043 1653.75 825.025 -2.00448

2.82227E-05 4926.93 1773.7 -2.77777
3.18196E-05 5425.18 2397.05 -2.26327

/// 9883
/// 9883

3.05883E-10 2374.93 1081.55

131691 /// 202227 /// 256374 /// 342541 /// 391532 /// 402644 /// 439953 /// 440063 /// 5478 /// 643997 /// 654188

0.000872318 1336.15 649.5 -2.0572

7.37983E-09 3512.73 1398.725 -2.51138 3.60759E-09 4734.85 1694.43

084

5.18646E-05 2977.23 1340.325 -2.22127

0.000227853 464.65 1026.65 2.20951 3.39695E-06 827.675 2363.78

3.42236E-08 466.275 5364.875 11.5058 1.34499E-09 370.675 6030.9

5371

285596 /// 653316

255812 /// 727956

9.64665E-06 2580.33 1268.78

/// 23117 /// 283846 /// 348162 /// 440345 /// 440350 /// 641298 /// 642799 /// 729602 /// 729978 /// 730153

0866

5.76795E-05 256.125 1105.35 4.31567 5.14158E-06 236.1 1194.03

5.54604E-07 1604.95 718.5

0.000354114 619.8 #DIV/0! #DIV/0!

| | | | | | | |
|-------------|---------|----------|---------|-------------|---------|--------|
| 9.89077E-06 | #DIV/0! | 1137.033 | #DIV/0! | 0.000438636 | 547.8 | 109.7 |
| | | | | 1.74287E-05 | #DIV/0! | 1766.8 |

285878

| | | | |
|-------------|---------|----------|----------|
| 6.14043E-05 | 3489.63 | 1541.125 | -2.26434 |
|-------------|---------|----------|----------|

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|-------------|---------|---------|----------|-------------|---------|---------|
| 1.00974E-05 | 1609.58 | 701.15 | -2.29562 | 1.69828E-06 | 1664.35 | 728 |
| 3.68171E-05 | 1541.9 | 720.675 | -2.13952 | 0.000143827 | 2440.75 | 1140.83 |

41315 /// 5042 /// 652607

3921 /// 653162 /// 730029

| | | | | | | |
|-------------|------|----------|---------|-------------|---------|---------|
| | | | | 1.57794E-07 | 4602.8 | 1372.15 |
| | | | | 9.74221E-05 | 2214.43 | 738.7 |
| 3.51316E-06 | 7256 | 3188.325 | -2.2758 | 2.18255E-06 | 10142.6 | 4684.5 |

/// 389831

/// 390183 /// 442162 /// 6191
5142

402483 /// 55251 /// 642780 /// 643670 /// 728105 /// 728323 4.09542E-05 1634.1 808.95

| | | | | | | |
|-------------|---------|----------|---------|-------------|---------|---------|
| 8.57989E-10 | 9230.65 | 19685.73 | 2.13265 | 7.69847E-14 | 1668.93 | 6910.05 |
| 1.31887E-06 | 9413.38 | 21094.7 | 2.24093 | 1.36573E-16 | 5366.18 | 21432.4 |
| | | | | 1.18852E-13 | 5611.75 | 29671.4 |

542361 9.65628E-06 1646.33 817.225
/// 100133666 /// 440104

40345 /// 440354 /// 595101 /// 641298 /// 728423 /// 729513

4508

0.00222974 151.1 758 5.01655

0.000793724 654.2 1637.9 2.50367

0.000308792 672.65 265.4667 -2.53384 3.87184E-05 1220.03 287.025

1.43921E-06 3126 968.65

/// 100170646 /// 100187701 /// 643955 /// 90827

0.000425115 568.967 242.5

0.000170009 2527.38 1075.8 -2.3493 1.97522E-05 4166.25 1516.5 -2.74728 6.17432E-05 4610.48 1870.05

3287
553192

0.000126994 781.45 371.725

5175

0.000540151 470.267 1062.23

/// 100142659 /// 441294

1.17106E-05 2659.38 1263.05 -2.10552 3.39592E-08 4966.55 1645.6
0.00190478 1368.65 596.5 -2.29447 7.71358E-05 2799.08 883.05

/// 100130892 /// 100131085 /// 388401 /// 441896 /// 6129 /// 641900 /// 648000 /// 728380 /// 728843

6.03621E-07 4530.25 1562.88

4.51307E-07 2172.83 6165.18

3.35867E-06 785.7 383.125

/// 149013 /// 200030 /// 25832 /// 284565 /// 400818 /// 440670 /// 55672 /// 728841 /// 728912 /// 728936 /// 84224

06 /// 3135 /// 3136 /// 3137 /// 649853

728116

0432

0432

728

31602

06610

2.46369E-05 1086.65 480.7

7.90803E-05 #DIV/0! 1264.7 #DIV/0! 2.95712E-09 #DIV/0! 2344.325 #DIV/0! 1.55713E-06 644.05 3469.55

9.01868E-08 15174.7 6651.35 -2.28145 1.07217E-09 20350.7 7224.4
1.77818E-06 7058.48 3316.33

1.14556E-05 19154.2 9246.5 -2.07151

2.08242E-09 7316.4 2041.58

0884

0.00189723 6007.85 2837.125 -2.11758

0.00248754 1131.7 2269.033 2.00498
0.000228349 1864.9 902.075 -2.06734

0.0001948 #DIV/0! 1263.27

0.0013832 1024.3 427.5
0.00217533 36871.3 17701.2

0.00246065 989.775 2309.33

0.00058876 #DIV/0! 1434.8 #DIV/0!

0.000387411 3626.68 1449.9 -2.50133

0.00207936 2935.15 1300.1

9.87996E-06 10201.8 2873.43

1.86994E-10 2580.7 843.05

0.000228667 1425.33 659.775 -2.16032

1.57047E-05 1906 815.1

4.98049E-05 #DIV/0! 1072.25

0.000024069 2410.43 1016.15

0.000155652 24462.1 59204.825 2.42027

1.14183E-06 2835.13 8012.65 2.8262
1.13836E-05 13255.4 38863.73 2.93192

1.59976E-06 3072.38 9988.4
9.26321E-07 13975.4 50339.5

| | | |
|-------------|---------|---------|
| 3.83021E-07 | 2246.25 | 934.525 |
| 2.76592E-08 | 2924.98 | 1110.5 |
| 7.96799E-07 | 1701.43 | 592.725 |

| | | |
|-------------|--------|---------|
| 6.75442E-08 | 2070.1 | 716.475 |
|-------------|--------|---------|

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|-------------|---------|----------|--------|-------------|---------|-------|
| 1.02918E-07 | 10285.7 | 27408.33 | 2.6647 | 1.25245E-07 | 7230.65 | 19550 |
|-------------|---------|----------|--------|-------------|---------|-------|

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|-------------|--------|--------|----------|
| 8.52239E-06 | 2458.8 | 1211.9 | -2.02888 |
|-------------|--------|--------|----------|

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|-------------|---------|----------|----------|-------------|---------|---------|
| 1.94151E-05 | 3194.48 | 1458.475 | -2.19028 | 7.07467E-05 | 9822.1 | 4495.6 |
| 1.75222E-05 | 7144.1 | 2823.6 | -2.53014 | 1.97622E-09 | 5315.73 | 1900.83 |

| | | | | | | |
|-------------|---------|----------|---------|-------------|---------|---------|
| 1.54619E-06 | 18323.2 | 49009.88 | 2.67474 | 5.14777E-05 | 12605.5 | 28044.4 |
| 0.000735582 | 2795.63 | 7593.625 | 2.71625 | | | |

| | | | | | | |
|-------------|---------|-------|----------|-------------|---------|---------|
| | | | | 3.29551E-05 | 7152.68 | 14550.9 |
| | | | | 6.00927E-06 | 3323.58 | 7203 |
| | | | | 1.52607E-07 | 10802.9 | 25131.6 |
| 1.20801E-05 | 1488.63 | 482.8 | -3.08332 | 1.22651E-06 | 1510.75 | #DIV/0! |

| | | | | | | |
|-------------|---------|----------|---------|-------------|---------|---------|
| 3.71621E-07 | 5082.85 | 17161.65 | 3.37638 | 1.56697E-05 | 1646.38 | 763.833 |
| 9.57567E-07 | 377.95 | 1272.175 | 3.36599 | 5.21908E-10 | 3955.95 | 22740 |
| 0.000150336 | #DIV/0! | 889.9667 | #DIV/0! | 0.000275395 | 547.875 | 1386.18 |

| | | | | | | |
|-------------|---------|---------|----------|-------------|---------|---------|
| 2.91814E-05 | 6884.18 | 3413.35 | -2.01684 | 2.90628E-07 | 11573.6 | 4874.73 |
|-------------|---------|---------|----------|-------------|---------|---------|

/// 375449

0.000137544 4049.35 1491.8 -2.71441
0.000554582 27227.8 12975.45 -2.09841

1.46023E-07 2203.68 791.7

0.000492381 6068.18 2970.48

8.1715E-06 329.2 815.075

6.33874E-09 8645.63 2790.6 -3.09812
5.96987E-10 13115.7 4718.675 -2.77952
2.289E-07 5713.98 2055.925 -2.77927

/// 4207 /// 729991

| | | | | | | |
|-------------|---------|----------|----------|-------------|---------|---------|
| 0.00109171 | 18927.9 | 7023.25 | -2.69503 | 3.69464E-05 | 21615.1 | 5449.9 |
| 0.000134177 | 5414.73 | 1895.375 | -2.85681 | 5.39004E-06 | 5798.23 | 1392.4 |
| 0.00214846 | 2392.6 | 1074.8 | -2.22609 | 2.02435E-05 | 3542.53 | 1046.15 |

9.33623E-08 1047.25 #DIV/0!

31602

| | | | | | | |
|-------------|---------|---------|----------|-------------|---------|--------|
| | | | | 3.99386E-06 | 1521.53 | 702.2 |
| 0.000171096 | 475.375 | 1117.75 | 2.3513 | 3.12308E-08 | 347.45 | 1515.9 |
| 8.75562E-06 | 1166.7 | 399.25 | -2.92223 | 2.5889E-10 | 2474.73 | 467 |

| | | | | | | | | | | |
|-------------|---------|-----------|---------|------------|---------|----------|---------|-------------|---------|---------|
| 1.29337E-12 | 5688.75 | 11970.775 | 2.10429 | 2.9867E-13 | 8203.75 | 17137.88 | 2.08903 | 4.60669E-05 | 2707.28 | 1311.45 |
| | | | | | | | | 5.89173E-16 | 5900.4 | 15462 |
| | | | | | | | | 0.00163313 | 1034.65 | 440.4 |

33552

| | | | | | | |
|-------------|---------|----------|----------|-------------|---------|---------|
| 4.48374E-06 | 3536.15 | 1636.675 | -2.16057 | | | |
| 0.000822878 | 808.3 | 1950.65 | 2.41327 | 4.13707E-05 | #DIV/0! | 1399.25 |

3972

| | | | | | | |
|-------------|---------|----------|---------|-------------|---------|---------|
| 6.10972E-09 | 2744.85 | 8511.075 | 3.10074 | 0.000553745 | 15608.3 | 6399.43 |
| | | | | 5.31731E-08 | 6147.05 | 17508.3 |

6.6499E-06 2844.78 1249.38

0.000223114 2764.08 1285.75

| | | | | | | |
|-------------|---------|---------|----------|-------------|---------|--------|
| 0.000161411 | 1195.28 | 369.025 | -3.23901 | 3.78339E-07 | 1696.28 | 318.05 |
|-------------|---------|---------|----------|-------------|---------|--------|

3794
90585

| | | | |
|-------------|---------|----------|----------|
| 0.000020319 | 17430.6 | 7581.875 | -2.29898 |
|-------------|---------|----------|----------|

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|-------------|---------|----------|----------|-------------|---------|---------|
| 1.74268E-06 | 853.175 | 274.7667 | -3.10509 | 4.44886E-07 | 1281.78 | 369.35 |
| | | | | 1.26797E-07 | 653.1 | 278.175 |

| | | |
|-------------|---------|---------|
| 0.000516144 | 8190.28 | 3918.08 |
| 0.00332282 | 594.1 | 1378.1 |

| | | | | | | |
|------------|-----|---------|--------|-------------|--------|--------|
| 0.00125057 | 838 | 2379.25 | 2.8392 | 3.42779E-06 | 671.95 | 3300.6 |
|------------|-----|---------|--------|-------------|--------|--------|

| | | | | | | |
|-------------|---------|--------|----------|-------------|---------|---------|
| 1.84769E-05 | 1305.05 | 538.65 | -2.42282 | 1.74302E-05 | 715.225 | 274.725 |
|-------------|---------|--------|----------|-------------|---------|---------|

| | | | | | | |
|-------------|---------|----------|----------|-------------|---------|---------|
| 9.46314E-05 | 2241.38 | 1117.5 | -2.0057 | 3.54513E-06 | 1913.25 | 709.95 |
| 0.00108697 | 4872.28 | 1999.775 | -2.43641 | 5.7513E-06 | 4270.63 | 1096.43 |

| | | | | | | | | | | |
|-------------|------|---------|---------|-------------|---------|---------|---------|-------------|---------|---------|
| 3.03268E-09 | 2185 | 15581.3 | 7.13103 | 1.09873E-14 | 1541.78 | 42954.5 | 27.8604 | 1.85615E-16 | 1332.73 | 63943.1 |
|-------------|------|---------|---------|-------------|---------|---------|---------|-------------|---------|---------|

31671

| | | | | | | |
|-------------|---------|--------|----------|-------------|---------|---------|
| 5.52689E-10 | 9074.18 | 3344.1 | -2.71349 | 1.37192E-08 | 7165.95 | 2930.18 |
|-------------|---------|--------|----------|-------------|---------|---------|

0.000257794 778.975 335.9

0.00167714 489.775 1465.43

1.92451E-05 415.45 2118.33

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0.00401378 45212 18745.9

0.00433991 48767.4 20649.7

3.4688E-07 6971.58 2247.85 -3.10144

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42393

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54460

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485

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0.00265503 248.75 594.85

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2.82582E-07 3338.18 1605.8

1.38271E-06 4143.13 1739.38

7.39279E-05 793.575 328.1333 -2.41845

9.48599E-06 1221.45 515.55

5.14246E-07 4085.48 1934.83

1.11659E-07 1907.53 5077.625 2.66189

1.79245E-10 2785.38 10412.5

9.49617E-07 3078.1 8872.75 2.88254

1.14361E-08 5072.48 19750.9

1.64799E-06 #DIV/0! 1140.1 #DIV/0! 8.26832E-06 #DIV/0! 1701.68

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7.97657E-05 11038.3 32076.3
1.1036E-06 960.667 387
7.51784E-07 1090.35 #DIV/0!
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2.47082E-06 3890.18 1745.68
6.55342E-09 6217.53 2653.75
1.58783E-07 3440.08 1614.9

9220

3.51521E-06 2034 986.375

4.90737E-09 3765.23 641.225

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0.00224223 715.5 #DIV/0! #DIV/0!

2755
2755

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1.25186E-06 146.4 513.5

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0.000929135 7256.8 17132.7

/// 200030

/// 149013 /// 200030 /// 25832 /// 284565 /// 400818 /// 440670 /// 55672 /// 728841 /// 728912 /// 728936
553149

0.000646276 227.033 595.5 2.62296

1.26634E-06 364.05 1686.43

0.000438051 4683.43 2320.15 -2.01859

| | | | | | | | |
|-------------|---------|----------|----------|-------------|---------|---------|--|
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| | | | | 0.000370713 | 8400.95 | 21477 | |
| | | | | 0.000012913 | 2653.55 | 1276.68 | |
| | | | | 1.65499E-08 | 3782.28 | 1660.8 | |
| 0.00014033 | 2246.13 | 912.825 | -2.46063 | 3.14253E-07 | 3929 | 1124.4 | |
| 6.00151E-07 | 580.7 | 210.8 | -2.75474 | 0.000390856 | 1166.13 | 567.05 | |
| 3.95537E-10 | 4291.7 | 14433.38 | 3.36309 | 2.35296E-05 | 5551.48 | 11576.6 | |
| | | | | 2.72157E-05 | 3709.28 | 1244.35 | |
| | | | | 2.43834E-06 | 3245.65 | 1482.98 | |
| | | | | 0.000177531 | 5929.5 | 12348.1 | |
| 4.83634E-06 | 1130.9 | 2431.125 | 2.14973 | | | | |
| 1.54781E-07 | 973.525 | 2333.425 | 2.39688 | | | | |
| 1.86945E-10 | 2892.63 | 751.075 | -3.85131 | 1.41193E-06 | 4171.85 | 1644.5 | |
| 8.01399E-08 | 798.35 | 198.2 | -4.028 | | | | |
| 3.27383E-05 | 1447.93 | 495.475 | -2.9223 | | | | |

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|-------------|---------|---------|
| 0.000502862 | 6876.75 | 3336.13 |
| 0.000417371 | 8024.53 | 3912.3 |
| 3.79139E-07 | 2873.85 | 1125.7 |
| 0.00124776 | 929.3 | #DIV/0! |
| 3.44395E-05 | 740.45 | 340.5 |

1364

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|-------------|---------|----------|---------|-------------|--------|---------|
| 1.73956E-06 | 5951.95 | 29220.25 | 4.90936 | 2.90608E-09 | 2782.1 | 25745.7 |
|-------------|---------|----------|---------|-------------|--------|---------|

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|-------------|---------|---------|----------|-------------|---------|---------|
| 0.000945007 | 7354.88 | 14823.7 | | | | |
| 0.000338677 | 1384.05 | 615.85 | -2.24738 | 2.55478E-08 | 2185.48 | 454.575 |
| | | | | 9.57554E-09 | 1289.1 | 346.65 |

1656

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|-------------|---------|--------|----------|-------------|---------|-------|
| 8.63781E-06 | 3590.33 | 1675.7 | -2.14258 | 0.000499562 | 265.867 | 646.7 |
|-------------|---------|--------|----------|-------------|---------|-------|

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| 0.000454751 | 1299.73 | #DIV/0! |
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0.000109615 1488.93 3316.9

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|-------------|---------|----------|---------|-------------|---------|---------|
| 0.00257421 | 625.7 | 1629.925 | 2.60496 | 0.00012965 | #DIV/0! | 1471.73 |
| | | | | 5.32266E-05 | 742.7 | 6295.03 |
| 0.000027125 | 2605.33 | 10990.58 | 4.2185 | 1.81692E-07 | 1450.35 | 6868.45 |
| | | | | 6.28657E-05 | 207.775 | 522.3 |

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|-------------|---------|----------|----------|-------------|-------|---------|
| 0.000116144 | 5244.13 | 2171.475 | -2.41501 | 0.000636826 | 760.6 | #DIV/0! |
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5.93557E-08 1999.73 4230.53

7.44564E-06 1747.95 798.95

0.000253342 352.05 831.2

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|-------------|---------|----------|----------|-------------|---------|--------|
| 6.45597E-05 | 2658.23 | 1232.525 | -2.15673 | 1.43122E-05 | 3584.15 | 1650.7 |
| | | | | 2.89017E-05 | 827.075 | 372.8 |

40672

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| | | | | 5.34714E-10 | 1010 | 319.733 |
| | | | | 2.53961E-06 | 2955.2 | 1324.5 |

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|-------------|---------|---------|---------|-------------|---------|---------|
| 3.30822E-06 | 486.425 | 3593.05 | 7.38665 | 9.58975E-08 | 576.125 | 7777.18 |
|-------------|---------|---------|---------|-------------|---------|---------|

9.84613E-05 1451.85 6514.98

0.00144878 2313.75 997.475

0.00181864 1472.5 #DIV/0!
8.70697E-08 #DIV/0! 1022.5

0.00067307 4804.6 25998.2 5.41111 1.47593E-05 2102.4 20450.6
0.000174353 1801.25 11092.9 6.15845 3.42386E-06 813.2 8816.8

0.00076868 #DIV/0! 1118.733 #DIV/0!
8.44195E-08 678.467 2225 3.27945 1.91349E-11 492.85 3371 6.83981 2.69986E-13 458.5 4431.23
2.11431E-08 11925.4 33592.35 2.81687 4.29026E-09 7577.93 24291.5

9.63366E-08 16342.8 6801.55 -2.4028 1.58322E-07 19302.2 8353.28
4.50661E-05 6503.63 2599.25 -2.50212 1.05055E-05 7909.85 2718.6
0.000608585 37310.4 15974.6 -2.33561

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|-------------|---------|--------|---------|-------------|---------|----------|---------|-------------|---------|---------|
| 0.000197829 | 2456.15 | 7296.8 | 2.97083 | 6.91284E-10 | 3225.48 | 33689.7 | 10.4449 | 2.6825E-12 | 2393.5 | 46381.8 |
| | | | | | | | | 5.64911E-07 | 2403.28 | 9287.18 |
| | | | | 9.1876E-08 | 5104.2 | 17096.43 | 3.34948 | 4.71013E-08 | 4274.78 | 15607.8 |
| | | | | 6.72359E-09 | 9525.35 | 34033.98 | 3.57299 | 7.37718E-09 | 9293.93 | 33628.1 |

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| 7.35938E-05 | 4251.3 | 1823.18 |
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| 0.000026811 | 1215.25 | 502.75 | -2.41721 |
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| 0.0013635 | 395.5 | 791.75 |
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45139 /// 651789

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| 5.89392E-05 | 1244.4 | 589.625 |
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| 0.000900571 | 6239.65 | 2177.93 |
| 2.02362E-06 | 1244.58 | 507.575 |

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| 0.000305348 | 570.8 | #DIV/0! |
|-------------|-------|---------|

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|-------------|---------|---------|---------|-------------|---------|---------|
| 3.39287E-07 | 1123.1 | 2311.45 | 2.0581 | 6.75667E-11 | 1453.3 | 4310.73 |
| 6.30217E-10 | 3077.13 | 6677.4 | 2.17001 | 5.33296E-13 | 3741.68 | 10117.3 |
| 1.13544E-09 | 1586.68 | 3713.75 | 2.34059 | 2.30398E-14 | 2136.25 | 7403.23 |

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|-------------|---------|--------|----------|-------------|---------|---------|
| | | | | 2.64663E-06 | 874.575 | 380.55 |
| | | | | 1.77387E-09 | 10743.5 | 4178.48 |
| | | | | 0.00153055 | 5964.85 | 2386.78 |
| 0.000107625 | 1969.58 | 745.85 | -2.64071 | 0.00385799 | 3004.33 | 1258.78 |

3259

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|-------------|---------|----------|----------|-------------|---------|---------|
| | | | | 8.88471E-08 | 3684.8 | 1335.18 |
| | | | | | | |
| 1.39038E-05 | 7038.98 | 2809.925 | -2.50504 | 8.57373E-06 | 9619.53 | 3975.35 |
| 1.314E-07 | 2253.08 | 974.1667 | -2.31282 | 1.52363E-11 | 2359.3 | 589.65 |

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|--|--|--|--|-------------|---------|---------|
| | | | | 1.21403E-05 | 899.2 | 2105.38 |
| | | | | 2.6417E-08 | 8447.25 | 3318.95 |

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|--|--|--|--|-------------|---------|----------|
| | | | | 7.25178E-07 | 3960.45 | 1371.8 |
| | | | | 8.33255E-09 | 4298.58 | 1129.05 |
| | | | | 1.49199E-09 | 4399.4 | 1842.5 |
| | | | | 1.27511E-11 | 5192.23 | 1669.73 |
| | | | | 3.41471E-12 | 3483.08 | 1389.025 |
| | | | | 1.12879E-13 | 4583.43 | 1516.5 |

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|-------------|--------|----------|---------|-------------|---------|---------|
| | | | | 0.00147307 | 566.125 | 1164.2 |
| 0.000212552 | 440.75 | 1122.925 | 2.54776 | 0.000270973 | 516.525 | 1193.98 |

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| | | | | 5.21437E-06 | 1686.85 | 796.5 |
|--|--|--|--|-------------|---------|-------|

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|-------------|--------|----------|---------|-------------|---------|----------|----------|-------------|-------------|---------|---------|
| | | | | | | | | | 8.03048E-05 | 1045.98 | 2205.15 |
| 5.90315E-07 | 4077.5 | 12656.25 | 3.10392 | 3.76949E-11 | 5147.63 | 32248.33 | 6.2647 | 1.68184E-10 | 5855.43 | 33573.7 | |
| | | | | 3.02304E-05 | 1167.37 | 4622.425 | 3.9597 | 1.88955E-07 | 1212.95 | 9494.85 | |
| | | | | | | | | | | | |
| | | | | | | | | | 8.25959E-07 | 8971 | 3885.03 |
| | | | | | | | | | | | |
| | | | | 0.000399829 | 4742.98 | 14224.58 | 2.99908 | 1.43378E-05 | 2221.85 | 7974.95 | |
| | | | | 2.67182E-05 | 7927.3 | 20266.93 | 2.5566 | 7.04959E-09 | 2955.95 | 13360.2 | |
| | | | | 0.000448106 | 1594.9 | 3305.8 | 2.07273 | 0.000207672 | 1012.6 | 2192.03 | |
| | | | | 2.00616E-08 | 640.65 | 1970.425 | 3.07567 | 6.58702E-08 | 383.125 | 1148.05 | |
| | | | | | | | | | | | |
| | | | | 3.28572E-07 | 11466.1 | 4640.4 | -2.47092 | | | | |
| | | | | 5.56116E-09 | 3430.6 | 9271.025 | 2.70245 | 1.71622E-10 | 4277.15 | 13462 | |
| | | | | 9.74809E-06 | 3835.98 | 11940.98 | 3.11289 | 2.03427E-06 | 4736.5 | 16924.5 | |
| | | | | 0.000287749 | 322.05 | 763.45 | 2.37059 | 0.00100917 | 385.225 | 819.4 | |
| | | | | | | | | | | | |
| | | | | | | | | | 0.00044575 | 1206.03 | 470.525 |
| | | | | | | | | | 6.39337E-06 | 1159.95 | 433.325 |
| | | | | | | | | | | | |
| | | | | | | | | | 0.000151036 | 1611.03 | 3620.83 |
| | | | | | | | | | 0.000132526 | 1361.68 | 3210.33 |
| | | | | 3.14314E-07 | 12356 | 32521.08 | 2.63202 | 1.13422E-05 | 5695.13 | 12861.4 | |
| | | | | 3.54453E-06 | 1927.33 | 5136.825 | 2.66526 | 0.000483731 | 3262.7 | 6990.05 | |
| | | | | 3.11282E-05 | 1506.5 | 3203.2 | 2.12625 | 1.51458E-06 | 1697.28 | 4331.9 | |
| | | | | | | | | | 9.28495E-07 | 1506.03 | 5191.2 |
| | | | | | | | | | | | |
| | | | | 0.00145847 | 792 | 2040.4 | 2.57626 | 0.000301492 | 1019.5 | 3609.6 | |

5.92486E-06 3695.4 9964.65
4.53516E-09 6322.53 19787

1.93202E-05 1529.33 703.2 -2.17481 2.28154E-05 2559.93 1165.38

90102

9.5021E-07 7337.2 1984.875 -3.69656 0.000180084 5779.68 2064.33
1.22962E-08 1650.2 697.25 -2.36673 4.63348E-10 3803.65 1352.6

1.36226E-12 3304.55 15550.825 4.70588 9.10124E-18 1534.63 14839.95 9.67008 8.5197E-07 15734.4 7750.35
0.00147608 2794.78 1214.575 -2.30103 4.8445E-17 1773.1 15715.4
0.000375535 4707.2 2160.475 -2.17878 0.00226136 2627.3 1244.38

0.0035857 559.825 194.75
0.000648902 627.125 283.475

0.000880264 658.633 #DIV/0!

7.24414E-09 2622.03 10860.5
1.02661E-08 11470.1 40906.7

1.07294E-07 1281.13 3538.55 2.76206 3.52039E-07 32146.4 12170.4
4.54983E-09 1605.03 6154.125 3.83429 1.38986E-10 2012.73 8067.13
6.01486E-10 2575.15 12049.2

4.82015E-05 12790.9 29596.48 2.31387 2.86898E-05 13572.7 32141.5
0.000159652 781.9 239.1 -3.27018 0.000963416 1527.48 505.033

1.12837E-09 1911.65 591.075
9.03367E-06 1470.65 636.35

2.42788E-07 563.45 2730.325 4.84573 4.19438E-06 724.45 2846.55
0.000202356 2787.03 9247.575 3.31808 1.18898E-09 3264.7 37115.18 11.3686 9.18399E-12 2041.33 41475.6
8.29455E-08 10560.6 3811.975 -2.77037 5.8539E-06 15540.4 6854.8
4.36665E-11 9967.2 2953.975 -3.37417 4.57859E-07 13978.3 6908.75

0.000394939 3023.58 1052.78
6.78819E-05 1884.4 492.725

/// 100137049 /// 8681

7.6984E-06 618.05 1816.13
0.000110008 1796.6 4970.3
1.58799E-05 7233.7 40836.8
0.001214 18551.9 50807.48 2.73867 7.27066E-07 10039.5 51878.4

0.000167802 745.25 279.8

0.000161601 1283.28 #DIV/0! #DIV/0!

/// 100134366 /// 285189 /// 5342 /// 5343

43

1.06139E-05 2502.83 6671.575 2.66562 0.000231654 1517.33 3470.78

5.6196E-07 10953.5 25386.8

3.66087E-06 4038 1506.6

5395

3.53467E-07 #DIV/0! 1133.7 #DIV/0! 5.02484E-07 732.325 1670.05 2.28048
2.87984E-05 713.8 1900.975 2.66318 1.53498E-05 908.7 3501.65

0.000320318 7003.45 2789.85

0.000747287 262 1193.6

0.000530218 #DIV/0! 919.4 #DIV/0!

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|-------------|---------|-----------|----------|--|-------------|---------|----------|----------|
| | | | | | 0.000106371 | 2260.63 | 10236.9 | |
| | | | | | 0.00356244 | 1112.5 | 5109.43 | |
| | | | | | | | | |
| | | | | | 4.06092E-05 | 1914.78 | 4147.73 | |
| | | | | | | | | |
| | | | | | 0.000112451 | 537.55 | 1329.43 | |
| | | | | | | | | |
| | | | | | 6.99406E-05 | 21884.5 | 9807.28 | |
| | | | | | 0.000092825 | 28359 | 11503.9 | |
| | | | | | 2.35054E-05 | 589.25 | #DIV/0! | |
| | | | | | | | | |
| | | | | | 0.000113184 | 1025.25 | 499.3 | |
| | | | | | 1.5815E-06 | 2240.95 | 816.925 | |
| | | | | | | | | |
| | | | | | 4.66519E-06 | 12072.2 | 5747.48 | |
| | | | | | | | | |
| | | | | | 1.85953E-07 | 25005.6 | 9712.75 | -2.57451 |
| | | | | | | | | |
| | | | | | 0.00148119 | 2957.78 | 1448.525 | -2.04192 |
| | | | | | 0.000329279 | 866.75 | 397.25 | -2.18188 |
| | | | | | 0.000022689 | 2034.98 | 4802.75 | 2.3601 |
| 9.37435E-05 | 17885 | 40399.15 | 2.25883 | | 5.07301E-07 | 9077.43 | 24545.98 | 2.70407 |
| 4.59457E-06 | 14174 | 39945.15 | 2.81819 | | 1.01515E-05 | 7579.28 | 20726.43 | 2.73462 |
| | | | | | | | | |
| | | | | | 0.00139899 | 1916.63 | #DIV/0! | #DIV/0! |
| | | | | | | | | |
| | | | | | 0.00236918 | 2035.53 | 958.25 | -2.12421 |
| 2.12615E-06 | 8215.2 | 3767.875 | -2.18033 | | | | | |
| 5.57017E-10 | 737.4 | 2949.15 | 3.99939 | | 1.3765E-06 | 1570.83 | 3995.8 | 2.54376 |
| | | | | | 0.000114983 | 218.6 | 516.6 | 2.36322 |
| | | | | | 0.000660764 | 367.7 | 1147.675 | 3.12123 |
| 2.77373E-05 | #DIV/0! | 634.93333 | #DIV/0! | | | | | |
| | | | | | | | | |
| | | | | | 0.000323955 | 2545.05 | 989.925 | |
| | | | | | 3.61801E-07 | 9733.18 | 4087.63 | |
| | | | | | 2.53096E-06 | 2944.4 | 7688.4 | |
| | | | | | 0.00161043 | 455 | 1053.25 | |

0.000832463 681.35 1389.525 2.03937 9.84667E-08 649.5 2240.83

5534

2.58243E-08 19348.1 3475.88

/// 80148

2.63892E-09 1424.58 364.8

5.71525E-10 4332.98 1692.2
0.000226424 209.15 976.275

0.00131309 #DIV/0! 1163.4 #DIV/0! 0.000893552 #DIV/0! 1236.6

9.58391E-05 1080.68 409.1
0.00010024 831.15 302.867

3.67933E-06 3834.8 1334
4.53423E-07 8081.75 2904.15
8.71466E-05 2010.35 878.45

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|-------------|---------|---------|
| 0.000123477 | 1140 | 2909.4 |
| 0.000118004 | 8994.65 | 2352.78 |

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| 0.00030437 | 521.425 | 198.15 |
| 0.000013325 | 727.5 | #DIV/0! |

16

5.10267E-05 571.95 275.975 -2.07247

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|-------------|---------|-------|
| 0.000021481 | 589.775 | 214.8 |
|-------------|---------|-------|

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| 5.97875E-07 | 4796.8 | 2376 |
|-------------|--------|------|

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| 1.37583E-05 | 705.3 | 297.525 |
|-------------|-------|---------|

0.000232389 1829.63 4025.375 2.20011

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|-------------|-------|------|
| 6.84911E-09 | 406.1 | 1858 |
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| 1.28754E-06 | 3734.68 | 957.65 |
|-------------|---------|--------|

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| 1.27898E-07 | 3586.68 | 1533.63 |
|-------------|---------|---------|

7.91087E-05 4210.85 1971.225 -2.13616
2.43893E-05 9178.73 4579.075 -2.00449

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2.80561E-08 21314 50246.25 2.35743

4.98601E-09 11509.2 3919.25
1.36419E-10 11911.7 38999.2

9.54909E-09 4697.7 1907.93

1.02334E-06 3479.65 1682.55

4.21871E-06 3402.38 1650.55

6.3392E-07 14654 30501.48 2.08145

0.00139535 623.2 1302.33
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0.00122969 12134.1 28438.1 2.34365

2.00782E-07 3274.25 16404.2
3.82849E-06 788.575 3240.63

0.000703171 6289.83 13381.6

4.50782E-05 1433.6 #DIV/0!
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0.000507686 745.175 #DIV/0!

4.63675E-06 16973.8 39880.93 2.34956

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0.000368767 782.075 #DIV/0! #DIV/0!

0.000659407 721.15 #DIV/0!

0.000771752 836.025 320.267

0.000450383 1817.98 852.275

4.42928E-05 372.433 917.925 2.46467

0.0014781 601.025 1211.08

1.43723E-05 14668.2 6708

4.56707E-08 4709.33 2338.75

0.00219592 2888.9 6074.05

6.17358E-06 3904.88 1676.65 -2.32897

4.24492E-05 3883.93 1855.65

0.000106748 3457.68 1701.2

2.01213E-06 3340.5 8983.525 2.68928

2.14323E-08 6004.48 18976.3

1.05664E-09 16879.1 39171.08 2.32069

2.22874E-11 11752.2 32158.2

1.51953E-07 5649.4 13728.35 2.43005

0.000320958 639 266.7

3.53647E-10 2076.88 7200.75 3.46711 2.17146E-11 1664.88 6544.78

3.56925E-06 5720.6 1683.175 -3.3987 1.56798E-07 12423.7 3165.58

5.56559E-06 17316.8 7117.58

0.000256598 1076.73 521.55 -2.06447

9.98797E-08 6995.83 17687.2

0.000289069 887.3 386.9

1.19566E-07 8282.05 3659.225 -2.26333 0.000001679 10738 4963.13

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1.26121E-05 3868.6 8501.15

1159

6.02527E-05 826.8 389.15

0.000708311 579.025 287.45 -2.01435

3.40955E-05 798.575 246.4 -3.24097 4.10179E-06 1709.6 440.375

/// 25788

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|-------------|---------|----------|---------|-------------|---------|---------|
| 0.0014389 | 3998.33 | 18706.9 | 4.67868 | 4.74518E-05 | 3121.15 | 23591.2 |
| 0.000008475 | 10508 | 48044.23 | 4.57215 | 2.8977E-07 | 7803.98 | 51641.6 |

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|-------------|---------|----------|---------|-------------|---------|---------|
| 5.25626E-06 | 24960.1 | 58509.88 | 2.34413 | 4.03286E-07 | 16150.1 | 42670.1 |
| 8.51629E-10 | 2715.93 | 9871.825 | 3.63479 | 1.44374E-11 | 1447.88 | 6509.98 |
| 6.65073E-12 | 3751.58 | 12966.78 | 3.45635 | 8.92075E-13 | 2144.6 | 8134.4 |

400966 /// 5903 /// 652919 /// 653489 /// 727851 /// 729540 /// 729857 /// 84220

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|-------------|---------|--------|
| 1.21769E-05 | 1414.53 | 3765.3 |
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| 2.7868E-06 | 5117.35 | 10795.5 |
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/// 100133005 /// 100134722 /// 10156 /// 401331

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|-------------|---------|---------|----------|-------------|---------|--------|
| 4.87053E-07 | 1963.93 | 592.075 | -3.31702 | 2.05057E-08 | 2520.03 | 627.45 |
|-------------|---------|---------|----------|-------------|---------|--------|

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| 4.07887E-07 | 4263.73 | 1953.58 |
| 0.000174573 | #DIV/0! | 883.2 |

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|-------------|---------|----------|---------|-------------|---------|---------|
| 4.78371E-09 | 974.5 | 2603.175 | 2.67129 | 2.42659E-09 | 1484.35 | 3902.83 |
| 1.72936E-06 | #DIV/0! | 1728 | #DIV/0! | | | |

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|-------------|---------|---------|
| 1.84189E-07 | 3716.13 | 1848.65 |
| 1.66886E-06 | 2659.1 | 5378.23 |

0.000781373 1782.88 3893.53

9.08351E-05 849.075 419

7.80908E-05 3833.38 1775.05 -2.15959 0.00018301 5736.35 2604.23

6.53444E-08 2591.98 834.075 -3.1076 6.33196E-05 4152.5 1966.28

9.36656E-13 3457.28 857.15 -4.03345 2.95332E-09 5209.88 1856.95

4.51248E-11 2220.08 #DIV/0! #DIV/0!

0.00020424 581.1 1456.075 2.50572 2.8287E-06 4102.88 8686.6 2.1172 1.91937E-06 4100.63 9275.4
0.00101816 694.85 1839.025 2.64665 3.03736E-06 665.675 3120.7

3.95455E-06 24967.6 49995.08 2.0024 1.34752E-06 2490.55 592.725
3.41813E-08 23285.7 57521

0.00138452 770.733 #DIV/0!

5.62536E-07 1469.88 545.025 -2.69689 5.07411E-07 2348.53 862.15
8.32313E-09 1513.33 #DIV/0!

6.50441E-07 2016.55 860.625
0.000394496 1412.45 635.45
6.10918E-05 1668.18 799.3

0.000127361 753.425 363.4

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|-------------|---------|----------|----------|-------------|---------|---------|
| 0.000175847 | 1082.98 | 462.425 | -2.34195 | 1.48586E-08 | 1389.78 | 310.65 |
| 6.63026E-06 | 2473.78 | 1059.325 | -2.33524 | 4.63167E-10 | 3488.18 | 947.925 |
| | | | | 2.59565E-06 | 6572.35 | 2503.13 |
| 4.45937E-06 | 11793.9 | 26269.25 | 2.22736 | 4.25008E-07 | 9184.7 | 22661.8 |
| | | | | 0.000469003 | 314.525 | 707.75 |
| 8.62003E-07 | 3832.55 | 7709.5 | 2.01158 | 8.67836E-08 | 3450.1 | 7368.28 |
| 4.86616E-08 | 12590.2 | 29944.75 | 2.37842 | | | |

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| 8.55425E-06 | 1408.55 | 633.05 | | | | |
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|-------------|---------|---------|----------|-------------|---------|--------|
| 2.47019E-05 | 1555.83 | 557 | -2.79322 | 2.01534E-05 | 2508.75 | 766.35 |
| 4.86502E-05 | 8207.88 | 3381.65 | -2.42718 | 4.00311E-06 | 13302.1 | 4287.3 |
| 0.000932305 | 801.15 | 363.95 | -2.20126 | | | |

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| 0.00278174 | 801.775 | 267.75 | | | | |
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| 3.03959E-06 | 1686.55 | 671.025 | -2.51339 | | | |
| 2.49873E-06 | 2012.13 | 964.8 | -2.08554 | | | |
| 1.64204E-06 | 1376.83 | 517.775 | -2.65912 | 1.32347E-07 | 1336.08 | 425.775 |
| 5.20554E-05 | 682.825 | 295.1 | -2.31388 | 4.29696E-08 | 779 | 206.9 |

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|-------------|---------|---------|--|--|--|--|
| 2.87929E-05 | 2045.43 | 977.967 | | | | |
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| 0.000004273 | 1898.2 | 6753.975 | 3.55809 | 8.1606E-06 | 1442.75 | 4766.63 |
|-------------|--------|----------|---------|------------|---------|---------|

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|-------------|--------|--------|--|--|--|--|
| 0.000605782 | 9857.3 | 4283.5 | | | | |
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0.00004976 1094.45 486.175 -2.25114

2.45593E-09 7381.1 15008.3

5.06637E-07 1778.83 762.125 -2.33403

6.23975E-07 1689.8 819.367

2.56326E-06 1549.8 703.2

0.000778921 875.6 #DIV/0! #DIV/0!

5.56632E-11 5164.93 18851.975 3.65

4.16866E-14 4625.8 25469.05 5.50587

1.38525E-13 4947 26187.7

19

0.000223785 2967.8 1269 -2.33869

0.000315249 3036.78 1318.55

/// 100133583 /// 100133661 /// 100133811 /// 3119 /// 3120 /// 3123 /// 3124 /// 3125 /// 3126 /// 3127 /// 388567 /// 6036 /// 730415 /// 731247

0.000835377 29863.5 7582.8

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1.67518E-07 564.775 200.8

2.07169E-07 3280.43 1196.175 -2.74243

1.17103E-05 5005.88 2351.35

5.10655E-08 2211.43 915.925 -2.41442

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2.46989E-05 1813.15 813.8 -2.228

6.6117E-06 2657.5 1049.48

0.00115389 536.725 262.65

1.64887E-08 9617.65 19344.8

4.10006E-05 18266.3 8534.325 -2.14033

0.000121163 16336.2 7448.475 -2.19323 3.30309E-05 24162.5 10511.7

7.55907E-11 1437.98 4597.725 3.19736 8.0131E-18 887.45 7114.85 8.01718 9.94141E-17 1523.38 10220.5
1.11679E-07 598.375 2338.45 3.908 1.36694E-13 394.925 3040.575 7.69912 1.24258E-13 452.15 3658.13

8.44344E-06 1604.75 612.6 -2.61957 8.89157E-06 3598.43 1445.53
2.14972E-07 1211.1 571.375 -2.11962 6.75324E-09 2243.58 942.175

7.13846E-06 2306 762.025 -3.02615
3.33815E-05 5676.58 2169.9 -2.61605 0.000259457 9845.3 4487.6

1.30565E-05 2607.9 720.325

0.000170881 2431.5 5414.6 2.22686 4.82778E-05 1539 4111.125 2.6713 2.70225E-06 1675.73 5040.38

/// 4736

3349

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2.04629E-06 1501.38 555.55

4.75064E-08 5339.65 1636.975 -3.2619

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2.02007E-07 14638.5 3896.55 -3.75679

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1.53355E-08 8717.13 26788.4

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4.75513E-06 24517.9 58932.38 2.40364

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5.36831E-10 629.5 3533.1

3.72572E-07 1540.13 3982.425 2.58578
4.62941E-06 3006.4 7043.625 2.34288

2.62913E-11 1273.45 5969.85 4.68793
3.22618E-11 2496.03 11222.98 4.49634
0.000445116 #DIV/0! 1287.275 #DIV/0!

3.40198E-10 1272.78 5263.55
1.45696E-08 2704 8442.9
0.00386794 643.45 1348

0.00215939 6920.98 2573.38

0.000156851 2953.55 7723.8 2.61509

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6.84185E-09 8185.58 2980.88

6.50849E-06 1037.83 400.725 -2.58987

8.43093E-08 1952.68 629.275

1.20487E-05 1624.88 669.65

5.62104E-05 1455.2 613.15

5.76704E-09 1335.5 416.233

0.000242089 1527.7 553.325 -2.76095

2.55651E-08 2674.25 369.1

1.84093E-06 6342.75 1039 -6.10467

2.34782E-10 10458.1 622.35

6.48593E-06 9717.03 1548.825 -6.2738

1.62391E-08 16086.6 1027.23

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|-------------|---------|-----------|---------|-------------|---------|----------|---------|-------------|---------|---------|
| 4.89093E-07 | 8003.73 | 20123.9 | 2.51432 | 3.04839E-14 | 3333.75 | 20643.93 | 6.1924 | 4.14618E-14 | 2458.18 | 15318.6 |
| 7.29836E-06 | 4875.55 | 18529.525 | 3.8005 | 2.27712E-11 | 1467.25 | 17323.03 | 11.8065 | 3.37205E-12 | 1184.33 | 17963.6 |
| 1.67466E-09 | 420.275 | 1737.425 | 4.13402 | 3.29613E-14 | 236.55 | 2014.675 | 8.51691 | 2.30331E-14 | 317.825 | 3012.85 |

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|-------------|---------|----------|---------|-------------|---------|---------|
| 1.88889E-06 | 6965.63 | 20240.25 | 2.90573 | 2.61062E-06 | 4898.13 | 15078.9 |
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| 9.72817E-05 | 1546.03 | 3755.425 | 2.42908 | 1.86797E-06 | 1797.95 | 5167.58 |
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| 7.89576E-06 | 42830.1 | 18235.4 |
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| 5.48615E-06 | 6373.68 | 2318.967 | -2.7485 | 9.79194E-06 | 8844.83 | 2845.35 |
| 5.10937E-06 | 14713.7 | 5648.475 | -2.6049 | 1.20182E-06 | 19607.8 | 6527.55 |

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| 3.21618E-07 | 819.275 | 253.1 |
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| 3.55909E-05 | 5985.95 | 2100.25 | -2.85011 | 3.78349E-07 | 1875.38 | 432.45 |
| 0.000603069 | 2426.28 | 873.125 | -2.77884 | 7.10809E-05 | 7954.45 | 3202.08 |

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| 3.60503E-05 | 17223.1 | 37386.2 |
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| 0.000101837 | 343.6 | 837.8333 | 2.4384 | 0.00063793 | 343.8 | 820.5 |
| 0.000233578 | 2509.05 | 5873.575 | 2.34096 | 9.69877E-07 | 1146.28 | 4198.98 |
| 1.12758E-05 | 2306.65 | 6287.35 | 2.72575 | | | |

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|-------------|---------|----------|---------|-------------|---------|---------|
| 0.000327551 | 16974.8 | 40999.9 | 2.41535 | 5.11017E-05 | 1355.45 | 4189.13 |
| 8.38513E-08 | #DIV/0! | 1199.367 | #DIV/0! | 1.06828E-08 | 3672.4 | 17665.6 |
| 3.36662E-05 | #DIV/0! | 1910.3 | #DIV/0! | 4.38111E-08 | #DIV/0! | 2056.53 |
| | | | | 1.90079E-07 | #DIV/0! | 4535.93 |

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|-------------|---------|----------|---------|-------------|---------|---------|
| 9.52847E-06 | 2297.98 | 7292.95 | 3.17364 | 0.000535882 | 1818.35 | 4121.15 |
| 1.53808E-06 | 5244.35 | 11730.48 | 2.23678 | 2.10953E-09 | 4401.88 | 13625.5 |
| 6.09135E-11 | 4014.7 | 10057.23 | 2.5051 | 2.49064E-11 | 4370.63 | 11946.5 |
| | | | | 2.89431E-06 | 2145.25 | 4754.65 |

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|-------------|---------|---------|----------|-------------|---------|---------|
| | | | | 2.56786E-07 | 13834.4 | 6913.43 |
| 1.18005E-06 | 10082.1 | 4859.15 | -2.07486 | | | |

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| | | | | 2.76354E-06 | 694.1 | 231.833 |
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| | | | | 8.29307E-06 | 1177.5 | 501.95 |
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| | | | | 5.08591E-10 | 8463.03 | 28695.9 |
| | | | | 9.03682E-12 | 4962.45 | 20621.5 |
| | | | | 4.22638E-08 | 2265.58 | 5608.1 |

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| 1.71369E-06 | 1305.88 | 600 | -2.17646 | | | |
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|------------|-------|----------|---------|--|--|--|
| 0.00211195 | 304.2 | 670.2667 | 2.20337 | | | |
|------------|-------|----------|---------|--|--|--|

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0.000118941 #DIV/0! 757.525

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0.00318972 6681.25 14798.3

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3.05849E-05 23425.7 80456.5

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4.69627E-05 2760.93 1146.6

3.07149E-06 1726.93 4508.475 2.6107

2.03557E-05 1352.55 3054.775 2.25853

4.3972E-06 1146.73 2385.125 2.07995

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7.393E-11 2247.03 5929.83

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|-------------|---------|----------|----------|-------------|---------|----------|----------|-------------|---------|---------|
| 0.000217827 | 11765.8 | 5810.825 | -2.02481 | 2.65725E-08 | 27080.2 | 8339.875 | -3.24707 | 0.000176449 | 3522.33 | 10014.6 |
| | | | | | | | | 1.01038E-08 | 24068.3 | 6567.35 |
| | | | | | | | | 0.0012016 | 1193.73 | 595.075 |
| | | | | 5.4113E-07 | 1442.85 | 8572.4 | 5.9413 | 1.8571E-09 | 783.2 | 8820.28 |
| | | | | 4.16467E-08 | 2911.25 | 16813.1 | 5.77522 | 1.92154E-10 | 1516 | 15989.7 |
| | | | | | | | | | | |
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0.000611022 1224.33 582.5

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3234 /// 338821

/// 28231

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1042 /// 653188

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26

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4.83429E-07 1139.58 536.4
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3789

367

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7.37648E-08 802.45 #DIV/0! #DIV/0! 4.88409E-06 937.35 347.3

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2.78932E-08 8086.05 19713

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5818

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2.51883E-06 9357.23 3791.38

1.36879E-05 1566.45 751.5

1.57492E-05 777.367 1749.3 2.25029

4.1606E-10 622.3 2244 3.60598

9.60682E-12 2040.63 10296.15 5.04559

3.1068E-09 732.55 2517.25 3.43628

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6.17026E-10 10261.9 2925.05 -3.50826

0.000710102 2112.5 717.8 -2.94302

0.00154223 1084 512.475 -2.11523

6.98897E-10 14846.6 4398.1

0.000447565 3003.73 1177.07

7.60796E-05 2725.93 1329.75

6.33402E-07 5562.53 2384.25 -2.33303

5.49174E-07 7702 3215.33

0.000075346 1279.03 5328.93

1.17333E-10 7730.23 20421.1

0.00342186 1508.98 3060.53

0.00127855 2562.68 7980.05

3.14639E-06 1624.95 731.025

0.00002897 1505.33 #DIV/0!

0.00348674 1599.68 3234.3

8.99219E-05 1499.63 3503.83

7.31061E-08 26015 12205

7.53484E-09 7750.53 2472.08

5.04759E-09 12533.6 4314.4

2.1743E-07 6267.15 2482.68

8.88831E-07 10685.2 4792.8 -2.22943

4.60578E-06 15703.8 7622.53

4.43919E-05 426.4 1213.8

0.001139 750.225 #DIV/0!

7.54214E-05 1400.78 4841.33

1.92578E-05 1054.05 424.225

0.000531298 3089.08 6762.65

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|-------------|-------|--------|---------|-------------|---------|----------|----------|-------------|---------|---------|
| | | | | 5.06651E-07 | 3890.1 | 23322.08 | 5.99524 | 3.14996E-08 | 3087.1 | 26134.2 |
| | | | | 3.80352E-06 | 5190.3 | 25193.3 | 4.85392 | 6.92113E-08 | 3622.18 | 27548.6 |
| | | | | | | | | 0.000443066 | 168.45 | 623.3 |
| | | | | | | | | 0.000400487 | 1484.4 | 716.7 |
| 2.32233E-07 | 787.6 | 1667.3 | 2.11694 | 6.10284E-08 | 1036.58 | 2902.5 | 2.80009 | 4.58113E-11 | 961.25 | 4079.58 |
| | | | | 7.46651E-09 | 10154.8 | 21091.3 | 2.07698 | 6.36174E-07 | 1712.68 | 4572.55 |
| | | | | 3.38975E-06 | 3368.4 | 1483.95 | -2.26989 | 2.44161E-05 | 4227.85 | 1946.83 |

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| | | | | | | | | 0.00106313 | 3830.65 | 11580.5 |
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| | | | | | | | | 1.59374E-06 | 11038.2 | 5361.4 |
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| | | | | | | | | 9.53971E-07 | 709.2 | 3381.05 |
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| | | | | 1.40176E-06 | 2925.3 | 1069.6 | -2.73495 | 6.94025E-08 | 623.8 | 2281.55 |
| | | | | | | | | 8.27786E-06 | 4657.15 | 1952.85 |

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|--|--|--|--|-------------|--------|----------|----------|-------------|-------|---------|
| | | | | 0.00189865 | 545.9 | 1180.375 | 2.16225 | 2.26818E-07 | 519.1 | 1433.03 |
| | | | | 0.000159863 | 1371.5 | 637.9 | -2.15002 | 2.76433E-05 | 431.1 | 1281.05 |

51014

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|--|--|--|--|------------|---------|--------|---------|-------------|---------|---------|
| | | | | 8.4344E-06 | 1010.48 | 2706.3 | 2.67825 | 6.61026E-05 | 558 | 1371.95 |
| | | | | | | | | 3.25178E-05 | 2263.38 | 14251.2 |

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|--|--|--|--|-------------|--------|---------|----------|-------------|---------|--------|
| | | | | 0.000119723 | 3632.6 | 1457.45 | -2.49244 | 2.40763E-06 | 3719.23 | 1114.4 |
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53252

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| | | | | 3.26512E-07 | 8781.23 | 24052.83 | 2.73912 | | | |
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| | | | | | | | | 2.57799E-05 | 774.675 | 253.4 |
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0.000248176 6747.88 3154.825 -2.13891

2.68584E-07 37720.5 17660.2

2.47755E-07 1958.3 858.125 -2.28207

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|-------------|---------|----------|----------|-------------|---------|---------|
| 0.000917042 | 911.475 | 433.075 | -2.10466 | 0.000084526 | 1532.53 | 602.65 |
| 0.00170456 | 676.55 | 314.2 | -2.15325 | | | |
| 0.000057782 | 24063.3 | 6370.975 | -3.77702 | 0.000676415 | 27920.6 | 9409.63 |

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/// 84187

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| 0.00016668 | 10489.9 | 3747.85 |
| 8.06478E-05 | 11242.5 | 4353.58 |

/// 84548

7335

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| 0.000255943 | 1388.8 | 3601.025 | 2.5929 | 9.55009E-06 | 1266.88 | 4364.43 |
| | | | | 4.12112E-08 | 6448.85 | 2461.53 |
| | | | | 0.00208497 | 768.267 | #DIV/0! |

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|-------------|--------|--------|----------|-------------|---------|---------|
| 6.42246E-06 | 4032.8 | 1415.9 | -2.84822 | 2.28502E-05 | 6256.95 | 2379.53 |
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| 4.63536E-06 | 2360.33 | 907.575 |
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| 0.00135926 | 803.7 | 357.7 | -2.24685 |
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| 2.81831E-05 | 2271.85 | 4849.8 |
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| 7.01091E-08 | 1267.03 | 3452.68 |
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| 0.000101651 | 1545.73 | 3931.875 | 2.54371 | | | |
| 2.40635E-07 | 30663 | 71395.78 | 2.3284 | 6.90413E-09 | 19126.5 | 55417.8 |
| 4.16976E-08 | 20084.9 | 51947.78 | 2.58641 | 4.58509E-09 | 13113.2 | 38561.7 |

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|-------------|------|----------|---------|-------------|---------|---------|
| | | | | 3.77408E-09 | 8408.15 | 24437.6 |
| 0.000011178 | 8133 | 18113.95 | 2.22722 | 4.33308E-08 | 9325.73 | 29196.3 |

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|-------------|---------|---------|----------|-------------|---------|---------|
| 0.000117742 | 5773.28 | 2507.55 | -2.30236 | 6.93553E-06 | 5514.63 | 2107.65 |
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| 0.000532966 | 28749 | 13566.45 | -2.11912 | 0.000932288 | 24971.3 | 12322.8 |
| 0.0012203 | 478.225 | 1168.55 | 2.44352 | 1.96751E-06 | 283.25 | 838.125 |

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|-------------|---------|----------|----------|-------------|---------|---------|
| 6.44958E-10 | 2676.45 | 6071.975 | 2.26867 | 3.82414E-10 | 2703.98 | 6322.15 |
| | | | | 3.41116E-06 | 426.025 | 1602.18 |
| 0.000047661 | 12210.9 | 3771.975 | -3.23726 | 0.000171115 | 10693.8 | 3614.43 |
| 2.06087E-05 | 23554.9 | 8028.3 | -2.93398 | 5.86993E-05 | 20097 | 7175.75 |
| 6.18368E-05 | 6935.2 | 1792.225 | -3.8696 | 0.00025108 | 5721.3 | 1717.2 |

3741 /// 8742

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| 0.00040099 | 58287.5 | 28936.3 | | | | |
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| 0.00153353 | 132.1 | 519.675 | 3.93395 | | | |
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| 3.93753E-07 | 12011.2 | 5523.225 | -2.17467 | | | |
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| 0.000038222 | 3763.5 | 1592.825 | -2.36278 | | | |
| 8.19955E-07 | 3091.13 | 1522.125 | -2.0308 | | | |

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|-------------|---------|---------|----------|------------|--------|-----|
| 0.00250512 | 1230.08 | 584.6 | -2.10413 | 0.00279935 | 841.65 | 302 |
| 8.70969E-06 | 611.05 | #DIV/0! | #DIV/0! | | | |

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| 1.13322E-07 | 5470.23 | 2690.98 |
| 0.00168233 | 13303.9 | 6464.43 |

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| 0.00117775 | 1353.97 | #DIV/0! | #DIV/0! |
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| 0.00059031 | 168.575 | 625.95 | 3.71318 |
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|-------------|---------|-----------|---------|-------------|---------|----------|---------|-------------|---------|---------|
| 9.6398E-07 | 6924.13 | 19933.925 | 2.87891 | 6.66637E-14 | 5645.93 | 53710.85 | 9.51321 | 3.54748E-13 | 7621.95 | 64347 |
| 1.40316E-07 | 7370.55 | 25589.85 | 3.47191 | 8.15422E-14 | 6117.68 | 68341.7 | 11.1712 | 2.68347E-12 | 8285.15 | 68154.5 |
| | | | | 9.19742E-05 | 192.2 | 717.4 | 3.73257 | | | |

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| 2.13902E-05 | 2405.18 | 1062.925 | -2.26279 |
| 3.90105E-05 | 10913.5 | 5331.55 | -2.04697 |

3738 /// 28755 /// 6955
3738 /// 28755 /// 6955
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|-------------|--------|---------|---------|-------------|--------|---------|
| 3.83808E-06 | 1109.1 | 4089.3 | 3.68704 | 4.52234E-06 | 715.35 | 1670.53 |
| 0.000117428 | 668.45 | 1719.85 | 2.57289 | | | |

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| 3.09926E-08 | 1246.78 | 2792.9 |
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| 0.000050868 | 1937.93 | 918.7 | -2.10942 |
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3638 /// 28639

340206

2.9956E-07 2007.53 #DIV/0! #DIV/0! 2.52197E-08 3227.98 928.8

4126

3.96069E-07 1676.78 #DIV/0!
2.41131E-05 2182.05 837.1

7.29148E-05 1331.75 607.13333 -2.1935

0.000231175 396.8 846.9 2.13432
8.70647E-07 3108.28 1483.625 -2.09505 1.16299E-07 3376.78 1450.05
7.99081E-10 4061.9 1308.275 -3.10478 2.03642E-08 6333.03 2355.45
8.67735E-08 2801.1 1013.65 -2.76338 1.33877E-09 5186.58 1409.35

0.000273899 652.7 279.1

0.000669033 556.167 266.6

0.000198299 1092.95 481.3 -2.27083 3.11273E-05 2697.65 1124.58

5.50311E-07 697.725 309.125 -2.2571 2.05342E-07 790.825 339.65

0.000641678 2084.2 586.85 -3.5515 0.00124992 2057.38 794.933

1.78709E-05 1024.95 428.975

33864

9.98875E-05 48092.9 20841.08 -2.3076 1.19501E-06 32780.5 10179.2

2.81087E-05 26918.3 13288

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|-------------|---------|----------|----------|-------------|--------|---------|
| 5.53202E-06 | 2497.8 | 666.3333 | -3.74857 | 4.87399E-07 | 3782 | 1236.95 |
| | | | | 0.00304525 | 810.7 | 392.25 |
| 3.44675E-07 | 1184.73 | 477.05 | -2.48344 | 4.13563E-08 | 2081.8 | 781.1 |

0.000416162 4013.55 2006.6 -2.00017

0.000247025 #DIV/0! 575.05

0.000912662 1240.77 #DIV/0! #DIV/0!

0.000183578 1341.2 625.25
6.16864E-06 1000.28 2476.78

4.31021E-07 7524.8 2655.925 -2.83321

1.12953E-10 22536.9 6452.28
3.16735E-10 7924.03 1825.68
7.97358E-05 754.875 #DIV/0!

1567

0.00204222 1679.15 759.05 -2.21217

2.35889E-06 3680.5 8765.48

6.36723E-06 611.2 1379.13

11 /// 7314 /// 7316

0.000942564 2297.37 1011

0.000147153 1306.35 3533.15 2.7046
0.000059885 3361.08 8476.3 2.5219
6.84137E-05 2353.53 6210.725 2.6389

2.3822E-07 7708.85 3020.3
1.58203E-07 1158.03 6184.6
3.0578E-08 2681.25 12239.7
2.10399E-07 2370.45 10072.7

2.27601E-05 #DIV/0! 1932.88

1.68536E-05 1013.38 465.067

1.02449E-07 4092.65 10007.9 2.44533 1.45247E-06 4542.08 10366.1

0.00224491 1613.23 676.275 -2.38546 1.44048E-05 5103.35 2486.9

0.000154403 12694.1 5779.825 -2.19628 2.39917E-05 12544 5362.7 -2.33912 2.1518E-06 12288.5 5142
3.57727E-06 3659.85 1743

6.53132E-05 25024.8 11797.98 -2.12111 3.26843E-05 24313.8 10760.4

5559

8.32764E-09 2308.85 860.075

7.94572E-07 763.125 2164.35

1.32654E-06 13456.1 30597.5

4576 /// 54578 /// 54600 /// 54657 /// 54658

4576 /// 54578 /// 54600 /// 54657 /// 54658

1.48611E-07 853.275 3717.1
0.00378201 467.7 1403.03

0.000377488 1254.3 2610.73
0.000496374 966.05 3470.7

4.30039E-08 2011.03 812.05 -2.47648 3.93238E-09 2767.1 996.15
1.05484E-06 2401 881 -2.72531

1.75336E-05 783.775 1917.93

0.00134792 959.85 2910.175 3.03191
0.000174562 966.725 2491.825 2.57759
0.000102275 #DIV/0! 894 #DIV/0! 7.66026E-05 #DIV/0! 1323.45
2.73243E-08 467.675 1680.55 3.59341 6.66616E-10 461.3 2427.28
1.19173E-10 312.133 1346.825 4.3149 1.16358E-11 365.025 2033.3

0.000706801 1083.85 2429.53

/// 8287

2.38448E-07 5198.95 2039.33
1.16688E-07 2439.5 1139.88

7.77283E-12 9055.5 3481.55

/// 7416

0.000112137 1629.63 3647.95 2.23852 4.14732E-12 462.45 3395.225 7.34182 5.11122E-12 490.75 3618.78
8.25198E-12 953.9 7733.775 8.10753 2.47047E-10 1213.35 8101.1

8.40821E-06 4609.35 18349.575 3.98095 0.000202218 1541.7 14906.75 9.66903 0.000184553 2983.63 6862.93
1.51929E-08 3051.45 21878.23 7.16978 9.10594E-07 762.525 21879.5
1.31172E-11 2243.48 32288.6
1.10515E-09 1124 16223.5
1.12191E-05 7771.4 45840.6 5.89863 1.4678E-08 4267.28 55225.4
0.000227724 #DIV/0! 1314.8

6.97988E-08 561.967 1452.675 2.58498 1.76898E-10 394.725 3872.925 9.8117 7.41059E-14 358.967 6342.15
8.42041E-13 532.575 3839.275 7.20889 3.82589E-16 512.4 6177.65

1.07657E-05 #DIV/0! 1850.08

7.36371E-06 15777.6 40727.2

6.96218E-05 1515.33 #DIV/0! #DIV/0!
2.23405E-05 2342.18 5704.175 2.43542 3.53152E-07 2210.33 7145.1
0.000349074 561.1 1971.675 3.51395

5.47322E-06 1979.23 870.95

4.38667E-06 3883.75 9772.98
0.00416904 745.5 1739.18

5.82761E-06 1298.38 404.65 -3.20864 2.45887E-06 2249.05 618.275
8.89967E-09 1035.7 #DIV/0! #DIV/0!
2.92225E-05 758.55 378.15 -2.00595 1.50448E-05 912.9 430.9

1.27467E-05 864.7 262.3

2.69511E-06 7110.23 3228.65

1.23746E-07 2928.3 1170.8

0.000266366 356.9 741.675 2.0781 5.60409E-08 329.9 1196.63

0.000189281 #DIV/0! 613.725 #DIV/0!

0.00243814 1708.17 #DIV/0! #DIV/0! 7.66868E-06 4068.93 2020.28
0.000744314 767.6 326.467

2.6505E-07 1560.35 533.425 -2.92515 1.21448E-06 2663.25 1122.18
1.93623E-08 2144.85 749.1 -2.86324 1.23392E-06 3672.03 1603.83

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|-------------|---------|----------|----------|-------------|---------|---------|
| 1.38024E-05 | 2827.45 | 1379.7 | -2.04932 | 5.63038E-06 | 5824.35 | 2694.18 |
| | | | | 2.11401E-07 | 8444.93 | 4136.6 |
| | | | | 1.31774E-06 | 6097.05 | 2809.4 |
| | | | | 0.00190512 | 2237.73 | 940.675 |
| 7.40329E-12 | 10691.6 | 27886.65 | 2.60829 | 8.53245E-12 | 11824.6 | 29553.2 |
| 0.00150052 | 538.9 | 1213.225 | 2.2513 | 3.02551E-07 | 498.15 | 2778.8 |
| | | | | 0.000953045 | 1171.43 | 576.125 |
| 6.73752E-07 | 2570.08 | 938.6 | -2.7382 | 6.09533E-05 | 2773.95 | 1152.08 |
| | | | | 3.97665E-06 | 2451.18 | 1007.98 |
| | | | | 1.17656E-08 | 12170.3 | 5321.93 |
| | | | | 1.43504E-06 | 3365.93 | 1500.65 |
| | | | | 1.11722E-06 | 1319.65 | 638.2 |
| | | | | 0.000170701 | 1297.55 | 525.5 |
| 1.01788E-06 | 8962.05 | 33949.53 | 3.78814 | 2.21005E-06 | 4857.65 | 16848 |
| 2.26757E-06 | 4388.43 | 2062.425 | -2.1278 | 8.18017E-09 | 4056.73 | 1521 |
| | | | | 0.00133537 | 760.7 | 373.9 |

6.84688E-08 1928.4 #DIV/0! #DIV/0!

0.000661037 3590.9 1550.33

0.000400114 1143.68 #DIV/0!

/// 9839

/// 9839

2.49542E-07 18208.9 38735.78 2.1273

0.0017869 7613.08 17563.48 2.30701

0.00032303 7975.48 20531.8

0.000899057 30349.2 15099.3 -2.00998

/// 7543 /// 7544

1.15117E-08 1912.38 780.675

5.76563E-07 1874.6 752.75

1.66711E-05 1548.08 729.05

2.98846E-10 7378.78 2974.5

9.27808E-05 2049.05 4461.7

/// 9204

0.00102961 672.6 331.45

3.30757E-06 6083.1 1250.53

3.97787E-09 3829.03 7778 2.03133

1.3029E-07 4207.6 10719.2

7.78141E-11 4248.08 10464.5

1.29909E-06 2706.55 6503.25

1.64461E-07 3528.23 9314.5

6.75974E-05 320.5 794.975 2.48042

0.000147998 1046.33 422.933

6.54325E-08 307.025 912.075 2.97069
1.041E-07 343.667 1451.3 4.22299

1.2418E-10 632.45 2757.375 4.35983
8.32433E-09 491.6 2637.35 5.36483

1.5596E-11 873.675 4379.68
1.01571E-08 710.9 4118.68

0.000399078 947.25 #DIV/0! #DIV/0!

0.00100987 6018.85 2499.28

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|-------------|---------|----------|---------|-------------|---------|---------|
| 9.53928E-10 | 12105.3 | 48177 | 3.97982 | 7.15379E-06 | 3889.05 | 1788.23 |
| 1.63105E-12 | 4376.98 | 17093.33 | 3.90528 | 1.17889E-08 | 12074.5 | 43627.8 |
| | | | | 2.68684E-11 | 5180.18 | 17145.1 |
| 4.01886E-06 | 2804.5 | 5789.025 | 2.06419 | 1.05289E-06 | 2244.43 | 5142.7 |
| 9.30998E-10 | 1512.93 | 3275.2 | 2.16481 | | | |

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|-------------|---------|----------|---------|------------|-------|-------|
| 2.85917E-06 | 469.425 | 2276.275 | 4.84907 | 0.00243375 | 280.8 | 620.9 |
| 4.11716E-09 | 884.1 | 7569.85 | 8.56221 | | | |

/// 256112 /// 7587
/// 256112

0.000436992 959.025 377.6

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|-------------|---------|----------|---------|-------------|---------|---------|
| 9.10826E-11 | 635.875 | 4770.625 | 7.50246 | 1.49731E-11 | 1190.43 | 11253.6 |
| 8.86678E-06 | #DIV/0! | 2373.025 | #DIV/0! | 3.48378E-06 | 712.4 | 6247.85 |
| | | | | 3.18452E-10 | #DIV/0! | 1072.5 |
| | | | | 2.91119E-05 | #DIV/0! | 1151.5 |

/// 84307

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|------------|--------|---------|----------|-------------|---------|---------|
| 0.00159018 | 872.55 | 416.125 | -2.09685 | 1.41866E-09 | 7510.88 | 3242.18 |
|------------|--------|---------|----------|-------------|---------|---------|

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|-----------|---------|-------|----------|-------------|---------|---------|
| | | | | 8.09359E-06 | 5311.1 | 2462.28 |
| | | | | 6.73852E-05 | 2540.43 | 875.6 |
| 0.0010033 | 1387.25 | 630.8 | -2.19919 | 3.72099E-05 | 1271.48 | 424.75 |

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| | | | | 0.000217366 | 2144.3 | 1052.15 |
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| | | | | 6.68039E-05 | 696.375 | #DIV/0! |
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|-------------|---------|----------|---------|-------------|---------|----------|----------|-------------|---------|---------|
| | | | | 1.32084E-06 | 5173.88 | 2256.8 | -2.29257 | | | |
| | | | | 2.82255E-06 | 7329.1 | 3311.9 | -2.21296 | | | |
| | | | | 0.000905688 | #DIV/0! | 509.9667 | #DIV/0! | | | |
| 8.61237E-17 | 886.75 | 6862.375 | 7.73879 | 8.4501E-15 | 1934.2 | 10450.25 | 5.40288 | 2.60246E-13 | 2226.9 | 9703.65 |
| 3.61381E-08 | 1810.88 | 6965.3 | 3.84637 | 1.07902E-07 | 2206.78 | 7927.9 | 3.59253 | 6.3125E-09 | 2552.33 | 12342.5 |
| 5.27437E-11 | 1108.65 | 6050.15 | 5.45722 | 6.51341E-09 | 1670.65 | 6530.375 | 3.90888 | 2.25156E-10 | 1486.65 | 8102.93 |
| 6.81218E-06 | 516.567 | 2028.8 | 3.92747 | | | | | 3.54121E-08 | 587.4 | 3676.8 |
| 1.6294E-12 | 1189.08 | 6141.65 | 5.16507 | 3.93476E-13 | 1842.95 | 9180.075 | 4.98119 | 2.43748E-12 | 1890.98 | 8255.55 |
| 1.8487E-08 | 218.85 | 1453.125 | 6.63982 | 0.00038677 | 429.775 | 1198.7 | 2.78913 | 6.65809E-05 | 520 | 1379.48 |

4.29901E-06 2134.88 5549.33

41339

| | | | | | | | | | | |
|--|--|--|--|-------------|---------|--------|----------|-------------|---------|---------|
| | | | | | | | | 0.000117334 | 2194.85 | 899.475 |
| | | | | 0.000313897 | 15080.4 | 7185.4 | -2.09875 | 0.000294529 | 20813.1 | 8809.18 |
| | | | | | | | | 3.3723E-06 | 1269.68 | 549.975 |

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|--|--|--|--|-------------|---------|-------|----------|-------------|---------|---------|
| | | | | 0.000125729 | 758.025 | 300.2 | -2.52507 | 0.00408375 | 1061.48 | 482.475 |
| | | | | | | | | 7.16964E-06 | 850.325 | 296.125 |
| | | | | | | | | 5.20476E-06 | 2069.75 | 983.9 |
| | | | | | | | | 0.000170228 | 2409.55 | 1037.38 |

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|--|--|--|--|-------------|---------|---------|---------|-------------|---------|--------|
| | | | | 3.71371E-08 | 1130.05 | 2830.15 | 2.50445 | 3.68969E-06 | 1804.25 | 3691.7 |
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284323

2.41342E-05 843.25 418.35

0.000189753 2148.25 884.225

3.78789E-05 595.225 264.767

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|--|--|--|--|-------------|---------|----------|----------|--|--|--|
| | | | | 1.71919E-05 | 816.925 | 300.8 | -2.71584 | | | |
| | | | | 0.00011255 | 3386.43 | 1672.475 | -2.0248 | | | |

/// 115123

8.51193E-05 2081.68 965.975 -2.155

0.000884975 502.425 #DIV/0! #DIV/0! 7.78935E-06 591.625 #DIV/0!

1.60456E-06 1093.8 452.8

3.13399E-06 5710.2 1615.05 -3.53562 6.20607E-10 10290.2 1650.78

1.68024E-05 2033.2 875.45

/// 375449

2.6539E-06 1312.13 466.95 -2.80999 7.34259E-06 1987.38 759.25 -2.61755 0.000836066 1609.78 758.85

0.000277349 797.625 343.667

0.000459373 548.5 242.8

2.71691E-05 1470.88 642.775 -2.28832

0.00114937 825.325 380.175

4.5763E-06 1369.68 480.975

1.17517E-05 3011.35 1387.6 -2.17019 1.00951E-08 2813.38 910.7

0.00005637 1445.48 601.4

0.00136523 2403.78 994.725 -2.41652

0.00226671 1922.2 812.925

0.00145593 841.375 331.95

0.000658077 579.35 258.55 -2.24077

0.00019893 2005.73 699.025

1.21111E-06 2618.83 1289.25

1.56572E-05 1946.05 836.975 -2.3251 3.99759E-06 1873.8 694.875

1.81212E-05 2536.85 653.175 -3.88387

1.12559E-06 2068.75 362.85

1.13518E-07 11079.1 3584.25 -3.09104

1.57448E-08 10679 3174.45

2.43942E-09 6273.05 2011.03

2.43972E-06 8658.95 3348.8 -2.58569 2.35185E-10 10978.1 2367.8

2.43717E-05 1024.3 487.325

8.72622E-07 1955.25 742.633

0.000679433 1612.1 582.775

3.68956E-05 1789.35 894.475 -2.00045

7.20542E-11 3976.53 1056.55

9.83344E-06 2134.2 836.75

4.11065E-09 2764.1 720.975

1.67117E-08 18561.6 7803.85 -2.37851

2.3201E-09 22902 8889.75

7.69741E-06 1984.25 835.7

0.000194075 4907.93 1949.9 -2.51701

8.55756E-05 5409.33 2065.83

2.69031E-05 14426.4 5318.675 -2.7124

6.57786E-06 16077.7 6085.18

1.59483E-05 898.15 292.1 -3.0748 2.07808E-05 1470.8 522.025 -2.81749 1.39135E-06 1280 380.025

7.81124E-05 364.833 1534.55

0.000999888 1235.88 502.925

3.31264E-08 506.1 166.5

1.52347E-05 557.25 180.5 -3.08726

4.53516E-05 588.8 251.225

2.32212E-08 3934.35 1096.85 -3.58695 1.71143E-05 3247.63 1405.43

6.42005E-08 2307.35 979.2

1.45103E-05 1385.63 514.55 -2.69289 2.56491E-08 1791.65 483.975

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|-------------|--------|---------|----------|-------------|--------|--------|
| 6.55508E-06 | 9178.4 | 3776.15 | -2.43062 | 2.92622E-06 | 9431.2 | 3694.6 |
|-------------|--------|---------|----------|-------------|--------|--------|

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| 0.000132132 | 3141.43 | 924.825 |
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| 5.82979E-06 | 4292.28 | 1311.43 |
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| 5.22341E-07 | 968 | 445.75 |
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| 0.000011884 | 1246.28 | 528.05 |
| 5.46624E-07 | 1848.95 | 760.1 |
| 0.000124433 | 2343.2 | 1067.28 |

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| 2.34464E-05 | 3017.9 | 1466.28 |
| 1.4427E-11 | 9865.5 | 3276.85 |

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| 0.00195678 | 283.9 | 650.8 |
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| 7.21177E-08 | 573.4 | 215.967 |
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0.000205484 581.825 265.975 -2.18752

2.50948E-05 220.733 642.7

0.00423443 2141.28 995.1

2.98099E-09 466.475 1910.6

0.000127386 2471.8 5602.275 2.26648 5.74985E-07 1466 4941.85

0.000507013 556.55 1194.08

2.45638E-10 389.825 1641.6 4.21112 2.86E-13 282.325 1810.7 6.41353 9.05375E-13 329.975 1939.03

0.000106183 7278.9 2839.025 -2.56387 0.00165485 5779.35 2799.68

8.29152E-09 14072.6 32506.28 2.3099 6.37027E-07 12961.7 26935.5

2.8788E-06 13465.2 5662.875 -2.37781

4.14326E-06 743.225 1877.8 2.52656 1.53475E-09 521.433 2050.68

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|-------------|---------|----------|---------|-------------|---------|----------|---------|--|-------------|---------|---------|
| | | | | 0.000169669 | 2577.63 | 5167 | 2.00456 | | 1.28905E-05 | 1764.93 | 4350.58 |
| | | | | | | | | | 4.63101E-06 | 1431.7 | 3137.9 |
| | | | | 1.18581E-08 | 12605.7 | 31203.48 | 2.47535 | | 2.09623E-08 | 8770.48 | 22257.7 |
| | | | | | | | | | 6.61275E-09 | 312.85 | 1319.2 |
| | | | | 3.91338E-05 | 97.1 | 579.6 | 5.9691 | | 1.26793E-05 | 286.7 | 1697.05 |
| | | | | | | | | | | | |
| 3.83127E-05 | 1490.4 | 4247.725 | 2.85006 | 0.000225904 | 1483.8 | 3704.25 | 2.49646 | | | | |
| 5.72311E-06 | 397.033 | 979.325 | 2.46661 | 1.82336E-08 | 479.4 | 1424.2 | 2.9708 | | 2.31454E-08 | 582.55 | 1899.75 |
| | | | | | | | | | | | |
| | | | | 7.45552E-14 | 494.725 | 1923.55 | 3.88812 | | 1.17861E-11 | 654.725 | 2086.83 |
| | | | | | | | | | 0.00197684 | 567.1 | 1939.9 |
| | | | | 9.31817E-06 | 900.25 | 2908.975 | 3.2313 | | 8.82761E-06 | 774.633 | 2437.7 |
| | | | | | | | | | | | |
| | | | | 8.4754E-08 | 20514 | 49665.65 | 2.42106 | | 4.91672E-08 | 15303.9 | 39089.6 |
| | | | | | | | | | | | |
| 0.000027172 | 217.8 | 670.75 | 3.07966 | 4.54115E-06 | 247.15 | 924.95 | 3.74246 | | 1.1725E-08 | 274.125 | 1585.1 |
| | | | | | | | | | | | |
| | | | | | | | | | 0.00218473 | 6897.9 | 13962.7 |
| | | | | | | | | | | | |
| | | | | | | | | | 1.19618E-06 | 3519.78 | 8924.48 |
| | | | | | | | | | 0.00102594 | 6410.53 | 14118.7 |
| | | | | | | | | | | | |
| | | | | | | | | | 0.000385584 | 6395.55 | 17032.8 |
| | | | | | | | | | | | |
| 1.57331E-06 | 2477.78 | 8204.175 | 3.31111 | 3.85983E-11 | 1318.45 | 8231.275 | 6.24315 | | 1.04589E-13 | 894.25 | 9974.43 |
| | | | | 2.13401E-09 | #DIV/0! | 954.15 | #DIV/0! | | 3.41049E-12 | #DIV/0! | 1967.2 |
| | | | | | | | | | 0.00137082 | 844.15 | 2272.55 |

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| | | | | 2.63706E-05 | 2766.58 | 1210.18 |
| | | | | 0.000660309 | 721 | 1539.45 |
| | | | | 0.000961622 | 2073.15 | 7220.93 |
| | | | | 1.26539E-06 | #DIV/0! | 620.467 |
| 0.00238293 | 445.725 | 1113.625 | 2.49846 | | | |
| 0.00141371 | 615.55 | 1796.35 | 2.91828 | | | |

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| | | | | 3.62082E-05 | 1529.8 | 449.825 |
| | | | | 3.61873E-05 | 535.7 | 168.1 |
| | | | | 0.00402935 | 576.425 | 208.2 |
| 5.33802E-06 | 1652.3 | 405.675 | -4.07296 | 5.31591E-06 | 2023.7 | 511.325 |
| 1.1284E-09 | 2740.83 | 855.9 | -3.20227 | 2.70654E-10 | 2995.58 | 795.55 |
| | | | | 4.78293E-05 | 779.3 | 269.6 |
| 2.60478E-05 | 3354.08 | 1057.9 | -3.1705 | 4.80739E-06 | 3232.88 | 903.1 |
| | | | | 7.53366E-06 | 627.025 | 178.125 |
| | | | | 5.89959E-06 | 9785.78 | 3817.08 |
| 0.000124375 | 1009.75 | 456.7 | -2.21097 | 1.60859E-07 | 1937.15 | 780.875 |
| | | | | 2.10805E-10 | 2586.55 | 495.025 |
| | | | | 7.93068E-10 | 3941.75 | 873.725 |
| | | | | 1.98027E-06 | 3333.95 | 876.25 |
| | | | | 1.85897E-06 | 3947.2 | 996.075 |
| | | | | 0.00067447 | 795.05 | 345.5 |
| 0.000003016 | 4839.75 | 1598.9 | -3.02692 | 2.52939E-06 | 6634.88 | 2035.83 |
| 1.94001E-06 | 2586.13 | 969.675 | -2.667 | 5.01956E-06 | 2619.63 | 967.725 |

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| 5.89901E-05 | 605.4 | 247.2333 | -2.4487 | 1.22549E-05 | 627.95 | #DIV/0! |
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|-----------|---------|---------|----------|-------------|---------|---------|
| 0.0018698 | 1433.03 | 666.475 | -2.15016 | 8.09625E-06 | 2071.65 | 692.05 |
| | | | | 0.000716676 | 565.75 | 235.833 |

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| | | | | 0.000030129 | 3642 | 1213.53 |
|--|--|--|--|-------------|------|---------|

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| 0.000311946 | 643.625 | 317.65 | -2.02621 | 0.00035427 | 917.6 | 398.225 |
|-------------|---------|--------|----------|------------|-------|---------|

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| | | | | 0.000267425 | 1181.03 | 545.65 |
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| 9.97542E-07 | 5125.38 | 2138.6 | -2.3966 | 9.53074E-08 | 3827.38 | 1342.45 |
|-------------|---------|--------|---------|-------------|---------|---------|

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| 2.6473E-07 | 1067.83 | 297.8 | -3.58571 | 0.000880419 | 952.275 | 240.025 |
|------------|---------|-------|----------|-------------|---------|---------|

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| | | | | 0.000328933 | 819.675 | 408.8 |
|--|--|--|--|-------------|---------|-------|

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| | | | | 0.00374558 | 2842.78 | 938.3 |
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| | | | | 2.85217E-11 | 14032.8 | 5210.88 |
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| 6.11618E-06 | 4168.88 | 1781.9 | -2.33957 | 6.82242E-08 | 3457.03 | 1056.13 |
|-------------|---------|--------|----------|-------------|---------|---------|

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| | | | | 0.000687635 | 877.475 | 415.9 |
|--|--|--|--|-------------|---------|-------|

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| | | | | 1.61897E-07 | 15894.6 | 6430.25 |
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0.000040985 1194.55 469.3

2.56083E-05 1478.55 664.675 -2.22447 2.06482E-05 1838.38 821.5

7.24518E-05 4245.85 1911.325 -2.22142 5.30488E-05 4706.3 1927.38

0.000443046 656.525 178.7

0.000142844 726.375 268.333

0.000216739 935.425 457.675 -2.04386

3.80164E-05 9447.43 4599.85 -2.05386

5.99051E-05 11264.8 5206

0.000140318 653.25 230.6

1.78735E-05 3022 1242.83

6.12253E-05 3044.93 1070.375 -2.84473

0.00436214 4145.6 1889.4

1.11836E-05 559.125 267.3333 -2.09149

8.95565E-05 799.5 329.7667 -2.42444

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|-------------|---------|----------|----------|-------------|-------------|---------|---------|
| | | | | | 0.00406468 | 2552.45 | 1240.35 |
| 1.70442E-05 | 1895.63 | 615.475 | -3.07994 | 0.000182147 | 2105.08 | 862.325 | |
| 0.000367272 | 3645.9 | 1779.15 | -2.04924 | | | | |
| 0.000106163 | 3323.75 | 1123 | -2.95971 | | | | |
| 1.34572E-07 | 270 | 713.775 | 2.64361 | 1.03398E-07 | 303.933 | 827.975 | |
| | | | | 5.0165E-07 | 559.8 | 1435.6 | |
| | | | | 3.64422E-06 | 2571.3 | 6513.83 | |
| | | | | 4.36689E-07 | 551.375 | 1563.83 | |
| 2.06642E-06 | 2105.2 | 6958.425 | 3.30535 | 3.50981E-08 | 954.55 | 4284.65 | |
| | | | | 1.00181E-05 | #DIV/0! | 855.475 | |
| 4.30158E-05 | 741.9 | 2054.825 | 2.76968 | 7.68202E-07 | 717.425 | 2553.4 | |
| | | | | 3.55912 | 5.57309E-08 | 707.825 | |
| 6.39244E-05 | 3764.05 | 10349.25 | 2.7495 | 0.00114974 | 1050.75 | 2647.38 | |
| | | | | 2.46676E-08 | 2274.43 | 13295.5 | |
| | | | | 0.000221852 | 3213.5 | 8177.63 | |
| | | | | 0.000020309 | 1213.8 | 272.85 | |
| 5.16489E-05 | 2483.95 | 467.925 | -5.30844 | 5.56084E-07 | 3464.75 | 871.233 | |
| 4.6439E-06 | 2565.83 | 767.45 | -3.34331 | 0.00275594 | 2141.85 | 866.15 | |
| | | | | 0.000220515 | 981.075 | 477.1 | |
| | | | | 9.45764E-05 | 3314.43 | #DIV/0! | |
| | | | | 0.00309456 | 623.6 | #DIV/0! | |

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| | | | | | | | | | 3.27979E-07 | 8621.1 | 3594.23 |
| | | | | | | | | | 0.00154052 | 1016.88 | 424 |
| | | | | | | | | | 0.00228836 | 810.975 | 342.075 |
| | | | | | | | | | 1.34332E-08 | 1608.1 | 687.7 |
| | | | | 4.34325E-07 | 5136.05 | 1623.875 | -3.16284 | | 2.08592E-05 | 7805.43 | 3348.2 |
| | | | | | | | | | 1.56547E-05 | 950.775 | 439.65 |
| | | | | | | | | | 0.00273816 | 975.825 | 454.1 |
| | | | | 4.69634E-05 | 3087.48 | 1210.875 | -2.54979 | | 0.00167063 | 4309.88 | 2009.7 |
| | | | | | | | | | 3.63388E-05 | 3339.23 | 1557.15 |
| | | | | | | | | | 2.53796E-05 | 1427.08 | 669.95 |
| | | | | | | | | | 8.11129E-07 | 1552.15 | 735.325 |
| | | | | | | | | | 0.000538705 | 567.575 | 269.975 |
| | | | | | | | | | 0.00040361 | 5529.25 | 2630.5 |
| | | | | 1.67273E-05 | 2051.68 | 551.6 | -3.7195 | | 0.00212073 | 1720.55 | 825.35 |
| | | | | | | | | | 9.85097E-06 | 1415.9 | 685.55 |
| | | | | | | | | | 0.00261991 | 5201.73 | 2519.5 |
| | | | | | | | | | 0.00390312 | 2266.65 | 1107.58 |
| | | | | | | | | | 0.0001594 | 1763.85 | 863.475 |
| | | | | 7.28646E-05 | 1498.98 | 690.025 | -2.17235 | | 0.000739159 | 284.875 | 572.625 |
| | | | | | | | | | 0.000705773 | 306.05 | 616.2 |
| | | | | 0.000359063 | 308.367 | 621.15 | 2.01432 | | 0.000575078 | 275.425 | 556.45 |
| | | | | | | | | | 0.00291533 | 771.05 | 1565.15 |
| | | | | | | | | | 0.00176046 | 472 | 972.725 |
| | | | | | | | | | 0.000160287 | 1136.38 | 2385 |
| | | | | | | | | | 0.000183767 | 1044.78 | 2216.9 |
| | | | | 2.72248E-06 | 2058.68 | 5537.75 | 2.68996 | | 0.000282955 | 1609.6 | 3449.3 |
| | | | | | | | | | 3.20847E-05 | 1762.88 | 3804.6 |
| | | | | | | | | | 6.95219E-06 | 1610.65 | 3496.3 |
| | | | | 2.12407E-05 | 3963.15 | 7928.05 | 2.00044 | | 3.24591E-06 | 997.075 | 2169.9 |
| | | | | | | | | | 0.00191823 | 840.975 | 1853.83 |
| | | | | | | | | | 1.59446E-07 | 2792.73 | 6305.85 |
| | | | | | | | | | 2.06609E-05 | 659.6 | 1520.43 |
| | | | | | | | | | 0.000398674 | 573.825 | 1349.53 |
| | | | | | | | | | 4.74509E-05 | 405.3 | 956.8 |
| | | | | | | | | | 0.00166432 | 216.2 | 514.1 |
| | | | | | | | | | 6.36351E-06 | 630.4 | 1511.58 |
| | | | | | | | | | 0.000124329 | 573.025 | 1431.65 |
| | | | | | | | | | 1.04405E-05 | 890.275 | 2355.93 |
| | | | | 2.61937E-06 | 1354.85 | 3955.625 | 2.9196 | | 7.02209E-07 | 918.325 | 2464.05 |
| | | | | 1.26252E-05 | 1147.6 | 2543.05 | 2.21597 | | 1.89281E-06 | 603.05 | 1675.73 |
| | | | | | | | | | 1.33963E-05 | 582.575 | 1722.55 |
| | | | | 3.79324E-05 | 986.45 | 2712.825 | 2.75009 | | 1.19249E-05 | 200.2 | 1231.3 |
| | | | | 3.97073E-07 | 162.733 | 836.825 | 5.14231 | | 0.000309093 | #DIV/0! | 2378.03 |
| | | | | 2.64339E-06 | #DIV/0! | 2821.767 | #DIV/0! | | 0.00334319 | #DIV/0! | 568.125 |
| | | | | 0.000597909 | #DIV/0! | 540.225 | #DIV/0! | | 5.55685E-05 | #DIV/0! | 1149.4 |
| | | | | | | | | | 9.29389E-05 | 1002.08 | #DIV/0! |
| | | | | | | | | | 9.48955E-05 | #DIV/0! | 676.667 |
| | | | | | | | | | 0.000118134 | #DIV/0! | 1680.6 |
| | | | | | | | | | 0.000221157 | #DIV/0! | 891.633 |
| | | | | | | | | | 0.000465395 | 517.467 | #DIV/0! |
| | | | | | | | | | 0.000765418 | 768.85 | #DIV/0! |
| | | | | | | | | | 0.00129471 | 598.95 | #DIV/0! |
| | | | | | | | | | 0.00247334 | 611.925 | #DIV/0! |
| | | | | | | | | | 0.00428261 | 1081.37 | #DIV/0! |
| | | | | 2.37508E-08 | 8064.88 | 2719 | -2.96612 | | | | |
| | | | | 5.36936E-06 | 1940.25 | 678.1 | -2.8613 | | | | |
| | | | | 5.06125E-05 | 1471.05 | 523.525 | -2.80989 | | | | |
| | | | | 0.00144556 | 844.55 | 305.225 | -2.76698 | | | | |
| | | | | 0.00105134 | 1803.5 | 695.325 | -2.59375 | | | | |
| | | | | 3.16646E-07 | 16797.7 | 6803.325 | -2.46904 | | | | |
| | | | | 0.000893209 | 943.25 | 392.45 | -2.40349 | | | | |
| | | | | 8.03039E-06 | 2365.68 | 1011.3 | -2.33924 | | | | |
| | | | | 0.000105684 | 1367.83 | 623.95 | -2.1922 | | | | |

| | | | | | | | |
|-------------|---------|-----------|----------|-------------|---------|----------|----------|
| | | | | 0.000107537 | 2734.28 | 1253.55 | -2.18123 |
| | | | | 3.27317E-05 | 5795.7 | 2685.275 | -2.15833 |
| | | | | 8.80518E-07 | 34775.9 | 16302.18 | -2.13321 |
| | | | | 0.000186863 | 3032.38 | 1448.35 | -2.09368 |
| | | | | 0.0002145 | 6662.83 | 3226.775 | -2.06486 |
| | | | | 0.00111237 | 16579.1 | 8234.65 | -2.01333 |
| | | | | 0.000611086 | 433.075 | 881.925 | 2.03643 |
| | | | | 0.000401365 | 1029.67 | 2191.9 | 2.12875 |
| | | | | 0.00118789 | 340.975 | 781.575 | 2.29218 |
| 5.10167E-05 | 3645.28 | 10614.025 | 2.91172 | 1.18259E-05 | 2135.05 | 5550.2 | 2.59956 |
| | | | | 1.63151E-06 | 490.025 | 2073.85 | 4.23213 |
| | | | | 0.000201759 | #DIV/0! | 1882.067 | #DIV/0! |
| | | | | 0.00136214 | 766.775 | #DIV/0! | #DIV/0! |
| | | | | 0.00163166 | 793.433 | #DIV/0! | #DIV/0! |
| 1.24039E-06 | 2347.93 | 1112 | -2.11144 | | | | |
| 0.000147819 | 339.167 | 787.8 | 2.32275 | | | | |
| 2.23714E-05 | 123.1 | 637.95 | 5.18237 | | | | |

| LVS/ctrl \ANOVA (0.0160375) | 24 hr | | | | 48 hr | | | | KEY #DIV/0! = The |
|-----------------------------|-------------|---------|----------|-------------------|-------------|---------|----------|-------------------|----------------------|
| | Avg ctrl | Avg LVS | LVS/ctrl | ANOVA (0.0232922) | Avg ctrl | Avg LVS | LVS/ctrl | ANOVA (0.0232922) | |
| | 1.23631E-06 | 1286.93 | 462.675 | -2.78149 | 0.00487976 | 952.35 | #DIV/0! | #DIV/0! | |
| | 1.69008E-06 | 6132.9 | 2644.23 | -2.31936 | 9.11292E-05 | 1914.53 | 865.575 | -2.21185 | |
| | | | | | 2.63232E-11 | 11810.8 | 3088.3 | -3.82436 | |
| | | | | | 9.74554E-09 | 2291.47 | 5639.43 | 2.46105 | |
| | | | | | 0.00258678 | 5386.53 | 2477.3 | -2.17436 | |
| -3.2587 | 6.99012E-07 | 4729.33 | 1287.53 | -3.67319 | | | | | |
| -3.1731 | 7.44858E-06 | 2672.25 | 769.2 | -3.47406 | | | | | |
| | | | | | 0.000173996 | 6684.48 | 19223.4 | 2.87582 | |
| | | | | | 1.85978E-08 | 5407.08 | 18883.9 | 3.49243 | |
| | | | | | 2.98442E-06 | 1374.45 | 584.4 | -2.3519 | |
| | | | | | 0.020711 | 1549.7 | 573.125 | -2.70395 | |
| | | | | | 0.00691964 | 842.867 | 406.7 | -2.07245 | |
| -2.1382 | 3.53856E-05 | 2213.58 | 912.8 | -2.42504 | 3.44447E-05 | 3014 | 1280.8 | -2.35322 | |
| | | | | | 0.0180352 | 1326.8 | 440.067 | -3.015 | |
| | 0.004333 | 1064.73 | #DIV/0! | #DIV/0! | | | | | |
| | | | | | 0.00213823 | 1158.47 | 345.2 | -3.35593 | |
| | | | | | 0.00355717 | 1054.73 | 523.567 | -2.01452 | |
| | 0.000139618 | 919.667 | 183.7 | -5.00635 | | | | | |
| -2.5816 | 7.07502E-10 | 1427.65 | 340.6 | -4.19157 | | | | | |
| -4.24 | 0.00546574 | 744.375 | 340.15 | -2.18837 | | | | | |
| -2.9002 | 1.95269E-11 | 3440.65 | #DIV/0! | #DIV/0! | | | | | |
| | 0.000238847 | 1213.6 | 400.033 | -3.03375 | 3.35534E-05 | 3118.75 | 749.85 | -4.15917 | |
| | 2.49161E-07 | 1736.03 | 557.05 | -3.11646 | 1.34884E-10 | 4686.83 | 1001.08 | -4.68179 | |
| -2.3855 | 2.2982E-06 | 1547.8 | 569.075 | -2.71985 | 3.20845E-10 | 3143.9 | 737.3 | -4.26407 | |
| | 0.000026079 | 1654.43 | 668.925 | -2.47326 | 2.84153E-07 | 5366.5 | 1388.55 | -3.86482 | |
| | 0.000244453 | 575.425 | 183.1 | -3.14268 | | | | | |
| | 3.97464E-10 | 2565.05 | 7348.68 | 2.86492 | 8.64045E-11 | 2427.55 | 7343.38 | 3.02501 | |
| | | | | | 1.77428E-07 | 2453.73 | 10787.3 | 4.39629 | |
| | | | | | 0.000173397 | 1191.03 | #DIV/0! | #DIV/0! | |
| | 2.08831E-06 | 1441.13 | 529.2 | -2.72321 | 3.81383E-07 | 2780.25 | 630.3 | -4.41099 | |
| | 4.26019E-07 | 2032.2 | 683.1 | -2.97497 | 1.10811E-07 | 3055.43 | 1024.78 | -2.98156 | |
| | | | | | 0.00135648 | 946.175 | 352.5 | -2.68418 | |
| | | | | | 0.00288253 | #DIV/0! | 594.2 | #DIV/0! | |
| -2.0861 | | | | | | | | | |
| -2.277 | 8.3009E-06 | 28250.6 | 10123.4 | -2.79063 | | | | | |
| -2.2804 | 6.76308E-06 | 16597.8 | 7076.88 | -2.34535 | | | | | |
| -2.9117 | | | | | | | | | |
| -2.6519 | | | | | | | | | |
| | | | | | 1.47634E-06 | 2841.4 | 8220.8 | 2.89322 | |
| | 0.000189527 | 14414.7 | 30100.4 | 2.08818 | 3.79449E-13 | 3880.38 | 24163.6 | 6.22712 | |
| | | | | | 6.25536E-05 | 2266.15 | 827.967 | -2.73701 | |
| | 2.75817E-07 | 1290.55 | 496.925 | -2.59707 | 0.000680705 | #DIV/0! | 946.633 | #DIV/0! | |
| | 2.04605E-08 | 978.525 | 279.9 | -3.49598 | | | | | |
| -3.3827 | 1.03045E-05 | 1767.55 | 729.375 | -2.42338 | 2.16746E-07 | 2544.5 | 796.825 | -3.1933 | |
| | | | | | 4.98069E-05 | 1634.58 | 324.133 | -5.04291 | |
| | | | | | 1.1238E-07 | #DIV/0! | 3051.63 | #DIV/0! | |
| | | | | | 1.90466E-07 | 5122.45 | 14199.8 | 2.77208 | |
| | | | | | 1.27572E-06 | 2679.35 | 7659.23 | 2.85861 | |
| | 4.52329E-07 | 637.8 | #DIV/0! | #DIV/0! | | | | | |
| | 0.000100612 | 1301.2 | 405.675 | -3.20749 | 0.000854862 | 1896.38 | 658.35 | -2.8805 | |
| | 2.05972E-05 | 673.433 | #DIV/0! | #DIV/0! | | | | | |
| | 0.000117468 | 1074.78 | 339.767 | -3.16327 | | | | | |
| 2.39633 | 9.2973E-10 | 1392.05 | 6238.03 | 4.48118 | 6.11659E-09 | 2213.33 | 8455.5 | 3.82027 | |
| | | | | | 2.7756E-12 | 3252.78 | 7340.05 | 2.25655 | |
| | | | | | 1.75337E-05 | #DIV/0! | 2148.2 | #DIV/0! | |
| | 1.69849E-05 | 3778.78 | 7791.75 | 2.06198 | 4.85077E-09 | 2866.53 | 7971.8 | 2.781 | |
| 2.17772 | 1.69234E-05 | 705.367 | 2005.7 | 2.84349 | | | | | |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 0.000167119 | 760.133 | 193.05 | -3.93749 | 2.87741E-05 | 1621.78 | 483.667 | -3.35308 |
| | | | | | 0.0219347 | #DIV/0! | 1151.37 | #DIV/0! |
| | | | | | 0.00205473 | 1298.77 | 520.8 | -2.49379 |
| | 0.00322927 | 548.125 | 219 | -2.50285 | | | | |
| 5.80007 | | | | | 0.000475065 | 1152.77 | 477.6 | -2.41367 |
| | 1.41045E-05 | 1544.45 | 768.4 | -2.00996 | 1.36655E-07 | 2125.13 | 927.95 | -2.29013 |
| -2.5886 | 0.000744541 | 2447.13 | 1075.15 | -2.27608 | | | | |
| | 7.56341E-06 | 1123.7 | 559.2 | -2.00948 | | | | |
| | 2.03894E-08 | 5439.93 | 21247.3 | 3.90581 | 2.67725E-11 | 2724.7 | 14987 | 5.50042 |
| 2.84487 | 0.000430155 | 816.9 | 1993.53 | 2.44035 | | | | |
| | | | | | 3.64043E-06 | 1775.7 | 627.6 | -2.82935 |
| #DIV/0! | 3.54401E-08 | 2750.7 | 468.2 | -5.87505 | | | | |
| | 0.000182074 | 1486.97 | #DIV/0! | #DIV/0! | 0.000523602 | 2581.37 | 1058.77 | -2.43809 |
| | 5.27966E-07 | 984.05 | 411.725 | -2.39007 | 2.94189E-07 | 1594.95 | 527.675 | -3.0226 |
| | 0.00804148 | 717.133 | 206.4 | -3.47448 | | | | |
| | 8.4696E-06 | 20479.6 | 46968.3 | 2.29342 | 4.15306E-08 | 10117.4 | 30574.1 | 3.02193 |
| | 2.15733E-07 | 13100.2 | 37868.9 | 2.89072 | 4.08253E-09 | 5966.63 | 23498.6 | 3.93834 |
| | 0.000031259 | 1324.3 | 518.15 | -2.55582 | 9.95365E-06 | 1435.3 | 533.925 | -2.68821 |
| -2.2658 | 8.07819E-06 | 2213.88 | 901.1 | -2.45686 | 1.00802E-05 | 2962.6 | 1249.1 | -2.37179 |
| | | | | | 0.000257098 | 1919.05 | 13612 | 7.09311 |
| -2.8265 | 9.91644E-06 | 851.325 | 328.25 | -2.59353 | 3.4114E-06 | 1113.53 | 422.825 | -2.63354 |
| | | | | | 2.49256E-07 | 1673.9 | 524.7 | -3.1902 |
| -2.275 | | | | | | | | |
| | | | | | 9.79449E-09 | 5240.5 | 11699.3 | 2.23248 |
| | | | | | 9.74515E-11 | 2858.05 | 6155.93 | 2.15389 |
| 2.68578 | 5.75901E-06 | 3259.93 | 9458.73 | 2.90152 | 9.34265E-09 | 3303.88 | 13915.4 | 4.21184 |
| | | | | | 0.00019334 | 2130.9 | 518.2 | -4.11212 |
| | | | | | 0.000489608 | 2358.38 | 755.267 | -3.12257 |
| | | | | | 0.000895357 | 1075.83 | #DIV/0! | #DIV/0! |
| | | | | | 0.000314909 | 1198.28 | 2441.65 | 2.03764 |
| | 1.51141E-05 | 1236.1 | 468.567 | -2.63805 | 1.64049E-06 | 2910.33 | 784.3 | -3.71073 |
| | | | | | 7.28735E-06 | 1410.93 | 3741.8 | 2.65202 |
| | | | | | 0.000589002 | #DIV/0! | 1311.93 | #DIV/0! |
| | | | | | 0.00346726 | 1388.63 | 411.85 | -3.37168 |
| | | | | | 0.00180241 | 1111.33 | #DIV/0! | #DIV/0! |
| | 1.10375E-07 | 1674.38 | 660.575 | -2.53472 | | | | |
| | | | | | 0.000805003 | 914.867 | 310.9 | -2.94264 |
| | | | | | 0.00195466 | 848.925 | 266 | -3.19145 |
| -2.0253 | 9.90652E-06 | 927.925 | 355.967 | -2.60677 | 1.52722E-05 | 1209.55 | 465.5 | -2.59839 |
| 2.55165 | 4.17905E-11 | 2609.98 | 20926.2 | 8.01776 | 4.70729E-13 | 1968 | 19778.3 | 10.0499 |
| 3.21449 | 1.36512E-08 | 952 | 3975.5 | 4.17595 | 1.02153E-05 | #DIV/0! | 3543.33 | #DIV/0! |
| 2.57865 | | | | | | | | |
| | | | | | 0.00145245 | 3036.38 | 842.75 | -3.60294 |
| | | | | | 0.0108651 | 1311.75 | 601.45 | -2.18098 |
| | 0.00443118 | 1230.25 | 365.675 | -3.36433 | 0.000483871 | 3968.38 | 982.475 | -4.03916 |
| | | | | | 0.0126991 | 1232.8 | 392.55 | -3.14049 |
| | 0.000105595 | 1043.48 | 272.475 | -3.82962 | 5.03838E-05 | 2435.28 | 626.25 | -3.88866 |
| | 0.00151161 | 781.4 | #DIV/0! | #DIV/0! | 0.000423715 | 2406.2 | 822.5 | -2.92547 |
| | | | | | 2.86045E-05 | 1102.9 | #DIV/0! | #DIV/0! |
| | 0.00105866 | 621.1 | #DIV/0! | #DIV/0! | 0.00116162 | 1475.63 | 545.25 | -2.70633 |
| | 7.91437E-06 | 889.725 | 310.033 | -2.86977 | 7.09782E-07 | 1581.25 | 571.167 | -2.76846 |
| | | | | | 0.00127653 | 973.233 | #DIV/0! | #DIV/0! |
| | 0.0007207 | 524.15 | 98.6 | -5.31592 | | | | |
| | 9.42079E-06 | 719.933 | #DIV/0! | #DIV/0! | 0.000123519 | 1215.9 | 377.8 | -3.21837 |
| | 0.00132026 | 572.267 | 164.7 | -3.4746 | | | | |
| 52.5814 | 2.73495E-13 | 1618.85 | 80780.8 | 49.9001 | 2.70832E-11 | 6253.58 | 136427 | 21.8158 |
| | | | | | 4.20701E-05 | 5368.83 | 1999.93 | -2.68451 |
| | | | | | 4.90657E-05 | 1556.77 | 391.85 | -3.97286 |
| | 0.0017844 | 2794.65 | 1207.8 | -2.31384 | 0.00231061 | 4001.08 | 1902.75 | -2.10279 |
| -3.6746 | 3.31481E-08 | 6731.15 | 1935.6 | -3.47755 | 0.000027229 | 5510.13 | 2512.63 | -2.19298 |
| -3.7239 | 1.2425E-11 | 5882.13 | 1542.8 | -3.81263 | 6.66347E-07 | 4702.8 | 2174.65 | -2.16255 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 1.49869E-09 | 18496.3 | 43594.8 | 2.35695 | 1.44489E-20 | 5378.28 | 34856.4 | 6.48096 |
| | 4.95818E-09 | 7463.43 | 18385.4 | 2.46339 | 7.26985E-14 | 5497.75 | 20454 | 3.72043 |
| | | | | | 0.004252 | 744.3 | 279.467 | -2.66329 |
| -2.2404 | | | | | | | | |
| 3.64682 | 2.48109E-14 | 5845.43 | 88843.6 | 15.1988 | 5.03957E-17 | 6321.85 | 140828 | 22.2765 |
| -2.0277 | 5.25593E-08 | 1927.55 | 813.55 | -2.36931 | 2.02343E-07 | 1553.88 | 715.825 | -2.17075 |
| 5.62621 | 8.45824E-11 | 3857.75 | 18551.8 | 4.80897 | 1.99178E-12 | 2546.83 | 16008.1 | 6.2855 |
| | | | | | 0.0219384 | #DIV/0! | 1928.05 | #DIV/0! |
| -3.1453 | 4.21157E-09 | 5500.05 | 1035.9 | -5.30944 | 1.85245E-07 | 7645.6 | 1829.3 | -4.17952 |
| | 7.98947E-07 | 2354.53 | 6692.73 | 2.84249 | | | | |
| 2.1994 | | | | | 1.59443E-14 | 2141.28 | 7082.6 | 3.30766 |
| | 0.000112163 | 1185.18 | 393.45 | -3.01226 | 7.01824E-07 | 2385.2 | 627.55 | -3.80081 |
| | | | | | 4.04228E-05 | 1782.85 | 4550 | 2.55209 |
| | | | | | 6.55225E-13 | 3011.93 | 6428.13 | 2.13422 |
| | 1.69064E-06 | 2205.45 | 935.375 | -2.35782 | | | | |
| -2.3035 | 0.00122538 | 9189.78 | 3903.3 | -2.35436 | 0.000249585 | 2060.95 | 635.133 | -3.24491 |
| | 0.00824863 | 729.675 | 251.867 | -2.89707 | 1.08156E-08 | 5273.5 | 1685.98 | -3.12786 |
| | | | | | 9.95962E-07 | 7765.78 | 18346 | 2.36242 |
| | 1.4673E-06 | 5810.58 | 12584.2 | 2.16574 | 3.58677E-12 | 2699.98 | 9643.95 | 3.57187 |
| | | | | | 3.97094E-07 | #DIV/0! | 1059.2 | #DIV/0! |
| | | | | | 0.00536139 | #DIV/0! | 991.675 | #DIV/0! |
| | 0.00335958 | 2635.08 | 1216.98 | -2.16527 | | | | |
| | | | | | 1.3236E-08 | 4042.48 | 9025.73 | 2.23272 |
| | 0.000089351 | 1102.13 | 464.467 | -2.37288 | 3.50139E-10 | 2279.63 | 724.85 | -3.14496 |
| | | | | | 0.000386236 | 762.4 | #DIV/0! | #DIV/0! |
| | | | | | 0.0107567 | 1345.1 | 431.55 | -3.1169 |
| -2.2553 | | | | | | | | |
| -2.445 | 8.1539E-09 | 3686.15 | 1235.18 | -2.98431 | 3.71241E-10 | 6357.13 | 1742.05 | -3.64922 |
| | 0.0017471 | 724.6 | 356.833 | -2.03064 | | | | |
| | 0.0116939 | 665.433 | 193.55 | -3.43804 | | | | |
| | 0.0137092 | 596.15 | 257.975 | -2.31088 | | | | |
| 14.6056 | 6.75449E-16 | #DIV/0! | 14559.9 | #DIV/0! | 1.51193E-13 | 3191.7 | 16659.1 | 5.21949 |
| | 1.01306E-06 | 1277.93 | 450.45 | -2.837 | 5.77869E-10 | 2211.75 | 512.825 | -4.31287 |
| | | | | | 0.000218082 | 1236.03 | #DIV/0! | #DIV/0! |
| | | | | | 3.21603E-07 | 4359.88 | 10556.6 | 2.42131 |
| | 4.02905E-05 | 571.75 | 261.2 | -2.18894 | 8.43237E-05 | 968.625 | 339.7 | -2.85141 |
| | 1.43858E-06 | 2826.75 | 8455.3 | 2.99117 | 2.32422E-05 | 2721.85 | 5877.3 | 2.1593 |
| | 3.82277E-05 | 4227.05 | 10178.2 | 2.40787 | 7.39447E-05 | 3489.85 | 8185.33 | 2.34547 |
| | | | | | 0.000141085 | 2658.08 | 1304.25 | -2.03801 |
| | 0.0091882 | 1419.07 | 684.8 | -2.07224 | | | | |
| | | | | | 0.00127864 | 2888.05 | 7081.65 | 2.45205 |
| | 0.00021506 | 811.6 | 404.9 | -2.00445 | 0.000236857 | 1522.75 | 624.9 | -2.43679 |
| | | | | | 4.65401E-09 | 6212.45 | 12789.1 | 2.05862 |
| | 0.00674358 | 854.35 | 305.133 | -2.79992 | 0.0010021 | 1978.45 | 342.85 | -5.7706 |
| | 8.90637E-06 | 1686.93 | 512.4 | -3.2922 | 4.84277E-05 | 1707.33 | #DIV/0! | #DIV/0! |
| | 0.00015515 | 2110.15 | 641.2 | -3.29094 | 0.000320009 | 2088.57 | 917.8 | -2.27562 |
| | | | | | 0.000245351 | 1329.48 | 473.6 | -2.80717 |
| 2.51708 | 4.49944E-10 | 2937.6 | 9872.8 | 3.36084 | 4.14242E-11 | 2590.73 | 8849.78 | 3.41595 |
| 3.05023 | 1.44232E-10 | 2402.93 | 9574.35 | 3.98446 | 1.59175E-10 | 1990.58 | 7258.85 | 3.64661 |
| | 2.04284E-07 | 3563.65 | 1436.85 | -2.48018 | 1.9208E-10 | 5981.23 | 1589.68 | -3.76255 |
| -2.3735 | 0.000066669 | 861.05 | 397.925 | -2.16385 | 1.40304E-06 | 1677.7 | 564.25 | -2.97333 |
| #DIV/0! | 0.0010734 | #DIV/0! | 4400.43 | #DIV/0! | 2.04816E-05 | #DIV/0! | 8766.13 | #DIV/0! |
| #DIV/0! | | | | | 0.00060502 | 1704.8 | 3718.1 | 2.18096 |
| | | | | | 0.00495677 | 1700.4 | 3724.5 | 2.19037 |
| | 5.97582E-07 | 1527.8 | 4419.25 | 2.89256 | 2.56859E-07 | 1648.55 | 4361.23 | 2.64549 |
| 2.51718 | 9.95997E-05 | 2670.3 | 5385.63 | 2.01686 | 2.47765E-10 | 2249.08 | 8758.48 | 3.89426 |
| | 0.000695015 | 1930.88 | 4205.98 | 2.17827 | 7.68327E-12 | 844.5 | 5581.38 | 6.60909 |
| | | | | | 3.09316E-06 | 4060 | 1864.05 | -2.17805 |
| | 0.000898794 | 983.3 | 431.95 | -2.27642 | | | | |
| | 6.68535E-05 | 3394.73 | 1653.88 | -2.05259 | 5.87382E-06 | 3746.6 | 1631.5 | -2.29641 |
| | 0.00152703 | 3787.7 | 1881.43 | -2.01321 | | | | |
| | | | | | 0.00531837 | 1214.38 | 543.85 | -2.23292 |

| | | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|--|
| | | | | | 2.11201E-05 | 3635.73 | 766.45 | -4.74359 | |
| | 0.00138933 | 970.767 | 457.433 | -2.1222 | 0.00019709 | 1614.53 | 673.2 | -2.3983 | |
| | 0.00168066 | 1824.58 | 4740.13 | 2.59793 | 0.0013822 | 1983.95 | 4615.58 | 2.32646 | |
| | 0.00140171 | 1659.27 | #DIV/0! | #DIV/0! | 0.00018039 | 3250.3 | 1289.45 | -2.52069 | |
| | | | | | 0.00972068 | 561.233 | #DIV/0! | #DIV/0! | |
| | | | | | 2.77111E-05 | 1531.53 | 454.533 | -3.36944 | |
| | | | | | 0.00582148 | 1493.7 | 596.8 | -2.50285 | |
| | | | | | 7.28338E-05 | 1195.2 | 575.1 | -2.07825 | |
| 2.01929 | 9.06531E-06 | 2862.08 | 8806.45 | 3.07695 | | | | | |
| -2.4605 | 2.15679E-08 | 3079.23 | 814.625 | -3.77993 | 2.17043E-08 | 3011.18 | 868.95 | -3.4653 | |
| | 0.00165356 | 706.925 | #DIV/0! | #DIV/0! | 0.00124547 | 1621.15 | 716.9 | -2.26133 | |
| -2.823 | 0.00207702 | 1203.93 | 492.633 | -2.44386 | | | | | |
| | | | | | 0.00116473 | 5327.68 | 2272.15 | -2.34477 | |
| | 0.000543273 | 823.225 | 273.65 | -3.00831 | 2.35495E-06 | 1565.58 | 450.5 | -3.47519 | |
| -3.9018 | 3.21408E-07 | 1064.63 | 262.6 | -4.05417 | | | | | |
| #DIV/0! | 4.12266E-06 | 1712.17 | 516.5 | -3.31494 | | | | | |
| | 0.00254286 | 1267.9 | #DIV/0! | #DIV/0! | | | | | |
| 3.29848 | 1.59988E-08 | 3265.95 | 23608.3 | 7.22862 | 4.73619E-15 | 4066 | 27050.2 | 6.65277 | |
| 2.04353 | 3.20473E-07 | 31231.7 | 104479 | 3.3453 | 3.8071E-14 | 20479.9 | 151803 | 7.41228 | |
| 2.00874 | 5.21638E-07 | 30160.2 | 100740 | 3.34016 | 3.0651E-14 | 18869.9 | 147525 | 7.818 | |
| 31.9736 | 1.48718E-12 | #DIV/0! | 36998.2 | #DIV/0! | 5.04004E-12 | 6459.1 | 37684 | 5.83425 | |
| | | | | | 0.0022615 | 1050.35 | 251.1 | -4.18299 | |
| | | | | | 0.0033618 | 1641.5 | 609.4 | -2.69363 | |
| | | | | | 0.0117997 | 662.125 | 326.275 | -2.02935 | |
| | | | | | 0.0132201 | #DIV/0! | 996.367 | #DIV/0! | |
| | 7.39139E-11 | 5835.93 | 15097.6 | 2.58701 | 4.13101E-14 | 5311.03 | 16619.4 | 3.12922 | |
| | | | | | | | | | |
| | | | | | 1.76534E-07 | #DIV/0! | 1539.7 | #DIV/0! | |
| | | | | | 0.00494892 | #DIV/0! | 959.2 | #DIV/0! | |
| | | | | | 0.00028203 | 718.1 | 285 | -2.51965 | |
| | 1.72217E-05 | 6782.15 | 2878.53 | -2.35612 | | | | | |
| | | | | | 5.55878E-05 | 3241.48 | 6631.63 | 2.04587 | |
| | 2.50899E-05 | 45739 | 102470 | 2.24032 | 1.35736E-09 | 37071.4 | 125362 | 3.38163 | |
| | 5.11298E-05 | 821.45 | 336.067 | -2.44431 | 0.000907588 | 1035.13 | 397.5 | -2.60409 | |
| | | | | | 0.00586212 | 735 | 189.5 | -3.87863 | |
| | 4.47854E-06 | 1246.25 | 531.75 | -2.34368 | | | | | |
| 2.17722 | | | | | 0.000247772 | 2163 | 1056.93 | -2.0465 | |
| #DIV/0! | 7.42966E-06 | 1182.57 | #DIV/0! | #DIV/0! | 0.000146232 | 2338.68 | 948.5 | -2.46566 | |
| | | | | | 0.00146792 | 887.25 | 313.9 | -2.82654 | |
| -2.6692 | 0.000121792 | 11999.5 | 5647.95 | -2.12458 | | | | | |
| -2.1274 | 5.75321E-05 | 15615.5 | 7773.3 | -2.00887 | | | | | |
| 2.31529 | 2.46941E-09 | 1579.5 | 5700.18 | 3.60885 | 4.12213E-15 | #DIV/0! | 5237.6 | #DIV/0! | |
| | | | | | 0.00267395 | 1267.13 | 457.633 | -2.76887 | |
| | 8.99105E-05 | 1128.68 | 495.525 | -2.27774 | 7.21061E-06 | 2166.18 | 856.8 | -2.52822 | |
| 3.94682 | 4.88306E-09 | 738.4 | 4434.35 | 6.00535 | 7.80195E-09 | 1761.2 | 5477.43 | 3.11005 | |
| 2.7923 | 6.95336E-12 | 9290.85 | 41040.4 | 4.41729 | 2.14125E-15 | 8404.8 | 62157.3 | 7.39545 | |
| | 8.84411E-05 | 1750.38 | 649.725 | -2.69402 | 4.00775E-05 | 2183 | 944.3 | -2.31177 | |
| | 6.58484E-07 | 6004.73 | 2640.73 | -2.27389 | 1.02168E-06 | 8043.73 | 3846.58 | -2.09114 | |
| | | | | | 0.000001882 | 1026.78 | 270.7 | -3.79304 | |
| | | | | | | | | | |
| | 0.0154828 | 795.45 | 313.3 | -2.53894 | | | | | |
| -2.0312 | | | | | | | | | |
| -2.3834 | | | | | | | | | |
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| -3.5221 | 1.17157E-08 | 1628.63 | 417.5 | -3.9009 | 3.40861E-09 | 2215.48 | 408.25 | -5.42676 | |
| -2.9487 | 7.55001E-07 | 1776.98 | 468.4 | -3.79371 | 1.12905E-05 | 2300.25 | 730.533 | -3.14873 | |
| | 0.00517678 | 586.9 | 217.8 | -2.69467 | 0.000382012 | 1630.83 | #DIV/0! | #DIV/0! | |
| | 4.93531E-06 | 2288.5 | 855.233 | -2.67588 | 7.97488E-07 | 3961.28 | 1370.23 | -2.89097 | |
| | 0.00551061 | 511.425 | 105.75 | -4.83617 | 0.00446797 | 1412.23 | 408.45 | -3.45752 | |
| | 0.00120464 | 576.4 | 234.567 | -2.4573 | 2.35136E-06 | 1542.03 | 363.633 | -4.2406 | |
| | | | | | 0.00770056 | 1204.25 | 382.9 | -3.14508 | |
| | 0.0099403 | 744.9 | 204.4 | -3.64432 | | | | | |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 0.0011792 | #DIV/0! | 824.8 | #DIV/0! | | | | |
| | | | | | 2.28385E-12 | #DIV/0! | 879.075 | #DIV/0! |
| | | | | | 0.0212181 | #DIV/0! | 2323.9 | #DIV/0! |
| | | | | | 5.72268E-07 | 3619.4 | 1228.08 | -2.94721 |
| | | | | | 5.18723E-08 | #DIV/0! | 9813.93 | #DIV/0! |
| | | | | | 0.0010632 | #DIV/0! | 3158.13 | #DIV/0! |
| -2.0038 | | | | | 0.00120082 | 1254.1 | 595.4 | -2.10632 |
| | 3.60785E-13 | 16480 | 34483.9 | 2.09247 | 9.99273E-17 | 13702 | 36302.5 | 2.64944 |
| | | | | | 0.000533204 | #DIV/0! | 613.425 | #DIV/0! |
| | 5.07964E-08 | 3891.58 | 8770.78 | 2.25379 | | | | |
| | | | | | 2.27911E-07 | 2281.5 | 1041.25 | -2.19112 |
| | | | | | 0.0213377 | #DIV/0! | 697.675 | #DIV/0! |
| | 6.86616E-05 | 2727.03 | 5598.9 | 2.05312 | 1.98806E-10 | 1909.23 | 7344.1 | 3.84664 |
| | 1.35481E-05 | 609 | 1735.08 | 2.84906 | 6.41317E-09 | #DIV/0! | 2168 | #DIV/0! |
| | | | | | 0.001141 | #DIV/0! | 2244.23 | #DIV/0! |
| | 0.000282971 | 536.05 | 168.45 | -3.18225 | 0.01944 | 896.1 | 410.3 | -2.18401 |
| -2.0538 | | | | | | | | |
| | | | | | 6.29309E-06 | 1509.25 | 409.7 | -3.68379 |
| -2.1342 | 2.8582E-09 | 2294.45 | 740.575 | -3.0982 | 1.01162E-07 | 2699.38 | 1047.25 | -2.57758 |
| | | | | | 6.8701E-08 | 2181.73 | 854.075 | -2.55449 |
| | 1.56303E-06 | 873.55 | 392.567 | -2.22523 | | | | |
| -2.4064 | 3.17073E-06 | 2667.23 | 1068.65 | -2.49588 | | | | |
| | 5.57919E-08 | 6192.53 | 25693.1 | 4.14905 | 7.89214E-13 | 5488.2 | 24845.3 | 4.52703 |
| | 1.43109E-05 | 11456 | 31464.5 | 2.74656 | 7.82169E-12 | 5079.25 | 30754.7 | 6.05496 |
| | 9.02301E-07 | 12019.3 | 33677.3 | 2.80194 | 9.59649E-14 | 4353.25 | 31285.7 | 7.18675 |
| | 0.00133432 | 4264.73 | 9806.95 | 2.29955 | | | | |
| | 0.000113152 | 7229.4 | 17165.1 | 2.37434 | | | | |
| | 0.000105117 | 6473.55 | 15487.8 | 2.39247 | | | | |
| | 6.35591E-10 | 7764.45 | 26667.1 | 3.43452 | 3.65817E-16 | 3763.58 | 28437.1 | 7.55586 |
| | 0.00315673 | 954.8 | #DIV/0! | #DIV/0! | | | | |
| | 3.04402E-06 | 1525.5 | 508.125 | -3.00221 | 0.000650641 | 2069.5 | 944.133 | -2.19196 |
| | | | | | 1.47441E-05 | 2530.5 | 972.4 | -2.60232 |
| | | | | | 0.000288103 | 1851.78 | 783.933 | -2.36216 |
| | 0.00305287 | 3143.6 | 1329.9 | -2.36379 | 0.000487058 | 4495.83 | 1340 | -3.3551 |
| | 0.000275398 | 811.075 | 375.967 | -2.15731 | 0.000262725 | 1485.98 | 503.1 | -2.95364 |
| | 1.65328E-05 | 4097.98 | 1288.8 | -3.17968 | 0.000106281 | 3625.8 | 1226.43 | -2.9564 |
| -3.3907 | 0.00614995 | 1595.9 | 674.675 | -2.36544 | 0.00725564 | 1430 | 537.2 | -2.66195 |
| | 0.00017223 | 2173.13 | 986.05 | -2.20388 | | | | |
| | 8.42216E-05 | 878.125 | 427.5 | -2.05409 | | | | |
| | | | | | 6.42598E-05 | 3566.85 | 1324.78 | -2.69242 |
| | 1.27267E-07 | 2573.23 | 838.6 | -3.06848 | 0.00001274 | 3485.6 | 1475.45 | -2.3624 |
| | | | | | 3.78073E-07 | 1219.58 | 2482.23 | 2.03532 |
| | | | | | 1.55597E-08 | 1642.3 | 705.1 | -2.32917 |
| | 4.43079E-05 | 997.767 | 496.525 | -2.0095 | | | | |
| | | | | | 0.000805321 | 1091.9 | 343.1 | -3.18245 |
| | | | | | 2.98875E-11 | 17006.9 | 79174.1 | 4.65543 |
| | 8.69885E-09 | 5984.95 | 13446.8 | 2.24677 | 7.63697E-16 | 3731.05 | 17143.4 | 4.5948 |
| | 0.00185968 | 874.35 | #DIV/0! | #DIV/0! | 0.00278028 | 1702.95 | 608.167 | -2.80014 |
| | | | | | 6.86885E-11 | 1477.7 | 4022.05 | 2.72183 |
| | | | | | 2.11376E-10 | 1596.73 | 4753.43 | 2.97698 |
| | 1.03383E-09 | 32087.2 | 70233 | 2.18882 | 2.06658E-19 | 14540.6 | 79198.7 | 5.44675 |
| | 5.00417E-07 | 15003.5 | 31552.2 | 2.10298 | 2.2039E-16 | 6586.88 | 37812 | 5.74051 |
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| | 6.3978E-09 | 15061.6 | 33415.6 | 2.2186 | 4.21432E-18 | 7596.25 | 42769.5 | 5.63034 |
| | 1.26089E-09 | 7957.88 | 25834.7 | 3.24643 | 3.2969E-16 | 4377.08 | 33138.9 | 7.57101 |
| | 0.000742238 | #DIV/0! | 2611.28 | #DIV/0! | | | | |
| | | | | | 7.38595E-08 | #DIV/0! | 1505.3 | #DIV/0! |
| 2.03968 | 1.08672E-07 | 7610.28 | 25124.4 | 3.30138 | 5.11668E-14 | 3567.05 | 24685.1 | 6.92031 |
| | | | | | 4.09455E-06 | 1959.43 | 5834.75 | 2.97779 |
| | | | | | 2.17078E-07 | #DIV/0! | 1057.9 | #DIV/0! |
| | 6.48066E-06 | 3873.95 | 8342.8 | 2.15356 | 1.26435E-09 | 2464.18 | 8167.18 | 3.31436 |

| | | | | | | | | |
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| | | | | | 4.89346E-18 | 5773.38 | 24330.8 | 4.21432 |
| | 0.00473147 | #DIV/0! | 2187.17 | #DIV/0! | 1.04889E-07 | #DIV/0! | 3130.07 | #DIV/0! |
| 9.01322 | 0.000518845 | 2214.48 | 8704.53 | 3.93074 | | | | |
| | | | | | 1.00872E-05 | #DIV/0! | 1272.07 | #DIV/0! |
| -2.5337 | 9.72786E-07 | 9281.1 | 3489.33 | -2.65986 | | | | |
| | 0.00122821 | 867.167 | 1853 | 2.13684 | 3.47836E-08 | 1038.37 | 3655.4 | 3.52034 |
| -2.8155 | 5.55217E-06 | 26374.6 | 10582.9 | -2.49219 | | | | |
| | 0.000416131 | 3373.28 | 8502.1 | 2.52043 | 4.38854E-05 | 2659.58 | 7450.58 | 2.80142 |
| | 0.000408145 | 2417.18 | 6511.8 | 2.69397 | 1.22279E-07 | 1283.05 | 6330.13 | 4.93365 |
| | | | | | 0.000534407 | #DIV/0! | 2275.5 | #DIV/0! |
| | | | | | 9.56256E-08 | 14372.9 | 42091.3 | 2.92853 |
| | | | | | 1.2824E-07 | 14377.2 | 43752.9 | 3.04321 |
| | | | | | 4.67507E-08 | 1586.68 | 3904.35 | 2.46071 |
| | 6.81931E-14 | 4838.08 | 18370.6 | 3.79708 | 7.96636E-17 | 2781.13 | 15385.2 | 5.53199 |
| | | | | | 2.85043E-06 | #DIV/0! | 3779.07 | #DIV/0! |
| -2.0418 | 7.98149E-06 | 8729.83 | 3981.9 | -2.19238 | | | | |
| | 0.00664305 | 1029.93 | 361.3 | -2.85061 | 0.00319596 | 2001.78 | 540.2 | -3.70562 |
| | 0.000372449 | 1447.23 | 615.975 | -2.34949 | 6.36469E-08 | 3473.78 | 959.867 | -3.61902 |
| | 0.000202655 | 1309.15 | 434 | -3.01647 | 1.62364E-06 | 2819.78 | 783.4 | -3.59941 |
| 2.09438 | 0.000140197 | 1159 | 2480.3 | 2.14003 | 6.28749E-06 | 921.5 | 2244.78 | 2.436 |
| | 1.11841E-10 | 3556.43 | 7845.83 | 2.2061 | 9.71702E-13 | 3338.53 | 8222.03 | 2.46277 |
| 2.23904 | 0.000004987 | 698.4 | 2583.35 | 3.69895 | 1.49525E-08 | #DIV/0! | 2142.75 | #DIV/0! |
| 2.33091 | 9.92786E-06 | 3122.35 | 7886.38 | 2.52578 | 1.52369E-08 | #DIV/0! | 7418.63 | #DIV/0! |
| | | | | | 2.81184E-05 | 3466.88 | 1700.25 | -2.03904 |
| 2.03434 | | | | | | | | |
| -4.8864 | 4.30249E-16 | 15293.9 | 1561.03 | -9.79733 | 6.74803E-16 | 11959 | 1388.7 | -8.61162 |
| | | | | | 0.00379347 | 1209 | 590.175 | -2.04854 |
| | | | | | 1.34557E-07 | 1806.2 | 649.067 | -2.78276 |
| | | | | | 0.0189164 | #DIV/0! | 631.933 | #DIV/0! |
| | | | | | 1.90737E-11 | 2087.8 | 6923.45 | 3.31615 |
| | | | | | 4.47645E-05 | #DIV/0! | 3451.38 | #DIV/0! |
| | 0.000443086 | 1120.77 | 257.225 | -4.35715 | 3.79116E-06 | 1904.08 | 570.7 | -3.33639 |
| | | | | | 5.86278E-15 | 2771.1 | 5616.93 | 2.02697 |
| 2.17297 | 8.0923E-12 | 3949.4 | 11791.9 | 2.98574 | 2.2528E-09 | 3951.23 | 8959.28 | 2.26747 |
| | 6.46789E-10 | 4753.03 | 11785.9 | 2.47967 | 2.66879E-15 | 2155.15 | 8359.63 | 3.87891 |
| 2.00017 | 1.79843E-12 | 3296.7 | 8398.58 | 2.54757 | | | | |
| | 0.00081538 | 1592.13 | 759.15 | -2.09725 | | | | |
| | 0.00430009 | 1799.63 | 728.25 | -2.47116 | 0.00713014 | 3948.7 | 1608.9 | -2.45429 |
| | 0.00203582 | 1197.45 | 497.875 | -2.40512 | | | | |
| | | | | | 2.52641E-06 | 1043.97 | #DIV/0! | #DIV/0! |
| | | | | | 9.43019E-05 | 1856.65 | 879.65 | -2.11067 |
| 5.49875 | 9.41217E-12 | 737.2 | 5311.4 | 7.20483 | 1.92657E-08 | #DIV/0! | 2886.65 | #DIV/0! |
| 4.85074 | 9.04505E-09 | 3697.7 | 15096.3 | 4.08261 | | | | |
| | 1.04361E-05 | 5867.7 | 14489.5 | 2.46937 | 4.53912E-08 | 5351.55 | 17779.6 | 3.32233 |
| -2.0984 | | | | | | | | |
| | 4.22461E-06 | 1064.1 | 385.85 | -2.75781 | 7.47649E-06 | 1750.25 | 506.933 | -3.45262 |
| -3.597 | 1.14017E-08 | 10212.5 | 3124.53 | -3.2685 | 1.38091E-06 | 15029 | 5862.15 | -2.56374 |
| | 0.000123648 | 2079.75 | 4989.18 | 2.39893 | 2.35854E-08 | 1110.1 | 3666.03 | 3.30243 |
| | | | | | 3.16619E-07 | 5933.15 | 17719.7 | 2.98655 |
| | 2.37215E-06 | 5910.68 | 14411 | 2.43813 | 1.42926E-09 | 3743.75 | 13871 | 3.70511 |
| | 2.97649E-06 | 1980.8 | 606.85 | -3.26407 | 4.02556E-07 | 3851.6 | 1068.83 | -3.60358 |
| | 5.3579E-07 | 1537.78 | 535.8 | -2.87005 | 5.76255E-06 | 2210.4 | 804.25 | -2.7484 |
| | | | | | 0.0065569 | 1416.97 | 427.6 | -3.31377 |
| | | | | | 0.0016667 | 1434.33 | 528.5 | -2.71397 |
| | 2.74587E-06 | 2718.6 | 1310.93 | -2.0738 | | | | |
| 2.43346 | 3.44212E-16 | 1967.38 | 10155.1 | 5.16174 | 1.50224E-17 | 1634.68 | 9960.38 | 6.09318 |
| 2.34796 | 2.04983E-06 | 2472.4 | 7638.6 | 3.08955 | 8.90511E-11 | 2577.85 | 16998.2 | 6.59393 |
| | 0.000340656 | #DIV/0! | 1600.07 | #DIV/0! | | | | |
| | 0.00248511 | #DIV/0! | 890.133 | #DIV/0! | | | | |

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| | | | | 8.2823E-08 | #DIV/0! | 4721.03 | #DIV/0! | |
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| | | | | 6.81573E-11 | 13123.3 | 33090.8 | 2.52154 | |
| | | | | 6.6223E-11 | 3413.4 | 8363.68 | 2.45025 | |
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| | | | | 2.62673E-09 | 7632.98 | 22150.9 | 2.902 | |
| | 8.13949E-08 | 13838.2 | 48561.7 | 3.50926 | 5.20269E-13 | 6333.98 | 40661.5 | 6.41958 |
| | | | | | 2.05657E-12 | 5632.85 | 30600 | 5.43242 |
| #DIV/0! | | | | | 1.61931E-09 | 940.267 | 2724.8 | 2.8979 |
| | | | | | 0.00337083 | 2093.48 | 716.85 | -2.92038 |
| | 0.000707989 | 733.875 | 356.2 | -2.06029 | | | | |
| | 1.00908E-05 | 1463.48 | 449.55 | -3.25542 | 1.7714E-06 | 3104.6 | 812 | -3.8234 |
| | | | | | 0.00119527 | 1388.88 | 552.775 | -2.51255 |
| | | | | | 1.79378E-11 | 49295.4 | 136010 | 2.75908 |
| | | | | | 2.28477E-16 | 17763.5 | 78688.9 | 4.4298 |
| | | | | | 3.62585E-15 | 20562.7 | 107467 | 5.22631 |
| | 8.40552E-11 | 18945.7 | 62471.4 | 3.29739 | 5.0851E-18 | 6578.4 | 50126.1 | 7.6198 |
| | | | | | 9.58519E-05 | 3876.45 | 915.4 | -4.23471 |
| | 7.38345E-05 | 4734.45 | 1079.55 | -4.38558 | 0.000035506 | 2987.88 | 755.55 | -3.95457 |
| | 0.0018417 | 2149.73 | 933.025 | -2.30404 | 0.000273571 | 3355.25 | 1201.85 | -2.79174 |
| | 0.0120522 | 3015.43 | 1362.17 | -2.2137 | | | | |
| | 0.00101215 | 799.333 | 281.6 | -2.83854 | 9.67866E-06 | 1421.75 | 573.65 | -2.47843 |
| 4.68556 | 2.37925E-14 | 1242.48 | 7546.1 | 6.07344 | 1.72348E-14 | 2461.2 | 7133.93 | 2.89856 |
| 3.44192 | 3.76477E-08 | 1078.3 | 4212.38 | 3.9065 | 5.19717E-10 | 1228 | 4075.33 | 3.31867 |
| | | | | | 0.0010036 | #DIV/0! | 936.525 | #DIV/0! |
| -2.903 | 5.88609E-06 | 1291.68 | 546.2 | -2.36484 | | | | |
| | 0.0130985 | 882.133 | 347.167 | -2.54095 | 0.00435145 | 1449.68 | 537.8 | -2.69557 |
| | | | | | 0.000147749 | #DIV/0! | 2300.05 | #DIV/0! |
| | | | | | 0.00112167 | 1692.58 | 281.25 | -6.01804 |
| | | | | | 0.0216145 | 1094 | #DIV/0! | #DIV/0! |
| | 2.73766E-07 | 4388.58 | 1206.97 | -3.63604 | 6.57315E-09 | 6798.3 | 1175.3 | -5.78431 |
| | 0.00626449 | 1604.4 | 636.4 | -2.52106 | 7.59807E-07 | 2457.25 | #DIV/0! | #DIV/0! |
| | 5.00826E-05 | 1228.4 | 364.5 | -3.3701 | 4.80009E-06 | 2953.9 | 721 | -4.09695 |
| | 0.00149523 | 897 | 432.05 | -2.07615 | 0.000245804 | 1633.07 | 772.25 | -2.11469 |
| | 0.0140512 | 783.567 | #DIV/0! | #DIV/0! | 0.00166424 | 1515.03 | 312.5 | -4.84811 |
| | | | | | 4.79822E-05 | 3119 | 607.175 | -5.1369 |
| | | | | | 7.42958E-11 | 3547.2 | 933.9 | -3.79827 |
| 2.106 | | | | | 1.15902E-08 | 1168.3 | 2400.43 | 2.05463 |
| | 6.24089E-09 | 1194.5 | 2874.43 | 2.40638 | 8.41357E-10 | 1918.83 | 6216.95 | 3.23998 |
| | | | | | 1.32557E-12 | 15502.6 | 36577.6 | 2.35945 |
| | | | | | 0.009113 | 1058.3 | 435.633 | -2.42934 |
| -2.0887 | 8.90221E-08 | 2577.28 | 863.1 | -2.98607 | 6.08784E-07 | 1748.65 | 721.325 | -2.42422 |
| | 7.83876E-06 | 13147.1 | 5878.68 | -2.2364 | 1.97591E-06 | 23187.2 | 10389 | -2.23189 |
| | | | | | 1.17839E-14 | 6182.63 | 19468.3 | 3.14887 |
| | 6.51556E-09 | 2426.65 | 5625.05 | 2.31803 | 1.45132E-13 | #DIV/0! | 4981.58 | #DIV/0! |
| | 0.0110932 | 612.625 | 262.133 | -2.33707 | | | | |
| | 5.53626E-08 | 16008.1 | 52185.2 | 3.25992 | 5.43839E-15 | 5204.58 | 40358.6 | 7.75444 |
| | | | | | 0.00163413 | 1397.93 | 659.7 | -2.11903 |
| | | | | | 3.6812E-13 | 15247.8 | 40339.6 | 2.6456 |
| | | | | | 4.06131E-06 | 5916.3 | 1866.13 | -3.17037 |
| | | | | | 9.63952E-07 | 2966.6 | 6157.28 | 2.07553 |
| | 1.02353E-05 | 3085.65 | 6451.65 | 2.09086 | 3.42059E-07 | 2333.9 | 5584.95 | 2.39297 |
| | 0.000123281 | 3084.28 | 7283.38 | 2.36145 | 7.06462E-08 | #DIV/0! | 5662.55 | #DIV/0! |
| 2.45058 | | | | | | | | |
| 2.06085 | 9.08208E-12 | 1199.35 | 5496.15 | 4.58261 | 1.27636E-09 | 1595.2 | 4382.95 | 2.74759 |
| | 0.000714756 | 829.625 | 382.7 | -2.16782 | 0.000184081 | 1200 | 482.1 | -2.48911 |
| | 0.00335403 | 3000.8 | 1440.83 | -2.0827 | | | | |
| | 0.000695718 | 2127.68 | 1054.38 | -2.01795 | | | | |
| | 0.00870143 | 1605.33 | 744.65 | -2.15582 | | | | |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00441032 | 1999.6 | 974.55 | -2.05182 |
| 2.0966 | | | | | 1.0046E-08 | #DIV/0! | 837.9 | #DIV/0! |
| | 2.06181E-05 | 6520.95 | 2641.73 | -2.46844 | | | | |
| 2.82461 | 1.02477E-07 | 943.125 | 2581.6 | 2.73728 | 2.7589E-06 | 998.725 | 2079.85 | 2.08251 |
| 2.18915 | 6.54963E-12 | 2367.98 | 11595.1 | 4.89663 | 5.71889E-13 | 2415.83 | 10229.6 | 4.23441 |
| 2.71617 | 0.000169631 | 614 | 1265.3 | 2.06075 | | | | |
| 3.1996 | 3.05794E-07 | 686.85 | 2018.15 | 2.93827 | | | | |
| 3.52262 | 1.00747E-05 | #DIV/0! | 1568.53 | #DIV/0! | | | | |
| | 0.00460912 | 1778.1 | 5922.88 | 3.33101 | 0.00256269 | #DIV/0! | 3616.08 | #DIV/0! |
| | | | | | 8.76298E-10 | 197647 | 83263.1 | -2.37376 |
| | | | | | 5.13035E-10 | 2637.9 | 7221.83 | 2.73772 |
| | 0.00267893 | 606.9 | #DIV/0! | #DIV/0! | 0.000605655 | 823.9 | 336.6 | -2.44771 |
| | | | | | 0.00371734 | 3330.05 | 1433.6 | -2.32286 |
| -2.1149 | | | | | 2.7007E-13 | 1451.3 | 8015.05 | 5.52267 |
| -2.0491 | | | | | 5.55107E-14 | 3778 | 21458.6 | 5.67988 |
| -2.1186 | | | | | 6.36395E-15 | 2880.2 | 21480.7 | 7.45804 |
| | 0.000252112 | 1835.78 | 909.933 | -2.01748 | 1.85514E-06 | 2868 | 1071.23 | -2.67731 |
| | | | | | 6.50025E-05 | 2124.6 | 893.225 | -2.37857 |
| | | | | | 7.51274E-07 | #DIV/0! | 1500.78 | #DIV/0! |
| | | | | | 0.000623674 | #DIV/0! | 5131.03 | #DIV/0! |
| -2.0922 | 9.11754E-07 | 11574.3 | 4141.9 | -2.79443 | 8.8058E-08 | 12977.6 | 4493.6 | -2.88802 |
| | | | | | 3.30718E-07 | 2799.97 | 1039.13 | -2.69452 |
| | | | | | 3.84124E-07 | 6304.78 | 13385.8 | 2.12312 |
| | | | | | 0.00460308 | 592.433 | #DIV/0! | #DIV/0! |
| | 1.05028E-10 | 8699.78 | 27620.6 | 3.17486 | 3.31131E-12 | 4365.3 | 16030.6 | 3.67228 |
| | 3.86321E-08 | 27962.2 | 13658.3 | -2.04726 | | | | |
| | 0.0115596 | 672.925 | 311.267 | -2.16189 | 0.000485055 | #DIV/0! | 1788.48 | #DIV/0! |
| | | | | | 5.49585E-05 | 1435.15 | #DIV/0! | #DIV/0! |
| | | | | | 2.68527E-18 | 11778.6 | 55560.5 | 4.71707 |
| | 1.73817E-14 | 17717.5 | 52961.3 | 2.98921 | 5.31693E-21 | 11082.6 | 58448.7 | 5.27393 |
| | | | | | 2.21658E-15 | 9456.53 | 32581.6 | 3.44541 |
| | | | | | 0.00526792 | 1203.9 | 479.95 | -2.50839 |
| | | | | | 0.0187212 | 2155.83 | 940.5 | -2.29221 |
| | | | | | 1.80117E-12 | 21893 | 52544.4 | 2.40006 |
| | | | | | 1.21346E-16 | 14397.7 | 49487.9 | 3.43721 |
| | | | | | 1.13546E-19 | 12846.8 | 49388.1 | 3.84439 |
| | | | | | 0.00116101 | 1161.25 | 427.9 | -2.71384 |
| | | | | | 1.1119E-06 | 2148.95 | 6201.13 | 2.88565 |
| | | | | | 1.76073E-11 | 18182.1 | 48674.8 | 2.67708 |
| | | | | | 1.37334E-10 | 1923.1 | 5657.35 | 2.94179 |
| | | | | | 9.25779E-05 | 689.4 | 2231.7 | 3.23716 |
| 2.15815 | 7.30812E-09 | 8028.6 | 24169.5 | 3.01043 | 1.79896E-14 | 3457.9 | 19713.6 | 5.70102 |
| | 2.83099E-11 | 9298.35 | 32900.7 | 3.53834 | 3.83435E-16 | 4548.18 | 28030.9 | 6.16311 |
| | 7.84297E-16 | 6079.95 | 25137.6 | 4.13451 | 5.34654E-20 | 2592.48 | 16810 | 6.48414 |
| 2.21182 | 7.05944E-13 | 5866.5 | 25307.8 | 4.31394 | 2.94042E-16 | 2701.33 | 17592.6 | 6.51259 |
| | | | | | 1.51437E-17 | 6475.13 | 29478.7 | 4.55261 |
| | 1.13587E-08 | 5379.35 | 20338.5 | 3.78085 | 5.3605E-09 | 6895.9 | 25703.7 | 3.72739 |
| | | | | | 1.09253E-13 | 19985.6 | 66587.6 | 3.33178 |
| | | | | | 0.00017853 | 1537.33 | 577.525 | -2.66192 |
| | 1.02284E-05 | 11757.8 | 5083.08 | -2.31313 | 6.24217E-05 | 21730.2 | 9950.45 | -2.18384 |
| | | | | | 1.68166E-05 | 1582.08 | 684.525 | -2.3112 |
| | 8.06372E-07 | 725.85 | 337.3 | -2.15194 | 5.79295E-10 | 2125.9 | 459.867 | -4.62286 |
| | 2.97184E-08 | 1176.75 | 434.7 | -2.70704 | 7.20926E-07 | 1382.65 | 635.5 | -2.17569 |
| | 0.000129878 | 1206.2 | #DIV/0! | #DIV/0! | 5.55106E-07 | 3694.65 | #DIV/0! | #DIV/0! |
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| | 6.73242E-06 | 2938.4 | 698.95 | -4.20402 | 3.7609E-06 | 4369.95 | 1169.07 | -3.73798 |
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| | | | | | 1.28988E-07 | #DIV/0! | 2883.6 | #DIV/0! |
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| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.000975514 | #DIV/0! | 1844.1 | #DIV/0! |
| | | | | | 0.000317374 | 2159.83 | 1065.03 | -2.02796 |
| | | | | | 0.00209039 | #DIV/0! | 2911.18 | #DIV/0! |
| | | | | | 3.36849E-12 | 4174.18 | 9275.2 | 2.22204 |
| | | | | | 4.97399E-14 | 4804.65 | 11492 | 2.39184 |
| | | | | | 0.0021976 | 2873.35 | 626.45 | -4.58672 |
| -2.146 | 4.02415E-05 | 912.55 | 363.05 | -2.51357 | | | | |
| #DIV/0! | 0.000166708 | 1074.4 | #DIV/0! | #DIV/0! | | | | |
| 6.23239 | 1.8457E-13 | 3190.6 | 38475.6 | 12.059 | 2.08209E-13 | 3283.38 | 30818.9 | 9.38636 |
| -3.8568 | 1.04762E-13 | 7962.45 | 1004.33 | -7.92816 | 8.7497E-10 | 7013.65 | 1673.83 | -4.19019 |
| | 2.17182E-06 | 30000.1 | 79011.5 | 2.6337 | 2.62398E-16 | 9285.13 | 91872.9 | 9.89463 |
| 2.19103 | 1.03359E-10 | 10660.5 | 36490.9 | 3.423 | 9.83486E-11 | 7407.75 | 24039.7 | 3.24521 |
| 2.07825 | 8.67615E-13 | 11372.7 | 54616.3 | 4.80242 | 1.55608E-14 | 7394 | 38238 | 5.17149 |
| | 1.15622E-05 | 673.025 | #DIV/0! | #DIV/0! | 4.79213E-05 | 2030.23 | 418.65 | -4.84946 |
| -3.0896 | | | | | | | | |
| | | | | | 7.75619E-06 | 1363.83 | 486.55 | -2.80307 |
| #DIV/0! | | | | | | | | |
| | | | | | 3.62193E-09 | 1292.73 | 308.8 | -4.18631 |
| | | | | | 8.8518E-06 | 1492.25 | 451.8 | -3.3029 |
| | 3.25666E-06 | 3550.58 | 12909.5 | 3.63589 | 5.63179E-09 | 2822.8 | 8889.88 | 3.14931 |
| | 2.73212E-06 | 15741.8 | 42488.6 | 2.69909 | 7.85396E-13 | 4610.2 | 35896.3 | 7.78628 |
| 2.29124 | 0.000033677 | 315.2 | 1066.63 | 3.38396 | | | | |
| | | | | | 7.31187E-12 | #DIV/0! | 970.9 | #DIV/0! |
| | | | | | 6.74507E-05 | #DIV/0! | 940.167 | #DIV/0! |
| | | | | | 0.00420018 | #DIV/0! | 1504.33 | #DIV/0! |
| 2.61732 | | | | | | | | |
| 3.33687 | 0.000134671 | 4334.05 | 12542.1 | 2.89385 | | | | |
| 3.93376 | 7.80993E-13 | 3793.83 | 15007.6 | 3.9558 | | | | |
| | 0.0054524 | 1948.6 | 628.625 | -3.09978 | 0.000770911 | 5638.85 | 1107.65 | -5.09082 |
| | 0.00134492 | 1225.3 | 327.6 | -3.74023 | 0.000374676 | 3575.7 | 834.3 | -4.28587 |
| | | | | | 0.000192105 | #DIV/0! | 1600.7 | #DIV/0! |
| | 3.6919E-07 | 919.25 | 336 | -2.73586 | | | | |
| | 5.05439E-05 | 950.475 | 312.625 | -3.0403 | 0.000176451 | 1311.53 | 492.5 | -2.66299 |
| | 7.52206E-05 | 1301.25 | 519.175 | -2.50638 | | | | |
| | 0.00327158 | #DIV/0! | 1881 | #DIV/0! | | | | |
| | | | | | 1.21054E-07 | 1924.4 | 4207.05 | 2.18616 |
| | | | | | 2.27531E-05 | 1052.8 | 292.4 | -3.60055 |
| -2.0341 | | | | | | | | |
| | 9.12784E-05 | 1155.53 | 395.25 | -2.92353 | 1.61792E-06 | 3054.58 | 698.425 | -4.37352 |
| | | | | | 3.47557E-07 | 3036.98 | 1086.88 | -2.79423 |
| | | | | | 2.92713E-06 | 3800.33 | 1504.9 | -2.5253 |
| | | | | | 0.000408137 | 2152.88 | 1016 | -2.11897 |
| | | | | | 0.00860754 | 987.4 | 461.3 | -2.14047 |
| | | | | | 0.000123755 | 1544.33 | 408.5 | -3.78048 |
| | 0.00565858 | 880.8 | 318.7 | -2.76373 | 0.00147166 | 1460.33 | 511.3 | -2.8561 |
| | | | | | 8.04596E-10 | 2648.15 | #DIV/0! | #DIV/0! |
| | | | | | 1.3276E-07 | 5778.63 | 12924.3 | 2.23657 |
| | | | | | 3.0653E-07 | 6257.95 | 13233.1 | 2.11461 |
| | | | | | 1.42951E-06 | #DIV/0! | 2476.3 | #DIV/0! |
| | | | | | 1.62044E-10 | 46980.3 | 164227 | 3.49567 |
| | | | | | 9.3202E-07 | 4994.15 | 11450.4 | 2.29276 |
| | | | | | 3.50416E-11 | 10876 | 25147 | 2.31216 |
| | | | | | 1.60161E-09 | 5684.38 | 16525.6 | 2.90719 |
| | | | | | 3.04685E-11 | #DIV/0! | 2533.95 | #DIV/0! |
| | | | | | 2.2502E-10 | 5133.9 | 13546.2 | 2.63858 |
| | | | | | 8.78629E-14 | 5892.6 | 21249.5 | 3.60613 |
| | | | | | 9.85081E-14 | 5397.45 | 19778.9 | 3.66449 |
| | | | | | 0.00316622 | #DIV/0! | 1444.83 | #DIV/0! |
| | | | | | 2.6375E-08 | 5610.05 | 16001.6 | 2.8523 |
| -2.0984 | | | | | | | | |
| | | | | | 2.88656E-06 | #DIV/0! | 2090.35 | #DIV/0! |
| -3.4093 | 3.39419E-06 | 1003.23 | 228.65 | -4.3876 | 4.94917E-06 | 1698.83 | 503.25 | -3.37571 |
| -2.0777 | 7.20205E-06 | 1351.8 | 468.825 | -2.88338 | | | | |

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| | | | | | 0.000307163 | #DIV/0! | 1296.75 | #DIV/0! |
| | 0.000741404 | 547.65 | 245.067 | -2.2347 | 1.25051E-06 | 1225.08 | 448.8 | -2.72967 |
| | | | | | 1.08285E-05 | 2597.58 | 1225.3 | -2.11995 |
| | 4.70812E-05 | 4606.93 | 9514.2 | 2.0652 | 6.78353E-06 | 3846.5 | 9367.58 | 2.43535 |
| | 5.66191E-05 | 2043.28 | 983.525 | -2.0775 | | | | |
| | 1.27213E-06 | 815.6 | 282.5 | -2.88708 | | | | |
| 4.02722 | 2.02865E-06 | 1839.7 | 5171.83 | 2.81123 | 3.74738E-12 | #DIV/0! | 7090.93 | #DIV/0! |
| | | | | | 1.51398E-12 | 2060.8 | 4693.1 | 2.27732 |
| | | | | | 9.90353E-18 | 4002.38 | 12921.8 | 3.22854 |
| | 7.60051E-07 | 925.775 | 2423.95 | 2.61829 | | | | |
| | 0.00102586 | 1426.15 | 612.733 | -2.32752 | 2.57249E-07 | 3560.5 | 754.475 | -4.71918 |
| | | | | | 3.00158E-09 | 3604.73 | 808.033 | -4.46111 |
| | | | | | 7.91158E-07 | 4483.58 | 1027.6 | -4.36315 |
| | | | | | 2.89671E-07 | 2667.23 | 756.3 | -3.52668 |
| | | | | | 5.23592E-05 | 2387.03 | 752.567 | -3.17185 |
| | | | | | 4.20277E-05 | 1782.53 | 571.625 | -3.11835 |
| | 0.000931026 | 866.925 | 395.675 | -2.191 | 0.000322558 | 1376.48 | 571.1 | -2.41022 |
| | 1.7693E-08 | 27394 | 117369 | 4.28448 | 2.85396E-13 | 20428 | 157014 | 7.68623 |
| | | | | | 0.000212285 | #DIV/0! | 1967.7 | #DIV/0! |
| 4.17429 | 1.04055E-12 | 3690.05 | 15895.6 | 4.3077 | 1.62831E-11 | 3074.75 | 10645.8 | 3.46234 |
| | 1.24304E-06 | 709.4 | 1976.8 | 2.78658 | 0.000198126 | #DIV/0! | 1321.28 | #DIV/0! |
| | | | | | 6.69892E-07 | 4383.6 | 8902.78 | 2.03093 |
| | | | | | 1.44035E-10 | 18001.9 | 42553 | 2.36381 |
| | | | | | 0.000610981 | 1018.78 | 2356.98 | 2.31354 |
| -2.0082 | 4.61636E-05 | 971.375 | 366.6 | -2.64969 | | | | |
| | 0.0002336 | 678.5 | #DIV/0! | #DIV/0! | 3.50281E-05 | 1649.93 | #DIV/0! | #DIV/0! |
| | | | | | 5.40285E-06 | 1303.43 | 400.7 | -3.25289 |
| | | | | | 0.0096631 | 1551.17 | 575.4 | -2.69581 |
| | | | | | 0.00231466 | 1706.85 | 311.233 | -5.48415 |
| | | | | | 5.30209E-07 | 1404.68 | 491.425 | -2.85837 |
| | | | | | 1.19581E-08 | 1422.27 | 4908.55 | 3.45122 |
| | | | | | 1.76864E-08 | #DIV/0! | 2724.88 | #DIV/0! |
| | | | | | 2.67759E-05 | #DIV/0! | 6057.9 | #DIV/0! |
| 7.48954 | 2.41589E-13 | 3050.68 | 38480 | 12.6136 | 1.44615E-15 | 5703.8 | 35896.8 | 6.29349 |
| 2.89914 | 1.98857E-10 | 14030.2 | 82042.2 | 5.84755 | 5.08545E-13 | 12126.1 | 89346.8 | 7.36812 |
| | | | | | 0.0224191 | 1236.9 | 419.6 | -2.94781 |
| | | | | | 0.000185355 | 1016.5 | 395.5 | -2.57016 |
| -2.9269 | 0.000629921 | 3836.23 | 1627.35 | -2.35734 | | | | |
| -3.8731 | | | | | | | | |
| -3.6255 | | | | | | | | |
| -2.5509 | | | | | | | | |
| | | | | | 2.14805E-07 | 10050.7 | 20854.4 | 2.07492 |
| | | | | | 4.71135E-10 | 5598.3 | 14494.2 | 2.58904 |
| | | | | | 4.02115E-08 | 10233.7 | 28015.8 | 2.73762 |
| -2.0026 | 2.04733E-10 | 8637.4 | 2655.78 | -3.25231 | 6.17477E-11 | 5698.7 | 1890.73 | -3.01403 |
| 4.02974 | 1.27035E-06 | 2218.3 | 9806.65 | 4.4208 | 0.000253035 | 3452.93 | 8527.18 | 2.46955 |
| | | | | | 3.18662E-07 | 2912.5 | 7115.15 | 2.44297 |
| | | | | | 9.88215E-11 | 3975.25 | 10043.7 | 2.52655 |
| | | | | | 7.2391E-10 | 3368.45 | 10654.9 | 3.16315 |
| | 8.9383E-08 | 796.95 | 2168.93 | 2.72153 | | | | |
| | | | | | 0.011081 | 2310.13 | 594.933 | -3.883 |
| | 0.00153645 | 974.867 | 184.4 | -5.2867 | 0.000810308 | 1820.8 | 883.2 | -2.06159 |
| | 0.0013534 | 890.85 | 351.333 | -2.53563 | 4.32129E-06 | 3029.4 | 477.533 | -6.34385 |
| -2.1205 | 7.51802E-06 | 6453.65 | 2335.45 | -2.76334 | 0.000603779 | 3759.78 | 1850.43 | -2.03184 |
| -2.1155 | 1.14933E-05 | 5738.3 | 2118.33 | -2.70889 | | | | |
| | | | | | 0.00102125 | #DIV/0! | 1907.25 | #DIV/0! |
| | | | | | 0.00030131 | 1268.3 | #DIV/0! | #DIV/0! |
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| | | | | | 0.000211597 | 1945.15 | 522.267 | -3.72444 |
| -4.038 | | | | | 0.00319728 | 1306.7 | 2881.03 | 2.20481 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 0.00434611 | 3785.75 | 1684.95 | -2.2468 | 0.0021321 | 3503.7 | 1528.15 | -2.29277 |
| | 0.00291914 | 6279.83 | 2776.6 | -2.2617 | | | | |
| | 5.12035E-05 | 13590.5 | 5711.23 | -2.3796 | | | | |
| -2.8305 | 0.00111114 | 2723.35 | 1118 | -2.43591 | 8.87609E-07 | 2291.48 | 717.8 | -3.19236 |
| -2.3752 | | | | | 0.000202086 | 1927.7 | 864.225 | -2.23055 |
| -2.1643 | 0.000260797 | 3588.95 | 1615.4 | -2.22171 | | | | |
| -2.2477 | | | | | | | | |
| | | | | | 2.09115E-13 | 4540.15 | 13137.7 | 2.89368 |
| | | | | | 0.00685874 | 1962.7 | 597.5 | -3.28485 |
| | | | | | 7.80198E-06 | 1295.1 | 433.7 | -2.98617 |
| 2.02939 | 2.15375E-15 | 10352.6 | 37192.1 | 3.59254 | 1.52558E-19 | 6920.38 | 35306.7 | 5.10185 |
| 2.13476 | 2.67605E-14 | 8489.8 | 36542.9 | 4.30433 | 4.1506E-18 | 5980.55 | 36025.5 | 6.02377 |
| | | | | | 5.1639E-08 | 43502 | 21565.1 | -2.01724 |
| 2.2131 | 1.33968E-10 | 5027.05 | 13331.8 | 2.652 | 6.43249E-14 | 3594.25 | 12766.4 | 3.55188 |
| 2.34447 | 4.6859E-15 | 15438.8 | 57819.8 | 3.7451 | 2.26021E-19 | 9954.73 | 54611 | 5.48594 |
| 2.50213 | 7.49375E-15 | 5439.43 | 23510.5 | 4.32224 | 2.03659E-19 | 3103.58 | 22606.9 | 7.28413 |
| | | | | | 0.00235586 | 768.4 | 354.7 | -2.16634 |
| | | | | | 0.0148935 | 831.875 | 379.267 | -2.19338 |
| | | | | | 0.000111358 | 964.525 | 1958.93 | 2.03097 |
| | | | | | 7.79669E-07 | 2154.03 | 4451.33 | 2.06652 |
| -2.0628 | 0.000335785 | 2158.23 | 931.275 | -2.31749 | 2.65129E-06 | 1939.48 | 698.7 | -2.77583 |
| | 0.000209159 | 3487.13 | 1695.78 | -2.05636 | | | | |
| | | | | | 2.58351E-06 | 1509.95 | 672.25 | -2.24611 |
| | 0.000140361 | 1012.7 | 488.9 | -2.07138 | | | | |
| | 0.000366258 | 1262.05 | 580.1 | -2.17557 | 3.54426E-06 | 2164.63 | 688.233 | -3.14519 |
| | 1.72799E-06 | 828.025 | 217.5 | -3.80701 | | | | |
| -2.0596 | | | | | | | | |
| | 0.000141125 | #DIV/0! | 3094.05 | #DIV/0! | 1.77937E-13 | #DIV/0! | 3281.35 | #DIV/0! |
| | 7.6333E-06 | 1061.85 | 2129.63 | 2.00558 | | | | |
| | 1.44198E-05 | 1114.08 | 462.133 | -2.41072 | 1.97161E-06 | 2438.38 | 1026.2 | -2.37612 |
| | 0.0111252 | 1492.05 | 512.9 | -2.90905 | | | | |
| | | | | | 4.48067E-08 | 1903.8 | 506.2 | -3.76096 |
| -2.2116 | 0.000839787 | 9594.65 | 4092.23 | -2.3446 | 1.11976E-06 | 12305.2 | 29460.7 | 2.39417 |
| 3.07388 | 0.00037469 | #DIV/0! | 1050.6 | #DIV/0! | 3.4014E-06 | #DIV/0! | 647.175 | #DIV/0! |
| | | | | | 0.00134978 | 1255.73 | 606.9 | -2.06908 |
| | | | | | 0.000856626 | 1423.53 | 529.175 | -2.69008 |
| -2.275 | 6.97009E-08 | 1375.75 | 589.5 | -2.33376 | | | | |
| | | | | | 2.52208E-05 | 1446.97 | #DIV/0! | #DIV/0! |
| | 0.00536932 | 506.333 | 216.6 | -2.33764 | | | | |
| | 0.000555176 | 1280.55 | 517.35 | -2.47521 | 1.04991E-05 | 2860.9 | 948.7 | -3.0156 |
| | | | | | 0.00667855 | #DIV/0! | 539.6 | #DIV/0! |
| | 1.64357E-05 | 1359.85 | 3864.65 | 2.84197 | 8.91282E-05 | 1462.95 | 3627.83 | 2.4798 |
| | 0.000573268 | 1106.48 | 2322.88 | 2.09935 | | | | |
| 2.24 | | | | | | | | |
| | 0.00233947 | 882.575 | 436.1 | -2.02379 | 0.0085277 | 1553.37 | 627.2 | -2.47667 |
| | 1.58996E-08 | 6998.83 | 19004.6 | 2.7154 | 7.16207E-15 | 5650.35 | 38523.7 | 6.81793 |
| -2.4613 | 2.68157E-09 | 5010.7 | 1068.08 | -4.69134 | 6.85014E-10 | 5755.73 | 1338.73 | -4.29941 |
| | | | | | 8.75549E-08 | 2916.68 | 954 | -3.05731 |
| | 0.00183595 | 530.15 | 1098.1 | 2.0713 | | | | |
| | | | | | 0.000710283 | 1199.5 | 558.967 | -2.14592 |
| | | | | | 1.24019E-07 | 3080.35 | 6401.53 | 2.07818 |
| | | | | | 3.91037E-05 | 3798.05 | 8134.53 | 2.14176 |
| | | | | | 3.98262E-17 | 6142.35 | 20246.6 | 3.29623 |
| | 0.00664314 | 655.225 | 170.3 | -3.84748 | 0.00426218 | 1218.3 | 414.833 | -2.93684 |
| | | | | | 0.0117112 | 1045.13 | 320.1 | -3.265 |
| | | | | | 0.0146622 | 1115.67 | #DIV/0! | #DIV/0! |
| | | | | | 1.01879E-06 | #DIV/0! | 3661.35 | #DIV/0! |
| | 1.21102E-05 | 775.525 | 352.05 | -2.20288 | | | | |
| | 0.00353464 | 2832.95 | 7381.05 | 2.60543 | 0.0116524 | 2496.4 | 6093.78 | 2.44103 |
| | | | | | 8.94798E-11 | 2053.38 | 4555.43 | 2.21851 |
| | 8.44219E-05 | 695.475 | 165.567 | -4.20057 | 0.000150969 | 1413.08 | 405 | -3.48907 |
| 4.23382 | 1.40924E-09 | 1380.55 | 5284.73 | 3.82799 | 1.59399E-07 | 2311.58 | 6595.88 | 2.85341 |

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|-------------|-------------|---------|----------|-------------|-------------|---------|----------|----------|
| 1.81058E-06 | 1189.03 | 525.4 | -2.26309 | 0.00163127 | 2194.85 | 445.85 | -4.92284 | |
| | | | | 0.0100532 | 1140 | #DIV/0! | #DIV/0! | |
| | | | | 1.21005E-05 | 1830.03 | 3893.18 | 2.12739 | |
| | | | | 5.11245E-10 | 10518.6 | 26320.7 | 2.5023 | |
| | | | | 3.57899E-12 | 16644.8 | 43884.9 | 2.63655 | |
| | | | | 6.5369E-07 | 1691.85 | 537.525 | -3.14748 | |
| 3.08526E-06 | 745.75 | 245.025 | -3.04357 | 3.01502E-05 | 1358.28 | 504.933 | -2.69001 | |
| | | | | 0.00145113 | 1626.95 | 331.2 | -4.91229 | |
| | | | | 0.00253581 | 1085.87 | #DIV/0! | #DIV/0! | |
| | | | | 2.20683E-08 | #DIV/0! | 2502.13 | #DIV/0! | |
| 0.00178968 | 584.875 | 270.35 | -2.1634 | 3.01775E-05 | 3141.9 | 955.6 | -3.28788 | |
| 0.00280124 | 926.65 | 421.6 | -2.19794 | 0.000943823 | 3229.28 | 638.625 | -5.05661 | |
| | | | | 4.35436E-07 | 4032.53 | 13224.1 | 3.27935 | |
| | | | | 1.71807E-08 | 2656.88 | 13668.1 | 5.14442 | |
| | | | | 0.00202236 | 718.367 | #DIV/0! | #DIV/0! | |
| 1.71524E-06 | 944.25 | 311.8 | -3.02838 | 6.40467E-06 | 1040.7 | 357.667 | -2.90969 | |
| 1.94231E-07 | 1078.2 | 332.6 | -3.24173 | | | | | |
| | | | | 4.46126E-06 | 1551.43 | 458.475 | -3.38388 | |
| | | | | 0.000126502 | 1812.85 | 796.233 | -2.27678 | |
| -2.0813 | 2.24858E-10 | 1008.25 | 369.1 | -2.73164 | 2.21597E-11 | 1574.1 | 549.8 | -2.86304 |
| | | | | | 6.00064E-08 | 1539.78 | 498.175 | -3.09083 |
| | | | | 0.00227861 | 2214.7 | 1085.25 | -2.04073 | |
| | | | | | | | | |
| | | | | 2.4525E-07 | 3984.1 | 1856.5 | -2.14603 | |
| | | | | 4.88619E-12 | 1817.2 | 10157.5 | 5.58963 | |
| 3.45898E-05 | 625.4 | #DIV/0! | #DIV/0! | 0.00171188 | #DIV/0! | 1489.9 | #DIV/0! | |
| | | | | 7.17179E-05 | 841.075 | 2104.43 | 2.50207 | |
| | | | | 0.00016907 | #DIV/0! | 3746.38 | #DIV/0! | |
| 0.000168582 | 817.075 | 380.9 | -2.14512 | 1.08115E-06 | 1458.83 | 528.75 | -2.75901 | |
| 1.94017E-05 | 7542.25 | 3324.73 | -2.26853 | 4.43241E-06 | 13739.5 | 5482.18 | -2.50621 | |
| | | | | 7.01553E-05 | #DIV/0! | 1918.5 | #DIV/0! | |
| -3.0371 | 1.91198E-12 | 8029.18 | 1672.45 | -4.80085 | 2.9264E-07 | 3823.05 | 1533.3 | -2.49335 |
| | 4.90553E-05 | 996.1 | 381.4 | -2.61169 | 3.43036E-06 | 1535.2 | 615.567 | -2.49396 |
| 2.23738 | 2.85874E-06 | 1704.58 | 3614.15 | 2.12026 | 1.02443E-06 | 1135.67 | 2453.33 | 2.16025 |
| | 0.000397377 | 1493.33 | 744.825 | -2.00493 | | | | |
| 2.03006 | 3.44055E-12 | 8216.33 | 23340.3 | 2.84072 | 6.29553E-13 | 5114.28 | 15204.5 | 2.97295 |
| 2.57566 | 5.5163E-07 | #DIV/0! | 1375.57 | #DIV/0! | 1.87684E-05 | #DIV/0! | 1019.63 | #DIV/0! |
| | 5.91251E-08 | 3080.4 | 8092.78 | 2.62718 | | | | |
| | | | | | 0.000151123 | 805.075 | #DIV/0! | #DIV/0! |
| | 1.2825E-06 | 8159 | 3532.5 | -2.3097 | | | | |
| | | | | | 0.0151816 | 1262.87 | 483.067 | -2.61427 |
| | | | | | 0.00186067 | 926.2 | 344.767 | -2.68645 |
| | | | | | | | | |
| -2.3774 | | | | | | | | |
| 3.24128 | 2.31991E-05 | 322.3 | 1418.98 | 4.40265 | | | | |
| | | | | | 9.50425E-12 | 3218.4 | 8224.63 | 2.5555 |
| | | | | | 5.61434E-07 | 1840.5 | 9706.98 | 5.2741 |
| | | | | | 6.23879E-12 | 7881.78 | 77876.2 | 9.88054 |
| | | | | | 8.93752E-09 | 1510.73 | 4885.68 | 3.23399 |
| | | | | | 1.55846E-07 | 5032.78 | 11277.1 | 2.24073 |
| 0.000125023 | 1405.78 | 668.225 | -2.10374 | | | | | |
| 0.00383785 | 642.9 | 178.7 | -3.59765 | 0.0161792 | 810.933 | 397.4 | -2.0406 | |
| 5.76095E-07 | 5959.95 | 108823 | 18.2591 | 7.08734E-08 | 21482.1 | 145201 | 6.75916 | |
| | | | | 0.00770887 | 2410.65 | 660.05 | -3.65222 | |
| | | | | 0.00532936 | 1564.28 | 715.767 | -2.18545 | |
| | | | | 0.000187011 | #DIV/0! | 1826.2 | #DIV/0! | |

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| 5.57152 | 5.60938E-08 | 927.625 | 4266.13 | 4.59898 | 9.59263E-06 | 1608.8 | 3658.03 | 2.27376 |
| #DIV/0! | 2.79291E-06 | #DIV/0! | 4633.28 | #DIV/0! | 3.59657E-06 | #DIV/0! | 3792.78 | #DIV/0! |
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| | | | | | 2.68486E-06 | 1280.5 | 441.2 | -2.90231 |
| | 2.98065E-05 | 2193.8 | 6823.45 | 3.11033 | | | | |
| | | | | | 0.000503192 | #DIV/0! | 1533.85 | #DIV/0! |
| | | | | | 2.79288E-05 | 1661.6 | 637.4 | -2.60684 |
| -2.4491 | 0.000680747 | 1278.28 | 636.75 | -2.0075 | | | | |
| | | | | | 0.00534562 | 1174.97 | 499.175 | -2.35382 |
| | | | | | 1.05465E-08 | 3388.4 | 7095.93 | 2.09418 |
| | 0.0119034 | 1295.2 | 610.5 | -2.12154 | | | | |
| | | | | | 1.31592E-09 | 3722.83 | 9708.15 | 2.60774 |
| | | | | | 0.000118219 | #DIV/0! | 2150.28 | #DIV/0! |
| 2.5859 | 2.71232E-10 | 1859.73 | 5741.83 | 3.08746 | 4.24572E-14 | 1056.85 | 5590.03 | 5.28933 |
| | 0.000146131 | 753.1 | 1926.3 | 2.55783 | 9.44292E-05 | 1016.9 | 2811.75 | 2.76502 |
| | 6.64022E-06 | 851.3 | 2791.03 | 3.27854 | 4.81412E-10 | #DIV/0! | 2795.68 | #DIV/0! |
| | | | | | 0.0112514 | 1438.8 | 461.8 | -3.11563 |
| | | | | | 0.000258025 | 1468 | 3021.25 | 2.05807 |
| | 1.61965E-05 | 1218.93 | 480.333 | -2.53766 | | | | |
| | | | | | 2.82919E-05 | 1087.8 | #DIV/0! | #DIV/0! |
| | 6.8776E-06 | 1578.3 | 3159.15 | 2.00162 | 0.00125235 | #DIV/0! | 1755.25 | #DIV/0! |
| | | | | | 0.000185898 | 1315.03 | 470.7 | -2.79376 |
| | 0.00164284 | 695.5 | 284.55 | -2.44421 | | | | |
| | 0.00350542 | 846.375 | #DIV/0! | #DIV/0! | 0.00934652 | 2135.4 | 733.675 | -2.91055 |
| 14.6639 | 1.38828E-07 | 491.35 | 2369.55 | 4.82253 | 4.14051E-05 | 749.1 | 2664.83 | 3.55737 |
| 27.9261 | 6.27365E-16 | 484.4 | 9173.75 | 18.9384 | 3.60998E-12 | 1097.6 | 10220.6 | 9.31177 |
| 45.8973 | 3.06658E-17 | 414 | 16680 | 40.2897 | 1.72985E-15 | 1491.15 | 25310.8 | 16.974 |
| | | | | | 0.0139268 | 1219.28 | 503.4 | -2.42208 |
| | | | | | 1.87182E-11 | 6879.78 | 23775.2 | 3.45581 |
| | | | | | 2.33143E-06 | 2986.5 | 1089.37 | -2.7415 |
| | | | | | 8.49895E-06 | 10008.4 | 3948.05 | -2.53502 |
| | 6.32596E-05 | 10158.5 | 4854.88 | -2.09242 | 3.07254E-06 | 17084.1 | 7395.85 | -2.30995 |
| | 4.19892E-07 | 2589.6 | 966.467 | -2.67945 | | | | |
| | | | | | 0.00132978 | 1273.3 | 220.3 | -5.77985 |
| | | | | | 0.000115938 | 1152 | 341.8 | -3.37039 |
| | | | | | 6.60257E-05 | 6497 | 1331.25 | -4.88038 |
| | | | | | 0.000630374 | 1850.08 | 401.7 | -4.60561 |
| | 0.000003473 | 1107.75 | 448.6 | -2.46935 | | | | |
| | 0.00190538 | 596.833 | #DIV/0! | #DIV/0! | | | | |
| | 1.5886E-06 | 1686 | 455.4 | -3.70224 | 1.0374E-06 | 3254.38 | 915.45 | -3.55495 |
| | 0.000707779 | 1230.7 | #DIV/0! | #DIV/0! | 0.000495808 | 1723.17 | 515.1 | -3.34531 |
| #DIV/0! | 0.00380679 | #DIV/0! | 2833.28 | #DIV/0! | | | | |
| | 0.000245896 | 1530.18 | 686.625 | -2.22855 | | | | |
| | | | | | 1.59496E-12 | 3498.83 | 9836.85 | 2.81147 |
| | 0.00266099 | 1762.1 | 4151.6 | 2.35605 | | | | |
| -2.2923 | 7.74401E-08 | 4138.6 | 1644.47 | -2.51668 | | | | |
| | | | | | 1.77322E-14 | 2595.58 | 6526.55 | 2.51449 |
| | | | | | 1.29326E-07 | 3420.88 | 8219.35 | 2.4027 |
| | 4.51164E-06 | 5004.35 | 10566.6 | 2.11148 | 1.06245E-08 | 2657.35 | 7016.8 | 2.64053 |
| | | | | | 8.03385E-11 | 2982.5 | 7990.98 | 2.67929 |
| 6.5338 | 2.30449E-10 | 3116.43 | 32181.6 | 10.3264 | 2.81775E-11 | 4268.2 | 33284.3 | 7.79819 |
| | | | | | 8.28557E-15 | 8446.93 | 29137 | 3.44942 |
| | | | | | 0.00614201 | #DIV/0! | 594.425 | #DIV/0! |
| #DIV/0! | | | | | | | | |
| | | | | | 1.17452E-08 | #DIV/0! | 3674.23 | #DIV/0! |
| -2.4639 | 1.10484E-05 | 2264.23 | 934.9 | -2.42189 | | | | |
| | 0.00436788 | 1578.88 | 540.775 | -2.91965 | 0.000604979 | 3338.53 | 1027.15 | -3.25028 |
| | | | | | 0.00518596 | #DIV/0! | 1446.78 | #DIV/0! |
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| | 1.61163E-08 | 2623.65 | 5754.6 | 2.19336 | | | | |

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|------------------------------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 1.43036E-07 | 2936.68 | 1456.58 | -2.01615 |
| | 1.86605E-05 | 1499.38 | 565.5 | -2.65141 | 0.00821857 | 1190.13 | #DIV/0! | #DIV/0! |
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| | | | | | 5.43175E-06 | 3416.68 | 1400.55 | -2.43952 |
| | 2.72891E-05 | 2087.45 | 805.467 | -2.5916 | 6.98591E-06 | 1914.63 | 693.4 | -2.76122 |
| | | | | | 3.2293E-06 | 3074.65 | 6597.05 | 2.14563 |
| | | | | | 0.0213884 | 1218.98 | 550.225 | -2.21541 |
| | 0.006136 | 599.95 | #DIV/0! | #DIV/0! | 0.0051388 | 873.675 | #DIV/0! | #DIV/0! |
| -2.3106 | 0.00581255 | 577.4 | 206.4 | -2.79748 | | | | |
| | | | | | 7.77388E-08 | 7369.88 | 1269.7 | -5.80442 |
| | 3.21487E-06 | 2305.95 | 889.225 | -2.59321 | 2.90707E-05 | 2695.4 | 1211.63 | -2.22462 |
| | | | | | 3.56411E-06 | #DIV/0! | 1229.73 | #DIV/0! |
| | | | | | 1.8108E-07 | 6879.93 | 16356.3 | 2.3774 |
| | | | | | 2.20126E-06 | 8949.85 | 21957.1 | 2.45334 |
| | | | | | 1.77191E-15 | 13006.7 | 54114.1 | 4.16048 |
| | | | | | 2.65103E-16 | 4783.48 | 20504 | 4.28641 |
| | | | | | 2.32274E-07 | #DIV/0! | 950.833 | #DIV/0! |
| | | | | | 0.00315958 | #DIV/0! | 1025.3 | #DIV/0! |
| | | | | | 1.29795E-09 | 3272.3 | 9097.8 | 2.78025 |
| | | | | | 0.00747047 | #DIV/0! | 831.467 | #DIV/0! |
| | | | | | 1.08807E-08 | 1377.5 | 3435.55 | 2.49405 |
| | | | | | 5.57198E-12 | 7741.78 | 19315.1 | 2.49492 |
| | | | | | 0.000300422 | #DIV/0! | 1487.87 | #DIV/0! |
| -3.1597 | 7.46595E-12 | 3255.05 | 595.567 | -5.46547 | 5.14581E-09 | 3559.93 | 945.6 | -3.76473 |
| | | | | | 1.34432E-08 | 11374.3 | 24183.5 | 2.12615 |
| | | | | | 4.82387E-08 | 7453.58 | 17436.7 | 2.33937 |
| | 7.67132E-05 | 798.75 | 162.6 | -4.91236 | 8.44213E-05 | 1466.8 | 391.225 | -3.74925 |
| | | | | | 2.43329E-05 | #DIV/0! | 1642.3 | #DIV/0! |
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| | | | | | 0.00154715 | #DIV/0! | 2472.7 | #DIV/0! |
| | | | | | 8.93615E-06 | 1688.48 | 533.2 | -3.16668 |
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| #DIV/0! 2.47353 | 0.0026642 | #DIV/0! | 1386.78 | #DIV/0! | 0.00118008 | #DIV/0! | 2143.78 | #DIV/0! |
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| | | | | | 0.00592548 | #DIV/0! | 1243.25 | #DIV/0! |
| | | | | | 0.0174716 | #DIV/0! | 1193.98 | #DIV/0! |
| | | | | | 1.04885E-05 | 3755.95 | 9442.68 | 2.51406 |
| 6.32322 | 8.21362E-10 | 2321.2 | 40242.2 | 17.3368 | 1.25066E-13 | 2311.4 | 41408.2 | 17.9148 |
| | 2.01032E-05 | 338.375 | 1529.43 | 4.51991 | 7.62955E-07 | 387.6 | 898.075 | 2.31701 |
| | 1.17104E-10 | 6927.35 | 19878.8 | 2.86961 | 3.56821E-16 | 3274.55 | 15441.9 | 4.71574 |
| | | | | | 0.00335879 | 1511.23 | 582.925 | -2.59249 |
| | 0.00284568 | 914.8 | 404.275 | -2.26282 | | | | |
| | 0.000733175 | 2359.6 | 1029.88 | -2.29115 | 1.63461E-08 | 2663.85 | 1071.98 | -2.48499 |
| | 1.4349E-07 | 1827.3 | 804.767 | -2.2706 | 8.36007E-10 | 2103.95 | 5889.75 | 2.79938 |
| -2.1656 | | | | | | | | |
| | 4.5997E-08 | 12619.7 | 32483 | 2.57399 | 2.53697E-10 | 2808.85 | 6556.35 | 2.33418 |
| | 0.0150795 | 1924.3 | 956.775 | -2.01124 | 1.87156E-16 | 4065.73 | 28251.1 | 6.9486 |
| | 0.00114771 | 1147 | 3149.68 | 2.74601 | 0.000134567 | #DIV/0! | 1213.85 | #DIV/0! |
| | 0.0103457 | 623.567 | #DIV/0! | #DIV/0! | 0.0228881 | #DIV/0! | 2147.88 | #DIV/0! |
| | | | | | 0.00264199 | #DIV/0! | 1657.97 | #DIV/0! |
| | | | | | 0.00347211 | #DIV/0! | 1095.37 | #DIV/0! |
| #DIV/0! -3.1452 -2.062 | 0.000292471 | 4381.43 | 1973.6 | -2.22002 | 5.11441E-05 | 2056.77 | 721.325 | -2.85137 |
| | | | | | 1.55632E-08 | 2922 | 1346.48 | -2.17011 |
| | | | | | 2.40606E-07 | 1715.93 | 629.1 | -2.7276 |

#DIV/0!

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 1.11884E-05 | 34424 | 93769 | 2.72394 | 7.53919E-14 | 14254.4 | 127935 | 8.97508 |
| | 4.6843E-06 | 30851.7 | 89787.4 | 2.91029 | 1.6896E-14 | 11856.4 | 119576 | 10.0854 |
| | 5.76117E-06 | 24782.5 | 78054 | 3.14956 | 6.85635E-14 | 9686.1 | 98547.1 | 10.1741 |
| 2.76103 | 1.56922E-08 | 1022.85 | 3601.7 | 3.52124 | 4.85869E-08 | 1153.5 | 3559.45 | 3.08578 |
| | | | | | 4.34718E-05 | 2487.9 | 900.1 | -2.76403 |
| | | | | | 8.31433E-07 | 2095.38 | 879 | -2.38382 |
| | | | | | 0.000919126 | 1287.27 | 468.233 | -2.7492 |
| | | | | | 4.61804E-05 | 7742.33 | 3643.13 | -2.12519 |
| | | | | | 9.14308E-13 | 5551.05 | 11833.4 | 2.13174 |
| | | | | | 1.61244E-11 | 6116.95 | 14750.9 | 2.41147 |
| | 0.00488113 | #DIV/0! | 680.6 | #DIV/0! | 2.38693E-05 | #DIV/0! | 572.9 | #DIV/0! |
| | | | | | 0.000690772 | 1365.63 | 641.3 | -2.12948 |
| | | | | | 1.36993E-05 | #DIV/0! | 1399.83 | #DIV/0! |
| | | | | | 8.19839E-05 | #DIV/0! | 1553.58 | #DIV/0! |
| | | | | | 0.000602281 | #DIV/0! | 1708.25 | #DIV/0! |
| | 8.9104E-09 | 1702.2 | 4047.08 | 2.37756 | | | | |
| | 2.97669E-05 | 3066.28 | 953.05 | -3.21733 | 2.89117E-06 | 9634.5 | 2475.13 | -3.89253 |
| | 0.000020488 | 11976.2 | 3161.75 | -3.78783 | 5.24834E-05 | 19989.1 | 7041.1 | -2.83892 |
| | | | | | 0.00161234 | 2051.6 | 832.775 | -2.46357 |
| | | | | | 0.00047366 | 4532.73 | 2093.8 | -2.16483 |
| | | | | | 0.000160023 | 1693.23 | 778.433 | -2.17518 |
| | 5.63339E-07 | 1355.73 | 559.725 | -2.42213 | 0.00137723 | 1748.9 | 868.367 | -2.01401 |
| | 0.00233387 | 1134.35 | 487.15 | -2.32854 | 0.00128342 | 1344.27 | 636.2 | -2.11296 |
| | | | | | 0.0128971 | 878 | 292.7 | -2.99966 |
| | 0.000355525 | 566.7 | 142.6 | -3.97405 | 0.00254458 | 1239.3 | 508.5 | -2.43717 |
| | 0.000317448 | 543.05 | 143 | -3.79755 | 5.36331E-05 | 953.925 | #DIV/0! | #DIV/0! |
| | | | | | 0.000212272 | 1105.93 | 356.6 | -3.1013 |
| | | | | | 0.00832604 | 1095 | 469.1 | -2.33426 |
| | 0.00161923 | 1398.43 | 424.867 | -3.29144 | | | | |
| | 8.46744E-07 | 2045.73 | 624.175 | -3.27749 | | | | |
| | 0.000213568 | 1836.45 | 838.433 | -2.19034 | | | | |
| | | | | | 0.00123071 | 1986.53 | 915.05 | -2.17096 |
| | 0.000513478 | 691.1 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.00951943 | 1350.25 | 509.325 | -2.65106 |
| | | | | | 9.07492E-11 | 4042.53 | 10126.8 | 2.50506 |
| -2.6566 | 0.00288384 | 1765.65 | #DIV/0! | #DIV/0! | 0.000103684 | 2699.55 | #DIV/0! | #DIV/0! |
| | 1.18166E-07 | 1343.83 | 534.05 | -2.51631 | 0.000242503 | #DIV/0! | 926.967 | #DIV/0! |
| | 9.06746E-08 | 2228.03 | 6202.65 | 2.78392 | | | | |
| -2.2083 | 2.16052E-07 | 2381.48 | 891.2 | -2.67221 | 1.05727E-06 | 2563.23 | 1026.75 | -2.49645 |
| -3.1523 | 7.11157E-06 | 3488.38 | 1611.33 | -2.16491 | 3.1685E-07 | 3157.25 | 1312.25 | -2.40598 |
| | 0.00231444 | 624.825 | 242.533 | -2.57624 | 0.0223878 | 1188.17 | 520.167 | -2.2842 |
| | | | | | 1.95835E-05 | 2441.68 | 1108.07 | -2.20355 |
| | | | | | 0.000504874 | #DIV/0! | 1878.5 | #DIV/0! |
| | 2.79892E-10 | 3581.6 | 9860.85 | 2.7532 | 5.51518E-08 | 3581.08 | 7306.38 | 2.04027 |
| | 1.94625E-09 | #DIV/0! | 3312.98 | #DIV/0! | 1.56461E-14 | #DIV/0! | 2285.3 | #DIV/0! |
| | | | | | 1.82096E-11 | 3187.43 | 6766.3 | 2.12281 |
| | | | | | 0.00295562 | #DIV/0! | 1429.6 | #DIV/0! |
| | | | | | 0.019801 | 864.2 | 297.6 | -2.9039 |
| | | | | | 4.66021E-05 | #DIV/0! | 1497.45 | #DIV/0! |
| | 0.000799834 | 1468.43 | 343.9 | -4.26994 | | | | |
| | 5.23367E-09 | 7222.08 | 16527.8 | 2.28851 | 3.0112E-12 | 4955.18 | 14542.2 | 2.93476 |
| | | | | | 0.00557131 | 2095.85 | 497.5 | -4.21276 |
| | | | | | 0.00673378 | 2971.67 | 830.25 | -3.57924 |
| | 9.76245E-08 | 3338 | 8793.75 | 2.63444 | | | | |
| | | | | | 4.11167E-05 | #DIV/0! | 2092.5 | #DIV/0! |
| 18.8486 | 7.03476E-17 | 2428.5 | 39669 | 16.3348 | 6.81329E-17 | 3990.9 | 52471.4 | 13.1478 |
| 18.7334 | 1.13593E-18 | 2096.73 | 36290.9 | 17.3084 | 8.55473E-19 | 3325.13 | 46860.9 | 14.093 |
| 19.162 | 9.34324E-18 | 2039.58 | 34857.3 | 17.0905 | 2.48361E-18 | 2871.73 | 45575.1 | 15.8703 |
| | | | | | 0.00689767 | #DIV/0! | 1322.5 | #DIV/0! |
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| | 1.48862E-09 | 3234.95 | 9943.95 | 3.07391 | 2.72189E-10 | 3641.73 | 10367.3 | 2.84682 |
| | 1.25512E-07 | 2844.13 | 1297.7 | -2.19167 | 2.13238E-07 | 4585.25 | 1372.45 | -3.34092 |
| -3.3833 | 5.17813E-11 | 2638.83 | 441.45 | -5.97763 | 3.28708E-07 | 2415.98 | 735.125 | -3.28648 |
| | | | | | 0.00240938 | 538.933 | #DIV/0! | #DIV/0! |
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| | 2.71655E-07 | 2361.58 | #DIV/0! | #DIV/0! | | | | |
| -2.2441 | | | | | 0.00636341 | 1342.43 | 299.533 | -4.48172 |
| 9.35905 | 1.07322E-12 | 1222.13 | 8047.7 | 6.58501 | 5.33181E-11 | 1955.6 | 9076.58 | 4.64132 |
| | | | | | 4.12965E-05 | 719.05 | #DIV/0! | #DIV/0! |
| | 4.72408E-07 | 1092.9 | 291.575 | -3.74826 | | | | |
| | | | | | 0.000482032 | 1339.28 | 663.4 | -2.0188 |
| | | | | | 1.743E-07 | 1919.3 | 5883.88 | 3.06564 |
| | 0.000333586 | 1034.97 | #DIV/0! | #DIV/0! | 0.000113572 | 2448.13 | 739.25 | -3.31163 |
| | 0.000841425 | 742.075 | 257.5 | -2.88184 | 0.0141891 | 1450 | 477.867 | -3.03432 |
| | | | | | 4.4716E-09 | 2340.47 | 5074.28 | 2.16806 |
| | | | | | 9.00616E-09 | 15373.5 | 43286.3 | 2.81564 |
| | | | | | 0.00083529 | 1708.2 | 733.025 | -2.33034 |
| | | | | | 0.000105616 | 1248.17 | 396.8 | -3.14558 |
| | 4.09833E-07 | 4499.05 | 10282.7 | 2.28553 | 1.92376E-11 | 3532.08 | 11652.9 | 3.29917 |
| | | | | | 1.3043E-07 | 5587.25 | 1629.4 | -3.42902 |
| -2.0356 | 1.91863E-09 | 2215.3 | 811.85 | -2.72871 | 1.25249E-10 | 4250.68 | 1431.35 | -2.9697 |
| | 5.27639E-07 | 1889.73 | 867.9 | -2.17735 | 4.48433E-08 | 2284.5 | 912.65 | -2.50315 |
| | 4.65744E-05 | 676.5 | 309.7 | -2.18437 | 9.42425E-06 | 929.35 | 382.9 | -2.42714 |
| -2.3142 | | | | | | | | |
| | | | | | 3.66969E-09 | 1108.98 | 357.233 | -3.10434 |
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| | 4.18982E-05 | 26589.1 | 10275.3 | -2.58767 | 1.10012E-08 | 22961.7 | 5085.5 | -4.51514 |
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| | 3.43287E-05 | 1063.73 | 333.3 | -3.19149 | 1.4097E-07 | 2212.83 | 735.8 | -3.00737 |
| | 5.07004E-17 | 10151.3 | 53315.4 | 5.2521 | 8.67118E-21 | 5664.05 | 44279.1 | 7.81756 |
| | | | | | 9.30225E-05 | 1619.15 | 696.525 | -2.32461 |
| | 6.50766E-07 | 1744.15 | 831.05 | -2.09873 | 2.26159E-08 | 2373.85 | 988.6 | -2.40122 |
| | 9.8441E-08 | 2153.25 | 6459.13 | 2.99971 | 3.80772E-10 | #DIV/0! | 4688.9 | #DIV/0! |
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| -2.3077 | 3.62717E-05 | 2319.25 | 952.3 | -2.43542 | | | | |
| | 0.000011724 | 1560.55 | 690.4 | -2.26036 | | | | |
| | 0.0065566 | 524.6 | 234.433 | -2.23774 | | | | |
| | | | | | 0.00226342 | 9472.13 | 1643.03 | -5.76505 |
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| | | | | | 9.77866E-21 | 5060.3 | 26914.8 | 5.31882 |
| | | | | | 3.26975E-12 | 1166.07 | 7010.08 | 6.01173 |
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| | 0.000912239 | 681.4 | 267.933 | -2.54317 | 0.0063201 | 1533.53 | 442.167 | -3.46822 |
| | | | | | 0.00439729 | 2415.23 | 561 | -4.30521 |
| | 0.000113244 | 551.375 | #DIV/0! | #DIV/0! | 0.00145144 | 1113.18 | 517.5 | -2.15106 |
| | 0.00266765 | 793.65 | 341 | -2.32742 | | | | |
| -2.0922 | | | | | 0.000611901 | 2855.23 | 1425.5 | -2.00296 |
| | | | | | 1.83422E-06 | 2251.08 | 4862.93 | 2.16027 |
| | 5.80118E-06 | 5462.43 | 2201.85 | -2.48083 | 2.84976E-08 | 4873.83 | 1536.23 | -3.1726 |
| | | | | | 0.000492066 | 6003.57 | 2797.53 | -2.14603 |
| | 0.000193125 | 5286.55 | 1949.65 | -2.71154 | | | | |
| | 0.0010293 | 2000.88 | 855.15 | -2.33979 | | | | |
| | | | | | 0.000014813 | 820.433 | 297.9 | -2.75406 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 0.000107362 | 1400.27 | 344.267 | -4.06739 | 0.000198864 | 2348.18 | 1076.55 | -2.1812 |
| | | | | | 1.43791E-09 | 21020.7 | 50518.6 | 2.40328 |
| | 3.05828E-05 | 1205.28 | 2649.13 | 2.19794 | 1.08876E-12 | 595.033 | 2629.4 | 4.41891 |
| | 4.9005E-08 | 1207.68 | 506.925 | -2.38235 | 4.82182E-08 | 1688.15 | 690.975 | -2.44314 |
| | | | | | 0.00907819 | 2087.7 | 908.75 | -2.29733 |
| | 1.26879E-08 | 5401.5 | 11393.4 | 2.1093 | 2.61187E-15 | 2186.13 | 8515.2 | 3.8951 |
| | 0.0133036 | 328.5 | 724.7 | 2.20609 | | | | |
| | | | | | 0.00250129 | 950.9 | 305.75 | -3.11006 |
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| -2.334 | 4.3627E-09 | 3153.9 | 1022.9 | -3.08329 | 9.54476E-09 | 2570.8 | 934.4 | -2.75128 |
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| -2.3053 | | | | | | | | |
| | | | | | 4.83076E-06 | 1709.3 | 638.125 | -2.67863 |
| | | | | | 0.0107915 | 1746.73 | 499 | -3.50047 |
| | | | | | 0.00092214 | 1062.93 | 529.125 | -2.00884 |
| | | | | | 7.59063E-05 | 1404.43 | 672.8 | -2.08743 |
| -2.9805 | | | | | | | | |
| -3.0207 | 3.70461E-06 | 2074.27 | 685.55 | -3.0257 | | | | |
| -2.3988 | 0.000350854 | 2141 | 943.3 | -2.26969 | 5.76319E-06 | 1858.85 | 746.3 | -2.49075 |
| 37.2678 | 2.39005E-18 | 664.867 | 16850.6 | 25.3443 | 8.99856E-17 | 1224.25 | 17634.7 | 14.4045 |
| -2.208 | | | | | | | | |
| | | | | | 1.06582E-08 | 2596.7 | 5707.63 | 2.19803 |
| | | | | | 3.48591E-06 | 3250.88 | 1170.3 | -2.77781 |
| | | | | | 2.82055E-05 | 4269.13 | 1643.33 | -2.59786 |
| | 9.17694E-06 | 973.325 | 468.767 | -2.07635 | 2.29576E-05 | 1661.43 | 828.267 | -2.00592 |
| | 1.62073E-05 | 787.15 | 279.8 | -2.81326 | 9.55163E-06 | 1210.58 | 426.2 | -2.84039 |
| | | | | | 0.0167799 | #DIV/0! | 1030.08 | #DIV/0! |
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| 2.37425 | 1.44145E-08 | 3695.48 | 8480.48 | 2.29483 | | | | |
| | 0.000142225 | 636.9 | 136.25 | -4.6745 | | | | |
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| | 6.09746E-06 | 1178.83 | 322.9 | -3.65077 | 0.00196634 | 1431.45 | 537.4 | -2.66366 |
| | | | | | 6.24301E-06 | 1425 | 400.85 | -3.55495 |
| | | | | | 0.000506548 | 1862.35 | 655.6 | -2.84068 |
| | | | | | 0.0068231 | 1586.47 | 379.6 | -4.17931 |
| | 0.00777235 | 824.05 | 378.05 | -2.17974 | | | | |
| 3.65102 | 0.000443597 | #DIV/0! | 2638.95 | #DIV/0! | | | | |
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| | | | | | 0.00867538 | 1702.18 | 725.65 | -2.34572 |
| | 1.78226E-08 | 2149.08 | 563.8 | -3.81177 | 0.000314105 | 2492.35 | 1187.8 | -2.09829 |
| | | | | | 0.00324629 | 1237.78 | 595.9 | -2.07715 |
| -2.6551 | 1.98051E-06 | 1760.73 | 614.9 | -2.86345 | | | | |
| | | | | | 0.00390479 | 916.133 | 438.6 | -2.08877 |
| | | | | | 9.81972E-05 | 1171.83 | 498 | -2.35308 |
| | | | | | 0.00124458 | 1510.38 | 526.3 | -2.8698 |
| -3.5887 | 4.05406E-08 | 966.8 | 264.1 | -3.66073 | | | | |
| -2.3455 | | | | | | | | |
| | | | | | 9.509E-12 | 4429.23 | 21988.4 | 4.9644 |
| 2.17922 | 1.35826E-09 | 4844.85 | 29153.8 | 6.01748 | 8.95564E-10 | 2149.5 | 13708.9 | 6.37772 |
| | 0.00227858 | 1864.78 | 5468.35 | 2.93244 | | | | |
| | 0.000421784 | 989.15 | 425.4 | -2.32522 | | | | |
| | | | | | 0.00302253 | 1444.03 | 526.933 | -2.74043 |
| 2.02922 | 1.15692E-06 | 3119.4 | 8628.8 | 2.76617 | | | | |
| 3.96857 | 6.99542E-08 | 1139.55 | 4118.08 | 3.61377 | 0.00001166 | 1662.68 | 4326.3 | 2.60201 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.0139627 | 966.625 | 409 | -2.36339 |
| | | | | | 0.0114215 | 1070.7 | 424.125 | -2.52449 |
| | 2.75905E-05 | 1257.43 | 394.225 | -3.18961 | | | | |
| | 0.00955086 | 580.833 | 284.8 | -2.03944 | 0.00256148 | 935.5 | 357.6 | -2.61605 |
| | 0.0118973 | 1120.9 | 364 | -3.0794 | | | | |
| -4.2934 | 8.69707E-07 | 3398.15 | 504.3 | -6.73835 | | | | |
| -3.6492 | 0.000004307 | 1864.95 | 421.1 | -4.42876 | | | | |
| | | | | | 3.54227E-06 | 1727.93 | 3495.58 | 2.02298 |
| -2.0954 | | | | | | | | |
| | 1.08418E-06 | 3020.88 | 907.025 | -3.33053 | 7.17659E-07 | 2444.15 | 999.6 | -2.44513 |
| | 6.22071E-05 | 3222.93 | 902.175 | -3.57239 | | | | |
| | 1.52016E-06 | 1030.05 | 354.9 | -2.90237 | | | | |
| | | | | | 0.000350471 | 4121.75 | 1971.25 | -2.09093 |
| | | | | | 0.0010099 | 1065.23 | 402.9 | -2.64389 |
| | 0.00659343 | 1204.33 | #DIV/0! | #DIV/0! | 0.003201 | 2870.87 | 1063.8 | -2.69869 |
| | | | | | 0.000758774 | 1632.73 | 748.2 | -2.1822 |
| | | | | | 0.00571715 | 1847.4 | 466.233 | -3.96239 |
| | 0.000586807 | 629.725 | 272.725 | -2.30901 | 4.00174E-06 | 1252.13 | 339 | -3.69358 |
| | | | | | 0.0162289 | 1025.13 | 390.4 | -2.62583 |
| | | | | | 0.00311018 | 980.8 | #DIV/0! | #DIV/0! |
| | | | | | 0.000392618 | #DIV/0! | 5776.93 | #DIV/0! |
| | | | | | 0.00124632 | 1798.2 | 742.475 | -2.4219 |
| | | | | | 2.95647E-13 | 3976.73 | 11783.9 | 2.9632 |
| | | | | | 0.000150279 | 1545.2 | 271.7 | -5.68715 |
| | 7.31361E-05 | 3373.58 | 1549.2 | -2.17762 | 1.07712E-06 | 3771.98 | 1423.85 | -2.64914 |
| -2.1627 | 0.000001846 | 2741.93 | 1258.1 | -2.17942 | 3.41857E-07 | 3748.73 | 1570.3 | -2.38727 |
| | 0.000337684 | 958.233 | 247.333 | -3.87426 | | | | |
| | 4.97899E-08 | 4234.4 | 9327.33 | 2.20275 | 4.31796E-11 | 2902.55 | 6826.43 | 2.35187 |
| | | | | | 2.38888E-05 | #DIV/0! | 1128.55 | #DIV/0! |
| -2.2199 | | | | | | | | |
| #DIV/0! | | | | | | | | |
| | | | | | 3.26803E-05 | 2605.23 | 6959.45 | 2.67134 |
| | | | | | 6.88766E-05 | #DIV/0! | 6504.55 | #DIV/0! |
| -2.3141 | 7.6157E-10 | 3790.55 | 1386.53 | -2.73385 | 1.88626E-06 | 3734.95 | 1866.15 | -2.00142 |
| -2.0746 | 0.000236993 | 4376.45 | 1792.63 | -2.44136 | | | | |
| -3.039 | 7.63043E-12 | 4824.88 | 1446.55 | -3.33544 | | | | |
| #DIV/0! | | | | | | | | |
| #DIV/0! | | | | | | | | |
| | | | | | 0.000768778 | 930.767 | 253.75 | -3.66805 |
| | | | | | 0.000223887 | 1338 | 431.2 | -3.10297 |
| | | | | | 0.00280536 | 1067.78 | 479.6 | -2.22639 |
| | | | | | 0.000290296 | 1157.77 | 504.2 | -2.29624 |
| 2.26892 | 0.000596432 | 1923.6 | 4597.35 | 2.38997 | 0.000577395 | 1153.9 | 2721.93 | 2.35889 |
| 2.1774 | 5.37678E-10 | 4604.15 | 18054 | 3.92123 | 5.75906E-09 | 3364.9 | 11149 | 3.31332 |
| | 1.72505E-06 | 9760.58 | 28393.2 | 2.90897 | 1.10041E-06 | 5433.5 | 18229.1 | 3.35494 |
| | | | | | 1.74184E-10 | 4258.9 | 9679.33 | 2.27273 |
| | 1.92143E-06 | 5548.68 | #DIV/0! | #DIV/0! | 1.9727E-13 | 16284.8 | #DIV/0! | #DIV/0! |
| -2.2994 | | | | | | | | |
| | 0.000249491 | 1293.85 | 430.2 | -3.00755 | 5.77635E-06 | 3220.2 | 771.575 | -4.17354 |
| | | | | | 0.00936395 | 1206.63 | 393.9 | -3.0633 |
| | 4.06253E-05 | 806.325 | 309.125 | -2.60841 | 3.59922E-08 | 2958.88 | 611.05 | -4.84228 |
| | | | | | 6.1153E-06 | 2071.93 | 707.875 | -2.92696 |
| | | | | | 0.00166642 | 1182.33 | 574.925 | -2.0565 |
| | | | | | 1.28764E-11 | 2880.8 | 6629.93 | 2.30142 |
| | | | | | 1.84595E-12 | #DIV/0! | 6240.73 | #DIV/0! |
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| | 6.73916E-06 | 12757.1 | 34127.9 | 2.67522 | 5.00189E-11 | 11318.9 | 55946.9 | 4.94277 |
| | 9.21921E-05 | 4488.3 | 12577.2 | 2.80222 | 2.92484E-10 | 2863.25 | 20903.9 | 7.30074 |
| | 2.11386E-06 | 5220.63 | 19901.1 | 3.81202 | 1.47924E-12 | 3146.3 | 29391.4 | 9.34157 |
| | 4.57333E-06 | 4106.65 | 18909.3 | 4.60454 | 1.04626E-10 | 2388.05 | 26556.4 | 11.1205 |
| | | | | | 0.00330443 | 1143.43 | 487.65 | -2.34477 |
| | | | | | 0.00792505 | 4890.3 | 1054.2 | -4.63887 |
| | | | | | 0.0103938 | 5508.75 | 1183.63 | -4.65413 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00110312 | 1397.1 | 600.067 | -2.32824 |
| | 0.000713568 | 1073.77 | 314.7 | -3.41203 | | | | |
| | 6.24956E-09 | 3060.3 | 6683.75 | 2.18402 | 6.83762E-13 | 2051.28 | 5981.7 | 2.91609 |
| | 6.87728E-09 | 3388.18 | 10534.1 | 3.10908 | 2.94538E-11 | 1991.78 | 7175.48 | 3.60255 |
| | | | | | 0.0222871 | 1162.63 | 432.3 | -2.68941 |
| | | | | | 9.53382E-08 | 2549.25 | 980.45 | -2.60008 |
| | | | | | 0.000259198 | 1176.75 | 457.25 | -2.57354 |
| | | | | | 1.64727E-07 | 2883.85 | 6401.03 | 2.21961 |
| -2.5996 | 1.09853E-07 | 1470.6 | 556.95 | -2.64045 | 3.62898E-06 | 2390.83 | 1004 | -2.3813 |
| | | | | | 9.06403E-05 | 5556.33 | 974.2 | -5.70347 |
| | | | | | 1.14247E-13 | 11884.5 | 34642.8 | 2.91496 |
| | 0.0002532 | 6013.5 | 2837.18 | -2.11954 | | | | |
| | | | | | 1.25729E-12 | 5304.03 | 11958.3 | 2.25457 |
| | | | | | 7.09353E-07 | #DIV/0! | 1277.5 | #DIV/0! |
| -2.45 | 6.34503E-07 | 3272.25 | 976.8 | -3.34997 | 6.7029E-07 | 3829.48 | 1156.6 | -3.31098 |
| | 6.69163E-11 | 15417.5 | 37354.2 | 2.42285 | 5.84136E-22 | 4775.55 | 31483.3 | 6.5926 |
| | | | | | 0.00275505 | 926.75 | 328.55 | -2.82073 |
| | | | | | 7.24979E-07 | 3819.43 | 795.8 | -4.79948 |
| | | | | | 0.00602771 | 1193.88 | 568.1 | -2.10152 |
| -2.4515 | 7.10459E-10 | 5040.55 | 1877.53 | -2.68468 | | | | |
| | | | | | 0.00182983 | 1320.75 | 468.7 | -2.8179 |
| | 0.000263961 | 20013.8 | 9134.9 | -2.19091 | | | | |
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| 2.29151 | 8.33091E-16 | 4414.45 | 29852.5 | 6.76245 | 4.78177E-15 | 5087.53 | 27358.9 | 5.37764 |
| 4.08089 | 9.26605E-15 | 2293.1 | 20714.5 | 9.03342 | 1.891E-15 | 2556.2 | 21215.1 | 8.29945 |
| | 0.00033072 | 2967.95 | 6200.78 | 2.08925 | | | | |
| | 1.71143E-06 | 15353.6 | 4882.35 | -3.14472 | 2.29648E-09 | 17299.6 | 3759.13 | -4.60202 |
| | 1.0223E-06 | 44958.3 | 17103.6 | -2.62859 | 1.10891E-10 | 54210.2 | 12697.6 | -4.26932 |
| | 6.48216E-05 | 3775.88 | 1302.93 | -2.898 | 0.00119327 | 3916.53 | 1746.55 | -2.24244 |
| | | | | | 0.00044441 | 1300.97 | 401.3 | -3.24188 |
| | | | | | 0.00873196 | 756.633 | 314.7 | -2.4043 |
| | | | | | 0.00502806 | 676.85 | #DIV/0! | #DIV/0! |
| | 6.51519E-06 | 2820.08 | 5903.65 | 2.09344 | 1.03967E-08 | 2405.63 | 6197.08 | 2.57608 |
| | | | | | 0.00214217 | #DIV/0! | 555.933 | #DIV/0! |
| | | | | | 4.19336E-05 | 6978.95 | 14386.5 | 2.06141 |
| | | | | | 0.000324085 | 3169.2 | 7057.43 | 2.22688 |
| | | | | | 9.77055E-07 | 964.933 | 2596.93 | 2.6913 |
| -2.544 | 7.23033E-06 | 1247.2 | 464.45 | -2.68533 | 1.09483E-05 | 1654.18 | 632.8 | -2.61406 |
| -2.5702 | 7.82026E-05 | 4745.88 | 1999.55 | -2.37347 | | | | |
| | | | | | 2.28892E-06 | 4051.23 | 8780.55 | 2.16738 |
| | | | | | 4.84931E-12 | 10854.2 | 23103.9 | 2.12856 |
| | 0.000328652 | 1050.5 | 2535.63 | 2.41373 | 1.25504E-05 | #DIV/0! | 1599.33 | #DIV/0! |
| | 0.000155045 | 3113.38 | 1459.33 | -2.13343 | | | | |
| -2.1534 | 0.000105376 | 850.2 | 374.575 | -2.26977 | 9.25342E-05 | 1207.75 | 474.9 | -2.54317 |
| -2.1995 | 0.000016885 | 1951.13 | 942.433 | -2.07031 | | | | |
| 3.05657 | 5.17277E-09 | 1317.2 | 4466.63 | 3.391 | 3.20468E-07 | 1288.95 | 3581.55 | 2.77866 |
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| #DIV/0! | 4.16534E-05 | #DIV/0! | 1188.6 | #DIV/0! | 0.0230764 | #DIV/0! | 998.975 | #DIV/0! |
| -2.1049 | 3.44858E-13 | 1692.18 | 444.85 | -3.80392 | 1.09836E-11 | 2195.58 | 636.475 | -3.44959 |
| | 3.79334E-06 | 815.825 | 239.75 | -3.40282 | 8.70027E-06 | 1217.33 | 458.9 | -2.6527 |
| | 5.37433E-06 | 1619.58 | 643.65 | -2.51624 | | | | |
| | | | | | 0.00539178 | 769.675 | 335.35 | -2.29514 |
| -3.9257 | | | | | | | | |
| | | | | | 8.63862E-09 | 2887.38 | 6048.13 | 2.09468 |
| | 0.00695387 | 552.65 | #DIV/0! | #DIV/0! | 0.0103435 | 1267.15 | 466.467 | -2.71649 |
| | | | | | 3.83401E-06 | 1465.2 | 434.15 | -3.37487 |
| -2.9902 | 1.27252E-06 | 1134.28 | 300.7 | -3.77212 | 1.28104E-07 | 1885.7 | #DIV/0! | #DIV/0! |
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| | 7.37374E-07 | 1208.3 | 333.575 | -3.62227 | 3.43071E-06 | 2542.8 | 779.55 | -3.26188 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 7.83469E-05 | 835.275 | 272.3 | -3.06748 |
| | | | | | 0.00110062 | 599.85 | 229.133 | -2.61791 |
| | | | | | 3.00883E-13 | 5658.58 | 15372.7 | 2.71671 |
| | | | | | 0.000303019 | 2649.98 | 1292.3 | -2.05059 |
| | 1.17817E-06 | 17402.8 | 37275.7 | 2.14194 | 9.02231E-13 | 10566.5 | 44430.6 | 4.20486 |
| | 4.80592E-07 | 16047.3 | 37993.3 | 2.36758 | 6.83544E-15 | 7447.9 | 42534.8 | 5.71097 |
| | 0.00789782 | 764.4 | 317.9 | -2.40453 | | | | |
| | | | | | 2.84739E-07 | #DIV/0! | 4965.73 | #DIV/0! |
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| -2.4942 | | | | | 9.06621E-10 | 3126.88 | 8291.6 | 2.65172 |
| -3.5059 | | | | | 4.70011E-05 | #DIV/0! | 2309.58 | #DIV/0! |
| -2.5164 | 1.72119E-07 | 13238.9 | 6223.03 | -2.12741 | | | | |
| -3.3968 | | | | | | | | |
| | 8.8143E-08 | 712.025 | 1876.65 | 2.63565 | | | | |
| -3.0738 | 2.55146E-10 | 3962.8 | 1011.47 | -3.91788 | 4.37103E-11 | 2732.7 | 711.033 | -3.84328 |
| -3.5031 | 6.00454E-09 | 4405.45 | 1425.5 | -3.09046 | 5.58848E-09 | 2047 | 641.925 | -3.18885 |
| -2.8548 | 3.01517E-12 | 6248.33 | 1853.33 | -3.37141 | 1.64063E-12 | 3365.65 | 1234.43 | -2.72647 |
| -2.395 | 2.68888E-10 | 4582.63 | 1374.13 | -3.33494 | | | | |
| -2.2582 | | | | | | | | |
| | | | | | 0.000204375 | 9522.53 | 28533.4 | 2.99641 |
| | | | | | 1.54188E-07 | 11128.8 | 45350.2 | 4.07504 |
| | 0.00853153 | 941.825 | 402.8 | -2.3382 | 1.85106E-05 | 1478.57 | 354.6 | -4.16967 |
| | | | | | | | | |
| | | | | | 0.000057723 | 3411.33 | 1175.4 | -2.90227 |
| | 0.00377591 | 794.7 | 305.65 | -2.60003 | 0.0167463 | 1950.03 | 710.4 | -2.74497 |
| 3.39741 | 6.20669E-07 | 10130.3 | 54545.6 | 5.38438 | 4.4766E-11 | 4945.75 | 60029.4 | 12.1376 |
| | | | | | 5.00616E-07 | #DIV/0! | 2314 | #DIV/0! |
| | 0.000214319 | 2050.58 | 655.975 | -3.126 | | | | |
| | 0.000142814 | 726.933 | 325.7 | -2.23191 | | | | |
| -2.3824 | 3.64173E-08 | 1450.2 | 569.5 | -2.54644 | | | | |
| | 0.000223825 | 2852.68 | 1340.17 | -2.1286 | | | | |
| -2.6676 | 2.63098E-09 | 2237.95 | 546 | -4.09881 | | | | |
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| | | | | | 1.22458E-07 | 3625.45 | 799.1 | -4.53692 |
| | | | | | 9.88264E-06 | 2443.5 | 1107.33 | -2.20667 |
| #DIV/0! | 9.47776E-05 | #DIV/0! | 2531.65 | #DIV/0! | 0.001114 | #DIV/0! | 2770.03 | #DIV/0! |
| | 0.00926743 | #DIV/0! | 1922.9 | #DIV/0! | 0.000312741 | #DIV/0! | 2329.75 | #DIV/0! |
| | | | | | 2.12807E-05 | 8016.75 | 2963.85 | -2.70484 |
| | | | | | 1.09987E-05 | 19842.6 | 7443.18 | -2.66588 |
| | | | | | 3.20218E-05 | 5699.25 | 2186.25 | -2.60686 |
| | | | | | 3.72452E-05 | 22430 | 8722.88 | -2.5714 |
| | | | | | 0.000407194 | 3241.5 | 1354.58 | -2.393 |
| | | | | | 0.00567703 | 1811.93 | 727.05 | -2.49217 |
| | | | | | 2.20666E-05 | 1465.25 | 408.65 | -3.58559 |
| | | | | | 0.000553331 | 4783.28 | 1530.3 | -3.12571 |
| | | | | | 1.54616E-14 | #DIV/0! | 3241.23 | #DIV/0! |
| 2.81182 | 1.94707E-06 | 36420.4 | 110950 | 3.04635 | 4.04184E-11 | 24508.1 | 142648 | 5.82045 |
| 3.95955 | 7.62319E-09 | 11265.7 | 57862.2 | 5.13613 | 3.43905E-13 | 6240.58 | 70098.5 | 11.2327 |
| | | | | | | | | |
| -4.6013 | 2.58523E-10 | 27219.3 | 3582.63 | -7.59757 | 7.12758E-10 | 9893.05 | 1567.25 | -6.31236 |
| | 0.00746834 | 593.2 | #DIV/0! | #DIV/0! | 0.00627476 | 1251.63 | 444.5 | -2.81582 |
| | 0.00197648 | 587.025 | #DIV/0! | #DIV/0! | | | | |
| | 0.000598261 | 1330.23 | #DIV/0! | #DIV/0! | 1.28861E-06 | 3743.78 | 919.1 | -4.07331 |
| | | | | | 0.00299501 | 1472.77 | 476.6 | -3.09015 |
| | | | | | 0.00127132 | 2559.93 | 1139.3 | -2.24693 |
| | | | | | 0.00129704 | 3413.15 | 954.075 | -3.57744 |
| | | | | | 0.00341044 | 3380.85 | 1330.43 | -2.54118 |
| | | | | | 0.00987901 | 893.75 | 407.4 | -2.19379 |
| | | | | | | | | |
| | 0.00961837 | 2753.2 | 6203.95 | 2.25336 | | | | |
| 2.07029 | 0.000804538 | 3532.33 | 8958.63 | 2.53618 | | | | |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| 2.25344 | 0.000637704 | 3488.25 | 9264.53 | 2.65592 | | | | |
| | 0.000745579 | 2921.13 | 7860.68 | 2.69098 | | | | |
| | 0.000138948 | 2682.03 | 8197.05 | 3.05629 | | | | |
| -2.019 | | | | | | | | |
| | 7.50731E-05 | 13312.4 | 39212 | 2.94552 | | | | |
| | 0.000273802 | 5408.37 | 1112.6 | -4.86102 | | | | |
| | | | | | 5.74675E-11 | 5679.05 | 1732.08 | -3.27876 |
| | | | | | 1.56559E-05 | 11495.3 | 39263.3 | 3.41559 |
| | | | | | 2.15015E-05 | 8609.25 | 1651.83 | -5.21196 |
| | | | | | 5.03273E-05 | 7594.33 | 2442.4 | -3.10937 |
| | | | | | 1.46591E-09 | 2440.95 | 5281.35 | 2.16365 |
| | | | | | 7.37903E-09 | 32806.2 | 84504.8 | 2.57588 |
| | | | | | 9.45386E-07 | 7434.8 | 30109.7 | 4.04983 |
| | | | | | 4.7616E-08 | 6570.38 | 26796 | 4.0783 |
| | | | | | 1.49595E-08 | 4891.95 | 24580.1 | 5.02459 |
| | 4.55381E-10 | 2062.58 | 5646.45 | 2.73757 | 9.50032E-15 | 1485.4 | 4060.85 | 2.73384 |
| | | | | | 2.15587E-14 | 10177.7 | 39456.1 | 3.87674 |
| | 9.0075E-10 | 11821.2 | 29187 | 2.46905 | 6.85778E-15 | 4851.18 | 19126.5 | 3.94264 |
| | 7.06231E-09 | 14774.4 | 33461.8 | 2.26485 | 3.56259E-15 | 5649.28 | 23026.8 | 4.07607 |
| | 2.85132E-09 | 32147.2 | 78702.4 | 2.44819 | 1.13094E-14 | 21452.3 | 86442.8 | 4.02954 |
| | 0.0112323 | #DIV/0! | 1278.47 | #DIV/0! | 0.00031288 | #DIV/0! | 1507.03 | #DIV/0! |
| 3.105 | 0.00250103 | 956 | 3736.73 | 3.90871 | | | | |
| | | | | | 8.16878E-07 | 9751.33 | 3162.35 | -3.08357 |
| | | | | | 1.90343E-06 | 2148.57 | #DIV/0! | #DIV/0! |
| | | | | | 0.002239 | 1336.07 | 531.2 | -2.51519 |
| | | | | | 3.34934E-05 | 1788.63 | #DIV/0! | #DIV/0! |
| | 0.000105755 | 4055.28 | 1975.1 | -2.0532 | | | | |
| | | | | | 3.436E-09 | 5506.6 | 14028.2 | 2.54752 |
| 4.05767 | 1.25753E-07 | 7632.05 | 30396.6 | 3.98276 | 2.4415E-09 | 6676.48 | 33236.9 | 4.97821 |
| | | | | | | | | |
| | | | | | 8.75347E-09 | 3387.88 | #DIV/0! | #DIV/0! |
| | | | | | 0.0171194 | 1099.33 | 485.267 | -2.26542 |
| | | | | | 2.46053E-05 | 7421.08 | 32711.6 | 4.40793 |
| | | | | | 0.00398662 | 1020.53 | 448.7 | -2.27442 |
| | | | | | 1.31036E-05 | 4494.83 | 1461.23 | -3.07607 |
| | | | | | 4.46781E-07 | 4149.8 | 14416.2 | 3.47394 |
| | 1.5267E-07 | 922.75 | 2177.98 | 2.36031 | | | | |
| | | | | | | | | |
| -3.1116 | 9.73565E-09 | 6557.9 | 1645.95 | -3.98426 | | | | |
| | | | | | 4.8207E-08 | 1743.28 | 507.9 | -3.43232 |
| | | | | | 8.36303E-05 | 1065.75 | 440.9 | -2.41721 |
| | 0.00434749 | 1447.73 | 588.5 | -2.46003 | | | | |
| | 0.0116595 | 599.833 | #DIV/0! | #DIV/0! | 9.52939E-05 | 2106.93 | 193.5 | -10.8885 |
| | 0.00022905 | 811.2 | 337.85 | -2.40107 | 0.000110682 | 1246.73 | 477.725 | -2.60971 |
| | 5.16085E-06 | 1100.93 | 396.2 | -2.77871 | 6.89115E-05 | 1625.5 | 631.025 | -2.57597 |
| | | | | | 4.70066E-05 | 1847.7 | #DIV/0! | #DIV/0! |
| | 6.42353E-08 | 5344.85 | 12929.9 | 2.41914 | 3.48355E-12 | 3865.3 | 14362.6 | 3.71577 |
| | | | | | 3.2547E-10 | 4822 | 1571.63 | -3.06816 |
| | | | | | 1.85036E-05 | 8910.68 | 3041.18 | -2.93001 |
| | | | | | 1.39696E-12 | 2078.03 | 5263.25 | 2.5328 |
| | | | | | 1.18659E-09 | #DIV/0! | 3258.28 | #DIV/0! |
| | | | | | 2.68838E-09 | #DIV/0! | 4644.05 | #DIV/0! |
| | | | | | 1.67751E-10 | 6427.6 | 15344.1 | 2.38722 |
| -2.0726 | 1.98641E-07 | 4044.75 | 1793.38 | -2.25538 | | | | |
| | 6.1671E-07 | 1384 | 624.425 | -2.21644 | | | | |
| | | | | | 2.58635E-06 | 2518.93 | 5431.88 | 2.15643 |
| | | | | | 4.77488E-07 | #DIV/0! | 3546.3 | #DIV/0! |
| | | | | | 0.0143858 | 848.525 | 289.833 | -2.92763 |
| 2.01625 | 7.04298E-07 | 16600.4 | 48670.6 | 2.9319 | | | | |
| 2.67225 | 7.84823E-06 | 4074.5 | 13948 | 3.42325 | | | | |
| | | | | | 4.28701E-11 | 1855.4 | 4483.48 | 2.41645 |
| | 0.00545524 | 960.425 | #DIV/0! | #DIV/0! | 9.26503E-05 | 2264 | #DIV/0! | #DIV/0! |
| | 2.13303E-05 | 606.2 | #DIV/0! | #DIV/0! | | | | |
| | 0.00241011 | 1625.78 | 617.7 | -2.63198 | | | | |
| | 0.000592784 | 568.025 | 189.4 | -2.99908 | | | | |

#DIV/0!

| | | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|--|
| | | | | | 2.09178E-06 | 1865.6 | 515.3 | -3.62042 | |
| | | | | | 0.010215 | 1812.4 | 554.333 | -3.26951 | |
| | | | | | 0.000261797 | 2816.83 | 1093.88 | -2.5751 | |
| | | | | | 0.00365102 | #DIV/0! | 646.433 | #DIV/0! | |
| | 0.0102467 | 1114.73 | #DIV/0! | #DIV/0! | 0.0119499 | 2496.07 | #DIV/0! | #DIV/0! | |
| | | | | | 0.0141992 | 1589.05 | 344 | -4.61933 | |
| | | | | | 0.00546372 | 1306.8 | #DIV/0! | #DIV/0! | |
| -2.1575 | 1.98952E-07 | 24371.5 | 9415.6 | -2.58842 | | | | | |
| 2.92435 | 6.33005E-09 | 863.275 | 4231.95 | 4.9022 | | | | | |
| 4.15437 | 2.43254E-06 | 354.6 | 1854.88 | 5.23089 | | | | | |
| -2.6809 | 1.18638E-09 | 3878.8 | 913.375 | -4.24667 | 1.55407E-08 | 3718.13 | 1115.58 | -3.33292 | |
| | 0.00464154 | 1825.48 | 685.9 | -2.66143 | | | | | |
| | | | | | 0.00458061 | 751.933 | 359.9 | -2.08928 | |
| #DIV/0! | | | | | | | | | |
| | 3.61725E-05 | 4188.58 | 8561.73 | 2.04407 | 2.3473E-08 | 2242.2 | 6492.18 | 2.89545 | |
| | | | | | 0.0011912 | 869.867 | 297.5 | -2.92392 | |
| | | | | | 0.00211895 | 2480.53 | 452 | -5.48789 | |
| 4.12642 | 1.93835E-06 | 2588.88 | 32598.8 | 12.5919 | 3.51939E-06 | 2582.97 | 19035.3 | 7.36956 | |
| | 0.000157428 | 726.167 | #DIV/0! | #DIV/0! | | | | | |
| | | | | | 0.0062461 | 1306.73 | 545.4 | -2.39592 | |
| -2.2906 | | | | | | | | | |
| | | | | | 8.50456E-09 | 2683.5 | 6549.3 | 2.44058 | |
| -2.4842 | | | | | | | | | |
| | 0.000146534 | 660.175 | 238.125 | -2.77239 | 0.00231593 | 1059.8 | 416.55 | -2.54423 | |
| -2.0519 | | | | | 3.5775E-14 | 6561.33 | 1007.5 | -6.51249 | |
| | 8.6289E-06 | 3337.98 | 1277.8 | -2.61228 | 4.23766E-09 | 6904.55 | 1598.35 | -4.3198 | |
| | 9.25962E-09 | 6267.48 | 1876.1 | -3.34069 | 8.82951E-15 | 17133.3 | 2087.5 | -8.20756 | |
| | 9.11056E-05 | 2182.9 | 499.133 | -4.37338 | | | | | |
| | | | | | 4.20947E-10 | 38507.5 | 121471 | 3.15447 | |
| -3.6074 | 0.000192504 | 26627.3 | 10382.9 | -2.56454 | | | | | |
| -4.2132 | | | | | | | | | |
| | | | | | 1.33101E-06 | 3485.55 | 1340 | -2.60116 | |
| | | | | | 0.00117754 | 1396.88 | 567.65 | -2.4608 | |
| 5.28353 | 0.000511492 | 799.475 | 1710.68 | 2.13975 | 0.000124674 | 1520.9 | 3726.6 | 2.45026 | |
| | 0.00301045 | 1044.2 | 473.3 | -2.20621 | 0.000578083 | 1346.47 | 355.3 | -3.78966 | |
| | | | | | 0.000419375 | 941.033 | #DIV/0! | #DIV/0! | |
| | | | | | 0.00519626 | 1575.2 | 749.85 | -2.10069 | |
| | 7.38999E-06 | 504.35 | #DIV/0! | #DIV/0! | 9.07705E-06 | 1042.53 | 271.6 | -3.83846 | |
| | | | | | 0.00102292 | 909.125 | 228.6 | -3.97692 | |
| | 7.81563E-06 | 595.25 | 294 | -2.02466 | | | | | |
| | | | | | 5.96209E-07 | 910.15 | #DIV/0! | #DIV/0! | |
| | | | | | 2.45826E-10 | 5275.33 | 2038.1 | -2.58835 | |
| | 2.20231E-05 | 985.475 | 405.567 | -2.42987 | 1.84897E-05 | 1499.53 | 691.7 | -2.16788 | |
| | | | | | 0.00544832 | #DIV/0! | 1951.53 | #DIV/0! | |
| | | | | | 2.76077E-07 | 7329.18 | 15284.4 | 2.08541 | |
| | | | | | 2.46127E-12 | 3197.33 | 8710.53 | 2.72432 | |
| | 5.32256E-07 | 1189.85 | 510.375 | -2.33133 | | | | | |
| | | | | | 1.9474E-14 | 5603.08 | 15266.9 | 2.72473 | |
| | | | | | 1.52512E-11 | 3202.6 | 10494 | 3.27671 | |
| | 0.000114669 | 2044.1 | 10512.7 | 5.14294 | 5.31222E-06 | 3228.5 | 8682.8 | 2.68942 | |
| | 0.000282071 | #DIV/0! | 1821.63 | #DIV/0! | | | | | |
| | | | | | 3.00129E-06 | 3594.28 | 1084.73 | -3.31354 | |
| | 0.00352451 | 1313.97 | 464.9 | -2.82634 | | | | | |
| | | | | | 3.84893E-05 | 940.375 | 428.95 | -2.19227 | |
| | | | | | 0.00243499 | #DIV/0! | 570.433 | #DIV/0! | |
| | 2.54265E-05 | 1748.68 | 705.5 | -2.47863 | | | | | |
| | | | | | 0.000111588 | 2216.1 | 4922 | 2.22102 | |
| | | | | | 4.54999E-06 | #DIV/0! | 2459.9 | #DIV/0! | |
| | | | | | 0.000336787 | 1244.5 | 347.2 | -3.58439 | |
| | | | | | 5.99301E-09 | 3650.13 | 7612.4 | 2.08552 | |

| | | | | | | | | | |
|--|-------------|-------------|---------|-------------|------------|-------------|----------|----------|---------|
| | | | | 0.000001729 | 3573.33 | 8098.38 | 2.26634 | | |
| | | | | 4.77282E-07 | 2567.7 | 6308.65 | 2.45693 | | |
| | 5.94764E-09 | 1772.08 | 569.35 | -3.11245 | 1.2049E-06 | 1988.23 | 774.9 | -2.56578 | |
| | 6.80861E-07 | 1024.53 | 396.775 | -2.58213 | | | | | |
| | | | | 0.000250342 | 793.767 | 241.2 | -3.29091 | | |
| | | | | 0.000136843 | 953.275 | 267.233 | -3.5672 | | |
| | | | | 3.86224E-05 | 2001.3 | 555.8 | -3.60076 | | |
| | | | | 0.001222294 | 2001.75 | 752.375 | -2.66057 | | |
| | 0.000117037 | 1112.4 | 2415.15 | 2.17112 | | | | | |
| | 6.46617E-09 | 6425.55 | 23976.2 | 3.73139 | | | | | |
| | | | | 1.35841E-10 | 4718.88 | 21136.7 | 4.47918 | | |
| | | | | 7.32222E-07 | 6496.17 | 3080.8 | -2.1086 | | |
| | | | | 0.00174648 | #DIV/0! | 2633.83 | #DIV/0! | | |
| | -2.7671 | 6.64174E-06 | 1174.48 | 478.075 | -2.45668 | 0.000043162 | 1634.8 | 749.6 | -2.1809 |
| | 3.52747 | 0.000645179 | 1014.4 | 2461.68 | 2.42673 | 9.97954E-05 | 1292.1 | 2886.63 | 2.23406 |
| | 4.66598 | 1.90896E-11 | 2009.03 | 15760.5 | 7.84483 | 7.35775E-13 | 1904.73 | 12390.7 | 6.50522 |
| | 2.14554 | | | | | | | | |
| | | | | 3.37681E-06 | 2747.5 | 670 | -4.10075 | | |
| | | | | 0.000163736 | 2136.4 | 393.475 | -5.42957 | | |
| | 0.00822512 | 566.6 | #DIV/0! | #DIV/0! | | | | | |
| | | | | 4.63499E-05 | 4769.25 | 9734.33 | 2.04106 | | |
| | | | | 1.54782E-06 | 6972.18 | 14260.8 | 2.04539 | | |
| | | | | 3.20066E-05 | 4964.05 | 10870.1 | 2.18977 | | |
| | | | | 7.75512E-07 | #DIV/0! | 2598.18 | #DIV/0! | | |
| | 0.00135969 | 468.067 | 1239.1 | 2.64727 | | | | | |
| | | | | 0.0036599 | #DIV/0! | 742.275 | #DIV/0! | | |
| | | | | 7.77451E-05 | 2264.93 | 1008.48 | -2.24589 | | |
| | | | | 4.78868E-05 | 1325.15 | 600.175 | -2.20794 | | |
| | | | | 0.000735425 | 780.033 | 384.3 | -2.02975 | | |
| | | | | 1.10537E-05 | 1749.28 | 727.267 | -2.40527 | | |
| | | | | 3.31723E-07 | 9374.83 | 21959.5 | 2.34239 | | |
| | | | | 0.0194405 | #DIV/0! | 1421.2 | #DIV/0! | | |
| | | | | 5.11305E-06 | 5684.83 | 11900.7 | 2.09342 | | |
| | | | | 0.000228356 | 3993.18 | 8480.53 | 2.12375 | | |
| | | | | 0.00026169 | 1346.63 | 663 | -2.03112 | | |
| | | | | 0.00570562 | 1168.17 | #DIV/0! | #DIV/0! | | |
| | | | | 1.49234E-05 | 1239.48 | 609.1 | -2.03493 | | |
| | 2.24669 | 1.24705E-10 | 5475.55 | 19284.3 | 3.52189 | 7.33234E-06 | 4011.48 | 8162.9 | 2.03489 |
| | | 1.32516E-09 | 2012.8 | 5171.78 | 2.56944 | 4.24931E-13 | 1240.85 | 4187.45 | 3.37466 |
| | | | | | | 7.36701E-13 | 4795.23 | 17143.3 | 3.57507 |
| | | | | | | 6.57164E-12 | 18178.4 | 100587 | 5.53335 |
| | | | | | | 1.03862E-10 | #DIV/0! | 5266.95 | #DIV/0! |
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| | | | | 0.00139345 | 712.233 | #DIV/0! | #DIV/0! | | |
| | | | | 2.06584E-07 | 3030.93 | 722.75 | -4.1936 | | |
| | | | | 0.000743693 | 863.833 | 220.3 | -3.92117 | | |
| | | | | 1.4927E-11 | 3238.98 | 10219.6 | 3.15518 | | |
| | | | | 4.94295E-10 | 4655.2 | 10376 | 2.2289 | | |
| | | | | 2.78677E-05 | #DIV/0! | 3877.9 | #DIV/0! | | |
| | 0.00585118 | 533 | #DIV/0! | #DIV/0! | | | | | |
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| | -2.4651 | | | | | | | | |
| | | | | 3.90637E-18 | 8975.95 | 43523.4 | 4.84889 | | |
| | | | | 7.9848E-20 | 4969.65 | 21433.8 | 4.31293 | | |
| | | | | 4.51783E-14 | 4524.13 | 19597.9 | 4.33186 | | |
| | | | | 3.46459E-20 | 4488.45 | 25980.8 | 5.78836 | | |
| | | | | 1.85209E-10 | 1779.88 | 3674.55 | 2.0645 | | |
| | | | | 5.54487E-07 | 2207.8 | 5158.73 | 2.33659 | | |
| | | | | 3.8601E-16 | 8482.48 | 36618.9 | 4.317 | | |
| | 2.73169 | 2.45831E-11 | 15548.2 | 43154.3 | 2.77551 | | | | |
| | | | | 3.27188E-12 | 5991.73 | 16753.2 | 2.79606 | | |
| | | | | 0.010685 | 815.633 | 313 | -2.60586 | | |
| | | | | 2.15443E-07 | 4239.85 | 1485.58 | -2.85401 | | |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 1.16295E-09 | 5967.15 | 15625.1 | 2.61851 |
| | 4.84124E-07 | 1723.5 | 4226.18 | 2.45209 | | | | |
| | 0.000164244 | 748.525 | 273.5 | -2.73684 | | | | |
| | | | | | 5.33126E-08 | 4445.58 | 12244 | 2.7542 |
| | | | | | 1.13653E-13 | 5975.58 | 26323.5 | 4.40517 |
| | 2.51377E-11 | 9359.33 | 25876.3 | 2.76476 | 4.40319E-19 | 2887.1 | 18275.3 | 6.32998 |
| #DIV/0! | 8.16027E-06 | 1522.85 | #DIV/0! | #DIV/0! | 7.74624E-07 | 2710.15 | 591.2 | -4.58415 |
| -2.0508 | | | | | | | | |
| -7.4729 | 2.1941E-07 | 3502.15 | 424.3 | -8.25395 | 4.96785E-06 | 2475.85 | #DIV/0! | #DIV/0! |
| | 0.000529373 | 724.367 | #DIV/0! | #DIV/0! | 0.00371286 | 1644.4 | 720.3 | -2.28294 |
| | 0.00124758 | 759.567 | 2608 | 3.43354 | | | | |
| | | | | | 9.94152E-12 | 3137.37 | 21551.4 | 6.86926 |
| | | | | | 9.24954E-08 | 6449.9 | 24020.6 | 3.72417 |
| | | | | | 7.60519E-05 | 3747.2 | 7945.1 | 2.12028 |
| -2.2749 | | | | | | | | |
| | | | | | 9.97381E-05 | 5688.13 | 11536.7 | 2.0282 |
| | | | | | 8.20869E-08 | 2276.73 | 4699.45 | 2.06413 |
| | | | | | 2.03003E-07 | 2600.38 | 7121.38 | 2.7386 |
| 2.23809 | 5.02461E-06 | 1603.5 | 3999.45 | 2.4942 | 4.72275E-07 | 1823.35 | 5371.4 | 2.9459 |
| 2.18534 | 2.74961E-06 | 959.05 | 3444.85 | 3.59194 | 4.15344E-06 | 1079.73 | 3245.4 | 3.00577 |
| | | | | | 3.45974E-08 | 2221.5 | 5497.2 | 2.47454 |
| | 7.12234E-07 | 1843.65 | 3932.53 | 2.13301 | | | | |
| | | | | | 9.94544E-10 | 1577.13 | 447.2 | -3.52667 |
| | 1.19944E-05 | 3089.8 | 6704.88 | 2.17 | | | | |
| | 5.59597E-08 | 4636.48 | 10748.6 | 2.31827 | | | | |
| | 0.000497479 | 1550.45 | 4598.25 | 2.96575 | 4.92825E-06 | 1739.43 | 8017.03 | 4.60901 |
| | 4.82676E-05 | 522.325 | 239.4 | -2.18181 | 5.72654E-08 | 1006.18 | 304.775 | -3.30137 |
| | | | | | 1.20352E-07 | 2572.1 | 1169.03 | -2.20021 |
| -4.4302 | 4.79344E-15 | 54320.5 | 4730.43 | -11.4832 | 1.21651E-17 | 90909.3 | 4933.85 | -18.4256 |
| | | | | | 0.000300754 | 774.2 | #DIV/0! | #DIV/0! |
| | 7.39969E-05 | 1855.88 | 900.35 | -2.06128 | 5.68192E-07 | 2773.4 | 1075.73 | -2.57817 |
| | | | | | 5.41239E-05 | 1119 | 402.167 | -2.78243 |
| | 1.37953E-05 | 4717.83 | 12203 | 2.58658 | 6.93183E-11 | 3322.05 | 15626.5 | 4.70388 |
| | | | | | 4.45992E-05 | #DIV/0! | 3921.4 | #DIV/0! |
| | | | | | 0.00345443 | 1599.97 | 738.8 | -2.16563 |
| | | | | | 5.81739E-05 | 1332.73 | 462.3 | -2.88283 |
| | | | | | 0.000793783 | 1581.18 | 397.375 | -3.97905 |
| | 0.00978903 | 4595.15 | 1529.55 | -3.00425 | | | | |
| | | | | | 1.23997E-14 | 30705.8 | 147781 | 4.81281 |
| | | | | | 2.06591E-06 | 1546.75 | 531.95 | -2.9077 |
| | | | | | 2.08006E-05 | 2753.03 | 6610.33 | 2.40111 |
| | | | | | 1.79182E-15 | 16000.3 | 117316 | 7.33208 |
| -2.3953 | 9.34775E-10 | 26936.8 | 93009.3 | 3.45288 | | | | |
| -2.2295 | 0.00372068 | 90637.4 | 35054.3 | -2.58563 | | | | |
| -2.0862 | | | | | | | | |
| | | | | | 0.00322124 | 3503.38 | 736.625 | -4.75598 |
| | | | | | 2.6327E-11 | 16274.5 | 44705.3 | 2.74696 |
| 8.63653 | 7.54526E-08 | 1286.05 | 12948.1 | 10.0681 | 0.0127278 | 2617.93 | 6150.9 | 2.34953 |
| | 0.00149802 | #DIV/0! | 2655.35 | #DIV/0! | 0.0193585 | #DIV/0! | 1444.67 | #DIV/0! |
| | 1.69055E-05 | 845.7 | 3998.38 | 4.72789 | | | | |
| | | | | | 1.04655E-08 | 1315.53 | 3994.15 | 3.03616 |
| | | | | | 0.00149158 | 1086.98 | 419.75 | -2.58958 |
| | | | | | 0.00214688 | 1597.43 | 655.275 | -2.43779 |
| | 3.18932E-08 | 13380.6 | 32277.8 | 2.41229 | 1.3085E-13 | 7697.65 | 28899.7 | 3.75435 |
| | 6.86783E-05 | 4435.5 | 9643.65 | 2.1742 | 8.76157E-11 | #DIV/0! | 10382.9 | #DIV/0! |
| | 5.47103E-14 | 5053.65 | 14030.2 | 2.77625 | 4.00977E-20 | 2674.98 | 13184.3 | 4.92877 |
| | 0.000120041 | 681.667 | #DIV/0! | #DIV/0! | 0.000402743 | 1336.27 | 424.1 | -3.15083 |
| 2.01196 | 4.07909E-13 | 3235.58 | 12460.3 | 3.85104 | 1.42473E-14 | 2842.9 | 11950.1 | 4.20348 |
| | 4.85466E-10 | 3223.48 | 12220.4 | 3.79107 | 9.14214E-13 | 2809.55 | 14439.8 | 5.13954 |
| #DIV/0! | | | | | | | | |
| 3.02131 | 5.20628E-07 | 1030.6 | 2408.18 | 2.33667 | 2.96937E-13 | #DIV/0! | 3789.2 | #DIV/0! |
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| | 0.0021963 | #DIV/0! | 2506.53 | #DIV/0! | 2.84466E-06 | #DIV/0! | 3322.13 | #DIV/0! |
| | | | | | 0.00205727 | #DIV/0! | 1579.18 | #DIV/0! |
| | 0.00197604 | 1308.35 | 556.425 | -2.35135 | 0.00193471 | 2114.78 | 835.95 | -2.52979 |
| | 4.27093E-07 | 1025.73 | #DIV/0! | #DIV/0! | 2.97385E-05 | 1933.57 | 897.7 | -2.15391 |
| | | | | | 8.98E-13 | 2554.5 | 10282.4 | 4.02522 |
| | | | | | 2.7113E-06 | 2481.35 | 5293.75 | 2.13342 |
| | | | | | 6.8931E-06 | 3510.03 | 1113.98 | -3.1509 |
| | | | | | 6.1686E-07 | 3823.78 | 8834.38 | 2.31038 |
| | | | | | 1.12335E-09 | 5327.83 | 14955.2 | 2.807 |
| | 1.20621E-06 | 5358.85 | 11866.4 | 2.21436 | 4.36769E-09 | 3422.05 | 9724.78 | 2.8418 |
| | | | | | 0.000631074 | 1625.53 | 568.05 | -2.86159 |
| | | | | | 6.46708E-20 | 10031.1 | 31234.2 | 3.11374 |
| -2.4186 | | | | | | | | |
| | 0.00362872 | 1320.48 | 434.425 | -3.03959 | 0.00299102 | 2193.08 | 785.75 | -2.79106 |
| | 1.46616E-05 | 33712.4 | 16585.2 | -2.03268 | 3.10617E-05 | 58585.8 | 28795.5 | -2.03455 |
| | 0.000222504 | 881.35 | 343.8 | -2.56355 | | | | |
| | | | | | 1.39287E-07 | 37158.1 | 79905.5 | 2.15042 |
| | | | | | 1.03234E-08 | 23402.2 | 51476.9 | 2.19966 |
| | 0.00158975 | 583.25 | 285.925 | -2.03987 | | | | |
| | | | | | 4.49782E-14 | 18407.7 | 71642.2 | 3.89197 |
| -2.1806 | 2.10592E-05 | 2542.73 | 1131.68 | -2.24687 | | | | |
| | | | | | 0.00289219 | 1299.8 | 553.333 | -2.34904 |
| | | | | | 0.00154854 | 2589.33 | 1179.95 | -2.19444 |
| | 0.000209565 | 836 | #DIV/0! | #DIV/0! | 3.81683E-08 | 1394.7 | #DIV/0! | #DIV/0! |
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| -2.2315 | | | | | | | | |
| | | | | | 0.00194535 | #DIV/0! | 776.567 | #DIV/0! |
| | | | | | 1.34988E-06 | #DIV/0! | 2506.43 | #DIV/0! |
| | 1.59558E-06 | 5881.08 | 12265.1 | 2.08551 | 2.34164E-07 | 4156.93 | 9145.48 | 2.20006 |
| | | | | | 5.50433E-13 | 1148.7 | 3869.43 | 3.36853 |
| | | | | | 5.70577E-06 | #DIV/0! | 803.875 | #DIV/0! |
| | | | | | 3.08529E-05 | #DIV/0! | 597.65 | #DIV/0! |
| | | | | | 1.82935E-07 | 1864.03 | #DIV/0! | #DIV/0! |
| | 2.77257E-06 | 4200.48 | 1935.93 | -2.16975 | 5.19363E-11 | 7242.6 | 2085.78 | -3.47238 |
| | 1.323E-10 | 5229.68 | 12251.4 | 2.34266 | 5.73415E-13 | 3419.85 | 10205.1 | 2.98406 |
| | 3.28093E-10 | 6339.2 | 16242.7 | 2.56226 | 1.33313E-13 | 3601.3 | 12259.1 | 3.40408 |
| | 4.68614E-07 | 4557.6 | 9946.88 | 2.18248 | 1.27832E-09 | #DIV/0! | 8144.05 | #DIV/0! |
| | | | | | 9.74108E-08 | 2633.25 | 1007.25 | -2.6143 |
| | | | | | 0.00171528 | 986.6 | 153.4 | -6.43155 |
| | | | | | 0.00837281 | 991.733 | 261.2 | -3.79684 |
| | 0.0153552 | 844.5 | #DIV/0! | #DIV/0! | | | | |
| | 5.39608E-05 | 996.875 | 332.7 | -2.99632 | 2.01813E-05 | 1695.48 | 615.933 | -2.75269 |
| -3.0589 | 9.81493E-07 | 1596.18 | 402.35 | -3.96713 | 0.000022835 | 2674.83 | 810.85 | -3.29879 |
| | | | | | 0.00281759 | #DIV/0! | 2287.2 | #DIV/0! |
| | 0.000906696 | 1228.27 | 314.433 | -3.90629 | 5.83313E-06 | 2464.25 | 497.15 | -4.95675 |
| | 0.00964908 | 600.867 | 289.033 | -2.07888 | | | | |
| | 7.22228E-06 | 996.575 | 359.233 | -2.77417 | 1.14226E-07 | 1802.98 | 436.533 | -4.13021 |
| | 0.000356635 | 1438.63 | 564.8 | -2.54714 | 9.71054E-06 | 2852.15 | 812.175 | -3.51174 |
| | | | | | 6.51357E-05 | 2008.2 | 932.3 | -2.15403 |
| | | | | | 0.0230454 | 942.033 | 450.567 | -2.09077 |
| 13.3847 | | | | | 0.00765664 | #DIV/0! | 1138.88 | #DIV/0! |
| | 0.000022648 | 1615.5 | 587.55 | -2.74955 | | | | |
| | 0.00192785 | 855.167 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.000398659 | 2334.23 | 375.275 | -6.22004 |
| | | | | | 0.00177218 | 1063.75 | 292.3 | -3.63924 |
| | | | | | 0.0106998 | 1878.03 | #DIV/0! | #DIV/0! |
| | | | | | 1.58928E-10 | 3944.1 | 12844.7 | 3.25668 |
| | | | | | 2.08579E-13 | 2914.77 | 14118.8 | 4.8439 |
| | 3.9013E-10 | 5922.5 | 15968.5 | 2.69624 | 2.60003E-17 | 2352.75 | 13752 | 5.84507 |
| | | | | | 0.00292547 | 1340.13 | 286 | -4.68575 |
| | 2.32466E-05 | 958.85 | 429.133 | -2.23439 | | | | |
| | 0.00062938 | 559.2 | 1551.18 | 2.77392 | | | | |
| | 0.00113242 | 625.833 | 267.25 | -2.34175 | 0.000813777 | 770.067 | 279 | -2.7601 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 0.000004106 | 1582 | 588.025 | -2.69036 | 1.87293E-09 | 3431.73 | 803.725 | -4.26978 |
| | 0.000385263 | #DIV/0! | 2757.17 | #DIV/0! | 1.04648E-06 | #DIV/0! | 3538.08 | #DIV/0! |
| | 2.11905E-06 | 2018.93 | 662.967 | -3.04529 | 0.000510118 | #DIV/0! | 2216.85 | #DIV/0! |
| | | | | | 2.45105E-06 | 2480.87 | 776.25 | -3.19596 |
| | | | | | 0.00106384 | 1185.68 | #DIV/0! | #DIV/0! |
| | | | | | 4.96153E-11 | 4481.68 | 10641 | 2.37433 |
| | | | | | 7.62002E-10 | 5355.75 | 11533.1 | 2.15341 |
| | | | | | 8.81772E-12 | 8953.63 | 20501.9 | 2.28979 |
| | | | | | 4.23568E-17 | 3395.23 | 14407.1 | 4.24334 |
| | 0.00115383 | 3956.35 | 9150.7 | 2.31291 | 6.97588E-12 | #DIV/0! | 12332.4 | #DIV/0! |
| | | | | | 3.13627E-09 | 3275.45 | 7630.93 | 2.32973 |
| | | | | | 0.00104741 | 1548.77 | 259 | -5.97979 |
| | | | | | 0.0101449 | #DIV/0! | 5216.95 | #DIV/0! |
| | | | | | 1.50616E-16 | 3539.58 | 11817.9 | 3.33878 |
| | | | | | 0.000151612 | #DIV/0! | 1246.43 | #DIV/0! |
| #DIV/0! | 0.00240514 | #DIV/0! | 1744.93 | #DIV/0! | 0.00165492 | #DIV/0! | 2394.07 | #DIV/0! |
| #DIV/0! | 1.16961E-05 | #DIV/0! | 1913.45 | #DIV/0! | 0.0014989 | #DIV/0! | 2503.35 | #DIV/0! |
| | 1.97433E-07 | 45995 | 21910.2 | -2.09925 | 1.02885E-09 | 29703.4 | 11904.2 | -2.49521 |
| | 0.000257746 | 4975.33 | 10409.6 | 2.09225 | 2.29917E-10 | 1686.13 | 7723.93 | 4.58087 |
| | 1.614E-07 | 10794.4 | 28393.2 | 2.63036 | 1.07148E-14 | 3967.5 | 23288.3 | 5.86977 |
| | 0.00003615 | 1546.7 | 511.35 | -3.02474 | 8.95012E-07 | 3213.75 | 861.75 | -3.72933 |
| | 2.81354E-05 | 1194.83 | 542.325 | -2.20315 | | | | |
| | | | | | 9.03325E-11 | 16833.4 | 41811 | 2.48381 |
| | | | | | 7.93289E-12 | 10635.8 | 31305.5 | 2.9434 |
| | | | | | 4.36217E-07 | #DIV/0! | 1815.17 | #DIV/0! |
| | | | | | 9.19715E-13 | 6336.68 | 19372.6 | 3.05722 |
| | 0.000296038 | 3014.43 | 1165.2 | -2.58705 | 1.40538E-06 | 5290.2 | 1302.05 | -4.06298 |
| | 3.65778E-07 | 4653.58 | 10031.2 | 2.1556 | 6.42768E-07 | 5072.25 | 10460.5 | 2.06229 |
| | | | | | 7.12171E-11 | 6805.6 | 13629.8 | 2.00273 |
| | | | | | 0.00264225 | 1777.48 | 776.825 | -2.28813 |
| | | | | | 2.93572E-13 | 5036.9 | 18701.1 | 3.71281 |
| | | | | | 4.14184E-11 | 3347.8 | 12699.6 | 3.79341 |
| | 4.91309E-05 | 8386.83 | 17201.3 | 2.05099 | 7.12356E-14 | 2790.53 | 15100.3 | 5.41127 |
| | 0.000141273 | 4581.8 | 13376.5 | 2.91949 | | | | |
| | | | | | 2.81851E-06 | 1309.83 | 497 | -2.63546 |
| | | | | | 1.97475E-06 | 1430.18 | 424.6 | -3.36829 |
| | | | | | 4.80438E-06 | 859.2 | #DIV/0! | #DIV/0! |
| | | | | | 4.98263E-07 | 1751.9 | 5240.73 | 2.99145 |
| | | | | | 0.000491933 | 1140.58 | 517.9 | -2.20231 |
| | | | | | 1.46453E-08 | 974.825 | 383.6 | -2.54125 |
| | | | | | 0.000281982 | 896.7 | #DIV/0! | #DIV/0! |
| | | | | | 0.000897184 | 1514.17 | 386.7 | -3.91561 |
| | 0.0000263 | 8847.75 | 3130 | -2.82676 | 0.000612947 | 14323.9 | 7157.38 | -2.00127 |
| | 0.00418934 | 914.833 | #DIV/0! | #DIV/0! | 8.23797E-07 | 1261.8 | #DIV/0! | #DIV/0! |
| | | | | | 1.00161E-10 | #DIV/0! | 2809.53 | #DIV/0! |
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| | | | | | 0.000218065 | #DIV/0! | 3606.7 | #DIV/0! |
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| | | | | | 8.90016E-05 | #DIV/0! | 2474.75 | #DIV/0! |
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| | | | | | 2.5232E-06 | #DIV/0! | 1739.78 | #DIV/0! |
| | 8.14787E-07 | 3038.88 | 1167.03 | -2.60395 | | | | |
| | | | | | 0.00118973 | 696.167 | #DIV/0! | #DIV/0! |
| | 3.23137E-05 | 1588.58 | 769.475 | -2.06449 | | | | |
| | | | | | 7.61574E-07 | 2101.13 | 4279.95 | 2.03698 |
| | | | | | 2.58564E-07 | 2298.35 | 5464.03 | 2.37737 |
| | | | | | 1.50731E-09 | 3363.5 | 9014 | 2.67995 |
| | | | | | 2.08703E-11 | 3674.93 | 11498.4 | 3.12887 |
| #DIV/0! | 1.15629E-09 | #DIV/0! | 3465.9 | #DIV/0! | | | | |
| -4.1132 | 1.27082E-06 | 9055.5 | 1446.08 | -6.26212 | | | | |

-4.6205

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 2.36698E-08 | 7521.33 | 16120.9 | 2.14336 |
| | | | | | 0.0136029 | #DIV/0! | 904.867 | #DIV/0! |
| | 5.90754E-05 | 2376.3 | 937.95 | -2.5335 | 0.000010799 | 2189.35 | 832.475 | -2.62993 |
| | | | | | 0.000559311 | 6989.83 | 1547.6 | -4.51656 |
| | | | | | 2.76334E-06 | 2781.25 | 1304.98 | -2.13127 |
| | | | | | 2.23659E-11 | 9043.65 | 27312 | 3.02001 |
| | | | | | 0.00288145 | 1836.3 | 4255.6 | 2.31749 |
| | | | | | 0.00405898 | #DIV/0! | 1147.25 | #DIV/0! |
| | 7.84806E-05 | 2411.63 | 10291.7 | 4.26755 | | | | |
| | | | | | 0.000827998 | 1313.38 | 339.975 | -3.86315 |
| -2.1455 | 4.62936E-11 | 1876.08 | 325.6 | -5.7619 | 2.16397E-07 | 1969.53 | 718.2 | -2.74231 |
| #DIV/0! | 5.51503E-05 | 1427.53 | 368.2 | -3.87706 | 0.00124681 | 1809.88 | #DIV/0! | #DIV/0! |
| | | | | | 1.83131E-07 | #DIV/0! | 5189.1 | #DIV/0! |
| | | | | | 0.00924406 | 1190.2 | 379.6 | -3.13541 |
| | 3.76333E-06 | 3234.3 | #DIV/0! | #DIV/0! | 8.16005E-09 | 7355.63 | #DIV/0! | #DIV/0! |
| | | | | | 0.00353532 | 3125.8 | 747.7 | -4.18055 |
| | | | | | 9.85359E-09 | 2584.43 | 5511.68 | 2.13265 |
| | | | | | 1.95733E-11 | 2853.08 | 6982.78 | 2.44746 |
| | | | | | 1.44496E-09 | #DIV/0! | 4811.48 | #DIV/0! |
| | | | | | 1.67214E-21 | 3409.23 | 15130.2 | 4.438 |
| | | | | | 0.000169719 | #DIV/0! | 2071.05 | #DIV/0! |
| | 4.52529E-05 | 2176.08 | 1077.6 | -2.01937 | | | | |
| | 0.000831724 | 596.825 | 247.75 | -2.40898 | 1.26937E-05 | 1406.53 | 444.65 | -3.16322 |
| | | | | | 0.000892259 | #DIV/0! | 1298.85 | #DIV/0! |
| | | | | | 2.16234E-07 | 3341.9 | 1549.8 | -2.15634 |
| | 2.95181E-06 | 622.05 | 218.7 | -2.84431 | | | | |
| 2.59415 | 7.57338E-10 | 2882.23 | 11112.9 | 3.85565 | | | | |
| | | | | | 2.09454E-05 | 3231 | 1463.05 | -2.2084 |
| | 2.69782E-09 | 4059.85 | 15153.2 | 3.73244 | 6.69659E-12 | 2432.93 | 12645.6 | 5.19769 |
| | 1.54138E-07 | 1959.93 | 928.075 | -2.11182 | | | | |
| | | | | | 3.90125E-06 | #DIV/0! | 3468.28 | #DIV/0! |
| | | | | | 5.26524E-15 | 7596.95 | 26735.9 | 3.51929 |
| | | | | | 2.18861E-16 | 6915.58 | 26969.4 | 3.8998 |
| | 0.000416986 | 2936.53 | 882.875 | -3.3261 | | | | |
| | | | | | 4.62253E-06 | 25885.8 | 53210.1 | 2.05557 |
| | | | | | 1.5476E-07 | 15989.5 | 41470 | 2.59358 |
| | 1.0223E-06 | 3380.93 | 1600.58 | -2.11232 | | | | |
| -2.0384 | | | | | 0.0143569 | 991.133 | #DIV/0! | #DIV/0! |
| | | | | | 3.78796E-05 | 1436.55 | 538.35 | -2.66843 |
| | 0.00762615 | 849.1 | 308.633 | -2.75116 | 0.00658921 | 1567.53 | 441.75 | -3.54844 |
| | | | | | 4.52204E-05 | 1059.53 | 2268.6 | 2.14113 |
| | | | | | 1.62347E-11 | 6696.33 | 14488.4 | 2.16364 |
| | 3.59892E-05 | 1248.73 | 2606.4 | 2.08725 | 1.26727E-06 | 1165.08 | 2685.18 | 2.30472 |
| | | | | | 3.73249E-06 | 1733.2 | 4259.38 | 2.45752 |
| | | | | | 1.32523E-10 | 1227.5 | 3252.6 | 2.64978 |
| | 9.44862E-10 | 10519.4 | 22526.8 | 2.14145 | 1.39028E-12 | 8591.3 | 23712.6 | 2.76007 |
| | | | | | 1.40496E-16 | 6483.43 | 18925.9 | 2.91912 |
| | | | | | 3.88958E-09 | 2297.8 | 6770.65 | 2.94658 |
| | | | | | 1.34409E-10 | 3041.73 | 9132.4 | 3.00238 |
| | | | | | 4.93833E-10 | 2981.15 | 7668.18 | 2.57222 |
| | 3.99132E-08 | 1879.35 | 521.875 | -3.60115 | 1.36656E-10 | 4284.55 | 857.45 | -4.99685 |
| #DIV/0! | | | | | | | | |
| | | | | | 2.22389E-14 | 5746.85 | 17440.6 | 3.03481 |
| | | | | | 0.00127819 | 585.6 | 240.9 | -2.43088 |
| | | | | | 0.00775596 | 1717.55 | 456.233 | -3.76463 |
| | | | | | 0.00458084 | 554.833 | 1479.6 | 2.66675 |
| | | | | | 0.0105842 | 4867.25 | 2356.6 | -2.06537 |
| | | | | | 2.78265E-09 | 9953.88 | 26610.9 | 2.67342 |
| | 2.62076E-05 | 14073.6 | 49553.9 | 3.52104 | 9.89073E-08 | 11392.8 | 66969.3 | 5.8782 |
| | | | | | 0.000064858 | #DIV/0! | 1238.6 | #DIV/0! |

| | | | | | | | |
|---------|-------------|---------|---------|------------|-------------|---------|----------|
| | | | | 0.00378302 | 699.15 | 176.15 | -3.96906 |
| | 0.00429223 | 887.95 | 413.75 | -2.1461 | 0.000969371 | 949 | -2.00719 |
| | | | | | 3.33662E-09 | 4362.35 | 859.575 |
| | 2.8985E-06 | 1503.85 | 566.225 | -2.65592 | 5.09491E-10 | 3555.93 | 801.575 |
| | 1.90984E-07 | 1497.6 | 633.267 | -2.36488 | | | |
| | | | | | 2.86132E-06 | 876.45 | 416.6 |
| | 0.000479665 | 1373.03 | 586.2 | -2.34225 | 0.000141898 | 1747.98 | 850.2 |
| | | | | | 8.87646E-05 | 1558.33 | 429.7 |
| | | | | | 3.326E-09 | 5264.73 | 10719.5 |
| | | | | | 6.62684E-12 | 8350.78 | 22874.5 |
| | | | | | 0.0123955 | 1217.97 | 263.1 |
| | | | | | 1.07316E-06 | #DIV/0! | 2791.28 |
| | | | | | 2.46186E-05 | #DIV/0! | 3747.43 |
| | 8.91578E-06 | 2149.95 | 558.425 | -3.85002 | | | |
| | 1.44164E-07 | 5336.1 | 1154.5 | -4.622 | 0.000462404 | 5474.35 | 2341.55 |
| | 5.23832E-09 | 6349.25 | 1431.6 | -4.43507 | | | |
| | | | | | 0.000176767 | 933.667 | #DIV/0! |
| | | | | | 1.43913E-05 | 1579.3 | 3173.1 |
| | | | | | 4.06331E-06 | 2536.9 | 5466.95 |
| | | | | | 3.92042E-07 | 1491.6 | 4515.48 |
| | 0.000317615 | 597.625 | 1454.33 | 2.43351 | | | |
| | | | | | 0.00870825 | 1929.88 | 746.65 |
| | | | | | 1.44693E-09 | 2376.15 | 6730.83 |
| | | | | | 4.92007E-07 | 3770.68 | 7785.75 |
| | | | | | 0.000790563 | 1129 | 272.7 |
| | | | | | 0.000241335 | 1219.13 | 469.025 |
| | | | | | 1.4752E-07 | 3229.07 | 10939.1 |
| | 0.000293647 | 1509.53 | 623.2 | -2.42222 | 3.23794E-07 | 1410.08 | 354.425 |
| | 0.000144911 | 10749 | 4125.58 | -2.60545 | | | |
| | 0.00450232 | 5639.73 | 2754.75 | -2.04727 | | | |
| -2.1064 | | | | | | | |
| | 2.90981E-06 | 6940.15 | 20225.2 | 2.91423 | 2.24323E-10 | 4580.15 | 20984.6 |
| | 0.004071 | 455.5 | 1428.78 | 3.13672 | 3.84901E-08 | #DIV/0! | 997.5 |
| | | | | | 0.00468276 | 2449.08 | 968.175 |
| | 9.35286E-05 | 884.925 | 350.65 | -2.52367 | 0.000840463 | 1393.78 | 554.65 |
| | 2.40662E-10 | 58111.1 | 13557.7 | -4.2862 | | | |
| -2.2943 | 1.52861E-05 | 22740.3 | 7790.5 | -2.91898 | | | |
| | 1.04205E-08 | 74831.4 | 27998.8 | -2.67266 | | | |
| | | | | | 0.00511199 | 928.433 | 279.6 |
| -2.1905 | 2.36089E-08 | 3874.45 | 1432.88 | -2.70397 | 2.39319E-06 | 4208.6 | 1908.13 |
| | | | | | | | |
| | | | | | 7.21651E-07 | 3017.03 | 1398.95 |
| | | | | | 2.74586E-06 | 930.45 | 2313.7 |
| | | | | | 2.39352E-07 | 2128.03 | 4424.55 |
| | | | | | 0.000030731 | 2389.53 | 766.125 |
| | 9.03736E-08 | 2905.28 | 1012.8 | -2.86856 | 2.32637E-07 | 5163 | 1866.08 |
| | 0.000417368 | 2306.65 | 1069.38 | -2.15701 | 2.22903E-12 | 8238.18 | 1230.33 |
| | | | | | 0.0154977 | 1448.93 | 685.2 |
| | 0.00845168 | 1068.4 | 390.4 | -2.73668 | 0.00304321 | 3143.4 | 952.5 |
| | 1.62949E-06 | 5810.15 | 16478.4 | 2.83614 | 1.06052E-08 | 2717.05 | 10324.7 |
| | | | | | 3.8411E-08 | 3149.88 | 10155.3 |
| 6.14158 | 0.000025842 | 1220.83 | 18086.1 | 14.8146 | 2.81126E-06 | 1465.4 | 25680.6 |
| | 0.0135123 | #DIV/0! | 575.125 | #DIV/0! | | | |
| -3.2677 | 9.08361E-05 | 1709.73 | 640.1 | -2.67103 | | | |
| | 0.000333303 | 650.075 | #DIV/0! | #DIV/0! | 0.00678341 | 1133.9 | 534 |
| | | | | | 1.31416E-06 | 80561.4 | 191909 |
| | | | | | 5.10287E-08 | 64055.3 | 187969 |
| | | | | | 0.00291079 | 873.1 | 418.875 |
| | | | | | 3.67058E-07 | 1659.95 | 491.525 |
| | 5.75689E-05 | 1041.95 | 502.8 | -2.0723 | | | |
| | 6.7037E-06 | 623.867 | 251.95 | -2.47615 | | | |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|--|
| | | | | | 1.64186E-05 | 1080.07 | 467.025 | -2.31265 | |
| | 0.000306873 | 1148.98 | 472.275 | -2.43285 | | | | | |
| | | | | | 0.00668709 | #DIV/0! | 2652 | #DIV/0! | |
| | | | | | 2.90497E-09 | 2103.85 | 5207.75 | 2.47534 | |
| | | | | | 5.1386E-10 | 2242.25 | 5246.75 | 2.33995 | |
| | | | | | 4.30973E-13 | 1753.95 | 5535 | 3.15573 | |
| | 1.34263E-05 | 884.333 | 355 | -2.49108 | | | | | |
| | 1.21306E-06 | 671.7 | #DIV/0! | #DIV/0! | | | | | |
| | | | | | 0.00332336 | 2453.23 | 565.233 | -4.3402 | |
| | | | | | 0.00256871 | 1287.95 | 448.425 | -2.87216 | |
| | | | | | 1.36781E-05 | 2549.8 | 1050.23 | -2.42784 | |
| | | | | | 9.20217E-08 | 1449.85 | 657.9 | -2.20375 | |
| -2.1394 | | | | | | | | | |
| -2.1271 | 2.42626E-07 | 848.275 | 381 | -2.22644 | | | | | |
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| #DIV/0! | | | | | | | | | |
| | 0.000134709 | 782.65 | 343.55 | -2.27813 | 1.3251E-06 | 1149.3 | 334.5 | -3.43587 | |
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| | | | | | 2.20068E-12 | 8897.55 | 19419 | 2.18251 | |
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| -4.636 | 0.000013744 | 1199.77 | 317.5 | -3.77879 | | | | | |
| #DIV/0! | | | | | | | | | |
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| | | | | | 4.68472E-11 | 2535.58 | 1022.1 | -2.48075 | |
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| | | | | | 0.000164964 | 1562.38 | 527.9 | -2.9596 | |
| | | | | | 0.00194147 | 948.475 | 425.4 | -2.22961 | |
| | | | | | | | | | |
| | 0.0108209 | 814.4 | 273.075 | -2.98233 | 0.00764164 | 1532.67 | 456.6 | -3.35669 | |
| | | | | | 9.76484E-06 | 5801.88 | 1707.73 | -3.39743 | |
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| | 0.00779275 | 1024.2 | 389.133 | -2.632 | 0.00549235 | 3128.15 | 1521.23 | -2.05634 | |
| | | | | | 2.4752E-06 | 1315.33 | 285.7 | -4.6039 | |
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| | | | | | 0.000088168 | 5620.33 | 2716.75 | -2.06877 | |
| | | | | | | | | | |
| | | | | | 0.000401984 | 2150.63 | 761.3 | -2.82495 | |
| | | | | | 0.000164944 | 2283.68 | 562.575 | -4.05933 | |
| | | | | | 7.58305E-06 | 3270.33 | 754.65 | -4.33357 | |
| | | | | | 0.000165801 | 1932.6 | 733.8 | -2.63369 | |
| | | | | | 5.43619E-05 | 1831.05 | 843.95 | -2.16962 | |
| | | | | | 1.66314E-11 | 5004.85 | 23861.2 | 4.76761 | |
| | | | | | 9.91437E-05 | 1405.15 | 545.95 | -2.57377 | |
| | | | | | 3.32681E-15 | 3064.8 | 16259.9 | 5.30538 | |
| | | | | | 2.01988E-07 | 2162.38 | 4337.6 | 2.00594 | |
| | | | | | | | | | |
| | 1.97965E-08 | 2605.9 | 771.1 | -3.37946 | | | | | |
| -2.0441 | 2.48974E-05 | 5490.33 | 2380.7 | -2.30618 | 4.62346E-07 | 859 | 1863.1 | 2.16892 | |
| | | | | | 0.0063033 | 2033.3 | #DIV/0! | #DIV/0! | |
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| 4.2764 | 7.42341E-21 | 2189.05 | 21969.9 | 10.0363 | 1.67081E-19 | 6501.48 | 70632.2 | 10.864 | |
| 5.36536 | 3.70549E-17 | 8015.4 | 63202.7 | 7.88516 | 0.00031276 | #DIV/0! | 1395.4 | #DIV/0! | |
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| -3.6977 | 1.19177E-07 | 18438.4 | 4696 | -3.92641 | | | | | |
| | 0.00143613 | 3813.6 | 1505.35 | -2.53336 | 2.198E-08 | 264643 | 72426.8 | -3.65394 | |
| | | | | | 1.86665E-08 | 12933 | 1884.75 | -6.8619 | |
| | | | | | 0.000236854 | 1315 | 576.9 | -2.27942 | |
| | | | | | 0.0072015 | 1305.7 | 361.5 | -3.61189 | |
| | | | | | 7.68218E-08 | 4488.6 | 9557.05 | 2.12918 | |
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| | | | | | 0.000083312 | 1370.17 | 497.8 | -2.75244 | |
| | 2.19264E-10 | 9830 | 33730 | 3.43133 | 5.26201E-11 | 7241.08 | 23756.9 | 3.28085 | |
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| 5.2658 | 1.46069E-06 | 1771.15 | 6835.63 | 3.85943 | | | | | |
| 4.12058 | 7.71284E-06 | 1055.45 | 4600.45 | 4.35876 | | | | | |
| | 2.10313E-10 | 2419.78 | 8699.23 | 3.59506 | 4.05683E-06 | 3129.47 | 6303.3 | 2.01418 | |
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| | | | | | 0.000223807 | #DIV/0! | 1954.48 | #DIV/0! | |
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| | | | | | 0.000487193 | 2331.98 | 607.567 | -3.83822 | |
| | | | | | 0.0173545 | 1639.65 | 496.9 | -3.29976 | |
| | | | | | 0.000131832 | 1431.48 | 378.633 | -3.78064 | |
| | | | | | 2.69556E-09 | 3422.28 | 6939.28 | 2.02768 | |
| | 1.70489E-05 | 1774.3 | 3576.75 | 2.01587 | 5.49333E-11 | 1396.95 | 4754.05 | 3.40316 | |
| | 7.55653E-11 | 3050.03 | 8088.4 | 2.65191 | 1.32798E-17 | 1874.85 | 10414.2 | 5.5547 | |
| | 6.60098E-06 | 4124.38 | 9030.03 | 2.18943 | 6.83823E-15 | 1698.85 | 11518.8 | 6.78034 | |
| | 0.0122196 | 639.375 | 229.2 | -2.78959 | | | | | |
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| -2.2403 | 1.92109E-06 | 1281.93 | 2771.75 | 2.16218 | | | | | |
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| | 0.000012627 | 727.467 | 273.4 | -2.66081 | 1.52007E-06 | 1525.83 | 425.3 | -3.58764 | |
| | 5.68477E-05 | 910.875 | 427.125 | -2.13257 | 2.98065E-08 | 1863.2 | 624.5 | -2.98351 | |
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| | 0.00750322 | 692.925 | 322.25 | -2.15027 | | | | | |
| | 1.15606E-10 | 9487.95 | 30944.8 | 3.26148 | 5.31906E-17 | 3595.6 | 22536 | 6.26765 | |
| | 3.1861E-09 | 7887.65 | 28402.2 | 3.60084 | 3.63744E-16 | 2960.6 | 25122.1 | 8.48547 | |
| | 5.8412E-09 | 3911.33 | 8195.7 | 2.09538 | 3.5904E-13 | 2854.9 | 8235.98 | 2.88486 | |
| | | | | | 3.61987E-10 | 5346.53 | 12866 | 2.40642 | |
| | | | | | 5.03365E-05 | 2138.6 | 723.275 | -2.95683 | |
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| | | | | | 0.000513458 | 9028.15 | 3693.73 | -2.44419 | |
| | 5.29782E-05 | 1096.23 | 460.667 | -2.37967 | | | | | |
| | | | | | 9.91395E-11 | 1929.1 | 6806.08 | 3.52811 | |

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| | 1.61407E-09 | 1173.88 | 450.5 | -2.60572 | | | | |
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| | 0.0030331 | 567.575 | 217.9 | -2.60475 | | | | |
| | 0.000149085 | 1864.98 | 418.025 | -4.4614 | 0.000215436 | 3968.15 | 1040.7 | -3.81296 |
| | 0.000042017 | 908.533 | 275.967 | -3.29219 | 3.27334E-06 | 2421.3 | 496.125 | -4.88042 |
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| 2.3257 | | | | | | | | |
| | 3.47866E-06 | 798.15 | 213.567 | -3.73724 | 0.000160474 | 4229.1 | 626.667 | -6.74856 |
| 2.49562 | 0.00044046 | 401.433 | 1186.48 | 2.9556 | 6.85063E-06 | 1398.13 | 513.533 | -2.72256 |
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| 2.54465 | 5.54661E-14 | 9073.73 | 38987.1 | 4.2967 | 1.06102E-06 | 1145.38 | 3840 | 3.35261 |
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| | | | | | 2.58079E-06 | 5201.98 | 1250.1 | -4.16125 |
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| 3.81769 | | | | | 8.61547E-15 | 3456.95 | 63301.3 | 18.3113 |
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| -3.1161 | | | | | | | |
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| 1.05258E-05 | 1394.45 | 346 | -4.0302 | 5.45353E-05 | 4678.93 | 1391.1 | -3.36348 |
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| | | | | 9.15738E-12 | 10428.9 | 21828.3 | 2.09306 |
| | | | | 0.00289343 | 1590.55 | 386.667 | -4.11349 |
| | | | | 0.00046379 | 1198.7 | 500.4 | -2.39548 |
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| 0.00152254 | 915.867 | #DIV/0! | #DIV/0! | 0.000016404 | 4465.55 | 1028.88 | -4.34023 |
| 0.000501064 | 1720.63 | 501.125 | -3.43352 | | | | |
| 0.000141689 | 2589.25 | 1069 | -2.42212 | | | | |
| | | | | 6.17377E-06 | 1432.17 | 404.6 | -3.53971 |
| 0.000276363 | 4026.8 | 1853.4 | -2.17266 | | | | |
| | | | | 0.0177376 | 809.6 | 328.7 | -2.46304 |
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| | | | | 0.00240941 | #DIV/0! | 913.975 | #DIV/0! |
| | | | | 0.000488434 | 1654.88 | 784.125 | -2.11047 |
| | | | | 1.66904E-06 | 2293 | 738.867 | -3.1034 |
| | | | | 1.27718E-05 | 1146.9 | 484 | -2.36963 |
| | | | | 3.63929E-10 | 1857.9 | 3966.4 | 2.13488 |
| | | | | 0.00015288 | #DIV/0! | 2342.03 | #DIV/0! |
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| | | | | 0.000157578 | 2116.1 | 554 | -3.81968 |

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| -2.0754 | 7.53192E-06 | 1712.2 | 466.875 | -3.66736 | 0.00011509 | 3378.78 | 1219.35 | -2.77096 |
| | | | | | 0.0128943 | 1430.48 | 564.15 | -2.53563 |
| | | | | | 0.0129512 | 1476.7 | 286.4 | -5.15608 |
| | | | | | 4.10641E-07 | 1788.1 | 529.45 | -3.37728 |
| | 2.77952E-05 | 2755.05 | 5810.55 | 2.10905 | 9.83027E-07 | 2687.08 | 6703.08 | 2.49456 |
| | 1.20343E-06 | 1180.23 | 3603.93 | 3.05357 | 2.19096E-07 | #DIV/0! | 4089.48 | #DIV/0! |
| 2.32996 | 1.40268E-05 | 1814.43 | 435.675 | -4.16463 | 0.000063398 | 3900.58 | 1069.7 | -3.64642 |
| | | | | | 9.08363E-12 | #DIV/0! | 1900.45 | #DIV/0! |
| | 0.000001079 | 11731.6 | 3929.55 | -2.98549 | 2.63045E-07 | 7175.58 | 2334 | -3.07437 |
| -2.2321 | | | | | 0.000095707 | 944.033 | #DIV/0! | #DIV/0! |
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| 3.8964 | 0.000830458 | 665.4 | 3819.78 | 5.74057 | 1.66658E-05 | 1338.5 | 6905.95 | 5.15947 |
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| | 0.0035229 | 6720.38 | 2056.15 | -3.26843 | 6.72303E-05 | 11221.3 | 2267.33 | -4.94915 |
| | 0.00723027 | 2478.95 | 907.425 | -2.73185 | 0.00109042 | 3286.23 | 1088.33 | -3.01953 |
| | | | | | 5.84085E-05 | 1102.6 | 443.15 | -2.4881 |
| | | | | | 0.000387921 | 910.2 | 422.025 | -2.15674 |
| | 0.000286652 | 1416.68 | 573 | -2.47238 | 8.96494E-06 | 2862.5 | 837.225 | -3.41903 |
| | | | | | 7.32912E-05 | 3959.53 | 8993.43 | 2.27133 |
| | | | | | 0.00551334 | 2382.88 | 694.2 | -3.43255 |
| -2.4706 | 1.22079E-06 | 4369.18 | 1371.67 | -3.1853 | 6.06086E-05 | 3728.48 | 8365 | 2.24354 |
| | 1.51251E-05 | 3847.9 | 9490.35 | 2.46637 | 0.000522885 | 1493.27 | 688.567 | -2.16866 |
| | | | | | 8.69036E-15 | 10275.8 | 25409.5 | 2.47275 |
| | 1.21093E-06 | 1673.53 | 410.925 | -4.07258 | 9.59385E-06 | 2384.45 | 803.567 | -2.96733 |
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| -3.5673 | | | | | | | | |
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| | | | | | 0.000513551 | 1455.55 | 281.4 | -5.17253 |
| 3.52218 | 2.4907E-13 | 3079 | 21602.9 | 7.01621 | 9.35879E-17 | 1948.9 | 21178.7 | 10.867 |
| | | | | | 4.23443E-08 | 2051.85 | 877.175 | -2.33916 |
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| | 0.00644719 | 1172.58 | #DIV/0! | #DIV/0! | 3.18184E-06 | 2550.75 | #DIV/0! | #DIV/0! |
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| | 0.000203759 | 2372.93 | 4794.55 | 2.02052 | | | | |
| | 1.34034E-05 | 3413.63 | 1526.6 | -2.2361 | 1.58317E-05 | 5132.25 | 2442.38 | -2.10134 |
| -2.058 | | | | | | | | |
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| | | | | | 4.83724E-13 | 2453.25 | 8246.83 | 3.36159 |
| -3.4063 | 2.14751E-08 | 2738.23 | 563.933 | -4.85558 | 6.63103E-10 | 2655.1 | 442.4 | -6.00158 |
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| | 3.03076E-08 | 682.025 | #DIV/0! | #DIV/0! | 8.19631E-06 | 956.025 | #DIV/0! | #DIV/0! |
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| | 0.00124413 | 620.65 | 192.133 | -3.23031 | 0.000931113 | 1829.93 | 620.2 | -2.95055 |
| | | | | | 0.000444024 | #DIV/0! | 3038.37 | #DIV/0! |
| | | | | | 0.00738065 | 1079.45 | 312.9 | -3.44982 |
| | | | | | 0.0112025 | 2061.3 | 743.45 | -2.77261 |
| | 8.68318E-06 | 1982.65 | 799.3 | -2.48048 | 9.71195E-10 | 5784.05 | 1295.28 | -4.4655 |
| | | | | | 0.000104224 | 3743.13 | 1238.97 | -3.02117 |
| | | | | | 2.77216E-07 | 2904.73 | 1212.6 | -2.39545 |
| | | | | | 2.32603E-12 | 13928.3 | 33696.7 | 2.41931 |
| | | | | | 1.38578E-05 | 1957.05 | 696.5 | -2.80983 |
| | 3.25571E-07 | 978.125 | 367.6 | -2.66084 | 0.000379881 | 1423.68 | 616.6 | -2.30891 |
| | 4.26175E-05 | 1182.95 | 443.1 | -2.66971 | | | | |
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| | 0.000336347 | 1214.28 | 590.8 | -2.05531 | | | | |
| | 3.01915E-06 | 7671.93 | 16431.2 | 2.14173 | | | | |
| | | | | | 4.89696E-05 | 2746.25 | 781.067 | -3.51603 |
| | | | | | 0.00918021 | 908.967 | 355.6 | -2.55615 |
| | 0.00120648 | 16479.1 | 38674.1 | 2.34686 | 2.84409E-08 | 6400.88 | 33396.1 | 5.21742 |
| 2.74515 | 3.88675E-07 | 3464.95 | 14210.4 | 4.10118 | 2.48987E-11 | 2595.45 | 14581.2 | 5.61798 |
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| 3.05239 | | | | | | | | |
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| | 1.06335E-07 | 2338.38 | 865.175 | -2.70278 | 8.61687E-06 | 3261.38 | 1585.83 | -2.05658 |
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| | 2.9108E-07 | 1391.2 | 632.1 | -2.20092 | | | | |
| | 1.2854E-07 | 4649.35 | 2191.15 | -2.12188 | | | | |
| | | | | | 1.00246E-14 | 2763.55 | 14573.2 | 5.27337 |
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| -2.2493 | | | | | | | | |
| -2.2156 | | | | | | | | |
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| -2.0721 | 0.000479137 | 1467.9 | 630.825 | -2.32695 | | | | |
| | | | | | 2.05831E-08 | 7075.33 | 14598.6 | 2.06331 |
| | 6.4706E-06 | 1346.58 | 547.9 | -2.4577 | | | | |
| | 9.88044E-06 | 868.225 | 283.45 | -3.06306 | | | | |
| | 1.95646E-05 | 2003.95 | 788.2 | -2.54244 | | | | |
| | 0.000010535 | 1363.15 | 579.95 | -2.35046 | | | | |
| | 0.00255667 | 2394.7 | 941.8 | -2.54268 | | | | |
| | 0.000751297 | 3481.73 | 1469.2 | -2.36982 | | | | |
| | | | | | 2.22116E-11 | 7938.85 | 21342.2 | 2.68832 |
| | | | | | 0.001444481 | 12397.4 | 4511.13 | -2.74818 |
| | | | | | 0.000984277 | 1481.15 | 659.425 | -2.24612 |
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| | | | | | 0.0137524 | 2715.75 | 1330.6 | -2.041 |
| -2.4705 | 4.54962E-12 | 1707.4 | 508.633 | -3.35684 | 2.55359E-10 | 1759.7 | 649.5 | -2.70931 |
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| | | | | | 1.11298E-08 | 1342.15 | 3004.35 | 2.23846 |
| | | | | | 4.56912E-05 | 2135.1 | 982.325 | -2.17352 |
| -2.558 | 0.000722852 | 1034.7 | 415.55 | -2.48995 | | | | |
| 2.4327 | 6.88408E-09 | 1504.9 | 4635.15 | 3.08004 | 1.17642E-07 | #DIV/0! | 4372.9 | #DIV/0! |
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| | 4.99406E-09 | 5588.58 | 11622.6 | 2.07971 | 1.33315E-17 | 2848.53 | 11311.9 | 3.97113 |
| | 5.4469E-10 | 6609.9 | 14328.5 | 2.16773 | 1.07642E-18 | 3298.7 | 14479.3 | 4.38938 |
| | 0.000102014 | 1209.03 | 503.2 | -2.40269 | | | | |
| | 0.000314354 | 950.575 | 261.1 | -3.64065 | 2.1493E-07 | 2536.78 | 533.375 | -4.75608 |
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| | 3.15468E-06 | 829.65 | 311.55 | -2.66298 | | | | |
| | 0.000469084 | 779.2 | 368.333 | -2.11548 | | | | |
| | | | | | 0.000173998 | 4030.2 | 1007.28 | -4.00109 |
| | | | | | 6.35231E-09 | 12204.4 | 26441 | 2.16651 |
| | | | | | 5.19732E-08 | 8220.18 | 21446.7 | 2.60903 |
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| -2.3758 | | | | | | | | |
| | 3.38863E-07 | 1690.3 | 663.9 | -2.54602 | 4.79222E-08 | 2143.28 | 852.025 | -2.51551 |
| | | | | | 0.000389455 | 1266.1 | 571.4 | -2.21579 |
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| | 0.00243818 | 684.333 | 173.3 | -3.94884 | 0.000214722 | 1310.98 | 410.367 | -3.19464 |
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| 2.85939 | 5.97354E-06 | 3409.88 | 9236.58 | 2.70877 | | | | |
| 2.74757 | 0.000126945 | 1603.95 | 4525.63 | 2.82155 | | | | |
| 2.57149 | | | | | | | | |
| 2.7375 | | | | | | | | |
| 3.01748 | | | | | | | | |
| | 0.00481286 | 579.325 | 218.45 | -2.65198 | 7.56605E-05 | 1435.3 | 380 | -3.77711 |
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| | | | | | 0.00232915 | 1547.28 | 762.8 | -2.02842 |
| | 9.77885E-05 | 34349.7 | 13790.9 | -2.49074 | | | | |
| | | | | | 1.11295E-06 | 7548.1 | 16813.5 | 2.22751 |
| | | | | | 0.0105225 | 2283.1 | 1024.9 | -2.22763 |
| | | | | | 0.000449387 | 945.475 | 334.1 | -2.82992 |
| | | | | | 0.000548948 | 1259.07 | 484.775 | -2.59722 |
| 11.4209 | 1.03438E-14 | 5309.65 | 107742 | 20.2917 | 1.04266E-14 | 12693.6 | 153878 | 12.1225 |
| 11.6106 | 2.23864E-14 | 2820.83 | 79801 | 28.2899 | 2.34978E-14 | 7213.7 | 100345 | 13.9104 |
| 12.7267 | 9.68319E-08 | #DIV/0! | 3608.7 | #DIV/0! | 2.78025E-08 | #DIV/0! | 4066.7 | #DIV/0! |
| #DIV/0! | 7.38506E-10 | #DIV/0! | 11387.1 | #DIV/0! | 5.8191E-10 | 1584.3 | 21854.6 | 13.7945 |
| | | | | | 0.000910663 | #DIV/0! | 2129.28 | #DIV/0! |
| | | | | | 0.0221376 | #DIV/0! | 2658.27 | #DIV/0! |
| | 0.000216452 | 633.675 | 287.867 | -2.20128 | 7.05195E-06 | 999.45 | 378.5 | -2.64055 |
| | | | | | 0.000138071 | 2851.85 | 733.7 | -3.88694 |
| | | | | | 0.000108031 | 503.3 | #DIV/0! | #DIV/0! |
| | | | | | 8.56672E-10 | 2794.93 | 719.067 | -3.88688 |
| | | | | | 0.0161436 | 754.075 | 246.75 | -3.05603 |
| | 3.75937E-06 | 4341.28 | 1842 | -2.35683 | 1.38303E-10 | 3366.13 | 837.35 | -4.01997 |
| -2.2991 | 2.4435E-07 | 6990.13 | 2442.55 | -2.86181 | 1.88981E-08 | 4629.23 | 1473.98 | -3.14064 |
| -2.2189 | 1.57905E-05 | 3015.1 | 1228.88 | -2.45354 | 1.36521E-06 | 2019.55 | 706.6 | -2.85812 |
| -2.4915 | | | | | | | | |
| | 0.00768254 | 651.175 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 4.00766E-06 | 882.533 | 196.6 | -4.48898 |
| | | | | | 7.46327E-05 | 1500.3 | 631.6 | -2.3754 |
| | | | | | 2.62304E-08 | 4474.35 | 10729.9 | 2.39808 |
| | | | | | 3.71673E-06 | 3299.05 | 782.375 | -4.21671 |
| | | | | | 0.000136747 | 3138.9 | 6326.03 | 2.01536 |
| | | | | | 0.00309779 | 2534.8 | 5969.15 | 2.35488 |
| -2.801 | | | | | | | | |
| -2.2292 | | | | | | | | |
| | | | | | 0.00215308 | #DIV/0! | 625.05 | #DIV/0! |
| | 7.88351E-07 | 3202 | 1582.55 | -2.02332 | | | | |
| | 0.000723096 | 1198.4 | 295.975 | -4.04899 | 0.00373983 | 3114.55 | 1015.55 | -3.06686 |
| | | | | | 0.000643481 | 1503.75 | 286.1 | -5.25603 |
| -2.5896 | | | | | | | | |
| | 3.27019E-05 | 511.567 | #DIV/0! | #DIV/0! | 8.66194E-05 | 1518.43 | #DIV/0! | #DIV/0! |
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| | | | | | 0.000736943 | #DIV/0! | 944.233 | #DIV/0! |
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| | 2.12229E-08 | 3654.03 | 1714.55 | -2.13119 | | | | |
| | 1.05703E-07 | 1573.78 | 3373.65 | 2.14367 | 2.29349E-10 | 1030.43 | 2612.75 | 2.5356 |
| | 7.61859E-09 | 1821.15 | 4210.93 | 2.31223 | 5.48531E-09 | #DIV/0! | 2842.2 | #DIV/0! |
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| | | | | | 0.00035089 | 6860.1 | 1003.08 | -6.83907 |
| | 0.000956797 | 1501.68 | 392.4 | -3.8269 | 0.00046104 | 1661.43 | 316 | -5.25767 |
| | | | | | 1.15954E-10 | 16074.9 | 51475.7 | 3.20224 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 2.43492E-06 | 16932.6 | 34727 | 2.0509 | 2.71615E-13 | 7425.18 | 28664 | 3.86037 |
| | 0.00114945 | 904.667 | 403.3 | -2.24316 | 0.000403632 | 2012.4 | 373.8 | -5.38363 |
| | | | | | 0.0195601 | 1497 | 559.233 | -2.67688 |
| | | | | | 0.0012141 | 1135.08 | 511.367 | -2.21969 |
| #DIV/0! | 0.000229094 | 1214.28 | #DIV/0! | #DIV/0! | 0.000335009 | 2474.48 | 813.133 | -3.04314 |
| | 2.18049E-05 | 1682.05 | 4422.03 | 2.62895 | 5.25329E-06 | #DIV/0! | 2206.75 | #DIV/0! |
| | | | | | 1.3525E-06 | 2630.35 | 5670.83 | 2.15592 |
| | | | | | 1.41201E-07 | 2243.45 | 6355.53 | 2.83292 |
| -2.468 | | | | | | | | |
| 6.06558 | 1.94871E-09 | 1873.65 | 34374.6 | 18.3463 | 2.50305E-11 | 4683.1 | 36066.2 | 7.70135 |
| 5.45712 | 2.59779E-14 | 5245.98 | 78846.9 | 15.03 | 2.52897E-17 | 4956.78 | 94585.1 | 19.082 |
| | | | | | 8.7347E-06 | #DIV/0! | 3028.13 | #DIV/0! |
| | 2.48864E-09 | 1319.48 | 364.8 | -3.61698 | 2.80214E-09 | 1725 | 529.15 | -3.25995 |
| #DIV/0! | 0.00289353 | #DIV/0! | 2591.73 | #DIV/0! | | | | |
| | 0.00162105 | 736 | #DIV/0! | #DIV/0! | | | | |
| 2.02968 | 4.89974E-15 | 4767.08 | 15216.7 | 3.19205 | 7.70753E-14 | 4021.28 | 11255.2 | 2.7989 |
| | 3.64532E-05 | 959.575 | 2166.9 | 2.25819 | | | | |
| | | | | | 0.00713613 | 1117.75 | 467.567 | -2.39057 |
| | | | | | 7.68563E-09 | 1876.8 | 599.1 | -3.1327 |
| | | | | | 0.00643179 | 954.15 | 402.875 | -2.36835 |
| | 1.66639E-07 | 1313.7 | 447.1 | -2.93827 | 4.70566E-08 | 2747.07 | 905.4 | -3.03409 |
| | | | | | 0.00152595 | 1398.95 | #DIV/0! | #DIV/0! |
| #DIV/0! | 5.43737E-06 | #DIV/0! | 2216.13 | #DIV/0! | 4.20105E-06 | #DIV/0! | 3256.6 | #DIV/0! |
| 4.18861 | 1.95283E-06 | 782.467 | 2072.55 | 2.64874 | | | | |
| | | | | | 1.5255E-08 | 3232.75 | 612.6 | -5.2771 |
| | 6.87185E-10 | 8266.8 | 19980.6 | 2.41697 | 5.03566E-13 | 4791.93 | 15700.1 | 3.27636 |
| | 7.52239E-09 | 4894.7 | 12494.9 | 2.55275 | 2.60607E-12 | 3098.7 | 11072.1 | 3.57313 |
| -2.0181 | 1.10649E-05 | 2299.65 | 980.725 | -2.34485 | 2.29641E-06 | 2571.9 | 1045.58 | -2.45979 |
| | | | | | 0.0155258 | #DIV/0! | 1281.53 | #DIV/0! |
| | 0.000149661 | 911 | 356.733 | -2.55373 | 2.52047E-05 | 1613.3 | 580.5 | -2.77916 |
| | | | | | 4.74015E-05 | 8131.08 | 4039.13 | -2.01308 |
| | 0.000093447 | 2364.93 | 5067.1 | 2.1426 | 7.1663E-08 | 1852.87 | 5689.85 | 3.07084 |
| | | | | | 4.21741E-07 | 1068.2 | 3858 | 3.61168 |
| | | | | | 0.0129884 | 1145.75 | #DIV/0! | #DIV/0! |
| 10.6374 | 6.10883E-05 | 569.75 | 1710.55 | 3.00228 | 5.35218E-05 | #DIV/0! | 2112.98 | #DIV/0! |
| 8.64094 | 6.61377E-08 | #DIV/0! | 2564.63 | #DIV/0! | 0.000169192 | #DIV/0! | 2583.7 | #DIV/0! |
| #DIV/0! | | | | | | | | |
| #DIV/0! | 3.20036E-05 | 4587.13 | 2203.8 | -2.08146 | | | | |
| | | | | | 0.00237393 | 1582.1 | 495.625 | -3.19213 |
| | | | | | 4.5674E-11 | 21851.5 | 110218 | 5.04395 |
| | | | | | 2.8861E-08 | 38432.4 | 98455.2 | 2.56178 |
| | 0.0128696 | 1558.3 | 705.75 | -2.20801 | | | | |
| | 7.39761E-07 | 1997.05 | 835.167 | -2.3912 | 4.15697E-09 | 3621.45 | 1102.9 | -3.28357 |
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| | 2.70278E-05 | 2098.18 | 637.375 | -3.2919 | | | | |
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| | | | | | 8.23015E-07 | 1800.78 | 630.1 | -2.85792 |
| | 0.00026777 | 1247.75 | 549 | -2.27277 | | | | |
| | 1.39082E-09 | 1243.93 | 449.15 | -2.76951 | 1.67626E-08 | 1535.57 | 671.8 | -2.28575 |
| -2.2765 | 4.79806E-05 | 1045.15 | 351.733 | -2.97143 | | | | |
| | | | | | 3.19818E-08 | 1309.83 | 3048.25 | 2.3272 |
| | | | | | 7.28121E-07 | 2291.43 | #DIV/0! | #DIV/0! |
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| | 6.72184E-05 | 1002.98 | 376.133 | -2.66654 | | | | |
| #DIV/0! | 1.29461E-08 | 503.5 | 1965.83 | 3.90432 | 2.96486E-10 | #DIV/0! | 3085.4 | #DIV/0! |
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| | 2.68665E-06 | 1686.83 | 381.9 | -4.41693 | 1.93583E-05 | 2594.58 | 542.933 | -4.77881 |
| | | | | | 0.0158268 | #DIV/0! | 1136.57 | #DIV/0! |
| | 0.0143471 | 812.9 | 210.75 | -3.85718 | | | | |
| | | | | | 3.43816E-05 | 1909.95 | 599.325 | -3.18684 |

| | | | | | | | | |
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| | | | | | 0.00139493 | 1049.03 | 360.1 | -2.91317 |
| #DIV/0! | | | | | 5.75791E-05 | 2165.1 | 268.55 | -8.06219 |
| -6.1694 | 8.53988E-14 | 14664.2 | 849.025 | -17.2718 | 7.37873E-10 | 2839.78 | 404.8 | -7.01525 |
| -6.2621 | 6.05027E-07 | 3297.58 | #DIV/0! | #DIV/0! | 2.16422E-07 | 2770.87 | #DIV/0! | #DIV/0! |
| -2.009 | 1.40204E-08 | 2465.08 | 855.6 | -2.88111 | 0.000582844 | 1498.25 | 570.075 | -2.62816 |
| | 3.52962E-05 | 2339.6 | #DIV/0! | #DIV/0! | 0.000594665 | 5098.23 | #DIV/0! | #DIV/0! |
| | 7.69877E-07 | 5174.48 | 1281.45 | -4.03798 | 9.0863E-08 | 6524.73 | 1682.4 | -3.87822 |
| #DIV/0! | 9.79156E-05 | 2913.5 | #DIV/0! | #DIV/0! | 7.1567E-08 | 3040.85 | 9504.13 | 3.12548 |
| | | | | | 1.80903E-07 | 3583.33 | 11869.9 | 3.31254 |
| -3.8259 | 7.51221E-13 | 69551.8 | 16946.3 | -4.10425 | 2.90969E-10 | 45945.4 | 15945.6 | -2.88139 |
| -2.9371 | 4.14687E-08 | 49936.2 | 16966.7 | -2.94318 | | | | |
| | 2.54867E-06 | 2336.38 | 1095.15 | -2.13338 | | | | |
| | 4.99874E-06 | 1022.98 | 474.725 | -2.15488 | 8.43344E-12 | 1777.05 | 430.533 | -4.12755 |
| | | | | | 5.67545E-05 | 3040.93 | 928.375 | -3.27554 |
| | 0.000106401 | 2181.3 | 865.4 | -2.52057 | | | | |
| | 0.000044105 | 1709.88 | 626.067 | -2.73114 | | | | |
| | 0.00582332 | #DIV/0! | 752.15 | #DIV/0! | | | | |
| | 0.000379255 | 12514.9 | 25420.5 | 2.03122 | | | | |
| | 8.45665E-06 | 9067.5 | 21906.4 | 2.41593 | | | | |
| | 0.00465034 | 2386.9 | 5548.38 | 2.32451 | | | | |
| | 4.61131E-08 | 4093.45 | 1275.28 | -3.20986 | 1.43396E-06 | 4679.05 | 1847.88 | -2.53212 |
| | | | | | 0.0158733 | 957.9 | 323.5 | -2.96105 |
| | 0.000417889 | 920.9 | 388.9 | -2.36796 | | | | |
| | | | | | 0.0126961 | 1895.75 | 664.575 | -2.85257 |
| -2.3175 | 1.61817E-07 | 6535.23 | 2128.95 | -3.06969 | 2.02447E-08 | 7377.48 | 2306.65 | -3.19835 |
| | | | | | 3.86572E-06 | 2194.93 | 651.267 | -3.37025 |
| | 0.000666021 | 1769 | 881.933 | -2.00582 | | | | |
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| | 1.15209E-06 | 1487.38 | 674.1 | -2.20646 | | | | |
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| -3.3785 | 4.02679E-10 | 1714 | 431.5 | -3.97219 | 2.57058E-06 | 1693.75 | 720.7 | -2.35015 |
| | 0.000052572 | 806.05 | 297.875 | -2.706 | 6.22299E-05 | 910.4 | 398.1 | -2.28686 |
| | | | | | 0.0158907 | #DIV/0! | 573.6 | #DIV/0! |
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| -2.1639 | 2.19213E-06 | 2041.48 | 482.575 | -4.23038 | 2.57676E-07 | 2572.3 | 534.9 | -4.80894 |
| -3.2242 | 6.33922E-09 | 1959.58 | 351.95 | -5.56777 | 2.70237E-09 | 3572.03 | 636.675 | -5.61044 |
| | | | | | 3.38523E-10 | 1609.25 | 6545.93 | 4.06769 |
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| | | | | | 1.06972E-05 | 2110.3 | 4368.8 | 2.07023 |
| | 0.000233139 | 3763.78 | 7868.85 | 2.09068 | 2.68256E-06 | 2476.3 | 5163.83 | 2.0853 |
| | | | | | 0.00297169 | 2493.18 | 5728.08 | 2.2975 |
| | | | | | 1.38301E-11 | 2552.9 | 8874.18 | 3.47612 |
| -2.1233 | 5.67312E-05 | 10304.9 | 21966.4 | 2.13165 | 6.18661E-11 | 4118.23 | 15701 | 3.81256 |
| | 3.1772E-08 | 3320.53 | 1292.28 | -2.56952 | | | | |
| | 0.00261356 | 554.575 | 224.55 | -2.46972 | | | | |
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| #DIV/0! | 0.0011004 | 336.05 | 1144.03 | 3.40433 | | | | |
| 4.74069 | 3.4287E-10 | 1012.3 | 3517.93 | 3.47518 | 1.47767E-12 | 1121.85 | 7986.38 | 7.11893 |
| 10.0188 | 2.70246E-15 | 702.633 | 8675.2 | 12.3467 | 2.43602E-16 | 1126.5 | 16937.3 | 15.0353 |
| 10.9281 | 2.61985E-16 | 887.1 | 13588.8 | 15.3182 | 1.45046E-16 | 1819.25 | 28045 | 15.4157 |
| -2.098 | 1.13318E-06 | 4997.95 | 1866.1 | -2.67829 | | | | |
| -3.1348 | 7.02178E-05 | 1397.3 | 362.7 | -3.8525 | | | | |
| | | | | | 5.41934E-05 | 1372.57 | 589.267 | -2.32928 |
| | 2.3456E-08 | 12374.1 | 26253.6 | 2.12167 | 5.47483E-15 | 6625.4 | 23460 | 3.54092 |
| | 8.38916E-06 | 4900.98 | 10454.9 | 2.13322 | 4.04272E-10 | 2524.5 | 8773.28 | 3.47525 |
| | 1.51303E-09 | 8859.53 | 22074.4 | 2.4916 | 7.48735E-16 | 4127.23 | 19236.2 | 4.6608 |
| | 8.71114E-09 | 10870.6 | 23287.3 | 2.14223 | 1.09538E-15 | 5611.5 | 21638.3 | 3.85606 |

| | | | | | | | | |
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| | 9.61032E-05 | 1141.05 | 390.025 | -2.92558 | | | | |
| | 5.24336E-06 | 821.775 | 307.25 | -2.67461 | 1.16332E-07 | 1857.38 | 521.567 | -3.56115 |
| | | | | | 1.85539E-05 | 853.675 | #DIV/0! | #DIV/0! |
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| 4.13881 | 2.42035E-11 | 991.4 | 3886.8 | 3.92052 | 2.16368E-07 | 1768.13 | 4109.6 | 2.32427 |
| 2.54705 | 1.73904E-06 | 1788.98 | 4046.4 | 2.26185 | 5.14448E-09 | 2211.83 | 6995.2 | 3.16264 |
| -2.1045 | | | | | | | | |
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| -2.1689 | 8.98779E-07 | 11501.7 | 3906.78 | -2.94405 | | | | |
| | 0.000121791 | 2701.18 | 1135.33 | -2.37921 | | | | |
| | | | | | 6.24184E-07 | 7694.9 | 16016.3 | 2.08141 |
| | | | | | 4.41466E-07 | 1821.43 | 4305.08 | 2.36358 |
| | | | | | 0.00695509 | 952 | 317.2 | -3.00126 |
| | 0.000687962 | 10666 | 22631.9 | 2.12186 | 3.37127E-05 | 3670.13 | 10354.4 | 2.82126 |
| | 6.03486E-05 | 30358.9 | 66519.5 | 2.19111 | 3.02561E-09 | 17999.2 | 55768.6 | 3.0984 |
| | 7.40757E-16 | 3177.45 | 13668.6 | 4.30175 | 4.7954E-20 | 1908.08 | 13196 | 6.91584 |
| -2.1596 | 1.99464E-07 | 2153.43 | 1071.93 | -2.00893 | 2.01038E-09 | 2800.03 | 1162.8 | -2.40801 |
| | | | | | 1.10008E-10 | 4199.05 | 15283.1 | 3.63966 |
| | | | | | 0.000109981 | 1208.2 | 477.475 | -2.53039 |
| | | | | | 1.02371E-05 | 1181.23 | 503.85 | -2.3444 |
| | 7.13932E-09 | 830.175 | 258.4 | -3.21275 | | | | |
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| | 1.28587E-08 | 1625.9 | 602.033 | -2.70068 | 1.46388E-06 | 1824.2 | 800 | -2.28025 |
| | 0.000168653 | 2999.75 | 1362.8 | -2.20117 | 0.000435008 | 3742.55 | 1828.68 | -2.04659 |
| | 0.00148186 | 745.15 | 1870.7 | 2.5105 | 0.000021232 | 779.5 | 2711.7 | 3.47877 |
| | 0.00784459 | 806.4 | 3028.15 | 3.75515 | 5.10343E-07 | 860.7 | 4830.35 | 5.61212 |
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| | 2.6736E-07 | 10235.1 | 3969.08 | -2.57871 | | | | |
| | 0.0043986 | 692.733 | 1569.9 | 2.26624 | | | | |
| | 8.73017E-06 | 5953.53 | 13585.6 | 2.28194 | | | | |
| | 6.55975E-06 | #DIV/0! | 4894.58 | #DIV/0! | | | | |
| | 0.00537163 | 678.975 | 234.033 | -2.90119 | 0.00049582 | 1268.4 | 416.133 | -3.04806 |
| | 0.000996354 | 612.9 | 156.65 | -3.91254 | 0.0111245 | 1147.88 | 417.3 | -2.75072 |
| | 0.000129462 | 2245.98 | 650.85 | -3.45083 | 5.14886E-05 | 4889.1 | 1431.78 | -3.41471 |
| | | | | | 0.00835475 | 979.667 | 423.725 | -2.31203 |
| -2.0006 | | | | | | | | |
| -2.6745 | | | | | 4.98881E-09 | 3806.93 | 1028.35 | -3.70197 |
| | | | | | 2.61998E-14 | 5566.43 | 18692.9 | 3.35815 |
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| #DIV/0! | 6.25263E-06 | #DIV/0! | 2016.68 | #DIV/0! | 0.00802774 | #DIV/0! | 2709.55 | #DIV/0! |
| | | | | | 0.000579088 | 2473.6 | 983.25 | -2.51574 |
| | | | | | 4.85404E-05 | 2332.28 | 1131.55 | -2.06113 |
| | | | | | 1.10959E-05 | 624.233 | 307.133 | -2.03245 |
| 2.36661 | 0.000097229 | 1296.8 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.000203898 | 769.633 | 118.9 | -6.47295 |
| | 0.000367157 | 1155.23 | 348.725 | -3.31271 | 5.1502E-06 | 3713.68 | 786.725 | -4.72042 |
| | 0.000106041 | 1053.88 | 388.625 | -2.7118 | 0.000830947 | 1396.58 | 563.925 | -2.47653 |
| | 6.60511E-05 | 3516 | 1312.6 | -2.67865 | 3.99332E-06 | 7979.03 | 2409.78 | -3.31111 |
| | 0.000273613 | 625.5 | 235.175 | -2.65972 | 0.000218917 | 1166.53 | 374.4 | -3.11574 |
| | | | | | 1.95943E-15 | 4812.88 | 16720.3 | 3.47407 |
| | 0.000126151 | 1020.4 | 306.8 | -3.32595 | 2.37898E-05 | 2177.98 | 587.225 | -3.70893 |
| | | | | | 3.09174E-05 | 1475.78 | 484.35 | -3.04692 |
| | | | | | 3.19877E-05 | 1226.85 | 431.625 | -2.8424 |
| | | | | | 2.57184E-06 | 1673.3 | 605.85 | -2.7619 |
| | | | | | 8.85605E-06 | 1492.83 | 691.35 | -2.15929 |
| | | | | | 0.0139308 | 1236.83 | 596.225 | -2.07443 |
| | 0.000696265 | 874.1 | 327.367 | -2.67009 | 3.53324E-05 | 1410.33 | 656.1 | -2.14956 |
| | | | | | 1.0124E-07 | 1215.18 | 578.5 | -2.10056 |
| | | | | | 0.0220268 | 1267.73 | 339.025 | -3.73935 |
| | 3.17913E-05 | 13240.9 | 34822.3 | 2.62992 | 4.15705E-06 | 4501.18 | 14540.4 | 3.23035 |

| | | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|--|
| | 0.000290964 | 17497.1 | 36348.3 | 2.07739 | | | | | |
| | | | | | 0.000315067 | 1405.93 | 520.2 | -2.70268 | |
| | | | | | 0.00697101 | #DIV/0! | 2843.83 | #DIV/0! | |
| | 6.16996E-06 | 915.95 | 309.1 | -2.96328 | 0.00040457 | 1396.45 | 668.067 | -2.09029 | |
| | | | | | 0.000413287 | #DIV/0! | 1467.48 | #DIV/0! | |
| | | | | | 7.34823E-06 | 6222.48 | 1303 | -4.7755 | |
| | | | | | 0.000106123 | 1196.58 | 345.2 | -3.46632 | |
| | | | | | 2.71454E-16 | 32976.7 | 108296 | 3.28402 | |
| 3.34272 | | | | | | | | | |
| | 0.0153377 | 897.275 | 401.8 | -2.23314 | 2.49835E-05 | 1683.45 | 569.033 | -2.95844 | |
| | | | | | 0.000143597 | 2184.33 | 574.7 | -3.80081 | |
| | 0.00349971 | 702.967 | 233.9 | -3.00542 | | | | | |
| | 0.00104462 | 1111.5 | 2362.08 | 2.12512 | 7.45162E-06 | #DIV/0! | 1756.63 | #DIV/0! | |
| | | | | | 3.51127E-06 | #DIV/0! | 2515.58 | #DIV/0! | |
| | | | | | 2.65021E-08 | 4661.98 | 11089.4 | 2.37869 | |
| | 2.49328E-05 | 1459.28 | 3345.43 | 2.29253 | | | | | |
| | | | | | 0.00292055 | 1884.47 | 497.6 | -3.78711 | |
| | 1.41347E-05 | 3680.23 | 10902.5 | 2.96245 | 7.8726E-15 | 958.2 | 12202.2 | 12.7345 | |
| | | | | | 0.00516055 | 664.733 | 202.4 | -3.28426 | |
| | 0.00182013 | 529.9 | 255.55 | -2.07357 | 3.31181E-05 | 1071.88 | 379.267 | -2.82618 | |
| | 1.35753E-06 | 1194.83 | 380.6 | -3.13932 | | | | | |
| | | | | | 3.58726E-05 | 1465.23 | 666.1 | -2.19971 | |
| 11.2384 | 3.42483E-08 | 851.8 | 12441.9 | 14.6065 | 6.5595E-11 | #DIV/0! | 26476.9 | #DIV/0! | |
| 7.14484 | 2.24526E-08 | #DIV/0! | 13459.1 | #DIV/0! | 6.57367E-15 | #DIV/0! | 28784.9 | #DIV/0! | |
| | 4.28118E-06 | 1198.73 | 555 | -2.15986 | | | | | |
| | | | | | 2.06024E-06 | 1223.9 | 505.9 | -2.41925 | |
| | | | | | 4.04641E-06 | 2636.73 | 6836.18 | 2.59268 | |
| 2.10225 | 5.6246E-09 | 2375.7 | 7393.98 | 3.11234 | 2.15831E-10 | #DIV/0! | 7237.73 | #DIV/0! | |
| | | | | | 8.18738E-05 | #DIV/0! | 2789.35 | #DIV/0! | |
| 2.1513 | | | | | | | | | |
| | 0.0001941 | 1010.3 | 300.733 | -3.35945 | 0.00241889 | 1783.17 | 448.15 | -3.97895 | |
| -2.6648 | 8.60924E-09 | 1430.65 | 430.775 | -3.32111 | 6.67033E-07 | 1827.8 | 740.425 | -2.46858 | |
| | | | | | 2.76752E-06 | 2376.1 | 577.7 | -4.11303 | |
| | | | | | 2.36538E-05 | 645.9 | 249.1 | -2.59293 | |
| | | | | | 6.34597E-05 | 2078.55 | 787.025 | -2.64102 | |
| | | | | | 7.44092E-05 | 1709.27 | 660.4 | -2.58823 | |
| | | | | | 6.79537E-07 | 5000.35 | 2010.7 | -2.48687 | |
| -2.0191 | 1.65189E-06 | 7247.6 | 3306.98 | -2.19161 | 1.30712E-06 | 6840.35 | 3289.23 | -2.07962 | |
| | 9.94432E-07 | 1109.95 | 434.767 | -2.55298 | 3.34459E-06 | 1749.7 | 855.85 | -2.0444 | |
| | | | | | 0.00136205 | 1055.9 | 526.375 | -2.00598 | |
| | 4.28617E-10 | 1021.08 | 313.533 | -3.25667 | | | | | |
| -2.1259 | | | | | | | | | |
| | 9.91579E-06 | 12407.8 | 5923.23 | -2.09478 | | | | | |
| | | | | | 0.000351336 | 1335.28 | 611.275 | -2.18441 | |
| | 4.70754E-08 | 2043.93 | 15777.7 | 7.7193 | 7.76748E-07 | 2829.5 | 6814.03 | 2.40821 | |
| 4.35648 | 6.06502E-06 | 1225 | 13806.1 | 11.2703 | 7.55332E-08 | 2191.3 | 5982.58 | 2.73015 | |
| 2.8256 | 1.69079E-08 | 4747.7 | 33107.3 | 6.97333 | 8.86821E-09 | 3703.97 | 16858.8 | 4.55155 | |
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| | 9.83944E-11 | 20809.8 | 49256.2 | 2.36697 | 1.08989E-15 | 11323.4 | 41741.2 | 3.68628 | |
| | 9.11136E-11 | 26791.6 | 64878.1 | 2.42159 | 3.51769E-16 | 15720.9 | 62533.3 | 3.97771 | |
| | | | | | 0.00422373 | 1006.67 | 438.2 | -2.29728 | |
| | | | | | 7.90471E-09 | 21146 | 47974.4 | 2.26873 | |
| | 0.00468914 | 2214.85 | 5512.8 | 2.48902 | 6.77528E-08 | 1773.5 | 13575.6 | 7.65468 | |
| | | | | | 7.67142E-09 | 5241.23 | 19567.4 | 3.73335 | |
| | | | | | 3.3248E-13 | 5625.28 | 23980.5 | 4.26298 | |
| | | | | | 4.55411E-08 | 45452.9 | 101545 | 2.23407 | |
| -2.5684 | | | | | | | | | |
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| | 1.94334E-06 | 8246.2 | 19564 | 2.37248 | 0.000000156 | 3846.38 | 11878.2 | 3.08815 | |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 4.01887E-07 | 5981.9 | 1314.2 | -4.55174 |
| | | | | | 0.000234188 | 6370.13 | #DIV/0! | #DIV/0! |
| | 0.00594243 | 1092.45 | 362.833 | -3.01089 | 0.0194335 | 2118.25 | 453.4 | -4.67192 |
| | | | | | 0.000186917 | 1873.68 | 469.1 | -3.99419 |
| | 0.00545926 | 923.2 | 317.05 | -2.91184 | 0.00156452 | 2030.83 | 424.45 | -4.78462 |
| 3.1203 | 4.37019E-05 | 494.2 | 1428.85 | 2.89124 | 5.03696E-08 | #DIV/0! | 2439.95 | #DIV/0! |
| | | | | | 2.67492E-08 | 5281.88 | 2629.93 | -2.00837 |
| -2.3408 | | | | | | | | |
| 3.18673 | 1.12023E-17 | 1956.08 | 12478.5 | 6.37933 | 1.83271E-17 | 2054.53 | 10592 | 5.1554 |
| | 0.00647332 | #DIV/0! | 882.6 | #DIV/0! | 2.49652E-06 | #DIV/0! | 1090.18 | #DIV/0! |
| -2.9001 | 1.29992E-06 | 2943.58 | 1254.23 | -2.34691 | | | | |
| | 0.000117795 | 706.633 | #DIV/0! | #DIV/0! | | | | |
| #DIV/0! | 1.24295E-13 | #DIV/0! | 7731.85 | #DIV/0! | 4.38946E-14 | #DIV/0! | 11554 | #DIV/0! |
| | | | | | 1.19614E-07 | 1909.5 | 4275.48 | 2.23905 |
| | | | | | 3.6304E-11 | 10683.5 | 27659.6 | 2.58901 |
| -2.1284 | | | | | | | | |
| | | | | | 0.00068168 | 1251.7 | 454.1 | -2.75644 |
| | | | | | 0.0168132 | 1328.88 | #DIV/0! | #DIV/0! |
| | | | | | 0.00165446 | 1196.87 | #DIV/0! | #DIV/0! |
| | | | | | 0.000252144 | 4108.5 | 1000.13 | -4.10799 |
| | | | | | 0.00702155 | 1193.48 | 433.8 | -2.75121 |
| | 0.00316945 | 1179 | 303.275 | -3.88756 | 0.000567538 | 2769.35 | 582.925 | -4.75078 |
| | | | | | 0.000521477 | 4607.63 | 1562.3 | -2.94926 |
| -2.0242 | | | | | 4.83537E-06 | #DIV/0! | 1545.93 | #DIV/0! |
| #DIV/0! | 7.95543E-06 | 1595.2 | 790.3 | -2.01847 | | | | |
| -2.1483 | | | | | | | | |
| | 9.52116E-06 | 1063.65 | 2294.5 | 2.15719 | 1.04113E-08 | 940.667 | 2349.9 | 2.49812 |
| | 3.32703E-05 | 4982.95 | 11505.9 | 2.30905 | 7.09042E-07 | 3076.7 | 9508.2 | 3.09039 |
| | 4.20737E-12 | 6032.55 | 16313.8 | 2.7043 | 6.86647E-15 | 3315.53 | 10753.9 | 3.24348 |
| | 0.000466903 | 533 | 1100.98 | 2.06562 | | | | |
| -6.0047 | 9.36288E-12 | 17610.9 | 1599.68 | -11.009 | 2.8597E-13 | 12129.6 | 941.925 | -12.8774 |
| -7.1637 | 5.56583E-11 | 34439.4 | 1818.13 | -18.9423 | | | | |
| | 7.08243E-07 | 22651.2 | 54195.3 | 2.39261 | | | | |
| | 0.0134663 | 504.1 | #DIV/0! | #DIV/0! | 1.59185E-08 | 1272.27 | #DIV/0! | #DIV/0! |
| | 0.0015774 | 744.933 | #DIV/0! | #DIV/0! | | | | |
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| | | | | | 1.22972E-05 | 2743.2 | 537.75 | -5.10126 |
| | 0.00041514 | 1080.03 | #DIV/0! | #DIV/0! | 0.000611753 | 2435.67 | 532.367 | -4.57517 |
| | | | | | 0.00380716 | 1325.1 | #DIV/0! | #DIV/0! |
| | | | | | 8.08202E-07 | 2838.08 | 6037.68 | 2.12738 |
| 3.4862 | 1.27261E-16 | 3175.05 | 13706 | 4.31679 | 5.89964E-15 | 3489.5 | 12146.8 | 3.48096 |
| 3.88045 | 3.70587E-07 | 675.425 | 3604.53 | 5.33668 | 7.01857E-07 | 584.2 | 2478.93 | 4.24328 |
| 2.21618 | 8.24248E-13 | 3739.9 | 13444.5 | 3.59488 | 7.51011E-15 | #DIV/0! | 13539.2 | #DIV/0! |
| | 2.78192E-05 | 9331.13 | 4248.05 | -2.19657 | 7.8242E-07 | 6909.1 | 2935 | -2.35404 |
| #DIV/0! | 0.00184043 | #DIV/0! | 1309.43 | #DIV/0! | 2.03689E-05 | #DIV/0! | 2125.93 | #DIV/0! |
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| | | | | | 0.000339844 | 1887.1 | 796.9 | -2.36805 |
| | | | | | 0.00789561 | 1512.95 | 541.5 | -2.794 |
| | | | | | 0.000421191 | 1035 | 390.6 | -2.64977 |
| | | | | | 5.8371E-08 | #DIV/0! | 2800.55 | #DIV/0! |
| | 1.23793E-05 | 19963.1 | 7690.28 | -2.59589 | 1.61064E-09 | 42308 | 11241.7 | -3.76348 |
| | 0.000834565 | 9298 | 4297.45 | -2.16361 | 3.75393E-07 | 19838.1 | 6998.08 | -2.83479 |
| | 0.000454626 | 10166.5 | 4406.48 | -2.30717 | 9.79418E-07 | 20905 | 7495.18 | -2.78912 |
| | 5.01406E-08 | 28069.3 | 8922.7 | -3.14583 | 8.31242E-12 | 51598.1 | 12349 | -4.17831 |
| | 0.00666103 | 619.75 | 113.6 | -5.45555 | | | | |
| | | | | | 0.000255424 | 1407.95 | 3588.73 | 2.5489 |
| 2.24022 | | | | | | | | |
| | | | | | 2.83002E-09 | 2167.03 | 4992.18 | 2.30369 |
| | | | | | 1.60799E-12 | 2973.63 | 8066.1 | 2.71255 |
| | | | | | 5.87576E-05 | #DIV/0! | 6272.48 | #DIV/0! |
| | 0.000002573 | 1205.9 | 479.45 | -2.51517 | 2.55594E-07 | 1365.1 | 455.25 | -2.99857 |
| | | | | | 2.27078E-10 | 3273.18 | 698.625 | -4.68517 |
| | | | | | 1.81598E-13 | 3239.75 | 8834.95 | 2.72705 |

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| | | | | | 0.000851922 | #DIV/0! | 1417.7 | #DIV/0! |
| -3.1345 | | | | | | | | |
| | 0.000176921 | 2092.83 | 654.625 | -3.19698 | 1.38256E-05 | 5330.7 | 1092.95 | -4.87735 |
| | 0.000547557 | 817.05 | 275.875 | -2.96167 | 0.00218074 | 1278.48 | 453.3 | -2.82037 |
| | | | | | 0.00256461 | 1756.13 | 742 | -2.36676 |
| | | | | | 0.0212958 | 2492.13 | #DIV/0! | #DIV/0! |
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| 2.05642 | 3.98412E-05 | 1193.95 | 3620.6 | 3.03246 | | | | |
| | 0.00520935 | 886.55 | 342.7 | -2.58696 | 0.00562356 | 1517.4 | 578.75 | -2.62186 |
| | 0.00193794 | 1356.97 | 530.2 | -2.55935 | | | | |
| | 0.00124697 | 1212.3 | 536.9 | -2.25796 | | | | |
| | | | | | 1.29485E-05 | 2390.63 | 892.875 | -2.67745 |
| | | | | | 0.000365242 | 1937.48 | 794.1 | -2.43984 |
| | | | | | 0.00175599 | 1174.07 | #DIV/0! | #DIV/0! |
| | | | | | 6.57969E-06 | 2411 | 498.225 | -4.83918 |
| | | | | | 1.93177E-06 | 1315.08 | 436.275 | -3.01433 |
| | | | | | 9.71276E-06 | 2033.57 | 925.9 | -2.19631 |
| | | | | | 0.00199639 | 1709.3 | 764.65 | -2.2354 |
| | 0.000426492 | 6279.95 | 1408.75 | -4.45782 | 2.88313E-07 | 5031.28 | 457.367 | -11.0005 |
| | 0.00321127 | 555.767 | #DIV/0! | #DIV/0! | 8.65555E-05 | 1520.9 | 386.85 | -3.9315 |
| | | | | | 0.0166995 | #DIV/0! | 759.567 | #DIV/0! |
| | | | | | 1.08247E-07 | #DIV/0! | 7388.2 | #DIV/0! |
| | | | | | 3.41802E-05 | 5782.7 | 11810.7 | 2.04242 |
| | | | | | 1.26694E-06 | 3347.83 | 9218.78 | 2.75366 |
| | | | | | 0.000451556 | #DIV/0! | 1150.48 | #DIV/0! |
| | | | | | 0.00641956 | 810.95 | 254.15 | -3.19083 |
| | | | | | 0.00412026 | 1923.38 | 846.9 | -2.27108 |
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| | | | | | 0.00181508 | 3516.45 | 977.133 | -3.59874 |
| 2.9301 | 4.1483E-07 | 384.2 | 1658.4 | 4.3165 | 0.000224474 | #DIV/0! | 1295.73 | #DIV/0! |
| 2.29644 | | | | | 0.00161506 | #DIV/0! | 1473.6 | #DIV/0! |
| | | | | | 0.00144726 | 1991.3 | 605.733 | -3.28742 |
| -4.615 | 1.43799E-07 | 6982.6 | 1345.05 | -5.19133 | 2.9268E-09 | 5928.18 | 1061.75 | -5.5834 |
| | | | | | 0.0093816 | 2263.33 | 614.867 | -3.681 |
| | | | | | 1.63705E-06 | 3712.55 | 770.5 | -4.81836 |
| | 8.51771E-06 | 1886.53 | 684.175 | -2.75737 | 4.91334E-06 | 4229.95 | 1397.68 | -3.02642 |
| | | | | | 0.000376343 | 1687.37 | 388.4 | -4.3444 |
| -2.3301 | 2.37408E-06 | 1755.33 | 520.4 | -3.37305 | | | | |
| | | | | | 0.00897924 | 1499.7 | 698.633 | -2.14662 |
| | | | | | 5.89601E-05 | 2043.25 | 967.25 | -2.11243 |
| | | | | | 0.000203501 | 738.033 | 295.45 | -2.498 |
| | | | | | 8.18423E-05 | 3339.05 | 976.475 | -3.41949 |
| | | | | | 8.25393E-09 | 2072.53 | 5216.88 | 2.51716 |
| 2.47514 | 1.38519E-08 | 4103.28 | 10209.8 | 2.48821 | 1.67167E-12 | 2261.43 | 8175.1 | 3.61501 |
| | | | | | 0.000018662 | 802.267 | 357.2 | -2.24599 |
| | 0.000513492 | 2435.45 | 4979.38 | 2.04454 | | | | |
| | | | | | 1.18902E-06 | 858.233 | 335.5 | -2.55807 |
| | 0.000107843 | 811.4 | 119.8 | -6.77295 | | | | |
| | 0.000789148 | 6422.88 | 3102.23 | -2.07041 | | | | |
| | 0.00274934 | 914.633 | 366.7 | -2.49423 | 5.05913E-05 | 3370.5 | 660.6 | -5.10218 |
| | | | | | 0.00644209 | 1460.95 | 453.733 | -3.21984 |
| | 0.00122347 | 842.6 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.0152309 | 1420.93 | 544.35 | -2.61033 |
| | | | | | 1.10215E-06 | 3502.8 | 1295.95 | -2.70288 |
| | 4.03646E-06 | 2529.55 | 1141.15 | -2.21667 | 3.56841E-10 | 3811.53 | 1101.15 | -3.46141 |
| | 0.00374027 | 648.4 | 175.1 | -3.70303 | 0.00211693 | 1412.08 | 572.5 | -2.46651 |
| 3.25634 | 3.85831E-14 | 2579.8 | 16835.1 | 6.52573 | 4.21494E-15 | 2005.95 | 10055.1 | 5.01265 |
| 3.53699 | 7.70855E-13 | 2315.4 | 17409 | 7.51878 | 1.75776E-12 | 1756.03 | 9787.13 | 5.57343 |
| 2.73403 | 8.0537E-13 | 5008.75 | 30981.4 | 6.18545 | 7.58415E-16 | 3059.4 | 19322.1 | 6.31565 |
| 2.98652 | 5.91288E-14 | 7044.1 | 30732.8 | 4.36291 | 2.26906E-17 | 3013.1 | 21992 | 7.29878 |
| | | | | | 0.0123444 | 3400.4 | 727.45 | -4.67441 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00190251 | 3154.6 | 729.367 | -4.32512 |
| | | | | | 0.000532983 | 7683.88 | 1840.53 | -4.17483 |
| | 7.97822E-05 | 895.325 | 260.3 | -3.43959 | 0.00242237 | 1600.63 | 553.75 | -2.89052 |
| | 0.000432578 | 1855.93 | 546.65 | -3.39509 | 3.52698E-05 | 4222.55 | 1045.88 | -4.03734 |
| | 0.00135585 | 971.125 | 2368.15 | 2.43856 | 5.48058E-09 | 909.9 | 2506.08 | 2.75423 |
| 6.11956 | | | | | 6.13539E-05 | #DIV/0! | 2326.93 | #DIV/0! |
| | 1.13267E-12 | 6074.68 | 97764.3 | 16.0937 | 1.10923E-13 | 9784.85 | 137731 | 14.0759 |
| | | | | | 0.016314 | 947.475 | 302.333 | -3.13388 |
| | 0.00342161 | 2976.33 | 1035.1 | -2.8754 | 0.0050534 | 5383.7 | 2342.83 | -2.29795 |
| | | | | | 7.6506E-07 | 2044.83 | 894.7 | -2.28549 |
| | | | | | 0.00761025 | 1034.58 | 456.75 | -2.26508 |
| | 8.37206E-12 | 8698.05 | 19806.7 | 2.27714 | 5.6203E-17 | 5192.98 | 16446.4 | 3.16704 |
| | 1.55608E-07 | 1207.85 | 3522 | 2.91592 | 3.65646E-12 | 988.7 | 3277.43 | 3.31488 |
| | 1.31273E-10 | 3205.28 | 10553.7 | 3.29261 | 4.79965E-12 | 2579.5 | 9196.23 | 3.56512 |
| -3.508 | 2.74569E-14 | 5886.85 | 1222.63 | -4.81489 | 9.42784E-13 | 2960.8 | 864.5 | -3.42487 |
| -2.1728 | | | | | 0.000299624 | #DIV/0! | 2155.25 | #DIV/0! |
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| | 0.00116788 | 3476.35 | 1486.93 | -2.33793 | 5.13591E-12 | 36071.3 | 100883 | 2.79676 |
| | | | | | 2.8881E-06 | 3200.9 | 8481.08 | 2.64959 |
| | 0.000956813 | 6192.73 | 15016.7 | 2.42489 | 8.61658E-10 | 2112.6 | 8569.98 | 4.0566 |
| | | | | | 6.31877E-10 | 5209.9 | 25122.1 | 4.822 |
| | | | | | 6.18181E-18 | 15535.8 | 83662.2 | 5.38512 |
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| | | | | | | | | |
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| | | | | | 0.000598893 | 1112.73 | 341.6 | -3.25739 |
| | | | | | 0.0219875 | 1437.75 | 475.65 | -3.02271 |
| | | | | | 0.00445794 | 2640.35 | 573.767 | -4.60178 |
| | | | | | 0.000563077 | 5663.68 | 2011 | -2.81635 |
| | | | | | 0.00996406 | 511.4 | 209.6 | -2.43989 |
| | 0.00318142 | 734.833 | 318.7 | -2.30572 | | | | |
| | | | | | 0.000997112 | 10003.1 | 1596.05 | -6.26743 |
| | | | | | 0.00170664 | 636.267 | #DIV/0! | #DIV/0! |
| 4.54585 | 1.13734E-11 | 6684.38 | 44460.2 | 6.65137 | 3.89592E-13 | 5815.8 | 45636.7 | 7.84702 |
| 3.5879 | 5.26893E-12 | 12049.9 | 62525.6 | 5.18891 | 2.79416E-16 | 8142.28 | 73376.6 | 9.01181 |
| 5.61673 | 2.35579E-14 | 4162.73 | 39347.7 | 9.4524 | 1.20071E-14 | 4464.3 | 40377.3 | 9.04449 |
| | 0.00386904 | #DIV/0! | 556.167 | #DIV/0! | | | | |
| 4.021 | 2.96722E-06 | 933.533 | 3992.5 | 4.27676 | | | | |
| | | | | | 0.0026345 | 754.933 | #DIV/0! | #DIV/0! |
| | | | | | 5.70954E-15 | 6984.93 | 15299.6 | 2.19037 |
| | | | | | 2.73958E-09 | 5650.03 | 13419.3 | 2.37508 |
| | 0.000004052 | 2694.5 | 7012.93 | 2.60268 | | | | |
| | | | | | 0.00218383 | 748.2 | 1787.28 | 2.38877 |
| | | | | | 0.0222097 | 1107.75 | 460.533 | -2.40536 |
| | 0.000314573 | 734.033 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 1.71649E-13 | 15568.4 | 54357.8 | 3.49155 |
| 2.22146 | 2.0921E-06 | 2195.53 | 7204.25 | 3.28133 | 1.21594E-06 | 1748.3 | 5036.15 | 2.8806 |
| | | | | | 3.45129E-13 | 6583.68 | 24977.1 | 3.7938 |
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| #DIV/0! | | | | | | | | |
| | | | | | 9.52058E-06 | 1501.73 | 3291.7 | 2.19195 |
| | | | | | 0.00369588 | 1333.8 | 440.05 | -3.03102 |
| -2.2209 | 8.06897E-05 | 1585.28 | 740.025 | -2.14219 | | | | |
| -2.244 | 5.13944E-05 | 1046.6 | 398.567 | -2.62591 | 3.96642E-08 | 1747.63 | 649.55 | -2.69052 |
| | 0.0040845 | 1051.6 | 373.833 | -2.81302 | 0.00021089 | 2828.28 | 736.275 | -3.84133 |
| | | | | | 0.000763385 | 1747 | 743.7 | -2.34907 |
| | 0.0111718 | 596.375 | 267.1 | -2.23278 | 0.00141344 | 903.775 | #DIV/0! | #DIV/0! |
| | | | | | 0.0215204 | 1603.15 | 514.35 | -3.11685 |
| 2.15249 | 5.52707E-07 | 23804.2 | 123127 | 5.17249 | 3.58656E-08 | 50105.2 | 212438 | 4.23984 |
| 2.2077 | 7.43008E-07 | 22875.1 | 120957 | 5.28771 | 2.18512E-08 | 46116 | 212301 | 4.60362 |
| 2.59092 | 1.96402E-08 | 18475.4 | 131183 | 7.1004 | 3.88082E-09 | 40142.6 | 209539 | 5.21987 |

| | | | | | | | |
|---------|-------------|---------|---------|-------------|---------|---------|----------|
| | | | | 1.70727E-09 | 1535.9 | 4349.98 | 2.8322 |
| | | | | 8.15827E-12 | 2418.33 | 7655.98 | 3.16582 |
| | | | | 0.0150475 | 1117.48 | 393.4 | -2.84056 |
| | | | | 0.00412115 | 1961.05 | 770.025 | -2.54674 |
| | | | | 0.000735448 | 1507.13 | #DIV/0! | #DIV/0! |
| | 0.0020458 | 3820.78 | 7649.2 | 4.58633E-06 | 4306.4 | 9513.43 | 2.20914 |
| | 1.84913E-05 | 1120.65 | 443.475 | 9.1351E-07 | 1673.2 | 597.425 | -2.80069 |
| | | | | 0.000386541 | 3271.75 | #DIV/0! | #DIV/0! |
| | 0.0135038 | #DIV/0! | 2083.98 | 0.0017584 | #DIV/0! | 1855.25 | #DIV/0! |
| | | | | 0.00600031 | #DIV/0! | 2782.18 | #DIV/0! |
| | 0.000711758 | 670.45 | 333.733 | | | | -2.00894 |
| | | | | 2.65452E-05 | 2598.3 | 994.667 | -2.61223 |
| | 0.000783466 | 800.733 | 198.15 | 0.00115822 | 1672.48 | #DIV/0! | #DIV/0! |
| | 5.41341E-07 | 1375.53 | 424.025 | 1.59877E-10 | 4498.3 | 828.325 | -5.4306 |
| | 6.45679E-05 | 2690.83 | 1246.4 | | | | -2.15888 |
| | 0.0137264 | 815.6 | 233.2 | | | | -3.49743 |
| | 0.00051316 | 1621.83 | 325.3 | | | | -4.98565 |
| | 0.00302385 | 677.667 | 247.5 | | | | -2.73805 |
| | 0.00581267 | #DIV/0! | 1785.53 | | | | #DIV/0! |
| 8.27579 | 5.04044E-22 | 4040.05 | 64998.6 | 5.2987E-23 | 5220.53 | 86865.4 | 16.6392 |
| | 0.00434035 | 28377.8 | 9843.63 | 0.00242328 | 20772.4 | 6045.1 | -3.43623 |
| | 0.00647761 | 18607.4 | 8097.33 | 0.00149978 | 14934.3 | 4443.08 | -3.36126 |
| | 0.00482055 | 17847.1 | 6448.35 | 0.0026289 | 12381.9 | 4105.03 | -3.01627 |
| | 0.000458162 | 1021.23 | 437.15 | 0.00219076 | 1089.48 | 398.075 | -2.73686 |
| | | | | 0.0078269 | 2670.8 | 1054.57 | -2.5326 |
| | 4.79784E-05 | 15482.6 | 5786.48 | 0.000107031 | 12872.7 | 4732.03 | -2.72034 |
| -2.4409 | 6.08699E-06 | 13069.1 | 3062.93 | | | | -4.26686 |
| -2.1044 | 2.89714E-07 | 22577.5 | 11171.5 | | | | -2.02099 |
| | | | | 1.01458E-08 | 2639.73 | 8193.13 | 3.10377 |
| | 0.000102892 | 631.175 | 190.7 | 1.19409E-05 | 1004.93 | 425.6 | -2.36122 |
| | 2.11235E-05 | 1158.9 | 3500.83 | | | | 3.02082 |
| | 0.000552328 | #DIV/0! | 1239.9 | 0.0212614 | #DIV/0! | 1647.67 | #DIV/0! |
| | | | | 0.00197934 | 3418.23 | 1469.35 | -2.32635 |
| -3.5069 | 4.24802E-06 | 823.675 | 172.1 | 4.33045E-05 | 979.225 | 265.733 | -3.68499 |
| -3.3347 | 2.47922E-06 | 2845.38 | 418.475 | 0.00286205 | 1659.25 | 584.875 | -2.83693 |
| -5.239 | | | | 0.000378757 | 1158.15 | 514.467 | -2.25117 |
| | 5.89004E-07 | 933.9 | #DIV/0! | | | | #DIV/0! |
| | 0.000288308 | 944.9 | 461.533 | 4.03232E-07 | 1367.6 | 332.15 | -4.11742 |
| | | | | 1.19494E-07 | 1955.55 | 511.4 | -3.82391 |
| | 0.000016963 | 1375.2 | 553.425 | 2.81824E-06 | 2360.15 | 839.975 | -2.80979 |
| | | | | 0.000467133 | 3408.48 | 758.667 | -4.49272 |
| | | | | 0.00563987 | 1497.03 | 544.233 | -2.75072 |
| | | | | 2.52088E-07 | 1834.4 | 672.9 | -2.72611 |
| | | | | 0.000107658 | 1959.6 | 978.7 | -2.00225 |
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| | 1.57277E-11 | 7065.63 | 17265 | 5.11024E-17 | 3550.15 | 13326.5 | 3.75379 |
| | | | | 3.71313E-07 | 4281.48 | 8792.63 | 2.05364 |
| | 0.000269695 | 774.3 | 342.8 | 4.01032E-07 | 1407.83 | 342.3 | -4.11284 |
| | 4.94158E-07 | 895.75 | 271.333 | 6.41867E-08 | 1875.65 | 476.05 | -3.94003 |
| | 4.88361E-07 | 992.675 | 241.75 | 3.11047E-06 | 1514.65 | 485.85 | -3.11753 |
| | | | | 1.04303E-06 | 2050.73 | 602.4 | -3.40426 |
| | 0.000154151 | 748.65 | 314.575 | | | | -2.37988 |
| | 6.94453E-06 | 1933.1 | 903.65 | | | | -2.13921 |
| | 4.14835E-07 | 2557.53 | 965.55 | 9.35519E-09 | 4612.3 | 1333.88 | -3.45782 |
| | 0.00149388 | 1391.93 | 2860.2 | 0.00013358 | 1041.47 | 2249.38 | 2.15981 |
| | 0.00346244 | #DIV/0! | 3204.33 | | | | #DIV/0! |
| 2.65945 | | | | 0.0158481 | #DIV/0! | 1332.85 | #DIV/0! |
| 2.16782 | 0.00726837 | 927.8 | 2041 | 1.99149E-05 | #DIV/0! | 1173.13 | #DIV/0! |
| | 0.00818686 | 770.1 | 1696.5 | 0.000273999 | 1375.7 | 666.375 | -2.06445 |
| | | | | 0.00012586 | #DIV/0! | 2872.83 | #DIV/0! |
| | | | | 0.00217589 | #DIV/0! | 2449.43 | #DIV/0! |
| | | | | 0.00228946 | #DIV/0! | 1028.2 | #DIV/0! |

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|---------|-------------|---------|---------|-------------|-------------|---------|----------|
| | | | | 0.0190385 | #DIV/0! | 1858.08 | #DIV/0! |
| | 0.00567714 | 993.267 | 307.2 | -3.23329 | | | |
| | | | | 6.87154E-12 | 9890.35 | 23018.2 | 2.32733 |
| | | | | 0.000541378 | 2283.65 | 461.167 | -4.9519 |
| | | | | 0.0016732 | 2939.6 | 720.5 | -4.07994 |
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| -3.7121 | 8.48166E-07 | 2345.03 | 495.8 | -4.72978 | 2.6747E-08 | 4237.1 | 668.775 |
| -3.3977 | | | | | 3.71098E-06 | 2581.8 | 864.45 |
| | | | | | 3.58752E-09 | 3724.15 | 889.4 |
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| #DIV/0! | | | | | 3.97359E-06 | 1740.25 | 622.35 |
| | 8.2329E-07 | 4772.68 | 1793.85 | -2.66058 | | | |
| | 0.00035275 | 3217.77 | 1351.8 | -2.38036 | | | |
| | | | | 0.0115188 | #DIV/0! | 3471.13 | #DIV/0! |
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| | | | | 9.89031E-05 | #DIV/0! | 1905.7 | #DIV/0! |
| | | | | 1.9069E-07 | 6039.13 | 14190 | 2.34968 |
| | | | | 6.3845E-08 | 2897.1 | 7342.18 | 2.53432 |
| | | | | 6.64779E-07 | 2024.83 | 9060.73 | 4.4748 |
| | 0.000033719 | 6717.28 | 15557.8 | 2.31609 | 9.27321E-12 | 1811.1 | 8582.7 |
| | 7.95528E-05 | 4821.78 | 10395 | 2.15583 | 4.63242E-06 | 2389.13 | 5660.1 |
| | 0.000172249 | 4302.5 | 9474.33 | 2.20205 | 3.0104E-06 | 2297.73 | 5487.33 |
| | | | | | 2.38613E-06 | 909.267 | 206 |
| | | | | | 1.69996E-05 | 2688.3 | 6272.9 |
| | 5.79725E-09 | 2043.15 | 8080.95 | 3.95514 | 2.83962E-05 | 742.8 | 1900.58 |
| | 0.000614221 | 895.45 | 2122.35 | 2.37015 | 3.70169E-11 | 2324.03 | 718.225 |
| | 1.15927E-07 | 1407.03 | 645.1 | -2.1811 | 2.92494E-10 | 6271.53 | 2302.85 |
| -2.4359 | 9.09935E-08 | 5732.35 | 2568.13 | -2.23211 | | | |
| | 1.61277E-10 | 5922.05 | 2194.53 | -2.69856 | | | |
| #DIV/0! | 2.0625E-06 | 1387.4 | #DIV/0! | #DIV/0! | | | |
| | 4.18451E-08 | 1483.45 | 3502.58 | 2.3611 | 5.7711E-08 | 1788.53 | 4151.65 |
| | | | | | 8.92653E-11 | 4775.98 | 15124.2 |
| | | | | | 7.23401E-11 | 2962.05 | 10286 |
| | 0.00275184 | 543.4 | 269.367 | -2.01732 | 0.0218076 | 1126.8 | 444.7 |
| -3.6114 | 5.31692E-16 | 7294.63 | 1420.03 | -5.13697 | 3.17437E-08 | 2564.7 | 1219.6 |
| -2.7903 | 1.61805E-08 | 24534.8 | 4986.65 | -4.92009 | | | |
| -3.5012 | 4.93332E-09 | 7110.3 | 1779.4 | -3.9959 | | | |
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| -4.2114 | | | | | | | |
| | | | | | 2.74141E-05 | 1620.45 | 550.75 |
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| | 0.000718626 | 886.6 | 251.633 | -3.52338 | 1.80661E-06 | 1995.83 | 563.15 |
| | | | | | 5.43897E-05 | 1621 | 306.3 |
| | | | | | 0.0121857 | 1574.13 | 441.2 |
| | | | | | 0.00020949 | 1391.87 | 439.2 |
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| | | | | | 2.72846E-09 | 5923.8 | 1711.43 |
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| | 2.20385E-08 | 1402.15 | 571.45 | -2.45367 | | | |
| | | | | | 1.30214E-07 | 5489.53 | 14407.6 |
| | | | | | 7.33984E-10 | 3438.63 | 1381.07 |
| | | | | | 0.000348618 | 1776.9 | 662.4 |
| | | | | | 6.77728E-10 | 1277.23 | 400.275 |
| -2.6253 | 0.000609831 | 1356.25 | 596.45 | -2.27387 | | | |
| | | | | | 1.27847E-08 | 4673 | 13918.4 |
| -2.1712 | 2.93733E-11 | 1145.97 | 387.1 | -2.96039 | | | |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| -2.0664 | | | | | 1.46205E-06 | 1203.88 | 427.333 | -2.81718 |
| | | | | | 6.36225E-09 | 43465.1 | 144594 | 3.32667 |
| | | | | | 1.13902E-09 | 23577.9 | 111496 | 4.72884 |
| | | | | | 1.31996E-11 | 20865.3 | 169656 | 8.13101 |
| | 7.28798E-05 | 519.933 | 203.4 | -2.55621 | | | | |
| | 0.0014332 | 898.133 | #DIV/0! | #DIV/0! | | | | |
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| | 6.9152E-06 | 5244.05 | 13655.6 | 2.60401 | 9.18495E-08 | 2418.2 | 6919.58 | 2.86146 |
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| 7.29486 | 8.11601E-11 | 1807.5 | 14016.5 | 7.75462 | 9.28728E-07 | 2019.98 | 7229.18 | 3.57884 |
| | | | | | 0.00973451 | 1146.03 | 361.033 | -3.17429 |
| | | | | | 0.0053784 | 1207.05 | 396.2 | -3.04657 |
| | | | | | 1.15336E-09 | 4305.55 | 11871 | 2.75714 |
| | | | | | 0.00034906 | 713.725 | 314.15 | -2.27192 |
| | | | | | 3.82653E-07 | 2744.88 | 1131.03 | -2.42689 |
| | | | | | 0.00031295 | 1723.25 | 812.075 | -2.12203 |
| -2.7831 | | | | | | | | |
| -2.0813 | | | | | | | | |
| | | | | | 2.07316E-06 | 1293.3 | 588.833 | -2.19638 |
| | | | | | 1.78112E-07 | 14981.4 | 33000.6 | 2.20277 |
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| | | | | | 1.18271E-09 | 28778.4 | 68111.1 | 2.36674 |
| | | | | | 2.15841E-09 | 26602.4 | 63814.3 | 2.39882 |
| | | | | | 4.43935E-11 | 23530.8 | 66235.1 | 2.81483 |
| | | | | | 9.44153E-10 | 6293.9 | 15045.6 | 2.39051 |
| | | | | | 2.43428E-12 | 8274.45 | 24512.2 | 2.9624 |
| | | | | | 1.51069E-09 | 4431.35 | 11756.4 | 2.65301 |
| -2.7551 | 4.94524E-09 | 8753.15 | 2061.65 | -4.2457 | 7.83712E-08 | 3322.63 | 1006.45 | -3.30133 |
| | 7.08251E-05 | 1156.08 | 293 | -3.94565 | | | | |
| 2.23692 | | | | | | | | |
| | | | | | 5.36606E-13 | 12101.5 | 48467.4 | 4.00506 |
| -2.7634 | 0.000120492 | 1879.95 | 727.875 | -2.58279 | 0.000247784 | 2550.63 | 980.95 | -2.60016 |
| | | | | | 0.0170355 | 1296.1 | 590.367 | -2.19542 |
| | | | | | 3.24255E-07 | 8339.83 | 2510.8 | -3.32158 |
| | | | | | 8.11322E-05 | 8134.25 | 2645.98 | -3.0742 |
| | 0.0112129 | 8559.5 | 22455.2 | 2.62342 | 6.77297E-09 | 2299.57 | 27569.9 | 11.9892 |
| | | | | | 0.00085149 | 1283.9 | 420.45 | -3.05363 |
| | 0.0039529 | 632.575 | 149.2 | -4.23978 | | | | |
| | | | | | 1.58951E-07 | 1847.4 | 883.1 | -2.09195 |
| | | | | | 4.40394E-12 | 2374.8 | 7356.55 | 3.09776 |
| | | | | | 0.00896939 | 1257.23 | 260.5 | -4.8262 |
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| | 1.32585E-05 | 3663.78 | 9441.75 | 2.57706 | 4.48641E-10 | 1636 | 7498.03 | 4.58314 |
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| | | | | | 1.92393E-07 | 1304.45 | 3897.65 | 2.98796 |
| | | | | | 1.17538E-13 | 2069.38 | 9122.33 | 4.40825 |
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| | | | | | 8.94861E-08 | 4699.1 | 10068.6 | 2.14267 |
| | 1.68011E-06 | 8415.7 | 17013.5 | 2.02164 | 1.285E-09 | 5077.15 | 13927.8 | 2.74323 |
| | | | | | 1.00479E-10 | 8206.23 | 24207.3 | 2.94986 |
| | | | | | 0.000421975 | 3266.43 | 1415.23 | -2.30806 |
| | | | | | 5.39858E-14 | 2223.3 | 6426.18 | 2.89038 |
| | 5.27073E-06 | 1150.9 | 336.625 | -3.41894 | 3.59478E-08 | 1831.85 | 427.7 | -4.28303 |
| | | | | | 0.0183328 | 843.225 | 313.7 | -2.688 |
| | 0.00179441 | 582.025 | #DIV/0! | #DIV/0! | 0.00178902 | 1326.53 | 467.567 | -2.83708 |
| -2.6314 | 1.29735E-05 | 786.725 | 232.2 | -3.38814 | | | | |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| -2.6921 | 5.58725E-07 | 1099.28 | 356.533 | -3.08323 | | | | |
| | 2.70366E-05 | 951.1 | 354.05 | -2.68634 | | | | |
| 2.28559 | 1.10159E-06 | 1497.23 | 4439.1 | 2.96487 | | | | |
| | 9.44498E-06 | 1557.35 | 5451.75 | 3.50066 | 8.43246E-08 | 2041.4 | 11118.8 | 5.44667 |
| | | | | | 2.59184E-09 | 1855.65 | 13029.6 | 7.02157 |
| | | | | | 0.000300252 | 1328.43 | 660.133 | -2.01237 |
| 2.54991 | | | | | 1.32176E-09 | #DIV/0! | 8920.88 | #DIV/0! |
| | 0.000299101 | 1274 | 410.35 | -3.10467 | 1.54177E-05 | 4100.7 | 865.25 | -4.73932 |
| | | | | | 0.00251312 | 1081.55 | 229.3 | -4.71675 |
| | 0.00993526 | 952.6 | 292.2 | -3.2601 | 0.000215589 | 2767.58 | 587 | -4.71478 |
| | | | | | 0.000269057 | 3373.13 | 797.725 | -4.22843 |
| | 0.00508614 | 1435.43 | 583.95 | -2.45814 | 1.39223E-18 | 7776.3 | 29406.2 | 3.78152 |
| | | | | | 2.11196E-08 | 2911.93 | 5851.28 | 2.00942 |
| | | | | | 3.69949E-05 | 1281.6 | 2623.08 | 2.04672 |
| | | | | | 2.73697E-10 | 2996.95 | 7295.65 | 2.43436 |
| | | | | | 0.00221922 | 1695.9 | #DIV/0! | #DIV/0! |
| | | | | | 0.000351758 | 1027.15 | #DIV/0! | #DIV/0! |
| | | | | | 1.08621E-05 | 1768.75 | 666.8 | -2.65259 |
| | 1.59372E-05 | 1643.15 | 4860.98 | 2.95833 | | | | |
| 18.1728 | 1.21751E-16 | 3271.85 | 64281.9 | 19.6469 | 9.61165E-18 | 5642.38 | 109842 | 19.4673 |
| | 0.00407324 | 2479.25 | 706.55 | -3.50895 | 0.000610246 | 6425.9 | 1274.08 | -5.04358 |
| | 0.00837605 | 819.375 | 308.45 | -2.65643 | 0.000955592 | 1820.2 | 389.575 | -4.67227 |
| 7.89606 | | | | | | | | |
| | 6.97482E-07 | 7064.45 | 16910.8 | 2.39379 | 5.11058E-12 | 3899.15 | 17368 | 4.45429 |
| 2.52377 | | | | | 2.31207E-14 | 25882.4 | 159865 | 6.17658 |
| | | | | | 2.34283E-07 | 1820.58 | 764.667 | -2.38087 |
| | 7.15092E-06 | 1528.03 | #DIV/0! | #DIV/0! | 0.000154882 | 2927.2 | #DIV/0! | #DIV/0! |
| | | | | | 0.00222897 | 1291.43 | 389.133 | -3.31872 |
| | | | | | 0.000844438 | 1669.95 | 527.225 | -3.16743 |
| | | | | | 0.0149679 | 1519.95 | 500.333 | -3.03787 |
| | | | | | 0.00475322 | 1563.43 | 436.8 | -3.57927 |
| -4.7686 | 6.68765E-06 | 1399.57 | 275.775 | -5.07503 | | | | |
| -4.8004 | 0.00020198 | 864 | 249.067 | -3.46895 | | | | |
| | 0.000259561 | 2692.65 | 1012.2 | -2.6602 | 0.000120278 | 4376.28 | 1344.45 | -3.25507 |
| #DIV/0! | | | | | | | | |
| | 0.000326508 | #DIV/0! | 3111.03 | #DIV/0! | 5.9469E-09 | #DIV/0! | 3635.85 | #DIV/0! |
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| -5.5058 | | | | | | | | |
| 2.66502 | | | | | | | | |
| #DIV/0! | | | | | | | | |
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| -4.7797 | 1.06091E-06 | 2145.53 | 358.3 | -5.98807 | 3.28598E-05 | 3213.73 | 526.9 | -6.09931 |
| | | | | | | | | |
| | 0.000292873 | 655.167 | #DIV/0! | #DIV/0! | | | | |
| -2.247 | 0.000145071 | 3954.05 | 1970 | -2.00713 | | | | |
| | | | | | 6.08715E-07 | 1953.8 | #DIV/0! | #DIV/0! |
| #DIV/0! | 0.000446745 | 1219.15 | #DIV/0! | #DIV/0! | 9.343E-07 | 2142.3 | 351.9 | -6.08781 |
| #DIV/0! | 1.4554E-09 | 1184.55 | #DIV/0! | #DIV/0! | 9.18165E-06 | 1928.8 | #DIV/0! | #DIV/0! |
| 6.35093 | 1.08308E-06 | #DIV/0! | 4172.15 | #DIV/0! | 0.00111456 | #DIV/0! | 5748.2 | #DIV/0! |
| | | | | | 0.000147493 | 1514.55 | 492.8 | -3.07336 |
| | 3.58077E-06 | 1215.85 | 538.525 | -2.25774 | 8.6347E-09 | 1931.9 | 626.25 | -3.08487 |
| | 1.58118E-09 | 962.75 | 473.967 | -2.03126 | 7.19758E-11 | 1930.17 | 676.233 | -2.85429 |
| | | | | | 1.45197E-05 | 1758.2 | 735.133 | -2.39167 |
| | 9.94377E-05 | 9852.08 | 22329.7 | 2.2665 | 8.60995E-06 | 3688.95 | 8208.8 | 2.22524 |
| | 0.00264567 | 11221.3 | 23261.1 | 2.07293 | | | | |
| | | | | | 9.87598E-07 | 2822.43 | 808.95 | -3.489 |
| #DIV/0! | | | | | 1.70857E-15 | 3039.15 | 10375.1 | 3.4138 |
| #DIV/0! | | | | | | | | |
| | | | | | 8.91098E-08 | 18065 | 38951.6 | 2.15619 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 5.8851E-07 | 1781.23 | 524.2 | -3.39799 |
| | | | | | 1.55292E-10 | 1630.73 | 7600 | 4.66048 |
| | | | | | 2.54254E-12 | 1959.33 | 16436.9 | 8.38901 |
| | | | | | 7.74711E-07 | 6527.33 | 13726.8 | 2.10297 |
| 2.79999 | 1.20396E-09 | 2627.4 | 7378.98 | 2.80847 | | | | |
| 2.03759 | | | | | | | | |
| -3.183 | 2.19271E-10 | 2785.93 | 689.667 | -4.03952 | | | | |
| #DIV/0! | | | | | 6.78803E-05 | 1302.9 | #DIV/0! | #DIV/0! |
| | | | | | 0.000505121 | 1261.85 | 379.367 | -3.3262 |
| | | | | | 4.94778E-12 | 8832.73 | 22118.9 | 2.50419 |
| | | | | | 3.13974E-09 | 4649.2 | 12909 | 2.77661 |
| | | | | | 0.0132258 | 1358.13 | 467.225 | -2.90679 |
| | | | | | 0.00981216 | 1468.1 | 437.75 | -3.35374 |
| | | | | | 0.0200406 | 1586.83 | 484.4 | -3.27587 |
| | | | | | 0.0012338 | 1673.83 | #DIV/0! | #DIV/0! |
| | 0.00256599 | 1377.38 | 346.65 | -3.97339 | 4.14146E-05 | 5266.23 | 792.85 | -6.64215 |
| 7.15684 | 1.4068E-09 | #DIV/0! | 19866.3 | #DIV/0! | 2.09464E-09 | 3130.6 | 16885.8 | 5.39378 |
| | | | | | 0.000182783 | 2803.13 | 6611.35 | 2.35856 |
| 2.34092 | | | | | | | | |
| | 0.000493293 | 1109.05 | 473.867 | -2.34043 | 0.000646413 | 1393.95 | 630.6 | -2.21051 |
| | | | | | 0.00045172 | 1360.2 | 342.933 | -3.96637 |
| | | | | | 0.000766999 | 1116.3 | 494.35 | -2.25812 |
| | 3.56689E-07 | 9498.53 | 22770 | 2.39721 | 6.75306E-10 | 7875.98 | 24965.6 | 3.16984 |
| | 2.92965E-07 | 8224.73 | 20833.4 | 2.53302 | 5.27651E-10 | 6910.78 | 23890.4 | 3.45697 |
| | 4.63098E-09 | 5071.23 | 14509.8 | 2.8612 | 2.42016E-12 | 3893.88 | 15813.3 | 4.06106 |
| 2.7268 | | | | | 4.5542E-10 | #DIV/0! | 5159.95 | #DIV/0! |
| | | | | | 5.64098E-05 | 1918.97 | 708.225 | -2.70954 |
| | | | | | 2.18891E-06 | 1411.65 | 545.533 | -2.58765 |
| | 0.000288248 | 716.133 | 256.833 | -2.78832 | 5.23153E-05 | 748.5 | 299.833 | -2.49639 |
| | 0.00029962 | 1272.55 | 609.425 | -2.08812 | | | | |
| | 0.00687232 | 611.733 | #DIV/0! | #DIV/0! | | | | |
| | 2.29462E-06 | 858.567 | 161.9 | -5.30307 | | | | |
| | | | | | 7.88568E-05 | 1538.73 | 739.433 | -2.08096 |
| | 2.70016E-05 | 814.65 | 397.725 | -2.04827 | 7.43713E-07 | 1573.95 | 593.05 | -2.65399 |
| | 3.53656E-06 | 916.95 | 370.233 | -2.47668 | 6.34194E-07 | 2043.68 | 622.167 | -3.28477 |
| | 8.59832E-07 | 1302.4 | 318.933 | -4.08361 | 1.6689E-06 | 3373.73 | 895.25 | -3.76847 |
| | 0.00024298 | 1069.48 | 299.7 | -3.56849 | 0.00031433 | 1868.33 | 807.3 | -2.31429 |
| -2.3903 | 1.64003E-10 | 3029 | 964.967 | -3.13897 | 2.04804E-08 | 2982.45 | 1144.45 | -2.60601 |
| | | | | | 0.000125671 | 2447.03 | 799.9 | -3.05917 |
| | 0.000258483 | 1208.9 | 542.15 | -2.22983 | 1.34138E-05 | 2245.63 | 740.775 | -3.03145 |
| | 0.000271709 | 2121.98 | 875.7 | -2.42318 | 9.00287E-07 | 3809.83 | 1322.17 | -2.8815 |
| | | | | | 0.00126566 | 1476.2 | #DIV/0! | #DIV/0! |
| | 2.16572E-07 | 1129.05 | 228.2 | -4.94763 | 4.92702E-06 | 1684.98 | 577.75 | -2.91644 |
| | 0.000199352 | 5466.3 | 16520.6 | 3.02226 | 0.000071148 | 5907.03 | 18913.1 | 3.2018 |
| | 0.000372055 | 4810.1 | 13035.4 | 2.71001 | 2.59011E-05 | 4877.25 | 16427.6 | 3.3682 |
| | | | | | 0.0039347 | 1656.45 | 609.5 | -2.71772 |
| | 1.6389E-07 | 10799.8 | 24904 | 2.30597 | 1.126E-16 | 3918.9 | 23644.1 | 6.03334 |
| | 0.00270371 | 2451.25 | 1138.23 | -2.15357 | | | | |
| | | | | | 8.06828E-10 | 1611.73 | 3461.55 | 2.14773 |
| | 0.000196997 | 2482.3 | 858.167 | -2.89256 | | | | |
| | 0.00123261 | 3611.4 | 1745.7 | -2.06874 | 0.00128894 | 5989.48 | 2552.03 | -2.34695 |
| -2.0116 | | | | | | | | |
| -2.0487 | | | | | | | | |
| -2.0263 | | | | | | | | |
| | 1.06109E-05 | 1208.9 | 471.775 | -2.56245 | 5.36897E-06 | 2137.53 | 641.533 | -3.3319 |
| 2.14671 | 8.11059E-06 | 4381.05 | 9172.55 | 2.09369 | | | | |
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| | | | | | 1.62559E-06 | #DIV/0! | 2557.48 | #DIV/0! |
| | | | | | 0.0165819 | 1416.6 | 545.225 | -2.59819 |
| | | | | | 0.00164984 | 1297.93 | 580.7 | -2.23512 |

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|---------------------------------------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00468582 | 1205.73 | 353.367 | -3.41211 |
| | 5.36164E-05 | 3939.38 | 1929.33 | -2.04184 | | | | |
| 2.84404 | 9.34234E-13 | 6525.53 | 31538.2 | 4.83306 | 6.59277E-16 | 4690.9 | 31925.6 | 6.80586 |
| | | | | | 7.96183E-05 | 3886.33 | 577.625 | -6.72811 |
| | | | | | 6.38201E-07 | 1947.05 | 561.6 | -3.46697 |
| | 0.000561069 | 1148.4 | 269.975 | -4.25373 | 0.000768843 | 1602.78 | 576.8 | -2.77874 |
| | | | | | 4.06868E-06 | 11044.8 | 3476.55 | -3.17694 |
| | 4.46479E-05 | 1854.48 | #DIV/0! | #DIV/0! | 2.41329E-05 | 3371.05 | 1151.85 | -2.92664 |
| | 5.77311E-09 | 4303.28 | 1357.93 | -3.16901 | 4.91268E-08 | 5023.4 | 1747.7 | -2.87429 |
| | | | | | 2.22923E-07 | 4785.05 | 1882.68 | -2.54162 |
| | | | | | 2.12782E-05 | 6591.9 | 2717.9 | -2.42537 |
| | | | | | 0.00312546 | 1405.4 | 424.575 | -3.31013 |
| #DIV/0! | 4.70619E-05 | #DIV/0! | 2830.6 | #DIV/0! | | | | |
| 4.19489 | 5.79763E-09 | 1053.6 | 3247.18 | 3.08198 | 2.12684E-07 | 1879.97 | 4519.38 | 2.40397 |
| 4.00468 | 1.24366E-09 | 1539.83 | 8247.73 | 5.35627 | 1.14151E-08 | 1433.43 | 5481.23 | 3.82387 |
| | | | | | | | | |
| | | | | | 2.92338E-06 | 4720.13 | 886.7 | -5.32325 |
| | | | | | 0.000024512 | 4962.43 | 789.35 | -6.28672 |
| | | | | | 0.00106277 | 2785.17 | 551.4 | -5.05108 |
| | | | | | 7.17517E-09 | #DIV/0! | 3092.1 | #DIV/0! |
| -2.0424 | 8.10125E-11 | 7912.93 | 3610.9 | -2.1914 | 3.05677E-14 | 1702.6 | 470.733 | -3.61691 |
| -2.1238 | | | | | | | | |
| | 0.000164914 | 1332.08 | 530.6 | -2.51051 | 1.14136E-05 | 1987.03 | 857.9 | -2.31615 |
| | 0.0107139 | 774.067 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 3.6632E-07 | 925.95 | 1900.85 | 2.05286 |
| | | | | | 1.2774E-06 | 62198.7 | 132043 | 2.12292 |
| | | | | | 1.2462E-07 | 35091.5 | 78306.3 | 2.23149 |
| | | | | | 8.21951E-10 | 37124.4 | 103319 | 2.78305 |
| -2.0231 | 6.3919E-08 | 5033.43 | 2077.83 | -2.42245 | | | | |
| | | | | | 0.000944462 | #DIV/0! | 1990.18 | #DIV/0! |
| | 9.64575E-05 | 1339.87 | 286.65 | -4.67423 | 0.000077944 | 2733.33 | 759.225 | -3.60015 |
| | | | | | 0.000440416 | 1054.23 | 279.6 | -3.77048 |
| | | | | | 2.29967E-09 | 3083.53 | 20864.3 | 6.76638 |
| | | | | | 0.0185617 | #DIV/0! | 1000.8 | #DIV/0! |
| | | | | | 1.55543E-13 | 8462.9 | 29965.6 | 3.54081 |
| | | | | | 0.00665018 | 1280.68 | 340.25 | -3.76392 |
| | | | | | 6.30642E-05 | 4432.58 | 2128.85 | -2.08215 |
| | 9.71193E-07 | 10344.4 | 23524.6 | 2.27414 | 1.81024E-09 | 7407.25 | 20734.9 | 2.79926 |
| | 1.70085E-06 | 12621.8 | 25308.5 | 2.00514 | 2.59082E-12 | 7540.18 | 24846.5 | 3.29521 |
| | | | | | 2.1685E-07 | 2615.8 | 872.025 | -2.99968 |
| | | | | | 7.27618E-05 | 1008.58 | 498.225 | -2.02434 |
| | | | | | 4.27427E-08 | 705.8 | #DIV/0! | #DIV/0! |
| | | | | | 0.000109284 | 2605.4 | 664.733 | -3.91947 |
| | | | | | 2.23453E-06 | 2292.58 | 359.975 | -6.36871 |
| | | | | | 0.00275467 | 1021.63 | #DIV/0! | #DIV/0! |
| 3.54388 | 1.95737E-14 | 13272.4 | 63838.5 | 4.80988 | 5.62001E-17 | 13431 | 80647.5 | 6.00459 |
| 3366 /// 729423 /// 730246 | | | | | 1.39606E-06 | 28982.2 | 10641.7 | -2.72347 |
| 3732 /// 729102 /// 729366 /// 730246 | | | | | 3.12646E-07 | 3050.8 | 1310.3 | -2.32832 |
| | | | | | 0.000330903 | 1333.73 | 592.65 | -2.25044 |
| | | | | | 0.000998202 | 990.8 | 245.65 | -4.03338 |
| | | | | | 1.61468E-10 | 3182.33 | 8617.23 | 2.70784 |
| | | | | | 0.000449231 | #DIV/0! | 1854.15 | #DIV/0! |
| -2.2359 | | | | | | | | |
| | 5.28549E-06 | 3390.5 | 1465.93 | -2.31287 | 1.37247E-08 | 7913.73 | 2813.25 | -2.81302 |
| | | | | | 3.90968E-09 | 27978.3 | 61883.7 | 2.21185 |
| | 2.69532E-07 | 5258.33 | 12307.8 | 2.34062 | 6.67928E-12 | 2454 | 9384 | 3.82396 |
| | 2.17384E-05 | 1999.65 | 808.75 | -2.47252 | | | | |
| -2.0939 | 3.12819E-08 | 8108.4 | 3817.23 | -2.12416 | | | | |
| 2.04359 | 4.64308E-10 | 1255.6 | 5295.9 | 4.21782 | 1.04231E-10 | 1536.07 | 6119.58 | 3.98393 |
| #DIV/0! | 2.15071E-07 | #DIV/0! | 3300.53 | #DIV/0! | 2.72787E-07 | #DIV/0! | 3557.18 | #DIV/0! |

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| | 6.03636E-05 | #DIV/0! | 1559.08 | #DIV/0! | 0.00480082 | #DIV/0! | 2322.88 | #DIV/0! |
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| | 0.000304511 | 562.1 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.000800779 | 1278.93 | 384.6 | -3.32536 |
| | | | | | 0.000259984 | 1420.13 | 476.367 | -2.98116 |
| | | | | | 1.91737E-05 | 1616.58 | 484.067 | -3.33957 |
| | 0.000891823 | 929.967 | #DIV/0! | #DIV/0! | 0.00290362 | 2905.35 | 880.2 | -3.30078 |
| | 0.00648402 | 1232.73 | 474.175 | -2.59973 | 5.73554E-06 | 1181.45 | 391.8 | -3.01544 |
| | | | | | 3.24641E-05 | 1368.73 | #DIV/0! | #DIV/0! |
| | | | | | 6.79899E-07 | 1534.18 | 499.3 | -3.07265 |
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| | | | | | 7.17811E-10 | 957.5 | 3632.35 | 3.79358 |
| | 8.46374E-08 | 1301.8 | 565.467 | -2.30217 | | | | |
| -2.3828 | | | | | 0.00724435 | 3332.75 | 819.6 | -4.06631 |
| | | | | | 0.0156717 | 1542.87 | 750.65 | -2.05537 |
| | | | | | 6.52194E-07 | 1655.83 | 772.45 | -2.1436 |
| -2.888 | 3.20285E-08 | 5291.93 | 2243.9 | -2.35836 | | | | |
| | 0.000136389 | 2002.78 | 935.075 | -2.14183 | | | | |
| | | | | | 0.0157137 | 678.5 | 329.7 | -2.05793 |
| -2.2343 | | | | | | | | |
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| -2.37 | 2.22826E-05 | 1022.5 | 489.6 | -2.08844 | | | | |
| | 1.94405E-08 | 560.5 | 1517.35 | 2.70714 | | | | |
| | | | | | 0.0100222 | 858.3 | #DIV/0! | #DIV/0! |
| | 0.000379115 | 20546.6 | 5195.15 | -3.95495 | 9.26695E-06 | 9878.73 | 1750.33 | -5.64394 |
| | 1.45146E-06 | 2730.03 | 495.3 | -5.51186 | 8.36442E-10 | 2898.73 | #DIV/0! | #DIV/0! |
| | | | | | 5.11414E-10 | 11968 | 29312.7 | 2.44926 |
| 2.03401 | 0.000209301 | 1509.77 | 3857.68 | 2.55515 | 9.07823E-05 | #DIV/0! | 3636.5 | #DIV/0! |
| | 3.5393E-06 | 2927.85 | 9649.33 | 3.2957 | | | | |
| | 2.03954E-09 | 15752 | 34751.6 | 2.20617 | | | | |
| | 0.00492469 | 1153.05 | 543 | -2.12348 | 5.22091E-17 | 8140.43 | 34676.6 | 4.2598 |
| | | | | | 3.52726E-06 | 1031.1 | 242.8 | -4.24671 |
| | | | | | 0.00248469 | 1387.7 | 302.75 | -4.58365 |
| | | | | | 0.000175602 | 1565.68 | 457.925 | -3.41906 |
| | | | | | 0.00305037 | 1204.37 | 350.467 | -3.43647 |
| | | | | | 1.00947E-05 | 944.35 | #DIV/0! | #DIV/0! |
| -5.7826 | 6.86514E-14 | 5548.48 | 703.525 | -7.88668 | 2.96566E-10 | 2850.2 | 7834.43 | 2.74873 |
| -7.3017 | 7.11993E-11 | 6291.48 | 737.175 | -8.53457 | 5.39185E-11 | 2606.7 | 589.575 | -4.42132 |
| | | | | | 4.55322E-06 | 2236.13 | 702.2 | -3.18446 |
| | | | | | 0.0110825 | 869.725 | 231.6 | -3.75529 |
| | | | | | 6.04882E-05 | 2269.28 | 862.575 | -2.63081 |
| | | | | | 7.72566E-19 | 5837.73 | 24378.1 | 4.17595 |
| | | | | | 1.13216E-11 | 2746.4 | 835.275 | -3.28802 |
| | 3.5116E-07 | 1130.18 | 338.5 | -3.33877 | 6.42073E-08 | 2460.73 | 676.6 | -3.6369 |
| | | | | | 0.000825123 | #DIV/0! | 1492.15 | #DIV/0! |
| #DIV/0! | 9.0259E-10 | #DIV/0! | 86414.6 | #DIV/0! | 3.22873E-12 | 13750.4 | 116725 | 8.48882 |
| 121.923 | 7.84424E-17 | 1177.13 | 76153.8 | 64.6947 | 1.24633E-15 | 6726.8 | 96765.8 | 14.3851 |
| -2.2388 | | | | | | | | |
| -2.0292 | | | | | | | | |
| | | | | | 8.72183E-09 | 3900.28 | 11692.7 | 2.99791 |
| | 8.16946E-12 | 1743.58 | 7308.38 | 4.1916 | 1.75349E-13 | 989.65 | 4860.35 | 4.91118 |
| | | | | | 0.000436028 | #DIV/0! | 1795.78 | #DIV/0! |
| | | | | | 0.000277196 | 1795.3 | 4626.2 | 2.57684 |
| | 1.62736E-08 | 1671.07 | #DIV/0! | #DIV/0! | 3.77536E-13 | 2827.15 | #DIV/0! | #DIV/0! |
| | | | | | 1.13127E-07 | 2883.25 | 6556.98 | 2.27416 |
| -2.1357 | | | | | | | | |
| -3.876 | 1.76992E-06 | 4441.33 | 1315.53 | -3.37609 | | | | |
| | | | | | 0.000175815 | 2724.33 | 5959.35 | 2.18746 |
| | | | | | 2.15049E-08 | 10637.6 | 30416 | 2.8593 |

| | | | | | | | |
|---------|-------------|---------|---------|-------------|-------------|---------|---------|
| | | | | 3.65495E-09 | 2760.65 | 9740.45 | 3.52832 |
| | | | | 9.08143E-12 | 2151.33 | 7236.23 | 3.36361 |
| | | | | 2.42104E-11 | 1524.9 | 8100.73 | 5.3123 |
| | | | | 7.43524E-05 | #DIV/0! | 3701.1 | #DIV/0! |
| | 2.35259E-05 | 1020.98 | 392.625 | -2.60038 | | | |
| | 2.23157E-05 | 9066.48 | 4178.78 | -2.16965 | | | |
| | | | | 7.62875E-06 | #DIV/0! | 1945.35 | #DIV/0! |
| | | | | 0.00632451 | 627.333 | #DIV/0! | #DIV/0! |
| | 5.51493E-05 | 3053.45 | 1358.23 | -2.24812 | | | |
| | | | | 3.51038E-12 | 5403.13 | 24510.3 | 4.53631 |
| | | | | 3.75935E-12 | 9827.73 | 45508.1 | 4.63059 |
| | 1.01183E-06 | 2468.4 | 5563.43 | 2.25386 | 4.06486E-10 | 2087.25 | 6443 |
| | | | | | 0.0101002 | 1506.8 | 677.725 |
| | | | | | 6.95776E-12 | 1506.25 | 4307.68 |
| | | | | | 1.03889E-07 | 2763.23 | 6597.18 |
| | 1.13103E-08 | 2064.63 | 5276.88 | 2.55585 | 2.05808E-12 | 1306.37 | 4742.93 |
| 8.98231 | 3.07563E-15 | 5932.8 | 67650.3 | 11.4028 | 1.89418E-16 | 7532.65 | 83185.5 |
| | | | | | 7.34117E-06 | 37735 | 83337.6 |
| | | | | | 0.0166083 | 4520.4 | 918.7 |
| | 0.00319903 | 763.875 | 301.6 | -2.53274 | 6.97609E-05 | 1432.98 | 415.3 |
| | | | | | 0.00596056 | 1065 | 6350.75 |
| | 0.00077251 | #DIV/0! | 28021.9 | #DIV/0! | 0.00240066 | #DIV/0! | 26702.2 |
| | 0.0105051 | #DIV/0! | 18407.1 | #DIV/0! | | | |
| | | | | | 5.30081E-06 | 35795.9 | 80553.8 |
| | 2.39866E-05 | 5392.23 | 12279.8 | 2.27732 | | | |
| | | | | | 3.06175E-07 | 74339.6 | 154029 |
| | | | | | 7.99663E-08 | 53383.6 | 133771 |
| | | | | | 1.55138E-09 | 23460 | 88623.5 |
| | 0.000554508 | 701.9 | 269.025 | -2.60905 | 3.08367E-05 | 1598.7 | 438.467 |
| -2.9346 | 2.23275E-05 | 4407.45 | 1339.83 | -3.28957 | | | |
| | | | | | 8.16493E-06 | #DIV/0! | 5276.5 |
| | | | | | 0.00137238 | #DIV/0! | 1692.73 |
| | 3.37234E-06 | 2934.35 | 7223.43 | 2.46168 | 8.50571E-08 | 1747.43 | 5230.15 |
| | | | | | 0.00442172 | #DIV/0! | 2191.98 |
| | 2.13289E-06 | 3250.5 | 6594.63 | 2.0288 | 2.85329E-09 | 2513.65 | 6293.8 |
| | | | | | 5.21504E-13 | 2551.8 | 8618.6 |
| 2.29915 | 2.74991E-05 | 1516.85 | 7678.53 | 5.06215 | 0.000794255 | #DIV/0! | 4487.55 |
| | | | | | 0.000135421 | 2415.7 | 1048.4 |
| | | | | | 1.12265E-07 | #DIV/0! | 5609.85 |
| | | | | | 0.00877207 | 1128.1 | 398.3 |
| | | | | | 0.00394827 | 1086.43 | 412.2 |
| | 2.35272E-06 | 991.95 | 2136.05 | 2.15338 | | | |
| | 0.000251479 | 987.25 | 335.6 | -2.94175 | 0.00120645 | 1291.38 | 512.133 |
| | | | | | 0.000293688 | 3231.83 | 736.325 |
| | 2.98677E-07 | 21989.5 | 7355.28 | -2.98962 | | | |
| | 3.22495E-06 | 2210.65 | 895.3 | -2.46917 | 6.81402E-05 | 1960.3 | 967.625 |
| -2.5702 | 3.37925E-05 | 3221.45 | 1498.78 | -2.14939 | 5.79541E-06 | 2767.35 | 1077.15 |
| | | | | | 0.00590603 | 1536.68 | 266.95 |
| | 0.00155964 | 2801.43 | 1002.9 | -2.79333 | 0.00254847 | 3776.78 | 1046.65 |
| | | | | | 5.49199E-07 | 31948.7 | 11416.2 |
| | 9.65594E-07 | 18500.4 | 37496.1 | 2.02677 | 2.56166E-14 | 8077.98 | 38007.9 |
| | | | | | 9.61457E-20 | 8890.6 | 42717.3 |
| | 8.32858E-08 | 20716.1 | 42962.6 | 2.07387 | 2.29086E-16 | 8394.13 | 42523.3 |
| | 3.63141E-07 | 17224.5 | 40961.3 | 2.37808 | 5.34135E-15 | 6845.2 | 35228.4 |
| | 2.9877E-12 | 11515.6 | 23564 | 2.04627 | 2.93431E-18 | 8245.83 | 24589.4 |
| | 5.40516E-14 | 7375.55 | 17839 | 2.41866 | 2.9174E-19 | 4700.68 | 16540.9 |
| | | | | | 1.52915E-08 | 44466.1 | 18044.1 |
| | | | | | 1.20209E-05 | 3143.03 | 6823.38 |
| | 8.08747E-07 | 1110.45 | 473.533 | -2.34503 | 8.98656E-07 | 1658.35 | 487.9 |
| | | | | | 3.243E-08 | 6537.5 | 14692 |
| | 7.36107E-07 | 6657.45 | 13546.6 | 2.03481 | 1.92754E-07 | 5010.83 | 10531.3 |
| #DIV/0! | | | | | | | |
| | | | | | 9.29063E-09 | 3571.5 | 7712.45 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 1.26697E-21 | 7022.25 | 35708.1 | 5.08499 |
| | | | | | 7.22575E-08 | 4458.88 | 9433.23 | 2.11561 |
| | | | | | 1.26981E-07 | 4760.48 | 11688.8 | 2.45539 |
| | | | | | 5.27365E-07 | 4645.83 | 11569.3 | 2.49026 |
| | | | | | 2.92816E-11 | 24223.6 | 54473.7 | 2.24879 |
| | | | | | 4.02988E-06 | 1549.68 | 420.375 | -3.68641 |
| | | | | | 3.15368E-05 | 1677.53 | 715.433 | -2.34478 |
| 2.13778 | 7.597E-08 | 1574.2 | 4329.15 | 2.75006 | 4.43074E-07 | 2133.88 | 5294.3 | 2.48107 |
| -2.0358 | | | | | | | | |
| | 9.08256E-05 | 1602.55 | 545.55 | -2.93749 | 5.30074E-08 | 3785.93 | 899.15 | -4.21056 |
| | 2.95437E-05 | 663.467 | 2333.48 | 3.51709 | 3.22078E-07 | #DIV/0! | 1885.65 | #DIV/0! |
| | | | | | 0.0010468 | #DIV/0! | 1704.43 | #DIV/0! |
| | | | | | 0.000641157 | 964.6 | 431.8 | -2.2339 |
| | | | | | 1.87371E-05 | 3291.88 | 1552.25 | -2.12071 |
| | | | | | 0.0218769 | #DIV/0! | 1322.55 | #DIV/0! |
| 2.0092 | | | | | | | | |
| | | | | | 0.000205368 | 1515.88 | 535.875 | -2.82878 |
| | | | | | 0.00251141 | 1402.28 | 548.767 | -2.55532 |
| | | | | | 5.20376E-05 | 1116.77 | #DIV/0! | #DIV/0! |
| | | | | | 0.00118449 | 1568.6 | 543.767 | -2.88469 |
| | | | | | 2.53631E-06 | 4492.47 | #DIV/0! | #DIV/0! |
| | | | | | 0.000074161 | 2192.83 | #DIV/0! | #DIV/0! |
| | | | | | 7.79997E-10 | 2636.78 | 799.325 | -3.29875 |
| 5.46853 | 8.80583E-10 | 3665.83 | 41997.2 | 11.4564 | 4.30352E-13 | 3455.83 | 34702.3 | 10.0417 |
| 3.17801 | 1.62476E-12 | 7479.55 | 75322.4 | 10.0704 | 3.52656E-15 | 6823.25 | 87184.7 | 12.7776 |
| -7.1108 | 4.37656E-05 | 2048.4 | 192 | -10.6688 | 9.57777E-06 | 3608.2 | 401.967 | -8.97637 |
| #DIV/0! | 8.28749E-06 | 2740.1 | #DIV/0! | #DIV/0! | 0.000711689 | 3593.33 | 645.9 | -5.56328 |
| -5.955 | | | | | 0.000813634 | 2794.65 | 537.55 | -5.19887 |
| 2.61774 | 2.74208E-09 | 1288.03 | 4493.38 | 3.48858 | 0.000020779 | 1801.68 | 3752.53 | 2.0828 |
| | | | | | 0.000230179 | #DIV/0! | 4229.08 | #DIV/0! |
| | | | | | 0.0189194 | #DIV/0! | 1674.97 | #DIV/0! |
| | 4.24661E-06 | 3666.15 | 7782 | 2.12266 | | | | |
| 2.82103 | 4.68183E-11 | 1058.65 | 5762.6 | 5.44335 | 8.05122E-08 | 1447.1 | 4457.9 | 3.08057 |
| | 0.000630716 | 2529.75 | 1025 | -2.46805 | | | | |
| | 0.00120132 | 828.05 | 406.95 | -2.03477 | 0.000354798 | 1620.88 | 615.3 | -2.63428 |
| | | | | | 3.73716E-05 | 2570.23 | 852.55 | -3.01475 |
| | | | | | 2.95253E-05 | 534.9 | 1096.83 | 2.05052 |
| | 1.27448E-09 | 2033.5 | 836.975 | -2.42958 | | | | |
| | 5.94344E-08 | 1547.73 | 247.225 | -6.26039 | 0.000110245 | 1668.85 | 503.9 | -3.31187 |
| | 0.000207484 | 663.425 | 233.167 | -2.84528 | 0.00043832 | 1173.55 | 462.575 | -2.53699 |
| | | | | | 6.40167E-08 | 1964.5 | 4707.25 | 2.39616 |
| | | | | | 1.52349E-07 | 720.8 | 1715.93 | 2.38058 |
| | | | | | 2.62365E-08 | 1429.83 | 3777.1 | 2.64165 |
| | | | | | 1.35194E-06 | 2976.95 | 1216.7 | -2.44674 |
| | 0.000711507 | 1145.67 | 387.1 | -2.95961 | | | | |
| | | | | | 1.1285E-06 | 13725.9 | 33284.7 | 2.42495 |
| 4.40105 | 8.40833E-12 | 8535.83 | 55602.9 | 6.51406 | 2.18546E-16 | 6184.88 | 90058.3 | 14.5611 |
| | | | | | 3.27183E-06 | 2250.65 | 858.675 | -2.62107 |
| | | | | | 0.0214524 | 1026.33 | 252.55 | -4.06388 |
| 2.99044 | | | | | 3.77318E-09 | 4271.05 | 48753 | 11.4148 |
| | 4.94699E-08 | 1368.73 | 3318.15 | 2.42426 | 3.97115E-09 | 1295.13 | 3229.15 | 2.4933 |
| -2.4803 | 4.10372E-09 | 14894.5 | 2626.33 | -5.67124 | 1.06502E-10 | 11018.7 | 1611.48 | -6.83765 |
| -3.2733 | | | | | 1.31781E-08 | 4978.4 | 765.125 | -6.50665 |
| | | | | | 0.000163183 | 1252 | 454.967 | -2.75185 |
| | | | | | 4.95796E-07 | 2294.98 | 5911.05 | 2.57565 |
| 2.0669 | 2.90173E-09 | 10429.9 | 38684.4 | 3.70898 | 3.90865E-15 | 8854.2 | 72916.7 | 8.23527 |
| | | | | | 2.59022E-08 | 3896.53 | 15462.3 | 3.96823 |
| | | | | | 2.42863E-08 | 6195.68 | 25301.4 | 4.08372 |
| -2.9698 | 4.47512E-11 | 8838.15 | 2340.88 | -3.77558 | 5.77537E-15 | 12021.2 | 1968.1 | -6.108 |
| -2.7535 | 4.73903E-11 | 7005.6 | 1699.63 | -4.12185 | 1.58647E-14 | 9782.98 | 1698.55 | -5.7596 |
| -2.6205 | 5.43761E-10 | 8499.8 | 2566.15 | -3.31228 | 2.3743E-14 | 12416.1 | 2371.3 | -5.236 |
| -2.8007 | 1.93918E-08 | 6493.13 | 2054.08 | -3.16109 | 3.21168E-11 | 8635.68 | 2104.93 | -4.1026 |
| | | | | | 3.91386E-06 | 2566.48 | 8591.5 | 3.34759 |

| | | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|--|
| | | | | | 1.96977E-13 | 8403.3 | 34608 | 4.11839 | |
| -2.8503 | 6.3604E-10 | 2776.33 | 937.475 | -2.96149 | 8.82788E-09 | 4287.83 | 1640.45 | -2.61381 | |
| -3.1242 | 1.7994E-08 | 4842.08 | 1467.88 | -3.2987 | 5.52593E-06 | 5512.75 | 2440.4 | -2.25895 | |
| | 0.000117976 | 1243.75 | 500.35 | -2.48576 | | | | | |
| | | | | | 0.00003447 | 1541.73 | 310.867 | -4.95944 | |
| | | | | | 2.13568E-07 | 2840.13 | 5773.55 | 2.03285 | |
| -2.4381 | 1.54308E-08 | 1565.75 | 601.225 | -2.60427 | 2.33357E-07 | 1603.18 | 717.65 | -2.23392 | |
| -2.5382 | 1.28046E-07 | 12518.3 | 4520.88 | -2.769 | | | | | |
| | 0.000911759 | 4935.5 | 2128.53 | -2.31874 | | | | | |
| -2.4115 | 1.23689E-07 | 2394.68 | 903.75 | -2.64971 | | | | | |
| | 0.000484382 | 672.8 | 267.067 | -2.51922 | | | | | |
| | | | | | 9.83825E-05 | 1273.8 | 538.2 | -2.36678 | |
| | | | | | 0.000133318 | 1883.68 | 663.875 | -2.83739 | |
| | | | | | 6.00497E-05 | 1705.43 | 3688.78 | 2.16297 | |
| -2.2782 | 1.64382E-08 | 11351.9 | 3515.98 | -3.22866 | 4.45155E-06 | 6460.48 | 3010.1 | -2.14627 | |
| | 0.000717011 | 1600.2 | 3757.03 | 2.34785 | 6.89433E-07 | #DIV/0! | 9421.88 | #DIV/0! | |
| | | | | | 5.68659E-07 | 1759.78 | 5357.08 | 3.04418 | |
| | | | | | 0.00162647 | 3330.2 | 1561.93 | -2.13211 | |
| | 0.00247969 | 728.267 | #DIV/0! | #DIV/0! | | | | | |
| | 0.00151903 | 604.567 | #DIV/0! | #DIV/0! | | | | | |
| 3.58778 | 9.21907E-10 | 2826.18 | 13624.9 | 4.82095 | 2.86262E-09 | 3491.1 | 8821.43 | 2.52683 | |
| 3.78575 | 1.96377E-12 | 4597.4 | 26749.7 | 5.81844 | 3.90457E-12 | 4523.33 | 18313.6 | 4.0487 | |
| 3.1257 | 1.16343E-06 | 1513.13 | 4833.43 | 3.19432 | | | | | |
| | 4.17418E-06 | 60202.5 | 26429 | -2.2779 | | | | | |
| | 1.90181E-06 | 739.825 | 213.25 | -3.46928 | | | | | |
| | 1.82764E-05 | 935.1 | 317.8 | -2.94242 | 6.05223E-08 | 1967.43 | 517.55 | -3.80142 | |
| | 0.0140122 | #DIV/0! | 843.4 | #DIV/0! | | | | | |
| | | | | | 3.88051E-05 | 2872.65 | 1215.6 | -2.36315 | |
| -2.5583 | 0.009508 | 56572.3 | 28095.7 | -2.01356 | | | | | |
| | | | | | 0.0200985 | 909.8 | 202.75 | -4.4873 | |
| | | | | | 0.00129442 | 2034.35 | 525.033 | -3.87471 | |
| | | | | | 0.000126815 | 1317.47 | 551.867 | -2.38729 | |
| | 0.000531642 | 751.8 | #DIV/0! | #DIV/0! | | | | | |
| | 9.60142E-05 | 1108.47 | 320.6 | -3.45748 | | | | | |
| | 5.27223E-05 | 1207.38 | 488.8 | -2.47008 | | | | | |
| | 3.52701E-05 | 842.775 | #DIV/0! | #DIV/0! | | | | | |
| | 1.91188E-05 | 1909.95 | 880.625 | -2.16886 | 6.00504E-08 | 2709.55 | 1045.78 | -2.59095 | |
| | 1.39785E-07 | 3986.48 | 8878.3 | 2.22711 | 3.87825E-11 | 2949.53 | 8910.48 | 3.02099 | |
| | | | | | 8.74719E-05 | 5248.45 | 11253.1 | 2.14407 | |
| | | | | | 3.86836E-07 | 1408.9 | 3430.18 | 2.43465 | |
| | | | | | 6.06868E-16 | 2642.5 | 11542.1 | 4.36786 | |
| | | | | | 1.02111E-15 | 4809 | 22714.3 | 4.72328 | |
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| | | | | | 3.44768E-12 | 10220.5 | 66379.9 | 6.49477 | |
| | 0.000569141 | 1618.1 | 549.275 | -2.94588 | 0.000247658 | 2996.45 | 884.475 | -3.38783 | |
| | 1.89535E-09 | 14556.7 | 51728.9 | 3.55361 | 3.23237E-08 | 12014.2 | 35709.8 | 2.97229 | |
| | 0.000141687 | 39768.5 | 98979.9 | 2.4889 | 2.77407E-11 | 16892.5 | 120614 | 7.14011 | |
| | 0.000134934 | 2898.08 | 707.933 | -4.09371 | 3.30284E-06 | 2372.03 | 812.3 | -2.92013 | |
| | 0.000223405 | 4694.53 | 755.5 | -6.2138 | 5.53387E-07 | 4496.53 | 485.75 | -9.25687 | |
| | 0.000014967 | 1618.18 | 246.15 | -6.57394 | 8.24716E-07 | 1822.98 | 413 | -4.41398 | |
| | | | | | 1.01503E-07 | 4096.7 | 545.2 | -7.51412 | |
| | | | | | 8.08676E-09 | 5303.13 | 843.3 | -6.28854 | |
| | 0.000194086 | 43845.9 | 7042.75 | -6.22567 | 1.40227E-08 | 16494.2 | 1708.7 | -9.65308 | |
| | 3.98602E-11 | 69169.9 | 16955.4 | -4.07953 | 1.45077E-14 | 24545.9 | 4035.58 | -6.08238 | |
| | 6.23716E-05 | 21868 | 7072.05 | -3.09217 | 3.95771E-07 | 7986.93 | 1696.43 | -4.70809 | |
| | 1.9708E-08 | 92579.2 | 25932.8 | -3.56996 | 4.09453E-13 | 55546.5 | 9016.23 | -6.16073 | |
| | 2.23358E-05 | 33042.9 | 10753.7 | -3.0727 | 5.58677E-08 | 18886.2 | 4223.83 | -4.47134 | |
| | 0.000185211 | 8570.7 | 2909.75 | -2.94551 | 1.79007E-09 | 6707.15 | 859.85 | -7.80037 | |
| | 1.81241E-05 | 5962.83 | 1691.27 | -3.52566 | 4.95405E-08 | 4165 | #DIV/0! | #DIV/0! | |
| | | | | | 0.000908811 | 2525.03 | 618.8 | -4.08052 | |
| | 0.000845357 | 937.725 | 292.6 | -3.2048 | 0.000370076 | 2251.65 | 497.425 | -4.52661 | |
| | | | | | 0.00076841 | 2759.27 | 884.725 | -3.11878 | |
| | | | | | 0.00185515 | 3420.78 | 962.6 | -3.55368 | |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 0.000435832 | 1576.15 | 427.575 | -3.68625 | 0.00324571 | 2428.28 | 719.125 | -3.37671 |
| | | | | | 4.1644E-11 | 1745.98 | 4578.75 | 2.62246 |
| | | | | | 0.000206554 | #DIV/0! | 2940.37 | #DIV/0! |
| | | | | | 0.00362344 | 1036.68 | 438.167 | -2.36594 |
| | | | | | 1.08613E-11 | 32960.8 | 84617.7 | 2.56722 |
| | | | | | 3.61632E-17 | 13436.5 | 55793.7 | 4.15239 |
| | | | | | 2.09496E-08 | 1974.6 | 8510.65 | 4.31006 |
| 2.22214 | 3.23659E-11 | 18484.4 | 101028 | 5.46556 | 7.41834E-13 | 15709.6 | 87600.9 | 5.57626 |
| | | | | | 1.18127E-11 | 5900.63 | 24435.3 | 4.14113 |
| | | | | | 4.36645E-09 | 3943.75 | 16668.9 | 4.22667 |
| | | | | | 1.00279E-05 | 2652.9 | 1155.7 | -2.29549 |
| | 2.27047E-08 | 1041.48 | 363.475 | -2.86533 | 2.29973E-07 | 1812.13 | 642.2 | -2.82175 |
| | | | | | 0.00904148 | 1617.43 | #DIV/0! | #DIV/0! |
| | | | | | 3.57846E-05 | 2513.53 | 623.6 | -4.03067 |
| | 0.00546765 | 850.15 | 336.6 | -2.5257 | 1.62323E-06 | 2381.78 | 575.3 | -4.14006 |
| | 0.00176299 | 609.525 | 251.8 | -2.42067 | 0.0157123 | 1259.68 | 558.55 | -2.25526 |
| | 0.00487005 | 755.433 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 8.7813E-08 | 5904.78 | 18135.4 | 3.07132 |
| | | | | | 1.88388E-11 | 7501.6 | 27604 | 3.67974 |
| | | | | | 0.00232197 | 1083.23 | #DIV/0! | #DIV/0! |
| | 7.91978E-08 | 904.625 | 182.5 | -4.95685 | 9.01476E-09 | 1732.8 | 381.5 | -4.54207 |
| | | | | | 0.000162144 | 1522.4 | 696.45 | -2.18594 |
| | 1.33136E-05 | 2575.2 | 1206.15 | -2.13506 | 1.63006E-08 | 6201.33 | 1921.28 | -3.22771 |
| | | | | | 1.97379E-07 | 4056.8 | 1715.05 | -2.36541 |
| | | | | | 0.000891085 | 2805.23 | #DIV/0! | #DIV/0! |
| | | | | | 0.00069639 | 8064.03 | 3061.1 | -2.63436 |
| | | | | | 0.000500379 | 7368.63 | 3267.4 | -2.2552 |
| | | | | | 0.00024224 | 2082.2 | #DIV/0! | #DIV/0! |
| | | | | | 5.8441E-07 | 3083.43 | 957.9 | -3.21895 |
| -4.1998 | 7.77061E-05 | 891.1 | 299.4 | -2.97629 | 1.62604E-05 | 1232.27 | 381.5 | -3.23006 |
| | 0.00581881 | 1033.9 | #DIV/0! | #DIV/0! | | | | |
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| | | | | | 0.00205822 | 1246.73 | #DIV/0! | #DIV/0! |
| | | | | | 1.43821E-09 | 1826.28 | 4135.5 | 2.26445 |
| | | | | | 1.11245E-08 | 5139.23 | 10485.5 | 2.04028 |
| | 3.4722E-09 | 1422.78 | 494.15 | -2.87924 | 2.09249E-09 | 1729.13 | 626.85 | -2.75844 |
| -2.0756 | | | | | 0.000282454 | 2379.95 | 5106.8 | 2.14576 |
| -4.2427 | 1.22267E-07 | 912.475 | 296.175 | -3.08086 | | | | |
| -2.8486 | 5.00798E-05 | 1835.68 | 637.85 | -2.87791 | | | | |
| | 1.20119E-05 | 593.933 | 207.725 | -2.85923 | | | | |
| | 0.00527233 | 991.75 | 340.8 | -2.91006 | | | | |
| | | | | | 1.64074E-14 | 4880.13 | 20811.1 | 4.26446 |
| -2.7941 | 3.46896E-08 | 4214.73 | 950.25 | -4.43539 | | | | |
| | | | | | 0.00538792 | 1065.75 | 335.675 | -3.17495 |
| | 0.0108994 | 2767.78 | 1196.7 | -2.31284 | | | | |
| 8.19715 | 2.742E-10 | 2217.03 | 38862.2 | 17.529 | 2.75875E-13 | 3241.75 | 41661.8 | 12.8516 |
| 2.9524 | | | | | | | | |
| 8.85175 | | | | | | | | |
| 2.43291 | | | | | | | | |
| 2.76091 | | | | | | | | |
| | | | | | 7.92783E-11 | 2397.5 | 32711.1 | 13.6438 |
| | 0.0030717 | 1496.58 | 4293.35 | 2.86878 | 3.84379E-10 | #DIV/0! | 5050.63 | #DIV/0! |
| | | | | | 2.10614E-13 | 3080.93 | 17990.5 | 5.83931 |
| | 1.02029E-06 | 1675.98 | 14713.4 | 8.77898 | 1.31867E-08 | 1243.2 | 6923.23 | 5.56887 |
| 2.00577 | 9.55255E-12 | 4575.2 | 23378 | 5.10972 | 2.38435E-14 | 3154.43 | 18136.3 | 5.74945 |
| 2.09233 | | | | | | | | |
| 4.51038 | | | | | | | | |
| | 0.0129067 | 1368.73 | 3325.53 | 2.42965 | | | | |
| 2.98542 | 3.5005E-06 | 6487.78 | 25804.3 | 3.97737 | | | | |
| | | | | | 0.00029617 | 2002.23 | #DIV/0! | #DIV/0! |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 7.09616E-08 | 5816.83 | 1148.28 | -5.06571 |
| | 3.99418E-12 | 17008.8 | 47922.6 | 2.81753 | 2.19977E-18 | 9825.28 | 49668.5 | 5.05517 |
| | | | | | 2.31465E-05 | #DIV/0! | 1538.1 | #DIV/0! |
| | | | | | 1.72455E-10 | 10389 | 1234.98 | -8.4123 |
| | 0.000428894 | 3317.8 | 1200.3 | -2.76414 | 6.25387E-08 | 7842.7 | 1407.2 | -5.57327 |
| | | | | | 1.26154E-09 | 43232.2 | 229718 | 5.31359 |
| | 0.00547591 | 980.867 | 343.75 | -2.85343 | | | | |
| | 2.34738E-05 | 1714.4 | 3475.63 | 2.02731 | | | | |
| | | | | | 1.59753E-06 | 2054.7 | 574.9 | -3.57401 |
| | | | | | 0.00363894 | 1564.7 | 290.4 | -5.38809 |
| -7.6694 | 5.26401E-11 | 8229.78 | 967.075 | -8.50997 | 3.55089E-10 | 3717.88 | #DIV/0! | #DIV/0! |
| | 2.60668E-10 | 1011.68 | 161.6 | -6.26037 | 0.000064815 | 1244.18 | 509.167 | -2.44355 |
| -3.4728 | 4.59907E-07 | 868.125 | 246.933 | -3.51563 | | | | |
| | 0.00408375 | #DIV/0! | 653.75 | #DIV/0! | 3.14347E-05 | #DIV/0! | 1316.53 | #DIV/0! |
| | | | | | 0.00218911 | 3088.4 | #DIV/0! | #DIV/0! |
| | | | | | 0.000174552 | 1150.38 | #DIV/0! | #DIV/0! |
| | | | | | 1.17167E-05 | 1600.75 | 3601.45 | 2.24985 |
| | | | | | 8.9671E-08 | 2615.05 | 8544.75 | 3.26753 |
| | | | | | 8.40363E-06 | #DIV/0! | 2195.1 | #DIV/0! |
| 2.20721 | 3.76027E-09 | 2860.58 | 7306.15 | 2.55408 | 1.03239E-14 | 1778.4 | 6997.75 | 3.93486 |
| | | | | | 2.69348E-05 | 3389.9 | 7480.55 | 2.20672 |
| | 5.48327E-08 | 1149.58 | 354.6 | -3.24189 | 3.53774E-05 | 1603.23 | 587.075 | -2.73087 |
| | | | | | 7.64239E-07 | 2645.83 | 912.05 | -2.90096 |
| | | | | | 0.000808691 | 1088.77 | #DIV/0! | #DIV/0! |
| | 1.03007E-06 | 6987.5 | 17611.4 | 2.52042 | 5.58796E-09 | 3707.2 | 11022 | 2.97313 |
| | 0.000850226 | 1257.23 | 2959.8 | 2.35423 | 2.45066E-05 | #DIV/0! | 1905.13 | #DIV/0! |
| | 0.000967609 | 1899.68 | 918.1 | -2.06914 | | | | |
| | | | | | 0.000778441 | 1538.65 | 637.75 | -2.41262 |
| | 1.86515E-05 | 1883.25 | 6998.13 | 3.71598 | 0.000006395 | 1209.35 | 4969.75 | 4.10944 |
| | 6.96851E-06 | 9994.63 | 26567.7 | 2.6582 | 4.12675E-10 | 4332.15 | 18481.2 | 4.26606 |
| | 5.27556E-08 | 3924.35 | 16185 | 4.12424 | 5.27322E-10 | 2703.7 | 12569.7 | 4.64907 |
| 2.89277 | | | | | | | | |
| | 0.000146181 | 857.733 | 380.9 | -2.25186 | | | | |
| | 8.92904E-07 | 1618.53 | 634.533 | -2.55073 | | | | |
| | 0.000335116 | 2706.48 | 1220.58 | -2.21738 | | | | |
| | | | | | 0.000395358 | 1342.78 | 652.75 | -2.0571 |
| | | | | | 0.0229225 | 1228.43 | 405.2 | -3.03165 |
| | | | | | 0.000365519 | 1088.03 | #DIV/0! | #DIV/0! |
| | 3.51522E-06 | 610.933 | 2291.2 | 3.75033 | 6.97429E-06 | #DIV/0! | 1474.73 | #DIV/0! |
| | | | | | 3.65426E-05 | 396.2 | 1737.3 | 4.38491 |
| | 0.00298965 | 1706.43 | 6757.85 | 3.96024 | 1.29001E-05 | 1257.35 | 9020.5 | 7.17422 |
| | | | | | 8.6115E-07 | 1770.38 | 441.175 | -4.01286 |
| | | | | | 4.81976E-06 | 2225.53 | 814.175 | -2.73347 |
| | 0.000170121 | 756.025 | 349.575 | -2.1627 | | | | |
| | | | | | 1.78467E-08 | 1707.8 | 826.633 | -2.06597 |
| | | | | | 4.27504E-07 | 1246.5 | 512.25 | -2.43338 |
| | 2.33168E-06 | 748.3 | 339.933 | -2.20131 | 4.53861E-06 | 1117.97 | 482.1 | -2.31895 |
| | | | | | 0.0118291 | 3582.58 | 679.9 | -5.26927 |
| -2.1151 | 7.64396E-05 | 1185.73 | 365.8 | -3.24148 | | | | |
| | 1.14451E-07 | 1558.65 | 399.733 | -3.89922 | | | | |
| | | | | | 2.23839E-06 | 3760.78 | 8929.15 | 2.37428 |
| | | | | | 9.43948E-13 | 9845.73 | 25203.1 | 2.5598 |
| | | | | | 5.41414E-13 | 6821.5 | 18609.6 | 2.72808 |
| -2.952 | 9.217E-10 | 2348.08 | 583.175 | -4.02636 | 8.38243E-15 | 3281.13 | 495.65 | -6.61986 |
| | | | | | 0.000692757 | 4419.98 | 1126.45 | -3.92381 |
| | | | | | 2.22809E-09 | 322935 | 144717 | -2.23149 |
| | | | | | 1.1469E-09 | 261802 | 125618 | -2.08411 |
| 2.76094 | 4.12402E-05 | 6837.55 | 31280.6 | 4.57483 | 7.19163E-08 | 4538.05 | 32243.2 | 7.10508 |
| | | | | | 0.00294937 | #DIV/0! | 2940.3 | #DIV/0! |
| 4.54165 | 3.31033E-11 | 3221.05 | 30251.8 | 9.3919 | 8.40402E-12 | 3450.5 | 25977.2 | 7.52854 |
| 4.15656 | 1.74784E-06 | #DIV/0! | 2451.15 | #DIV/0! | 0.00019115 | #DIV/0! | 1989.2 | #DIV/0! |
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| 3.82893 | 2.52726E-09 | 803.925 | 4215.98 | 5.24424 | | | | |
| -2.5466 | | | | | | | | |
| | | | | | 1.31001E-10 | 5104.48 | 18609 | 3.64563 |
| 2.25025 | 1.70888E-08 | 5978.65 | 14907.4 | 2.49343 | 1.25684E-09 | 5720.73 | 14455.3 | 2.52682 |
| | | | | | 1.75098E-10 | 24474.6 | 71457.9 | 2.91968 |
| 2.48903 | 1.71569E-10 | 3957.3 | 17411.1 | 4.39973 | 4.54252E-12 | 4347.9 | 17193.3 | 3.9544 |
| 2.70648 | | | | | | | | |
| | | | | | 4.47152E-07 | 2601.73 | #DIV/0! | #DIV/0! |
| -2.1746 | | | | | 5.18193E-06 | 5627.6 | 11535.7 | 2.04984 |
| | | | | | 4.58309E-12 | 9835.1 | 36968.6 | 3.75884 |
| | | | | | 0.00096214 | 1036.05 | 500.733 | -2.06907 |
| | | | | | 0.000455676 | 14362.6 | 31284 | 2.17816 |
| | 0.00604396 | 34833.3 | 9132.13 | -3.81437 | 6.45539E-05 | 21596.2 | 2764.4 | -7.81226 |
| | | | | | 2.88428E-08 | 8399.58 | 20828.1 | 2.47966 |
| | | | | | 6.93343E-10 | 8749.23 | 31211.8 | 3.56738 |
| | | | | | 5.68164E-07 | 2449.78 | 5379.83 | 2.19605 |
| | | | | | 5.57703E-10 | 1891.7 | 4929.9 | 2.60607 |
| -2.0277 | | | | | | | | |
| | | | | | 9.73409E-05 | 2561.35 | 871.6 | -2.93868 |
| | 1.00825E-06 | 2779.03 | 528.85 | -5.25485 | 4.88738E-05 | 1441 | 353.25 | -4.07926 |
| | | | | | 8.59664E-06 | #DIV/0! | 2773.7 | #DIV/0! |
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| -2.4546 | | | | | | | | |
| | 1.70675E-12 | 4609.15 | 12109.9 | 2.62736 | 4.47734E-15 | 2976.3 | 9612 | 3.22951 |
| | 2.72563E-10 | 2124.73 | 6645.45 | 3.12768 | 3.32711E-13 | 1372.9 | 4756.85 | 3.46482 |
| | 1.47827E-11 | 3543 | 11142.3 | 3.14488 | 1.39949E-13 | 2430.93 | 8456.68 | 3.47879 |
| | | | | | 7.50155E-06 | 1857.57 | #DIV/0! | #DIV/0! |
| | | | | | 0.000476637 | 1107.33 | 492.625 | -2.24782 |
| | | | | | 0.000562327 | #DIV/0! | 1679.73 | #DIV/0! |
| | 9.35095E-10 | 5288.43 | 531.55 | -9.94906 | 4.99323E-12 | 7518.2 | 662.7 | -11.3448 |
| | 1.2975E-06 | 2002.75 | 202.8 | -9.87549 | 2.06285E-09 | 2673.38 | #DIV/0! | #DIV/0! |
| | 4.46413E-08 | 2194.45 | 213.05 | -10.3002 | | | | |
| | 4.15379E-05 | 821.425 | 266.033 | -3.08768 | 8.27589E-05 | 1395.83 | 494.967 | -2.82004 |
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| | | | | | 8.88045E-05 | 6056.63 | 2651.65 | -2.2841 |
| | 0.00155755 | 1184.03 | 545.433 | -2.1708 | | | | |
| -2.341 | 0.00172466 | 804.225 | 348.525 | -2.30751 | | | | |
| | | | | | 8.68037E-05 | 879.333 | 357.75 | -2.45795 |
| 2.30406 | | | | | | | | |
| | | | | | 6.28248E-07 | 2595.85 | 807.433 | -3.21494 |
| | | | | | 0.0082705 | 998.9 | 285.9 | -3.49388 |
| | | | | | 0.000254338 | 807.367 | #DIV/0! | #DIV/0! |
| | 8.95685E-05 | 1118.2 | 305.1 | -3.66503 | 1.85376E-05 | 1900.78 | 509.375 | -3.73158 |
| | | | | | 0.00126871 | 1868.5 | 547.65 | -3.41185 |
| | 0.000102752 | 527.633 | #DIV/0! | #DIV/0! | | | | |
| | 0.000414036 | 977.5 | 383.05 | -2.55189 | 7.99425E-07 | 2977.85 | 730.975 | -4.07381 |
| | 0.00169399 | 1538.63 | 4084.88 | 2.65489 | 1.71713E-09 | 1804.8 | 8785.85 | 4.86805 |
| | | | | | 7.00728E-13 | 1407 | 12183.8 | 8.65942 |
| | | | | | 1.9373E-10 | 728.3 | 6942.35 | 9.53227 |
| | 3.34244E-06 | 2637.2 | 941.375 | -2.80143 | | | | |
| | 3.48262E-08 | 620.05 | 4315.93 | 6.96061 | 4.40472E-06 | 492.1 | 1463.68 | 2.97434 |
| | 0.00633832 | 50462.6 | 103048 | 2.04207 | 4.62514E-10 | 20951.9 | 112795 | 5.38353 |
| | 4.6318E-06 | 20766.5 | 60168.6 | 2.89738 | 8.57252E-14 | 6747.85 | 49118.4 | 7.27912 |
| | 5.28183E-06 | 23899.5 | 70633.9 | 2.95546 | 2.14587E-14 | 6701.68 | 60306.1 | 8.99866 |
| | | | | | 0.000326712 | 2347.85 | 5502.8 | 2.34376 |
| | | | | | 1.10303E-05 | 1830.5 | 5413.98 | 2.95765 |
| | | | | | 7.22189E-06 | 3445.48 | 7033 | 2.04123 |
| | | | | | 1.2452E-10 | 9238 | 23044.8 | 2.49457 |
| | | | | | 8.93589E-10 | 17781.3 | 45807.1 | 2.57614 |
| | 7.95092E-07 | 2352.4 | 1146.3 | -2.05217 | 1.0726E-12 | 4404.05 | 1184 | -3.71964 |
| | | | | | 0.0139284 | 1350.7 | 497.8 | -2.71334 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 1.71132E-08 | 4029.2 | 8170.78 | 2.02789 |
| | 6.34914E-12 | 2693.58 | 7874.68 | 2.9235 | 8.17299E-15 | 1747.97 | 5720.08 | 3.27242 |
| | 3.16074E-13 | 4240.1 | 10990.9 | 2.59214 | 7.55402E-17 | 2702.5 | 9742.63 | 3.60504 |
| | 5.80457E-12 | 3568.1 | 10249.8 | 2.87261 | 2.61561E-15 | 2232.05 | 8666.23 | 3.88263 |
| | 1.93764E-06 | 13023.1 | 28153.3 | 2.1618 | 2.3553E-13 | 5139.75 | 18221.7 | 3.54526 |
| | 4.30002E-05 | 14221.6 | 28732.6 | 2.02035 | 1.16351E-11 | 5318.08 | 20147.6 | 3.78852 |
| | | | | | 1.58313E-06 | 2757.13 | 1263.5 | -2.18213 |
| 3.18013 | 2.84043E-10 | 3256.95 | 15134.6 | 4.64687 | 8.96794E-08 | 2762.45 | 8109.6 | 2.93565 |
| | 4.22949E-08 | 8268.9 | 25460.4 | 3.07906 | 1.93921E-11 | 3689.58 | 15257.8 | 4.13538 |
| 2.80066 | 1.34389E-13 | 13666.3 | 82183.4 | 6.01358 | 1.00838E-17 | 10027.1 | 90139 | 8.98951 |
| | | | | | 9.36139E-11 | 6004.43 | 20471.5 | 3.40941 |
| | | | | | 2.27294E-08 | 1112.9 | 4084.78 | 3.67039 |
| | | | | | 9.81662E-10 | 4475.1 | 18111.1 | 4.04708 |
| | 0.000483843 | 1194.5 | 502.075 | -2.37913 | | | | |
| | | | | | 0.000243153 | 1311.4 | 2962.4 | 2.25896 |
| | 1.32446E-08 | 11239.2 | 31791.7 | 2.82864 | 3.94731E-13 | 7916.3 | 32131.4 | 4.05889 |
| 2.17915 | 5.66042E-07 | 2852.7 | 12699.7 | 4.45182 | 2.14579E-12 | 1644.25 | 10933.3 | 6.6494 |
| 2.23996 | 9.24113E-09 | 12089.2 | 37380.4 | 3.09206 | 4.47698E-16 | 5029.35 | 42601.5 | 8.47057 |
| | 2.39382E-08 | 1835.33 | 5462 | 2.97603 | 2.89588E-10 | #DIV/0! | 5906.48 | #DIV/0! |
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| | 8.74134E-06 | #DIV/0! | 530.6 | #DIV/0! | | | | |
| 3.47807 | | | | | | | | |
| #DIV/0! | | | | | | | | |
| | 0.00125857 | 2636.58 | 6852.38 | 2.59897 | 8.20385E-08 | 1991.7 | 5077.33 | 2.54924 |
| | | | | | 1.40142E-10 | 2928.98 | 9980.23 | 3.40741 |
| | 2.49201E-07 | 7903.98 | 17386.8 | 2.19975 | 1.62461E-13 | 3814.98 | 14544.7 | 3.81253 |
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| 3.09931 | 4.95194E-09 | 1719.8 | 6288.98 | 3.65681 | 8.27262E-09 | 1697.25 | 4012.33 | 2.36402 |
| 2.46505 | 9.13776E-11 | 5035.93 | 17077 | 3.39103 | 5.59185E-11 | 3450.23 | 11058.9 | 3.20527 |
| | 0.000454578 | 2114.38 | 4778.78 | 2.26014 | 0.000270602 | 1985.4 | 4479.35 | 2.25614 |
| 3.28873 | 0.000805905 | 772.825 | 2512.8 | 3.25145 | | | | |
| 2.19306 | 1.0701E-07 | 5905.88 | 25127.9 | 4.25473 | 3.87343E-11 | 6970.5 | 24783.6 | 3.55549 |
| | | | | | 2.47293E-10 | 5435.58 | 13796.6 | 2.5382 |
| | 4.02671E-06 | 10268.6 | 20606.4 | 2.00675 | 6.90148E-11 | 5416.45 | 14820.9 | 2.73627 |
| | | | | | 4.18937E-06 | #DIV/0! | 12027.4 | #DIV/0! |
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| | 3.03886E-07 | 6332.38 | 13296.1 | 2.0997 | 8.91851E-10 | 4458.18 | 11800.9 | 2.64701 |
| | 1.82654E-06 | 17058.7 | 38599.4 | 2.26275 | 1.02145E-11 | 10917.8 | 39910.2 | 3.65553 |
| | 1.83022E-05 | 950.5 | 2182.38 | 2.29603 | 3.48014E-05 | #DIV/0! | 2290.07 | #DIV/0! |
| | 6.93667E-05 | 10777.4 | 4281.2 | -2.51738 | | | | |
| | | | | | 6.76816E-11 | 5242.3 | 10625.8 | 2.02693 |
| | 8.77756E-09 | 5918.93 | 13215.5 | 2.23276 | 7.16518E-11 | 3944.88 | 10184.7 | 2.58176 |
| | 2.35808E-06 | 3069.55 | 6714.95 | 2.1876 | | | | |
| | | | | | 0.00067294 | 1270.95 | 604.2 | -2.10353 |
| | | | | | 0.00626077 | #DIV/0! | 660.7 | #DIV/0! |
| | | | | | 1.85874E-05 | 853.325 | 218.15 | -3.91164 |
| | 0.000149315 | 2208.8 | 1091.33 | -2.02396 | 2.83707E-05 | 3281.5 | 1501.88 | -2.18494 |
| | 0.000508278 | 834.325 | 322.375 | -2.58806 | 4.19658E-05 | 1606.58 | 469.225 | -3.42389 |
| | 2.3411E-06 | 1267.68 | 600.9 | -2.10963 | 5.11697E-11 | 2555.6 | 780.15 | -3.27578 |
| | | | | | 2.13818E-05 | 1365.63 | 560.4 | -2.43689 |
| | | | | | 3.3747E-16 | 8374.4 | 30297.4 | 3.61785 |
| | 5.23238E-08 | 5802.85 | 18782.6 | 3.23679 | 1.62756E-11 | 3952.53 | 17551.6 | 4.4406 |
| 2.19937 | 2.03131E-07 | 1412.9 | 6132.58 | 4.34042 | 4.71744E-13 | #DIV/0! | 6006.65 | #DIV/0! |
| | | | | | 0.000162222 | 785.875 | 257.267 | -3.05471 |
| | | | | | 0.00137313 | #DIV/0! | 1905.03 | #DIV/0! |
| | | | | | 1.47386E-05 | 2213.75 | 691.6 | -3.20091 |
| | 0.000232073 | 1702.95 | 5701.43 | 3.34797 | 0.000624578 | 788.75 | 2217.88 | 2.81189 |
| 2.3787 | 3.4601E-06 | 10084.7 | 25950 | 2.57322 | 6.75426E-10 | 4661.05 | 18144.9 | 3.89288 |
| | | | | | 5.67887E-12 | 7393.03 | 34235.6 | 4.6308 |
| | | | | | 1.26831E-05 | 6497.03 | 2021.55 | -3.21388 |
| | 0.0155759 | 849.633 | #DIV/0! | #DIV/0! | | | | |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 4.44291E-05 | 3594.93 | 750.4 | -4.79068 |
| -3.1998 | 3.05927E-05 | 2066.63 | 671.55 | -3.0774 | | | | |
| | | | | | 0.000755836 | 2649.88 | 691.733 | -3.83078 |
| | 0.000975777 | 739.4 | 254.25 | -2.90816 | 5.34616E-05 | 2034.75 | 622.533 | -3.2685 |
| -2.9445 | 0.000162138 | 9965.9 | 3774.83 | -2.6401 | 7.93258E-05 | 3765.18 | 1592.8 | -2.36387 |
| -2.8277 | 0.000982502 | 5390.2 | 2380.1 | -2.26469 | 0.000225623 | 2709.4 | 1156.2 | -2.34337 |
| | | | | | 0.00193108 | #DIV/0! | 1855.58 | #DIV/0! |
| | | | | | 0.00727054 | 3092.43 | 803.1 | -3.85061 |
| -2.1846 | | | | | | | | |
| | 4.52644E-07 | 15967.4 | 34096.1 | 2.13535 | 2.99124E-13 | 6171.9 | 24316.1 | 3.9398 |
| | 6.44076E-05 | 9651 | 20996.9 | 2.17562 | 3.63603E-12 | 2944.93 | 13686.2 | 4.64738 |
| #DIV/0! | | | | | | | | |
| | | | | | 0.0007319 | 3787.23 | 721.1 | -5.25201 |
| | | | | | 0.00609703 | 997.8 | 372.7 | -2.67722 |
| | | | | | 3.17896E-06 | 2510.88 | 942.075 | -2.66526 |
| | 0.00497758 | 623.4 | 1284.58 | 2.0606 | 2.68418E-08 | #DIV/0! | 1877.88 | #DIV/0! |
| | | | | | 3.22263E-09 | 2064.23 | 5818.58 | 2.81877 |
| | 7.67632E-07 | 8092.58 | 19185.3 | 2.37073 | 1.07202E-15 | 4674.85 | 33136.8 | 7.08832 |
| | | | | | 1.17424E-07 | #DIV/0! | 1624.5 | #DIV/0! |
| | 9.60447E-06 | 2705.9 | 1278.15 | -2.11704 | | | | |
| | 7.63837E-05 | 2662.73 | 1099.3 | -2.4222 | | | | |
| | 3.19825E-09 | 1235.75 | 332.2 | -3.7199 | 9.94719E-13 | 3644.4 | 599.35 | -6.08059 |
| | | | | | 9.36238E-05 | 2763.83 | 1055.2 | -2.61925 |
| | | | | | 0.000135496 | 3575.8 | 1737.53 | -2.05798 |
| -3.5319 | 0.000016662 | 718.275 | 295.7 | -2.42907 | | | | |
| -4.6874 | | | | | | | | |
| | | | | | 0.00993801 | #DIV/0! | 3950.98 | #DIV/0! |
| | 1.57331E-07 | 2138.43 | 858.867 | -2.48983 | 1.42962E-06 | 3612.05 | 1658.83 | -2.17748 |
| | | | | | 1.76541E-15 | 7692.67 | 27737.4 | 3.6057 |
| | | | | | 0.0110626 | 1660.3 | 509.567 | -3.25826 |
| -2.288 | 3.52991E-06 | 996.4 | 468.8 | -2.12543 | | | | |
| | | | | | 2.93136E-05 | 1597.78 | 3737.08 | 2.33892 |
| | | | | | 4.40817E-10 | 4298.33 | 13861.3 | 3.2248 |
| | | | | | 2.76766E-08 | 3890.13 | 8245.43 | 2.11958 |
| | 4.80196E-07 | 1026.95 | 2562.23 | 2.49499 | 6.55236E-08 | #DIV/0! | 1926.38 | #DIV/0! |
| | | | | | 6.65252E-12 | 11045.8 | 35837.4 | 3.24445 |
| | 0.000105798 | 3307.6 | 1590.05 | -2.08019 | | | | |
| | | | | | 6.77911E-07 | 797.8 | 1790 | 2.24367 |
| | | | | | 3.44142E-06 | #DIV/0! | 3223 | #DIV/0! |
| | 0.0126561 | 649.425 | 1583.5 | 2.43831 | | | | |
| -2.1962 | | | | | | | | |
| | 1.71787E-08 | 3889.73 | 8413.75 | 2.16307 | 2.66186E-12 | 2869.9 | 9223.93 | 3.21402 |
| | | | | | 5.90757E-09 | 3152.35 | 9131.28 | 2.89666 |
| | | | | | 0.000219684 | 2490.75 | 1108.85 | -2.24625 |
| | 0.000168688 | 855.525 | 298.95 | -2.86177 | 0.00334242 | 1085.27 | 404.2 | -2.68497 |
| | | | | | 0.0168144 | 1135.07 | 502.925 | -2.25693 |
| | | | | | 0.00753808 | #DIV/0! | 1622.78 | #DIV/0! |
| | 0.000105296 | 2596.45 | 1252.68 | -2.07272 | 2.65348E-05 | 5270.03 | 2444.95 | -2.15547 |
| | 1.13094E-06 | 1596.65 | 3371.23 | 2.11144 | 5.76315E-09 | 1275.2 | 2624.35 | 2.05799 |
| | | | | | 5.30162E-11 | 7030.98 | 20791.5 | 2.95713 |
| | 0.000170163 | 2575.43 | 1080.83 | -2.38284 | | | | |
| | | | | | 7.72505E-05 | 3514.38 | 817.3 | -4.29998 |
| | 3.92409E-06 | 1327.37 | 501.1 | -2.64891 | 3.68016E-07 | 1833.38 | 532 | -3.44619 |
| | 1.99052E-07 | 1378.78 | 470.775 | -2.92873 | 2.74709E-07 | 2357.55 | 891.225 | -2.64529 |
| | 0.00172856 | 1794.03 | 718.033 | -2.49854 | | | | |
| -3.4201 | | | | | | | | |
| | | | | | 2.35073E-05 | 1038.5 | #DIV/0! | #DIV/0! |
| | | | | | 1.1214E-10 | #DIV/0! | 4641.28 | #DIV/0! |
| | | | | | 1.1305E-09 | 2503.03 | 6795.38 | 2.71487 |
| | 0.000164256 | 1343.77 | 3453.28 | 2.56985 | 2.67172E-09 | #DIV/0! | 2082.08 | #DIV/0! |
| | 0.011855 | 567.633 | 214.9 | -2.64138 | | | | |
| | 0.000169653 | 1268.95 | 456.5 | -2.77974 | 0.000273041 | 1869.73 | 736.075 | -2.54013 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 2.72343E-06 | 1130.63 | 280.233 | -4.03458 | 0.0133206 | 1401.37 | 620.325 | -2.25908 |
| | | | | | 0.00400812 | 1938.43 | 941.6 | -2.05865 |
| | 2.48517E-06 | 566.95 | #DIV/0! | #DIV/0! | | | | |
| | 0.000170042 | 780.25 | 258.825 | -3.01459 | 0.00122261 | 1105.23 | 453.475 | -2.43723 |
| | | | | | 0.00337734 | 5678.33 | 2646 | -2.146 |
| | | | | | 0.000158827 | 1940.43 | 704.133 | -2.75576 |
| | | | | | 4.28411E-05 | 4456.9 | 2028.83 | -2.19679 |
| | | | | | 0.0034959 | 2104.5 | 607.65 | -3.46334 |
| | 0.00369497 | 666.575 | #DIV/0! | #DIV/0! | | | | |
| | 2.66581E-10 | 6220.75 | 17123 | 2.75255 | 2.32564E-17 | 3371 | 18990.9 | 5.63361 |
| -2.3785 | 4.59382E-05 | 1843.78 | 882.9 | -2.08832 | | | | |
| | 0.00922813 | #DIV/0! | 915.133 | #DIV/0! | 2.72551E-05 | #DIV/0! | 2194.55 | #DIV/0! |
| | | | | | 5.24478E-10 | 2954.23 | 6190.53 | 2.09548 |
| | | | | | 4.67544E-09 | 1415.6 | 4029.1 | 2.84621 |
| | 4.2898E-08 | 4952.95 | 16030.6 | 3.23658 | 3.64224E-14 | 1793.8 | 9739.78 | 5.42969 |
| | 0.000203271 | #DIV/0! | 859 | #DIV/0! | 1.27679E-06 | #DIV/0! | 713.467 | #DIV/0! |
| | | | | | 1.18728E-08 | #DIV/0! | 3255.08 | #DIV/0! |
| | | | | | 0.000323811 | 2856.55 | 807.767 | -3.53636 |
| | | | | | 2.11471E-07 | 2290.18 | 745.55 | -3.07179 |
| | 7.84191E-05 | 1537.5 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 1.81032E-07 | 5686.33 | 12350.1 | 2.17189 |
| | | | | | 1.46657E-06 | 7835.63 | 17881.2 | 2.28203 |
| | | | | | 1.44665E-07 | 5650.35 | 14619.5 | 2.58737 |
| | | | | | 1.08088E-05 | 2418.7 | 463.925 | -5.21356 |
| | 0.00302426 | 617.75 | 308.375 | -2.00324 | 0.00402719 | 1450.6 | 423.05 | -3.42891 |
| | 6.52235E-05 | 955.333 | #DIV/0! | #DIV/0! | 3.41937E-09 | 1771.05 | 639.433 | -2.76972 |
| | | | | | 0.000745804 | 1349.73 | 500.05 | -2.69918 |
| | 5.10228E-06 | 304 | 1567.28 | 5.15551 | 2.06514E-09 | #DIV/0! | 990.05 | #DIV/0! |
| | | | | | 0.000992716 | #DIV/0! | 2249.85 | #DIV/0! |
| | 3.17866E-09 | 1245 | 3541.88 | 2.84488 | | | | |
| | 1.78619E-09 | 3884.28 | 10468.7 | 2.69514 | 2.49612E-13 | 3039.97 | 11547.2 | 3.79846 |
| | 9.79078E-07 | 1796.15 | 690.175 | -2.60246 | 6.34243E-06 | 2527.43 | 1045.05 | -2.41847 |
| | | | | | 0.00298581 | 8797.3 | 4322.25 | -2.03535 |
| | | | | | 0.00608924 | 7508.88 | 3707.45 | -2.02535 |
| | 4.40121E-05 | 17063.5 | 35093.8 | 2.05666 | 1.35895E-08 | 9248.3 | 34068.8 | 3.68379 |
| | 1.13065E-06 | 892.725 | 385.933 | -2.31316 | 2.66444E-09 | 1125.3 | #DIV/0! | #DIV/0! |
| | 0.00209293 | 830.067 | 181.6 | -4.57085 | | | | |
| | 0.0102969 | 1537.3 | 328.5 | -4.67976 | | | | |
| | 1.95475E-08 | 1824.7 | 889 | -2.05253 | 6.25866E-13 | 3373.15 | 1134.58 | -2.97305 |
| | | | | | 3.10238E-08 | 2476.45 | 999.575 | -2.4775 |
| | | | | | 2.66014E-06 | 2044.37 | 1008.1 | -2.02794 |
| | 0.00005852 | 612.375 | 235.55 | -2.59977 | 3.38382E-05 | 1348.1 | 525.3 | -2.56634 |
| | 0.00645686 | 701.633 | 232.9 | -3.01259 | | | | |
| | 0.00136798 | 1119.23 | 442.25 | -2.53077 | 7.28592E-06 | 3300.38 | #DIV/0! | #DIV/0! |
| | 0.00470837 | 3092.35 | 11072.3 | 3.58054 | 0.00142927 | 4901.93 | 19427.6 | 3.96325 |
| | 0.00128954 | 3719.18 | 14438.5 | 3.88216 | 4.65826E-05 | 4887.03 | 25521.5 | 5.22229 |
| | 0.000830859 | 3420.7 | 12947.9 | 3.78517 | 1.34078E-05 | 4179.88 | 23354.8 | 5.58743 |
| -2.2709 | 2.79714E-05 | 4134.55 | 1616.3 | -2.55803 | | | | |
| | 0.000128117 | 1436.13 | 562.4 | -2.55358 | | | | |
| | | | | | 6.20765E-05 | 7479.03 | 1362.3 | -5.49 |
| | | | | | 1.47676E-05 | 2162.68 | 416.25 | -5.19562 |
| | | | | | 0.0015924 | 3020.38 | 6810.28 | 2.25478 |
| | | | | | 0.0179057 | #DIV/0! | 1181.28 | #DIV/0! |
| | | | | | 0.0128357 | #DIV/0! | 1304.2 | #DIV/0! |
| | | | | | 1.43393E-05 | 1923.33 | 3985.65 | 2.07227 |
| | | | | | 1.78652E-05 | 668.7 | 1617.05 | 2.4182 |
| | | | | | 6.81786E-07 | #DIV/0! | 2145.3 | #DIV/0! |
| | | | | | 0.00100932 | 818.8 | 231.95 | -3.53007 |
| | | | | | 2.55482E-05 | 7119.5 | 2057.73 | -3.45989 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 4.70576E-07 | 2776.3 | 6317.68 | 2.27557 | 1.64851E-09 | 2297.13 | 6358.25 | 2.76792 |
| | | | | | 0.000132827 | 1794.7 | 458.675 | -3.91279 |
| | 0.0095724 | 1516.2 | 623.95 | -2.43 | 5.31009E-05 | 3758.35 | 1102.35 | -3.4094 |
| 3.06791 | 1.66364E-09 | 1055.2 | 4233.98 | 4.01249 | 8.135E-10 | 1049.83 | 4122.35 | 3.92667 |
| | 8.70448E-06 | 2199.68 | 954.733 | -2.30397 | 6.42387E-06 | 3593.03 | 1556.38 | -2.30859 |
| | 0.000147514 | 640.175 | 288.633 | -2.21795 | 5.28793E-07 | 1290.08 | 389.267 | -3.31412 |
| | 4.46101E-06 | 519.6 | 161.9 | -3.20939 | 9.53291E-06 | 747.325 | 251.667 | -2.9695 |
| | | | | | 0.000726068 | 1013.05 | 491 | -2.06324 |
| | | | | | 0.000471612 | 1013.03 | #DIV/0! | #DIV/0! |
| 3.05467 | 8.08355E-08 | 559.225 | 2332.03 | 4.1701 | 9.78047E-05 | 792 | 1880.78 | 2.37472 |
| | 0.000770458 | 1165.35 | 2332.65 | 2.00167 | | | | |
| -2.2044 | 5.90898E-09 | 2803.08 | 1028.07 | -2.72655 | | | | |
| | 0.00175464 | 2197.18 | 1083.13 | -2.02855 | | | | |
| | | | | | 4.58331E-05 | 886.425 | 1773.78 | 2.00104 |
| | | | | | 0.00338754 | 1913.3 | 756.2 | -2.53015 |
| | 6.05756E-11 | 6855.8 | 19872 | 2.89857 | 7.82319E-13 | 3470.73 | 12683 | 3.65428 |
| | | | | | 0.00251255 | 1604.13 | 789.25 | -2.03247 |
| | 0.000256632 | 692.533 | 229.1 | -3.02284 | | | | |
| | | | | | 0.000802547 | 1168.33 | 487.8 | -2.39509 |
| | | | | | 0.0154019 | #DIV/0! | 1348.3 | #DIV/0! |
| | 0.0113936 | 618.067 | 173.533 | -3.56166 | 2.05993E-06 | 1138.9 | 332.7 | -3.4232 |
| | 3.60096E-05 | 653.775 | 253.2 | -2.58205 | | | | |
| | 0.00101533 | 847.967 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.000148874 | 3148.3 | 668.85 | -4.70703 |
| | | | | | 0.0122717 | 1455.08 | 463.6 | -3.13864 |
| | 0.00674957 | 655.55 | 240.267 | -2.72843 | 0.000226387 | 1231.85 | 446.1 | -2.76138 |
| | | | | | 2.45434E-06 | 12964 | 26038.2 | 2.00849 |
| -2.4238 | 1.22372E-06 | 7189.38 | 3178.65 | -2.26177 | | | | |
| -2.2952 | 2.18026E-05 | 3555.3 | 1635.73 | -2.17353 | | | | |
| | | | | | 4.57585E-11 | 2210.53 | 6714.1 | 3.03733 |
| | | | | | 2.21168E-05 | 1861.05 | 434.8 | -4.28024 |
| | | | | | 8.43723E-07 | 1323.15 | 427.6 | -3.09436 |
| | | | | | 0.0217535 | 1060.43 | 332 | -3.19405 |
| | | | | | 0.00889465 | 1442.68 | 412.7 | -3.4957 |
| | | | | | 0.0103728 | 1183.95 | 314.3 | -3.76694 |
| | 0.000355461 | 965.8 | 213.5 | -4.52365 | 0.000216757 | 1609.03 | 381.075 | -4.22233 |
| -2.7678 | | | | | | | | |
| | 0.000024512 | 771.133 | #DIV/0! | #DIV/0! | | | | |
| | 0.000633622 | 697.9 | 198.7 | -3.51233 | 0.00167479 | 1226 | 594.133 | -2.06351 |
| | 8.99509E-10 | 1628 | 625.3 | -2.60355 | 1.36263E-11 | 2808.23 | 920.65 | -3.05027 |
| | | | | | 4.27601E-10 | 2653.6 | 1098.65 | -2.41533 |
| | | | | | 0.000407861 | 1756.7 | 440.25 | -3.99023 |
| | | | | | 0.000485726 | 1234.03 | 445.3 | -2.77122 |
| | 0.00102376 | 1120.18 | 375.85 | -2.98038 | 3.01482E-05 | 2984.38 | 828.125 | -3.60377 |
| | | | | | 9.06652E-05 | 721.233 | #DIV/0! | #DIV/0! |
| 2.19483 | | | | | | | | |
| | | | | | 1.07051E-09 | 9221.2 | 21942.8 | 2.3796 |
| | | | | | 0.0114749 | #DIV/0! | 2043.23 | #DIV/0! |
| | 0.0141327 | 560.7 | 257 | -2.18171 | 0.0109011 | 1378.17 | 413.55 | -3.33253 |
| | | | | | 0.00130531 | 1755.93 | 665.1 | -2.6401 |
| | 0.00830293 | 1054.1 | 2305.4 | 2.18708 | 2.47931E-06 | 730.75 | 2589.08 | 3.54304 |
| -6.6255 | 3.26754E-12 | 4734.3 | 567.8 | -8.33797 | 1.29747E-09 | 7481.58 | 1118.35 | -6.68983 |
| | | | | | 1.67554E-11 | 1483 | 4175.8 | 2.81578 |
| | 0.00146181 | 545.925 | 1146.65 | 2.10038 | 1.25248E-09 | #DIV/0! | 1131.05 | #DIV/0! |
| 15.635 | 4.44822E-15 | 1293.95 | 28362 | 21.9189 | 2.8595E-13 | 2321.7 | 25893.2 | 11.1527 |
| -3.1288 | 5.98674E-11 | 10689.3 | 2667.28 | -4.00756 | | | | |
| -2.613 | 0.000289679 | 1722.7 | 489.9 | -3.51643 | | | | |
| | | | | | 1.31054E-06 | 2267.98 | 5191.5 | 2.28905 |
| | 4.87777E-05 | 2569.23 | 5590.98 | 2.17613 | 2.31716E-07 | #DIV/0! | 3583.35 | #DIV/0! |
| | 0.000825218 | 546.625 | 1212.43 | 2.21802 | | | | |
| | | | | | 5.99277E-10 | 13274.9 | 33786.4 | 2.54513 |
| | | | | | 3.48335E-09 | 3588.08 | 10057.2 | 2.80295 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 3.94079E-09 | 12282.7 | 36206.4 | 2.94776 |
| | | | | | 1.11858E-10 | 5625.35 | 17916.3 | 3.18492 |
| | 0.00367971 | 542.333 | 181.8 | -2.98313 | 0.00172191 | 1259.4 | 265.1 | -4.75066 |
| | 2.93171E-07 | 927.2 | 414.033 | -2.23943 | 1.19011E-06 | 1747.55 | 663.65 | -2.63324 |
| | 1.15663E-06 | 809.75 | #DIV/0! | #DIV/0! | 1.05762E-05 | 1206.45 | 478.6 | -2.52079 |
| | 0.000085019 | 664.633 | 179.4 | -3.70476 | | | | |
| | | | | | 1.73279E-06 | 2431.5 | 5656.13 | 2.32619 |
| | 0.0104658 | 668.5 | #DIV/0! | #DIV/0! | 0.00458275 | 1425.8 | 460.75 | -3.09452 |
| | 0.0056859 | 1998.18 | #DIV/0! | #DIV/0! | | | | |
| -2.4008 | 2.62408E-06 | 985.35 | 310.025 | -3.17829 | 6.26684E-08 | 1576.58 | 388.25 | -4.06072 |
| | | | | | 1.67073E-05 | 1996 | 913.2 | -2.18572 |
| | | | | | 3.34782E-15 | 3397.45 | 19017 | 5.59744 |
| | 5.39214E-09 | 6093.95 | 16697.1 | 2.73995 | 3.92255E-14 | 3063.28 | 12774.2 | 4.1701 |
| | | | | | 2.53296E-12 | 3143.9 | 13172.9 | 4.18998 |
| | 4.83884E-10 | 5869.35 | 17209.1 | 2.93202 | 2.13629E-15 | 2837.88 | 13915.6 | 4.90351 |
| | 0.010129 | 892.9 | 1903.83 | 2.13218 | | | | |
| | | | | | 0.000184713 | 2895.85 | 9368.43 | 3.23512 |
| | | | | | 0.00333551 | #DIV/0! | 1160.08 | #DIV/0! |
| | | | | | 0.00362736 | #DIV/0! | 4092.4 | #DIV/0! |
| -2.5594 | 1.63582E-07 | 2630.1 | 1148.43 | -2.29018 | | | | |
| | 2.9009E-07 | 999 | 374.8 | -2.66542 | 1.28314E-05 | 1478.08 | 641.85 | -2.30284 |
| | | | | | 1.77828E-07 | 2377.17 | 1104 | -2.15323 |
| | | | | | 0.00827383 | 1008.95 | 333.6 | -3.02443 |
| | | | | | 0.00819265 | 5461 | 1943.33 | -2.81012 |
| | | | | | 3.67177E-05 | 2220.28 | 504.9 | -4.39745 |
| | | | | | 0.000621369 | 854.05 | 240.4 | -3.55262 |
| | | | | | 0.000529476 | 3680.08 | 835.3 | -4.40569 |
| | | | | | 0.00301712 | 5720.88 | 1462.57 | -3.91153 |
| | | | | | 3.32423E-05 | 5790.23 | 1813.6 | -3.19267 |
| | 0.000090636 | 980.967 | #DIV/0! | #DIV/0! | | | | |
| | 7.55396E-08 | 3334.85 | 8075.45 | 2.42153 | 1.65336E-08 | 2786.6 | 5630.1 | 2.02042 |
| | 3.32056E-08 | 1825.78 | 4645.1 | 2.54418 | 7.2477E-08 | 1176.63 | 2726.45 | 2.31718 |
| | 1.16664E-10 | 2112.2 | 5854.05 | 2.77154 | 1.42587E-12 | 1176.17 | 3621.25 | 3.07886 |
| | 1.53418E-05 | 3065.88 | 1440.43 | -2.12845 | 2.47398E-09 | 2936.08 | 938.75 | -3.12764 |
| | | | | | 2.32857E-06 | 2450.3 | 1041.53 | -2.35261 |
| | | | | | 1.13778E-09 | 5414.58 | 12884.5 | 2.3796 |
| | 0.000538398 | 2114.25 | 5234.28 | 2.47571 | 2.06258E-08 | #DIV/0! | 3039.43 | #DIV/0! |
| | 3.5958E-06 | 1301.58 | 374.1 | -3.47922 | 2.93868E-06 | 3393.6 | 1054.77 | -3.21739 |
| -2.2208 | 7.0686E-10 | 4888.53 | 1429.53 | -3.41968 | 4.81423E-10 | 4938.43 | 1563.65 | -3.15827 |
| | 6.4753E-07 | 35950.8 | 15190.9 | -2.36661 | | | | |
| -2.152 | 3.16623E-08 | 12950.3 | 5922.28 | -2.1867 | | | | |
| -2.7529 | | | | | | | | |
| | 0.00198296 | 538.975 | #DIV/0! | #DIV/0! | | | | |
| | 2.26954E-05 | 2910.75 | 1132.6 | -2.56997 | 3.85045E-09 | 7878.55 | 2046.6 | -3.84958 |
| | 1.82107E-05 | 1323.18 | 578.425 | -2.28755 | 0.000180825 | 1586.85 | 712.367 | -2.22757 |
| | | | | | 0.0115988 | 1493.37 | 612.45 | -2.43835 |
| #DIV/0! | | | | | | | | |
| | | | | | 0.001135 | 2200.2 | 974.25 | -2.25835 |
| | | | | | 6.64939E-07 | 3757.33 | 7993.78 | 2.12752 |
| | | | | | 0.000293642 | 1129.03 | 561.775 | -2.00975 |
| | | | | | 2.26156E-07 | 3931.4 | 8302.08 | 2.11174 |
| | 0.00612898 | 880.75 | 409.9 | -2.14869 | 0.00456162 | 1291.77 | 435.3 | -2.96753 |
| | 0.000124217 | 532.75 | 189.8 | -2.8069 | | | | |
| | | | | | 0.00261828 | 824.167 | 233.4 | -3.53113 |
| | | | | | 5.21507E-05 | 3499.95 | 7442.05 | 2.12633 |
| 2.50039 | 0.000267 | 1466.58 | 3001.48 | 2.04659 | 3.00396E-07 | 961.9 | 2465.4 | 2.56305 |
| | 0.000508315 | #DIV/0! | 1606.33 | #DIV/0! | | | | |
| | | | | | 2.60068E-06 | 3115.68 | 1372.65 | -2.26982 |
| 8.38328 | 5.92066E-09 | #DIV/0! | 7960.38 | #DIV/0! | 9.75646E-10 | #DIV/0! | 10538 | #DIV/0! |
| | | | | | 0.000599958 | 836.2 | 272.367 | -3.07013 |
| | | | | | 3.75457E-11 | 12083.2 | 27785.1 | 2.29948 |
| | | | | | 2.44121E-06 | 2544 | 7026.43 | 2.76196 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 2.44104E-10 | 4748.93 | 13322.1 | 2.80529 |
| | | | | | 1.90245E-10 | 2074.35 | 6427.6 | 3.09861 |
| | | | | | 1.74871E-10 | 9714.98 | 30954.8 | 3.18629 |
| | | | | | 1.89196E-13 | 4490.93 | 14583.5 | 3.24733 |
| | 0.000167309 | 1008.25 | 264.5 | -3.81191 | 0.00278244 | 1147.35 | 284.9 | -4.0272 |
| | | | | | 2.58449E-06 | 4251.35 | 8570.4 | 2.01592 |
| | 0.00196582 | 676.267 | 294.25 | -2.29827 | 0.000854672 | 1086.73 | 400.067 | -2.71638 |
| | | | | | 8.23056E-06 | 1588.98 | #DIV/0! | #DIV/0! |
| | 0.000158327 | 764.167 | 3322.15 | 4.34742 | 2.44599E-05 | 1381.3 | 5918.4 | 4.28466 |
| 2.10063 | | | | | | | | |
| -2.2306 | | | | | | | | |
| | 4.73142E-09 | 8524.6 | 20851.3 | 2.44602 | 2.89218E-08 | 4447.43 | 9569.25 | 2.15164 |
| 2.20684 | 2.79354E-07 | 2061.3 | 6629.43 | 3.21614 | 1.77227E-09 | 1328.7 | 3699.2 | 2.78407 |
| | | | | | | | | |
| 4.48743 | 9.88781E-10 | 6724.5 | 34019.1 | 5.05898 | 4.47493E-08 | 6546.05 | 23367.9 | 3.56977 |
| 3.74998 | 5.84265E-11 | 4111.9 | 24082.6 | 5.85681 | 1.25822E-10 | 4031.18 | 20274.8 | 5.0295 |
| 6.64149 | 0.0114842 | 546.675 | 1190.05 | 2.17689 | | | | |
| 3.08941 | | | | | | | | |
| 4.00067 | 2.37989E-05 | 592 | 2049.95 | 3.46275 | | | | |
| | | | | | 1.31258E-10 | 1238.43 | 3213.75 | 2.59503 |
| | 3.81337E-06 | 1389.78 | 586 | -2.37163 | | | | |
| | | | | | | | | |
| | | | | | 1.78083E-05 | 8248.23 | 902.8 | -9.13627 |
| | | | | | 9.38477E-07 | 53606 | 126403 | 2.35801 |
| | | | | | 5.31223E-08 | 31662.8 | 85737.3 | 2.70782 |
| | | | | | 7.05736E-06 | 1607.8 | 3482.3 | 2.16588 |
| | | | | | 1.72181E-10 | 10817.3 | 25815.6 | 2.38651 |
| | | | | | | | | |
| | 0.000999887 | 1002.03 | 362.5 | -2.76423 | 7.27253E-06 | 5912.93 | 13671.1 | 2.31207 |
| | | | | | 0.000130396 | 2177.53 | 1011.58 | -2.15261 |
| | | | | | 0.00137687 | 754.7 | 313.6 | -2.40657 |
| | | | | | 0.0138194 | #DIV/0! | 601.5 | #DIV/0! |
| | | | | | | | | |
| | 0.00281069 | 894.033 | 269.9 | -3.31246 | | | | |
| | 0.00678077 | 953.55 | 411.567 | -2.31688 | | | | |
| | 0.00131981 | 4873.9 | 2337.15 | -2.0854 | | | | |
| | 2.18846E-06 | 2902.03 | 6443.45 | 2.22033 | 4.8509E-09 | 2357.08 | 6770.3 | 2.87233 |
| | | | | | 3.46098E-13 | 8864.15 | 28388.7 | 3.20264 |
| | 0.00216342 | #DIV/0! | 2253.17 | #DIV/0! | 0.0041071 | #DIV/0! | 2639.35 | #DIV/0! |
| -2.1959 | | | | | | | | |
| | | | | | 0.00303228 | #DIV/0! | 523.767 | #DIV/0! |
| | | | | | 0.000651873 | #DIV/0! | 751.1 | #DIV/0! |
| | 1.10945E-06 | 14305 | 1725.8 | -8.28888 | 3.0981E-09 | 11611.6 | 773.9 | -15.004 |
| | | | | | 2.37457E-06 | #DIV/0! | 5928.8 | #DIV/0! |
| | 0.01262 | #DIV/0! | 1233.35 | #DIV/0! | | | | |
| | | | | | 0.0169375 | 1174.88 | 316.7 | -3.70974 |
| | 0.000134365 | 778.225 | 225.967 | -3.44398 | 2.9231E-06 | 1411.7 | 476.4 | -2.96327 |
| | | | | | 0.00641263 | 2260.35 | 500.667 | -4.51468 |
| | 3.97362E-08 | 5111.43 | 15853.7 | 3.10162 | 4.07086E-09 | 2259 | 6846.05 | 3.03057 |
| | 0.00587171 | 584.367 | 179.7 | -3.2519 | | | | |
| | 0.00013554 | 951.4 | 147.2 | -6.46332 | | | | |
| | 0.0112301 | 519.775 | 142.85 | -3.63861 | 0.0112884 | 1065.43 | 383.5 | -2.77818 |
| | | | | | 0.000353255 | 3484.2 | 669.9 | -5.20107 |
| | 0.00469196 | 648.55 | 229.567 | -2.82511 | 0.000899221 | 1847.73 | 531.867 | -3.47404 |
| | | | | | 0.0106176 | 2845.08 | #DIV/0! | #DIV/0! |
| | | | | | 0.0204736 | 1400.97 | 460.425 | -3.04277 |
| | | | | | 0.000452653 | 910.475 | 317.625 | -2.86651 |
| | | | | | 0.00517221 | 1076.38 | 505.425 | -2.12964 |
| | | | | | 0.0071605 | #DIV/0! | 785.675 | #DIV/0! |
| | 0.000794239 | 780.275 | 379.433 | -2.05642 | | | | |
| | 0.000167745 | 2228.15 | 829.125 | -2.68735 | | | | |

| | | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|--|
| -2.7944 | 1.32999E-08 | 4593.15 | 1875.5 | -2.44903 | | | | | |
| | 5.48867E-11 | 4186.43 | 1082.37 | -3.86784 | 2.70482E-09 | 3881.18 | 1292.38 | -3.00313 | |
| | 0.000688556 | 1283.13 | #DIV/0! | #DIV/0! | 0.00293601 | 2827.5 | 670.2 | -4.21889 | |
| | | | | | 0.0044399 | 644.35 | #DIV/0! | #DIV/0! | |
| | | | | | 3.43458E-12 | 7053.53 | 14416.7 | 2.0439 | |
| | | | | | 4.96332E-11 | 7281.68 | 16123.1 | 2.2142 | |
| | | | | | 0.00530336 | 1645.7 | 418.75 | -3.93003 | |
| | 1.71476E-07 | 1839.58 | 783.3 | -2.34849 | 4.63623E-06 | 2109 | 565.575 | -3.72895 | |
| | 2.45172E-05 | 1017.23 | 304.85 | -3.3368 | 0.000144881 | 1440.7 | 407.05 | -3.53937 | |
| | 4.38811E-05 | 39132.1 | 17068.3 | -2.29267 | 9.01152E-05 | 78795.5 | 34744.9 | -2.26783 | |
| | 0.0105272 | 859.067 | 213.7 | -4.01997 | 0.000637575 | 1961.33 | #DIV/0! | #DIV/0! | |
| | | | | | 2.33301E-08 | 9006.05 | 25058.6 | 2.78242 | |
| | | | | | 9.98121E-13 | 11080.2 | 39691.9 | 3.58223 | |
| | | | | | 8.1255E-12 | 3093.73 | 11644 | 3.76376 | |
| | | | | | 2.50796E-10 | 3878.48 | 14866 | 3.83296 | |
| | | | | | 0.00232498 | 1004.97 | 413.733 | -2.42902 | |
| 2.85592 | | | | | 1.43923E-11 | 879.375 | 4812 | 5.47207 | |
| | 1.20521E-05 | 1523.1 | 575.333 | -2.64733 | 0.00540204 | 1488.5 | 583.95 | -2.54902 | |
| 16.27 | 4.18155E-08 | 628.1 | 6017.15 | 9.57992 | 7.49869E-10 | 1316.6 | 11842.1 | 8.99447 | |
| | 0.000361677 | 1698.17 | 591.4 | -2.87144 | 1.75257E-17 | 1362.1 | 5923.38 | 4.34871 | |
| | | | | | 0.0198395 | #DIV/0! | 1113.6 | #DIV/0! | |
| | | | | | 6.5882E-08 | 1417.73 | 253.325 | -5.59647 | |
| | | | | | 0.00021752 | 1295.25 | 645.967 | -2.00513 | |
| | 0.000358838 | 900.333 | 282.8 | -3.18364 | 4.33053E-06 | 2016.08 | 683.567 | -2.94935 | |
| | | | | | 2.6209E-08 | 7667.03 | 3501.78 | -2.18947 | |
| | | | | | 5.46814E-05 | 1724.27 | 805.4 | -2.14088 | |
| | 4.33974E-07 | 824.7 | 282.5 | -2.91929 | 0.00162615 | 4468.78 | 1720.63 | -2.59718 | |
| | 0.000294019 | 733.775 | 319.925 | -2.29358 | 5.02683E-05 | 3323.5 | 1329.33 | -2.50014 | |
| | 9.38142E-05 | 2672.48 | 740.525 | -3.60889 | 4.99407E-05 | 4142.75 | 1665.8 | -2.48694 | |
| | | | | | 0.0057522 | 867 | 327.3 | -2.64895 | |
| | 1.81452E-05 | 1713.23 | 600.667 | -2.85221 | 0.000144538 | 2403.03 | 843.1 | -2.85023 | |
| | | | | | 0.000530544 | 1724.83 | 849 | -2.0316 | |
| -2.0337 | 0.000996696 | 944.667 | 371.667 | -2.5417 | 2.57892E-11 | 5919.13 | 1947.78 | -3.03892 | |
| | | | | | 4.31472E-08 | 4826.83 | 1894.25 | -2.54815 | |
| | | | | | 1.12794E-05 | 2629.33 | 1146.5 | -2.29336 | |
| | | | | | 5.69647E-06 | 1346.9 | 672.2 | -2.00372 | |
| | 0.000291749 | 1037.93 | 351.875 | -2.9497 | 0.0016799 | 1613.63 | 745.15 | -2.1655 | |
| | 0.000016852 | 805.425 | 368.467 | -2.18588 | 3.10077E-08 | 1799.8 | 555.475 | -3.24011 | |
| | 4.34627E-06 | 1157.4 | 490.633 | -2.35899 | 7.59912E-08 | 1317.7 | 651.55 | -2.02241 | |
| | 2.49176E-09 | 1093.88 | 402.6 | -2.71703 | 1.56362E-05 | 1887 | 608.7 | -3.10005 | |
| | 0.000157883 | 1261.93 | #DIV/0! | #DIV/0! | 0.00377492 | 2105.15 | 865.833 | -2.43136 | |
| 5.05729 | 0.000781574 | 4540.03 | 1135.3 | -3.99897 | 8.79414E-06 | 13627.7 | 2349.3 | -5.80076 | |
| | | | | | 4.80944E-05 | 1932.8 | 424.6 | -4.55205 | |
| | | | | | 0.000158692 | 1132.23 | 193.8 | -5.84228 | |
| -2.2338 | 2.24593E-08 | 1536.45 | 573.375 | -2.67966 | 8.15962E-06 | 1526.03 | 3182.4 | 2.08541 | |
| | 0.00482177 | 555.767 | #DIV/0! | #DIV/0! | 0.00312867 | 2520.13 | 665.55 | -3.78653 | |
| | 0.000160828 | 810.95 | 229.95 | -3.52664 | 0.000104265 | 1891.23 | 676.3 | -2.79644 | |
| | 1.68994E-06 | 984.225 | #DIV/0! | #DIV/0! | 1.1663E-06 | 4735.75 | 1324.4 | -3.57577 | |
| | | | | | 0.00161701 | 1354.4 | #DIV/0! | #DIV/0! | |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 3.34464E-05 | 1428.83 | #DIV/0! | #DIV/0! |
| | | | | | 7.48681E-07 | 2055.08 | 725.4 | -2.83302 |
| | | | | | 0.000835639 | #DIV/0! | 1185.4 | #DIV/0! |
| | | | | | 1.29874E-06 | 1109.27 | 277.45 | -3.99808 |
| -4.9936 | | | | | | | | |
| #DIV/0! | 1.14325E-05 | #DIV/0! | 2809.85 | #DIV/0! | | | | |
| | | | | | 0.00886696 | 1076.47 | 417.767 | -2.57672 |
| | | | | | 0.000751493 | 1087.3 | 421.067 | -2.58225 |
| | 0.00306643 | 1207.37 | #DIV/0! | #DIV/0! | 0.0019621 | 2763.15 | 997.45 | -2.77021 |
| | 0.000852003 | 807.275 | 204.2 | -3.95335 | 0.00659138 | 1128.45 | 322.833 | -3.49546 |
| | 8.38625E-06 | 2876.7 | 6656.1 | 2.3138 | | | | |
| | | | | | 0.000986398 | #DIV/0! | 535.233 | #DIV/0! |
| | 5.80241E-10 | 976.325 | 304.35 | -3.2079 | 1.43935E-07 | 1508.77 | 647.467 | -2.33026 |
| | | | | | 3.46709E-05 | 1346.9 | 441.1 | -3.0535 |
| | 4.34295E-07 | 907.775 | 359.7 | -2.5237 | 8.22834E-08 | 1053.33 | 400.9 | -2.6274 |
| | 9.78782E-06 | 998.2 | 396.867 | -2.5152 | | | | |
| | | | | | 0.0231843 | 2003.73 | #DIV/0! | #DIV/0! |
| | | | | | 0.00242774 | 2154.18 | 652.4 | -3.30192 |
| | | | | | 0.000377865 | 2241.08 | 1080.4 | -2.0743 |
| | 2.36266E-06 | 958.525 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.000160753 | 3624.15 | 844.8 | -4.28995 |
| | | | | | 0.0124571 | 650.6 | 320.2 | -2.03186 |
| | 1.12359E-05 | 2016.25 | 720.9 | -2.79685 | 8.65368E-07 | 3460.23 | 929.975 | -3.72077 |
| | | | | | 7.62871E-06 | 1489.25 | 461.575 | -3.22645 |
| | | | | | 0.0162505 | 1869.8 | 631.4 | -2.96136 |
| | | | | | 3.82929E-07 | 3102.68 | 1435.28 | -2.16173 |
| | 0.00482526 | 1930.4 | 4207.98 | 2.17985 | 3.42778E-06 | 1593.45 | 3595.63 | 2.2565 |
| | 0.000166583 | 3909.4 | 8228.35 | 2.10476 | 1.96581E-09 | 2021.6 | 7978.58 | 3.94666 |
| | 0.000112764 | 3562.18 | 1577.58 | -2.25801 | | | | |
| | | | | | 5.22154E-05 | 1237.6 | 575.525 | -2.15038 |
| | | | | | 0.0205573 | 1507.55 | 705.575 | -2.13663 |
| -2.2862 | | | | | | | | |
| -2.1395 | | | | | | | | |
| | | | | | 3.31204E-05 | #DIV/0! | 4061.53 | #DIV/0! |
| | 0.00184942 | 1887.78 | 4194.15 | 2.22174 | 2.39737E-14 | 1377.58 | 5089.73 | 3.6947 |
| | 2.69938E-07 | 2922.63 | 6030.88 | 2.06351 | 0.000114019 | 2053.35 | 446.3 | -4.60083 |
| | | | | | 3.12553E-05 | 2049.13 | 813.325 | -2.51944 |
| | 8.58229E-05 | 1227.2 | 610.975 | -2.00859 | 0.000121035 | 1578.7 | 597.75 | -2.64107 |
| | 0.000641904 | 763.55 | 374.65 | -2.03804 | 7.45232E-05 | 3268.45 | 867.95 | -3.76571 |
| | | | | | 6.87108E-06 | 3514.88 | 8309.83 | 2.36419 |
| | 0.000884226 | 927.2 | 415.667 | -2.23063 | | | | |
| | | | | | 0.000914036 | 1102.45 | 352.367 | -3.1287 |
| | | | | | 1.79705E-07 | 3894.53 | 8996.48 | 2.31003 |
| | | | | | 1.34524E-05 | 1255.75 | 309.367 | -4.0591 |
| | | | | | 1.49403E-10 | 18964.1 | 44545.9 | 2.34896 |
| | | | | | 0.00351119 | 816.85 | 242.4 | -3.36984 |
| | 0.00226874 | #DIV/0! | 1442.63 | #DIV/0! | 1.20527E-11 | #DIV/0! | 2305.77 | #DIV/0! |
| | | | | | 0.00547679 | 2040.33 | 846.25 | -2.41102 |
| | | | | | 0.00705588 | 1163.7 | 398.833 | -2.91776 |
| | | | | | 6.16093E-05 | 932.033 | #DIV/0! | #DIV/0! |
| | | | | | 1.05776E-06 | 2219.98 | 796.15 | -2.78839 |
| | 0.000444963 | 2979.77 | 1039.27 | -2.86718 | 1.34515E-05 | 6774.65 | 1617.6 | -4.18809 |
| | | | | | 4.04717E-05 | 3317.08 | 1308.8 | -2.53444 |
| | 4.31602E-05 | 2666.08 | 820.225 | -3.25042 | 0.000184284 | 5806.1 | 1848.58 | -3.14085 |
| | 0.00105557 | 547.8 | 1443.7 | 2.63545 | 0.00997954 | #DIV/0! | 1135.5 | #DIV/0! |
| | | | | | 2.59486E-05 | 26727.5 | 8008.93 | -3.33721 |
| | | | | | 3.6331E-06 | 1838.88 | 600.4 | -3.06275 |
| | | | | | 0.00534453 | 730.7 | 88.6 | -8.24718 |
| -3.3544 | 6.69245E-07 | 4503.9 | 1265.83 | -3.55807 | 9.80685E-06 | 3329 | 1283.33 | -2.59404 |
| -2.9977 | 0.000747181 | 2384.95 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.0079843 | #DIV/0! | 2166.97 | #DIV/0! |
| -2.1651 | 0.000025421 | 11820.9 | 5427.08 | -2.17813 | | | | |

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|---------|-------------|---------|---------|-------------|-------------|---------|----------|----------|
| | | | | 0.000833633 | 4401.13 | 1203.28 | -3.65762 | |
| | | | | 0.000218525 | 3190.2 | 1106.1 | -2.88419 | |
| | 0.000162123 | 648.6 | 248.8 | -2.60691 | 3.25734E-08 | 1840.93 | 375.4 | -4.90392 |
| | | | | | 0.00255826 | 14818.8 | 5822.6 | -2.54505 |
| | | | | | 0.0025573 | 44517.2 | 21353.8 | -2.08474 |
| | | | | | 0.0198302 | 1892.98 | 899.7 | -2.10401 |
| | 3.86983E-05 | 2260.23 | 657.975 | -3.43512 | 0.000048411 | 4945.48 | 1691.78 | -2.92325 |
| | | | | | 0.00176185 | 1012.47 | #DIV/0! | #DIV/0! |
| | | | | | 0.000854748 | 35556.2 | 17555.6 | -2.02536 |
| | | | | | 0.00113942 | 4155.2 | 1855.78 | -2.23906 |
| | 0.00134238 | 2026.8 | 946.6 | -2.14114 | | | | |
| | 0.000410046 | 1215.18 | 420.8 | -2.88777 | | | | |
| | 0.00320379 | 758.433 | 259.1 | -2.92718 | | | | |
| | 0.00532985 | 576.833 | #DIV/0! | #DIV/0! | 0.00170964 | 1488.88 | 316.65 | -4.70196 |
| | 0.00138224 | 732.733 | 341.9 | -2.14312 | | | | |
| -2.02 | 4.88454E-06 | 1899.13 | 826.6 | -2.29751 | | | | |
| | 4.26095E-05 | 1392.83 | 472.1 | -2.95028 | 0.000491996 | 2351.4 | 954.225 | -2.4642 |
| | 0.000720761 | 665.075 | 249.3 | -2.66777 | | | | |
| | | | | | 4.14613E-06 | 3367.35 | 1513.3 | -2.22517 |
| | | | | | 0.00547606 | #DIV/0! | 986.9 | #DIV/0! |
| | 0.000368194 | 1365.67 | 359.8 | -3.79563 | 3.87299E-06 | 2876.23 | 797.033 | -3.60866 |
| 4.14042 | 6.24136E-15 | 1774.3 | 8594.63 | 4.84395 | 2.25278E-18 | 2231.2 | 14626.4 | 6.5554 |
| 3.99399 | 6.89852E-20 | 4639.8 | 27751.5 | 5.98118 | 2.45313E-21 | 5750 | 38613 | 6.7153 |
| 5.28737 | 3.54121E-17 | 4175.4 | 38699.3 | 9.2684 | 2.72086E-18 | 4894.65 | 47431.5 | 9.69047 |
| | | | | | 0.0118003 | 1331.63 | 424.433 | -3.13742 |
| | | | | | 0.000053214 | 3778.33 | 7740.78 | 2.04873 |
| | | | | | 9.99214E-08 | 1822.65 | 5209.18 | 2.85802 |
| | | | | | 0.00122457 | #DIV/0! | 2394.13 | #DIV/0! |
| | 0.000290774 | 21290 | 10618 | -2.00508 | | | | |
| | | | | | 3.72605E-09 | 4287.85 | 12396.8 | 2.89114 |
| | | | | | 0.00021942 | 3920.6 | 1216.48 | -3.22292 |
| -2.0145 | | | | | 8.65086E-08 | 2418.35 | 1017.73 | -2.37621 |
| | | | | | 4.45476E-06 | #DIV/0! | 615.733 | #DIV/0! |
| | | | | | 4.29926E-06 | 2844.5 | 710.225 | -4.00507 |
| | 3.98049E-05 | 2261.08 | 1011.73 | -2.23487 | 2.89009E-06 | 4355.2 | 1790.93 | -2.43182 |
| | 0.0149248 | 552.225 | 167.8 | -3.29097 | 0.0111329 | 1829.87 | 636.5 | -2.87489 |
| | | | | | 1.80676E-05 | 1946.37 | 715.5 | -2.72029 |
| | | | | | 1.74141E-07 | #DIV/0! | 4508.38 | #DIV/0! |
| | | | | | 0.000133875 | 1576.2 | 590 | -2.67153 |
| | | | | | 0.0140753 | 1032.47 | #DIV/0! | #DIV/0! |
| | 0.000468133 | 4676.5 | 2027.4 | -2.30665 | 0.000609503 | 4473.3 | 2103.55 | -2.12655 |
| | 9.85427E-07 | 5181.93 | 1711.5 | -3.02771 | | | | |
| | 1.23556E-05 | 2091.2 | #DIV/0! | #DIV/0! | | | | |
| | 0.0004251 | 1307.43 | 326.55 | -4.00375 | 0.000245207 | 1619.8 | 800.4 | -2.02374 |
| | | | | | 1.66352E-05 | 3226.75 | 667.675 | -4.83282 |
| | | | | | 2.49854E-05 | 4857.7 | 1934.43 | -2.51119 |
| | | | | | 6.70071E-06 | 8774.45 | 18405.6 | 2.09764 |
| | 0.000267947 | 6830.18 | 3029 | -2.25493 | | | | |
| | 1.41927E-06 | #DIV/0! | 3756.95 | #DIV/0! | 0.000772415 | 1220 | #DIV/0! | #DIV/0! |
| | 0.0125339 | 672.2 | #DIV/0! | #DIV/0! | 0.000846593 | #DIV/0! | 3725.03 | #DIV/0! |
| | | | | | 0.00148488 | 1371.63 | #DIV/0! | #DIV/0! |
| | | | | | 0.00486554 | 994.133 | #DIV/0! | #DIV/0! |
| | 2.08457E-08 | 2793.48 | 5901.93 | 2.11275 | | | | |
| | 0.000163446 | 2283.6 | 1017.5 | -2.24432 | 0.000290637 | 5641.45 | 2309.5 | -2.44271 |
| | 0.00502614 | 1324.23 | 502.275 | -2.63645 | | | | |
| | 0.00014642 | 897.6 | 344.333 | -2.60678 | 1.42067E-06 | 2138.15 | 531.3 | -4.02437 |
| | | | | | 0.000560445 | 690.975 | 199.1 | -3.47049 |
| -4.2506 | 2.3482E-06 | 843.425 | 163.875 | -5.14676 | | | | |
| | | | | | 4.51188E-06 | 3399.23 | 7296.93 | 2.14664 |
| -3.2272 | 1.92227E-09 | 2769.8 | 593.15 | -4.66965 | 0.00018163 | 1693.13 | 783.325 | -2.16146 |
| | 7.95269E-05 | 3399.08 | 1225.38 | -2.77391 | 1.24525E-06 | 7891.25 | 1997.85 | -3.94987 |
| | 0.00485422 | 612.9 | 182.45 | -3.35928 | 0.000426932 | 1548.88 | 557.8 | -2.77676 |
| | | | | | 0.0207465 | 1228.6 | #DIV/0! | #DIV/0! |

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| | | | | 0.0223276 | 927.667 | #DIV/0! | #DIV/0! |
| | 1.43915E-08 | 8802.6 | 3326.13 | -2.6465 | | | |
| | | | | 0.000109348 | 4422.65 | 2106.13 | -2.0999 |
| | | | | 0.00189166 | 1363.23 | 539.067 | -2.52886 |
| | 0.0140372 | 1327.57 | 473.3 | -2.80492 | 0.00119557 | 1762.93 | 539.633 |
| | | | | 4.08796E-05 | 1004 | 216.525 | -4.63688 |
| | 6.85951E-05 | 1527.43 | 3151.63 | 2.06336 | | | |
| | 1.08783E-05 | 2458.65 | 928.15 | -2.64898 | 9.6539E-10 | 4939.38 | 1262.95 |
| | 0.00158656 | 696.8 | 195.1 | -3.5715 | 0.000801826 | 1422.73 | 529.7 |
| -2.3463 | | | | | | | |
| | | | | 0.00323955 | 1801.7 | 639.767 | -2.81618 |
| -2.4654 | | | | | | | |
| | 7.14968E-07 | 7656.35 | 28082.4 | 3.66785 | 3.00179E-07 | 9584.7 | 37253.3 |
| | | | | | 5.09265E-10 | 23996.9 | 51930.2 |
| | 2.93826E-07 | 4272.23 | 24834.3 | 5.81296 | 3.05885E-08 | 3691.55 | 23310.7 |
| | | | | | 0.00103628 | 1198.63 | 349.8 |
| -2.1022 | 2.28103E-06 | 1332.83 | 464.275 | -2.87077 | | | |
| | | | | 0.000454881 | 1428.4 | 510.55 | -2.79777 |
| | | | | 0.00183874 | 33556.2 | 11208.9 | -2.99371 |
| | | | | 0.00289978 | 30982.8 | 10811.7 | -2.86567 |
| | | | | 0.00314858 | 29630.3 | 10536.2 | -2.81223 |
| | | | | 0.00549719 | 21969.2 | 8175.33 | -2.68726 |
| | | | | 0.0044356 | 11039.1 | 3796.93 | -2.90737 |
| | | | | 0.000101682 | 1337.23 | 3381.8 | 2.52897 |
| 2.25877 | | | | | | | |
| | | | | 2.3115E-06 | 6340 | 2962.77 | -2.13989 |
| | | | | 0.000797395 | 3001.8 | 6079.18 | 2.02518 |
| | 0.000159794 | 818.9 | 222.433 | -3.68155 | 7.28591E-05 | 1721.18 | 491.175 |
| | 5.28763E-06 | 2821.38 | 1202.1 | -2.34704 | 1.23841E-05 | 5351.55 | 2364.78 |
| | 0.00432613 | 1483.37 | 716.667 | -2.06981 | | | |
| | | | | 0.00327218 | 1553.7 | 500.7 | -3.10306 |
| -3.0181 | 1.31206E-08 | 3124.3 | 1067.9 | -2.92565 | 5.2648E-06 | 2450.75 | 1087.73 |
| -3.1698 | | | | | | | |
| | 3.45092E-05 | 1395.6 | 629.8 | -2.21594 | 8.13156E-07 | 2273.93 | 1008.83 |
| | | | | | 0.000842732 | 2195.67 | 638.275 |
| | 0.00171297 | 528.1 | #DIV/0! | #DIV/0! | | | |
| | 7.43831E-07 | 2232.78 | 748.775 | -2.9819 | 8.2142E-09 | 5960.15 | 1520.8 |
| | | | | | 0.00195085 | 2155.3 | 574.833 |
| | 0.000322349 | 2004.78 | 856.625 | -2.34032 | 2.40509E-06 | 5193.13 | 1467.3 |
| | 0.000209001 | 2609.6 | 1066.58 | -2.44671 | | | |
| | | | | 0.000395556 | 1008.58 | 323.2 | -3.12059 |
| | | | | 4.69609E-08 | #DIV/0! | 3231.48 | #DIV/0! |
| | 0.0113071 | 779.9 | #DIV/0! | #DIV/0! | | | |
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| | | | | 0.00330848 | 507.675 | 182.4 | -2.78331 |
| | | | | 1.90593E-06 | 13396.1 | 6021.6 | -2.22467 |
| | 9.40217E-06 | 947.125 | 332.625 | -2.84743 | 1.92786E-07 | 1799.03 | 495.7 |
| | | | | | 0.00202756 | 1447.53 | 601 |
| | 0.0132473 | 2200.68 | 1024.75 | -2.14752 | 0.0019879 | 4672.95 | 2020.98 |
| | | | | | 0.000987545 | 2743.93 | 861.9 |
| -2.8987 | 4.47859E-09 | 5834.55 | 1463.2 | -3.98753 | 3.25327E-11 | 8309.08 | 1582.6 |
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| | 6.50667E-06 | 3537.23 | 1484.78 | -2.38233 | | | |
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| | | | | | 0.000339957 | 2146.58 | 940.025 |
| | 3.2555E-08 | 15633.9 | 31828.5 | 2.03586 | 1.10396E-08 | 10932.3 | 22194.2 |
| | | | | | 2.89255E-09 | 17898.3 | 38766.7 |
| | | | | | 4.37111E-09 | 17573.6 | 42446.1 |
| | 4.4712E-11 | 22904.1 | 48074.6 | 2.09895 | 5.06173E-15 | 12920.1 | 32698.6 |
| | | | | | 0.000403698 | 1227.28 | 441.1 |
| | | | | | 0.0136018 | 999.9 | 383.9 |
| | | | | | 2.01439E-06 | 2300.05 | 974.6 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00889924 | 7536.03 | 1400.9 | -5.37942 |
| | | | | | 0.000462491 | 1500.07 | 611.467 | -2.45323 |
| 3.60872 | 2.68469E-09 | 1332.83 | 6669.13 | 5.00375 | 1.21443E-09 | 1724.1 | 6487.83 | 3.76302 |
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| 2.88838 | 0.000590544 | 750 | 1903.85 | 2.53847 | 0.0213307 | #DIV/0! | 1323.3 | #DIV/0! |
| 4.10556 | 2.29624E-06 | #DIV/0! | 2220.23 | #DIV/0! | | | | |
| | 0.00124124 | 711.075 | 224.1 | -3.17303 | | | | |
| | | | | | 3.1716E-07 | 2453.43 | 6054.03 | 2.46757 |
| | 0.00136656 | 2504.8 | 5869.1 | 2.34314 | 0.000610466 | 2753.13 | 6998.13 | 2.54188 |
| | | | | | 0.00155966 | 3017.55 | 7485.43 | 2.48063 |
| | 2.31876E-05 | 5695.75 | 14313.1 | 2.51295 | 5.74474E-07 | 4361.17 | 11607.7 | 2.66159 |
| | 2.84461E-10 | 6716.2 | 21033.4 | 3.13174 | 5.86602E-16 | 4871.93 | 30487.8 | 6.25785 |
| | | | | | 0.000105727 | 5638.48 | 1378.03 | -4.09171 |
| | | | | | 0.00280728 | #DIV/0! | 871.85 | #DIV/0! |
| -3.0087 | 0.00220206 | 617.125 | 256.9 | -2.4022 | 0.00146313 | 1459.9 | 438.533 | -3.32905 |
| | | | | | | | | |
| | | | | | 3.17676E-08 | 4914.38 | 11278.6 | 2.29502 |
| | | | | | 4.25305E-08 | 2187.63 | 4964.63 | 2.26941 |
| | 0.000341286 | 529.175 | 105.7 | -5.00639 | 0.00321469 | 1297.03 | 311.133 | -4.16874 |
| | | | | | 6.05824E-08 | 6519.73 | 13541.3 | 2.07697 |
| | | | | | 5.23201E-06 | 5094.78 | 10265.9 | 2.01498 |
| | | | | | 7.07621E-06 | 1774.7 | 3552.78 | 2.0019 |
| | | | | | 1.19096E-09 | 6380.33 | 14245 | 2.23265 |
| | | | | | 0.00740518 | 1152.9 | #DIV/0! | #DIV/0! |
| | | | | | 0.000405286 | 4284.43 | 843.8 | -5.07754 |
| | 0.00225566 | 1093.15 | 280.467 | -3.89761 | 0.000538038 | 3111.35 | 463.625 | -6.71092 |
| | | | | | 1.02486E-06 | 3021.4 | 1221.75 | -2.47301 |
| | 0.00428103 | 619.625 | 210.8 | -2.9394 | 0.000905987 | 1231 | 415.433 | -2.96317 |
| | | | | | 0.00162465 | 843.1 | 2132.68 | 2.52956 |
| | 0.00465585 | 801.975 | 397.933 | -2.01535 | 0.00132409 | 1436.2 | 398.275 | -3.60605 |
| | | | | | 6.00394E-09 | 2960.95 | 836.5 | -3.53969 |
| | | | | | 0.00049492 | 1144.9 | 356.7 | -3.2097 |
| | 3.33423E-05 | 13981.1 | 3460 | -4.04077 | 5.56833E-11 | 52571 | 4016.5 | -13.0888 |
| | 1.37655E-06 | 5110.38 | 1141.9 | -4.47533 | 1.79071E-07 | 13696 | 2841.43 | -4.82013 |
| | | | | | 1.31777E-06 | 2014.93 | 614.35 | -3.27977 |
| | 5.05081E-08 | 2024.15 | 544.067 | -3.72041 | 4.04333E-08 | 4697.68 | 1183 | -3.97098 |
| | 0.00791012 | 685.85 | 317.8 | -2.15812 | 0.000225282 | 1448.85 | 468.4 | -3.09319 |
| -2.1228 | | | | | | | | |
| | 0.00011536 | 4720.3 | 1939.93 | -2.43324 | 1.85256E-05 | 10438.8 | 3812.63 | -2.73795 |
| | | | | | 0.000435996 | 1417.53 | #DIV/0! | #DIV/0! |
| | | | | | 0.00006832 | 998.5 | 307.1 | -3.25138 |
| | 0.00597201 | 893.433 | 234.3 | -3.8132 | | | | |
| | | | | | 0.0152228 | 783.875 | 188.3 | -4.1629 |
| | | | | | 0.000246487 | 1310.83 | 500.6 | -2.61852 |
| | 5.69098E-10 | 3977.08 | 12517.2 | 3.14734 | 5.62215E-13 | 2937.58 | 13723.6 | 4.67173 |
| | 1.57828E-06 | 1533.93 | 4361.18 | 2.84313 | 1.70129E-11 | #DIV/0! | 4596.73 | #DIV/0! |
| | 0.000522017 | 2139.18 | 712.825 | -3.00098 | 7.09618E-05 | 4490.63 | 1439.83 | -3.11887 |
| 2.03488 | 0.000250017 | 642.533 | 1319.5 | 2.05359 | | | | |
| 2.18987 | | | | | | | | |
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| | | | | | 1.06947E-08 | 17939.5 | 46258.2 | 2.57856 |
| | 3.86414E-06 | 21894.7 | 44350.1 | 2.0256 | 4.05488E-08 | 16640.7 | 41117.4 | 2.47089 |
| | | | | | 5.29726E-08 | 18384.9 | 46932.6 | 2.55279 |
| | 0.0040221 | 789.125 | 344.1 | -2.2933 | | | | |
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| -2.9204 | 8.01651E-08 | 10580.6 | 3607.6 | -2.93287 | | | | |
| | | | | | 0.000954262 | 2347.43 | 655.333 | -3.58203 |
| | 6.41588E-05 | 1176.6 | 517 | -2.27582 | 1.59121E-06 | 2738.95 | 968.633 | -2.82764 |
| | 3.9094E-07 | 2329.03 | 957.075 | -2.43348 | | | | |
| | 4.73583E-06 | 1556.93 | 717.167 | -2.17094 | 4.32733E-07 | 2438.05 | 882.425 | -2.7629 |
| | | | | | 3.44498E-10 | 4346.6 | 9077.75 | 2.08847 |
| | 1.35484E-10 | 2613.6 | 5699.1 | 2.18056 | 2.81295E-14 | #DIV/0! | 5921.63 | #DIV/0! |

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| 2.8374 | 9.12177E-13 | 2845.85 | 18935.5 | 6.65371 | 8.83308E-16 | 2907.08 | 29137.4 | 10.0229 |
| | 4.92509E-07 | 1914.13 | 662.875 | -2.88761 | 0.000130627 | 2352.43 | 1008.5 | -2.3326 |
| | | | | | 0.00383521 | 826.7 | 240.9 | -3.43171 |
| | | | | | 5.02403E-05 | 903.525 | 364.5 | -2.47881 |
| -2.0508 | 1.90118E-06 | 1231.95 | 610.467 | -2.01805 | 1.46785E-10 | 2378.05 | 777.3 | -3.05937 |
| | | | | | 0.0217216 | 1118.15 | 306.7 | -3.64575 |
| | | | | | 0.000445505 | #DIV/0! | 5280.55 | #DIV/0! |
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| | | | | | 1.71755E-06 | 1356.03 | 505.467 | -2.68272 |
| | 0.00859142 | 672.9 | 269.8 | -2.49407 | | | | |
| | 6.30427E-05 | 1873.63 | 778.725 | -2.40602 | 0.00129601 | 5892.78 | 2332 | -2.52692 |
| | | | | | 1.45669E-08 | 27652.1 | 57616.5 | 2.08362 |
| | 0.00931459 | 548.925 | 193.45 | -2.83755 | 0.000485432 | 1169.9 | 350.3 | -3.33971 |
| | | | | | 3.40809E-05 | 1722 | 676.775 | -2.54442 |
| | 0.000947436 | 2682.05 | 886.775 | -3.0245 | 0.000192753 | 6256.13 | 2325.9 | -2.68977 |
| | 0.0024077 | 1238.85 | 362.633 | -3.41626 | 0.00962211 | 2094.35 | 930.65 | -2.25042 |
| | | | | | 1.58646E-15 | 4248.78 | 12307.3 | 2.89668 |
| | 0.000229481 | 35061.2 | 71091.4 | 2.02764 | 2.28754E-10 | 15446.6 | 64613.1 | 4.18299 |
| | 0.00852252 | 1798.68 | #DIV/0! | #DIV/0! | 0.00314772 | 3005.1 | 1013.95 | -2.96376 |
| | 0.00187842 | 512.075 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 4.10094E-08 | 18173.4 | 8699.28 | -2.08906 |
| | 0.0139138 | 643.975 | #DIV/0! | #DIV/0! | | | | |
| | 1.49016E-07 | 2173.5 | #DIV/0! | #DIV/0! | 9.24003E-08 | 3472.05 | 1453.13 | -2.38937 |
| | 0.00045244 | 7306.98 | 2807.35 | -2.6028 | 0.000568304 | 14667.7 | 6794.35 | -2.1588 |
| | | | | | 2.68586E-08 | 4024.33 | 8998.85 | 2.23611 |
| | 1.13168E-07 | 1044.9 | 486 | -2.15 | 3.47689E-05 | 1849.5 | 874.95 | -2.11384 |
| | 0.00797729 | 2493.78 | 1089.03 | -2.28992 | 0.00309206 | 2652.3 | 1104.7 | -2.40092 |
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| | | | | | 0.000316152 | 2057.73 | 730.725 | -2.816 |
| | | | | | 0.00526591 | 2429.53 | 1015.88 | -2.39156 |
| | | | | | 1.10844E-05 | 2671.4 | 695.525 | -3.84084 |
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| | 4.77048E-09 | 2418 | 1067.77 | -2.26454 | | | | |
| | | | | | 4.00602E-07 | 3360.53 | 9720.18 | 2.89246 |
| | | | | | 0.00285355 | 1665.95 | 324.9 | -5.12758 |
| -2.8169 | 1.14919E-10 | 17044.5 | 5375.3 | -3.1709 | 6.15169E-12 | 8824.85 | 2528.18 | -3.4906 |
| -2.1284 | | | | | | | | |
| | 0.000706189 | 896.333 | #DIV/0! | #DIV/0! | | | | |
| | 0.00538095 | 2060.93 | 957.7 | -2.15195 | | | | |
| | | | | | 0.000234002 | 4886 | 10185.7 | 2.08468 |
| | | | | | | | | |
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| | | | | | 0.000178896 | 2469.03 | 659.35 | -3.74463 |
| | | | | | 0.000283755 | 4287.1 | 1656.08 | -2.58871 |
| | 5.15776E-05 | 684.375 | 221.25 | -3.09322 | 4.38012E-07 | 1373 | 323.4 | -4.24552 |
| | | | | | 0.000179722 | 1470.93 | #DIV/0! | #DIV/0! |
| | 0.0144176 | 505.7 | #DIV/0! | #DIV/0! | | | | |
| -3.5837 | | | | | 0.00343391 | 1105.4 | #DIV/0! | #DIV/0! |
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| | | | | | 0.0115755 | 1617.5 | 529.567 | -3.05438 |
| | | | | | 1.48849E-06 | 4062.6 | 11768.3 | 2.89675 |
| | | | | | 0.000336428 | 2502.45 | 919.45 | -2.72168 |
| | | | | | 0.00244091 | 1240.9 | 563.5 | -2.20213 |
| | 0.00221067 | 559.025 | 226.8 | -2.46484 | | | | |
| | 6.06003E-05 | 2180.9 | #DIV/0! | #DIV/0! | 0.000298739 | 2415.65 | 735.65 | -3.28369 |
| | 0.00110256 | 1132.78 | 460.167 | -2.46166 | | | | |
| | 0.00765057 | 881.675 | 392.65 | -2.24545 | | | | |
| | | | | | 0.000156896 | 2412.93 | 557.367 | -4.32915 |
| | 0.000520535 | 529.85 | #DIV/0! | #DIV/0! | | | | |

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| | 0.00172721 | 552.8 | 151.2 | -3.65608 | | | | |
| | 4.81849E-06 | 1274.65 | 440.5 | -2.89364 | 0.000314797 | 1809.33 | 843.4 | -2.14528 |
| | 0.000426925 | 1070.5 | 2571.03 | 2.4017 | 0.000143232 | #DIV/0! | 1923 | #DIV/0! |
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| | | | | | 0.0179791 | 2017.5 | 539.325 | -3.74079 |
| #DIV/0! | | | | | | | | |
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| | | | | | 0.00475461 | 953.425 | 374.9 | -2.54314 |
| | | | | | 0.000787228 | 1797.05 | 290.5 | -6.18606 |
| | | | | | 4.45556E-06 | 2896.15 | 584.425 | -4.95555 |
| | | | | | 4.08816E-05 | 2716.95 | 897.1 | -3.02859 |
| | | | | | 6.81094E-06 | 2049.7 | 721.233 | -2.84194 |
| | 0.0136836 | 1756.08 | #DIV/0! | #DIV/0! | 1.16759E-05 | 1979.43 | #DIV/0! | #DIV/0! |
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| | 2.98903E-06 | 1049.78 | 2224.08 | 2.11862 | | | | |
| -2.396 | | | | | | | | |
| -2.083 | 0.000753096 | 29195.8 | 11905.1 | -2.45237 | 2.96828E-05 | 2818.1 | 772.05 | -3.65015 |
| | | | | | 0.00103987 | 1753.37 | 818.375 | -2.1425 |
| | 8.24716E-07 | 1202.9 | 422.733 | -2.84553 | | | | |
| 2.33318 | 0.000104049 | 901.967 | 2727.18 | 3.02359 | 8.01154E-06 | #DIV/0! | 2059.23 | #DIV/0! |
| | 3.2242E-10 | 2045.73 | 4608.43 | 2.25271 | | | | |
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| | | | | | 0.00079825 | #DIV/0! | 1235 | #DIV/0! |
| | | | | | 0.000173614 | 1561.13 | 512.15 | -3.04818 |
| | 2.13567E-06 | 17937.5 | 40286 | 2.24592 | 8.94684E-11 | 8825.05 | 29639.3 | 3.35854 |
| | 4.70466E-06 | 1266.08 | 434.95 | -2.91085 | 0.00594001 | #DIV/0! | 1041.3 | #DIV/0! |
| | | | | | 3.41049E-05 | #DIV/0! | 2312.85 | #DIV/0! |
| -2.2576 | 1.02949E-05 | 2350.63 | 573 | -4.10231 | 5.83977E-05 | 1822.28 | 705.2 | -2.58405 |
| | 0.00964424 | 1337.63 | 457.8 | -2.92187 | | | | |
| -3.5504 | 0.000461526 | 9907.4 | 3584.83 | -2.76371 | | | | |
| | | | | | 4.61297E-11 | 4508.08 | 16645.2 | 3.69231 |
| | | | | | 4.43377E-07 | 3345.05 | 1492.88 | -2.24068 |
| | | | | | 6.82089E-08 | 1512.83 | 647 | -2.33821 |
| | | | | | 1.14014E-10 | 19526.6 | 56412.1 | 2.88899 |
| | | | | | 1.69096E-10 | 23582.1 | 69636.2 | 2.95292 |
| | | | | | 4.17941E-10 | 17969.1 | 55008.6 | 3.0613 |
| -2.3384 | 0.00131352 | 2127.18 | 1048.55 | -2.02868 | | | | |
| | 0.000102222 | 649.05 | 297.25 | -2.18352 | | | | |
| | | | | | 1.55418E-12 | 4392.28 | 13896.8 | 3.16391 |
| | | | | | 7.99539E-05 | 133805 | 25857.7 | -5.17467 |
| | | | | | 9.87512E-09 | 1448.28 | 4427.55 | 3.05712 |
| | | | | | 3.50697E-05 | 1248.25 | 530.25 | -2.35408 |
| #DIV/0! | 0.00059649 | #DIV/0! | 1757.93 | #DIV/0! | | | | |
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| | | | | | 6.18155E-06 | 2353.63 | 8516.6 | 3.6185 |
| -2.3721 | | | | | | | | |
| | 7.48042E-05 | 1247.33 | 362.2 | -3.44377 | 5.04922E-05 | 4089.88 | 935.95 | -4.36976 |
| | 0.000196614 | 553.9 | 235.1 | -2.35602 | 2.18425E-08 | 1201.73 | 283.65 | -4.23665 |
| | 0.000271526 | 2259.3 | 882.775 | -2.55932 | 0.000573427 | 2310.38 | 1028.3 | -2.24679 |
| | | | | | 0.000214231 | 2065 | 599.5 | -3.44454 |
| | | | | | 8.7829E-13 | 2009.65 | 5614.03 | 2.79353 |
| 3.25104 | 1.25785E-09 | 3404.98 | 21113.6 | 6.2008 | 9.99322E-12 | 3532.2 | 20694.6 | 5.85885 |
| 3.602 | 1.5529E-07 | 19424.5 | 84219.7 | 4.33574 | 8.71124E-15 | 6385.48 | 103243 | 16.1684 |
| | | | | | 9.5679E-09 | 3075.08 | 8573.85 | 2.78818 |
| | | | | | 0.00533183 | 1033.4 | 496.975 | -2.07938 |
| | | | | | 0.00370169 | 1711.15 | 421.633 | -4.05838 |
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| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 7.54871E-09 | 42220.3 | 114536 | 2.71281 |
| | | | | | 0.00282394 | 14910.6 | 43224.2 | 2.89889 |
| | | | | | 1.81327E-06 | 10235 | 32877.5 | 3.21228 |
| | | | | | 1.00914E-09 | 6098.28 | 27022.2 | 4.43112 |
| | 8.4097E-07 | 1310.05 | 3663.08 | 2.79613 | 2.05822E-10 | 1259.7 | 3729.78 | 2.96084 |
| | 4.11802E-05 | 1521.25 | 3136.65 | 2.06189 | | | | |
| | | | | | 0.00128704 | 1849.35 | 448.325 | -4.12502 |
| | | | | | 1.26661E-12 | 4874.88 | 12681.5 | 2.60139 |
| | 2.35436E-10 | 3515.45 | 887.875 | -3.9594 | | | | |
| | 4.77634E-09 | 2701.33 | 851.525 | -3.17234 | 3.04777E-10 | 4203.48 | 1173.65 | -3.58154 |
| | | | | | 0.00001182 | 3414.3 | 1351.2 | -2.52687 |
| | | | | | 0.00147495 | 1888.23 | 875.7 | -2.15626 |
| | | | | | 0.000086465 | 976.175 | 474.725 | -2.0563 |
| -2.4036 | 7.83575E-07 | 3329.1 | 1171.9 | -2.84077 | | | | |
| -2.6339 | 1.39581E-06 | 2952.83 | 1195.88 | -2.46918 | | | | |
| -2.8705 | 0.000692751 | 1959.98 | 973.5 | -2.01333 | | | | |
| | | | | | 7.18684E-07 | 2557.53 | 7983.13 | 3.12143 |
| | 2.30645E-05 | 18499.5 | 47114.7 | 2.54681 | 1.72974E-10 | 6341.23 | 27871.6 | 4.39529 |
| -2.8893 | 3.4676E-07 | 2601.9 | 851.2 | -3.05674 | 7.421E-07 | 2496.55 | 1051.53 | -2.3742 |
| | 4.87496E-06 | 1051.45 | 330.525 | -3.18115 | 1.38773E-08 | 3036.28 | 686.95 | -4.41994 |
| | 3.13293E-05 | 6221.23 | 2600.88 | -2.39197 | | | | |
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| | 2.033E-08 | 26221.5 | 56322.4 | 2.14795 | 7.34991E-18 | 11721 | 59358.3 | 5.06426 |
| | 1.78701E-10 | 20741.2 | 52898.9 | 2.55042 | 4.18584E-19 | 8918.23 | 50457.5 | 5.6578 |
| | | | | | 0.000377643 | #DIV/0! | 1726.28 | #DIV/0! |
| | | | | | 0.0147018 | 938.7 | 306.2 | -3.06564 |
| 2.70377 | 3.56782E-12 | 3403.2 | 17435.2 | 5.12317 | 2.08664E-15 | 2411.88 | 16017.9 | 6.64126 |
| | | | | | 4.12357E-13 | 8371.05 | 23144.4 | 2.76481 |
| | 1.98056E-07 | 4511.48 | 10673.7 | 2.3659 | 6.74911E-08 | 2825.18 | 6796.5 | 2.40569 |
| | 3.84378E-05 | 4663.8 | 9390.73 | 2.01354 | 5.17563E-09 | 2202.05 | 4914.4 | 2.23174 |
| | | | | | 6.58131E-08 | 2453.37 | 6693.65 | 2.72835 |
| | | | | | | | | |
| | 0.00123791 | 1148.87 | 512.75 | -2.2406 | | | | |
| | | | | | 3.04642E-10 | 1066.75 | 3859.88 | 3.61835 |
| | | | | | 1.55252E-13 | 2216 | 12282 | 5.54241 |
| | | | | | 4.62931E-15 | 9098.18 | 62181.4 | 6.83449 |
| | | | | | 1.96093E-16 | 3245.7 | 22670.7 | 6.98483 |
| | 0.000209104 | 5045.33 | 2397.1 | -2.10476 | | | | |
| -2.1848 | | | | | | | | |
| -2.7965 | 1.24557E-07 | 5342.8 | 2191.35 | -2.43813 | | | | |
| | | | | | 1.78616E-10 | 5909.93 | 12878.3 | 2.17909 |
| | | | | | 2.81876E-18 | 3550.6 | 18780.6 | 5.28942 |
| 2.22477 | 1.37955E-07 | 8498.98 | 28381.6 | 3.33942 | 8.71571E-11 | 3273.43 | 17989.4 | 5.49557 |
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| | 6.05403E-09 | 2536.45 | 10585.7 | 4.17344 | 2.08378E-14 | 1240.25 | 8397.35 | 6.77069 |
| 2.03433 | 1.00667E-11 | 3631.65 | 17233 | 4.74523 | 7.83009E-16 | 2273.7 | 17272.2 | 7.59653 |
| 2.16724 | 7.06441E-11 | 2695.7 | 11428.5 | 4.23953 | 1.32149E-16 | 1033.5 | 9841.38 | 9.52238 |
| 2.32639 | 5.08839E-12 | 9403.75 | 34700.8 | 3.6901 | 7.73181E-20 | 3069.85 | 33174.4 | 10.8065 |
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| | 2.8934E-07 | 9616.7 | 20731.8 | 2.15581 | 2.40667E-09 | 4726.28 | 11987.3 | 2.53631 |
| -2.1554 | | | | | 0.000711668 | #DIV/0! | 2053.75 | #DIV/0! |
| 5.74829 | 5.42094E-11 | 4410.2 | 29822.3 | 6.76212 | 5.20632E-10 | 5706 | 31131 | 5.45583 |
| 2.53009 | 0.000184493 | 860.6 | 1834.18 | 2.13127 | 6.3763E-06 | #DIV/0! | 1783.65 | #DIV/0! |
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| | 2.22195E-06 | 2038.68 | 850.2 | -2.39788 | | | | |
| -2.3742 | 0.000139843 | 10274.7 | 4865.35 | -2.11182 | | | | |
| | | | | | 0.000786149 | 2904.45 | 1377.2 | -2.10895 |
| | | | | | 1.05309E-06 | 7803.65 | 18580.9 | 2.38106 |
| | 0.00540317 | 5464.38 | 12136.1 | 2.22094 | 0.000427708 | 2617.1 | 7595.65 | 2.90232 |
| | | | | | 3.59802E-10 | 12133.8 | 37842.8 | 3.11878 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 2.17245E-07 | 4893.75 | 10321.7 | 2.10916 |
| | 2.45648E-05 | 5170.28 | 10381.6 | 2.00793 | 1.00862E-08 | 2909.7 | 8499.35 | 2.92104 |
| | 6.03103E-05 | 1803.8 | 3747.25 | 2.07742 | | | | |
| | 3.52497E-05 | 1308 | 2871.25 | 2.19515 | | | | |
| | 0.000728748 | 724.033 | 307.35 | -2.35573 | 0.000240425 | 946.267 | 367.95 | -2.57173 |
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| -3.9661 | 3.67029E-05 | 15184.8 | 3449.28 | -4.4023 | | | | |
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| | 0.0022506 | 829.525 | 1701.13 | 2.05072 | | | | |
| | | | | | 0.00945581 | 1209.9 | 258.2 | -4.6859 |
| | | | | | 0.00221959 | 1670.75 | 544.633 | -3.06766 |
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| #DIV/0! | 5.72023E-08 | 1418.88 | #DIV/0! | #DIV/0! | | | | |
| | 4.21263E-07 | 1086.45 | 345.7 | -3.14275 | 1.36206E-05 | 2216.1 | 762 | -2.90827 |
| | | | | | 0.000662968 | 1375.38 | 650.45 | -2.1145 |
| | 0.000089825 | 750.4 | 363.967 | -2.06173 | 3.68008E-05 | 1396.75 | 615.733 | -2.26843 |
| | | | | | 0.000143565 | 1702.08 | 637.35 | -2.67055 |
| | | | | | 0.000388721 | 2781 | 1106.2 | -2.51401 |
| | 0.00819576 | 827.7 | 232.7 | -3.55694 | | | | |
| | 1.4889E-07 | 1862.78 | 840.5 | -2.21627 | 0.00411186 | 1618.7 | 531.6 | -3.04496 |
| | | | | | 2.87279E-06 | 2040.83 | 902.925 | -2.26024 |
| | 6.51916E-07 | 1309.73 | 525.5 | -2.49234 | | | | |
| | 0.000120923 | 567.967 | 267.35 | -2.12443 | 0.00689409 | 2730.03 | 674.5 | -4.04749 |
| | | | | | 0.000596992 | 3331.83 | 538.25 | -6.19011 |
| | | | | | 0.00620323 | 2579.3 | 489.275 | -5.27168 |
| | | | | | 0.00285416 | 1450.13 | 464.733 | -3.12036 |
| | 0.000648027 | 2620.58 | 987.45 | -2.65388 | | | | |
| -2.1668 | 4.0283E-07 | 1531.95 | 580.925 | -2.63709 | | | | |
| | 0.00642543 | 523.225 | 261.167 | -2.00341 | 1.2546E-07 | 709.5 | 2152.35 | 3.03362 |
| 4.36293 | 1.86982E-07 | 647.367 | 2097.2 | 3.23959 | 4.17448E-08 | 6048.73 | 1320.28 | -4.58141 |
| -5.2992 | 3.32885E-10 | 5077.5 | 787.567 | -6.44707 | | | | |
| | 9.94801E-06 | 973.275 | 202.2 | -4.81343 | 0.000133138 | 1414.7 | 543.167 | -2.60454 |
| | 8.70241E-05 | 717.075 | 290.833 | -2.46559 | 6.47312E-10 | 5230.08 | 18444 | 3.52653 |
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| 2.6205 | 1.67142E-21 | 4135.38 | 17078.4 | 4.12982 | 2.98203E-20 | 3825.4 | 13676.6 | 3.57521 |
| -2.3493 | 0.00683267 | 784.333 | #DIV/0! | #DIV/0! | | | | |
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| -2.439 | | | | | | | | |
| 2.84824 | 2.24525E-12 | 5980.6 | 30717.8 | 5.13623 | 2.02526E-19 | 3014.43 | 40990.6 | 13.5981 |
| | | | | | 1.05528E-06 | 12923.8 | 4176.25 | -3.0946 |
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| | 6.76714E-08 | 4953.5 | 15665.3 | 3.16246 | 3.47605E-08 | 4522.68 | 15053.7 | 3.3285 |
| -2.277 | 6.32781E-05 | 2679.2 | 1235.93 | -2.16777 | | | | |
| | 2.33552E-06 | 4961.33 | 12820.1 | 2.58401 | 5.89778E-16 | 1267.1 | 19943.7 | 15.7396 |
| -2.1498 | | | | | | | | |
| | 6.23689E-05 | 1085.73 | 393.833 | -2.75681 | 0.000554124 | 1706.1 | 734.425 | -2.32304 |
| | | | | | 0.00120842 | 1224.4 | 466.933 | -2.62222 |
| | 0.005675 | 763.3 | 164.7 | -4.63449 | 0.00497951 | 1898.43 | 790.75 | -2.4008 |
| | | | | | 2.21992E-06 | 1668.15 | 433.45 | -3.84854 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00486263 | 1058.65 | 417.967 | -2.53286 |
| -5.3334 | 0.000257835 | 1400.65 | 391.175 | -3.58062 | 0.000165419 | 1311.2 | 593 | -2.21113 |
| | | | | | 0.000412566 | 1052.58 | 332.85 | -3.16231 |
| | | | | | 2.96198E-05 | 1543.57 | #DIV/0! | #DIV/0! |
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| | 8.99114E-05 | 1031.88 | 260.667 | -3.9586 | 6.94222E-06 | 2623.63 | 616.925 | -4.25275 |
| | | | | | 0.0114955 | 2254.68 | 652.575 | -3.45504 |
| | 2.92987E-05 | 2059.58 | 6311.5 | 3.06447 | 1.15362E-07 | 2973.1 | 6985.43 | 2.34954 |
| | 8.3712E-07 | 2486.1 | 5231.43 | 2.10427 | 1.16903E-11 | 1623.6 | 6307.8 | 3.88507 |
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| | 3.45776E-05 | 1760.1 | 4328.25 | 2.45909 | 3.59051E-09 | 1641.9 | 4043.7 | 2.46282 |
| | 2.43696E-08 | 1671.85 | 603.7 | -2.76934 | | | | |
| -3.4704 | 3.6383E-06 | 1563.65 | 507.9 | -3.07866 | | | | |
| -2.3478 | 6.70245E-10 | 978.45 | 337.833 | -2.89625 | | | | |
| | | | | | 0.00525491 | 1634.9 | 700.125 | -2.33515 |
| -2.0904 | | | | | | | | |
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| | 0.0120469 | #DIV/0! | 2082.28 | #DIV/0! | | | | |
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| | | | | | 7.58026E-05 | 2666.4 | 6907.03 | 2.59039 |
| | | | | | 3.70419E-07 | 11540.9 | 37850.8 | 3.27972 |
| | | | | | 3.26119E-11 | 11277.7 | 43377.6 | 3.84632 |
| | | | | | 2.64641E-07 | 4570.83 | 1518.9 | -3.0093 |
| | | | | | 6.78964E-16 | 35082.3 | 100532 | 2.8656 |
| | | | | | 0.006023 | 1108.63 | 535 | -2.07221 |
| | | | | | 1.49835E-10 | 6661.98 | 14508.6 | 2.17782 |
| | | | | | 2.84169E-09 | 4936.03 | 13683.6 | 2.7722 |
| | 1.87988E-07 | 9364.5 | 23792.1 | 2.54067 | 4.10634E-15 | 3665.55 | 18449.1 | 5.0331 |
| 4.91197 | 1.43545E-05 | 1248.6 | 5672.78 | 4.54331 | 4.39765E-05 | 1806.17 | 7134.25 | 3.94994 |
| | | | | | 0.000646651 | #DIV/0! | 6108.53 | #DIV/0! |
| | | | | | 0.000260549 | 1340.33 | 251.2 | -5.33569 |
| | | | | | 0.000379607 | 2861.9 | 577.4 | -4.95653 |
| | 0.00157666 | 1168.15 | 376.967 | -3.09882 | 5.84092E-06 | 2779.65 | 637.333 | -4.36138 |
| | | | | | 0.0050872 | #DIV/0! | 3206.23 | #DIV/0! |
| | | | | | 1.48206E-06 | 1404.87 | #DIV/0! | #DIV/0! |
| | 6.6229E-08 | 987.3 | 301.567 | -3.2739 | 1.43877E-08 | 1290.8 | 422.1 | -3.05804 |
| | 3.99805E-07 | 1709.75 | 742.85 | -2.30161 | 4.05372E-09 | 3357.3 | 1163.23 | -2.88618 |
| | 0.000439776 | 809.6 | 350.767 | -2.30809 | 0.000137371 | 1167.9 | 441.3 | -2.6465 |
| | | | | | 0.00104243 | 973.167 | 316.8 | -3.07186 |
| -2.6034 | 4.47978E-06 | 1111.53 | 430.6 | -2.58134 | | | | |
| | | | | | | | | |
| | | | | | 3.07663E-06 | #DIV/0! | 1565.4 | #DIV/0! |
| | 0.000359707 | #DIV/0! | 617.9 | #DIV/0! | | | | |
| -2.6949 | 1.40115E-06 | 1434.35 | 567.3 | -2.52838 | 2.62298E-07 | 1352.98 | 462.375 | -2.92614 |
| -3.895 | 1.02425E-07 | 3843.15 | 623.7 | -6.16186 | | | | |
| | 3.73329E-08 | 1770.83 | 637.333 | -2.77849 | | | | |
| | | | | | 0.000138698 | 2152.7 | 5137.93 | 2.38674 |
| 47.9792 | 8.54138E-17 | 1616.35 | 99471.3 | 61.5407 | 8.32304E-16 | 5612.58 | 133590 | 23.8019 |
| | | | | | 0.000844748 | 1711.25 | 453.5 | -3.77343 |
| | 0.015833 | 778.6 | 330.6 | -2.35511 | 0.00275623 | 2065.58 | 590.975 | -3.4952 |
| | | | | | 3.24901E-06 | 1289.65 | 408.2 | -3.15936 |
| | | | | | 0.000276232 | 4034.5 | 556.5 | -7.24978 |
| | | | | | 0.0126956 | 3363.93 | 937.633 | -3.58768 |
| -2.4456 | 1.70006E-12 | 5328.68 | 1443.38 | -3.69182 | | | | |
| | 2.21005E-08 | 70608.5 | 28532.8 | -2.47464 | | | | |
| | | | | | 8.69821E-08 | 3908.78 | 9543.15 | 2.44147 |
| | 0.000583931 | 1242.8 | 212.8 | -5.84023 | 0.00037965 | 1941.43 | 477.65 | -4.06453 |
| | 2.73123E-05 | 1278.37 | #DIV/0! | #DIV/0! | | | | |
| | 0.00337788 | 1210.3 | 586.375 | -2.06404 | | | | |

| | | | | | | | | |
|-------------|-------------|---------|----------|----------|-------------|---------|---------|----------|
| | | | | | 0.000796362 | 1019.07 | #DIV/0! | #DIV/0! |
| | | | | | 0.000493672 | 4806.5 | 11476.4 | 2.38768 |
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| | | | | | 2.63487E-05 | 5414.58 | 12015 | 2.21902 |
| | | | | | 3.23211E-11 | 27182.3 | 88204 | 3.2449 |
| | | | | | 1.12569E-07 | 2694.18 | 5859.2 | 2.17477 |
| | | | | | 0.0018913 | #DIV/0! | 2194.73 | #DIV/0! |
| | | | | | 5.28689E-06 | 1344.1 | 505.05 | -2.66132 |
| | | | | | 0.00286996 | 2053.65 | 421.533 | -4.87186 |
| | | | | | 0.0191628 | 1139.8 | #DIV/0! | #DIV/0! |
| 1.01118E-05 | 1321.58 | 386.275 | -3.42133 | | 6.53211E-06 | 2198.73 | 662.733 | -3.31766 |
| | | | | | 4.10431E-06 | 660.35 | 239.55 | -2.75663 |
| 0.000185161 | 1036.1 | #DIV/0! | #DIV/0! | | | | | |
| | | | | | 3.02288E-11 | 4928.35 | 12631.4 | 2.56301 |
| | | | | | 0.015161 | 1481.6 | #DIV/0! | #DIV/0! |
| 1.45363E-07 | 8251.75 | 2505.88 | -3.29296 | | | | | |
| 0.00343592 | 668.8 | #DIV/0! | #DIV/0! | | 5.42286E-05 | 1541.83 | 511.2 | -3.01609 |
| 8.34512E-05 | 1155.1 | 400.575 | -2.8836 | | 0.00281287 | 1661.95 | 773.625 | -2.14826 |
| 0.00478959 | 1230.58 | 508.267 | -2.42112 | | | | | |
| 0.00138743 | 1101.7 | 500.9 | -2.19944 | | | | | |
| | | | | | 3.50378E-08 | 4215.35 | 10100.7 | 2.39617 |
| | | | | | 1.52625E-07 | 3495.93 | 8472.05 | 2.42341 |
| | | | | | 1.04316E-11 | 4937.83 | 12740.1 | 2.5801 |
| 3.81707E-09 | 8755.98 | 20293.1 | 2.31762 | | 2.90316E-13 | 5105.53 | 15415.2 | 3.01931 |
| 2.69293E-08 | 13418.7 | 32333.6 | 2.40959 | | 3.02937E-16 | 4689.85 | 26663.1 | 5.68527 |
| 5.95806E-08 | 12909.2 | 34014.1 | 2.63487 | | 8.43211E-15 | 4372.3 | 25915.9 | 5.92729 |
| | | | | | 0.0173275 | #DIV/0! | 1002.67 | #DIV/0! |
| | | | | | 0.00326828 | 2420.1 | 766.1 | -3.15899 |
| | | | | | 0.00321611 | 1494.1 | 557.967 | -2.67776 |
| | | | | | 0.000740724 | #DIV/0! | 2267.9 | #DIV/0! |
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| -3.243 | 4.9242E-08 | 3205.43 | 1005.9 | -3.18662 | 1.50851E-08 | 3531.1 | 1018.2 | -3.46798 |
| -4.2924 | 6.38479E-09 | 4418.9 | 952.425 | -4.63963 | 2.9812E-06 | 2923.63 | 1036 | -2.82203 |
| -3.6975 | 2.41529E-11 | 14632.4 | 4509.28 | -3.24495 | | | | |
| -4.9226 | 2.83591E-06 | 4512 | 1596.08 | -2.82693 | | | | |
| | | | | | 7.97594E-13 | 3834.1 | 10148.8 | 2.64698 |
| | | | | | 1.23976E-12 | 4888.9 | 14908.2 | 3.0494 |
| | | | | | 1.45949E-12 | 2925.3 | 10034.7 | 3.4303 |
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| -4.4013 | 9.08875E-09 | 2064.23 | 629.2 | -3.28071 | | | | |
| | 6.70076E-05 | 1286.33 | 397.1 | -3.2393 | 0.000449548 | 2225.4 | 794.875 | -2.79969 |
| -2.8249 | 0.000186398 | 12032.7 | 5578.38 | -2.15702 | 7.95933E-06 | 1728.5 | 4805.25 | 2.78001 |
| -2.9435 | 0.000938686 | 13042.6 | 4071.13 | -3.20367 | | | | |
| | | | | | 2.45424E-05 | 3017.43 | 1122.55 | -2.68802 |
| | | | | | 0.000015317 | 1249.7 | 346.5 | -3.60664 |
| -3.3376 | 6.14154E-10 | 19724 | 4941.35 | -3.99163 | 1.92928E-05 | 14563.9 | 6379.6 | -2.28288 |
| | | | | | 0.0084006 | 1457.23 | #DIV/0! | #DIV/0! |
| | 4.42959E-07 | 1413.93 | #DIV/0! | #DIV/0! | 5.27809E-14 | 4121.63 | #DIV/0! | #DIV/0! |
| 2.2955 | 1.37109E-07 | 4800.65 | 16188.9 | 3.37223 | | | | |
| | | | | | 0.00480538 | 862.667 | 350.067 | -2.46429 |
| | | | | | 0.000737618 | 1153.75 | 347.725 | -3.318 |
| | | | | | 3.2933E-08 | 2451.2 | 6620.95 | 2.70111 |
| -2.3165 | | | | | | | | |
| | | | | | 3.7422E-13 | 2664.65 | 7211.93 | 2.70652 |
| | | | | | 3.58846E-18 | 7552.3 | 23180.1 | 3.06927 |
| | 0.00949064 | 2758.98 | 6157.58 | 2.23183 | 2.32308E-05 | 1926.7 | 4775.8 | 2.47875 |
| | | | | | 2.40358E-15 | 14106.4 | 65287.6 | 4.62823 |
| | | | | | 0.00110808 | 2246.53 | 865.425 | -2.59587 |
| | | | | | 1.77195E-05 | 1859.73 | 886.9 | -2.09689 |
| | | | | | 5.04827E-14 | 6522.15 | 17073.6 | 2.61779 |
| | | | | | 1.24452E-12 | 3927.38 | 8961.95 | 2.28192 |
| | | | | | 0.0112164 | 1272.48 | 584.9 | -2.17554 |

| | | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|-------------|---------|----------|--------|
| -2.3191 | | | | | | 3.75795E-09 | 4649.63 | 13182.6 | 2.8352 |
| 2.99204 | 9.63809E-06 | 417 | 2223.83 | 5.33291 | 0.000245672 | 756.4 | 2432.78 | 3.21625 | |
| 5.09887 | 8.78419E-07 | 580.6 | 2589.9 | 4.46073 | 3.97071E-05 | 724.3 | 3045.7 | 4.20503 | |
| 2.49669 | 9.11823E-16 | 7196.88 | 43164.3 | 5.99764 | 5.50655E-18 | 6522.95 | 48718.1 | 7.46872 | |
| | 7.30652E-07 | 2077.6 | 7596.53 | 3.65639 | 2.55598E-09 | 1357.48 | 7000.5 | 5.157 | |
| | 1.12189E-05 | 1417.48 | 3724.65 | 2.62767 | | | | | |
| -2.4118 | 0.000883557 | 45145.3 | 11335.8 | -3.98253 | | | | | |
| -2.3617 | 0.00151711 | 48962.9 | 13616.7 | -3.59581 | | | | | |
| | 4.56971E-07 | #DIV/0! | 906.967 | #DIV/0! | 8.61832E-05 | 3744.48 | 1050.23 | -3.56537 | |
| | | | | | 1.73127E-09 | #DIV/0! | 1519.73 | #DIV/0! | |
| | | | | | 1.23297E-09 | 5681.6 | 12256.7 | 2.15727 | |
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| -3.6666 | 2.78757E-09 | 17360 | 3798.35 | -4.5704 | | | | | |
| -3.6151 | 4.82502E-11 | 20048.5 | 4577.18 | -4.3801 | | | | | |
| -3.3786 | 1.91827E-07 | 8569.45 | 2530.75 | -3.38613 | | | | | |
| | 0.00380907 | 836.967 | 390 | -2.14607 | | | | | |
| | | | | | 1.06731E-06 | 9728.35 | 3771.93 | -2.57914 | |
| -2.3864 | 0.000211698 | 1089.88 | 417.15 | -2.61267 | | | | | |
| | | | | | 0.000166034 | 1307.85 | 521.3 | -2.50882 | |
| | | | | | 0.000208839 | 1791.87 | 757.425 | -2.36573 | |
| | 0.000514462 | #DIV/0! | 855.667 | #DIV/0! | | | | | |
| | 0.00160627 | 518.9 | #DIV/0! | #DIV/0! | | | | | |
| | | | | | 4.02455E-05 | 802.633 | #DIV/0! | #DIV/0! | |
| | | | | | 5.97105E-10 | 22280.4 | 49374.8 | 2.21607 | |
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| #DIV/0! | 4.20109E-06 | 2300.1 | #DIV/0! | #DIV/0! | 5.06207E-10 | 2980.9 | 874.4 | -3.40908 | |
| | 3.2559E-06 | 1771.38 | #DIV/0! | #DIV/0! | | | | | |
| | 0.000143089 | 3129.83 | 1441.85 | -2.1707 | | | | | |
| | | | | | 5.7418E-07 | 2754.2 | 855.05 | -3.2211 | |
| -2.4122 | 9.31349E-07 | 3627.5 | 1301.1 | -2.78803 | | | | | |
| | | | | | 4.55539E-06 | 1572.83 | 737.567 | -2.13245 | |
| | 4.91139E-07 | 2751 | 896.875 | -3.06732 | | | | | |
| | 0.00373846 | 818.05 | 347.067 | -2.35704 | 0.000270489 | 1555.63 | 541.433 | -2.87316 | |
| | | | | | 0.000109419 | 1341.4 | 480.5 | -2.79168 | |
| | | | | | 5.59367E-05 | 1593.3 | 708.6 | -2.24852 | |
| #DIV/0! | | | | | | | | | |
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| | | | | | 1.25223E-06 | 4094.48 | 1071.55 | -3.82108 | |
| | | | | | 0.000369098 | 1574.93 | 579.167 | -2.71929 | |
| | | | | | 2.11005E-05 | #DIV/0! | 3170.25 | #DIV/0! | |
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| | 0.00205451 | 1519.43 | 720.733 | -2.10817 | | | | | |
| | | | | | 0.000860711 | #DIV/0! | 1311.8 | #DIV/0! | |
| -2.5511 | | | | | | | | | |
| | 0.000530623 | 685.025 | 189.2 | -3.62064 | 0.0218089 | #DIV/0! | 572.6 | #DIV/0! | |
| -2.2665 | 0.000895289 | 1767.38 | 735.533 | -2.40285 | | | | | |
| | 0.0106801 | 776.267 | 310.2 | -2.50247 | | | | | |
| | | | | | 0.000362155 | 1355.6 | 592.5 | -2.28793 | |
| | 5.80855E-06 | 717.15 | 220 | -3.25977 | 4.2541E-07 | 1664.48 | 378.533 | -4.39717 | |
| | 6.04034E-05 | 1626 | #DIV/0! | #DIV/0! | | | | | |
| | | | | | 0.000220608 | 1418.8 | 599.425 | -2.36693 | |
| | | | | | 0.0201774 | 751.95 | 305.775 | -2.45916 | |
| | 0.00238761 | 690.167 | 299.5 | -2.3044 | | | | | |
| | | | | | 0.000860717 | 8001.25 | 1681.33 | -4.7589 | |
| | | | | | 0.00124392 | 3924.53 | 906.7 | -4.32836 | |
| | | | | | 0.016233 | 1128.68 | 396.5 | -2.8466 | |
| | | | | | 1.52471E-10 | 9743.08 | 2129.23 | -4.57588 | |
| | 1.30811E-07 | 1798.43 | 669.975 | -2.68432 | 3.51979E-11 | 3906.78 | 956.8 | -4.08317 | |
| -2.476 | | | | | | | | | |
| | 3.00599E-06 | 3027 | 1284.48 | -2.3566 | | | | | |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 3.36739E-07 | 14005.9 | 30165.9 | 2.1538 |
| | 4.99191E-07 | 14630 | 32547.4 | 2.22471 | 2.55132E-12 | 5361.8 | 19331.3 | 3.60537 |
| | 0.000185456 | 789.033 | 275.6 | -2.86297 | | | | |
| | 1.07998E-07 | 3741.8 | 1588.63 | -2.35537 | | | | |
| | | | | | 0.000910068 | 1615.18 | 415.55 | -3.88684 |
| | 0.0155708 | 576.633 | 213.1 | -2.70593 | | | | |
| | | | | | 0.000172566 | 1740.38 | 807.1 | -2.15633 |
| | | | | | 3.96567E-06 | 1947.6 | 779.725 | -2.4978 |
| | 0.00117077 | 2432.18 | 705.35 | -3.44818 | 0.00005561 | 2547.63 | 1057.47 | -2.40918 |
| -2.3802 | 7.87375E-07 | 1238.73 | 344.9 | -3.59155 | 2.83206E-11 | 1606.27 | #DIV/0! | #DIV/0! |
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| | 0.00216972 | 1150.83 | 406.4 | -2.83175 | 9.40904E-07 | 1636.9 | 365.3 | -4.48097 |
| | | | | | 0.00072851 | 2303.15 | 724.85 | -3.17742 |
| | | | | | 0.00358946 | #DIV/0! | 1482 | #DIV/0! |
| | | | | | 0.0197684 | 797.2 | #DIV/0! | #DIV/0! |
| | | | | | 0.00661383 | 1452.13 | 587.45 | -2.47191 |
| | | | | | 0.015158 | 1427.7 | 401.367 | -3.5571 |
| | 4.09914E-06 | 1736.65 | 4389.13 | 2.52735 | 0.000020637 | 2001.9 | 4309.3 | 2.15261 |
| | 5.73682E-05 | 1383.93 | 637.725 | -2.1701 | | | | |
| | 3.89594E-05 | 2488.33 | 1169.2 | -2.12823 | | | | |
| 2.39136 | | | | | | | | |
| | | | | | 6.05097E-06 | 1878.43 | 755.525 | -2.48625 |
| -3.3854 | 4.87565E-06 | 1071.25 | 285.85 | -3.74759 | 1.27772E-05 | 894.025 | 338.8 | -2.6388 |
| -2.7565 | 0.000314017 | 872.95 | 380.225 | -2.29588 | 0.00419112 | 1126.17 | 548.167 | -2.05442 |
| | 7.89826E-07 | 1830.78 | 812.15 | -2.25423 | 1.43442E-13 | 3826.68 | 1014.35 | -3.77254 |
| | | | | | 1.44524E-10 | 4259.78 | 1412.6 | -3.01556 |
| | | | | | 2.85788E-06 | 2048.9 | 692.975 | -2.95667 |
| | 3.68827E-05 | 3686.7 | 1768.88 | -2.08421 | 2.09843E-08 | 3335.28 | 1252.75 | -2.66236 |
| | | | | | 3.01559E-05 | 1352.48 | 653.725 | -2.06887 |
| | | | | | 2.38208E-07 | 3337.2 | 790.05 | -4.22404 |
| | | | | | 0.000329425 | 1924.88 | 719.4 | -2.67567 |
| | | | | | 0.00639145 | 742.967 | 281.2 | -2.64213 |
| | | | | | 0.00179235 | 1025.5 | 487.4 | -2.10402 |
| | 0.00180798 | 1125.23 | 548.467 | -2.05158 | | | | |
| 3.28902 | 2.47159E-10 | 3747.33 | 22688.9 | 6.05469 | 2.7576E-10 | 3413.7 | 18030.2 | 5.28172 |
| | | | | | 5.53124E-05 | 1253.03 | 559.575 | -2.23926 |
| | 0.000346116 | 1546.45 | 702.275 | -2.20206 | | | | |
| | 0.00394345 | 1107.88 | 457.1 | -2.4237 | | | | |
| -2.4338 | | | | | | | | |
| -2.0788 | 1.1132E-08 | 4614.88 | 1745.33 | -2.64414 | 4.31265E-07 | 4696.55 | 2201.45 | -2.13339 |
| -2.382 | 7.23165E-07 | 4614.83 | 1773.7 | -2.60181 | 2.70064E-05 | 4601.08 | 2240.03 | -2.05403 |
| -2.3692 | | | | | | | | |
| | | | | | 4.52678E-09 | 3453.25 | 10778 | 3.12113 |
| -2.1115 | 6.05947E-07 | 2785.35 | 1286.8 | -2.16456 | | | | |
| | 0.00109021 | 835.825 | 414.6 | -2.01598 | | | | |
| | | | | | 5.88945E-06 | 3857.45 | 8204.23 | 2.12685 |
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| | 0.000563993 | 723.667 | 149.2 | -4.85031 | | | | |
| | 0.000670057 | 1412.53 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.000336663 | 1307.3 | 592.7 | -2.20567 |
| | | | | | 3.43845E-09 | 1466.6 | 3219.85 | 2.19545 |
| | | | | | 1.02763E-11 | 5614.73 | 13474.6 | 2.39986 |
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| 3.73828 | 5.11252E-15 | 2566.8 | 18274.2 | 7.11944 | 2.37557E-15 | 3199.43 | 21434.7 | 6.69955 |
| 3.89373 | 1.44343E-13 | 4072 | 34098.4 | 8.37386 | 8.6396E-15 | 3780.98 | 35568.4 | 9.4072 |
| | | | | | 7.69529E-12 | 3834.18 | 12465.7 | 3.25121 |
| | | | | | 0.019401 | 1112.07 | 486 | -2.2882 |
| | 2.80661E-05 | 1303.23 | 307.5 | -4.23816 | 0.0120014 | 1995.9 | 753.6 | -2.64849 |
| | 2.74989E-07 | 3209.98 | 1353.3 | -2.37196 | 1.97262E-06 | 3928.78 | 1883.9 | -2.08545 |
| | 0.000150702 | 1432.73 | 608.85 | -2.35317 | | | | |
| | 0.00174073 | 1029.85 | 343.95 | -2.99419 | 2.96368E-05 | 1547.2 | 589.6 | -2.62415 |
| | 2.35609E-06 | 1072.6 | 358.575 | -2.99128 | 3.79028E-05 | 1481.43 | 613.933 | -2.41301 |
| | 1.92268E-08 | 956.925 | 380.15 | -2.51723 | | | | |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| #DIV/0! | 1.7258E-07 | #DIV/0! | 3349.93 | #DIV/0! | 0.00839263 | #DIV/0! | 4384.78 | #DIV/0! |
| | | | | | 0.0110972 | #DIV/0! | 1772.95 | #DIV/0! |
| | | | | | 6.95273E-05 | 1910.45 | 498.7 | -3.83086 |
| | | | | | 0.00106112 | 1155.23 | 457.25 | -2.52646 |
| | | | | | 5.06041E-05 | 1847 | 643.65 | -2.86957 |
| | 0.000843902 | 731.425 | 308.15 | -2.3736 | | | | |
| | 7.77402E-05 | 1396.3 | 673.85 | -2.07212 | | | | |
| #DIV/0! | | | | | | | | |
| -2.4365 | 1.36746E-07 | 1002.85 | 372.5 | -2.69221 | | | | |
| | 0.000213201 | 22799.4 | 6235.55 | -3.65636 | 1.03527E-10 | 13637.4 | 1008.1 | -13.5278 |
| | 5.81878E-08 | 18309.7 | 7011.1 | -2.61153 | 8.79778E-08 | 11016.2 | 4438.78 | -2.48181 |
| | | | | | 1.2408E-08 | 24301.6 | 72141.3 | 2.96859 |
| | | | | | 7.81938E-09 | 21675.3 | 69576.9 | 3.20996 |
| 2.90591 | 4.04632E-08 | 4947.53 | 28409.4 | 5.74213 | | | | |
| -2.4823 | 0.000104991 | 1274.23 | #DIV/0! | #DIV/0! | | | | |
| #DIV/0! | | | | | | | | |
| 2.20851 | 8.62454E-08 | 24144.8 | 81666.6 | 3.38237 | 5.63112E-17 | 8405.03 | 101717 | 12.102 |
| | | | | | 6.5912E-06 | 2600.4 | 6226.75 | 2.39454 |
| | 0.00034427 | 17832.3 | 36027.5 | 2.02036 | 1.34883E-10 | 10703.3 | 46303.8 | 4.32611 |
| | 0.000888765 | 2542.73 | 887.633 | -2.86461 | 0.00062487 | 3082.33 | 1005.45 | -3.06562 |
| | | | | | 0.0139934 | 1893.58 | 429 | -4.41393 |
| | 0.000017795 | 1728.08 | 817.533 | -2.11377 | | | | |
| | | | | | | | | |
| -2.2285 | 7.77291E-09 | 6730.83 | 2020.47 | -3.33132 | | | | |
| -2.3429 | 2.81045E-10 | 7939.85 | 2649.3 | -2.99696 | | | | |
| -2.1302 | 1.1153E-08 | 4613.28 | 1877.13 | -2.45763 | | | | |
| | | | | | 0.00155642 | 1029.97 | 301.4 | -3.41727 |
| | | | | | 0.000050007 | 3317.6 | 695.675 | -4.76889 |
| | 0.0156442 | 1544.5 | 526.525 | -2.93338 | 0.000287145 | 3678.25 | 1005.05 | -3.65977 |
| | 5.57341E-06 | 2219.5 | 1076.23 | -2.0623 | 5.93277E-08 | 2858.08 | 1112.18 | -2.56981 |
| | | | | | 6.25538E-09 | 5705.08 | 15825.4 | 2.77392 |
| | | | | | 3.44846E-11 | 8576.88 | 30490.9 | 3.55502 |
| | | | | | 3.94237E-10 | 5160.38 | 19100.8 | 3.70143 |
| | | | | | 6.81946E-11 | 4233.88 | 18138.7 | 4.28418 |
| | 4.85595E-11 | 3911.6 | 7842.55 | 2.00495 | | | | |
| | 2.00162E-11 | 2192.33 | 4408.3 | 2.01079 | | | | |
| | 3.84531E-05 | 1705.4 | 684.167 | -2.49267 | 4.00221E-06 | 2278.53 | 1083.1 | -2.10371 |
| -2.0621 | 1.85037E-06 | 1290.1 | 616.9 | -2.09126 | 3.82204E-09 | 1817.98 | 833.5 | -2.18113 |
| | | | | | 0.0223281 | 918.475 | 146 | -6.29092 |
| | | | | | 0.000650898 | 4827.83 | 1420.38 | -3.39898 |
| -5.8719 | | | | | 2.44093E-06 | 2124.65 | 596.775 | -3.56022 |
| | | | | | 0.00703078 | 822.925 | 237.05 | -3.47152 |
| -2.1259 | 2.11542E-09 | 2672.5 | 867.05 | -3.08229 | 9.07961E-06 | 1851.13 | 872.875 | -2.12072 |
| | 0.0155093 | 701.8 | 279.675 | -2.50934 | 0.000155551 | 1492.68 | 482.425 | -3.09411 |
| | | | | | 0.00467863 | 1217.58 | 472.6 | -2.57633 |
| | 7.08652E-06 | 12265.7 | 26276.2 | 2.14226 | 4.01702E-11 | 5230.63 | 18632.6 | 3.56222 |
| | 0.000118512 | 2968.88 | 6694.78 | 2.25499 | | | | |
| | | | | | 1.50585E-07 | 1689.03 | 658.133 | -2.56639 |
| | | | | | 0.000333477 | 1147 | 148 | -7.75 |
| | | | | | 7.95868E-06 | 2213.25 | 4807.4 | 2.1721 |
| | | | | | | | | |
| | | | | | 1.09238E-05 | 1238.25 | 3927.08 | 3.17147 |
| | 3.75008E-07 | 29934.8 | 70133.9 | 2.34289 | 1.50174E-15 | 8891.73 | 55612.7 | 6.25444 |
| | 9.6606E-09 | 11119.9 | 33436.1 | 3.00689 | 2.67591E-15 | 3057.03 | 22421 | 7.33425 |
| | | | | | 0.0184662 | 522.6 | 143.9 | -3.63169 |
| | 0.0006117 | 918.5 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 1.0927E-10 | 2648.53 | 6557.63 | 2.47595 |
| | 0.0001875 | 1747.45 | 4250.15 | 2.4322 | | | | |
| | | | | | 7.15676E-12 | 36245.7 | 80062.3 | 2.20888 |
| | | | | | 1.27848E-12 | 34496.5 | 80709.7 | 2.33965 |
| | | | | | 0.000403143 | #DIV/0! | 1655.25 | #DIV/0! |
| | | | | | 0.000147182 | 4774.05 | 10185.3 | 2.13346 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 2.3063E-11 | 39963.3 | 95701.9 | 2.39475 |
| | | | | | 1.9594E-09 | 6727.15 | 19275.2 | 2.86528 |
| | | | | | 1.13313E-07 | 2784.45 | 8577.1 | 3.08036 |
| | 1.50861E-05 | 1049.8 | 505 | -2.07881 | | | | |
| | | | | | 1.04625E-13 | 10188.7 | 37362.8 | 3.66708 |
| | 0.00114456 | 985.667 | 491.5 | -2.00543 | | | | |
| -2.1977 | 1.11725E-05 | 1960.6 | 747.45 | -2.62305 | 0.000412035 | 2519.73 | 1106.65 | -2.27689 |
| -3.0724 | | | | | | | | |
| | | | | | 0.00823089 | 1782.7 | #DIV/0! | #DIV/0! |
| | | | | | 0.00299763 | 1383.17 | 555.033 | -2.49204 |
| | | | | | 1.89746E-05 | 5940.2 | 15444.2 | 2.59995 |
| | 2.23673E-05 | 11796.2 | 28426.3 | 2.40979 | 2.14366E-09 | 13618.9 | 51140.6 | 3.75513 |
| | 2.88224E-05 | 10047.7 | 24768.2 | 2.46506 | 7.03698E-09 | 12474.7 | 47100.4 | 3.77567 |
| | 3.08421E-06 | 9601.3 | 28566.4 | 2.97526 | 4.30952E-09 | 11922.8 | 50636.5 | 4.24702 |
| | 0.000566064 | #DIV/0! | 653.833 | #DIV/0! | | | | |
| 3.50751 | | | | | | | | |
| | | | | | 5.13438E-07 | 5848.35 | 15094.7 | 2.58101 |
| | 3.58323E-05 | 5210.95 | 11672.5 | 2.23999 | 1.66879E-07 | 3281.03 | 8485.48 | 2.58622 |
| | | | | | 0.00341967 | 1072.8 | 352.667 | -3.04197 |
| 3.64484 | 2.78852E-11 | 7848.03 | 39277.1 | 5.00471 | 2.78524E-13 | 6363.53 | 33352.2 | 5.24114 |
| | 3.09705E-05 | 1105.35 | 402.233 | -2.74803 | 0.000128943 | 1952.45 | 724.15 | -2.6962 |
| | | | | | 5.3093E-06 | 816.6 | #DIV/0! | #DIV/0! |
| | 0.000258265 | 961.425 | 399.6 | -2.40597 | 6.04429E-05 | 1652 | 547.775 | -3.01584 |
| | | | | | 0.000151288 | 1148.55 | 463.2 | -2.4796 |
| | | | | | 7.26987E-05 | 1267.83 | 555.275 | -2.28324 |
| | | | | | 5.09056E-08 | 5011.48 | 16290.6 | 3.25066 |
| | | | | | 0.000112675 | 1320.7 | 604.9 | -2.18334 |
| | | | | | 3.25839E-06 | 1367.5 | 423 | -3.23286 |
| | | | | | 0.000166432 | 2068.73 | 670.7 | -3.08444 |
| | | | | | 2.18662E-06 | 1427.73 | 507.6 | -2.8127 |
| | | | | | 0.013018 | 1232.53 | 503.633 | -2.44727 |
| | | | | | 1.41964E-09 | 2151.05 | 5369.43 | 2.49619 |
| | | | | | 9.86683E-10 | 5012.35 | 14134.7 | 2.81998 |
| -2.2641 | 1.98122E-08 | 1705.85 | 471.733 | -3.61613 | 4.76078E-05 | 1996.85 | 903.975 | -2.20897 |
| | | | | | 0.0134394 | 794.2 | 243.25 | -3.26495 |
| | 0.000149043 | 1197.3 | 358.05 | -3.34395 | 8.96644E-05 | 2222.2 | 788.45 | -2.81844 |
| | | | | | 7.50089E-05 | 1149.67 | 387.8 | -2.96459 |
| | | | | | 0.011107 | 929.7 | 402.433 | -2.3102 |
| | 4.56023E-06 | 7455.18 | 24428.4 | 3.2767 | 0.000534019 | 7839.2 | 18559.6 | 2.36754 |
| 2.36091 | 1.76041E-07 | 4672.05 | 18277.9 | 3.91217 | 0.000102693 | 5005.05 | 12755.3 | 2.54848 |
| | 2.57742E-06 | 13148.7 | 39479.5 | 3.00255 | 3.26607E-06 | 10383.8 | 31429.6 | 3.02678 |
| | 3.33971E-06 | 9218.2 | 22641.4 | 2.45617 | | | | |
| | 0.00875401 | 1022.6 | 480.125 | -2.12986 | 0.00266814 | 2125.03 | 868.725 | -2.44614 |
| | 2.16732E-07 | 17231.8 | 41505.6 | 2.40866 | 9.78959E-10 | 11574.7 | 36364.7 | 3.14176 |
| | | | | | 5.44494E-06 | 1291.85 | 294.9 | -4.38064 |
| | | | | | 0.00105581 | 976.6 | #DIV/0! | #DIV/0! |
| | | | | | 0.00211831 | 1428.4 | 232.2 | -6.15159 |
| | | | | | 0.00131688 | 3589.3 | 693.633 | -5.17464 |
| | | | | | 0.00215175 | 1045.55 | 294.2 | -3.55387 |
| | 6.26999E-06 | 1498.58 | 638.075 | -2.34859 | | | | |
| | | | | | 1.56187E-10 | 46071.1 | 142140 | 3.08522 |
| | 4.28932E-06 | 18958.1 | 9199.98 | -2.06067 | | | | |
| | 0.00114195 | 860.475 | 387.375 | -2.2213 | 8.77543E-06 | 2077.98 | 678.425 | -3.06294 |
| | 0.00305184 | 752.125 | 268.225 | -2.80408 | 0.000256065 | 1385.05 | 383.033 | -3.616 |
| | 6.65736E-05 | 2342.35 | 1166.78 | -2.00754 | | | | |
| 4.6324 | 2.66168E-06 | 622.75 | 2342.65 | 3.76178 | 3.70664E-06 | 744.6 | 3373.65 | 4.53082 |
| | 0.000283306 | 3817.33 | 7851.53 | 2.05681 | 2.10931E-08 | 3730.88 | 14033.1 | 3.76134 |
| | | | | | 0.000145811 | 2359.2 | 4922.78 | 2.08663 |
| | | | | | 0.0111455 | 959.467 | 316 | -3.03629 |
| | 2.88793E-06 | 2501.7 | 1002.85 | -2.49459 | | | | |
| | 1.61153E-07 | 129137 | 45109.3 | -2.86276 | | | | |
| | | | | | 0.00341436 | #DIV/0! | 959.95 | #DIV/0! |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 0.00035018 | 2741.25 | 6411.03 | 2.33872 | 0.00028109 | 2115.95 | 4657.05 | 2.20093 |
| | | | | | 0.0093831 | 1747.38 | 599.4 | -2.91521 |
| | | | | | 1.02218E-07 | 2378.15 | 5035.33 | 2.11733 |
| | | | | | 4.38694E-13 | 5806.65 | 20352.8 | 3.50508 |
| | | | | | 4.90668E-08 | 1330.3 | 2994.88 | 2.25128 |
| | | | | | 1.78046E-06 | 2063.15 | 4729.45 | 2.29234 |
| | 3.84068E-05 | 1180.5 | 503.65 | -2.34389 | 2.42275E-08 | 3431.78 | 978.425 | -3.50745 |
| | | | | | 0.000775603 | 3630.68 | 1561.53 | -2.32508 |
| 4.8526 | 0.0122557 | 961.775 | 2017.63 | 2.09781 | | | | |
| | | | | | 0.00279111 | 1037.45 | 275.9 | -3.76024 |
| 2.55649 | 1.06882E-08 | 5016.65 | 30323.3 | 6.04453 | 1.07877E-15 | 2583.05 | 55955.5 | 21.6626 |
| -2.0785 | | | | | | | | |
| | | | | | 2.58958E-09 | #DIV/0! | 4386.15 | #DIV/0! |
| | | | | | 0.000933116 | 1020.35 | 373.533 | -2.73162 |
| | | | | | 6.62863E-14 | 3510.35 | 12673.2 | 3.61022 |
| -2.2774 | | | | | | | | |
| | 1.85418E-07 | 5546.83 | 2523.6 | -2.19798 | 4.26633E-08 | 6885.93 | 2850.93 | -2.41533 |
| -3.4943 | 5.26834E-05 | 3413.03 | 1196.13 | -2.8534 | | | | |
| | 0.000147512 | 1801.58 | 860.267 | -2.09421 | | | | |
| | | | | | 0.0128996 | #DIV/0! | 3967.23 | #DIV/0! |
| -2.0565 | 2.63744E-06 | 1954.9 | 723.85 | -2.7007 | 5.5427E-09 | 3502.63 | 947.55 | -3.69651 |
| | 0.000313957 | 574.025 | 265.333 | -2.16341 | | | | |
| 2.08531 | 1.16712E-07 | 5490.43 | 14415 | 2.62548 | 1.96458E-09 | 5062.65 | 15685.5 | 3.09827 |
| -2.9809 | 3.99412E-05 | 3500.35 | 1244.63 | -2.81235 | 0.00208436 | 3565.55 | 1669.35 | -2.13589 |
| | | | | | 5.79934E-05 | 1719.93 | 446.267 | -3.85405 |
| | | | | | 0.0017205 | 1953 | #DIV/0! | #DIV/0! |
| -2.1886 | | | | | | | | |
| | 2.33044E-07 | 7052.1 | 3227.28 | -2.18516 | 6.17206E-06 | 11196.7 | 5558.98 | -2.01416 |
| 2.08249 | 8.4191E-09 | 3504.73 | 12610.5 | 3.59815 | 1.31812E-06 | 2987.43 | 7837.43 | 2.62347 |
| | | | | | 0.00728373 | 1314.03 | #DIV/0! | #DIV/0! |
| | 0.00017015 | 5732.98 | 12011 | 2.09508 | 8.78332E-07 | 2664.25 | 8981.25 | 3.37102 |
| | | | | | 1.27002E-06 | 1806.9 | 710.8 | -2.54207 |
| | 1.02931E-05 | 3040.38 | 6485.18 | 2.13302 | | | | |
| | | | | | 0.00640595 | 4903.23 | 2421.25 | -2.02508 |
| | | | | | 7.06705E-12 | 8167.9 | 24144.6 | 2.95604 |
| | 2.8917E-06 | 8448.3 | 17603.1 | 2.08362 | 1.51765E-12 | 3263.98 | 12189.7 | 3.73462 |
| | | | | | 2.98446E-06 | 1302.43 | 498.8 | -2.61112 |
| | 0.000990159 | 679.9 | 203.1 | -3.34761 | 8.8052E-07 | 1505 | 356.2 | -4.22515 |
| | | | | | 0.0011466 | 1428.67 | 352 | -4.05871 |
| | 0.00208571 | 1578.18 | 375.9 | -4.19839 | 0.000288734 | 1111.68 | 297.433 | -3.73756 |
| | 0.00145227 | 683.2 | 256.167 | -2.66701 | 0.0111114 | 2710.78 | 955.125 | -2.83814 |
| | 0.00147031 | 505.675 | 180.5 | -2.80152 | | | | |
| | 2.23946E-05 | 1664.75 | 540.733 | -3.07869 | 2.25066E-11 | 9872.05 | 28569.5 | 2.89398 |
| | | | | | 2.05636E-10 | 5912.3 | 1103.25 | -5.35898 |
| | | | | | 0.00169314 | 2479.1 | 749 | -3.30988 |
| | 9.03038E-07 | 3067.03 | 9541.03 | 3.11084 | 1.50098E-09 | 2112.37 | 6796.3 | 3.21739 |
| | | | | | 0.000682137 | 1152.03 | 516.867 | -2.22886 |
| | | | | | 0.000763844 | 2490.13 | 631.2 | -3.94506 |
| | | | | | 0.00100835 | 1363.47 | 557 | -2.44788 |
| | | | | | 0.00406385 | 3060.07 | 1003.2 | -3.05031 |
| | | | | | 0.00277631 | 1741.03 | 703.325 | -2.47543 |
| | | | | | 2.74838E-10 | 4020.9 | 8326.88 | 2.0709 |
| | | | | | 3.53219E-05 | #DIV/0! | 1044.8 | #DIV/0! |
| | | | | | | | | |
| | | | | | 0.00595346 | 4090.43 | 1851.83 | -2.20886 |
| -2.5369 | 2.87576E-08 | 3531.83 | 1098.83 | -3.21418 | 8.18959E-06 | 2490.48 | 1067.73 | -2.33251 |
| | | | | | | | | |
| | 1.77554E-05 | 1542.23 | 653.2 | -2.36103 | | | | |
| | 4.46721E-11 | 20175 | 45179.9 | 2.2394 | 9.05041E-07 | #DIV/0! | 2769.25 | #DIV/0! |
| | | | | | 2.52698E-18 | 10339.4 | 41527.6 | 4.01646 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 6.53584E-05 | 1543.53 | 4453.8 | 2.88547 | 9.25088E-09 | 616.8 | 3224.1 | 5.22714 |
| | | | | | 1.06441E-10 | 1691.4 | 9108.7 | 5.3853 |
| | 0.00681583 | 665.9 | #DIV/0! | #DIV/0! | 0.00587388 | 1698.1 | 475.7 | -3.56969 |
| | 0.00359654 | 1071.8 | #DIV/0! | #DIV/0! | 0.00242281 | 2890.68 | #DIV/0! | #DIV/0! |
| | | | | | 0.0126524 | 1612.1 | 443.375 | -3.63597 |
| | | | | | 0.003588 | 2017.27 | #DIV/0! | #DIV/0! |
| 2.36592 | 3.48206E-12 | 12674.8 | 49668.5 | 3.91869 | 5.47581E-18 | 6631.45 | 51961.8 | 7.83566 |
| 3.09571 | 3.33439E-12 | 4400.65 | 19870.6 | 4.51538 | 3.94744E-08 | 4873.45 | 12258.8 | 2.51543 |
| | 4.3824E-08 | 4998.65 | 16428.7 | 3.28663 | 1.02258E-10 | 2571 | 13045.7 | 5.07418 |
| 2.71953 | 3.17081E-06 | 1131.6 | 3147.3 | 2.78128 | | | | |
| 2.52419 | 8.70932E-08 | 21231.9 | 75569 | 3.55922 | 1.93026E-09 | 20440.2 | 88753.7 | 4.34211 |
| | | | | | 0.00336157 | #DIV/0! | 1967.7 | #DIV/0! |
| 2.94586 | 4.96078E-14 | 2493.15 | 13956.7 | 5.59802 | 1.63997E-09 | 3649.5 | 8293.4 | 2.27248 |
| | 5.80115E-08 | 4340.55 | 16426.8 | 3.7845 | 3.75766E-06 | 5203.53 | 16075.3 | 3.0893 |
| 2.97801 | 1.28884E-13 | 6834.38 | 34781.7 | 5.08923 | 2.68497E-13 | 5214.63 | 25090.5 | 4.81156 |
| | | | | | 0.000282616 | 847.6 | #DIV/0! | #DIV/0! |
| | | | | | 2.1974E-09 | #DIV/0! | 1563.43 | #DIV/0! |
| | 0.00653411 | 797.625 | 398.567 | -2.00123 | | | | |
| | 1.31817E-08 | 924.8 | 383.925 | -2.4088 | | | | |
| | 9.43898E-05 | 1664.3 | 702.7 | -2.36844 | 2.72765E-07 | 1877.48 | 612.5 | -3.06527 |
| | | | | | 1.00589E-07 | 1381.53 | 4716.78 | 3.41418 |
| | | | | | 0.0213865 | #DIV/0! | 1949.03 | #DIV/0! |
| 16.1679 | 2.30805E-06 | 2958.73 | 52539.8 | 17.7576 | 6.36082E-07 | 2946.83 | 43050.8 | 14.6092 |
| | | | | | 1.94276E-14 | 1306.95 | 4659.93 | 3.5655 |
| | 1.15005E-08 | 1926.9 | 3941.98 | 2.04576 | 1.21483E-11 | #DIV/0! | 3377.5 | #DIV/0! |
| | | | | | 1.35248E-05 | #DIV/0! | 1535.85 | #DIV/0! |
| | | | | | 1.51093E-06 | 1958.78 | 961.275 | -2.03768 |
| | 8.71479E-06 | 1037.93 | 353.825 | -2.93344 | 2.60811E-06 | 1946.85 | 641.025 | -3.03709 |
| | | | | | 1.30722E-08 | 1477.37 | 3151.03 | 2.13287 |
| | | | | | 2.65292E-09 | 2201.73 | 4759.15 | 2.16156 |
| | | | | | 1.23083E-06 | 947.5 | 2187.63 | 2.30884 |
| 5.78486 | | | | | 1.34581E-13 | 1555.9 | 11840.2 | 7.60984 |
| 4.41814 | 5.58726E-17 | 5157.08 | 39083.6 | 7.57863 | 1.17506E-18 | 4633.95 | 38741.6 | 8.36039 |
| | | | | | 5.61047E-06 | 6377.13 | 1188.18 | -5.36716 |
| | | | | | 0.0161227 | 1479.65 | 565.2 | -2.61792 |
| | | | | | 0.00174201 | 1547.47 | 564.6 | -2.74082 |
| | | | | | 0.00230767 | 1274.7 | 532.3 | -2.3947 |
| | 0.000115817 | 872.175 | 362.375 | -2.40683 | 4.92359E-06 | 1431.2 | 439.55 | -3.25606 |
| -5.768 | 8.56769E-06 | 3291.98 | 463.1 | -7.10856 | 0.00497467 | 1516.03 | #DIV/0! | #DIV/0! |
| #DIV/0! | 3.40068E-05 | 884.633 | #DIV/0! | #DIV/0! | | | | |
| | 3.93224E-06 | 33774.3 | 85097.5 | 2.51959 | 2.85237E-10 | 15985.7 | 65779.3 | 4.11489 |
| | 0.000406831 | 13402.6 | 5970.7 | -2.24473 | | | | |
| | | | | | 8.56264E-09 | 3249.8 | 8075.68 | 2.48498 |
| -2.2614 | | | | | | | | |
| | | | | | 1.84139E-07 | 2619.3 | 5848.93 | 2.23301 |
| -2.3395 | 5.80526E-06 | 1075.5 | 418.4 | -2.57051 | 6.69839E-08 | 1668.23 | 474.65 | -3.51464 |
| | 9.26359E-06 | 519.85 | 192.2 | -2.70473 | 1.50483E-05 | 1357.03 | 398.4 | -3.40619 |
| | | | | | 7.79707E-09 | 5388.45 | 11425.1 | 2.12029 |
| | | | | | 1.21372E-06 | 6396.8 | 1619.58 | -3.94968 |
| | 1.95174E-07 | 456.967 | 1907.98 | 4.1753 | 1.66079E-05 | #DIV/0! | 1473.93 | #DIV/0! |
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| | | | | | 0.00284995 | 858.425 | 321.65 | -2.66882 |
| | | | | | 0.00643148 | 1262.08 | 527.15 | -2.39415 |
| | 0.00382962 | 3821.63 | 927.1 | -4.12213 | | | | |
| | | | | | 0.0135128 | 2228.38 | 519.825 | -4.28678 |
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| -2.0811 | 3.14976E-08 | 1480.25 | #DIV/0! | #DIV/0! | 8.28351E-07 | 1837.63 | #DIV/0! | #DIV/0! |
| | 0.000280347 | 600.05 | 278.3 | -2.15613 | | | | |
| | 4.73502E-06 | 26712.3 | 11526 | -2.31757 | 3.78197E-05 | 48499.3 | 23174.4 | -2.0928 |
| | | | | | 0.000274797 | #DIV/0! | 3319.15 | #DIV/0! |
| | | | | | 0.000932676 | 2352.07 | #DIV/0! | #DIV/0! |
| | 0.000271237 | 8481.6 | 2963.28 | -2.86224 | 0.000303791 | 7118.05 | 2443.2 | -2.91341 |
| | 0.00287869 | 5627.35 | 2801.53 | -2.00867 | | | | |

| | | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|--|
| -2.0613 | | | | | | | | | |
| -2.0511 | | | | | | | | | |
| | 1.49989E-08 | 3772.07 | 1618.75 | -2.33023 | | | | | |
| -2.5529 | | | | | | | | | |
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| | 0.00509232 | 374.7 | 1147.48 | 3.06238 | | | | | |
| #DIV/0! | | | | | | | | | |
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| | 0.00176339 | 800.8 | #DIV/0! | #DIV/0! | | | | | |
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| -2.1746 | 0.00311032 | 1001.68 | 378.1 | -2.64923 | | | | | |
| | 4.63494E-08 | 777.925 | 168 | -4.63051 | 3.35089E-06 | 1270.2 | 391.975 | -3.24051 | |
| | 0.00112607 | 623.067 | 199.5 | -3.12314 | 0.00044144 | 1296.98 | 402.433 | -3.22283 | |
| | 1.74455E-07 | 1077.4 | #DIV/0! | #DIV/0! | 3.35103E-06 | 1806.4 | 685.7 | -2.63439 | |
| | 0.000502916 | 915.55 | 277.6 | -3.29809 | 0.00893353 | 1144.88 | 541 | -2.11622 | |
| | 0.000047416 | 1541.8 | 524.125 | -2.94166 | 1.75396E-06 | 3772.9 | 865.35 | -4.35997 | |
| | 0.00057091 | 945.567 | 329.45 | -2.87014 | 0.000020079 | 2734.83 | 817.167 | -3.34673 | |
| | 0.00354576 | 725.533 | 335.4 | -2.16319 | 0.000751489 | 1421.33 | 586 | -2.42548 | |
| | | | | | 1.76693E-06 | 1070.53 | #DIV/0! | #DIV/0! | |
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| | 9.70573E-08 | 1965.08 | 652.3 | -3.01253 | | | | | |
| | | | | | 0.00147963 | 2668.35 | 702.033 | -3.80089 | |
| | 2.28025E-06 | 1463.9 | 651.7 | -2.24628 | 4.32506E-06 | 1898.1 | 914.075 | -2.07653 | |
| | 0.000156108 | 777 | 284.8 | -2.72823 | | | | | |
| | 6.07766E-05 | 936.8 | 418.65 | -2.23767 | 7.40671E-06 | 2109.18 | 829.925 | -2.5414 | |
| | 0.000239743 | 747.167 | #DIV/0! | #DIV/0! | | | | | |
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| | 4.98196E-06 | 1675.73 | 717.733 | -2.33475 | 6.72502E-06 | 2606.05 | 1140.43 | -2.28516 | |
| | 4.68733E-06 | 2578.9 | 6500.25 | 2.52055 | | | | | |
| | 5.01257E-09 | 2104.8 | 5780.58 | 2.74638 | | | | | |
| | | | | | 0.0137287 | 1029.07 | 344.9 | -2.98367 | |
| | 0.0142704 | 628.85 | 289.675 | -2.17088 | | | | | |
| | | | | | 6.30587E-06 | 8167.23 | 3852.55 | -2.11995 | |
| | | | | | 3.07759E-08 | 4452.78 | 9612.75 | 2.15882 | |
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| 2.0155 | 3.29068E-09 | 3374.7 | 12179 | 3.60891 | 3.23049E-06 | #DIV/0! | 6656.68 | #DIV/0! | |
| | | | | | 9.89712E-07 | 1699.43 | 664.5 | -2.55746 | |
| -4.8077 | 2.09637E-09 | 3515.45 | 618.25 | -5.68613 | 5.12782E-08 | 2336.6 | 499.4 | -4.67881 | |
| -3.7187 | 1.27562E-08 | 2295.18 | 579.3 | -3.96198 | | | | | |
| | | | | | 0.00223806 | 1988.33 | 514.4 | -3.86533 | |
| | | | | | 0.00199124 | #DIV/0! | 1926.87 | #DIV/0! | |
| | | | | | 3.15968E-06 | 2818.35 | 1187.88 | -2.3726 | |
| 2.43242 | | | | | | | | | |
| | 0.00703873 | 532.625 | 226.2 | -2.35466 | | | | | |
| | | | | | 4.85336E-05 | 2381.88 | 676.633 | -3.52019 | |
| | 0.00408145 | 1945.18 | 3908.13 | 2.00914 | | | | | |
| | 0.00136606 | 971.275 | 2518.23 | 2.5927 | | | | | |
| | | | | | 0.000345618 | 2231.53 | 5082.55 | 2.27761 | |
| | 2.80387E-06 | 18659.6 | 39523.3 | 2.11812 | 1.62056E-12 | 9974.28 | 40935.8 | 4.10414 | |
| | 8.39354E-08 | 1760.08 | 707.45 | -2.48791 | | | | | |
| #DIV/0! | | | | | | | | | |
| | | | | | 0.00132127 | 757.9 | 1615.78 | 2.13191 | |
| | | | | | 4.23444E-11 | 3076.68 | 10139.1 | 3.29548 | |
| | | | | | 6.37907E-16 | 2902.73 | 13233 | 4.55883 | |
| | 1.92771E-05 | #DIV/0! | 1225.3 | #DIV/0! | 3.96369E-05 | #DIV/0! | 1681.6 | #DIV/0! | |
| | | | | | 7.69676E-14 | 8827.05 | 24176.5 | 2.73891 | |
| | | | | | 1.63432E-10 | 4497.1 | 13525.6 | 3.00763 | |
| | | | | | 1.20483E-20 | 6264.6 | 25948.3 | 4.14205 | |
| | | | | | 2.65062E-06 | 4119 | 1660.85 | -2.48006 | |
| | | | | | 0.000118665 | 11803.1 | 5005.93 | -2.35783 | |
| | | | | | 2.31065E-14 | 15425.1 | 43110.6 | 2.79484 | |
| | 0.000953908 | #DIV/0! | 3691.97 | #DIV/0! | 0.00264983 | #DIV/0! | 5397.15 | #DIV/0! | |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 9.97368E-05 | #DIV/0! | 2325.57 | #DIV/0! |
| 2.22771 | 0.000195379 | 1784.08 | 5500 | 3.08283 | | | | |
| | | | | | 1.67191E-08 | 1627.83 | 3982.5 | 2.4465 |
| | | | | | 0.000151455 | 987.275 | 353.675 | -2.79148 |
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| | | | | | 6.70568E-07 | 11257.7 | 28601.3 | 2.54059 |
| | | | | | 8.94967E-10 | 17519 | 53219.8 | 3.03784 |
| | | | | | 1.1622E-10 | 12383.2 | 40154.5 | 3.24267 |
| #DIV/0! | 6.86472E-05 | #DIV/0! | 1801.98 | #DIV/0! | 0.0180467 | #DIV/0! | 1436.43 | #DIV/0! |
| 8.47587 | 3.50531E-05 | 710.5 | 5688.08 | 8.00574 | 0.00755496 | #DIV/0! | 3420.93 | #DIV/0! |
| 4.73572 | 1.20076E-11 | #DIV/0! | 7020.85 | #DIV/0! | 3.66311E-08 | #DIV/0! | 5225.3 | #DIV/0! |
| 2.51378 | | | | | | | | |
| | | | | | 1.76042E-05 | 1834.08 | 406.675 | -4.50993 |
| | | | | | 0.00727148 | #DIV/0! | 1225.83 | #DIV/0! |
| | | | | | 2.3536E-12 | 5925.13 | 16083 | 2.71438 |
| | | | | | 1.40643E-10 | 5781.33 | 16124.7 | 2.78911 |
| | 8.11139E-05 | 1886.08 | 3973.75 | 2.10689 | 8.52811E-11 | 1273.3 | 3432.43 | 2.69569 |
| | | | | | 3.73155E-05 | 3496.28 | 1312.9 | -2.66302 |
| | | | | | 1.35057E-07 | 5079.63 | 1925.83 | -2.63764 |
| | | | | | 0.0166879 | 1224.85 | 450.25 | -2.72038 |
| | | | | | 0.022567 | 849.175 | 424.25 | -2.00159 |
| #DIV/0! | 0.000655098 | 578.525 | #DIV/0! | #DIV/0! | | | | |
| #DIV/0! | 1.17757E-05 | 1046.13 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.000684407 | #DIV/0! | 1956.2 | #DIV/0! |
| | 0.00196539 | 3992.8 | 1926.45 | -2.07262 | | | | |
| | | | | | 3.17679E-08 | 1468.75 | 4291.7 | 2.92201 |
| | | | | | 4.44315E-16 | 5697.88 | 42396 | 7.44067 |
| | | | | | 1.28452E-13 | 2230.25 | 20886.8 | 9.36523 |
| 2.11555 | 3.6698E-10 | 2328.95 | 6195.75 | 2.66032 | 4.32305E-11 | 2504.95 | 6857.5 | 2.73758 |
| | | | | | 0.00138483 | 1323.73 | 600.367 | -2.20487 |
| | 8.70566E-05 | 816.1 | 295.367 | -2.76301 | 6.90557E-05 | 1586.45 | 556.325 | -2.85166 |
| -2.1878 | 1.82424E-06 | 2044.9 | 899.35 | -2.27375 | 2.01876E-07 | 2431.58 | 971.2 | -2.50368 |
| | | | | | 0.00134062 | 1794.45 | 511.633 | -3.5073 |
| | | | | | 2.02518E-06 | 3927.08 | 1334.88 | -2.9419 |
| | 4.47949E-11 | 2333.33 | 655.933 | -3.55726 | 1.80148E-09 | 1838.77 | 637.1 | -2.88615 |
| | | | | | 0.00270011 | 1248.88 | 555.45 | -2.2484 |
| | 9.44211E-05 | 667.85 | 269.1 | -2.48179 | 2.57284E-06 | 1825.23 | 554.3 | -3.29286 |
| | | | | | 0.00364175 | 1249.73 | 476.6 | -2.62217 |
| | | | | | 2.77343E-05 | 1489.03 | 585.65 | -2.54252 |
| | 3.42949E-07 | 1435.5 | 584.55 | -2.45574 | | | | |
| | | | | | 4.12675E-08 | 1298.53 | 2707.98 | 2.08541 |
| | | | | | 0.000523643 | 5306.85 | 2209 | -2.40238 |
| | | | | | 1.47524E-06 | 3740.2 | 1575.58 | -2.37386 |
| | | | | | 0.000274053 | 4130.58 | 1885.3 | -2.19094 |
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| | | | | | 0.000659346 | 838.75 | 415.3 | -2.01962 |
| | | | | | 0.000657284 | 2293.17 | 972.9 | -2.35704 |
| | | | | | 0.0114061 | 928.85 | #DIV/0! | #DIV/0! |
| | 9.04842E-05 | 2442.95 | 1020.8 | -2.39317 | | | | |
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| -2.1713 | 4.34357E-06 | 2986.1 | 1157.88 | -2.57895 | | | | |
| -2.2185 | 4.13346E-07 | 829.65 | 376.5 | -2.20359 | | | | |
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| -2.2312 | 4.9051E-07 | 3495.7 | 1074.4 | -3.25363 | | | | |
| | | | | | 0.00521958 | 1720.03 | #DIV/0! | #DIV/0! |
| 13.4991 | 2.92279E-09 | 905.25 | 14388.7 | 15.8947 | 1.28889E-12 | 1613.5 | 15052.6 | 9.32913 |
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| | | | | | 3.54426E-09 | 4950.53 | 12088.3 | 2.44182 |
| | | | | | 1.44869E-10 | 2230.38 | 7457.13 | 3.34344 |
| | | | | | 1.78583E-07 | 20199.1 | 9934.1 | -2.03331 |
| | 3.42297E-05 | 2315.25 | 1137.5 | -2.03538 | 4.95356E-05 | 3163.15 | 1533.38 | -2.06287 |
| -3.0795 | | | | | | | | |
| | | | | | 2.8927E-06 | 1352.85 | #DIV/0! | #DIV/0! |
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| -2.5214 | | | | | | | | |
| | 0.00266083 | 654.133 | 196.4 | -3.33062 | 0.0215014 | 1134.38 | 520.433 | -2.17967 |
| | 1.21364E-08 | 1737.08 | 578 | -3.00532 | 2.19449E-08 | 2637.25 | 923.375 | -2.8561 |
| | 0.00316207 | 788.95 | 257.3 | -3.06627 | | | | |
| | | | | | 2.02114E-06 | 5432.78 | 2445.15 | -2.22186 |
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| | | | | | 0.00640215 | 1387.1 | 456.1 | -3.04122 |
| | | | | | 0.0188924 | #DIV/0! | 699 | #DIV/0! |
| #DIV/0! | 0.00188896 | 948.3 | 259 | -3.66139 | | | | |
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| | 7.96246E-06 | 6341.38 | 14016.3 | 2.21029 | 1.35455E-12 | 2067.43 | 9440.8 | 4.56645 |
| | 2.16439E-08 | 3266.8 | 9242.93 | 2.82935 | | | | |
| | 3.63152E-06 | 3882.8 | 8709.68 | 2.24314 | 1.53237E-07 | 1780.48 | 4454.4 | 2.5018 |
| 5.05208 | 6.09356E-18 | 3396.75 | 21336.1 | 6.28134 | 9.00095E-14 | 4217.08 | 14855.3 | 3.52264 |
| 3.28488 | 1.75359E-12 | 1828.53 | 10057 | 5.50005 | 1.70071E-13 | 1251.78 | 6416.55 | 5.12596 |
| 2.61662 | 4.12766E-11 | 1589.63 | 10010.9 | 6.29766 | 2.52242E-14 | 918.067 | 7284.18 | 7.93425 |
| 4.22159 | 6.30965E-06 | 2378.85 | 6115.03 | 2.57058 | 1.33889E-07 | #DIV/0! | 5860.63 | #DIV/0! |
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| 2.67055 | 9.17977E-18 | 4112.18 | 20875.1 | 5.0764 | 9.71857E-18 | 4198.83 | 20088.6 | 4.78434 |
| 4.2626 | 0.0130758 | #DIV/0! | 1270.65 | #DIV/0! | | | | |
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| | | | | | 1.68006E-10 | 186325 | 85435.8 | -2.18087 |
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| | 0.00215597 | 1426.2 | 386.633 | -3.68877 | 3.07047E-05 | 2259.35 | 778.95 | -2.90051 |
| | 0.0131882 | 5048.98 | 1668.25 | -3.02651 | 2.10982E-05 | 4696.33 | 708.167 | -6.63167 |
| | 2.12961E-07 | 9408.58 | 2590.45 | -3.63202 | 6.54457E-08 | 4641.38 | 1159.6 | -4.00257 |
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| | | | | | 0.0157925 | 1599.2 | 298.4 | -5.35925 |
| 2.22807 | | | | | | | | |
| | 0.000181303 | 2160.13 | 958.65 | -2.2533 | | | | |
| | | | | | 0.00357075 | 891.925 | 247.9 | -3.59792 |
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| | 4.70633E-05 | 948.825 | 472.425 | -2.00841 | | | | |
| -2.0526 | | | | | | | | |
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| | 7.59058E-06 | 12249.5 | 5527.55 | -2.21608 | | | | |
| -2.1571 | | | | | | | | |
| | | | | | 0.00850987 | 2271.53 | 1135.3 | -2.00081 |
| | | | | | 0.00490715 | 793.033 | 170.367 | -4.65486 |
| | | | | | 0.00220458 | 1941 | 507.2 | -3.82689 |
| | | | | | 0.00130413 | 1411.88 | 353.367 | -3.9955 |
| | | | | | 0.0143473 | 978.667 | #DIV/0! | #DIV/0! |
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| | 0.00118163 | 8566.15 | 3750.45 | -2.28403 | 6.17982E-05 | 14590.8 | 5229.1 | -2.7903 |
| 4.48736 | 0.00282667 | 983.05 | 3526.15 | 3.58695 | | | | |
| | | | | | 3.87108E-08 | 1846.48 | 798.6 | -2.31214 |
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| | 2.39017E-07 | 1672.7 | 758.05 | -2.20658 | 1.11898E-10 | 2793.93 | 882.025 | -3.16763 |
| | 0.000255844 | 545.3 | #DIV/0! | #DIV/0! | | | | |
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| | 1.12097E-05 | #DIV/0! | 1225.93 | #DIV/0! | 1.56925E-06 | #DIV/0! | 2206.53 | #DIV/0! |
| | 0.000579329 | 921.05 | 346.2 | -2.66046 | 3.93271E-05 | 1458.5 | 590.4 | -2.47036 |
| | | | | | 0.000117099 | 1878.95 | 692.2 | -2.71446 |
| | | | | | 0.000582209 | 1132.47 | 387 | -2.92627 |
| | 0.000142681 | 542 | 225.95 | -2.39876 | 0.000119819 | 1214.33 | 302.225 | -4.01795 |
| | | | | | 0.000523349 | 1216.2 | 422.7 | -2.87722 |
| | | | | | 0.0106967 | 980.067 | 306.9 | -3.19344 |
| | | | | | 1.10663E-05 | 1518.93 | 560.975 | -2.70765 |
| -2.3196 | 3.44998E-06 | 2373.2 | 573.6 | -4.13738 | | | | |
| | | | | | 0.0167664 | 1370.53 | #DIV/0! | #DIV/0! |
| | | | | | 0.000910882 | 811.9 | 251.5 | -3.22823 |
| | | | | | 7.34829E-07 | 7689.7 | 2626.6 | -2.92763 |
| | | | | | 0.0027774 | 1279.3 | 339.3 | -3.77041 |
| | | | | | 4.75592E-06 | 2308.6 | 975.8 | -2.36585 |
| | 4.18491E-12 | 6125.65 | 20191.5 | 3.29622 | 1.38056E-14 | 3625.4 | 15020.5 | 4.14314 |
| | | | | | 6.11126E-08 | #DIV/0! | 1510.77 | #DIV/0! |
| | | | | | 8.81092E-05 | 811.667 | #DIV/0! | #DIV/0! |
| | | | | | 8.83041E-06 | 4070.6 | 671.2 | -6.06466 |
| | 1.68956E-05 | 1771.5 | 21470.2 | 12.1198 | 6.34729E-05 | 4160.08 | 48237.6 | 11.5954 |
| | 2.79811E-05 | #DIV/0! | 5596.5 | #DIV/0! | 4.89307E-05 | 1902.3 | 11465.7 | 6.02727 |
| | | | | | 0.000033512 | 3787.75 | 48737.6 | 12.8672 |
| #DIV/0! | | | | | | | | |
| #DIV/0! | 1.51944E-05 | #DIV/0! | 1197.65 | #DIV/0! | 2.14179E-06 | #DIV/0! | 2026.3 | #DIV/0! |
| | | | | | 4.82212E-10 | 3061.38 | 7767.25 | 2.53718 |
| | | | | | 3.06083E-11 | #DIV/0! | 4928.2 | #DIV/0! |
| | | | | | 5.69352E-07 | 2258.3 | 642.233 | -3.51632 |
| | | | | | 3.22153E-08 | 3343.88 | 7556.95 | 2.25994 |
| | 0.000232653 | 772.275 | 291.2 | -2.65204 | | | | |
| | | | | | 1.17479E-12 | 3858.48 | 14280.1 | 3.70098 |
| | | | | | 0.000925969 | 1739.98 | 708.3 | -2.45655 |
| | | | | | 0.000186417 | 1050.8 | 358.35 | -2.93233 |
| | | | | | 6.95257E-06 | 3146.98 | 9375.85 | 2.97932 |
| 9.72726 | 2.58086E-06 | 1028.1 | 15082 | 14.6698 | 5.33552E-08 | 3783.7 | 9793.6 | 2.58837 |
| 10.8421 | 8.14622E-07 | #DIV/0! | 6268.8 | #DIV/0! | | | | |
| | | | | | 6.47722E-13 | 1432.3 | 3331.3 | 2.32584 |
| | | | | | 3.26509E-17 | 2048.58 | 5084.73 | 2.48208 |
| | | | | | 2.51727E-09 | 4445.5 | 13088.2 | 2.94415 |
| | | | | | 0.00405178 | 679.4 | 335.2 | -2.02685 |
| | | | | | 1.02374E-09 | 4731.6 | 11828.6 | 2.49992 |
| | | | | | 2.29579E-06 | 1939.9 | 4008.73 | 2.06646 |
| | | | | | 2.07704E-08 | #DIV/0! | 2949.95 | #DIV/0! |
| | 4.21438E-08 | 1652.3 | 434.575 | -3.80211 | 1.3253E-10 | 4171.35 | 733.475 | -5.68711 |
| | | | | | | | | |
| | | | | | 6.45206E-05 | 1215.07 | 432.6 | -2.80875 |
| 9.66461 | 7.35509E-11 | 1013.75 | 5268.18 | 5.19672 | 2.03613E-11 | #DIV/0! | 7735.03 | #DIV/0! |
| 3.20556 | 2.59461E-11 | 4369.3 | 18603.4 | 4.25775 | 7.73678E-13 | 2752.88 | 13397.8 | 4.86685 |
| | 0.000721275 | 906.233 | #DIV/0! | #DIV/0! | 0.00983514 | 1699.45 | 469 | -3.62356 |
| | | | | | 0.0152316 | #DIV/0! | 3322.15 | #DIV/0! |
| | 4.14746E-06 | 521.025 | #DIV/0! | #DIV/0! | 4.87967E-05 | 879.3 | 373.5 | -2.35422 |
| | 0.000062545 | 1249.25 | 617.275 | -2.02381 | 9.73837E-08 | 1981.75 | 843.775 | -2.34867 |
| | 0.000496666 | 781.667 | 317 | -2.46583 | | | | |
| | | | | | 0.00059942 | 1566.8 | 6197.23 | 3.95534 |
| -2.3107 | 2.18622E-07 | 17012.7 | 6660 | -2.55445 | | | | |
| -2.9095 | 6.82607E-05 | 6930.2 | 2928.18 | -2.36673 | | | | |
| | 0.000248624 | 58435.3 | 22731.4 | -2.57069 | | | | |
| | 0.00699271 | 9406.13 | 3771.7 | -2.49387 | 0.0109633 | 8633.38 | 3708.78 | -2.32782 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00551634 | 2809.3 | 1222.38 | -2.29823 |
| 19.3782 | 2.47621E-14 | 1514.88 | 55375.7 | 36.5546 | 1.55324E-15 | 5535.15 | 69138 | 12.4907 |
| | | | | | 0.021043 | #DIV/0! | 887.933 | #DIV/0! |
| 3.86438 | 1.0135E-08 | 2386.23 | 13120.8 | 5.49855 | 1.04427E-11 | 2519.6 | 21600.7 | 8.57307 |
| 3.65114 | 1.20086E-10 | 4302.85 | 23639.3 | 5.49387 | 2.25588E-14 | 4431.55 | 40763 | 9.19836 |
| 3.61829 | 1.04425E-15 | 3924.78 | 47161.9 | 12.0165 | 1.06485E-17 | 4380.28 | 69738 | 15.9209 |
| | 0.00144586 | 809.85 | 377.925 | -2.14289 | | | | |
| | | | | | 3.78292E-09 | 42447.9 | 94345.6 | 2.22262 |
| | | | | | 1.51123E-12 | 24338.8 | 63526.2 | 2.61009 |
| | 2.5686E-08 | 3835.73 | 7790.8 | 2.03112 | 3.15425E-10 | 3322.23 | 6986.88 | 2.10307 |
| -2.3318 | | | | | | | | |
| | 0.000281959 | 12975.9 | 26359.1 | 2.03138 | 7.03024E-10 | 5343.38 | 19168.4 | 3.58733 |
| | | | | | 1.68995E-10 | 13430 | 59142.6 | 4.40377 |
| | 0.000517944 | 3519.05 | 1043.65 | -3.37187 | 4.23034E-09 | 3876.25 | 870.5 | -4.4529 |
| | | | | | 1.79032E-13 | 2664.83 | #DIV/0! | #DIV/0! |
| | 1.85657E-10 | 5426.63 | 14786.8 | 2.72485 | 1.72092E-13 | 3325.13 | 11383.5 | 3.42347 |
| | | | | | 9.00044E-10 | 4655.95 | 10561.4 | 2.26836 |
| | | | | | 0.000242758 | 2425.5 | 942.4 | -2.57375 |
| | 0.000108762 | 1616.93 | 683.025 | -2.3673 | | | | |
| | 4.27012E-06 | 2364.58 | 9927.5 | 4.19843 | 0.000289067 | 2680.5 | 7638.78 | 2.84976 |
| | 0.000273039 | 3115.38 | 9420.03 | 3.02372 | 0.000320936 | 2982.98 | 9274.18 | 3.10904 |
| | 5.49793E-05 | 5183.63 | 20651.4 | 3.98397 | 0.000219951 | 4931.53 | 17086.2 | 3.46468 |
| 2.0019 | | | | | | | | |
| | 4.10194E-08 | 796.8 | 221.3 | -3.60054 | 1.4902E-09 | 2073.8 | 609.167 | -3.40432 |
| | 2.48143E-05 | 1128.65 | 511.8 | -2.20526 | 1.11373E-05 | 2264.28 | 730.775 | -3.09846 |
| -2.1105 | | | | | | | | |
| | | | | | 5.75297E-10 | 13625.8 | 34413.6 | 2.52561 |
| | | | | | 4.97501E-12 | 10544 | 35022.6 | 3.32156 |
| | | | | | 1.1756E-09 | 1946.43 | 4765.98 | 2.44858 |
| | | | | | 3.81282E-11 | 4949.8 | 14546 | 2.9387 |
| | 0.000162814 | 3101.45 | 7937.1 | 2.55916 | | | | |
| | | | | | 7.13547E-06 | 1922.4 | 746.2 | -2.57625 |
| | 0.0102023 | 667.367 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.020403 | 1493.1 | 4956.48 | 3.31959 |
| | 0.012776 | 525.2 | 123.2 | -4.26299 | | | | |
| | | | | | 5.78416E-09 | 1622.38 | 4131.33 | 2.54647 |
| -2.865 | | | | | | | | |
| -2.452 | 1.82702E-10 | 2152.25 | 551.675 | -3.9013 | 1.93774E-09 | 2046.93 | 631.275 | -3.24253 |
| | 3.20061E-09 | 1181.63 | #DIV/0! | #DIV/0! | 4.20019E-08 | 1760.75 | #DIV/0! | #DIV/0! |
| | 0.000150224 | 1797.38 | 819.4 | -2.19353 | | | | |
| #DIV/0! | | | | | | | | |
| | | | | | 8.3674E-10 | 2882.78 | 1016.6 | -2.8357 |
| | | | | | 1.52348E-09 | 5534.53 | 2337.35 | -2.36786 |
| | | | | | 4.41359E-13 | 3965.95 | 11313.9 | 2.85277 |
| | | | | | 3.26372E-15 | 5809.4 | 17595.7 | 3.02884 |
| | | | | | 0.0159777 | 1149.48 | 463.4 | -2.48052 |
| | | | | | 0.000792745 | 2183.83 | 786.333 | -2.77724 |
| | | | | | 6.28753E-06 | 2104.65 | 526.85 | -3.99478 |
| | | | | | 0.000207014 | 1415.6 | 510.5 | -2.77297 |
| | | | | | 8.79521E-07 | 4306.38 | 954.75 | -4.51047 |
| | | | | | 0.000143174 | 1752.3 | 682.425 | -2.56775 |
| | | | | | 0.00221936 | 1541 | 693.175 | -2.2231 |
| | 0.00217224 | 2181.83 | 960.2 | -2.27226 | | | | |
| | 0.00001916 | 7814.15 | 2738.38 | -2.85357 | 1.08488E-08 | 6040.03 | 1329.25 | -4.54393 |
| | 0.00339267 | 5105.1 | 2151.8 | -2.37248 | 0.00174729 | 3189.7 | 1248.23 | -2.55539 |
| | 0.00103347 | 960.225 | 454.85 | -2.11108 | 0.000017551 | 1344.2 | 630.95 | -2.13044 |
| 2.96616 | 4.96353E-13 | 1754.53 | 6357.05 | 3.62323 | 2.82073E-14 | 1651.88 | 6591.05 | 3.99004 |
| 2.70395 | 9.67293E-15 | 4208.98 | 14588.2 | 3.46597 | 5.93215E-19 | 3776.85 | 18198.9 | 4.81855 |
| 3.46552 | 1.80687E-16 | 2188 | 10968.3 | 5.01295 | 8.57042E-19 | 2470.57 | 12411.9 | 5.02389 |
| | 4.82376E-07 | 5886.23 | 2389.75 | -2.46311 | 1.16349E-08 | 3804.43 | 1341.43 | -2.83609 |
| | | | | | 5.77627E-05 | 6142 | 2542.45 | -2.41578 |
| | | | | | 0.00461984 | 942.433 | #DIV/0! | #DIV/0! |
| | | | | | 9.31517E-05 | 977.667 | 396.733 | -2.46429 |

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| | 3.34961E-05 | 1069.05 | 484.45 | -2.20673 | 0.000364166 | 1309.83 | 647.2 | -2.02383 |
| | | | | | 0.0190443 | #DIV/0! | 1660.7 | #DIV/0! |
| | 1.1024E-06 | 5752.48 | 19034 | 3.30884 | | | | |
| 2.10822 | | | | | | | | |
| | | | | | 1.08849E-05 | 2823.55 | 615.5 | -4.58741 |
| 5.73378 | 1.31283E-13 | 3895.08 | 41692.1 | 10.7038 | 8.40813E-16 | 3135.4 | 38898.8 | 12.4063 |
| 7.8279 | 9.11362E-10 | 957.8 | 10752.1 | 11.2258 | 4.46564E-12 | #DIV/0! | 8667.58 | #DIV/0! |
| | 5.44203E-07 | 2850.58 | 6509.88 | 2.28371 | 1.52491E-07 | 2073.25 | 4987.88 | 2.40582 |
| | 0.00125624 | 1572.85 | 4309.13 | 2.73969 | 1.26783E-10 | #DIV/0! | 3325.9 | #DIV/0! |
| | 6.94101E-06 | 2110.58 | 413.5 | -5.10417 | 8.5763E-06 | 4967.73 | 833.75 | -5.95829 |
| | | | | | 0.00305884 | 1748.68 | 654.775 | -2.67065 |
| -2.3091 | | | | | | | | |
| | | | | | 0.00667984 | 2112.27 | #DIV/0! | #DIV/0! |
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| | 9.38667E-07 | 1496 | 3659.4 | 2.44612 | | | | |
| | 4.24995E-07 | 1336.8 | 4657.2 | 3.48384 | | | | |
| | | | | | 0.0038404 | #DIV/0! | 1700.25 | #DIV/0! |
| | 5.76267E-05 | 981.1 | 2304.38 | 2.34877 | | | | |
| | | | | | 3.75704E-09 | 4722.98 | 10869.9 | 2.30149 |
| | | | | | 1.00001E-06 | 3122.25 | 8642.48 | 2.76803 |
| | | | | | 0.00400327 | 1292.53 | 378.133 | -3.41817 |
| | 0.000381845 | 503.175 | 202 | -2.49097 | 7.04313E-05 | 1037.28 | 341.767 | -3.03504 |
| | 0.000865872 | 650.9 | 289.1 | -2.25147 | 2.54956E-06 | 1408.53 | 559.4 | -2.51792 |
| | 0.000817128 | 720.85 | 300.967 | -2.39512 | | | | |
| | 0.00267283 | 610.875 | 264.867 | -2.30635 | 5.26493E-05 | 1319.13 | 327.95 | -4.02236 |
| | | | | | 2.51607E-09 | 3872 | 1712.63 | -2.26086 |
| 3.58933 | 5.37642E-05 | 1342.75 | 4890.45 | 3.64212 | 0.000305859 | 1374.17 | 5571.05 | 4.05413 |
| 4.51975 | 2.26186E-13 | 1184.05 | 11572.8 | 9.77393 | 1.36992E-12 | 1572 | 10724.5 | 6.82217 |
| 2.16475 | 0.00318534 | 722.15 | 1706.55 | 2.36315 | | | | |
| 2.99654 | | | | | | | | |
| | | | | | 0.00547116 | 778.2 | 261.2 | -2.97933 |
| | | | | | 0.0157795 | 1191.93 | 253.9 | -4.6945 |
| | 0.000813875 | 765.425 | 260.8 | -2.93491 | 0.00501846 | 1526.93 | 584.575 | -2.61203 |
| | 0.00360376 | 1272.33 | #DIV/0! | #DIV/0! | 0.000226315 | 1974.63 | 850.4 | -2.322 |
| | 0.000369513 | 2995.53 | 1283.68 | -2.33355 | 0.000982124 | 6264 | 3040.8 | -2.05998 |
| | 4.14883E-07 | 3212.13 | 6750.03 | 2.10142 | | | | |
| | | | | | 0.00948965 | 1081.23 | 480.6 | -2.24974 |
| | | | | | 3.63574E-05 | 3038.45 | 6870.8 | 2.26128 |
| | | | | | 1.88019E-06 | 3823.2 | 9289.53 | 2.42978 |
| | | | | | 0.00236519 | 1758.8 | 4651.6 | 2.64476 |
| 3.14742 | 1.07233E-15 | 1993.78 | 13212.1 | 6.62669 | 6.68018E-14 | 2154.3 | 10028.5 | 4.65512 |
| 3.57321 | 1.43579E-10 | 2034.1 | 15099.7 | 7.4233 | 2.35377E-12 | #DIV/0! | 11445.8 | #DIV/0! |
| 2.12707 | | | | | | | | |
| | 1.99231E-05 | 717.233 | #DIV/0! | #DIV/0! | 2.29846E-06 | 1655.78 | 322.5 | -5.13419 |
| | | | | | 0.000530769 | 2190.9 | 752 | -2.91343 |
| -2.5631 | | | | | | | | |
| -2.6769 | 3.30815E-05 | 919.7 | 351.575 | -2.61594 | | | | |
| | 0.00796062 | 728.533 | 282.733 | -2.57675 | 9.02421E-05 | 2016.13 | 578.2 | -3.4869 |
| | | | | | 7.34253E-05 | #DIV/0! | 1263.33 | #DIV/0! |
| | 1.54722E-05 | 902.55 | 362.8 | -2.48773 | | | | |
| | | | | | 0.00305515 | 1160.65 | 536.875 | -2.16186 |
| | | | | | 3.7152E-07 | #DIV/0! | 9825.28 | #DIV/0! |
| | 4.84266E-06 | 952.1 | 306.05 | -3.11093 | 0.000133552 | 1254.53 | 475.533 | -2.63814 |
| 2.24753 | 3.30426E-06 | 1111.7 | 3808.35 | 3.4257 | 2.27256E-06 | #DIV/0! | 3292.88 | #DIV/0! |
| 2.35763 | 6.78969E-05 | 1145.03 | 3187.6 | 2.78387 | | | | |
| 2.25831 | 3.97287E-09 | 2445.05 | 9253.25 | 3.78448 | 1.86174E-09 | 1990.45 | 7607.2 | 3.82185 |
| 2.14241 | 1.76942E-07 | 2770.13 | 7334.33 | 2.64764 | 2.56779E-11 | 2803.7 | 10729.7 | 3.82696 |
| 2.55227 | 4.54231E-07 | 1526.2 | 4142.73 | 2.71441 | 1.51101E-07 | 2291.43 | 6301.08 | 2.74985 |
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| 3.54056 | 0.000680705 | 1207.1 | 6115.28 | 5.06609 | | | | |
| | 8.49187E-05 | 1380.38 | 647.9 | -2.13054 | 1.5867E-07 | 3097.6 | 1035.97 | -2.99006 |
| | 2.01789E-05 | 541.95 | #DIV/0! | #DIV/0! | 0.000208904 | 1011.9 | 344.767 | -2.93503 |

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| | 0.00118215 | 1107.23 | 395.225 | -2.80151 | 3.05817E-06 | 2701.33 | 557.475 | -4.84564 |
| | | | | | 0.00306048 | 1723.35 | 519.85 | -3.31509 |
| | 0.00677697 | 989.433 | 274.7 | -3.60187 | 0.000237373 | 1547.95 | 572.267 | -2.70495 |
| -2.1566 | 9.77826E-06 | 7060.68 | 3232.13 | -2.18453 | | | | |
| -2.0521 | 1.98605E-09 | 21751.6 | 8015 | -2.71386 | 2.10174E-07 | 17417.1 | 7648.98 | -2.27705 |
| | 6.60771E-08 | 32549.2 | 12081.1 | -2.69422 | 6.93456E-07 | 54368.1 | 23644 | -2.29945 |
| | 5.57621E-09 | 3941.93 | 1545.38 | -2.55079 | 8.19914E-13 | 4719.03 | 1333.5 | -3.53883 |
| | 0.000570278 | 3748 | 1490.45 | -2.51468 | 0.000184877 | 4213.6 | 1644.33 | -2.56251 |
| 2.13141 | 7.76545E-09 | 25951.9 | 121237 | 4.67158 | 1.38025E-13 | 24975.4 | 181776 | 7.2782 |
| 2.79342 | 2.91255E-18 | 4240.85 | 30825.9 | 7.26881 | 2.4255E-20 | 3676.63 | 31225.9 | 8.49309 |
| 3.1173 | 4.73704E-13 | 10585.8 | 83208 | 7.86032 | 9.01139E-17 | 10399 | 121345 | 11.6689 |
| 3.5258 | 2.47243E-12 | 6410.48 | 56934 | 8.88141 | 1.07234E-16 | 5361.88 | 75804.2 | 14.1376 |
| 5.12335 | 6.13303E-07 | 556.95 | 3588.73 | 6.44353 | 1.58569E-12 | #DIV/0! | 6655.88 | #DIV/0! |
| #DIV/0! | | | | | 0.01906 | #DIV/0! | 1021.47 | #DIV/0! |
| -2.7809 | 8.34884E-08 | 3280.98 | 1154.3 | -2.84239 | 0.000027549 | 2266.35 | 1125.75 | -2.01319 |
| -2.3693 | 1.55967E-07 | 3149.83 | 1062.2 | -2.96538 | | | | |
| -2.0566 | 8.96672E-06 | 1561.93 | 667.15 | -2.34119 | | | | |
| -2.9815 | 4.13313E-09 | 4250.45 | 1017.3 | -4.17817 | 5.84024E-10 | 4940.08 | 1027 | -4.8102 |
| | 0.000348512 | 729.8 | 326.133 | -2.23774 | | | | |
| 3.51531 | 8.44755E-15 | 2507.8 | 9865.7 | 3.93401 | 5.17738E-13 | 2802.85 | 8650.85 | 3.08645 |
| -2.1304 | 4.79578E-06 | 1590.93 | 486.95 | -3.26712 | 0.000221787 | 1434.1 | 583.725 | -2.45681 |
| -2.2773 | 1.58291E-05 | 3536.7 | 1512.53 | -2.33826 | 8.26987E-05 | 3791.65 | 1613.38 | -2.35014 |
| -2.8961 | 2.15047E-05 | 6316.5 | 1947.2 | -3.24389 | 0.0017811 | 4308.65 | 2029.05 | -2.12348 |
| | 5.87311E-05 | 1863.58 | 615.625 | -3.02713 | 8.56634E-07 | 4524.08 | 1130.18 | -4.00299 |
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| | | | | | 0.000300537 | 4921.95 | 1170.25 | -4.2059 |
| | | | | | 0.00174765 | 1841 | #DIV/0! | #DIV/0! |
| | 0.000559333 | 3545.65 | 1647.7 | -2.15188 | | | | |
| | 0.00124659 | 943.35 | 1913.1 | 2.02799 | 1.87772E-05 | #DIV/0! | 2136.05 | #DIV/0! |
| | | | | | 3.7626E-07 | 2719.5 | 6002.58 | 2.20723 |
| | | | | | 6.4882E-10 | 4384.85 | 17694.9 | 4.03545 |
| | 7.45597E-09 | 1118.2 | 393.925 | -2.83861 | | | | |
| 4.97011 | 1.07468E-10 | 5470.55 | 51753.6 | 9.46039 | 2.02837E-15 | 2250.48 | 57382.2 | 25.4978 |
| 7.10679 | 1.21158E-05 | 1193.4 | 8286.78 | 6.94384 | 2.57557E-07 | #DIV/0! | 9694.4 | #DIV/0! |
| | | | | | 5.70447E-09 | 1548.58 | 523.775 | -2.95657 |
| | | | | | 2.25167E-06 | 2558.5 | 943.775 | -2.71092 |
| | | | | | 9.4089E-08 | 1965.58 | 732.35 | -2.68393 |
| | | | | | 2.49337E-09 | 2590.93 | 1076.65 | -2.40647 |
| | | | | | 0.000280039 | #DIV/0! | 889.367 | #DIV/0! |
| | | | | | 1.61208E-05 | 1016.17 | #DIV/0! | #DIV/0! |
| 2.65515 | 4.39757E-05 | 711.233 | 266.8 | -2.66579 | 8.25558E-10 | 14338.4 | 67547.4 | 4.71096 |
| | 6.2789E-08 | 20220.7 | 79829.7 | 3.94791 | 0.000985395 | 756.5 | 335.125 | -2.25737 |
| | | | | | 4.75751E-05 | 1432.05 | 429.867 | -3.33138 |
| | | | | | 0.000649346 | 1431.05 | 551.825 | -2.5933 |
| | | | | | 0.000139701 | 968.025 | 406.25 | -2.38283 |
| 2.17143 | 3.62898E-09 | 1133.93 | 5014.55 | 4.42226 | 2.97529E-14 | #DIV/0! | 3402.55 | #DIV/0! |
| | 1.72607E-07 | 13885.1 | 28488.1 | 2.0517 | | | | |
| | | | | | 1.48716E-07 | #DIV/0! | 2460.3 | #DIV/0! |
| | | | | | 0.000398273 | #DIV/0! | 2019.13 | #DIV/0! |
| | | | | | 7.54925E-13 | 2582.03 | 10929.1 | 4.23277 |
| | | | | | 0.00152069 | 1437.6 | 416.6 | -3.45079 |
| | | | | | 0.0145973 | 539.675 | 180.3 | -2.99321 |
| | 7.78057E-06 | 4047.73 | 1370.4 | -2.95368 | 2.00667E-07 | 4062.58 | 1202.5 | -3.37844 |
| | | | | | 0.00304764 | 820.8 | 394 | -2.08325 |
| -2.3874 | | | | | 1.30447E-05 | 3401.45 | 1581.2 | -2.15118 |
| -2.216 | 4.19565E-08 | 4672.65 | 1502.18 | -3.11059 | 3.43038E-05 | 2547.7 | 1241.63 | -2.05191 |
| -2.3456 | | | | | | | | |
| | | | | | 1.22063E-08 | 3744.15 | 9618.15 | 2.56885 |
| | | | | | 9.45261E-13 | 2846.1 | 8152.1 | 2.86431 |
| | 3.10766E-05 | 4092.15 | 8370.85 | 2.04559 | 1.31018E-10 | 2459.43 | 8498.1 | 3.45532 |
| | | | | | 0.00273688 | #DIV/0! | 622.267 | #DIV/0! |
| | 8.15239E-06 | 2712.78 | 6101.03 | 2.249 | | | | |
| | 8.77779E-06 | 1244.1 | 2890.08 | 2.32302 | | | | |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| 2.6965 | 4.08272E-08 | 2605.75 | 10238 | 3.929 | 2.63989E-11 | 2101.77 | 8339.03 | 3.96763 |
| 3.1296 | 3.88408E-12 | 4546.6 | 20934.8 | 4.60448 | 2.40832E-15 | 2576.58 | 17436.8 | 6.76742 |
| | | | | | 0.000219958 | #DIV/0! | 1855.1 | #DIV/0! |
| | 4.96974E-06 | 7880.95 | 18504.6 | 2.34802 | 8.56963E-10 | 2964.3 | 10300 | 3.47468 |
| | | | | | 2.25139E-07 | 2963.65 | 5978.35 | 2.01723 |
| | | | | | 5.4664E-10 | 1960.05 | 356.9 | -5.49187 |
| -2.1967 | | | | | 0.00466406 | #DIV/0! | 1264.7 | #DIV/0! |
| | | | | | 0.00267798 | 873.267 | 384.367 | -2.27196 |
| | | | | | 0.000897545 | 478 | 2566.8 | 5.36987 |
| | | | | | 0.0136181 | 889.6 | 386.7 | -2.30049 |
| -2.7998 | 0.000502187 | 3244.28 | 1236.5 | -2.62376 | | | | |
| -2.8121 | | | | | 0.00746492 | 1310.3 | 420.533 | -3.11581 |
| | | | | | 0.0184793 | 1270.85 | 447.767 | -2.8382 |
| | 7.60563E-08 | 30013.4 | 88951.9 | 2.96374 | 1.02396E-06 | 66825.6 | 156568 | 2.34293 |
| | 1.53964E-06 | 22878.7 | 70007.7 | 3.05995 | 1.07716E-05 | 50460.6 | 132191 | 2.61969 |
| | 0.00374749 | 775 | 146.6 | -5.28649 | | | | |
| | | | | | 6.37004E-06 | 2835.23 | 5790.88 | 2.04247 |
| | | | | | 1.48182E-13 | 6154.73 | 14977.4 | 2.43348 |
| | 0.000333292 | 373.5 | 1137.33 | 3.04507 | | | | |
| | | | | | 1.14293E-05 | 2255.97 | 5627.93 | 2.49468 |
| | | | | | 1.24407E-10 | 10046.2 | 29649.9 | 2.95136 |
| | | | | | 1.84269E-10 | 4054.88 | 12268.4 | 3.02558 |
| -2.0301 | | | | | | | | |
| 8.86322 | 6.25815E-17 | 2040.03 | 17836.9 | 8.74346 | 3.3646E-12 | 3671.78 | 15042.8 | 4.09687 |
| -2.1113 | | | | | | | | |
| | 0.000973921 | 1857.4 | 778.433 | -2.38607 | 0.000517945 | 2580.78 | 1213.43 | -2.12685 |
| -2.8746 | 0.00191465 | 655.35 | 285.2 | -2.29786 | 0.00020804 | 793.833 | 388.767 | -2.04193 |
| -2.2123 | 7.98534E-09 | 1584.05 | 312.275 | -5.07261 | 4.44791E-10 | 3476.6 | 617.9 | -5.62648 |
| | | | | | 0.0114333 | 2196.93 | 575.475 | -3.81759 |
| | 5.24607E-11 | 885.875 | 245 | -3.61582 | 1.59295E-07 | 1306.93 | 423.225 | -3.08801 |
| | | | | | 0.00280208 | 1376.45 | 601.675 | -2.2877 |
| | | | | | 0.017212 | 1171.2 | 520.1 | -2.25187 |
| #DIV/0! | | | | | | | | |
| | 0.000159254 | 1333.65 | 659.5 | -2.02221 | | | | |
| | | | | | 6.49513E-06 | 2156.1 | 865.575 | -2.49095 |
| | 0.00121752 | 4211.48 | 1876.4 | -2.24444 | 1.66229E-05 | 1867.15 | 815.533 | -2.28948 |
| | 0.00585323 | 802.567 | 226.4 | -3.54491 | | | | |
| | 0.000204018 | 5069.93 | 11258 | 2.22054 | 0.00112415 | 3518 | 7184.6 | 2.04224 |
| | | | | | 8.72364E-09 | 2389.23 | 5321.5 | 2.22729 |
| | | | | | 6.23388E-09 | 1924.87 | 4484.55 | 2.3298 |
| | 7.31042E-05 | #DIV/0! | 7102.23 | #DIV/0! | 6.10349E-07 | #DIV/0! | 7653.9 | #DIV/0! |
| | | | | | 0.0022469 | 2892.43 | 590.5 | -4.89826 |
| | | | | | 1.84116E-06 | 2030.5 | 586.85 | -3.46 |
| | | | | | 5.84097E-06 | 1539.38 | 576.5 | -2.67021 |
| | 3.43801E-05 | 2776.83 | 1375.98 | -2.01808 | 9.50897E-09 | 6371.73 | 2148.73 | -2.96535 |
| | | | | | 2.02657E-06 | 1326.65 | 549.65 | -2.41363 |
| 4.14203 | 1.4439E-12 | 2131.8 | 16995.5 | 7.97236 | 4.42203E-16 | 1529.4 | 19722.1 | 12.8953 |
| 3.56638 | 3.30414E-13 | 8427 | 65027.3 | 7.71654 | 6.51658E-19 | 5278.85 | 89035 | 16.8664 |
| | 1.23109E-05 | 2148.43 | 930.975 | -2.30772 | 4.98451E-06 | 2228.85 | 976.6 | -2.28225 |
| -2.6414 | 1.59065E-09 | 31091.9 | 7369.83 | -4.2188 | | | | |
| 4.00806 | 1.12412E-12 | 2463.58 | 14134.8 | 5.73753 | 4.01955E-13 | 3566.9 | 12427.9 | 3.48422 |
| 4.67901 | 3.88742E-14 | 2885.43 | 24994.4 | 8.66229 | 1.41672E-11 | 3587.2 | 22081.8 | 6.15571 |
| | 9.5189E-12 | 4061.53 | 10883.8 | 2.67973 | 7.58115E-12 | 2947.53 | 7835.83 | 2.65844 |
| | 3.28999E-08 | 12227.9 | 32877.1 | 2.68869 | 4.591E-12 | 5414.58 | 22751.2 | 4.20183 |
| | | | | | 3.43404E-09 | 4255.48 | 10113.3 | 2.37653 |
| | | | | | 1.45151E-10 | 8954.15 | 25530.5 | 2.85124 |
| | 0.00129083 | 3589.25 | 7213.13 | 2.00965 | | | | |
| 2.36811 | 3.06373E-07 | 10393.1 | 37763.7 | 3.63352 | 4.61556E-12 | 5281.4 | 29675.6 | 5.61889 |
| -3.0245 | | | | | | | | |
| | | | | | 0.0139245 | 1233.57 | 522.133 | -2.36255 |
| | | | | | 2.00982E-05 | 2030.45 | 809.175 | -2.50928 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| -3.2342 | 2.05117E-11 | 3264.28 | 796.775 | -4.09686 | 8.23184E-08 | 3820.7 | 1459.7 | -2.61746 |
| -2.3111 | 9.36238E-06 | 2006.58 | 919.75 | -2.18165 | 2.12464E-06 | 2481.3 | 1029.35 | -2.41055 |
| | 0.00155992 | 724.025 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 5.00882E-07 | 4262.55 | 9954.75 | 2.3354 |
| | | | | | 2.62024E-13 | 2873.75 | 9607.75 | 3.34328 |
| | 4.38519E-08 | 15339.4 | 38955.7 | 2.53959 | 1.81093E-15 | 5539.78 | 29038.5 | 5.24181 |
| | 1.11964E-05 | 3897.25 | 7936.25 | 2.03637 | | | | |
| | 0.0101273 | 638.633 | 216.967 | -2.94346 | | | | |
| | | | | | 1.05263E-14 | 8638.45 | 22851.5 | 2.64532 |
| 3.92926 | 2.50575E-05 | 620 | 2148.73 | 3.46569 | | | | |
| | | | | | 0.000272473 | 1436.37 | 516.8 | -2.77935 |
| 20.318 | 5.62203E-13 | 1740.7 | 48561.5 | 27.8977 | 2.77696E-13 | 11472.8 | 63887.5 | 5.56861 |
| | 5.87541E-05 | 725.2 | 269.6 | -2.68991 | 0.000397585 | 784.3 | 341.85 | -2.29428 |
| -2.2671 | | | | | | | | |
| -2.0233 | | | | | | | | |
| | 3.07608E-05 | 691.775 | 229.6 | -3.01296 | 4.98615E-07 | 1585.18 | 546.467 | -2.90077 |
| -2.872 | 1.58647E-06 | 4721.7 | 1150.53 | -4.10395 | | | | |
| -3.8244 | 7.01714E-05 | 2102.1 | 664.975 | -3.16117 | | | | |
| | 0.000457298 | 2075.05 | 661.05 | -3.13902 | | | | |
| | | | | | 0.000905997 | #DIV/0! | 1322.6 | #DIV/0! |
| | | | | | 2.68127E-07 | 1502.4 | 557.4 | -2.69537 |
| | | | | | 0.000158422 | 4949.38 | 1135.63 | -4.35828 |
| 2.93848 | 0.00024273 | 838.025 | 1944.7 | 2.32058 | | | | |
| 2.7665 | | | | | | | | |
| 5.64535 | 2.31719E-09 | 2200.63 | 50643.3 | 23.0131 | 1.11329E-11 | 5956.4 | 33254.7 | 5.58302 |
| 5.16745 | 8.2132E-11 | 3709.48 | 72215.8 | 19.4679 | 4.86673E-13 | 4184.25 | 55395.5 | 13.2391 |
| | 2.88415E-09 | 2701.65 | 7878.38 | 2.91613 | 2.04813E-07 | 1850.03 | 3829.35 | 2.06988 |
| | 4.76329E-10 | 15747.2 | 78790.4 | 5.00346 | 1.57152E-14 | 7305.8 | 57991.3 | 7.9377 |
| | 3.70949E-10 | 19291.7 | 86949.7 | 4.50711 | 3.52947E-15 | 8320.78 | 66794.4 | 8.02743 |
| -2.6635 | | | | | | | | |
| | | | | | 6.60039E-07 | 2683.2 | #DIV/0! | #DIV/0! |
| | | | | | 0.000524868 | 1363.3 | 545.4 | -2.49963 |
| | | | | | 1.62082E-05 | 5044.2 | 2482.48 | -2.03192 |
| | 3.09503E-07 | #DIV/0! | 1856.43 | #DIV/0! | 9.89255E-06 | #DIV/0! | 4824.68 | #DIV/0! |
| | | | | | 0.00575505 | 1229.95 | 409.6 | -3.00281 |
| | | | | | 0.0095485 | #DIV/0! | 807.525 | #DIV/0! |
| | | | | | 1.46422E-06 | 4264.25 | 9548.48 | 2.23919 |
| | | | | | 0.000161154 | 1068.4 | 2592.97 | 2.42696 |
| | | | | | 1.73258E-08 | 2765.35 | 8301 | 3.00179 |
| | 0.00868129 | #DIV/0! | 817.4 | #DIV/0! | | | | |
| | 2.90875E-07 | 30171 | 69685.4 | 2.30968 | 9.40405E-12 | 18793.1 | 71151 | 3.78603 |
| | 3.41098E-06 | 17307.1 | 47904.2 | 2.76789 | 1.59474E-09 | 8391.75 | 42413.2 | 5.05415 |
| | 0.0037774 | 727.05 | 309.775 | -2.34703 | 5.58817E-06 | 2242.13 | 491.15 | -4.56505 |
| | 9.23479E-06 | 2725.28 | 8648.33 | 3.17338 | 3.99838E-06 | 1815.93 | 5686.35 | 3.13138 |
| | 4.04822E-08 | 21443.5 | 44469.4 | 2.07379 | 2.59623E-14 | 11810.8 | 41344.1 | 3.50054 |
| | 5.93901E-07 | 1977.4 | 5664.7 | 2.86472 | 1.25811E-06 | #DIV/0! | 3915.7 | #DIV/0! |
| | | | | | 5.10975E-13 | 15289.7 | 3622.2 | -4.22111 |
| | | | | | 1.94721E-20 | 6157.43 | 36864.9 | 5.98706 |
| | 8.9472E-07 | 6883.73 | 18341.8 | 2.66452 | 3.29001E-16 | 2705.98 | 27587.5 | 10.195 |
| | 2.79151E-08 | 4452.9 | 11610 | 2.60728 | 1.21703E-06 | 3408.23 | 7512.6 | 2.20426 |
| | 7.02765E-08 | 7340.63 | 18955.9 | 2.58232 | 1.08254E-08 | 4614.38 | 12843.7 | 2.78342 |
| | | | | | 0.00445576 | 983.467 | 437.075 | -2.25011 |
| | | | | | | | | |
| | | | | | 8.34645E-07 | 1976.43 | 4677.98 | 2.36688 |
| | 1.66692E-08 | 10439.9 | 22925.5 | 2.19595 | 1.6612E-09 | 7436.03 | 16067 | 2.16069 |
| | 0.0140839 | 903.075 | 410.375 | -2.20061 | 0.000212456 | 2165.75 | 901.033 | -2.40363 |
| | 0.0010934 | 1099.05 | 354 | -3.10466 | | | | |
| | | | | | 7.95347E-06 | 1694.27 | 527.35 | -3.21279 |
| 2.28743 | 0.00249292 | #DIV/0! | 2174.73 | #DIV/0! | 0.000194675 | #DIV/0! | 2196.18 | #DIV/0! |
| | | | | | 0.000178438 | 2901.43 | 687.85 | -4.21811 |
| | | | | | 0.0124015 | 1601.5 | 425.267 | -3.76587 |
| 2.31768 | 2.0259E-08 | 4918.48 | 14401.8 | 2.9281 | | | | |
| | 0.00199358 | 575.75 | #DIV/0! | #DIV/0! | 0.000199988 | 1462.47 | 296.367 | -4.93465 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 4.83583E-05 | 1562.9 | 460.275 | -3.39558 | 1.18327E-05 | 3831.33 | 1080.1 | -3.54719 |
| | | | | | 8.06011E-06 | 790.95 | 309.2 | -2.55805 |
| -2.6802 | | | | | 2.22337E-06 | 2680.4 | 1019.1 | -2.63016 |
| | | | | | 0.000679418 | 1386.33 | 669.45 | -2.07084 |
| | 1.94921E-05 | 1056.27 | 306.55 | -3.44566 | 7.04726E-08 | 5744.18 | 15215 | 2.64877 |
| | 0.000337752 | 17344.7 | 6144.35 | -2.82286 | | | | |
| | 0.0019478 | 21050.9 | 9425.5 | -2.23339 | | | | |
| | 1.36613E-05 | 939.125 | 442.5 | -2.12232 | 7.6954E-06 | 2027.43 | 624.767 | -3.24509 |
| | 0.00724833 | 884.967 | 389.4 | -2.27264 | 0.00139033 | 1873.15 | 680.3 | -2.75342 |
| | 0.00277014 | 1613.88 | 733.75 | -2.19949 | | | | |
| | 0.00166721 | 732.633 | #DIV/0! | #DIV/0! | | | | |
| | 0.00777832 | 964.175 | 348.55 | -2.76625 | 0.00123642 | 2792.35 | 670.85 | -4.16241 |
| | | | | | 0.0166872 | 760.667 | #DIV/0! | #DIV/0! |
| | 0.000687708 | 954.7 | 404.775 | -2.35859 | | | | |
| 3.85347 | 5.32202E-07 | 820.8 | 4306.88 | 5.24717 | 2.93859E-09 | #DIV/0! | 5056.13 | #DIV/0! |
| | | | | | 0.000368545 | 2127.9 | 888.4 | -2.3952 |
| | 1.69228E-08 | 1352.9 | 516.15 | -2.62114 | | | | |
| -2.5103 | 0.000640476 | 4589.65 | 1955.65 | -2.34687 | 3.99152E-06 | 998.1 | 2338.73 | 2.34318 |
| | | | | | 0.000040953 | 1053.58 | 375.5 | -2.80579 |
| | 3.61914E-05 | 928.75 | 458.975 | -2.02353 | | | | |
| 4.55573 | 0.0096743 | #DIV/0! | 760.75 | #DIV/0! | 3.34284E-15 | 4276.3 | 16921.1 | 3.95695 |
| | 1.48931E-08 | 7471.28 | 15257.7 | 2.04218 | 1.3464E-15 | 4227.28 | 17302.4 | 4.09303 |
| | | | | | 1.81934E-08 | #DIV/0! | 9384.75 | #DIV/0! |
| | 0.0013519 | 898.55 | 374.05 | -2.40222 | | | | |
| | | | | | 0.00023069 | 3009.1 | 599.775 | -5.01705 |
| | | | | | 1.77491E-10 | 46367.8 | 170424 | 3.67548 |
| | 0.000101589 | 1270.53 | 422.133 | -3.00979 | | | | |
| | | | | | 0.00180026 | 995.8 | 402.3 | -2.47527 |
| | | | | | 5.33281E-05 | #DIV/0! | 2411.2 | #DIV/0! |
| | | | | | 0.00669864 | #DIV/0! | 1262.3 | #DIV/0! |
| | 0.00195625 | 527.833 | #DIV/0! | #DIV/0! | | | | |
| | 3.90201E-05 | 2278.15 | 1108.45 | -2.05526 | 0.000140525 | 918.467 | 1837.05 | 2.00013 |
| | | | | | 0.000568138 | 2104.55 | #DIV/0! | #DIV/0! |
| | | | | | 1.49527E-05 | 964.5 | 315.05 | -3.06142 |
| | | | | | 4.09581E-07 | 1168.9 | #DIV/0! | #DIV/0! |
| | 2.59033E-05 | 676.45 | 263.467 | -2.5675 | 6.10533E-06 | 3567.55 | 7274.6 | 2.0391 |
| | | | | | 0.0122454 | #DIV/0! | 1642.45 | #DIV/0! |
| | | | | | 5.02243E-10 | 1994.7 | 5264.78 | 2.63938 |
| | 0.000621855 | 552.25 | 271.133 | -2.03682 | 0.000122925 | 1286.2 | 420.15 | -3.06129 |
| | | | | | 3.61668E-06 | 2400.43 | 1061.63 | -2.26109 |
| | | | | | 3.44705E-08 | 2317.28 | 4733.95 | 2.0429 |
| | | | | | 1.49724E-05 | 5605.9 | 13981.3 | 2.49403 |
| | 3.82097E-05 | 1743.7 | 674.133 | -2.58658 | | | | |
| | 1.02092E-05 | 928 | 297.2 | -3.12248 | 5.71424E-05 | 1139.53 | 377.633 | -3.01754 |
| | | | | | 2.325E-07 | 6078.98 | 12914.8 | 2.1245 |
| | | | | | 0.00159274 | 1298.73 | 414.25 | -3.13512 |
| | | | | | 0.00103825 | #DIV/0! | 2112.65 | #DIV/0! |
| | | | | | 1.92325E-08 | 4371.83 | 1870.45 | -2.33731 |
| | | | | | 4.03133E-05 | #DIV/0! | 1274.18 | #DIV/0! |
| | | | | | 9.84476E-10 | 1889.7 | 3947.88 | 2.08915 |
| | | | | | 8.38843E-05 | 1105.8 | 387.8 | -2.85147 |
| | | | | | 0.00202123 | 1324.28 | 474.7 | -2.78971 |
| | | | | | 3.24595E-07 | 2666.88 | #DIV/0! | #DIV/0! |
| | | | | | 0.00285153 | 1404.85 | 700.875 | -2.00442 |
| | 8.55439E-07 | 1951.35 | 17324.3 | 8.8781 | 1.17042E-10 | 1327.5 | 21354.3 | 16.0861 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| 4.52836 | 7.52026E-07 | 2911.2 | 23050 | 7.91771 | 1.77884E-10 | 2211.2 | 39646.1 | 17.9297 |
| 4.59274 | 0.000384701 | 1767.4 | 12743.9 | 7.21054 | 1.36711E-07 | #DIV/0! | 20330.3 | #DIV/0! |
| | 4.22381E-08 | 805.2 | 2813.55 | 3.49423 | 1.78896E-12 | 1246.3 | 8040.63 | 6.4516 |
| | 1.75883E-07 | 1293.18 | 4787.95 | 3.70248 | 4.28413E-13 | 609.8 | 7386.73 | 12.1134 |
| | | | | | 4.23919E-07 | #DIV/0! | 4750.68 | #DIV/0! |
| | | | | | 0.000111038 | #DIV/0! | 2272.28 | #DIV/0! |
| | 6.16511E-06 | 1258.9 | 579.9 | -2.17089 | 8.21946E-06 | 1579.07 | 738.725 | -2.13756 |
| | | | | | 0.000146811 | 841.633 | 295.2 | -2.85106 |
| | 0.00180521 | 1171.67 | 484.9 | -2.41631 | 2.10756E-05 | 2490.83 | 803.975 | -3.09814 |
| | | | | | 2.33143E-12 | 5373.5 | 18330.4 | 3.41126 |
| 2.16617 | 1.55054E-06 | 2163.88 | 5608.35 | 2.59181 | 3.38865E-09 | 1864.97 | 5776.55 | 3.0974 |
| | 1.0515E-06 | 5301.1 | 15959.6 | 3.01063 | 4.56643E-11 | 2424.75 | 12050.6 | 4.96983 |
| | 1.52617E-05 | 1955.13 | 3995.53 | 2.04362 | | | | |
| 2.47312 | 0.000525969 | 633.075 | 1643.68 | 2.59634 | | | | |
| | | | | | 0.00116648 | 2359.35 | 553.6 | -4.26183 |
| | 0.00147192 | #DIV/0! | 748.675 | #DIV/0! | 0.00500772 | #DIV/0! | 1747.13 | #DIV/0! |
| | 0.000030803 | 961.633 | 378.5 | -2.54064 | | | | |
| | 0.00103989 | 890.6 | 434.733 | -2.04861 | | | | |
| | 0.00837314 | 658.967 | #DIV/0! | #DIV/0! | | | | |
| | 6.04096E-06 | 19381 | 54822.8 | 2.82869 | 7.09539E-10 | 9119.38 | 37371.1 | 4.09799 |
| | 1.54609E-06 | 19665.7 | 62172.4 | 3.16146 | 8.73778E-11 | 9130.3 | 45878.1 | 5.02482 |
| | | | | | 0.000768889 | 2479.9 | 1221.73 | -2.02983 |
| | | | | | 1.44398E-16 | 7016.93 | 26756.7 | 3.81317 |
| | 2.46755E-06 | 1444.83 | 3175.85 | 2.19809 | | | | |
| -2.2315 | 2.09523E-05 | 13062.6 | 5114.43 | -2.55407 | | | | |
| -2.4652 | | | | | | | | |
| #DIV/0! | | | | | | | | |
| | 0.000430403 | 1003.38 | 277.175 | -3.62001 | 0.000865314 | 1595.35 | 461.2 | -3.45913 |
| -2.0534 | | | | | 0.000722191 | 1112.67 | 551.9 | -2.01607 |
| -2.7432 | | | | | | | | |
| | 0.00445237 | #DIV/0! | 2024.13 | #DIV/0! | 5.41817E-06 | #DIV/0! | 1708.28 | #DIV/0! |
| -2.1004 | | | | | | | | |
| | | | | | 1.19402E-09 | 2803.78 | 7078.93 | 2.52478 |
| | | | | | 6.88651E-13 | 7146.7 | 21354.3 | 2.98799 |
| | | | | | 1.60126E-10 | 3877.55 | 13800.5 | 3.55907 |
| | 1.99606E-06 | 17848.5 | 7226 | -2.47004 | | | | |
| | | | | | 0.00186844 | 8431.35 | 19374.6 | 2.29793 |
| | | | | | 4.35826E-11 | 4727.53 | 13639.3 | 2.88507 |
| | 3.8854E-06 | 4499.25 | 10395.8 | 2.31056 | | | | |
| | | | | | 0.000439855 | #DIV/0! | 3243.15 | #DIV/0! |
| 2.30676 | | | | | 1.10597E-09 | #DIV/0! | 3145.8 | #DIV/0! |
| 3.38052 | 1.91035E-11 | 4517.28 | 26233.8 | 5.80744 | 8.20625E-15 | 2895.88 | 26011.1 | 8.98212 |
| 4.10814 | 7.77258E-14 | 1970 | 22764 | 11.5553 | 1.96782E-16 | 1786.3 | 18419.2 | 10.3114 |
| | 1.75127E-12 | 13571.6 | 45966.4 | 3.38696 | 2.53985E-17 | 6115.88 | 33324.6 | 5.44886 |
| | | | | | 1.07402E-05 | 2996.23 | 899.2 | -3.3321 |
| | 1.29837E-10 | 17101.8 | 38690.4 | 2.26236 | 1.09969E-17 | 8020 | 31256.8 | 3.89736 |
| -2.571 | | | | | 0.00196935 | #DIV/0! | 883.725 | #DIV/0! |
| -2.3811 | | | | | | | | |
| 2.61119 | 2.44516E-06 | 3106.25 | 8091.45 | 2.60489 | 1.75867E-13 | 1315.73 | 8694.93 | 6.60847 |
| 2.31484 | 0.000017883 | #DIV/0! | 1603.1 | #DIV/0! | 8.90147E-05 | #DIV/0! | 1239.4 | #DIV/0! |
| | | | | | 3.35285E-07 | #DIV/0! | 3746.28 | #DIV/0! |
| | | | | | 7.87994E-05 | 1967.98 | 556.2 | -3.53825 |
| | 2.92336E-06 | 2162.35 | 889.025 | -2.43227 | | | | |
| | | | | | 0.00375115 | 689.167 | 210.9 | -3.26774 |
| | | | | | 1.87142E-17 | 5599.28 | 18151.2 | 3.24171 |
| | | | | | 2.13932E-13 | 4128.45 | 12671.5 | 3.06931 |
| | | | | | 0.00189164 | 812.525 | 333.1 | -2.43928 |
| | | | | | 2.94081E-14 | #DIV/0! | 2301.05 | #DIV/0! |
| | | | | | 0.00157949 | 1224.13 | 559.65 | -2.18732 |
| | | | | | 4.15046E-08 | 5190.83 | 12905.9 | 2.48629 |
| | | | | | 2.16545E-05 | 6065.75 | 15198.2 | 2.50557 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| 3.45008 | 4.72537E-05 | 890.65 | 2334.68 | 2.62132 | 5.71533E-05 | #DIV/0! | 1609.95 | #DIV/0! |
| | | | | | 6.95424E-07 | 3280.48 | 6981.53 | 2.12821 |
| | | | | | 0.000079991 | #DIV/0! | 3653.68 | #DIV/0! |
| | 1.26322E-05 | 2972.63 | 1216.7 | -2.44319 | | | | |
| | 2.53291E-07 | 17842.7 | 8696.53 | -2.05171 | | | | |
| | 9.99936E-10 | 13275 | 5219.98 | -2.54312 | | | | |
| | 3.14182E-07 | 10735.8 | 4991.4 | -2.15086 | | | | |
| | | | | | 2.5929E-06 | 1258.6 | 363.425 | -3.46316 |
| | | | | | 0.0216309 | 999.35 | 493.175 | -2.02636 |
| | 1.13113E-10 | 3279.98 | 8552.08 | 2.60736 | 2.51095E-17 | 1310.93 | 6853 | 5.22761 |
| | | | | | 6.42467E-10 | 3211.85 | 9287.28 | 2.89157 |
| | | | | | 3.16484E-06 | 2117.55 | 5184.85 | 2.44851 |
| | 2.32209E-10 | 9571.85 | 20404.8 | 2.13175 | 7.32631E-19 | 4265.25 | 18596 | 4.35987 |
| | | | | | 9.85428E-14 | 5463.78 | 11491.5 | 2.10321 |
| -5.5664 | 4.08377E-07 | 25434.6 | 4747.23 | -5.35779 | | | | |
| | | | | | 1.95503E-05 | 1060.6 | 3069.78 | 2.89438 |
| | | | | | 1.04502E-09 | 6725.65 | 22236.5 | 3.30622 |
| | | | | | 2.95889E-10 | 8807.25 | 29692.6 | 3.37138 |
| | | | | | 3.94068E-09 | 1804.83 | 4151.15 | 2.30003 |
| | | | | | 9.17879E-05 | #DIV/0! | 1787.85 | #DIV/0! |
| -3.9051 | 2.39208E-07 | 2377.78 | 459.825 | -5.17104 | 0.0054278 | 2001.75 | 913.85 | -2.19046 |
| | | | | | 9.04743E-12 | #DIV/0! | 2351.78 | #DIV/0! |
| | 0.010597 | 920.633 | 376.95 | -2.44232 | | | | |
| | 1.81718E-05 | 1325.4 | 623.025 | -2.12736 | 1.72784E-07 | 1577.63 | 675 | -2.33722 |
| -2.5606 | 9.18951E-11 | 5250.93 | 1582.5 | -3.31812 | | | | |
| 4.66782 | 0.000227128 | 534.4 | 1170.18 | 2.1897 | | | | |
| | | | | | 7.16554E-10 | 4698.83 | 10703.6 | 2.27793 |
| | | | | | 5.0176E-08 | #DIV/0! | 4581.53 | #DIV/0! |
| | 0.000417041 | 1482.9 | 698 | -2.1245 | | | | |
| | | | | | 2.35758E-05 | 1980.75 | 650.35 | -3.04567 |
| | | | | | 0.00119074 | 1694.28 | 727.65 | -2.32842 |
| | | | | | 4.91834E-08 | 8837.18 | 22592.6 | 2.55654 |
| | | | | | 2.97391E-10 | 5516.48 | 15928.6 | 2.88746 |
| | | | | | 5.92798E-07 | 9337.58 | 1260.83 | -7.40592 |
| | | | | | 2.05454E-07 | 4361.25 | 1609.6 | -2.70952 |
| #DIV/0! | 0.00210051 | #DIV/0! | 1311.93 | #DIV/0! | | | | |
| | 8.0257E-07 | 2366.38 | 506.95 | -4.66787 | | | | |
| | 4.44575E-06 | 2080.68 | 707.85 | -2.93943 | | | | |
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| | | | | | 1.79863E-05 | 1819.13 | 648.8 | -2.80383 |
| | | | | | 6.08954E-07 | 939.133 | 356.7 | -2.63284 |
| | 2.64104E-08 | 1460.65 | 518.8 | -2.81544 | 5.83013E-08 | 1481.1 | 673.8 | -2.19813 |
| | | | | | 0.00136028 | 1817.53 | 481.633 | -3.77367 |
| -2.6416 | 1.9336E-06 | 1776.95 | 488.475 | -3.63775 | 4.87052E-06 | 1846.78 | 564.35 | -3.27239 |
| -2.7443 | 9.37167E-06 | 1233.45 | 325.367 | -3.79095 | 2.21646E-06 | 1788.93 | 589.1 | -3.03671 |
| | | | | | 2.15587E-05 | 1638.15 | 602.8 | -2.71757 |
| | 3.48274E-05 | 1923.23 | 712.925 | -2.69765 | 5.90509E-09 | 4066.75 | 848.233 | -4.79438 |
| | 0.000634453 | 1056.93 | 388.45 | -2.72088 | 8.96058E-06 | 2090.7 | 508.525 | -4.1113 |
| | | | | | 1.17922E-06 | #DIV/0! | 2954.08 | #DIV/0! |
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| | | | | | 1.26111E-05 | 2989.8 | 8106.95 | 2.71154 |
| | | | | | 8.53527E-06 | 11367.7 | 4788.75 | -2.37382 |
| | 0.00022349 | 659.85 | 286.033 | -2.3069 | 0.00101862 | 999.675 | 313.55 | -3.18825 |
| | 0.000174256 | 1184.63 | 577.3 | -2.05202 | | | | |
| -2.8747 | | | | | | | | |
| -2.7828 | | | | | | | | |
| -2.2885 | | | | | | | | |
| | 3.48119E-09 | 7501.45 | 19773.8 | 2.636 | 2.30185E-13 | 4227.4 | 18164.6 | 4.29687 |
| | | | | | 6.01821E-05 | #DIV/0! | 1982.3 | #DIV/0! |
| | | | | | 5.50146E-07 | 6581.05 | 13324.6 | 2.02469 |
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| | | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|--|
| 2.55211 | | | | | | | | | |
| -3.823 | 0.000333711 | 1627.45 | 505.375 | -3.22028 | | | | | |
| | | | | | 0.000867199 | 983.3 | 1981.7 | 2.01536 | |
| | | | | | 3.68404E-09 | #DIV/0! | 2190.5 | #DIV/0! | |
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| -2.6315 | 2.43595E-05 | 561.35 | #DIV/0! | #DIV/0! | | | | | |
| #DIV/0! | | | | | | | | | |
| | 0.00571957 | 866.875 | 383.167 | -2.2624 | | | | | |
| | | | | | 0.00781574 | 956.2 | 294.5 | -3.24686 | |
| | | | | | 0.00912678 | 1287.45 | 497.65 | -2.58706 | |
| | | | | | 6.1782E-07 | 3476.28 | 1647.35 | -2.11022 | |
| | 0.000906787 | 1231.75 | 603.575 | -2.04076 | | | | | |
| | | | | | | | | | |
| | 0.00728702 | 1807.6 | 6578.93 | 3.63959 | 0.0161162 | 2944.8 | 8510.33 | 2.88995 | |
| | | | | | 0.00262884 | 4649.4 | 9533.58 | 2.0505 | |
| | 0.0131512 | 12277.1 | 3608.05 | -3.4027 | | | | | |
| | 0.0113153 | 1273.83 | #DIV/0! | #DIV/0! | 0.00258735 | 2447.68 | 942.6 | -2.59673 | |
| | | | | | 0.00154037 | 877.75 | 401.7 | -2.18509 | |
| | | | | | 0.00035017 | 1154.73 | 171.3 | -6.74095 | |
| | | | | | 0.000889634 | 1074.57 | 309.6 | -3.47082 | |
| | 0.000122795 | 1166.5 | #DIV/0! | #DIV/0! | | | | | |
| | 0.00747248 | 868.175 | 273.625 | -3.17286 | 0.00228338 | 2150.65 | 660.033 | -3.2584 | |
| | | | | | 0.00201837 | 1087.33 | 413.533 | -2.62935 | |
| | | | | | 0.00117205 | 1398.4 | 614.1 | -2.27715 | |
| | | | | | 4.38036E-06 | 1352.7 | 2892.85 | 2.13857 | |
| | | | | | 0.000240431 | 1802.55 | 704.4 | -2.55899 | |
| -2.7457 | | | | | 0.000958441 | 891.55 | 424.45 | -2.10048 | |
| | | | | | 1.77412E-08 | 2359.53 | 1048.45 | -2.25049 | |
| -2.0189 | | | | | | | | | |
| | | | | | 5.18057E-07 | #DIV/0! | 3436.18 | #DIV/0! | |
| | 3.92631E-08 | 1757.35 | 826.4 | -2.12651 | 7.75726E-12 | 3009.43 | 1022.53 | -2.94313 | |
| -2.3706 | 2.86864E-08 | 967.15 | 299.475 | -3.22948 | 2.55782E-08 | 1308.55 | 382.233 | -3.42343 | |
| | | | | | 0.000074167 | 1932.88 | 4285.93 | 2.21738 | |
| | 0.000772292 | 17213.2 | 6799.7 | -2.53146 | 0.00234316 | 30275.2 | 14515.8 | -2.08567 | |
| | 5.20467E-07 | 36143.2 | 17379.5 | -2.07965 | | | | | |
| | | | | | 9.87416E-17 | 9810.85 | 27368.5 | 2.78962 | |
| | | | | | 2.04708E-05 | 4777.03 | 9968.68 | 2.0868 | |
| | | | | | 4.59728E-07 | 2463.65 | 7658.73 | 3.10869 | |
| | | | | | 5.34516E-08 | #DIV/0! | 3543.7 | #DIV/0! | |
| | 0.000174632 | 898.733 | 232.1 | -3.87218 | 4.2467E-11 | 2099.93 | #DIV/0! | #DIV/0! | |
| 4.57523 | 1.01913E-05 | #DIV/0! | 940.8 | #DIV/0! | | | | | |
| | | | | | 8.64057E-05 | 2265.45 | 524.6 | -4.31843 | |
| | | | | | 5.38609E-05 | 1229 | 403.45 | -3.04623 | |
| | | | | | 1.48162E-06 | 2204.23 | 659.25 | -3.34353 | |
| -3.8998 | | | | | | | | | |
| | | | | | 0.0193949 | 1219.25 | 322 | -3.78649 | |
| | 6.27238E-05 | 1166.75 | 569.375 | -2.04918 | 1.31925E-05 | 2107.48 | 848.55 | -2.48362 | |
| | | | | | 0.00209042 | 748.325 | 328.2 | -2.28009 | |
| | | | | | 7.66613E-09 | 2131 | 4940.4 | 2.31835 | |
| | | | | | 0.00002197 | #DIV/0! | 2471.03 | #DIV/0! | |
| -2.3387 | | | | | | | | | |
| | 7.86503E-08 | 16899.2 | 43028.2 | 2.54617 | 8.4963E-12 | 11764.5 | 46120.4 | 3.92031 | |
| | | | | | 1.75637E-14 | 19772.5 | 88704.7 | 4.48628 | |
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| | | | | | 0.00364188 | 839.9 | #DIV/0! | #DIV/0! | |
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| | | | | | 3.84562E-10 | 3812.18 | 9024.6 | 2.36731 | |
| | | | | | 0.00035562 | 1671.03 | 458.325 | -3.64596 | |
| | 0.00116625 | 565.95 | 272.4 | -2.07764 | | | | | |
| | | | | | 5.54052E-05 | 1038.73 | 295.6 | -3.51395 | |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00224802 | 1355.5 | 313.167 | -4.32837 |
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| | | | | | 0.00189228 | 1089.63 | 387.45 | -2.8123 |
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| | 0.000512943 | 608.7 | #DIV/0! | #DIV/0! | | | | |
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| | | | | | 0.0073007 | 1502.53 | 490.4 | -3.06389 |
| | | | | | 6.90448E-10 | 5779.78 | 20443.4 | 3.53706 |
| 2.12858 | 3.13424E-06 | #DIV/0! | 737.65 | #DIV/0! | | | | |
| | 0.00242227 | 1799.23 | 497.35 | -3.61764 | 0.00197309 | 5291.15 | 961.6 | -5.50244 |
| | | | | | 0.00192992 | 3345.4 | 818 | -4.08973 |
| | 0.0108707 | 2907.37 | 883.967 | -3.289 | | | | |
| | | | | | 0.00180227 | 549.675 | 234.5 | -2.34403 |
| #DIV/0! | 2.36491E-05 | 944.5 | #DIV/0! | #DIV/0! | | | | |
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| | | | | | 1.76865E-09 | 7687.88 | 20342.7 | 2.64607 |
| | | | | | 1.37124E-05 | 5106.43 | 2020.75 | -2.52699 |
| | 9.99343E-05 | 3544.5 | 1551.05 | -2.28523 | 4.87798E-05 | 3868.4 | 1038.93 | -3.72343 |
| | | | | | | | | |
| | 0.000153798 | 974.8 | 325.1 | -2.99846 | | | | |
| -2.6104 | | | | | | | | |
| | | | | | 9.85518E-06 | 1998.1 | 450.3 | -4.43726 |
| | | | | | 1.37823E-05 | 2708.23 | 1028.07 | -2.63429 |
| | | | | | 0.000433644 | 1543.77 | #DIV/0! | #DIV/0! |
| | | | | | 8.25231E-05 | 3160.55 | 786.5 | -4.0185 |
| -2.1331 | 0.0010467 | 2491.15 | 1118.45 | -2.22732 | | | | |
| | 0.00185768 | 1115 | 555.233 | -2.00816 | | | | |
| 2.01502 | | | | | | | | |
| | 2.29818E-09 | 1454.55 | 631.225 | -2.30433 | 4.43824E-07 | 1964 | 965.225 | -2.03476 |
| -2.1867 | 2.92776E-06 | 9357.53 | 3115.08 | -3.00395 | 3.92358E-05 | 4479.2 | 1943.05 | -2.30524 |
| | 7.02005E-07 | 1444.03 | 615.667 | -2.34547 | 1.42366E-08 | 2767.85 | 917.1 | -3.01805 |
| -2.0136 | 6.15398E-09 | 4670.2 | 2203.73 | -2.11923 | 1.12757E-10 | 5131.85 | 2177.05 | -2.35725 |
| | 4.95403E-10 | 9138.83 | 19811.8 | 2.16787 | 9.33996E-14 | 4958.08 | 13819.1 | 2.78718 |
| | | | | | 3.0866E-06 | 820.425 | 2557.65 | 3.11747 |
| | 1.8633E-08 | 2594.48 | 10740.6 | 4.13979 | 1.02289E-09 | 1829.95 | 5968.4 | 3.26151 |
| | 2.28703E-06 | 12111.9 | 25287 | 2.08778 | 7.76402E-11 | 4239.73 | 14541.9 | 3.42992 |
| | | | | | 3.15886E-15 | 8248.48 | 29607 | 3.58939 |
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| 2.10255 | 1.09774E-07 | 1691.5 | 5789.93 | 3.42295 | 1.99308E-11 | #DIV/0! | 3852.43 | #DIV/0! |
| | | | | | 8.07038E-08 | #DIV/0! | 1724.78 | #DIV/0! |
| | 3.37284E-09 | 11914.6 | 40609.8 | 3.40842 | 1.09297E-13 | 6433.35 | 37919.2 | 5.89415 |
| | | | | | 0.00190848 | 1457.33 | 434.5 | -3.35403 |
| | 0.000137428 | 671.25 | 205.2 | -3.2712 | 8.94173E-11 | 1194.6 | #DIV/0! | #DIV/0! |
| | 0.0109535 | 618.467 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 4.11748E-11 | 1684.05 | 484.85 | -3.47334 |
| | 4.72431E-07 | 10185.8 | 21180.3 | 2.07939 | 9.71931E-11 | 4967.4 | 14729.7 | 2.96527 |
| | | | | | 2.73224E-13 | 9080.85 | 23755.4 | 2.61599 |
| | | | | | 1.72479E-08 | 7631.78 | 21221.4 | 2.78066 |
| | | | | | 9.38034E-07 | 1543.33 | 542.15 | -2.84669 |
| -2.093 | 0.00012034 | 3555.1 | 1774.73 | -2.00317 | | | | |
| -2.0325 | | | | | | | | |
| | | | | | 0.000756356 | 2502 | 1243.23 | -2.01249 |
| | | | | | 1.19639E-05 | 896.425 | 381.35 | -2.35066 |
| | 3.64013E-08 | 38673.9 | 80924.7 | 2.09249 | 2.55311E-19 | 16315.7 | 95695.1 | 5.86522 |
| | 1.01006E-10 | 10021.6 | 26443.3 | 2.63863 | 1.22011E-18 | 4351.03 | 26837.7 | 6.16813 |
| 3.16036 | 2.13093E-09 | 5385.83 | 25405.2 | 4.71704 | 1.65993E-13 | #DIV/0! | 27379.8 | #DIV/0! |
| 2.73637 | 2.03133E-14 | 7195.85 | 26742.1 | 3.71632 | 3.72905E-12 | 6332 | 17839.9 | 2.81742 |
| | 7.06176E-11 | 1897.68 | 7182.43 | 3.78486 | | | | |
| | | | | | 3.58729E-11 | 1920.28 | 5747.13 | 2.99287 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.0124922 | 729.425 | 301.2 | -2.42173 |
| | | | | | 0.0100225 | 1054.4 | 399.95 | -2.63633 |
| | | | | | 2.12071E-13 | 4273.13 | 12910 | 3.02121 |
| -2.396 | 0.000109461 | 708.167 | 324.667 | -2.18121 | | | | |
| | | | | | 0.000129339 | 2870.75 | 837.067 | -3.42954 |
| | | | | | 1.40275E-05 | 1581.73 | 585.6 | -2.70105 |
| | | | | | 0.000485463 | 1631.53 | 653.8 | -2.49546 |
| 3.93109 | 2.34455E-09 | 4700.53 | 12900.9 | 2.74456 | 3.80586E-09 | #DIV/0! | 9214.28 | #DIV/0! |
| | 1.33185E-12 | 982.433 | 5365.83 | 5.46177 | 2.32559E-10 | #DIV/0! | 3939.48 | #DIV/0! |
| | | | | | 0.000152425 | #DIV/0! | 2409.23 | #DIV/0! |
| | | | | | 0.00525381 | #DIV/0! | 1288.03 | #DIV/0! |
| -3.9246 | 2.5083E-06 | 11855.6 | 2989.55 | -3.96568 | 7.51003E-05 | 7521.35 | 2935.13 | -2.56253 |
| | | | | | 0.000131507 | 2394.95 | 647.975 | -3.69605 |
| | | | | | 0.001711102 | #DIV/0! | 672.133 | #DIV/0! |
| -2.433 | 2.73872E-06 | 10955.3 | 4097.85 | -2.67342 | | | | |
| | | | | | 0.0121686 | 731.567 | 311.7 | -2.34702 |
| | | | | | 1.04944E-05 | 806.567 | 344.875 | -2.33872 |
| | | | | | 0.000502904 | 1430.67 | #DIV/0! | #DIV/0! |
| | | | | | 0.00303581 | #DIV/0! | 2741.37 | #DIV/0! |
| | | | | | 3.61333E-14 | 14034.1 | 37587.6 | 2.6783 |
| | | | | | 3.85702E-09 | 4075.8 | 11634.3 | 2.85448 |
| | 5.17071E-05 | 8249.4 | 17218.2 | 2.08721 | 3.27197E-06 | 5123.9 | 12856.3 | 2.50908 |
| | | | | | 1.17497E-08 | 4063.93 | 12311.4 | 3.02942 |
| | | | | | 3.95948E-06 | 714.8 | 1543.6 | 2.15949 |
| | | | | | 1.2435E-13 | 12545.1 | 52739.8 | 4.20403 |
| | 1.13721E-13 | 15424.6 | 35628.9 | 2.30988 | 1.41547E-23 | 6638.68 | 34903.2 | 5.25756 |
| | 5.38254E-10 | 9222.55 | 26678.8 | 2.89278 | 3.83936E-19 | 3209.9 | 22391.1 | 6.97562 |
| | | | | | 2.89623E-06 | 3796.83 | 1244.18 | -3.05168 |
| 2.52824 | 0.000926791 | 1457.28 | 627.875 | -2.32096 | 0.000256108 | 1700.75 | 634.95 | -2.67856 |
| | 7.53623E-13 | 4053.55 | 18169.5 | 4.48236 | 1.68213E-13 | 2934.55 | 12807.6 | 4.36442 |
| | 4.10169E-10 | 8050.58 | 34840.5 | 4.3277 | 2.40292E-12 | 4118.33 | 21436.8 | 5.20522 |
| | 3.72351E-12 | 21867.3 | 60382.7 | 2.76133 | 1.08431E-19 | 8936.25 | 51515.3 | 5.76475 |
| | 1.29765E-07 | 4289.45 | 11878.3 | 2.76918 | 1.59119E-10 | 2581.15 | 9730.4 | 3.76979 |
| | | | | | 6.40252E-07 | 2058.08 | 4681.43 | 2.27466 |
| | | | | | 4.76969E-06 | 2153.75 | 5062.28 | 2.35045 |
| -2.2934 | 7.01824E-08 | 1488.55 | 491 | -3.03167 | 4.31495E-08 | 2070.03 | 457.925 | -4.52045 |
| | | | | | 1.70875E-07 | 2407.05 | 832.125 | -2.89265 |
| -2.1636 | | | | | | | | |
| 2.19747 | 3.07306E-08 | 2897.35 | 7591.65 | 2.6202 | 3.24487E-11 | 2235.5 | 8081.05 | 3.61487 |
| | 0.000355597 | 595.433 | 243.6 | -2.44431 | | | | |
| | | | | | 9.84246E-11 | 4762.15 | 13682.4 | 2.87316 |
| | | | | | 2.5168E-12 | 15750.7 | 50442.4 | 3.20255 |
| | 9.70687E-08 | 12143.1 | 24455.2 | 2.01392 | | | | |
| | | | | | 9.31717E-08 | 1960.05 | 557.825 | -3.51374 |
| -2.1246 | 4.75145E-09 | 1417.95 | 427.6 | -3.31607 | 7.05146E-09 | 1965 | 579.225 | -3.39246 |
| | 0.000846486 | 1327.3 | 480.8 | -2.76061 | | | | |
| | 9.02363E-05 | 511.833 | #DIV/0! | #DIV/0! | | | | |
| | | | | | | | | |
| | 0.00744016 | 1508.78 | 654.933 | -2.30371 | | | | |
| -3.8821 | 0.00231938 | 1633.73 | 749.575 | -2.17954 | | | | |
| | | | | | 2.79806E-06 | 15049.8 | 32113.8 | 2.13384 |
| | | | | | 4.65659E-06 | 2277.85 | 5006.05 | 2.19771 |
| | | | | | 1.38513E-06 | 2761.18 | 7131.63 | 2.58282 |
| | | | | | 1.90695E-05 | 953.1 | #DIV/0! | #DIV/0! |
| | 2.42606E-05 | 631.667 | #DIV/0! | #DIV/0! | 0.000393704 | 995 | 355.833 | -2.79625 |
| | | | | | 0.0153831 | 1398.08 | 572.7 | -2.4412 |
| | | | | | 7.73241E-07 | 1755.18 | 3591.68 | 2.04633 |
| | | | | | 5.9927E-13 | 2722.33 | 12792.8 | 4.69921 |
| | 1.99477E-06 | 24893.6 | 53794 | 2.16096 | 1.44435E-14 | 10117.4 | 52917.2 | 5.2303 |
| | | | | | 5.14837E-07 | 1750.53 | 4246.43 | 2.4258 |
| | | | | | 0.000544131 | 8541.65 | 17178.6 | 2.01116 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.000559801 | 5220.5 | 10453.4 | 2.00238 |
| | | | | | 2.90348E-05 | 3860.05 | 10642.8 | 2.75715 |
| | | | | | 3.55175E-06 | #DIV/0! | 2222.25 | #DIV/0! |
| 7.55848 | 2.91937E-06 | 2218.83 | 35265 | 15.8935 | 4.54348E-09 | 5357.7 | 30894.9 | 5.76645 |
| 6.61735 | 5.16072E-09 | 5667.55 | 69028.9 | 12.1797 | 7.7629E-11 | 7153.7 | 78159.4 | 10.9257 |
| | | | | | 1.18073E-06 | 3095.05 | 919.175 | -3.3672 |
| | | | | | 4.27259E-07 | 2439.73 | 732 | -3.33296 |
| | 0.00107333 | 15130.6 | 43358.6 | 2.86562 | 0.000111532 | 9402.98 | 35354.9 | 3.75997 |
| 2.64209 | 3.34057E-12 | 8401.7 | 50544.4 | 6.01598 | 1.23764E-13 | 5736.68 | 33764 | 5.88564 |
| 4.49623 | 1.67369E-09 | 847.6 | 3813.95 | 4.49971 | 0.00171004 | #DIV/0! | 1656.3 | #DIV/0! |
| 3.79297 | 2.37405E-11 | 1794.78 | 6233.85 | 3.47333 | | | | |
| 2.66188 | | | | | | | | |
| | | | | | 0.0033668 | #DIV/0! | 1231.77 | #DIV/0! |
| | | | | | 0.000176246 | 905.75 | 202.6 | -4.47063 |
| | | | | | 0.00383841 | 1448.03 | 484.3 | -2.98993 |
| | | | | | 6.02114E-06 | 1147.7 | #DIV/0! | #DIV/0! |
| | 1.89317E-07 | 1517.1 | 606.1 | -2.50305 | 8.2648E-08 | 1762.95 | 661.9 | -2.66347 |
| | 8.08857E-11 | 3423.03 | 8186.63 | 2.39163 | 2.49308E-11 | 2447.85 | 5812.2 | 2.37441 |
| | | | | | 2.36197E-10 | 6056.38 | 14631 | 2.41579 |
| | | | | | 3.18343E-06 | #DIV/0! | 2766.9 | #DIV/0! |
| | | | | | 1.44213E-07 | 1449.5 | 566.725 | -2.55768 |
| | | | | | 0.000210597 | 1533.33 | 405.4 | -3.78227 |
| | 8.62662E-06 | 821.425 | 274.333 | -2.99426 | 4.53476E-05 | 1739.7 | 569.575 | -3.05438 |
| | 0.000897424 | 1228.13 | 581.25 | -2.1129 | 0.000818969 | 2136.8 | 950.3 | -2.24855 |
| | | | | | 0.00012374 | 4934.63 | 13164.2 | 2.66772 |
| | | | | | 2.37801E-08 | 6191.9 | 12989.1 | 2.09776 |
| | | | | | 8.09309E-14 | 4331.8 | 10011.8 | 2.31123 |
| | | | | | 9.58182E-06 | 3291.5 | 7639.85 | 2.32108 |
| | | | | | 9.27441E-07 | 3375.25 | 13187.5 | 3.9071 |
| | | | | | 5.11516E-07 | #DIV/0! | 2441.05 | #DIV/0! |
| | | | | | 1.45971E-06 | 2534.43 | 6089.03 | 2.40253 |
| | | | | | 3.05273E-12 | 6228.7 | 19967 | 3.20565 |
| | 0.000136561 | 714.3 | 275.35 | -2.59415 | | | | |
| | 2.81858E-08 | 3821.88 | 9508.1 | 2.48781 | 8.50753E-07 | 3807.33 | 7919.75 | 2.08014 |
| 2.10958 | 4.38733E-08 | 3051.48 | 7703.5 | 2.52452 | 3.15019E-07 | 3019.73 | 6634.38 | 2.19701 |
| | 2.8326E-10 | 7063.5 | 24222.3 | 3.42922 | 2.20338E-11 | 4875.53 | 17372.1 | 3.56313 |
| | 0.0094099 | 946.85 | 299.833 | -3.15792 | 0.000843873 | 1811.48 | 500.667 | -3.61813 |
| | | | | | 2.60855E-08 | 3744.68 | 1241.1 | -3.01722 |
| | | | | | 6.47118E-08 | 859.65 | 2230.48 | 2.59463 |
| | | | | | 6.17633E-07 | #DIV/0! | 1974.73 | #DIV/0! |
| | | | | | 0.00012907 | 1452.93 | 721.975 | -2.01243 |
| | 0.000860853 | 789.85 | 200.733 | -3.93482 | 0.0012162 | 1815.33 | 535.967 | -3.38701 |
| | 0.00404748 | 585.1 | #DIV/0! | #DIV/0! | 0.0101962 | 1419.2 | 503.65 | -2.81783 |
| | 0.000209309 | 43578.3 | 16637.6 | -2.61927 | 0.000556791 | 82069.4 | 34901.3 | -2.35147 |
| | | | | | 0.00455888 | 119465 | 51691.9 | -2.3111 |
| -4.0163 | 4.98452E-07 | 2100.45 | 578.375 | -3.63164 | | | | |
| | 1.17315E-05 | 3010.28 | 1329.63 | -2.264 | 1.03886E-11 | 3351.63 | 764.55 | -4.38379 |
| | | | | | 3.54018E-15 | 2513.25 | 757.5 | -3.31782 |
| | 0.00843534 | 1141.73 | #DIV/0! | #DIV/0! | | | | |
| -2.1825 | 2.95677E-05 | 3836.15 | 1885.18 | -2.0349 | | | | |
| #DIV/0! | | | | | 0.000330241 | #DIV/0! | 4866.78 | #DIV/0! |
| | | | | | 0.0103918 | #DIV/0! | 1599.85 | #DIV/0! |
| | | | | | 3.17783E-07 | 6518.35 | 13467.9 | 2.06614 |
| | 0.0030509 | 979.225 | 487.8 | -2.00743 | 0.00442053 | 2715.95 | 752.75 | -3.60804 |
| 2.62932 | 9.88844E-07 | 2359.05 | 4934.18 | 2.09159 | 1.83068E-05 | #DIV/0! | 5042.58 | #DIV/0! |
| | 0.00471464 | #DIV/0! | 2359.15 | #DIV/0! | | | | |
| | 1.25845E-05 | #DIV/0! | 1105.58 | #DIV/0! | | | | |
| | | | | | 2.48692E-12 | 7196.83 | 18276 | 2.53945 |
| | | | | | 4.68521E-11 | 4339.58 | 1813.8 | -2.39253 |
| | | | | | 0.00155673 | #DIV/0! | 3441.07 | #DIV/0! |
| -2.0102 | 1.17103E-11 | 3792.43 | 1274.78 | -2.97498 | 8.87669E-10 | 3537.15 | 1501.3 | -2.35606 |
| 2.02257 | 5.55267E-08 | 2448.3 | 6421.68 | 2.62291 | | | | |
| | | | | | 0.000846201 | #DIV/0! | 675.733 | #DIV/0! |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| -4.4738 | 9.71502E-10 | 1083.65 | 312.85 | -3.4638 | 1.55404E-07 | 1433.35 | 449.8 | -3.18664 |
| -3.6798 | 1.45736E-11 | 3293.1 | 614.275 | -5.36095 | 2.38561E-08 | 2424.18 | 806.3 | -3.00654 |
| -2.6257 | 0.000445276 | 4780.55 | 2260.35 | -2.11496 | | | | |
| 2.46734 | 1.60411E-10 | 5800.68 | 21525.7 | 3.7109 | 4.44051E-12 | 3076.18 | 12391.4 | 4.02819 |
| 2.25022 | | | | | | | | |
| 2.13567 | 4.48832E-07 | 2793.58 | 5719.85 | 2.0475 | 2.08251E-11 | 1839.57 | 5043.25 | 2.74154 |
| | 2.00724E-09 | 7278.88 | 20071.2 | 2.75746 | 2.47993E-12 | 4452.2 | 16389.3 | 3.68116 |
| | | | | | 0.0171961 | 2116.2 | 578.1 | -3.66061 |
| | 6.84336E-09 | 3102.78 | 7984.85 | 2.57345 | 9.65534E-05 | #DIV/0! | 3155.93 | #DIV/0! |
| | 0.000232363 | 874.8 | 2781.05 | 3.17907 | 2.95724E-07 | #DIV/0! | 1838.23 | #DIV/0! |
| | | | | | 0.0100233 | 3544.63 | 8472.38 | 2.3902 |
| -2.225 | 5.70411E-05 | 1358.43 | 587.767 | -2.31116 | 7.91106E-08 | 1727.83 | 588.233 | -2.93731 |
| | | | | | 9.91749E-07 | 3064.43 | 6671.08 | 2.17694 |
| | | | | | 2.00722E-08 | 3974.2 | 8756.18 | 2.20325 |
| | | | | | 2.68489E-10 | 2086.6 | 5214.53 | 2.49905 |
| -3.2736 | 1.07339E-06 | 1623.73 | 499.667 | -3.24962 | | | | |
| -3.1027 | 4.37882E-06 | 8825.38 | 2755 | -3.2034 | | | | |
| -2.9945 | | | | | | | | |
| | 1.46146E-06 | 1921.23 | 680.8 | -2.82201 | 1.11372E-08 | 4634.28 | 1177.48 | -3.93577 |
| | | | | | 0.000113814 | 1588.93 | 750.7 | -2.1166 |
| -3.138 | 1.23354E-09 | 1386.1 | 332.475 | -4.16904 | 1.51801E-10 | 2324.58 | 634.067 | -3.66614 |
| -3.7651 | | | | | | | | |
| | 0.000458964 | 772.425 | 269.3 | -2.86827 | 0.00291971 | 1475.93 | 539.7 | -2.73471 |
| | | | | | 3.64046E-08 | 10696.7 | 27158.2 | 2.53894 |
| | | | | | 5.54748E-05 | 2326.03 | 802.975 | -2.89676 |
| | 6.20237E-05 | 9911.73 | 4936.05 | -2.00803 | | | | |
| | 0.00377429 | #DIV/0! | 1094.18 | #DIV/0! | | | | |
| | 0.00247601 | 702.7 | 293.067 | -2.39775 | 0.000770491 | 1073.17 | 466.367 | -2.30112 |
| | 1.41063E-07 | 617.625 | 66.4 | -9.30158 | 0.000405496 | 981.525 | 274.367 | -3.57742 |
| | 9.6302E-06 | 1459.78 | 472.275 | -3.09094 | 2.96919E-07 | 2037.9 | 476.075 | -4.28063 |
| | 6.75076E-07 | 604.375 | 177.25 | -3.40973 | 0.000678486 | 1067.1 | 423.7 | -2.51853 |
| -2.0915 | | | | | | | | |
| | | | | | 0.00476719 | 981.433 | 321.15 | -3.056 |
| | | | | | 0.000338444 | 1785.8 | 868.9 | -2.05524 |
| | | | | | 7.40785E-06 | 3557.1 | 955.05 | -3.72452 |
| | | | | | 0.00107903 | 2631.1 | 6879.43 | 2.61466 |
| | | | | | 0.000153664 | 1740.5 | 524.067 | -3.32114 |
| | 0.0155409 | 596.5 | 233.467 | -2.55497 | | | | |
| | | | | | 0.00140093 | 710.6 | #DIV/0! | #DIV/0! |
| | | | | | 0.0136758 | 2237.28 | 611.067 | -3.66126 |
| | | | | | 0.00379489 | 1602.8 | 275.5 | -5.81779 |
| | | | | | 0.00471424 | 1837.57 | #DIV/0! | #DIV/0! |
| | | | | | 1.11982E-05 | 1442.93 | 352.6 | -4.09224 |
| | 0.000708835 | 1945.33 | 839.6 | -2.31697 | 0.000368442 | 3199.23 | 1260.53 | -2.53801 |
| | | | | | 0.00703258 | 2440.13 | 947.1 | -2.57643 |
| 3.30385 | | | | | | | | |
| | | | | | 2.28123E-13 | 10287.2 | 31407.8 | 3.05309 |
| | | | | | 6.35546E-13 | 3615.3 | 13605.1 | 3.76319 |
| | | | | | 2.0634E-14 | 2768.08 | 11308.4 | 4.08529 |
| | 0.000230094 | 588.05 | 288.967 | -2.03501 | | | | |
| | | | | | 7.9179E-10 | 43284.6 | 110370 | 2.54986 |
| | | | | | 6.61333E-15 | 13846.7 | 55172.4 | 3.98451 |
| -2.3012 | | | | | 0.000514339 | 3570.03 | 1467.78 | -2.43227 |
| | | | | | 1.88661E-06 | 2988.85 | 962.75 | -3.10449 |
| | | | | | 0.0081309 | 1058.55 | 394.9 | -2.68055 |
| | 0.0058795 | 2227.38 | 945.775 | -2.35508 | | | | |
| | 0.0128896 | 1767.65 | 833.4 | -2.12101 | | | | |
| | 0.000790203 | 676.333 | 1999.65 | 2.9566 | | | | |
| | 7.27321E-07 | 27317.5 | 61243.9 | 2.24193 | 2.6184E-09 | 12694.1 | 34530.8 | 2.72022 |
| | | | | | 1.1452E-07 | 5194.3 | 14989.4 | 2.88573 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 7.38562E-06 | 2435.55 | 6379.15 | 2.61918 |
| | | | | | 0.000425423 | #DIV/0! | 1865.8 | #DIV/0! |
| | | | | | 0.00078413 | #DIV/0! | 2347.17 | #DIV/0! |
| | 1.45514E-06 | 1611.65 | 623 | -2.58692 | 4.98673E-05 | 2551.4 | 629.6 | -4.05241 |
| | | | | | 0.00568367 | 1589.53 | 708.925 | -2.24217 |
| | | | | | 3.66435E-05 | 12785.9 | 30999.5 | 2.42451 |
| | | | | | 2.20104E-06 | 4788.43 | 13644.1 | 2.84939 |
| | | | | | 0.00256948 | 4897.1 | 1199.4 | -4.08296 |
| | 0.0141867 | 1116.9 | 200.2 | -5.57892 | 0.000880329 | 2373.08 | 1043.1 | -2.27502 |
| | | | | | 0.00130645 | 1509.8 | 695.9 | -2.16956 |
| | 9.07703E-06 | 1385.9 | 553.1 | -2.5057 | | | | |
| | 4.55852E-05 | #DIV/0! | 2786.3 | #DIV/0! | | | | |
| | 0.0007419 | 1399.18 | 440.3 | -3.17778 | 0.000328382 | 2643.03 | 761.475 | -3.47093 |
| | 3.60224E-16 | 8794.2 | 23782.1 | 2.70429 | 7.50283E-20 | 6169.2 | 21836.4 | 3.53958 |
| | 0.000456987 | 4916.6 | 13293.7 | 2.70383 | 9.23583E-07 | 2743.35 | 10256.5 | 3.73866 |
| 2.03334 | 4.42064E-17 | 4893.68 | 18670.2 | 3.81517 | 2.57878E-20 | 3486.63 | 18399.9 | 5.27729 |
| | 1.40246E-05 | 4675.08 | 9745.6 | 2.08459 | 5.73417E-09 | 4174.1 | 13505.5 | 3.23555 |
| -2.0623 | 3.40573E-06 | 1468.48 | 647.625 | -2.26748 | 5.66161E-07 | 1445.45 | 617.3 | -2.34157 |
| -2.2039 | 9.60422E-07 | 1483.7 | 673.1 | -2.20428 | 4.01824E-06 | 1436.95 | 677.275 | -2.12166 |
| | | | | | 4.75808E-08 | 2712.38 | 8452.48 | 3.11626 |
| | | | | | 8.46678E-14 | 3289.43 | 10262.2 | 3.11975 |
| 5.29364 | 5.0382E-15 | 5132.35 | 33086.4 | 6.44663 | 7.40201E-17 | 4109.33 | 29978.7 | 7.29529 |
| | | | | | 0.000262242 | 2432.58 | 542.825 | -4.48132 |
| | | | | | 0.00301588 | 1082.3 | #DIV/0! | #DIV/0! |
| -2.3031 | 0.000084681 | 2563.98 | 973.45 | -2.63391 | 2.16382E-13 | 2886.43 | 16226.9 | 5.6218 |
| | | | | | 1.64163E-12 | 806.4 | 5789.5 | 7.17944 |
| | 1.53722E-05 | 10834.3 | 24259.3 | 2.23913 | 2.67258E-17 | 3688.35 | 33040.8 | 8.95815 |
| | | | | | 0.0148632 | 3417.33 | 1253.7 | -2.72579 |
| | | | | | 4.23049E-05 | 5256.78 | 799.9 | -6.57179 |
| | 9.55448E-05 | 2959 | 1152.6 | -2.56724 | 1.704E-08 | 6109.4 | #DIV/0! | #DIV/0! |
| -3.9383 | 4.08758E-05 | 28197.7 | 4218.38 | -6.68448 | | | | |
| | 0.000088666 | 1746.78 | 808.067 | -2.16167 | | | | |
| | 0.000188036 | 574.7 | 250.9 | -2.29055 | 1.99563E-07 | 1166.83 | 413.4 | -2.82251 |
| | | | | | 2.06753E-07 | 2159.97 | 996.75 | -2.16701 |
| | 0.000591218 | 526 | 161.4 | -3.25898 | | | | |
| -2.0586 | 7.13094E-05 | 877.933 | #DIV/0! | #DIV/0! | 7.40941E-08 | 1537.93 | #DIV/0! | #DIV/0! |
| | | | | | 0.000052621 | 789.85 | 1971.88 | 2.49652 |
| | | | | | 3.79181E-13 | 4050.98 | 11916 | 2.94152 |
| | | | | | 9.83209E-19 | 4960.4 | 31230.5 | 6.29597 |
| | | | | | 1.42059E-14 | 6776.75 | 18590 | 2.7432 |
| | | | | | 2.38974E-14 | 3487.55 | 12005.6 | 3.44242 |
| | | | | | 1.84184E-07 | #DIV/0! | 1903.63 | #DIV/0! |
| -2.8126 | 5.51678E-14 | 1463.75 | #DIV/0! | #DIV/0! | 1.0237E-11 | 1552.58 | #DIV/0! | #DIV/0! |
| | 5.00227E-05 | 1040.83 | 300.6 | -3.46249 | | | | |
| | | | | | 3.87202E-21 | 17059.6 | 96364.3 | 5.64869 |
| | | | | | 4.41968E-20 | 18605.2 | 118855 | 6.38826 |
| | | | | | 3.79923E-06 | 2049.5 | 6479.03 | 3.16127 |
| | | | | | 1.66413E-18 | 8869.58 | 39641.8 | 4.46941 |
| -2.1289 | 1.79113E-05 | 5986.45 | 2590.98 | -2.3105 | | | | |
| -2.1773 | | | | | 5.38123E-09 | 3085.75 | 6729.88 | 2.18095 |
| | | | | | 7.05131E-06 | 780.3 | 2302.3 | 2.95053 |
| -2.5322 | 1.79485E-09 | 3048.3 | 704.667 | -4.32588 | 4.2556E-07 | 3742.48 | 1296.27 | -2.88712 |
| | | | | | 0.00840578 | #DIV/0! | 1461.15 | #DIV/0! |
| | 0.0138429 | 967.2 | 1983.07 | 2.05032 | | | | |
| | | | | | 1.16634E-16 | 8869.88 | 32957.1 | 3.71562 |
| | | | | | 2.43166E-06 | 7294.3 | 3393.1 | -2.14975 |
| -2.0435 | 1.13858E-05 | 849.075 | 322.767 | -2.63062 | | | | |
| | | | | | 0.00230377 | 3874.55 | 752.1 | -5.15164 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00682669 | 1701.58 | 374.625 | -4.54208 |
| 2.01139 | 1.45321E-13 | 7173.73 | 20922.4 | 2.91654 | 1.77282E-17 | 4613.1 | 19087.4 | 4.13765 |
| | | | | | 0.000653016 | 2460.68 | 440.633 | -5.58441 |
| | | | | | 7.50793E-05 | #DIV/0! | 4419.6 | #DIV/0! |
| | 1.87842E-10 | 4416.73 | 10198.5 | 2.30906 | 8.1992E-13 | 2833.78 | 7637.65 | 2.69522 |
| | | | | | 0.00142429 | #DIV/0! | 1503.23 | #DIV/0! |
| | 0.000017844 | 5046.55 | 1791.87 | -2.81636 | 0.000815941 | 3428.88 | 1496 | -2.29203 |
| | 2.05871E-05 | 5271.13 | 2066.1 | -2.55124 | 0.000256282 | 3432.73 | 1542.2 | -2.22586 |
| | 0.00375213 | 8270.2 | 3906.75 | -2.1169 | | | | |
| | | | | | 9.31511E-10 | #DIV/0! | 3750.4 | #DIV/0! |
| | | | | | 7.65425E-06 | #DIV/0! | 1976.88 | #DIV/0! |
| | | | | | 0.00100649 | #DIV/0! | 1263.8 | #DIV/0! |
| -2.2986 | | | | | 1.83198E-07 | #DIV/0! | 2513.83 | #DIV/0! |
| | | | | | 0.00878835 | 653 | 265.3 | -2.46136 |
| | | | | | 5.86846E-05 | 1210.33 | 497.167 | -2.43445 |
| 6.70908 | 1.05931E-17 | 1416.3 | 12356 | 8.72414 | 1.54425E-19 | 1630.08 | 16288.1 | 9.99222 |
| 8.09051 | 1.48492E-15 | 495.333 | 5175.43 | 10.4484 | 2.64614E-15 | 378 | 5327.1 | 14.0929 |
| | 6.27316E-06 | 4450.13 | 1890.08 | -2.35447 | | | | |
| | 0.000033706 | 3528.7 | 1737.05 | -2.03143 | | | | |
| | | | | | 3.77145E-07 | 1459.18 | 480.3 | -3.03805 |
| | 0.000834783 | 659.55 | 269.15 | -2.45049 | | | | |
| | | | | | 0.00470595 | 1324.2 | 291.2 | -4.54739 |
| | 0.000253195 | 967 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.000105741 | 1459.18 | 726.475 | -2.00857 |
| | 5.06809E-05 | 1647 | 594.25 | -2.77156 | | | | |
| | 1.8589E-06 | 3527.7 | 8089.68 | 2.29319 | 4.37012E-06 | 2338.4 | 4823.4 | 2.06269 |
| | | | | | 2.32007E-08 | 17373.1 | 39461.7 | 2.27143 |
| | 3.80727E-09 | 6704.93 | 16124.7 | 2.40491 | 7.44648E-11 | 3138.33 | 8182.7 | 2.60735 |
| | 2.12039E-07 | 3562 | 7364.78 | 2.0676 | | | | |
| | 0.000264692 | 784.1 | #DIV/0! | #DIV/0! | 5.9698E-06 | 1872.63 | 471.5 | -3.97165 |
| | | | | | 0.0217196 | 929.633 | 438.467 | -2.12019 |
| | | | | | 4.48267E-07 | 2180.55 | 453.325 | -4.81013 |
| | 0.00681698 | 731.833 | 221.4 | -3.30548 | 0.000643087 | 2270.8 | #DIV/0! | #DIV/0! |
| | 0.000549292 | 1968.98 | 736.325 | -2.67406 | 5.00142E-06 | 5028.1 | 1399.1 | -3.59381 |
| | | | | | 0.000312638 | 2188.83 | 281.7 | -7.77006 |
| | | | | | 0.00071028 | 771.2 | #DIV/0! | #DIV/0! |
| | 0.00967271 | 753.025 | 239.35 | -3.14612 | 0.000681273 | 1460.53 | 403.3 | -3.62144 |
| | | | | | 0.0114736 | 779.567 | 284.7 | -2.7382 |
| | | | | | 3.72918E-05 | 1209.93 | 499.45 | -2.42251 |
| | | | | | 0.000352768 | 1420.8 | 246.6 | -5.76156 |
| | 0.00273436 | 958.7 | 446.5 | -2.14714 | | | | |
| | 0.000299735 | 907.3 | #DIV/0! | #DIV/0! | | | | |
| | 0.000356608 | 29829.5 | 60654.8 | 2.03338 | 1.14509E-11 | 7158.65 | 43721 | 6.10744 |
| | 0.000152507 | 11853.5 | 31762 | 2.67956 | 6.39314E-11 | 2610.18 | 17349 | 6.64666 |
| | 8.99132E-06 | 1447.33 | #DIV/0! | #DIV/0! | 6.09006E-11 | 2668.83 | #DIV/0! | #DIV/0! |
| | | | | | 4.14568E-05 | 1855.1 | 3906.53 | 2.10583 |
| -2.4894 | | | | | | | | |
| -2.3813 | | | | | | | | |
| | | | | | 0.000445864 | #DIV/0! | 943.625 | #DIV/0! |
| | 0.000827159 | 3732.15 | 1542.4 | -2.4197 | | | | |
| -2.1939 | 0.00237533 | 8828.53 | 4203.88 | -2.10009 | | | | |
| | | | | | 0.0021611 | 1644.78 | 648 | -2.53823 |
| | | | | | 1.76645E-07 | 1029.37 | 2314.93 | 2.24888 |
| -3.6204 | 3.38515E-06 | 2456.45 | 397.4 | -6.1813 | | | | |
| | | | | | 0.00333969 | 929.175 | 342.6 | -2.71213 |
| | 2.16978E-06 | 2471.43 | 982 | -2.51673 | | | | |
| | | | | | 0.013082 | 2308.23 | 573.85 | -4.02235 |
| 3.00788 | 4.78716E-06 | 1574.5 | 5295.6 | 3.36335 | | | | |
| | | | | | 0.000754212 | 43397.2 | 13617.4 | -3.18689 |
| | | | | | 0.00278645 | 11578.5 | 3695.45 | -3.13317 |
| | | | | | 0.00226965 | 41635.5 | 19694.1 | -2.11411 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00260997 | 61583.6 | 29366.4 | -2.09707 |
| | 0.00149487 | 6503.73 | 2903.83 | -2.23971 | | | | |
| | | | | | 0.0014393 | 3317.4 | 752.775 | -4.40689 |
| | | | | | 2.79223E-05 | 4075.83 | 1088.53 | -3.74433 |
| | | | | | 0.00686217 | 26924.1 | 10774.1 | -2.49896 |
| | | | | | 0.0192738 | 17957.1 | 7548.88 | -2.37878 |
| 2.7752 | 1.05996E-05 | 1057.5 | 3189.88 | 3.01643 | | | | |
| | 0.00174501 | 662.033 | 285.433 | -2.3194 | | | | |
| | | | | | 0.00703805 | 3684.73 | 1755.5 | -2.09896 |
| | | | | | 0.0213277 | 2235.73 | 762.367 | -2.93262 |
| | | | | | 0.000305722 | 3118.95 | 1527.68 | -2.04163 |
| | | | | | 6.27961E-12 | 13288.3 | 35387.1 | 2.66303 |
| | | | | | 0.00131251 | 1068.7 | 531.125 | -2.01214 |
| | | | | | 4.59333E-06 | 1567.28 | 492.6 | -3.18164 |
| | 0.000690144 | 3492.68 | 1612.88 | -2.1655 | | | | |
| | | | | | 0.00297682 | 22810.5 | 7858.98 | -2.90248 |
| | | | | | 0.00301116 | 21380.6 | 9046.6 | -2.36338 |
| | | | | | 0.00418986 | 21725.4 | 9954.53 | -2.18246 |
| | | | | | 0.00026727 | 19913.5 | 7295.08 | -2.72972 |
| | 0.000014469 | 4242.98 | 2087.9 | -2.03217 | | | | |
| | 0.0110199 | 4717.85 | 1336.48 | -3.53007 | | | | |
| | | | | | 0.000868181 | 48639.3 | 20499 | -2.37277 |
| | | | | | 3.08633E-05 | 37719.2 | 16051 | -2.34995 |
| | 6.62775E-05 | 20805.5 | 8638.48 | -2.40847 | | | | |
| | 0.000030821 | 15024.7 | 6742 | -2.22852 | | | | |
| | 0.000029771 | 19161.9 | 8338.45 | -2.29802 | | | | |
| | | | | | 1.59808E-05 | 37702.9 | 16821 | -2.24143 |
| | | | | | 0.000111351 | 43258.1 | 18653.7 | -2.319 |
| | | | | | 0.00421485 | 75696.4 | 36531.9 | -2.07206 |
| -2.7025 | 8.1642E-08 | 1264.53 | 404.1 | -3.12924 | | | | |
| | | | | | 3.12225E-08 | 1445.2 | 530.333 | -2.72508 |
| | | | | | 0.00225234 | 55186.5 | 22710.2 | -2.43003 |
| | | | | | 0.00628597 | 39872.2 | 17854.2 | -2.23322 |
| | | | | | 1.22456E-06 | 3939.38 | 8904.98 | 2.2605 |
| -2.8787 | 4.03276E-10 | 7739.98 | 1770.33 | -4.37206 | | | | |
| -2.4051 | 2.35912E-08 | 16939.4 | 3400.43 | -4.98155 | | | | |
| | 1.29178E-06 | 596.95 | 134.5 | -4.43829 | | | | |
| | | | | | 0.000318602 | 1003.17 | 360.1 | -2.7858 |
| | | | | | 1.82017E-09 | 4238.53 | 8938.9 | 2.10896 |
| | | | | | 1.41579E-12 | 7035.8 | 36023.3 | 5.12 |
| | 3.69208E-05 | 18430.8 | 37343.4 | 2.02614 | | | | |
| | 1.25397E-07 | 10397.4 | 28486.1 | 2.73974 | | | | |
| 2.43383 | 3.40839E-13 | 3932.05 | 15215.8 | 3.86967 | | | | |
| 3.07308 | 7.6773E-14 | 6789.3 | 43097.2 | 6.34781 | | | | |
| | | | | | 2.11768E-16 | 4573.45 | 40850 | 8.93198 |
| | | | | | 0.000403482 | 1348 | 411.9 | -3.27264 |
| | | | | | 0.0214487 | 1164.78 | 399.4 | -2.91631 |
| | | | | | 0.00495259 | 1959.03 | 7266.98 | 3.70949 |
| 2.05433 | | | | | | | | |
| | | | | | 1.07146E-08 | 2290.53 | 665.925 | -3.43961 |
| | | | | | 9.45574E-07 | 2227.45 | 788.3 | -2.82564 |
| | | | | | 3.74221E-07 | 2701 | 405.2 | -6.66584 |
| | | | | | 5.45485E-09 | 1819.37 | 541.7 | -3.35862 |
| | 0.00374888 | 1083 | 466.4 | -2.32204 | | | | |
| | | | | | 0.000397923 | 2036.87 | 808.233 | -2.52015 |
| | | | | | 0.00124038 | 1069.85 | 358.7 | -2.98258 |
| | | | | | 0.00235766 | 2049.53 | 979.1 | -2.09327 |
| | 0.000300757 | 19406.2 | 2633.93 | -7.36779 | | | | |
| | 0.00169148 | 15717.4 | 3178.15 | -4.94544 | | | | |
| | 0.000165274 | 3051.63 | 6469.53 | 2.12003 | | | | |
| | 1.83486E-05 | 2793.9 | 1248.48 | -2.23785 | | | | |
| | | | | | 9.77522E-08 | 13189.3 | 572.967 | -23.0193 |
| | | | | | 8.22264E-06 | 11416.1 | 1130.47 | -10.0986 |
| | | | | | 1.00054E-05 | 2672.35 | 6423.9 | 2.40384 |
| | | | | | 1.93979E-05 | 2281.78 | 1086.63 | -2.09987 |
| | | | | | 3.02908E-07 | 1063.65 | 2333.05 | 2.19344 |
| | 0.00913276 | 836.8 | 394.967 | -2.11866 | | | | |
| | 2.61661E-10 | 12112.2 | 24396.1 | 2.01418 | | | | |
| | 1.85572E-06 | 1404.58 | 372.833 | -3.7673 | | | | |
| | 1.27511E-05 | 2120.93 | 997.825 | -2.12555 | | | | |
| | | | | | 4.00148E-16 | 7333.58 | 20550 | 2.80218 |
| | | | | | 1.07138E-07 | 1950.88 | 582.75 | -3.3477 |
| | | | | | 2.58804E-07 | 4459.93 | 9578.78 | 2.14774 |
| | | | | | 0.0134149 | #DIV/0! | 604.967 | #DIV/0! |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 0.01375 | 553.933 | 256.6 | -2.15874 | | | | |
| | | | | | 4.15401E-12 | 7424.3 | 21130.7 | 2.84615 |
| #DIV/0! | 2.14392E-05 | 525.65 | #DIV/0! | #DIV/0! | 0.00135488 | 1685.7 | 285.25 | -5.90955 |
| | 0.00382974 | 1523.88 | 563.1 | -2.70622 | 2.25069E-06 | 2550.83 | 722.933 | -3.52844 |
| | | | | | 1.51352E-05 | 603.667 | 287.8 | -2.09752 |
| | 6.94666E-09 | 1954.98 | 5360.13 | 2.74179 | 8.84486E-10 | 1539.35 | 4133.58 | 2.68527 |
| | 0.000135399 | 1508.4 | 3637.6 | 2.41156 | 1.10288E-06 | #DIV/0! | 2399.88 | #DIV/0! |
| | 0.00684869 | 535.567 | 191.3 | -2.79962 | | | | |
| | 0.000283426 | 6298.48 | 15508 | 2.46218 | | | | |
| | 7.40651E-07 | 1122.93 | 424.65 | -2.64435 | 8.85472E-06 | 1985.7 | 837.475 | -2.37106 |
| | 2.59876E-09 | 2197.88 | 928.333 | -2.36755 | 1.99922E-10 | 3675.68 | 1359.5 | -2.7037 |
| 2.00394 | 3.3902E-10 | 4967.03 | 38840.9 | 7.81975 | 1.22493E-14 | 2331.58 | 28132 | 12.0656 |
| | | | | | 1.04271E-19 | 5574.38 | 29620.3 | 5.31365 |
| | | | | | 8.68466E-14 | 6384.13 | 36673.8 | 5.74452 |
| | 9.05099E-07 | 26837.9 | 61390.7 | 2.28747 | 2.80883E-16 | 9929.53 | 70243.2 | 7.07417 |
| | | | | | 0.00112247 | 1198.87 | 248.35 | -4.82733 |
| | | | | | 6.3264E-12 | 9639.13 | 42512.3 | 4.41039 |
| | | | | | 4.52104E-07 | 36331.1 | 8625.15 | -4.21223 |
| | | | | | 6.27411E-08 | 5368.75 | 2090.03 | -2.56874 |
| | | | | | 7.76542E-09 | 8379.05 | 2445.35 | -3.42652 |
| | | | | | 0.00743531 | 1152.53 | #DIV/0! | #DIV/0! |
| | | | | | 0.00579125 | 3270.63 | 881.875 | -3.70872 |
| | 2.28963E-05 | 170308 | 79698.6 | -2.1369 | 1.92653E-10 | 292471 | 81235.5 | -3.60029 |
| | 0.000057769 | 98587.4 | 47417.4 | -2.07914 | 1.73162E-08 | 124042 | 42952.6 | -2.88788 |
| | | | | | | | | |
| -3.5218 | 1.44967E-05 | 1024.6 | 219.6 | -4.66576 | 2.32467E-06 | 952.675 | #DIV/0! | #DIV/0! |
| | 1.90602E-07 | 874.25 | 271.6 | -3.21889 | 4.24944E-05 | 1391 | 536.9 | -2.5908 |
| | 0.000884876 | 746.75 | 240.425 | -3.10596 | 0.000866234 | 1570.48 | 390.025 | -4.0266 |
| | | | | | 5.93235E-10 | 1584.08 | 579 | -2.73588 |
| | | | | | 1.72733E-06 | 1353.85 | 551.175 | -2.4563 |
| 2.07331 | 0.000295254 | 3187.93 | 6611.58 | 2.07394 | 5.57642E-05 | 3245.48 | 6769.6 | 2.08586 |
| | 0.000164712 | 1240.48 | 584.7 | -2.12156 | | | | |
| | 0.000175926 | 1255.6 | 2909.9 | 2.31754 | 1.33924E-07 | #DIV/0! | 2603.25 | #DIV/0! |
| | | | | | 1.41067E-06 | 2639.48 | 679.267 | -3.88577 |
| | | | | | 8.03675E-05 | 2313.68 | 473.825 | -4.88297 |
| | | | | | 3.92965E-07 | 2980.4 | 7014.13 | 2.35342 |
| | | | | | 0.00242149 | #DIV/0! | 3026.95 | #DIV/0! |
| | 0.00786389 | #DIV/0! | 795.767 | #DIV/0! | | | | |
| | 1.64972E-09 | 12698.5 | 2453.73 | -5.17517 | 2.29444E-10 | 6873.28 | 1340.73 | -5.12654 |
| -2.0874 | 4.17876E-08 | 5222.6 | 1565.95 | -3.3351 | 1.19353E-08 | 3249.78 | 1007 | -3.22718 |
| | 4.54869E-08 | 9804.6 | 2159.4 | -4.54043 | 2.39026E-11 | 7778 | 1060.65 | -7.33324 |
| -2.3521 | 1.92337E-09 | 3972.43 | 688.725 | -5.7678 | 5.18068E-11 | 2748.58 | 455.2 | -6.03817 |
| -2.5859 | 0.000127705 | 3339.48 | 850.167 | -3.92802 | 9.51797E-06 | 2445.25 | 591.5 | -4.13398 |
| | 0.000159582 | 1727.98 | #DIV/0! | #DIV/0! | | | | |
| | 0.000326459 | 662.8 | #DIV/0! | #DIV/0! | | | | |
| | 2.65081E-05 | 998.55 | 371.85 | -2.68536 | 2.35611E-05 | 1615.68 | 542.575 | -2.97779 |
| | 9.05414E-07 | 25211.7 | 57338.3 | 2.27427 | 4.55784E-09 | 18331.5 | 50986 | 2.78133 |
| | 6.63407E-09 | 9869.68 | 36020 | 3.64957 | 5.54347E-09 | 7548.08 | 26128.2 | 3.46157 |
| | | | | | 2.43598E-07 | 1803.95 | 4231.3 | 2.34557 |
| | | | | | 3.76563E-14 | 8819.35 | 24700.5 | 2.80071 |
| 5.61255 | 9.40897E-13 | 710.767 | 6171.88 | 8.68341 | 1.81084E-12 | 720.1 | 5929.63 | 8.23445 |
| | 1.98228E-05 | #DIV/0! | 983.767 | #DIV/0! | | | | |
| | | | | | 1.23444E-14 | 4255.65 | 11931.5 | 2.80368 |
| | | | | | 0.000851412 | 5530.03 | 11469.3 | 2.074 |
| | 3.47835E-08 | 2252.13 | 6578.2 | 2.92089 | 9.48086E-11 | 1845.75 | 6407.33 | 3.47139 |
| | | | | | 0.00950073 | #DIV/0! | 799.267 | #DIV/0! |
| 4.13549 | 2.34748E-09 | 1072.68 | 4082.4 | 3.80581 | 5.31195E-08 | 1334.85 | 3908.48 | 2.92803 |
| 3.12237 | 9.8752E-11 | 1710.15 | 7748.7 | 4.53101 | 5.03854E-13 | 1644.6 | 6727.85 | 4.09087 |
| 2.09496 | | | | | | | | |
| | 6.45171E-07 | 3840.95 | 1757.95 | -2.1849 | | | | |
| | 0.000872288 | 1285.97 | 576.3 | -2.23142 | | | | |

| | | | | | | | | |
|---------|-------------|---------|---------|-------------|-------------|---------|---------|----------|
| | | | | 2.82048E-06 | 49507.1 | 115069 | 2.3243 | |
| | | | | 1.50962E-09 | 19814.6 | 72760.4 | 3.67206 | |
| | 0.000382195 | 1363.98 | 3859.13 | 2.82932 | 0.000101442 | 1460.55 | 4140.55 | 2.83493 |
| | | | | | 0.0046939 | 3323.8 | 809.75 | -4.10472 |
| -2.6895 | | | | | 0.000455047 | #DIV/0! | 2775.58 | #DIV/0! |
| | | | | | 0.0161663 | #DIV/0! | 1668.4 | #DIV/0! |
| | | | | | 3.59461E-05 | 1251.73 | 2553.83 | 2.04024 |
| | 1.08158E-09 | 3640.85 | 8729.83 | 2.39774 | 4.56927E-12 | 1936.17 | 5066.28 | 2.61665 |
| | | | | | 0.000134353 | #DIV/0! | 1073.85 | #DIV/0! |
| | | | | | 1.11594E-05 | #DIV/0! | 1430.85 | #DIV/0! |
| | | | | | 5.08068E-09 | #DIV/0! | 3227.08 | #DIV/0! |
| | | | | | 1.42956E-11 | 2190.75 | 777.675 | -2.81705 |
| | 0.000747239 | 1906.45 | 834.4 | -2.28482 | 0.000102364 | 2741.6 | 1110.58 | -2.46863 |
| | 0.0074958 | 583.325 | #DIV/0! | #DIV/0! | 0.000845568 | 1221.7 | 578.075 | -2.11339 |
| | | | | | 8.84763E-07 | 2546.53 | 1254.38 | -2.03011 |
| | | | | | 5.80283E-06 | #DIV/0! | 1694.1 | #DIV/0! |
| | | | | | 9.16666E-08 | 981 | 2251.3 | 2.2949 |
| -2.746 | | | | | | | | |
| | 0.000448886 | 796.35 | 347.675 | -2.2905 | | | | |
| | 5.13919E-07 | 1492.73 | 336.975 | -4.42978 | 5.09556E-05 | 1378.5 | 467.775 | -2.94693 |
| | 5.47997E-06 | 851.175 | 311.825 | -2.72966 | 1.02004E-06 | 1061.48 | 386.067 | -2.74946 |
| | 7.66597E-05 | 1179.9 | 383.3 | -3.07827 | 0.000146732 | 1460.53 | #DIV/0! | #DIV/0! |
| | 4.36263E-05 | 3138.9 | 7951.38 | 2.53317 | 7.60714E-06 | 1764.78 | 4404.38 | 2.49571 |
| | 1.17284E-06 | 1796.55 | 4701.33 | 2.61686 | | | | |
| | 0.002913 | 474.4 | 2140.78 | 4.51259 | 0.00159401 | 1093.7 | 3916.6 | 3.58106 |
| | | | | | 0.00016267 | 14743.4 | 4615.25 | -3.19449 |
| | | | | | 2.14983E-09 | 3748.38 | 861.4 | -4.35149 |
| | 3.51858E-05 | 6076.58 | 2896.13 | -2.09817 | | | | |
| | | | | | 0.00162464 | #DIV/0! | 1160.63 | #DIV/0! |
| | | | | | 0.00934208 | 1194.8 | 335.55 | -3.56072 |
| | | | | | 0.000798802 | #DIV/0! | 4731.17 | #DIV/0! |
| | 1.39471E-05 | 3799.18 | 1487 | -2.55493 | 2.72698E-05 | 2324.1 | 1033.88 | -2.24795 |
| | 1.92246E-05 | 15440.7 | 6288.75 | -2.45529 | 1.03806E-05 | 8008.03 | 3444.78 | -2.32469 |
| -3.1031 | 4.44414E-11 | 3523.9 | 695.35 | -5.06781 | 1.40289E-11 | 4734.63 | 954.4 | -4.96084 |
| -2.4265 | 1.83382E-09 | 2537.43 | 585.025 | -4.33729 | 7.02421E-11 | 3857.55 | 853.367 | -4.52039 |
| -2.3733 | 7.6676E-06 | 1639.8 | 624.8 | -2.62452 | 3.60761E-07 | 2416.58 | 836.825 | -2.88779 |
| -3.2085 | 5.97528E-05 | 1360 | 571.2 | -2.38095 | | | | |
| | 0.00440763 | 1027.78 | 430.167 | -2.38925 | 4.41097E-05 | 1796.23 | 650.433 | -2.76158 |
| | | | | | 7.69843E-12 | 5393.15 | 12365.5 | 2.29282 |
| | | | | | 1.30027E-05 | 1487.23 | 3048.33 | 2.04967 |
| | | | | | 1.57946E-14 | #DIV/0! | 2331.03 | #DIV/0! |
| | | | | | 2.60374E-05 | 2304.33 | 866.225 | -2.66019 |
| -7.2453 | 2.47573E-07 | 1670.68 | 450.533 | -3.70822 | 5.44383E-05 | 1471.95 | 427.7 | -3.44155 |
| -16.804 | 9.92373E-09 | 6376.03 | 461.9 | -13.8039 | | | | |
| -15.66 | 2.19635E-09 | 7893.63 | 639 | -12.3531 | | | | |
| | | | | | 9.10151E-07 | 76354.4 | 182362 | 2.38836 |
| | | | | | 4.47725E-09 | 3164.3 | 6799.5 | 2.14882 |
| | 0.00294584 | 645 | #DIV/0! | #DIV/0! | 4.38591E-06 | 1341.47 | 374.5 | -3.58202 |
| | 3.95781E-05 | 1050.6 | 410.6 | -2.55869 | | | | |
| | | | | | 0.00130113 | #DIV/0! | 3826.93 | #DIV/0! |
| | | | | | 1.74933E-05 | 2148.65 | 4610.75 | 2.14588 |
| | | | | | 1.57085E-05 | 2224.5 | 4794.55 | 2.15534 |
| | | | | | 6.41556E-07 | 6119.88 | 15754.4 | 2.57429 |
| | | | | | 5.00792E-07 | 2920.95 | 7379.98 | 2.52657 |
| | 0.00187632 | 677.9 | 306.5 | -2.21175 | | | | |
| | | | | | 1.53485E-15 | 6447.6 | 14789.1 | 2.29373 |
| | | | | | 1.70227E-06 | 2823.6 | 6315.65 | 2.23674 |
| | | | | | 3.68876E-08 | 19041.2 | 49609.9 | 2.60539 |
| | | | | | 2.37819E-10 | 10597.5 | 38903.3 | 3.67099 |
| | | | | | 1.17581E-10 | 11329.3 | 44745.2 | 3.94951 |
| | | | | | 1.48666E-13 | 3511.75 | 9073.43 | 2.58373 |
| | | | | | 0.00467907 | 1325.6 | 505.367 | -2.62305 |
| | | | | | 0.0103733 | 1709.08 | 800.375 | -2.13534 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 7.37663E-10 | 4865.68 | 12789.6 | 2.62853 | 2.96412E-11 | 4180.3 | 12247.2 | 2.92974 |
| | | | | | 2.04485E-07 | 2200.48 | 7392.9 | 3.35968 |
| | 7.49047E-05 | 2443.2 | 5770.9 | 2.36203 | | | | |
| 6.2317 | 1.40444E-14 | 2152.08 | 16940.5 | 7.87168 | 1.64744E-13 | 2437.15 | 13729.7 | 5.63351 |
| 15.1678 | 4.76433E-13 | 1026.97 | 16142 | 15.7181 | 1.74545E-13 | 1701 | 14940 | 8.78308 |
| 9.47959 | 1.53441E-13 | 374.967 | 2824 | 7.53134 | | | | |
| | | | | | 2.70125E-15 | 3921.15 | 16196.4 | 4.13051 |
| | | | | | 3.41941E-09 | 3628.05 | 8716.78 | 2.40261 |
| | | | | | 1.14354E-07 | 1125.5 | 5381.9 | 4.78179 |
| 3.07851 | 1.32984E-08 | 3057.48 | 13896.8 | 4.54519 | 8.64508E-07 | 2429.98 | 7525.05 | 3.09676 |
| | | | | | 1.47134E-07 | #DIV/0! | 10533 | #DIV/0! |
| | | | | | 4.63216E-07 | #DIV/0! | 11536.5 | #DIV/0! |
| | | | | | 1.79237E-06 | #DIV/0! | 1499.43 | #DIV/0! |
| | | | | | 2.79936E-13 | 6691.03 | 28466.6 | 4.25445 |
| 2.87415 | 1.64842E-05 | 2090.03 | 6328.98 | 3.02818 | 6.36131E-08 | 2814.5 | 10301.9 | 3.66029 |
| | | | | | 9.03672E-08 | 5823.5 | 12822.9 | 2.20192 |
| | 1.23789E-08 | 997.375 | 286.967 | -3.47558 | | | | |
| | | | | | 2.14895E-08 | 6989.05 | 15163.7 | 2.16964 |
| | | | | | 1.18785E-06 | #DIV/0! | 2920.95 | #DIV/0! |
| | 5.68882E-08 | 15373.6 | 37536.5 | 2.44162 | 2.65648E-15 | 8649 | 49959.1 | 5.77628 |
| -2.3487 | | | | | 7.4938E-16 | 21749.1 | 2311 | -9.41113 |
| | | | | | 0.00806553 | #DIV/0! | 1528.5 | #DIV/0! |
| -3.1085 | 9.59236E-05 | 6359.3 | 2178.38 | -2.91929 | | | | |
| -3.0039 | 1.28107E-05 | 15807.1 | 5788.73 | -2.73067 | | | | |
| | 1.17363E-06 | 7477.2 | 15544.3 | 2.07889 | | | | |
| -3.237 | 4.75936E-10 | 1536.9 | 224.5 | -6.84588 | 8.62277E-06 | 1699 | 490.8 | -3.4617 |
| | 0.000223834 | 736.3 | 213.3 | -3.45195 | 3.71862E-05 | 1442.15 | 487.333 | -2.95927 |
| | | | | | 0.0113481 | 1079.67 | 288.7 | -3.73975 |
| | | | | | 1.28961E-07 | 1149.55 | 4854.75 | 4.22317 |
| | | | | | 0.0199269 | #DIV/0! | 1913.93 | #DIV/0! |
| -4.3366 | 1.9337E-06 | 1702.35 | 468.825 | -3.6311 | 5.29084E-08 | 3218.05 | 660.625 | -4.87122 |
| -2.4842 | 4.57157E-06 | 6791.63 | 1900.63 | -3.57336 | 8.89718E-07 | 4340.68 | 1260.23 | -3.44437 |
| | | | | | | | | |
| | 1.25589E-05 | 1049.35 | 364.85 | -2.87611 | 1.26895E-06 | 1986.08 | 572.45 | -3.46943 |
| | 0.000031389 | 36380.2 | 15825.9 | -2.29878 | | | | |
| | | | | | 1.96844E-05 | 1314.1 | 590.05 | -2.2271 |
| | 0.000475649 | 1690.85 | 821.833 | -2.05741 | | | | |
| | 8.80555E-05 | 1947.98 | 822.55 | -2.36821 | 0.000253208 | 2922.53 | 1355.9 | -2.15542 |
| | 1.27079E-05 | 773.825 | 264.867 | -2.92156 | | | | |
| | 6.69757E-06 | 940 | 438.3 | -2.14465 | | | | |
| | 2.02924E-06 | 1868.1 | 591.233 | -3.15967 | 1.98574E-05 | 1856.4 | 909.333 | -2.0415 |
| | | | | | 3.16811E-09 | 13405.1 | 30015.8 | 2.23913 |
| | | | | | 2.99347E-09 | 11361.3 | 28262 | 2.48757 |
| | 0.0135721 | 551.767 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 6.2121E-10 | 14871.6 | 43648.9 | 2.93505 |
| | 6.46171E-06 | 7244.25 | 16586.6 | 2.28962 | 5.56084E-10 | 3240.63 | 10713 | 3.30584 |
| | | | | | 2.07303E-08 | 5642.6 | 18809.3 | 3.33344 |
| | | | | | 3.00128E-08 | 5751.33 | 19383.5 | 3.37026 |
| | | | | | 5.65484E-11 | 5922.4 | 20561.8 | 3.47187 |
| | | | | | 0.000170223 | 1271.7 | 538.75 | -2.36046 |
| | | | | | 1.70591E-07 | 5167.18 | 12290.9 | 2.37864 |
| | 1.88664E-08 | 23199.9 | 56962.2 | 2.45528 | 1.04251E-15 | 13044.6 | 71937.4 | 5.51473 |
| 2.17071 | 3.19098E-06 | 7723.6 | 19497.5 | 2.5244 | 3.36567E-05 | 8331.85 | 17019.5 | 2.04271 |
| | | | | | 0.00541643 | 1809.38 | 448.1 | -4.03788 |
| 2.38656 | | | | | | | | |
| 3.66315 | | | | | | | | |
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| | | | | | 0.00864397 | 3724.87 | 814.625 | -4.57249 |
| 3.09058 | | | | | 0.000132201 | 1265.6 | #DIV/0! | #DIV/0! |
| 4.81038 | | | | | | | | |
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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 7.16202E-06 | 1923.58 | 575.975 | -3.33968 | 1.96624E-09 | 2399.8 | #DIV/0! | #DIV/0! |
| 2.26642 | | | | | 0.000145979 | 1995.6 | 4517.78 | 2.26387 |
| 3.09537 | 4.97184E-11 | 4057.75 | 14960.9 | 3.68699 | 3.72598E-11 | 3912.73 | 13668.5 | 3.49335 |
| 2.73336 | 3.03243E-16 | 2620.85 | 11894.4 | 4.53838 | 1.24303E-15 | 2134.13 | 8382.5 | 3.92784 |
| 2.21636 | | | | | | | | |
| | | | | | 0.00177142 | 1285.03 | #DIV/0! | #DIV/0! |
| | | | | | 0.00275005 | 1043.97 | 402.7 | -2.59242 |
| -2.0011 | | | | | | | | |
| | 0.000363731 | 1792.13 | 4377.88 | 2.44284 | 4.66253E-08 | 1367.9 | 3702.05 | 2.70637 |
| | | | | | 1.62445E-11 | 3364.88 | 11380.7 | 3.38221 |
| | 0.0119753 | 787.25 | 2322.28 | 2.94986 | 2.24092E-07 | #DIV/0! | 5111.53 | #DIV/0! |
| | | | | | 6.25772E-07 | #DIV/0! | 1943.15 | #DIV/0! |
| | | | | | 0.000102526 | 1734 | 531.5 | -3.26246 |
| | | | | | 1.56669E-12 | 7488.68 | 23767.7 | 3.17382 |
| | 1.65829E-08 | 2624.5 | 6876.7 | 2.62019 | 1.05996E-12 | 1535.65 | 5728.35 | 3.73024 |
| | 2.20618E-10 | 12179.5 | 30389.6 | 2.49514 | 1.25363E-17 | 5604.85 | 26169.8 | 4.66913 |
| | | | | | 1.31114E-09 | #DIV/0! | 1194.2 | #DIV/0! |
| | 0.00358163 | 2076.4 | 856.925 | -2.42308 | 0.00167959 | 1899.43 | 690.25 | -2.75179 |
| | | | | | 5.91896E-12 | 24699.5 | 50137.7 | 2.02991 |
| | | | | | 8.78374E-06 | 6203.98 | 13470.9 | 2.17134 |
| | | | | | 2.6777E-08 | 6186.43 | 16204.9 | 2.61943 |
| | | | | | 1.01775E-12 | 6651.55 | 20238.5 | 3.04268 |
| | | | | | 4.78588E-06 | 1950.95 | 798.675 | -2.44273 |
| | | | | | 3.26723E-15 | 1814.55 | 8903.08 | 4.90649 |
| | | | | | 7.05959E-11 | 3712.73 | 12163.4 | 3.27613 |
| | | | | | 3.75822E-05 | 1583.35 | 598.375 | -2.64608 |
| | | | | | 2.40348E-08 | 2073.93 | 981.475 | -2.11307 |
| | 0.00881575 | 1054.8 | 478.1 | -2.20623 | | | | |
| | 2.44316E-06 | 1786.93 | 884.075 | -2.02124 | | | | |
| -2.994 | 2.96616E-07 | 1082.38 | 340.15 | -3.18205 | 3.3009E-07 | 1193.75 | 351.1 | -3.40003 |
| | | | | | 6.71883E-07 | 2537.3 | 1121.43 | -2.26257 |
| | | | | | 4.35077E-05 | 2605.65 | 533.333 | -4.88559 |
| | | | | | 3.21911E-10 | 9358.4 | 3465.85 | -2.70017 |
| | | | | | 4.90894E-08 | 3663.78 | 1392.2 | -2.63164 |
| -2.3459 | | | | | | | | |
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| | | | | | 3.91839E-13 | 12077.3 | 29498.1 | 2.44244 |
| | | | | | 1.11955E-05 | #DIV/0! | 2332.13 | #DIV/0! |
| | 0.000452632 | 1964.03 | 864.975 | -2.27062 | 1.56819E-07 | 4162.8 | 1022.05 | -4.07299 |
| | | | | | 6.10245E-07 | 1602.68 | #DIV/0! | #DIV/0! |
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| | 0.000193472 | 2022.18 | 4869 | 2.4078 | 0.00020207 | 1319.58 | 2813.53 | 2.13214 |
| 3.39073 | 1.271E-11 | 7126.08 | 30489.2 | 4.27853 | 5.89604E-10 | 6134.3 | 19180.3 | 3.12673 |
| 4.15551 | 7.10649E-13 | 4144.38 | 21261.7 | 5.13025 | 2.03085E-10 | 4060.5 | 13983.6 | 3.44382 |
| 2.47535 | 1.77285E-09 | 1735.78 | 5639.9 | 3.24921 | | | | |
| | 1.13615E-09 | 9670.48 | 22493.9 | 2.32603 | 1.24471E-12 | 6130.1 | 17772.9 | 2.89929 |
| | 0.00297117 | 516.967 | 1060.23 | 2.05086 | | | | |
| | 1.94136E-08 | 1122.2 | 421.125 | -2.66477 | 1.92606E-08 | 1745.48 | 688.625 | -2.53472 |
| | | | | | 0.000166945 | #DIV/0! | 1333.93 | #DIV/0! |
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| | | | | | 5.87023E-13 | 8684.68 | 23994.3 | 2.76283 |
| | | | | | | | | |
| | | | | | 0.000078649 | 4533.63 | 1885.2 | -2.40485 |
| | 0.00826541 | 1449.1 | 3031.18 | 2.09176 | 0.000024474 | #DIV/0! | 4065.65 | #DIV/0! |
| | 0.00308046 | 1226.7 | 2839.98 | 2.31513 | 2.58772E-06 | #DIV/0! | 3695.65 | #DIV/0! |
| | 0.00106094 | 920.825 | 211.2 | -4.35997 | 5.75947E-05 | 1832.9 | 656.2 | -2.7932 |
| | | | | | 0.000159204 | 877.175 | 372.2 | -2.35673 |
| | | | | | 2.73078E-19 | 17917.5 | 84734.2 | 4.72913 |
| | | | | | 2.85275E-06 | #DIV/0! | 1575.33 | #DIV/0! |
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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 1.60053E-05 | 1534.55 | 527.15 | -2.91103 |
| | 2.6877E-09 | 2324.18 | 1117.88 | -2.0791 | | | | |
| -3.4946 | | | | | | | | |
| -2.236 | | | | | | | | |
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| | 8.2136E-06 | 3291.43 | 11343.9 | 3.44649 | 1.00009E-09 | 2026.55 | 13268.2 | 6.54716 |
| | 0.0135006 | #DIV/0! | 2893.9 | #DIV/0! | 1.02225E-08 | #DIV/0! | 2554.28 | #DIV/0! |
| | 0.00100741 | 1058.53 | 499.175 | -2.12057 | | | | |
| | 2.72414E-05 | 1047.68 | 3441.6 | 3.28499 | 2.8615E-06 | 693.25 | 2921.7 | 4.2145 |
| | 4.2769E-06 | 11990.1 | 31346.3 | 2.61434 | 1.10354E-12 | 4309.35 | 32765.4 | 7.60332 |
| | 5.61981E-05 | 1301.38 | 630.6 | -2.06371 | | | | |
| | | | | | 7.67388E-05 | 4681.48 | 2175.4 | -2.15201 |
| | | | | | 0.00330003 | 1908.9 | 684.9 | -2.78712 |
| | 1.55354E-05 | 1723.03 | 624.95 | -2.75706 | 3.99609E-10 | 4496.15 | 958.9 | -4.68886 |
| #DIV/0! | | | | | | | | |
| | | | | | 0.0038943 | 1544.35 | 523.45 | -2.95033 |
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| | | | | | 0.000260557 | #DIV/0! | 684.667 | #DIV/0! |
| | 5.92871E-09 | 20745.1 | 8824 | -2.35098 | | | | |
| | 2.93268E-10 | 2592.65 | 7479.68 | 2.88495 | 9.59979E-09 | 2159.75 | 4680.05 | 2.16694 |
| | | | | | 7.24428E-09 | 2923.33 | 6541.2 | 2.23759 |
| 4.35773 | 5.76282E-11 | 2836.98 | 26900.4 | 9.48207 | 1.20592E-13 | 3241.87 | 39723.2 | 12.2532 |
| 3.08424 | 3.94224E-11 | 5407.5 | 47077.6 | 8.70597 | 1.87756E-14 | 4539.68 | 65143.3 | 14.3498 |
| | 2.74207E-06 | 1503 | 723.767 | -2.07664 | | | | |
| | | | | | 1.0169E-08 | #DIV/0! | 2721.73 | #DIV/0! |
| | | | | | 1.90099E-05 | 21279.8 | 3710.35 | -5.73525 |
| | 2.55116E-06 | 17539.6 | 37788.3 | 2.15445 | 5.14669E-12 | 8104.45 | 31282.5 | 3.85992 |
| | 3.74795E-06 | 18668.7 | 40210 | 2.15387 | 3.18191E-13 | 7519.68 | 36094.5 | 4.8 |
| | | | | | 8.62253E-05 | 1229.78 | 589.967 | -2.08448 |
| | | | | | 0.00479868 | 1337.63 | 603.075 | -2.21801 |
| | | | | | 0.0108993 | 1822.2 | 902.3 | -2.01951 |
| | | | | | 7.51897E-09 | 4968.03 | 11331.4 | 2.28086 |
| | | | | | 0.000386734 | #DIV/0! | 2358.73 | #DIV/0! |
| | | | | | 1.81084E-08 | 9583.48 | 19508.7 | 2.03566 |
| | 6.70433E-05 | 1109.43 | 349.025 | -3.17864 | 1.54522E-05 | 2120.48 | 557.525 | -3.80337 |
| | | | | | 0.00191299 | 796.1 | 304.9 | -2.61102 |
| | | | | | 2.5388E-12 | 5136.43 | 14269.2 | 2.77805 |
| | 3.00927E-07 | 1628.48 | 4244.7 | 2.60655 | | | | |
| | 6.04414E-08 | 2398.55 | 7708.15 | 3.21367 | 1.03787E-09 | 1779.3 | 7853.28 | 4.41369 |
| | 0.000162766 | 682.575 | 268.2 | -2.54502 | 0.00005581 | 1309.3 | 514.225 | -2.54616 |
| | 0.0042116 | 1018.57 | 471.167 | -2.1618 | | | | |
| | | | | | 9.90873E-05 | 2916.85 | 1067.6 | -2.73216 |
| | | | | | 1.29886E-05 | 2203 | 633.3 | -3.4786 |
| -2.1136 | 0.00142965 | 5388.75 | 2077.28 | -2.59414 | | | | |
| | 0.0070985 | 2194.15 | 1029.3 | -2.13169 | | | | |
| | 3.34348E-06 | 1341.47 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 1.12452E-08 | 3043 | 991.975 | -3.06762 |
| | | | | | 0.00189242 | 1843.73 | 740.1 | -2.49118 |
| | 0.000060389 | 2311.93 | 5596.25 | 2.42059 | 1.41329E-07 | 2199.5 | 4447.9 | 2.02223 |
| | 5.44156E-06 | 1178.48 | 422.533 | -2.78907 | | | | |
| | | | | | 6.19975E-05 | 1332.88 | 510.45 | -2.61118 |
| | | | | | 1.63485E-05 | 2118.03 | 833.675 | -2.54059 |
| | 0.000402964 | 526.875 | 209.8 | -2.51132 | 0.000735294 | 1022.33 | 423.967 | -2.41133 |
| | | | | | 0.000273538 | #DIV/0! | 2410.23 | #DIV/0! |
| | | | | | 2.26008E-05 | 1823.95 | 4151.35 | 2.27602 |
| | | | | | 1.03754E-08 | 1287.63 | 6140.55 | 4.76887 |
| | | | | | 0.00346231 | #DIV/0! | 1132.7 | #DIV/0! |
| | | | | | 1.03954E-07 | 1179.33 | 4115.75 | 3.4899 |
| | | | | | 1.13419E-07 | 3522.45 | 12923.1 | 3.66877 |
| | | | | | 1.66731E-06 | 3292.27 | 1449.38 | -2.27151 |
| | | | | | 0.0131122 | #DIV/0! | 1028.6 | #DIV/0! |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.0123776 | #DIV/0! | 1182.83 | #DIV/0! |
| 2.05598 | 1.62247E-05 | 1167.38 | 3517.58 | 3.01323 | 0.000412326 | #DIV/0! | 1188.83 | #DIV/0! |
| | | | | | 1.09338E-07 | #DIV/0! | 4229.68 | #DIV/0! |
| | | | | | 3.92573E-15 | 25242.7 | 68656.5 | 2.71986 |
| | | | | | 4.12738E-17 | 6704.63 | 20976.8 | 3.1287 |
| | 0.000328387 | 1563.33 | 718.867 | -2.17471 | 0.00143931 | 2322.28 | 988.6 | -2.34905 |
| | | | | | 1.17587E-05 | 14799.6 | 31607.9 | 2.13573 |
| | | | | | 0.000629324 | 1119.58 | 513.5 | -2.18028 |
| | | | | | 1.63553E-06 | 1008.58 | 2417.35 | 2.3968 |
| | | | | | 5.55458E-11 | #DIV/0! | 7028.28 | #DIV/0! |
| | | | | | 9.28687E-05 | 1128.93 | 300.2 | -3.76058 |
| | 8.62973E-06 | 1649.65 | 654.25 | -2.52144 | 2.91767E-08 | 3113.13 | 848.75 | -3.66789 |
| | 2.19723E-05 | 506.55 | 192.833 | -2.62688 | 8.28775E-09 | 1254.28 | 323.1 | -3.882 |
| | | | | | 9.32582E-08 | 2770.6 | 9783.63 | 3.53123 |
| | | | | | 3.61759E-06 | 1019.83 | 5923.55 | 5.8084 |
| | | | | | 9.5792E-15 | 6623.83 | 54845.8 | 8.28008 |
| | | | | | 6.73498E-08 | #DIV/0! | 1676.35 | #DIV/0! |
| 4.6898 | 4.96425E-07 | 873.8 | 6000.3 | 6.8669 | 7.17562E-07 | 1380.7 | 7315.4 | 5.29833 |
| 6.81304 | 6.8947E-08 | 814.725 | 8967.2 | 11.0064 | 2.42833E-06 | 1686.6 | 10826.3 | 6.41902 |
| #DIV/0! | 0.000251776 | #DIV/0! | 2692.17 | #DIV/0! | 2.92845E-07 | #DIV/0! | 3514.03 | #DIV/0! |
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| | | | | | 4.78302E-07 | 880.1 | #DIV/0! | #DIV/0! |
| | | | | | 0.010348 | 1168.97 | 179.7 | -6.5051 |
| | 1.14099E-06 | 5538.88 | 13546.3 | 2.44568 | 9.62095E-12 | 2342.4 | 9475.03 | 4.04501 |
| | 2.04387E-05 | 11786 | 26209.2 | 2.22376 | 1.79245E-13 | 3400.08 | 19934.6 | 5.86297 |
| | 3.49595E-07 | 1291.1 | 482.95 | -2.67336 | | | | |
| | | | | | 0.0108202 | 1125.03 | 313.033 | -3.59395 |
| | | | | | 0.00419605 | 1383.4 | 612.4 | -2.25898 |
| | | | | | 0.0170829 | 1368.47 | #DIV/0! | #DIV/0! |
| | 9.65478E-13 | 10765.4 | 34115.1 | 3.16896 | 1.01717E-17 | 4390.57 | 21623.5 | 4.92499 |
| | | | | | 7.22102E-11 | 11831.3 | 57244 | 4.83834 |
| | 6.84166E-06 | 25341.1 | 62443.5 | 2.46412 | 3.21207E-12 | 8797.03 | 45308.7 | 5.15045 |
| | | | | | | | | |
| | 1.81761E-08 | 7896.33 | 25826.7 | 3.27072 | 2.44489E-10 | 3763.88 | 13907.1 | 3.6949 |
| | 8.34293E-06 | 18062 | 45528.5 | 2.52068 | 1.01038E-10 | 7661.68 | 31174.4 | 4.06888 |
| | | | | | 6.87625E-08 | 1904.25 | 4908.65 | 2.57773 |
| | | | | | 0.000365104 | #DIV/0! | 2387.68 | #DIV/0! |
| | 2.87212E-05 | 2585.03 | 6683.6 | 2.58551 | 0.000303696 | 1505.65 | 3478 | 2.30997 |
| | 7.95874E-07 | 6235.9 | 13395.7 | 2.14815 | 1.70841E-08 | 3263.05 | 8248.1 | 2.52773 |
| | | | | | 0.00013773 | 3179.8 | 486.475 | -6.53641 |
| | 0.00125663 | 798.567 | 191.15 | -4.1777 | 0.000177611 | 2092.65 | 445.867 | -4.69344 |
| | 0.0152784 | 995.267 | #DIV/0! | #DIV/0! | 0.000248585 | 2723.95 | 611.9 | -4.45163 |
| | | | | | 0.000666697 | 1276.85 | 485 | -2.63268 |
| | 5.75847E-05 | 2806.08 | 5738 | 2.04485 | | | | |
| | | | | | 0.00159424 | 2258.63 | 679.9 | -3.322 |
| | | | | | 0.00401652 | 2666.53 | 954.75 | -2.79291 |
| | | | | | 0.0161567 | 1334.83 | #DIV/0! | #DIV/0! |
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| | | | | | 0.00814219 | 907.433 | 382.55 | -2.37206 |
| | | | | | 2.65794E-06 | 1686.43 | 525.6 | -3.20857 |
| | | | | | 0.00134846 | 1165.68 | 391.2 | -2.97974 |
| | 5.83431E-05 | 1181.9 | #DIV/0! | #DIV/0! | 4.68445E-07 | 2295.13 | 735.3 | -3.12136 |
| | | | | | 1.35444E-05 | 1969.1 | 7333.45 | 3.72426 |
| | 0.000057379 | 5346.43 | 2515.93 | -2.12503 | 6.75666E-05 | 9847.2 | 4213.25 | -2.3372 |
| -2.8931 | | | | | | | | |
| -2.5302 | | | | | | | | |
| | | | | | 0.00108855 | 1763.37 | #DIV/0! | #DIV/0! |
| | 0.00257436 | #DIV/0! | 1472.3 | #DIV/0! | | | | |
| #DIV/0! | | | | | | | | |
| | 0.00306906 | 804.967 | 392.2 | -2.05244 | | | | |
| 3.51976 | 1.03015E-07 | 1651.45 | 10575 | 6.40345 | 7.14702E-11 | 964.333 | 10426.2 | 10.8118 |
| 2.77753 | 2.29978E-07 | 1379.48 | 7205.5 | 5.22336 | 1.28561E-09 | #DIV/0! | 6183.73 | #DIV/0! |
| | 0.00296463 | 1568.3 | 763.975 | -2.05282 | | | | |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 0.00424854 | 13629.7 | 5778.03 | -2.35888 | | | | |
| | 2.58483E-09 | 3271.65 | 1087.18 | -3.00931 | 3.95855E-10 | 5246.78 | 1727.6 | -3.03703 |
| | 2.29396E-05 | 1536.78 | #DIV/0! | #DIV/0! | 0.00022365 | 2088.7 | 689.8 | -3.02798 |
| | 1.0158E-06 | 2447.53 | 1100.4 | -2.22421 | | | | |
| 2.01419 | | | | | 4.30899E-07 | 1439.8 | 3442.5 | 2.39096 |
| | | | | | 6.17516E-06 | 1700.05 | 4487.63 | 2.6397 |
| | | | | | 9.5359E-06 | #DIV/0! | 1891.78 | #DIV/0! |
| | | | | | 5.74493E-06 | 3792.25 | 628.925 | -6.02973 |
| | 0.0128299 | 28015.3 | 58553.8 | 2.09007 | | | | |
| | 0.00937566 | 11115 | 28564.7 | 2.56992 | | | | |
| 2.2149 | 0.000188111 | 1987.65 | 6677.15 | 3.35932 | | | | |
| | 0.00953402 | 1602.83 | 3894.03 | 2.42948 | 2.61553E-05 | 1721.4 | 4942.33 | 2.87111 |
| | | | | | 3.43603E-07 | #DIV/0! | 2054.88 | #DIV/0! |
| | | | | | 0.0105823 | 8250.48 | 3693.28 | -2.23392 |
| | 0.00038745 | 2264.2 | 11208.9 | 4.95047 | 0.000557227 | 2471.27 | 10480.2 | 4.24082 |
| | 0.00412818 | 997.65 | 414.425 | -2.40731 | | | | |
| | | | | | 0.00277414 | 1069.67 | 233.25 | -4.58592 |
| | | | | | 0.0225452 | 1587.53 | 351.8 | -4.51258 |
| | | | | | 0.00193767 | 2060.88 | 629.833 | -3.2721 |
| 3.07336 | | | | | | | | |
| | | | | | 0.0129428 | 2203.03 | 905.6 | -2.43267 |
| 3.43454 | 1.5704E-11 | 5908.33 | 91650.3 | 15.5121 | 4.60401E-14 | 20661.7 | 92468.7 | 4.47537 |
| 2.32166 | 1.34303E-08 | 11624.2 | 102307 | 8.80122 | 2.34946E-13 | 11163.5 | 138946 | 12.4464 |
| | 1.01762E-07 | 8137.58 | 94340.9 | 11.5932 | 2.30451E-12 | 29497.4 | 106851 | 3.6224 |
| | 8.73979E-07 | 18758 | 137954 | 7.35441 | 6.35858E-12 | 15495.1 | 195923 | 12.6442 |
| 2.42629 | 3.03139E-08 | 8628.13 | 75167.8 | 8.71194 | 1.50372E-13 | 6148.13 | 91139.6 | 14.824 |
| | 4.94828E-07 | 3227.08 | 1332.6 | -2.42164 | | | | |
| -2.4814 | | | | | | | | |
| #DIV/0! | | | | | | | | |
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| #DIV/0! | 0.000365543 | 1521.08 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.00219605 | 1469.73 | 581 | -2.52966 |
| | | | | | 0.0126584 | 1196.4 | 392.3 | -3.04971 |
| 5.47022 | 7.62627E-08 | #DIV/0! | 4788.8 | #DIV/0! | 5.96107E-06 | 1345.3 | 5893.83 | 4.38105 |
| 12.1686 | 2.08204E-12 | 603.7 | 8039.28 | 13.3167 | 5.31322E-12 | 812.3 | 8580.4 | 10.5631 |
| | | | | | 4.60792E-08 | 1731.23 | 5285.53 | 3.05304 |
| | 0.00602599 | 728.475 | 289.1 | -2.5198 | | | | |
| | | | | | 2.2617E-09 | 2110.75 | 4673.65 | 2.21421 |
| | | | | | 2.94431E-09 | 1335.47 | 4228.65 | 3.16642 |
| | | | | | 6.67328E-05 | 2843.07 | 1301.05 | -2.18521 |
| -2.4079 | | | | | | | | |
| | 0.000145391 | 2321.48 | 752.175 | -3.08635 | 0.000373993 | 3335.43 | 1208.5 | -2.75997 |
| | 0.00132601 | 968.95 | 479.575 | -2.02043 | | | | |
| | | | | | 9.31248E-05 | 1790.08 | 689.067 | -2.59783 |
| | 2.63351E-05 | 2102.73 | 4969.2 | 2.36322 | 1.31175E-14 | 1627.7 | 8114.03 | 4.98496 |
| | 0.000129583 | 2060.48 | 4441.18 | 2.15541 | 1.9545E-11 | 1404.88 | 7047.5 | 5.01646 |
| | | | | | 3.57112E-17 | #DIV/0! | 5456.55 | #DIV/0! |
| | 2.87089E-05 | 771.333 | 341.75 | -2.25701 | 3.84174E-07 | 1017.17 | 313.3 | -3.24662 |
| | 0.000892674 | 2525.6 | 5450.98 | 2.15829 | 4.36362E-09 | 1608.6 | 5504.15 | 3.4217 |
| | | | | | 0.0153959 | 1769.53 | #DIV/0! | #DIV/0! |
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| 2.63897 | | | | | | | | |
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| | | | | | 0.00037271 | 5289.7 | 1899.28 | -2.78512 |
| | | | | | 0.0162514 | 999.45 | 261.6 | -3.82053 |
| | | | | | 0.00154025 | 1684.03 | 450.8 | -3.73564 |
| | | | | | 4.23278E-05 | 3748.85 | 624.825 | -5.99984 |
| | 3.49447E-05 | 986.35 | 257.3 | -3.83346 | | | | |
| | | | | | 2.72317E-06 | 4487.88 | 10750.4 | 2.39543 |
| | | | | | 8.29283E-09 | #DIV/0! | 2148.7 | #DIV/0! |
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| | | | | | 0.000925306 | 993.133 | 432.8 | -2.29467 |
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| 2.84318 | 1.04053E-06 | 2719.08 | 12823.6 | 4.71617 | 6.07593E-12 | #DIV/0! | 10005.4 | #DIV/0! |
| -3.6648 | 1.21649E-10 | 14270.2 | 2749.98 | -5.18919 | 4.32798E-10 | 6275.3 | 1473.3 | -4.25935 |
| -2.006 | 1.54617E-08 | 1678.6 | 504.75 | -3.32561 | | | | |
| 11.2618 | 1.17901E-10 | 791.75 | 11751.5 | 14.8424 | 6.01974E-10 | 1712.6 | 13219 | 7.71867 |
| 10.5473 | 1.42119E-11 | 1628.6 | 22565.8 | 13.8559 | 3.49963E-10 | 2878.33 | 26437.1 | 9.18485 |
| | | | | | 2.16252E-08 | 3314.05 | 1152.38 | -2.87584 |
| | | | | | 3.70459E-09 | 4168.35 | 1549.85 | -2.68952 |
| | 0.00036739 | 926.55 | 448.1 | -2.06773 | 0.00282259 | 827.7 | 326.4 | -2.53585 |
| -2.8316 | | | | | | | | |
| -2.4966 | | | | | | | | |
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| | 1.07022E-08 | 2335.95 | 1161.5 | -2.01115 | | | | |
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| | | | | | 9.12316E-05 | 1096 | 308.15 | -3.55671 |
| | | | | | 0.000457092 | 5179.13 | 1848.1 | -2.80241 |
| | | | | | 0.000222269 | 1789.68 | 854.1 | -2.09539 |
| | | | | | 6.31601E-07 | 1419.73 | 489.45 | -2.90067 |
| -2.1018 | 9.29098E-05 | 928.4 | 306.6 | -3.02805 | 8.03802E-05 | 1148.5 | 318.2 | -3.60937 |
| | | | | | 5.71324E-06 | 1102.63 | 374.167 | -2.9469 |
| | | | | | 0.00770505 | 1297.3 | 490.333 | -2.64575 |
| | | | | | 0.000020057 | 1136.8 | 366.9 | -3.09839 |
| | | | | | 0.000896062 | 2449.5 | 1179.78 | -2.07624 |
| -3.5948 | | | | | | | | |
| | | | | | 0.000960221 | 1761.6 | 458.7 | -3.84042 |
| | | | | | 0.000170419 | 2833.75 | 915.2 | -3.09632 |
| | | | | | 1.13108E-07 | 2439 | 5722.7 | 2.34633 |
| | | | | | 2.16312E-10 | 16506.3 | 45859.9 | 2.77832 |
| | 0.000155389 | 4253.55 | 10064.1 | 2.36605 | 1.5767E-10 | 1978 | 6485.05 | 3.27859 |
| | 1.25562E-06 | #DIV/0! | 1168.67 | #DIV/0! | | | | |
| | | | | | 0.00393661 | 1779.78 | 649.633 | -2.73966 |
| -6.0918 | 2.07293E-06 | 3960.25 | 673.525 | -5.87989 | | | | |
| -4.7551 | 2.45866E-05 | 3437.25 | 889.875 | -3.86262 | | | | |
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| #DIV/0! | | | | | | | | |
| | 4.23302E-05 | 842.225 | 357.467 | -2.35609 | 0.000602606 | 1345.5 | 650.067 | -2.06979 |
| | 1.64267E-05 | 1652 | #DIV/0! | #DIV/0! | | | | |
| | 1.66212E-07 | 1863.15 | 731.567 | -2.54679 | | | | |
| | 0.0107157 | 14006.6 | 6520.7 | -2.14802 | | | | |
| | | | | | 1.54049E-05 | 1809.63 | 785.85 | -2.30276 |
| | | | | | 0.0052448 | 1330.95 | #DIV/0! | #DIV/0! |
| -3.4563 | | | | | | | | |
| | 0.00732032 | 567.7 | 214.1 | -2.65156 | 0.000292256 | 1408.78 | 443.3 | -3.17793 |
| | | | | | 0.000352876 | 1435.03 | 378.8 | -3.78837 |
| | 0.00613434 | #DIV/0! | 1567.33 | #DIV/0! | 0.00136648 | #DIV/0! | 1641.5 | #DIV/0! |
| -3.2903 | 2.45415E-05 | 1451.13 | 388.025 | -3.73977 | 5.51057E-05 | 1580.53 | 442.6 | -3.571 |
| | 2.40923E-05 | 602.8 | 265.7 | -2.26872 | | | | |
| | 2.44029E-05 | 788.9 | #DIV/0! | #DIV/0! | 4.74305E-06 | 1132.1 | 233 | -4.8588 |
| | 0.00033445 | 954.325 | 380.45 | -2.50841 | 6.41807E-07 | 2263.4 | 446.5 | -5.0692 |
| | | | | | 9.27083E-05 | 9913.33 | 4268.5 | -2.32244 |
| 4.16874 | 0.000161332 | 1154.3 | 3087.7 | 2.67495 | 5.42253E-07 | 846.9 | 1801.3 | 2.12693 |
| 2.26085 | 0.000762275 | 2650.2 | 5615.85 | 2.11903 | | | | |
| | | | | | 0.0043925 | 1228.95 | 297.05 | -4.13718 |
| | | | | | 9.48976E-05 | 4094.23 | 1021.55 | -4.00786 |
| | | | | | 0.00814245 | 2025.03 | 807 | -2.50932 |
| | 0.00021726 | 638.525 | 246 | -2.59563 | 0.0185968 | 932.6 | 435.067 | -2.14358 |
| | | | | | | | | |
| 2.20421 | 1.15792E-09 | 5787.8 | 29435.2 | 5.08573 | | | | |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 3.25698E-13 | 3652.63 | 10582.5 | 2.89724 |
| | | | | | 1.13945E-14 | 2294.88 | 8873.05 | 3.86646 |
| -3.8518 | 4.41515E-08 | 1694.83 | 388.567 | -4.36174 | 5.4012E-08 | 2261.83 | 553.35 | -4.08751 |
| | 9.15545E-05 | 1265.53 | 341.05 | -3.71067 | 0.00489275 | 1647.68 | 712.15 | -2.31366 |
| | 0.00136222 | 1840.43 | #DIV/0! | #DIV/0! | | | | |
| | 0.000582057 | 1139.05 | 382.9 | -2.9748 | 0.00397025 | 1676.3 | 599.767 | -2.79492 |
| | | | | | 1.58497E-09 | 3862.58 | 1339.83 | -2.88288 |
| | | | | | 1.80855E-11 | 4605.28 | 10401.3 | 2.25856 |
| | 0.000192687 | #DIV/0! | 1319.73 | #DIV/0! | | | | |
| 2.57791 | 0.000283689 | #DIV/0! | 2308.07 | #DIV/0! | | | | |
| | 0.000861847 | 761.225 | 282 | -2.69938 | 7.27364E-05 | 1648.35 | 540.767 | -3.04817 |
| | 0.000495586 | 1943.33 | 964.2 | -2.01548 | | | | |
| 2.07331 | 2.8963E-10 | 5351.95 | 15864.1 | 2.96417 | 2.60079E-13 | 3146.53 | 11628.4 | 3.69563 |
| | 3.60406E-05 | 1852.23 | 777.767 | -2.38147 | | | | |
| | | | | | 2.28055E-09 | 2412.1 | 5102.2 | 2.11525 |
| | | | | | 0.000587578 | #DIV/0! | 1076.55 | #DIV/0! |
| | | | | | 3.97848E-08 | 1717.35 | 4272.63 | 2.48792 |
| | | | | | 5.54643E-06 | 1499.9 | 634.325 | -2.36456 |
| -2.0918 | 0.00198454 | 3423.95 | 1326.3 | -2.58158 | 0.00276821 | 3790.63 | 1663.73 | -2.2784 |
| | | | | | 0.00225031 | 1237.53 | 348.4 | -3.55205 |
| | | | | | 2.28151E-08 | 1873.53 | 799.35 | -2.34381 |
| | | | | | 1.34223E-08 | 12522.2 | 29622.5 | 2.36559 |
| -2.484 | 2.19009E-06 | 2160.28 | 983.8 | -2.19585 | | | | |
| | 0.00321696 | 1411.03 | 664.65 | -2.12296 | | | | |
| | 0.00778871 | 694.4 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 6.94947E-10 | 7305.08 | 20301.2 | 2.77905 |
| | | | | | 1.59704E-10 | 1768.58 | 5824.98 | 3.2936 |
| | | | | | 1.30764E-05 | 1185.53 | 497.275 | -2.38404 |
| | | | | | 8.99744E-09 | 5853.1 | 12124.8 | 2.07152 |
| | | | | | 0.00219779 | 894.867 | 1940.73 | 2.16873 |
| | | | | | 4.57845E-16 | 4934.68 | 15557.9 | 3.15276 |
| | 1.73564E-07 | 15112.9 | 32615.7 | 2.15813 | 3.04711E-08 | 8178.2 | 18217 | 2.22751 |
| | 8.26136E-08 | #DIV/0! | 1771.77 | #DIV/0! | | | | |
| | 3.35415E-06 | 847.5 | 191.1 | -4.43485 | | | | |
| | | | | | 0.00132803 | 1433.57 | 635.1 | -2.25723 |
| | | | | | 3.55037E-05 | 3346.28 | 7324.68 | 2.1889 |
| | | | | | 4.84097E-10 | 2557.65 | 6861.9 | 2.68289 |
| | | | | | 3.37702E-07 | #DIV/0! | 1553.38 | #DIV/0! |
| 12.457 | 3.37667E-18 | 1948.33 | 45241.9 | 23.2209 | 7.70952E-22 | 1902.37 | 93761.4 | 49.2867 |
| | 0.00110089 | 1900.63 | 921.6 | -2.06231 | | | | |
| 4.02999 | 1.85779E-06 | #DIV/0! | 3986.55 | #DIV/0! | 0.00107554 | #DIV/0! | 2453.05 | #DIV/0! |
| | 0.00028305 | 679.967 | #DIV/0! | #DIV/0! | 0.00123177 | 801 | #DIV/0! | #DIV/0! |
| 2.17182 | 3.74365E-08 | 1813.5 | 6358.6 | 3.50626 | 8.10365E-05 | 1255.45 | 2633.68 | 2.09779 |
| | | | | | 7.65854E-07 | 14284.6 | 30140.1 | 2.10998 |
| | | | | | 0.000835584 | 1364.38 | 598.05 | -2.28137 |
| | | | | | 4.48688E-07 | 11502 | 23158.4 | 2.01342 |
| | 0.000386204 | 1079.15 | 450.325 | -2.39638 | | | | |
| | 0.000843005 | 919.65 | 357.225 | -2.57443 | 0.00225102 | 1341.6 | 454.425 | -2.9523 |
| -2.2233 | 2.91562E-06 | 4848.18 | 2028.78 | -2.38971 | 0.00080462 | 2001.77 | 683.725 | -2.92774 |
| | | | | | 3.06115E-05 | 1278.33 | 418.567 | -3.05407 |
| | | | | | 0.00893982 | 1240.75 | 270.3 | -4.59027 |
| | 0.00567297 | 2079.78 | 872.375 | -2.38404 | 0.000667642 | 4623.68 | 1347.5 | -3.4313 |
| | | | | | 0.000791303 | 804.667 | #DIV/0! | #DIV/0! |
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| | | | | | 4.06945E-06 | 833 | 241.767 | -3.44547 |
| | 0.0000176 | 1295.38 | 597.367 | -2.16848 | 2.46367E-08 | 1525.87 | 605 | -2.52209 |
| -2.9869 | 6.11156E-06 | 1066.63 | 303 | -3.52021 | | | | |
| | | | | | 0.00110506 | 2190.35 | 454.325 | -4.82111 |
| | | | | | 0.0020861 | 982.067 | 394.5 | -2.4894 |

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|---------|-------------|---------|---------|-------------|---------|---------|----------|
| | | | | 2.47996E-13 | 5849.45 | 13662.7 | 2.33573 |
| | | | | 1.95784E-09 | 3832.15 | 9100.55 | 2.37479 |
| | | | | 9.40716E-10 | 1826.7 | 4379.28 | 2.39737 |
| | | | | 0.0202571 | #DIV/0! | 2733.93 | #DIV/0! |
| | | | | 8.00505E-08 | 2289.53 | 5120.53 | 2.2365 |
| #DIV/0! | | | | 8.67421E-06 | 2525.23 | #DIV/0! | #DIV/0! |
| | | | | 5.33331E-08 | 2990.7 | 9048.33 | 3.02549 |
| | | | | 2.57276E-12 | 2367.05 | 9495.83 | 4.01167 |
| | | | | 1.09481E-12 | 4592.18 | 10363.7 | 2.25681 |
| | | | | 2.78406E-11 | 9724.58 | 28508.5 | 2.93159 |
| | | | | 3.36262E-16 | 7757.88 | 22923.1 | 2.95482 |
| | | | | 3.69084E-17 | 15957.1 | 51752.3 | 3.24322 |
| | | | | 8.58124E-05 | 2390.05 | 839.9 | -2.84564 |
| | | | | 0.00499168 | 3616.05 | 812.475 | -4.45066 |
| | | | | 0.00967642 | #DIV/0! | 1568.3 | #DIV/0! |
| | | | | 0.000284228 | 1314.33 | 456.55 | -2.87882 |
| | | | | 7.97189E-06 | 747.067 | #DIV/0! | #DIV/0! |
| | | | | 0.0173212 | 1484.73 | 470.5 | -3.15563 |
| | | | | 5.90819E-08 | #DIV/0! | 11367.6 | #DIV/0! |
| 5.7539 | 8.08302E-05 | #DIV/0! | 3328.73 | #DIV/0! | | | |
| 2.47743 | | | | 3.44386E-05 | 813.4 | 393.1 | -2.06919 |
| | | | | 5.05034E-11 | 3225.43 | 1142.73 | -2.82257 |
| -2.0387 | 8.5829E-08 | 1734.88 | 766.425 | -2.26359 | | | |
| -2.7739 | 1.51332E-07 | 2135.28 | 766.75 | -2.78484 | | | |
| | | | | 3.95256E-06 | 3326.33 | 1274.9 | -2.60909 |
| | | | | 8.44565E-11 | 59787.5 | 199201 | 3.33182 |
| | | | | 8.09558E-13 | 15422.5 | 74616 | 4.83814 |
| 4.92452 | 0.000199391 | 38933.5 | 81145.9 | 2.08422 | | | |
| | 4.62726E-13 | 1655.95 | 19693.9 | 11.8928 | | | |
| | | | | 9.43125E-12 | 1490.97 | 9499.95 | 6.37167 |
| | | | | 0.00874146 | 1341.88 | 286.6 | -4.68205 |
| | | | | 0.00322254 | 1330.77 | 332.8 | -3.9987 |
| | | | | 0.00788127 | 2797.45 | 688.167 | -4.06508 |
| | | | | 0.000428265 | #DIV/0! | 5106.23 | #DIV/0! |
| | | | | 1.33087E-07 | 5026.3 | 18231.9 | 3.6273 |
| -2.1245 | | | | 5.08956E-05 | 2719.5 | 636.05 | -4.27561 |
| #DIV/0! | 0.00118121 | 1025.98 | 274.05 | -3.74375 | | | |
| | 7.56266E-06 | 1410.05 | 375.9 | -3.75113 | | | |
| | 0.000579616 | 550.667 | #DIV/0! | #DIV/0! | | | |
| | 0.00133716 | 543.4 | #DIV/0! | #DIV/0! | | | |
| | | | | 0.00482561 | 1329.7 | 307.4 | -4.32563 |
| | | | | 0.00122511 | 1349.75 | 420.1 | -3.21293 |
| | 5.18934E-05 | 533.3 | 157.5 | -3.38603 | | | |
| | | | | 1.43867E-05 | 3985.9 | 9011.43 | 2.26083 |
| | | | | 9.19773E-08 | 2078.08 | 7003.1 | 3.36999 |
| | | | | 1.09212E-10 | 7925.08 | 30359 | 3.83075 |
| | 8.60927E-06 | 885.3 | 312.9 | -2.82934 | | | |
| | | | | 0.000020396 | 965.225 | 406.2 | -2.37623 |
| | | | | 4.29447E-07 | 1530.77 | 670.225 | -2.28396 |
| | 4.65782E-14 | 6512.7 | 1744.93 | -3.73237 | | | |
| | 4.19164E-14 | 8131.03 | 2122.8 | -3.83033 | | | |
| | | | | 1.52575E-14 | 4205.63 | 1121.78 | -3.74908 |
| | | | | 8.37853E-14 | 4564.38 | 1347.45 | -3.38742 |
| | | | | 2.10483E-10 | 12405.2 | 4959.1 | -2.50149 |
| | | | | 3.29681E-07 | 6390.75 | 2675.23 | -2.38886 |
| | | | | 7.73654E-10 | 8103.08 | 3759.38 | -2.15543 |
| | | | | 1.71621E-06 | 3796.53 | 13238 | 3.48686 |
| | | | | 0.00844347 | #DIV/0! | 747.4 | #DIV/0! |
| -2.5371 | | | | 0.00424982 | 1448.73 | 595.4 | -2.43321 |
| | | | | 0.00563819 | 1539.83 | 386.7 | -3.98196 |
| | 6.99695E-08 | #DIV/0! | 536.667 | #DIV/0! | | | |
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| | | | | 2.7832E-10 | 4422.13 | 13073.9 | 2.95647 |
| | 1.99022E-10 | 18322.9 | 49395.4 | 2.69583 | | | |
| | 2.08661E-12 | 5665.65 | 20859.9 | 3.68181 | | | |
| | | | | 8.05878E-19 | 1971.6 | 16011.3 | 8.12097 |

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|-------------|-------------|---------|----------|-------------|-------------|---------|----------|
| | | | | 0.00559584 | 1431.53 | 544.2 | -2.63051 |
| 0.0123235 | 507.65 | #DIV/0! | #DIV/0! | | | | |
| | | | | 0.000628608 | 1964.95 | 587.375 | -3.34531 |
| | | | | 0.00168385 | 2679.65 | 1145.38 | -2.33954 |
| | | | | 6.92043E-06 | 1511.25 | 3401.28 | 2.25064 |
| | | | | 6.23716E-06 | 2059.65 | 5074.38 | 2.46371 |
| | | | | 8.21498E-09 | 9102.28 | 22595.8 | 2.48243 |
| 3.64614E-07 | 9260.83 | 21196.3 | 2.28881 | 1.37285E-11 | 7827.18 | 29994.8 | 3.83213 |
| 3.47901E-09 | 3437.4 | 8030.93 | 2.33634 | 7.78674E-15 | 2301.53 | 9358 | 4.066 |
| | | | | 8.75453E-06 | 2247.35 | 1059.3 | -2.12154 |
| 0.00227926 | 1458.18 | 439.967 | -3.31429 | | | | |
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| | | | | 0.000156085 | #DIV/0! | 806.3 | #DIV/0! |
| | | | | 8.09501E-07 | 2531.53 | 652.425 | -3.88018 |
| 0.000045404 | 5944 | 12378.1 | 2.08245 | 2.03715E-06 | 3632.88 | 8248.85 | 2.27061 |
| 8.65115E-07 | 9218.53 | 3763.28 | -2.4496 | 4.61324E-06 | 15795.6 | 7113.55 | -2.22049 |
| 0.000333552 | 13937.6 | 29928.5 | 2.14733 | 1.05109E-08 | 4502.18 | 20645.4 | 4.58564 |
| | | | | 0.00092558 | 2143.1 | 4517.13 | 2.10775 |
| 1.87073E-07 | 851.4 | 281.2 | -3.02774 | 7.67109E-07 | 1452.28 | 497.225 | -2.92076 |
| 4.87151E-07 | 314.9 | 3496.93 | 11.1049 | 0.0101852 | 1154.4 | 2718.2 | 2.35464 |
| 3.72665E-05 | 753.05 | 335.925 | -2.24172 | 6.10955E-05 | 1395.13 | 650.2 | -2.14569 |
| | | | | 3.11242E-06 | 2609.85 | 1223.83 | -2.13254 |
| | | | | 0.000430187 | 1454.6 | 506.9 | -2.8696 |
| | | | | 0.00053323 | 2971.1 | 863.725 | -3.43987 |
| | | | | 7.80007E-06 | 2145.5 | 6125.68 | 2.85513 |
| 1.56641E-07 | 943.5 | 400.1 | -2.35816 | 6.00634E-09 | 1723.38 | 647.8 | -2.66035 |
| #DIV/0! | 1.42453E-06 | 1364.6 | #DIV/0! | #DIV/0! | 5.33057E-05 | 1942.57 | 874.067 |
| | | | | 0.00244772 | 2771.43 | 1248.43 | -2.21994 |
| | | | | 0.000596058 | 2009.8 | 361.833 | -5.55449 |
| | | | | 0.000415984 | 1738.43 | 442.233 | -3.93101 |
| | | | | 0.00339892 | 1728.15 | 476.6 | -3.626 |
| | | | | 0.0230354 | 1029.67 | #DIV/0! | #DIV/0! |
| | | | | 5.50656E-05 | 2229.23 | 4619.48 | 2.07223 |
| 17.0212 | 3.34941E-10 | 1593.55 | 33412.3 | 20.9672 | | | |
| | 7.39503E-09 | 14455.7 | 36868.5 | 2.55045 | | | |
| | | | | 2.62576E-12 | 9393.2 | 34370.1 | 3.65904 |
| | | | | 1.82038E-05 | 561.95 | 204.65 | -2.74591 |
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| -4.0139 | 1.85581E-05 | 1048.38 | #DIV/0! | #DIV/0! | | | |
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| | | | | 0.00117023 | 3758.05 | 8822.08 | 2.34751 |
| | | | | 5.22886E-14 | 4717.5 | 11117 | 2.35653 |
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| | | | | 1.34405E-11 | 1563.2 | 3886.4 | 2.48618 |
| | | | | 4.88476E-15 | 2331.88 | 8052.48 | 3.45322 |
| | | | | 1.14667E-06 | 2611.18 | 859.367 | -3.03849 |
| | | | | 0.0159116 | 1083.55 | 369.35 | -2.93367 |
| | | | | 4.55235E-08 | 9741.15 | 19950.8 | 2.04809 |
| | | | | 3.32523E-17 | 20338 | 107384 | 5.27995 |
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| | | | | 8.34388E-05 | 1797.23 | 897.55 | -2.00237 |
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| | | | | 2.60877E-08 | #DIV/0! | 4438.13 | #DIV/0! |
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| | | | | 0.0135067 | 1106.8 | 322.325 | -3.4338 |
| | | | | 0.00873918 | 766.633 | 182.5 | -4.20073 |
| | | | | 7.33729E-07 | 1714.6 | 8387.83 | 4.892 |
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| | | | | | 0.0127274 | #DIV/0! | 2226.57 | #DIV/0! |
| | 0.00014596 | 5914.45 | 2323.83 | -2.54514 | 2.11495E-06 | 11737.5 | 3439.28 | -3.41278 |
| | | | | | 0.0101118 | 1614.2 | 756.625 | -2.13342 |
| | | | | | 0.00156815 | 7308.65 | 3448 | -2.11968 |
| | | | | | 0.0031226 | 943.675 | 460.775 | -2.04802 |
| | 0.00815857 | 508.733 | 166.4 | -3.05729 | 7.45997E-07 | 769.8 | 217.4 | -3.54094 |
| | 1.31838E-06 | 3643.03 | 8258 | 2.2668 | 6.54019E-12 | 2286.4 | 10706.2 | 4.68256 |
| -2.4302 | 3.74032E-05 | 16243.9 | 6262.23 | -2.59394 | | | | |
| -3.059 | | | | | | | | |
| -2.5495 | | | | | | | | |
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| | | | | | 6.87564E-12 | 6523.45 | 14937.7 | 2.28984 |
| | | | | | 0.00128434 | 1978.4 | 956.45 | -2.06848 |
| | | | | | 1.00878E-08 | 5172.83 | 11552.1 | 2.23322 |
| | | | | | 2.74316E-12 | 14011 | 37183.4 | 2.65387 |
| | 3.34568E-06 | 5439.43 | 12268 | 2.25538 | 2.53288E-13 | 2850.9 | 13785.6 | 4.83551 |
| | 4.55828E-08 | 12191.4 | 24538.4 | 2.01276 | 5.22828E-17 | 8654.43 | 40742.2 | 4.70767 |
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| | | | | | 3.08186E-05 | 1963.33 | 5296.13 | 2.69753 |
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| | | | | | 3.26325E-06 | 830.167 | 214.2 | -3.87566 |
| -2.2818 | | | | | | | | |
| | 0.000140412 | 877.325 | 336.5 | -2.60721 | 4.25822E-07 | 1914.23 | 536.25 | -3.56965 |
| | | | | | 0.00774168 | 4284.8 | 8841.63 | 2.06349 |
| | | | | | 0.0149907 | 7243.55 | 16156.8 | 2.23051 |
| -2.3374 | | | | | | | | |
| | | | | | 1.72325E-10 | 14476.1 | 31381 | 2.16777 |
| | | | | | 6.28515E-10 | 9229.3 | 23651.2 | 2.56262 |
| | | | | | 1.70107E-10 | 7138.2 | 24583.7 | 3.44396 |
| | | | | | 1.77179E-09 | 1695.05 | 4591.28 | 2.70864 |
| | | | | | 6.98531E-07 | 1879.75 | 677.175 | -2.77587 |
| | 4.58521E-05 | 2332.98 | 4763.95 | 2.04201 | 3.55105E-10 | #DIV/0! | 3778.03 | #DIV/0! |
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| #DIV/0! | | | | | | | | |
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| | 0.0152393 | 817 | 382.933 | -2.13353 | | | | |
| | | | | | 4.42246E-07 | 3460 | 7496.15 | 2.16652 |
| | 4.36932E-08 | 20226.1 | 40763.8 | 2.01541 | 6.7536E-13 | 10028.6 | 31219.4 | 3.11303 |
| | 7.27781E-09 | 12974.7 | 34810.6 | 2.68296 | 2.67502E-15 | 5744.2 | 26388.3 | 4.5939 |
| | | | | | 5.97858E-13 | 3195.4 | 11158.8 | 3.49214 |
| | 2.14482E-06 | 5804.53 | 12685.2 | 2.18539 | 5.93268E-13 | 1983.05 | 7825.38 | 3.94613 |
| | | | | | 2.86045E-05 | #DIV/0! | 4417.53 | #DIV/0! |
| | | | | | 4.3108E-12 | 7599.95 | 19814.4 | 2.60718 |
| | | | | | 7.23134E-06 | 1180.1 | 349.767 | -3.37396 |
| | | | | | 7.84559E-11 | 5267.55 | 11475 | 2.17842 |
| | | | | | 5.12018E-11 | 5307.15 | 12280.2 | 2.3139 |
| | | | | | 3.07271E-15 | 4551 | 13490.7 | 2.96433 |
| | 0.000242425 | 1280.95 | 499.675 | -2.56357 | 1.07394E-10 | 3435.58 | 653.4 | -5.258 |
| 3.21582 | 5.3478E-12 | 2279.1 | 14742.6 | 6.4686 | 2.78337E-13 | 3644 | 29672 | 8.14271 |
| | 1.44529E-07 | 1755.73 | 9026.48 | 5.14117 | | | | |
| -3.6288 | 0.000996702 | 17724.4 | 5494.63 | -3.22577 | | | | |
| | | | | | 2.17553E-07 | 1246.93 | 343.6 | -3.62903 |
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| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.000374864 | 2524.57 | 973.167 | -2.59418 |
| | | | | | 2.37787E-07 | 2070.38 | 889.975 | -2.32633 |
| | 0.00263442 | 843.225 | 416.575 | -2.02419 | 0.000334986 | 949.25 | 435.95 | -2.17743 |
| | 1.40041E-08 | 14397.7 | 36069.6 | 2.50523 | 8.53673E-14 | 7934.83 | 33644.7 | 4.24013 |
| | 1.02423E-08 | 10234.5 | 29051.4 | 2.83858 | 4.41133E-14 | 5325.83 | 25510.2 | 4.78989 |
| | 0.0112445 | 1488.8 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 1.65684E-06 | 2045.48 | 5357.6 | 2.61924 |
| | 0.00228923 | #DIV/0! | 2238.53 | #DIV/0! | | | | |
| | | | | | 0.0221444 | 1045.93 | 401.5 | -2.60506 |
| | | | | | 0.00334992 | 1140.2 | 529.25 | -2.15437 |
| | | | | | 4.81598E-05 | 1857.43 | 4110.03 | 2.21275 |
| | | | | | 1.07938E-07 | 5572.77 | 12333.5 | 2.21317 |
| -2.699 | 1.47037E-08 | 1686.9 | #DIV/0! | #DIV/0! | 8.81768E-12 | 2889.03 | #DIV/0! | #DIV/0! |
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| | | | | | 1.55746E-09 | 7882.68 | 2199 | -3.58466 |
| | 0.00038215 | 1461.25 | 586.4 | -2.4919 | | | | |
| | | | | | 0.00816388 | 1705.2 | 425.8 | -4.0047 |
| | | | | | 0.00740735 | #DIV/0! | 742.8 | #DIV/0! |
| | | | | | 6.08047E-05 | 1485.95 | 2980.5 | 2.00579 |
| 2.23202 | 5.87444E-07 | 3734.3 | 8884.7 | 2.37921 | 1.43069E-07 | 2547.27 | 6167.15 | 2.42109 |
| | | | | | 1.02403E-13 | 10687.6 | 21479.5 | 2.00976 |
| | | | | | 2.77077E-07 | 2733.83 | 5992.35 | 2.19193 |
| 2.4379 | 2.61828E-12 | 6721.55 | 23767.7 | 3.53604 | 2.25237E-14 | 3854.55 | 16313.4 | 4.23225 |
| | | | | | 0.00856315 | #DIV/0! | 1248.4 | #DIV/0! |
| | | | | | 6.24397E-09 | 1228.83 | 2875.43 | 2.33996 |
| | | | | | 0.00814308 | #DIV/0! | 1124.93 | #DIV/0! |
| | | | | | 0.000232157 | 2575.1 | 1109.87 | -2.32019 |
| | | | | | 1.55687E-06 | 2058.55 | 5888.9 | 2.8607 |
| | | | | | 3.66848E-12 | 4902.6 | 16781.2 | 3.42292 |
| -2.5798 | 1.32902E-08 | 5237.08 | 1987.63 | -2.63484 | | | | |
| | 0.00792175 | 730.975 | 306.8 | -2.38258 | 0.00716515 | 2128.23 | 647.5 | -3.28683 |
| | | | | | 0.00213188 | 1462.85 | 574.667 | -2.54556 |
| | | | | | 0.000139278 | 859.925 | 306.767 | -2.80319 |
| | | | | | 0.00119479 | #DIV/0! | 764.433 | #DIV/0! |
| | 2.11483E-07 | 1632.98 | 647.175 | -2.52324 | 3.61825E-11 | 2589.7 | 726.925 | -3.56254 |
| | | | | | 0.00271434 | 1192.23 | 422.4 | -2.82252 |
| | 2.42307E-06 | 886.025 | 379.933 | -2.33205 | 2.49162E-07 | 1788.9 | 522.025 | -3.42685 |
| | 0.00829083 | 578.1 | 260.825 | -2.21643 | 9.76579E-05 | 1357.2 | 370.767 | -3.66052 |
| | | | | | 1.58554E-05 | 1507.98 | 483.65 | -3.11791 |
| | | | | | 2.78668E-07 | 1863.37 | 8559.53 | 4.59358 |
| | | | | | 1.45672E-06 | 2664.63 | 754.625 | -3.53106 |
| | 0.00203691 | 2365.85 | 994.825 | -2.37816 | 0.000336266 | 3384.13 | 1215.03 | -2.78523 |
| | | | | | 9.92501E-05 | 1072.2 | #DIV/0! | #DIV/0! |
| | | | | | 0.0029292 | 946.65 | 352.05 | -2.68896 |
| | | | | | 3.80911E-05 | 3091.13 | 836.35 | -3.69597 |
| | | | | | 0.00111329 | 914.275 | #DIV/0! | #DIV/0! |
| | | | | | 0.00246925 | 811.55 | 278.85 | -2.91035 |
| 3.28598 | 5.33758E-07 | 5956.55 | 36873.1 | 6.19035 | 3.98937E-12 | 3492.9 | 30377 | 8.69678 |
| 2.32402 | 1.86575E-08 | 15174.1 | 78025.9 | 5.14206 | 5.56293E-15 | 5971.4 | 71803.9 | 12.0246 |
| | | | | | 0.00426838 | 5311.3 | 11289.9 | 2.12563 |
| | | | | | 0.0123293 | 4453.05 | 9638.93 | 2.16457 |
| | 0.000010713 | 1076.83 | 530.4 | -2.03021 | | | | |
| | | | | | 0.0173974 | #DIV/0! | 4317.33 | #DIV/0! |
| | | | | | 4.51955E-06 | 3048.23 | 6573.98 | 2.15666 |
| | 2.47052E-08 | 1156.1 | 441.1 | -2.62095 | | | | |
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| -2.4448 | 4.47194E-07 | 1701.25 | 615.267 | -2.76506 | | | | |
| | | | | | 5.27777E-05 | 4015.8 | 1831.65 | -2.19245 |
| -2.0156 | | | | | | | | |
| | | | | | 8.7485E-12 | 2503.13 | 6226.8 | 2.48761 |
| | | | | | 4.37632E-09 | 810.1 | 2151.3 | 2.6556 |
| | 0.00147043 | 1217.4 | 2754.35 | 2.26249 | 2.01084E-10 | #DIV/0! | 2008.7 | #DIV/0! |
| | | | | | 2.16808E-05 | 1429.83 | 399.1 | -3.58262 |

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| -2.1098 | 0.00025323 | 1774.53 | 820.4 | -2.16301 | | | | |
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| | 2.79948E-09 | 1173.6 | 276.2 | -4.24909 | | | | |
| | 4.81052E-07 | 5608.65 | 2498.73 | -2.2446 | | | | |
| | | | | | 0.0120402 | 1174.87 | 572.75 | -2.05127 |
| | | | | | 1.08017E-08 | 9471.15 | 23155.9 | 2.44489 |
| | | | | | 0.000120277 | 1222.55 | 425.5 | -2.87321 |
| | 0.0134689 | 915.433 | 330.05 | -2.77362 | | | | |
| | 0.000101443 | 2753.25 | 7874.8 | 2.86018 | 5.43482E-11 | 4973.75 | 12478.6 | 2.50889 |
| | | | | | 4.67661E-08 | 1888.2 | 5070.55 | 2.68539 |
| | | | | | 3.84542E-10 | 5066.38 | 10734.5 | 2.11877 |
| | | | | | 0.00735781 | 2479.88 | 627.575 | -3.95152 |
| | | | | | 0.00293414 | 2208.38 | 722.325 | -3.05731 |
| | | | | | 9.20348E-06 | 2111.05 | 493.575 | -4.27706 |
| | | | | | 1.75065E-08 | 7085.28 | 16007 | 2.25919 |
| | | | | | 1.79396E-05 | 6862.63 | 17161.8 | 2.50076 |
| | | | | | 1.4305E-06 | 5632.95 | 15954.8 | 2.8324 |
| | | | | | 8.04787E-08 | 1504.97 | 7890.45 | 5.24294 |
| -2.3009 | | | | | 9.91209E-12 | 2633.4 | 850.725 | -3.09548 |
| | 0.00225535 | 514.467 | 164.5 | -3.12746 | 0.00690046 | 975.4 | 425.25 | -2.29371 |
| | 2.52057E-06 | 1219.13 | 2490.15 | 2.04257 | 1.28425E-07 | 1495.5 | 3314.08 | 2.21603 |
| | | | | | 1.13108E-06 | #DIV/0! | 2861.08 | #DIV/0! |
| | | | | | 7.05561E-07 | 4409.5 | #DIV/0! | #DIV/0! |
| | | | | | 0.000137673 | 1811.98 | 662.8 | -2.73382 |
| -2.5209 | 1.11573E-10 | 2311.23 | 565.65 | -4.08596 | 9.98894E-07 | 3810.53 | 1553.43 | -2.45298 |
| | | | | | 2.56121E-05 | 2106.2 | 828.7 | -2.54157 |
| | | | | | 2.98454E-07 | 3038.3 | 6578.48 | 2.16518 |
| | | | | | 2.38931E-05 | 1494.6 | 644.6 | -2.31865 |
| | | | | | 0.00597868 | 859.625 | 267.6 | -3.21235 |
| | | | | | 1.63904E-05 | 3567.1 | 885.067 | -4.03032 |
| | 0.00560167 | 990.9 | #DIV/0! | #DIV/0! | 0.00289212 | 2115.85 | 681.333 | -3.10545 |
| | | | | | 0.00573032 | 2057.3 | #DIV/0! | #DIV/0! |
| | | | | | 6.41593E-07 | 2571.2 | 6294.98 | 2.44826 |
| | 0.000640855 | #DIV/0! | 1462.77 | #DIV/0! | 2.47823E-07 | #DIV/0! | 1454.57 | #DIV/0! |
| | | | | | 2.81656E-11 | #DIV/0! | 3451.38 | #DIV/0! |
| | | | | | 0.00319595 | 1621.93 | 622.933 | -2.6037 |
| | | | | | 0.00879618 | 955.2 | #DIV/0! | #DIV/0! |
| | | | | | 0.0164193 | 2233.8 | 591.8 | -3.77459 |
| | | | | | 8.78329E-05 | 1453.1 | 648.95 | -2.23916 |
| | 2.27793E-09 | 3491.73 | 1167.1 | -2.9918 | 1.71812E-11 | 4990.6 | 1389.2 | -3.59243 |
| | 0.0121801 | 950.25 | 380.767 | -2.49562 | 0.00128636 | 2485.63 | 633.5 | -3.92364 |
| | | | | | 2.85949E-05 | 2547.4 | 5961.78 | 2.34034 |
| | | | | | 0.00969254 | 960.975 | 448.9 | -2.14073 |
| | | | | | 9.18767E-05 | 2889.18 | 610.75 | -4.73054 |
| | 0.000173177 | 6195.18 | 2421.03 | -2.55891 | 0.000542327 | 1176.95 | 374.5 | -3.14272 |
| -2.2325 | | | | | 7.35865E-11 | 6837.08 | 16612.9 | 2.42982 |
| | | | | | 1.36655E-05 | 1257.07 | 2917.58 | 2.32094 |
| | | | | | 0.00795646 | 1196.3 | 456.95 | -2.61801 |
| -2.468 | 0.00554923 | 637.95 | 278.025 | -2.29458 | | | | |
| | 5.7692E-06 | 6424.5 | 2693.05 | -2.38559 | | | | |
| | 9.39107E-06 | 1375.45 | 597.45 | -2.3022 | | | | |
| -2.0844 | 8.67772E-06 | 1719.48 | 770.8 | -2.23077 | | | | |
| | | | | | 0.000045892 | 838.867 | 341.2 | -2.45858 |
| | 0.000831356 | 1303.4 | 441.3 | -2.95355 | | | | |
| 3.84624 | 4.01215E-07 | 1198.3 | 4201.3 | 3.50605 | 5.01047E-08 | 11365.8 | 23632.8 | 2.07929 |
| 3.70071 | 9.64347E-09 | 990.475 | 3396.65 | 3.42931 | 6.48363E-06 | 2028.55 | 4627.58 | 2.28122 |
| 7.51002 | 1.25886E-15 | 1241.9 | 13052.1 | 10.5097 | 1.64449E-08 | 1703.33 | 5286.03 | 3.10336 |
| | | | | | 1.62427E-18 | 1474.35 | 24474.6 | 16.6002 |
| | | | | | 1.93992E-07 | 1958.47 | 4417.35 | 2.25551 |
| | 1.26473E-07 | 3711.9 | 11849.4 | 3.19226 | 4.51687E-05 | 2865.7 | 6729.63 | 2.34834 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| 2.01493 | 1.5368E-08 | 1546.78 | 5379.25 | 3.47772 | 3.06455E-07 | 1042.5 | 3116.45 | 2.9894 |
| | 1.62924E-10 | 23256.8 | 54871.1 | 2.35936 | 9.70988E-14 | 11505.5 | 35064.1 | 3.04759 |
| 2.15214 | 3.55522E-09 | 2962.53 | 10658 | 3.5976 | 1.941E-09 | 1873.15 | 7019.58 | 3.74747 |
| | | | | | 1.2523E-06 | 4367.73 | 10275.8 | 2.35267 |
| | 2.79881E-05 | 18175.8 | 45123 | 2.48259 | 8.27547E-08 | 9111.9 | 27541 | 3.02253 |
| | 9.84343E-06 | 1854.3 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.0004486 | 808.15 | 322.8 | -2.50356 |
| | 0.00313862 | 664.05 | 303.7 | -2.18653 | 0.0160933 | 1072.35 | 516 | -2.0782 |
| | 1.08113E-06 | 2097.05 | 10015.1 | 4.77578 | 1.63227E-12 | #DIV/0! | 5606.08 | #DIV/0! |
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| 2.79903 | 2.88445E-05 | 1088.55 | 3430.25 | 3.15121 | | | | |
| 2.44358 | 1.97542E-07 | 2537.57 | 8605.4 | 3.3912 | | | | |
| | 0.000058883 | #DIV/0! | 772.167 | #DIV/0! | | | | |
| | 0.000159606 | 1454.3 | 707.975 | -2.05417 | 9.98264E-11 | 3757.73 | 871.9 | -4.30981 |
| | | | | | 4.88954E-14 | 14128.6 | 59267 | 4.19482 |
| | | | | | 5.61613E-19 | 16918.9 | 82186.5 | 4.85767 |
| | 9.6069E-07 | 10254.3 | 20965.7 | 2.04459 | 1.77834E-17 | 3590.03 | 23210.8 | 6.46535 |
| | | | | | 9.26391E-06 | 1631.33 | 3899.4 | 2.39033 |
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| -3.3904 | 1.43305E-10 | 2330.83 | 407.367 | -5.72169 | | | | |
| -2.6734 | 2.5497E-11 | 2611.65 | 615.167 | -4.24543 | | | | |
| | | | | | 6.47373E-07 | 1713.67 | #DIV/0! | #DIV/0! |
| | | | | | 2.6981E-08 | 3779.73 | 789.825 | -4.78552 |
| | 0.000110557 | 1676.87 | 590 | -2.84215 | 9.4115E-08 | 4318.43 | 975.867 | -4.42522 |
| | 3.74906E-05 | 1530.88 | 607.867 | -2.51844 | 6.64932E-09 | 3997.7 | 920.45 | -4.3432 |
| | | | | | 5.17045E-06 | 3705.55 | 1047.2 | -3.53853 |
| | | | | | 0.000046915 | 1374.9 | 652.967 | -2.10562 |
| | | | | | 0.000134625 | 1780.53 | 550 | -3.23733 |
| | | | | | 0.00102999 | 1291 | 392.5 | -3.28917 |
| | | | | | 0.00143098 | 1672.77 | #DIV/0! | #DIV/0! |
| | 0.00466747 | 801.767 | #DIV/0! | #DIV/0! | | | | |
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| | | | | | 3.33226E-11 | 11489.8 | 23620 | 2.05573 |
| -3.3757 | 1.32445E-07 | 8528.03 | 2954.78 | -2.88618 | | | | |
| -2.5519 | 0.000316251 | 2731.2 | #DIV/0! | #DIV/0! | | | | |
| -2.05 | 1.61775E-05 | 2613.53 | 1123.28 | -2.3267 | | | | |
| | | | | | 2.14815E-05 | 3743.7 | 1688.53 | -2.21713 |
| | 0.00129779 | 1325.9 | 396.467 | -3.34429 | 0.00139506 | 4007.43 | 830.5 | -4.82532 |
| -2.3954 | 5.54789E-08 | 7004.8 | 17743.2 | 2.533 | | | | |
| | | | | | 3.08663E-14 | 2753.08 | 13290.7 | 4.82757 |
| | | | | | 0.000746128 | #DIV/0! | 1454.03 | #DIV/0! |
| 4.1664 | 5.64235E-08 | 1340.05 | 11701.6 | 8.73221 | 1.64418E-14 | #DIV/0! | 14753.5 | #DIV/0! |
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| 2.64172 | 8.83272E-14 | 5338.75 | 20570.3 | 3.85302 | 5.68464E-15 | 3727.58 | 15828.3 | 4.24628 |
| 2.02821 | 1.43578E-06 | 1051.2 | 3479.88 | 3.31038 | 0.000011302 | #DIV/0! | 4047.38 | #DIV/0! |
| 3.11395 | 4.10774E-06 | 1673.8 | 7479.85 | 4.46878 | 1.11305E-11 | #DIV/0! | 5985.03 | #DIV/0! |
| | | | | | 1.90533E-17 | 1588.93 | 6399.85 | 4.02779 |
| -2.2228 | 1.83805E-08 | 2969.5 | 1161.05 | -2.5576 | | | | |
| #DIV/0! | 9.80312E-05 | 2843.7 | 1379.5 | -2.0614 | | | | |
| 2.02185 | 0.00423213 | 1666.18 | 3556.68 | 2.13463 | 0.000650937 | 1443 | 3247.15 | 2.25028 |
| 2.33647 | 0.000341042 | 2632.08 | 5756.73 | 2.18714 | 1.58938E-07 | 2954.35 | 9567.13 | 3.23832 |
| | 0.00667008 | #DIV/0! | 3454.48 | #DIV/0! | 1.10358E-07 | #DIV/0! | 6065.68 | #DIV/0! |
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| | | | | | 2.62082E-10 | 5130.9 | 13563.8 | 2.64354 |
| | 0.00044795 | 966.467 | 420 | -2.30111 | | | | |
| -2.1315 | 3.16974E-06 | 28844.2 | 13698.5 | -2.10565 | | | | |
| -3.1352 | | | | | | | | |
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| -2.5244 | | | | | | | | |
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| -2.0602 | | | | | | | | |
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| | 0.00369178 | 703 | #DIV/0! | #DIV/0! | | | | |
| | 0.00683584 | 505.267 | #DIV/0! | #DIV/0! | 0.0206128 | 1110.83 | 446.25 | -2.48924 |
| | | | | | 8.85804E-05 | 1830.4 | 533.2 | -3.43286 |
| | 3.92512E-06 | 8182.95 | 3268.53 | -2.50356 | | | | |
| | | | | | 0.000025959 | 1226.15 | 231 | -5.30801 |
| | 0.000303325 | 1258.8 | 454.167 | -2.77167 | 1.45709E-05 | 3411.4 | 754.8 | -4.51961 |
| | | | | | 3.10465E-05 | 1245.45 | 455.333 | -2.73525 |
| 2.84662 | 0.00229768 | 1462.43 | 674.6 | -2.16784 | 1.86706E-05 | 3444.68 | 1108.48 | -3.10758 |
| | | | | | | | | |
| | | | | | 6.10109E-10 | 4511.7 | 10486 | 2.32417 |
| | | | | | 8.92486E-09 | 13828.5 | 29844.5 | 2.15819 |
| | 0.000414181 | 1718.1 | 800.7 | -2.14575 | | | | |
| | | | | | 0.00163262 | 1399.93 | 546.05 | -2.56373 |
| | | | | | 0.000137292 | 1472.13 | #DIV/0! | #DIV/0! |
| | | | | | 0.000170289 | 2446.8 | 662.3 | -3.6944 |
| | 7.19248E-06 | 1331.93 | 527 | -2.52737 | 4.5802E-07 | 2412.13 | 695.6 | -3.46769 |
| | | | | | 3.1172E-07 | 1308.23 | 468.25 | -2.79386 |
| | | | | | | | | |
| | 9.70538E-05 | 929.8 | 420.333 | -2.21205 | | | | |
| | 0.00150655 | 2205.2 | 849.625 | -2.5955 | 0.000011785 | 5105.65 | 1129.93 | -4.51857 |
| | 0.00102022 | 1181.35 | 308.7 | -3.82685 | 0.000134049 | 3340.4 | 846.55 | -3.9459 |
| | | | | | 6.50606E-05 | 2758.6 | 732.2 | -3.76755 |
| | | | | | 0.00232852 | 1856.63 | 539.45 | -3.4417 |
| | | | | | 2.88879E-05 | 4415.65 | #DIV/0! | #DIV/0! |
| | | | | | 0.00287322 | 2267.93 | #DIV/0! | #DIV/0! |
| | 2.69798E-07 | 8338.45 | 3252.75 | -2.56351 | 4.7591E-10 | 19937.6 | 5258.5 | -3.7915 |
| | | | | | 2.36815E-08 | #DIV/0! | 1115.87 | #DIV/0! |
| | | | | | 1.36145E-07 | 9860.6 | 23263.2 | 2.35921 |
| | | | | | 5.90775E-09 | 1816.35 | #DIV/0! | #DIV/0! |
| | 4.52047E-13 | 3302.75 | 679.775 | -4.85859 | 4.65234E-18 | 8511.43 | 941.133 | -9.0438 |
| | 0.000891592 | 901.2 | 337.867 | -2.66732 | | | | |
| | 8.83925E-05 | 833.85 | 319.5 | -2.60986 | 0.000228832 | 1536.78 | 434.1 | -3.54014 |
| | | | | | 3.39044E-05 | 1335.65 | 3194.43 | 2.39166 |
| | 0.0156438 | 936.1 | 1963.8 | 2.09785 | 7.42421E-07 | #DIV/0! | 1465.58 | #DIV/0! |
| | 0.000284192 | 1377.25 | 3362.6 | 2.44153 | 3.69811E-08 | #DIV/0! | 2660.38 | #DIV/0! |
| | | | | | 0.0046865 | 1002.47 | 452.2 | -2.21687 |
| | 0.0033962 | 795.733 | #DIV/0! | #DIV/0! | 0.000380504 | 1554.47 | #DIV/0! | #DIV/0! |
| | | | | | 0.000327406 | 2559.47 | #DIV/0! | #DIV/0! |
| | | | | | 0.005378 | 1145.73 | 278.55 | -4.11318 |
| #DIV/0! | | | | | | | | |
| | | | | | 8.33354E-11 | 13983.8 | 39857.9 | 2.8503 |
| | 0.000602866 | 2390.08 | 738.375 | -3.23694 | 0.0034626 | 2185.3 | 918.1 | -2.38024 |
| | | | | | 1.25174E-10 | 3234.5 | 1092.35 | -2.96105 |
| | | | | | 8.23092E-09 | 2961.8 | 1180.75 | -2.50841 |
| | | | | | 0.00396027 | #DIV/0! | 992.333 | #DIV/0! |
| | | | | | 6.90066E-06 | 3845.2 | 8269.7 | 2.15066 |
| 3.45618 | | | | | | | | |
| | 4.32987E-05 | 3159.88 | 8956.25 | 2.83437 | 0.000296304 | 2525.85 | 5592.33 | 2.21404 |
| | 0.000384565 | 1000.97 | 323.5 | -3.09418 | | | | |
| | | | | | 0.00118419 | 1122.53 | 362.133 | -3.09976 |
| | | | | | 0.000691676 | 800.4 | #DIV/0! | #DIV/0! |
| | | | | | 0.00054702 | 6221.58 | 2521.45 | -2.46746 |
| | | | | | 0.000011671 | 1699.87 | 681.7 | -2.49357 |
| | | | | | 1.20442E-05 | 1067.9 | 491.467 | -2.17288 |
| -2.4846 | 0.000120375 | 1364.18 | 578.35 | -2.35874 | | | | |
| | 4.13489E-08 | 7154.38 | 25737.5 | 3.59745 | 1.64398E-07 | 3270.95 | 9666.03 | 2.95511 |
| | 7.52928E-08 | #DIV/0! | 3655.93 | #DIV/0! | 9.64146E-07 | #DIV/0! | 1785.63 | #DIV/0! |
| | 4.07576E-05 | 563.225 | 1410.13 | 2.50366 | | | | |
| 2.18922 | 4.66756E-06 | 1652.35 | 5439.8 | 3.29216 | | | | |
| | | | | | 5.80726E-10 | 5792.68 | 15033.9 | 2.59533 |
| | | | | | 1.21626E-07 | #DIV/0! | 2009.3 | #DIV/0! |
| | 2.6231E-06 | 4939.15 | 10570 | 2.14005 | 5.72949E-10 | 3942.1 | 10381.1 | 2.63339 |
| | | | | | 0.00162405 | 1816.28 | 500.7 | -3.62747 |
| | | | | | 0.00169451 | 846.6 | 254.4 | -3.32783 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00269737 | 2198.25 | 878.1 | -2.50342 |
| | | | | | 0.00236566 | 1022.63 | 298.2 | -3.42935 |
| | 3.68967E-06 | 436.4 | 3878.23 | 8.88686 | 0.00600191 | 844.7 | 2407.43 | 2.85004 |
| 8.46561 | 3.44198E-09 | 2597.1 | 26642.1 | 10.2584 | 2.0785E-06 | 4156.33 | 21288.6 | 5.12197 |
| 7.60554 | 4.81948E-09 | 3152.28 | 29335 | 9.30597 | 7.67024E-07 | 3897.73 | 20684.7 | 5.30687 |
| 3.70021 | | | | | | | | |
| -2.0712 | 3.3374E-11 | 2211.03 | 493.425 | -4.48097 | 1.0417E-09 | 2489.93 | 638.725 | -3.89827 |
| | | | | | 1.01092E-08 | 5452.53 | 14957.6 | 2.74324 |
| 4.24403 | 3.28678E-08 | 1617.65 | 4825.58 | 2.98308 | 3.44774E-08 | 2297.27 | 5158.35 | 2.24543 |
| | 1.05735E-11 | 15390.7 | 42214.6 | 2.74286 | 2.32486E-17 | 10986.2 | 49867.7 | 4.53912 |
| 2.66983 | 9.51855E-08 | 1808.3 | 6460.7 | 3.5728 | 1.40113E-06 | #DIV/0! | 4952.05 | #DIV/0! |
| -2.1717 | | | | | | | | |
| | | | | | 0.000476619 | 3676.35 | 1657.9 | -2.21747 |
| | 2.72038E-05 | 7567.85 | 22206.3 | 2.93429 | 2.24915E-12 | 2571.28 | 20168.1 | 7.84361 |
| 3.02312 | 1.47032E-06 | 3538.58 | 22471.1 | 6.35033 | 8.6188E-10 | 2441.1 | 20301.9 | 8.31668 |
| | | | | | 9.30455E-05 | 1397.03 | 417.7 | -3.34457 |
| | 0.0152638 | 2035.15 | 902.9 | -2.25401 | | | | |
| -2.0588 | | | | | | | | |
| | | | | | 0.0019201 | 1605.6 | 566.55 | -2.834 |
| | | | | | 5.08888E-07 | 1738.6 | 4023.23 | 2.31406 |
| | 7.78162E-06 | 963.75 | #DIV/0! | #DIV/0! | | | | |
| 4.76741 | 3.99131E-06 | 1306.73 | 5480.2 | 4.19382 | 0.00246227 | 1947.37 | 4327 | 2.22197 |
| | | | | | 4.37877E-07 | 2946.78 | 14155.2 | 4.80362 |
| | 0.00153708 | 3896.13 | 10715.1 | 2.7502 | 1.51762E-07 | 1356.3 | 7220.85 | 5.32393 |
| | | | | | 0.00060567 | #DIV/0! | 1712.5 | #DIV/0! |
| | | | | | 0.000953841 | 1115.83 | 429.3 | -2.59917 |
| | 8.84606E-07 | 1234.4 | 467.8 | -2.63873 | 5.01817E-08 | 1666.88 | 554.133 | -3.00808 |
| 3.6575 | | | | | | | | |
| -2.3848 | | | | | | | | |
| | | | | | 2.58202E-06 | #DIV/0! | 1259.08 | #DIV/0! |
| | | | | | 0.00187775 | 2440.73 | 616.95 | -3.95611 |
| | 0.00121047 | 930.85 | 335.825 | -2.77183 | 0.000444911 | 2748.08 | 887.2 | -3.09747 |
| | | | | | 0.00460419 | 2303.3 | 772.05 | -2.98336 |
| | 8.02139E-07 | 4685.28 | 1943.08 | -2.41127 | 7.21945E-10 | 7317.05 | 2305.9 | -3.17319 |
| | | | | | 0.000347445 | 1092.97 | #DIV/0! | #DIV/0! |
| | | | | | 0.000743498 | #DIV/0! | 2583.78 | #DIV/0! |
| | 6.40609E-05 | 3483.83 | 1696.58 | -2.05345 | | | | |
| 2.7606 | | | | | | | | |
| 2.97158 | | | | | | | | |
| | | | | | 4.2142E-07 | 2444.23 | 982.8 | -2.487 |
| | | | | | 1.11382E-07 | 1405.03 | 570.075 | -2.46463 |
| 2.45869 | | | | | | | | |
| | | | | | 5.01019E-05 | #DIV/0! | 1651.9 | #DIV/0! |
| 6.29644 | 0.000024269 | 2685.93 | 15498.8 | 5.77039 | | | | |
| | | | | | 0.0218709 | #DIV/0! | 1267.97 | #DIV/0! |
| | 0.000106171 | 642.433 | 186.05 | -3.45301 | | | | |
| -3.3374 | 8.31667E-06 | 2746.58 | 877.1 | -3.13143 | | | | |
| | | | | | 0.000068274 | 6613.35 | 1216.08 | -5.43827 |
| | | | | | 0.00360192 | 5159.68 | 1280.45 | -4.02958 |
| | | | | | 1.54522E-05 | 1462.23 | 650.275 | -2.24864 |
| | 0.000147578 | 511.05 | 171.1 | -2.98685 | 0.00113486 | 1120.53 | 359.9 | -3.11346 |
| | 0.000132265 | 1434.65 | 626.5 | -2.28994 | 1.9086E-06 | 2445.7 | 817.95 | -2.99004 |
| | 0.00020646 | 1734.9 | 3712.93 | 2.14014 | 2.64472E-06 | #DIV/0! | 2862.05 | #DIV/0! |
| | 3.98298E-05 | 1163.05 | 478.925 | -2.42846 | | | | |
| | 0.00164714 | 2468.05 | 864.2 | -2.85588 | 0.00120262 | 4928.25 | 1795.95 | -2.74409 |
| | | | | | 3.87819E-08 | 3052.75 | 7337.18 | 2.40346 |
| | | | | | | | | |
| | | | | | 0.0014021 | 3906.15 | 1653.4 | -2.3625 |
| | | | | | 5.4566E-07 | 2787.38 | 5669.8 | 2.0341 |
| | | | | | 4.41964E-05 | 703.15 | 267.3 | -2.63056 |
| | 0.00211547 | #DIV/0! | 1073.2 | #DIV/0! | | | | |
| -3.0571 | 3.00011E-05 | 761.4 | 251.25 | -3.03045 | | | | |

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|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | 0.000186339 | 1932.83 | 9679.13 | 5.00774 |
| 0.00142468 | #DIV/0! | 14195.3 | #DIV/0! | 8.04245E-05 | 3720.4 | 19505.8 | 5.24292 |
| 5.47948E-05 | 1043.35 | 454.425 | -2.29598 | 5.98869E-09 | 1848.7 | 483.35 | -3.82476 |
| | | | | 2.05633E-09 | 2408.6 | 5548.73 | 2.30371 |
| 2.41058E-08 | 2594.6 | 9889.5 | 3.81157 | 3.50958E-10 | 2067.2 | 7660.88 | 3.70592 |
| 2.6793E-07 | 2821.1 | 7782.95 | 2.75884 | 2.70637E-10 | 1634.18 | 6459.83 | 3.95296 |
| | | | | 4.49081E-11 | #DIV/0! | 5513.43 | #DIV/0! |
| | | | | 3.33194E-06 | 2306.33 | 764.25 | -3.01776 |
| | | | | 0.000166268 | 1468.33 | 696.575 | -2.10792 |
| | | | | 1.11459E-05 | 2432.3 | 5072.78 | 2.08559 |
| 0.00104024 | 2122.68 | 722.625 | -2.93745 | | | | |
| 0.000761063 | 1104.78 | 548.833 | -2.01295 | | | | |
| | | | | 7.85913E-14 | 11138.7 | 62110.3 | 5.57607 |
| | | | | 0.000145406 | #DIV/0! | 1972.08 | #DIV/0! |
| | | | | 0.00929554 | 1860 | 897 | -2.07358 |
| | | | | 7.18332E-06 | 5694.33 | 12206.9 | 2.14369 |
| | | | | 2.80553E-13 | 3681.18 | 8834.3 | 2.39986 |
| | | | | 0.00581723 | 1418.85 | #DIV/0! | #DIV/0! |
| | | | | 1.047E-07 | 4635.53 | 2244.9 | -2.06491 |
| 7.16032E-06 | 2242.33 | 1087.8 | -2.06134 | | | | |
| | | | | 2.5005E-07 | 1415.6 | 3791.63 | 2.67846 |
| | | | | 2.24923E-05 | 1988.93 | 680.225 | -2.92392 |
| | | | | 2.50435E-11 | 4025.85 | 12283.4 | 3.05113 |
| | | | | 4.79911E-14 | 7037.23 | 24987.3 | 3.55073 |
| | | | | 7.24335E-12 | 4416.05 | 17376.5 | 3.93485 |
| | | | | 3.54436E-13 | 16369.4 | 48188.3 | 2.9438 |
| | | | | 2.93669E-12 | 13950.2 | 46016.8 | 3.29864 |
| | | | | 9.5051E-06 | 3237.03 | 1611.8 | -2.00833 |
| | | | | 0.00430361 | 921.775 | 256.5 | -3.59366 |
| | | | | 3.3557E-08 | 2462.83 | 5939.48 | 2.41165 |
| | | | | 2.14248E-12 | 2711.5 | 10359.4 | 3.82052 |
| | | | | 5.1278E-09 | 3968.6 | 10935.3 | 2.75546 |
| | | | | 4.81732E-06 | 2097.28 | 5460.88 | 2.6038 |
| | | | | 0.00383051 | #DIV/0! | 1595.08 | #DIV/0! |
| 8.91069E-07 | 7293.68 | 18770.8 | 2.57357 | 7.90612E-12 | 6080.5 | 28624.4 | 4.70757 |
| 1.44013E-09 | 4116.85 | 19376.5 | 4.70663 | 6.67664E-14 | 3534 | 27720.8 | 7.84402 |
| | | | | 1.79197E-15 | 8894.68 | 44406.5 | 4.99248 |
| | | | | 4.72925E-12 | 893.4 | 9351.38 | 10.4672 |
| 0.000261135 | 2465.98 | 6798.88 | 2.75707 | | | | |
| | | | | 0.000147118 | 1483.48 | 655.7 | -2.26243 |
| | | | | 0.000448531 | #DIV/0! | 1740 | #DIV/0! |
| | | | | 4.76866E-12 | 8109.98 | 32995.1 | 4.06846 |
| 0.000296519 | 3240.23 | 6591.6 | 2.0343 | | | | |
| 4.53551E-07 | 2510.9 | 7829.78 | 3.11831 | 1.8923E-08 | 2176.75 | 7623.95 | 3.50245 |
| 0.000126531 | 3755.53 | 8436.6 | 2.24645 | 7.36411E-11 | 2027.2 | 8931.68 | 4.40592 |
| | | | | 2.02887E-07 | #DIV/0! | 7345.48 | #DIV/0! |
| | | | | 0.00274427 | 888.725 | 396.95 | -2.23888 |
| | | | | 0.0137423 | 1079.8 | 255.467 | -4.22677 |
| | | | | 0.00235134 | 1094 | 312.8 | -3.49744 |
| | | | | 0.000020291 | #DIV/0! | 3744.38 | #DIV/0! |
| | | | | 2.79794E-09 | 5679.6 | 18369.2 | 3.23423 |
| | | | | 3.64458E-06 | 1797.4 | 542.633 | -3.31237 |
| | | | | 1.53956E-11 | 2536.27 | 5692.95 | 2.24462 |
| 7.61735E-05 | 1330.25 | 599.675 | -2.21828 | 1.91153E-06 | 1910.6 | 712.2 | -2.68267 |
| 8.87163E-08 | 2066 | 4803.75 | 2.32515 | 0.00130148 | #DIV/0! | 2639.73 | #DIV/0! |
| | | | | 0.00884057 | 2397.83 | 678.933 | -3.53175 |
| | | | | 2.57073E-05 | 1690.23 | 455.3 | -3.71233 |
| 4.16168E-08 | 27558.6 | 91066.3 | 3.30446 | 4.65911E-16 | 11376.9 | 105463 | 9.26999 |
| | | | | 0.000175852 | 1518.93 | 752.75 | -2.01785 |
| | | | | 0.000465608 | 2823.45 | 5708.75 | 2.02191 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| -2.543 | 7.67405E-05 | 1919.58 | 834.575 | -2.30006 | 0.000115277 | 1784.78 | 846.425 | -2.1086 |
| | 3.77079E-05 | 737.825 | 303.275 | -2.43286 | 6.03773E-05 | 1249.7 | 446.3 | -2.80013 |
| | 0.00608097 | 658.7 | 326.433 | -2.01787 | | | | |
| -2.9672 | | | | | | | | |
| | 2.80041E-08 | 2154.73 | #DIV/0! | #DIV/0! | 4.3982E-13 | 5020.25 | 1334.6 | -3.76161 |
| | | | | | 0.00106104 | 1451.7 | 518.55 | -2.79954 |
| | | | | | 0.00278221 | 1622.37 | 757.733 | -2.14108 |
| -2.7989 | | | | | | | | |
| -2.5824 | | | | | | | | |
| | | | | | 1.62224E-12 | 8415.8 | 19978.6 | 2.37394 |
| | | | | | 4.15065E-13 | 1391.83 | 338.3 | -4.11417 |
| | 1.39742E-05 | 1711.9 | 827.575 | -2.06857 | 3.67945E-09 | 2272.4 | 820.267 | -2.77032 |
| | | | | | 0.0012045 | #DIV/0! | 955.025 | #DIV/0! |
| | 1.55572E-06 | 3433.55 | 1525.03 | -2.25147 | | | | |
| | 4.40658E-05 | 1033.83 | 462.675 | -2.23445 | | | | |
| | 0.00580314 | 924.2 | 356.167 | -2.59485 | | | | |
| 3.44503 | 3.87344E-05 | #DIV/0! | 3525.63 | #DIV/0! | 3.86089E-05 | 1227.1 | 2978.3 | 2.4271 |
| | 4.27734E-05 | 1082.9 | 409.4 | -2.64509 | 3.72267E-05 | 1750.67 | 663.475 | -2.63863 |
| -2.6199 | | | | | 8.97767E-06 | 4761.7 | 2297.88 | -2.07222 |
| | | | | | 0.00265349 | 1311.57 | 466.467 | -2.81171 |
| | | | | | 0.000043402 | 7156.25 | 1874.68 | -3.81733 |
| | | | | | 9.10309E-07 | 2528.78 | 910.133 | -2.77847 |
| | 0.0030765 | 1673.2 | 746.8 | -2.24049 | | | | |
| #DIV/0! | | | | | | | | |
| | | | | | 0.000120534 | 1300.18 | 476.1 | -2.73089 |
| | | | | | 5.88949E-09 | 2690.23 | 6486.43 | 2.41111 |
| | | | | | 0.000266189 | 1623.97 | #DIV/0! | #DIV/0! |
| | | | | | 0.012975 | 1252.25 | #DIV/0! | #DIV/0! |
| | | | | | 0.00112492 | 795.667 | 233.667 | -3.40514 |
| | 0.00171491 | 672.2 | 220.6 | -3.04714 | 0.000366573 | 1005.17 | #DIV/0! | #DIV/0! |
| | 0.000351432 | 1059.23 | #DIV/0! | #DIV/0! | | | | |
| -2.6295 | 0.000225645 | 6544.25 | 2902.53 | -2.25467 | 3.69461E-10 | 9116 | 24961.6 | 2.73822 |
| | | | | | 2.2498E-06 | 1342.18 | 590.525 | -2.27285 |
| | | | | | 2.25242E-13 | 13649.2 | 37591.8 | 2.75414 |
| | | | | | 1.8025E-07 | 4232.95 | 8683.3 | 2.05136 |
| | | | | | 1.5557E-06 | 4502.08 | 911.1 | -4.94136 |
| | | | | | 1.39134E-06 | 2384.05 | 602.633 | -3.95605 |
| | | | | | 0.0181317 | 1235.33 | 572.2 | -2.1589 |
| | | | | | 3.58878E-06 | 2882.33 | 783.85 | -3.67714 |
| | | | | | 4.88118E-10 | 31057.3 | 89469.6 | 2.88079 |
| | | | | | 1.41673E-05 | 1597.97 | #DIV/0! | #DIV/0! |
| -2.6007 | | | | | | | | |
| | | | | | 6.57548E-07 | 9150.85 | 22630 | 2.47299 |
| | | | | | 0.000397203 | 1177.55 | 445.65 | -2.64232 |
| | 8.80445E-05 | 680.067 | 281.4 | -2.41673 | 0.0165941 | 927.45 | 364.533 | -2.54421 |
| | 1.75177E-07 | 2855.98 | 6186.58 | 2.16619 | 1.57603E-09 | 2726.48 | 7109.8 | 2.60769 |
| | | | | | 1.91966E-09 | 3030.7 | 8497.88 | 2.80393 |
| | | | | | 0.00116125 | #DIV/0! | 1095.17 | #DIV/0! |
| | 0.000242275 | 1132.8 | 2684.28 | 2.36959 | 0.000472864 | #DIV/0! | 3289.33 | #DIV/0! |
| | | | | | 0.00437901 | 1118.67 | 503.4 | -2.22222 |
| | 6.12754E-07 | 5672.05 | 2817.87 | -2.01289 | 1.16954E-08 | 5415.8 | 2418.18 | -2.23962 |
| | 3.16974E-10 | 2928.75 | 899.15 | -3.25724 | 1.86901E-07 | 3390.08 | 1481.53 | -2.28823 |
| | 7.30163E-08 | 4548.45 | 10554.9 | 2.32055 | 2.02499E-14 | 1983.9 | 9219.9 | 4.64736 |
| | 1.22776E-12 | 4291.45 | 14084.3 | 3.28194 | 3.20967E-17 | 2154.33 | 11161 | 5.18073 |
| | 1.48784E-11 | 2652.2 | 8757.68 | 3.30204 | 9.7884E-17 | 1458.18 | 8090.33 | 5.54825 |
| | 0.00194034 | 1212.43 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 6.63096E-06 | 1749.73 | 577.5 | -3.02984 |
| 2.13474 | 1.8777E-09 | 947.725 | 3782.3 | 3.99093 | 1.07509E-05 | 892.75 | 1988.63 | 2.22753 |
| | 1.88384E-10 | 6844.15 | 20845.9 | 3.0458 | 2.51149E-12 | 3714.98 | 12342.9 | 3.32246 |
| 2.72503 | 5.62895E-09 | 944.967 | 3035.88 | 3.21268 | | | | |
| | | | | | 3.05277E-06 | 2868.05 | 853.7 | -3.35955 |
| | | | | | 0.00124781 | 1109.13 | 352.35 | -3.14782 |

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|-------------|-------------|---------|----------|-------------|-------------|---------|----------|----------|--|
| 0.00169013 | 762.8 | 336.7 | -2.26552 | | | | | | |
| | | | | 7.36845E-05 | 1473.83 | 365.925 | -4.02769 | | |
| | | | | 0.00030486 | 2051.1 | 885.1 | -2.31737 | | |
| | | | | 0.000012933 | 1661.9 | 458.733 | -3.6228 | | |
| | | | | 0.000177693 | 3291.93 | 1235.6 | -2.66423 | | |
| 4.13437E-07 | 1368.78 | 347.2 | -3.94232 | 4.79262E-09 | 3509.28 | 641.025 | -5.47447 | | |
| | | | | 0.00369698 | 1286.65 | 583.85 | -2.20373 | | |
| 0.00669612 | #DIV/0! | 1174.18 | #DIV/0! | | | | | | |
| | | | | 1.11465E-13 | 1777.28 | 3632.53 | 2.04387 | | |
| | | | | 0.00143979 | 1374.63 | 433.275 | -3.17264 | | |
| | | | | 5.28888E-09 | 15616.6 | 48196.7 | 3.08625 | | |
| | | | | 1.34461E-09 | 40359.8 | 130831 | 3.24163 | | |
| | | | | 1.86229E-09 | 16092.8 | 54822.6 | 3.40666 | | |
| | | | | 1.91596E-07 | 6455.03 | 25589 | 3.9642 | | |
| | | | | 1.03004E-12 | 11392.8 | 48994 | 4.30043 | | |
| 2.89744 | 7.28151E-15 | 9184 | 53422.3 | 5.81689 | 9.73486E-13 | 11026.5 | 45481 | 4.12472 | |
| 2.94067 | 8.25477E-16 | 4823.83 | 36762.6 | 7.62105 | 1.43271E-12 | 5878.58 | 25852.5 | 4.39775 | |
| | 8.34542E-05 | 31844.5 | 75065.1 | 2.35724 | 0.000060957 | 29200.6 | 68602.8 | 2.34937 | |
| | 1.24189E-05 | 25269.5 | 74665.5 | 2.95477 | 9.44195E-06 | 22754.9 | 63826.6 | 2.80496 | |
| 2.90642 | 1.08349E-11 | 11186.4 | 47417.5 | 4.23886 | 3.392E-13 | 10456 | 51419.2 | 4.91768 | |
| 3.13073 | 4.72214E-11 | 12061.1 | 53372.5 | 4.42517 | 2.59024E-12 | 11684.7 | 61667.2 | 5.2776 | |
| | | | | | 0.00354777 | 1751.05 | 719.8 | -2.43269 | |
| -2.6165 | 2.41663E-08 | 6797.48 | 1527.93 | -4.44883 | 1.95282E-06 | 4765.53 | 1602.8 | -2.97325 | |
| | | | | | 0.0180504 | 1516.47 | 731.45 | -2.07323 | |
| | | | | | 3.67496E-11 | 3795.58 | 12517 | 3.29779 | |
| | | | | | 0.000027091 | #DIV/0! | 2638 | #DIV/0! | |
| | | | | | 0.000470995 | #DIV/0! | 2602.27 | #DIV/0! | |
| | | | | | 6.81337E-06 | 8958.93 | 19983 | 2.23052 | |
| -2.0264 | | | | | | | | | |
| 2.95896 | 7.0836E-07 | #DIV/0! | 877.475 | #DIV/0! | 0.0024039 | 708 | 1668.43 | 2.35653 | |
| | 1.76436E-10 | 6868.45 | 18584.7 | 2.7058 | 9.34453E-18 | 4060.65 | 22523 | 5.54666 | |
| | 1.51311E-07 | 34224.8 | 106424 | 3.10955 | 2.88609E-15 | 13772.8 | 104612 | 7.59556 | |
| 2.33809 | 1.64666E-13 | 1753.33 | 5742.78 | 3.27536 | 1.8453E-14 | 1468.55 | 4997.63 | 3.4031 | |
| 3.76075 | | | | | 0.00035913 | 1429.08 | 626.75 | -2.28014 | |
| -2.9587 | 0.000237049 | 9759.98 | 3402.53 | -2.86845 | | | | | |
| -2.8007 | 9.73487E-05 | 18517.8 | 6926.83 | -2.67334 | | | | | |
| -3.3318 | 0.00316861 | 3677.35 | 1473.03 | -2.49646 | | | | | |
| | | | | | 0.00702114 | 1018.98 | 355.5 | -2.86632 | |
| | | | | | 2.7411E-06 | 2188.93 | 1022.35 | -2.14107 | |
| | 3.33392E-08 | 38051.7 | 10040.5 | -3.78984 | 0.000014417 | 7088.2 | 2846.28 | -2.49034 | |
| -2.0143 | 2.31143E-10 | 38573.3 | 7999.95 | -4.82169 | 1.32009E-05 | 5996.23 | 2543.6 | -2.35738 | |
| | 0.00003761 | 5201.45 | 14320.6 | 2.75318 | 7.32552E-11 | 2194.33 | 12171.4 | 5.54674 | |
| | | | | | 0.00710886 | #DIV/0! | 2738.15 | #DIV/0! | |
| | | | | | 1.45086E-08 | #DIV/0! | 1313.23 | #DIV/0! | |
| | 1.44579E-07 | 18895.5 | 53174 | 2.81412 | 5.26356E-11 | 10080.2 | 39343.4 | 3.90305 | |
| | | | | | | | | | |
| | | | | | 0.00117613 | #DIV/0! | 2506.57 | #DIV/0! | |
| | 5.22475E-07 | 1186.13 | 582.7 | -2.03557 | | | | | |
| | | | | | 3.94112E-12 | 1924.93 | 5648.98 | 2.93465 | |
| | 2.59389E-07 | #DIV/0! | 1920.73 | #DIV/0! | 3.66585E-12 | #DIV/0! | 1163.03 | #DIV/0! | |
| | | | | | 5.15419E-10 | 5072.38 | 1317.08 | -3.85124 | |
| | | | | | 2.57979E-07 | 3146.95 | 908.8 | -3.46275 | |
| | | | | | 0.018278 | #DIV/0! | 2517.7 | #DIV/0! | |
| | | | | | | | | | |
| | 1.10421E-06 | 1306.4 | 482.6 | -2.707 | 4.42989E-07 | 2392.75 | 5064.68 | 2.11668 | |
| | 0.000194998 | 1997.18 | 899.025 | -2.22149 | 3.22969E-08 | 1613.73 | 596.65 | -2.70464 | |
| | | | | | | | | | |
| | | | | | 3.06868E-05 | #DIV/0! | 1137.4 | #DIV/0! | |
| | 0.00155213 | 1939.2 | 3990.15 | 2.05763 | 8.16263E-08 | #DIV/0! | 3869.5 | #DIV/0! | |
| | 0.000171627 | 2860.28 | 7639.03 | 2.67073 | 4.04305E-07 | 1807.85 | 5419.78 | 2.99791 | |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.000210019 | 3196.68 | 729.75 | -4.38051 |
| | | | | | 1.06892E-10 | 3219 | 9413.68 | 2.92441 |
| -2.7869 | 0.00252575 | 991.675 | 467.95 | -2.11919 | | | | |
| -2.0328 | 4.49908E-07 | 4627.85 | 2217.05 | -2.08739 | | | | |
| -2.058 | | | | | | | | |
| | 0.000375246 | 7103.35 | 2997.75 | -2.36956 | | | | |
| | | | | | 3.16533E-05 | 1345.7 | 344.675 | -3.90426 |
| | | | | | 0.00808423 | 982.375 | 370.2 | -2.65363 |
| | 7.18289E-05 | 667.3 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 5.57988E-07 | 1631.45 | 3543.33 | 2.17189 |
| | | | | | 1.40774E-06 | 1626.63 | 4058.68 | 2.49514 |
| | | | | | 2.53931E-07 | 1731.9 | 791.75 | -2.18743 |
| | | | | | 1.60828E-08 | #DIV/0! | 2916.2 | #DIV/0! |
| | | | | | 4.21422E-11 | 1113.7 | 3173.03 | 2.84908 |
| | | | | | 0.0107429 | 1806.33 | 728.3 | -2.48019 |
| | 0.000833013 | 666.825 | 217.35 | -3.06798 | 0.00130114 | 1660.15 | 714.225 | -2.32441 |
| | 0.00150368 | 537.1 | 1486.15 | 2.76699 | | | | |
| | 1.05836E-05 | 483.967 | 2165.5 | 4.47448 | | | | |
| | | | | | 1.83258E-16 | 3289.55 | 23217.9 | 7.05809 |
| | | | | | 0.0167967 | 778.5 | #DIV/0! | #DIV/0! |
| 8.44233 | 1.98701E-14 | 7885.93 | 92013.2 | 11.668 | 1.05473E-15 | 10959.8 | 109590 | 9.99921 |
| 8.2261 | 2.2176E-14 | 7458.28 | 107699 | 14.4402 | 3.26724E-16 | 9707.88 | 124662 | 12.8414 |
| | 0.000632409 | 566.85 | 1251.1 | 2.20711 | | | | |
| | 0.0019444 | 544.875 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 5.51382E-05 | 898.3 | 434.8 | -2.06601 |
| | 0.00216745 | 1494.18 | 4096.05 | 2.74135 | | | | |
| | 0.00268954 | 551.167 | 2393 | 4.3417 | | | | |
| | 9.54186E-07 | 17546.3 | 38420.7 | 2.18968 | 7.27328E-14 | 11214.4 | 53026 | 4.72837 |
| | 6.70827E-06 | 6782.23 | 18864.5 | 2.78146 | 7.88662E-11 | 3968.73 | 21349.2 | 5.37937 |
| | 5.85962E-08 | 8374.4 | 27454.3 | 3.27836 | 3.13808E-12 | 5319.6 | 31170.5 | 5.85955 |
| | | | | | 9.60643E-05 | #DIV/0! | 3751.38 | #DIV/0! |
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| | | | | | 0.00278987 | 1420.63 | 442.1 | -3.21338 |
| | | | | | 0.000441278 | 2801.68 | 770.4 | -3.63665 |
| | | | | | 0.00102797 | 1152.07 | 427.4 | -2.69552 |
| | | | | | 0.00054577 | 4367.37 | 1042.8 | -4.18812 |
| | | | | | 1.28217E-08 | 1551.8 | #DIV/0! | #DIV/0! |
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| | | | | | 7.95284E-05 | 2226.93 | 4636.18 | 2.08187 |
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| 2.33526 | 0.00153612 | #DIV/0! | 1523.15 | #DIV/0! | | | | |
| | | | | | | | | |
| | 0.000006901 | 3132.88 | 8564.88 | 2.73387 | 5.81713E-06 | 2317.93 | 6676.68 | 2.88045 |
| 2.2401 | 5.44383E-08 | 1541.15 | 3808.25 | 2.47104 | | | | |
| | 0.000420773 | 636.733 | #DIV/0! | #DIV/0! | | | | |
| | 0.000420647 | #DIV/0! | 1138.67 | #DIV/0! | | | | |
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| | 2.03811E-06 | 4741.63 | 10834.7 | 2.28501 | | | | |
| | 0.00000277 | 1407.03 | 380.8 | -3.69492 | | | | |
| | 3.95493E-07 | 5504.8 | 13232.1 | 2.40374 | 7.62779E-14 | 2415.8 | 13343.5 | 5.52341 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 3.97394E-11 | 3547.3 | 8906.53 | 2.51079 |
| | | | | | 0.00145719 | 1777.45 | 398.033 | -4.46558 |
| | 1.93592E-05 | 2104.63 | 886.275 | -2.37469 | 4.87155E-11 | 6548.48 | 1353.5 | -4.83818 |
| | | | | | 1.49048E-07 | 10174.5 | 2130.1 | -4.77654 |
| | | | | | 6.53612E-07 | 6939.3 | 1132.4 | -6.12796 |
| | | | | | 0.00138933 | 3463.4 | 566.75 | -6.11098 |
| | 0.000359368 | 18723.4 | 40999.4 | 2.18974 | 1.20024E-08 | 7218.05 | 27369.1 | 3.79175 |
| | | | | | 0.0168857 | #DIV/0! | 752.95 | #DIV/0! |
| -3.4754 | 1.19106E-11 | 5146.75 | 975.1 | -5.27818 | 3.17496E-07 | 4142.3 | 1247.8 | -3.31968 |
| | 0.00231053 | 2030.83 | 1006.75 | -2.01721 | | | | |
| | 0.000346829 | 5684.45 | 2440.6 | -2.32912 | | | | |
| | 9.30663E-09 | 2577.45 | 734 | -3.51151 | 4.87438E-06 | 1907.67 | 883.125 | -2.16013 |
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| | 8.38972E-05 | 998.95 | 452.8 | -2.20616 | | | | |
| | 0.00196548 | 651.767 | 2849.43 | 4.37185 | 1.26424E-07 | 798.9 | 3126.78 | 3.91385 |
| | 2.75215E-06 | 19403.2 | 44578.4 | 2.29748 | 3.53121E-15 | 8145.6 | 49934.7 | 6.13026 |
| | 0.010608 | 605.3 | 231.3 | -2.61695 | | | | |
| | | | | | 0.00107271 | #DIV/0! | 1511 | #DIV/0! |
| | 0.00194801 | 1343.75 | 358.3 | -3.75035 | 1.79936E-06 | 2013.05 | 247.65 | -8.12861 |
| | 0.00198772 | 913.65 | 323.15 | -2.82732 | | | | |
| | 0.00497014 | 591.567 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 1.01488E-05 | 2181.95 | 921.325 | -2.36827 |
| | 1.09421E-05 | 7088.13 | 2986 | -2.37379 | | | | |
| | 8.83148E-05 | 22959.8 | 5834.83 | -3.93496 | 1.42575E-08 | 18293.5 | 1862.18 | -9.82371 |
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| | 6.34995E-06 | 11985.6 | 3712.78 | -3.22821 | | | | |
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| -2.3287 | 2.50704E-10 | 3148.13 | 978.725 | -3.21656 | | | | |
| -2.6887 | 1.93947E-06 | 3933.65 | 1753 | -2.24395 | | | | |
| -3.6801 | 7.1306E-06 | 2419.15 | 1111.75 | -2.17598 | | | | |
| | 1.27629E-08 | 2448.1 | 5880.55 | 2.40209 | 1.3665E-12 | 1681.5 | 5848.23 | 3.47798 |
| | 0.000496038 | 829 | 398.45 | -2.08056 | | | | |
| | 3.56994E-08 | 3424.48 | 7842.58 | 2.29015 | 1.85765E-10 | 2543.65 | 6975.18 | 2.74219 |
| | 5.94357E-06 | 6917.95 | 14291.6 | 2.06586 | 1.32234E-08 | 5583.18 | 15864.3 | 2.84144 |
| | | | | | 3.06078E-05 | #DIV/0! | 2763.75 | #DIV/0! |
| | | | | | 0.000127438 | 1037.8 | 380.4 | -2.72818 |
| | | | | | 9.89647E-05 | 33845.6 | 10293.6 | -3.28803 |
| | 5.13285E-07 | 1830.98 | 510.3 | -3.58804 | 5.50017E-06 | 2971.7 | 733.925 | -4.04905 |
| | 3.52502E-05 | 1021.18 | 388.2 | -2.63054 | 5.16495E-07 | 2375.28 | 658.4 | -3.60765 |
| | | | | | 7.55589E-06 | 2696.78 | 619.2 | -4.35526 |
| | 0.00483246 | 2814.55 | 1314.2 | -2.14165 | | | | |
| | 0.000438239 | 511.05 | 193.7 | -2.63836 | 0.00809317 | 588.975 | 207.167 | -2.843 |
| -2.3386 | 9.65312E-06 | 1087.25 | 267.8 | -4.05993 | 1.59367E-05 | 1245.5 | 367.2 | -3.39188 |
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| | 5.74488E-07 | 2565.35 | 1029.45 | -2.49196 | | | | |
| | | | | | 0.00608003 | 1313.2 | 2659 | 2.02482 |
| | 0.00157292 | 609.233 | #DIV/0! | #DIV/0! | 0.000373275 | 1461.07 | #DIV/0! | #DIV/0! |
| | 2.42117E-06 | 1823.28 | 802.8 | -2.27114 | | | | |
| | 0.000110705 | 372.3 | 1354.05 | 3.63699 | | | | |
| | | | | | 6.78613E-15 | 5841.9 | 17520.6 | 2.99912 |
| | | | | | 0.00168741 | 1861.38 | 520.1 | -3.57888 |
| | | | | | 8.93769E-07 | 3323.95 | 6879.98 | 2.06982 |
| | | | | | 8.12006E-09 | 5063.25 | 10606.1 | 2.09472 |
| | 0.0092493 | 509.267 | 218.633 | -2.32932 | | | | |
| | | | | | 0.0136614 | 1281.5 | 499.633 | -2.56488 |
| | | | | | 1.79001E-08 | 1706.93 | 4349.25 | 2.548 |
| | | | | | 8.26871E-05 | 1066.95 | 321.6 | -3.31763 |
| | | | | | 0.0205791 | 895.767 | 298.85 | -2.99738 |
| | 0.00037627 | 582.5 | 1276.25 | 2.19099 | | | | |
| | 0.00043834 | 810.675 | 377.275 | -2.14876 | 2.98748E-05 | 1617.23 | 481.975 | -3.35543 |
| | 1.63742E-05 | 1067.18 | 3315.2 | 3.10652 | 1.45794E-07 | 699.8 | 2912.4 | 4.16176 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00066601 | 3920.65 | 913.4 | -4.29237 |
| | | | | | 0.00238973 | 3198.68 | 786.55 | -4.06672 |
| | 0.00048696 | 2142.9 | 967.2 | -2.21557 | 0.00118521 | 4127.55 | 1574.48 | -2.62154 |
| | | | | | 2.17686E-08 | #DIV/0! | 3884.53 | #DIV/0! |
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| | 0.00230136 | #DIV/0! | 1196.13 | #DIV/0! | | | | |
| -2.3988 | | | | | 1.00861E-05 | 8774.98 | 1756.25 | -4.99643 |
| | 0.00844316 | 3133.9 | 1087.23 | -2.88248 | 2.68784E-15 | 3275.7 | 10521.8 | 3.21208 |
| | 7.0909E-13 | 4865.18 | 12647.9 | 2.59968 | 3.02819E-10 | 15283.1 | 57649.6 | 3.77212 |
| | | | | | 9.39424E-10 | 2138.1 | 9225.53 | 4.31482 |
| | | | | | 3.61E-14 | 5913.55 | 14567.4 | 2.46339 |
| | | | | | 0.00261325 | 994.85 | 206.6 | -4.81534 |
| | 0.00087944 | 651.267 | 142.7 | -4.56389 | 0.00707151 | 1634.63 | #DIV/0! | #DIV/0! |
| | 0.00150493 | 1373.43 | 3640.83 | 2.65091 | | | | |
| | | | | | 0.000411938 | 1553.43 | 624.933 | -2.48575 |
| -2.3284 | 6.17753E-07 | 935.35 | 433.567 | -2.15734 | | | | |
| | | | | | 5.37283E-09 | 3788.33 | 7958.55 | 2.10081 |
| | 5.64266E-05 | 2530.05 | 6167.53 | 2.43771 | | | | |
| | 1.81949E-05 | 1846.2 | 904.725 | -2.04062 | 2.01208E-09 | 2903.85 | 927.2 | -3.13185 |
| | | | | | 0.000152531 | 645.775 | 269.667 | -2.39472 |
| | | | | | 0.00102193 | #DIV/0! | 1322.73 | #DIV/0! |
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| | | | | | 1.35346E-05 | 1151.23 | #DIV/0! | #DIV/0! |
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| -2.5881 | 0.000917714 | 1936.53 | 494.533 | -3.91586 | | | | |
| | 0.00365166 | 620.075 | 292.2 | -2.12209 | 0.000833499 | 1043 | 462.25 | -2.25635 |
| | | | | | 1.28275E-10 | #DIV/0! | 5380.53 | #DIV/0! |
| | 0.000371619 | 1581.35 | #DIV/0! | #DIV/0! | | | | |
| | 1.40015E-05 | 2403.8 | 1111.2 | -2.16325 | 8.73881E-05 | 2446.77 | 1223.33 | -2.0001 |
| -2.3893 | 0.000189001 | 1776.8 | 629.2 | -2.8239 | | | | |
| | 4.52291E-06 | 1659.58 | 616.267 | -2.69295 | | | | |
| | 2.35965E-08 | 1861.2 | 778.3 | -2.39137 | | | | |
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| | 1.11739E-05 | 580.075 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.00893496 | 707.875 | 297.95 | -2.37582 |
| | 3.90417E-05 | 1685.18 | 560.567 | -3.0062 | 0.00184688 | 1627 | 776.15 | -2.09624 |
| | | | | | 6.53906E-07 | 3016.7 | 7410.35 | 2.45644 |
| | 0.000035095 | 1416.05 | 627.475 | -2.25674 | 0.000123625 | 1839.23 | 773.3 | -2.37841 |
| | | | | | 1.54687E-05 | 955.95 | 283.567 | -3.37116 |
| | 0.00496546 | 1124.48 | 456.2 | -2.46487 | | | | |
| | | | | | 3.84408E-06 | 1344.33 | 2877.28 | 2.1403 |
| | 0.000011214 | 605.925 | 258.367 | -2.34521 | 0.000234499 | 831.367 | 352.45 | -2.35882 |
| | | | | | 2.87943E-05 | 1286.65 | 375.8 | -3.42376 |
| | | | | | 0.000284248 | 1794.95 | 892.625 | -2.01087 |
| | 0.000069882 | 2426.87 | 1061.9 | -2.2854 | 1.52709E-06 | #DIV/0! | 5576.78 | #DIV/0! |
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| | 3.89702E-05 | 696.575 | 292.033 | -2.38526 | 1.72759E-07 | 1824.18 | 804.75 | -2.26676 |
| | | | | | | | | |
| | 5.57766E-06 | 1030.85 | 424.867 | -2.42629 | 2.95746E-05 | 1276 | 370.1 | -3.44772 |
| | 0.00125027 | 536.575 | #DIV/0! | #DIV/0! | 9.80235E-11 | 14527.9 | 66651.6 | 4.58782 |
| | | | | | 0.00586741 | 2551.1 | 672.6 | -3.79289 |
| -3.2204 | 4.87318E-09 | 26573.6 | 5222.83 | -5.08797 | 2.17698E-09 | 11705.6 | 2427.65 | -4.82176 |
| | 8.93924E-05 | 12615.5 | 5857.45 | -2.15376 | 0.000000162 | 13151.8 | 4309.13 | -3.05208 |
| -2.0258 | | | | | 1.78706E-06 | 18727.5 | 8364.58 | -2.23891 |
| | | | | | 1.59893E-05 | 14165.7 | 6648.4 | -2.13069 |
| | | | | | 1.71325E-05 | 14380.2 | 7047.38 | -2.0405 |
| | 0.000110986 | 13834.7 | 6601.3 | -2.09575 | | | | |
| | 1.03316E-05 | 9313.9 | 21763.7 | 2.33669 | 4.59738E-06 | 6245.78 | 14376.2 | 2.30175 |
| | 0.000118877 | 868.65 | 359.3 | -2.41762 | | | | |
| | 0.000211222 | 771.825 | 215.6 | -3.57989 | 0.000447793 | 2193.7 | 649.375 | -3.37817 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| -3.0575 | 1.95718E-09 | 4098.7 | 576.6 | -7.10839 | 0.000616016 | 1855.73 | 880.5 | -2.10759 |
| -2.0668 | 6.78477E-06 | 1021.03 | 299.1 | -3.41366 | | | | |
| -2.6652 | 5.29871E-06 | 1311.43 | 606.675 | -2.16166 | | | | |
| | 0.00832113 | 933.2 | 429.3 | -2.17377 | | | | |
| | | | | | 2.08047E-06 | 7464.98 | 15091.6 | 2.02165 |
| | | | | | | | | |
| | | | | | 0.00607466 | 1880.3 | 583.35 | -3.22328 |
| | 6.48577E-06 | 1357.65 | 4007.65 | 2.9519 | 0.00100163 | 1641.38 | 3472.33 | 2.1155 |
| #DIV/0! | 2.26227E-11 | #DIV/0! | 695.55 | #DIV/0! | | | | |
| | | | | | 9.61187E-07 | 2187.85 | 652.633 | -3.35234 |
| | | | | | | | | |
| -2.1451 | 3.81773E-10 | 1794.03 | 498.375 | -3.59975 | 5.30645E-09 | 3000.98 | 868.3 | -3.45615 |
| 2.47609 | | | | | | | | |
| | | | | | 1.6344E-12 | 6697.7 | 14821.2 | 2.21288 |
| | | | | | | | | |
| -3.4929 | 2.90777E-11 | 18497.3 | 4633.75 | -3.99187 | | | | |
| -4.3403 | 2.08057E-06 | 4895.98 | 1759.53 | -2.78255 | | | | |
| #DIV/0! | 0.00209878 | 973.3 | 474.6 | -2.05078 | | | | |
| | | | | | 9.85501E-17 | 6423.23 | 20048.2 | 3.12121 |
| | 0.000190619 | 1270.03 | 443.15 | -2.8659 | | | | |
| | | | | | 0.000107388 | 1424.98 | 517.467 | -2.75375 |
| | | | | | 2.38071E-08 | 49061.4 | 124538 | 2.53842 |
| | | | | | 2.96334E-09 | 42520.6 | 114635 | 2.696 |
| | | | | | 2.74356E-15 | 6461.55 | 20387.4 | 3.15518 |
| | | | | | 1.28006E-07 | 1546.53 | #DIV/0! | #DIV/0! |
| | | | | | 1.38906E-06 | 3271.85 | #DIV/0! | #DIV/0! |
| | | | | | 3.26389E-05 | 2302.85 | 485 | -4.74814 |
| | | | | | 0.000566869 | 1978.83 | 4022.9 | 2.03297 |
| | | | | | 2.09046E-10 | 1919.7 | 4478.15 | 2.33273 |
| | | | | | 2.28147E-07 | 5191.83 | 11773.7 | 2.26774 |
| | | | | | 0.00953402 | 1527.1 | 443.467 | -3.44355 |
| | 1.41518E-07 | 8126.25 | 3561.33 | -2.28181 | 1.93811E-06 | 13844.6 | 6678 | -2.07316 |
| 2.3816 | 5.17519E-11 | 2683.85 | 10193.5 | 3.79809 | 1.01336E-15 | 2233.33 | 16656 | 7.45793 |
| | | | | | 7.45292E-13 | 29696.8 | 67401 | 2.26964 |
| | | | | | 4.59916E-08 | #DIV/0! | 2270 | #DIV/0! |
| | 0.000638171 | 2336.5 | 4882.9 | 2.08984 | 3.65693E-13 | #DIV/0! | 4321.8 | #DIV/0! |
| | | | | | 6.75314E-16 | 2200.23 | 6099.78 | 2.77234 |
| | | | | | 8.00084E-08 | #DIV/0! | 4160.63 | #DIV/0! |
| | 0.000187522 | #DIV/0! | 2362.03 | #DIV/0! | 0.0142416 | #DIV/0! | 3222.03 | #DIV/0! |
| 2.25642 | | | | | 1.30316E-09 | #DIV/0! | 3274.33 | #DIV/0! |
| | 2.05839E-06 | 2588 | 7916.73 | 3.05901 | 9.86673E-07 | 1549.6 | 5945.08 | 3.83652 |
| | 6.50377E-15 | 1924.78 | 7216.7 | 3.74937 | 7.92164E-16 | 1221.85 | 4839.98 | 3.96119 |
| | | | | | 2.75518E-08 | 95820.1 | 210554 | 2.19738 |
| | | | | | 8.13518E-12 | 4703.98 | 12002.6 | 2.55158 |
| | 3.31484E-07 | 2554.83 | 672 | -3.80182 | 7.06938E-07 | 3219.78 | 930.95 | -3.45859 |
| -2.2724 | | | | | | | | |
| | | | | | 4.44921E-06 | 4144.2 | 762.5 | -5.43502 |
| | 4.97999E-15 | 6941.48 | 17061.1 | 2.45785 | 7.04736E-15 | 4768.95 | 11395.4 | 2.38949 |
| | | | | | 3.35602E-10 | 5144.63 | 14818.3 | 2.88035 |
| | 3.53956E-08 | 9803.53 | 21255.7 | 2.16817 | 2.09788E-11 | 4168.6 | 12500.3 | 2.99869 |
| | | | | | 4.39182E-10 | 1773.65 | 5536.08 | 3.12129 |
| | | | | | 1.62958E-13 | 18105.3 | 67252.6 | 3.71453 |
| | | | | | 0.000159039 | 1949.65 | 4315.95 | 2.21371 |
| | | | | | 1.33867E-12 | 5208.5 | 14260.3 | 2.73789 |
| | | | | | 2.91378E-12 | 8403.18 | 18655.6 | 2.22006 |
| | | | | | 2.81799E-11 | 29430.1 | 81431.7 | 2.76696 |
| | | | | | 7.84668E-18 | 12731.4 | 42910.6 | 3.37046 |
| | | | | | 3.07482E-11 | 2067.45 | 6825.98 | 3.30164 |
| | 0.000630494 | 1888.87 | 804.5 | -2.34788 | | | | |
| | | | | | 2.33733E-09 | 8813.78 | 29534.5 | 3.35095 |
| -2.5523 | 5.83469E-10 | 5976.78 | 1866.7 | -3.20179 | 5.53234E-10 | 5189.03 | 1607.5 | -3.22801 |
| 5.34064 | 1.91754E-07 | 1678.98 | 7926.13 | 4.72081 | 1.61114E-07 | 3848.5 | 8124.13 | 2.11098 |
| 4.56491 | 2.75094E-08 | 2897.43 | 13937.2 | 4.81018 | 1.12608E-10 | 2158.88 | 14385.8 | 6.66355 |
| 4.24929 | 3.42537E-09 | 2446.53 | 15598.5 | 6.37578 | 2.2352E-12 | 1900.95 | 18328.3 | 9.64163 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| #DIV/0! | 0.000025421 | #DIV/0! | 2756.23 | #DIV/0! | 2.97623E-08 | #DIV/0! | 2781.75 | #DIV/0! |
| | 1.34471E-07 | 6373.03 | 12858 | 2.01757 | 1.23721E-13 | 2507.9 | 8549.05 | 3.40885 |
| | 0.00101657 | 1285.95 | 589.267 | -2.18229 | | | | |
| | 8.19312E-06 | 3139.53 | 7592.1 | 2.41823 | 1.08498E-09 | 2801.3 | 5612.1 | 2.00339 |
| | | | | | 1.12228E-09 | 4467.75 | 13129.8 | 2.93878 |
| | 2.5325E-09 | 4550.08 | 9603.6 | 2.11065 | 1.93681E-15 | 2092.1 | 7313.85 | 3.49594 |
| | 2.48209E-07 | 3627.63 | 7314.5 | 2.01633 | 3.19673E-08 | #DIV/0! | 5486.2 | #DIV/0! |
| | | | | | 4.96149E-08 | 5505.3 | 12936.5 | 2.34982 |
| -2.179 | 2.52574E-06 | 1310.75 | 471.767 | -2.77839 | | | | |
| | 5.24489E-06 | 4335.8 | 10688.2 | 2.4651 | 0.000104195 | 4260.75 | 8832.15 | 2.07291 |
| | 8.48101E-06 | 4785.5 | 10391.2 | 2.17139 | | | | |
| | 2.30999E-05 | 4058 | 8823.18 | 2.17427 | | | | |
| | 0.000163141 | 18934.7 | 7612.68 | -2.48726 | 0.000103267 | 11887.6 | 4790.18 | -2.48167 |
| | 6.47948E-05 | 2418.93 | 10913.2 | 4.5116 | 2.66185E-08 | 2885.1 | 7566.05 | 2.62246 |
| | | | | | 0.000950955 | #DIV/0! | 1310.75 | #DIV/0! |
| | | | | | 2.67897E-08 | 4233.75 | 11286.6 | 2.66587 |
| | | | | | 0.000100219 | 2965.43 | 1159.65 | -2.55717 |
| | | | | | 5.67855E-15 | 3013.78 | 14108.5 | 4.68135 |
| | 2.31169E-05 | 27441.5 | 55152.8 | 2.00984 | 6.70896E-16 | 9751.85 | 64826.2 | 6.64758 |
| 2.28223 | 3.01513E-09 | 4790.58 | 14974.7 | 3.12586 | 2.88918E-13 | 2938.93 | 14543.4 | 4.94853 |
| | | | | | 4.42874E-12 | 4403 | 10403.3 | 2.36277 |
| | | | | | 0.0173978 | #DIV/0! | 1670.2 | #DIV/0! |
| | | | | | 2.79529E-06 | 4900.35 | 1596.6 | -3.06924 |
| | 3.00928E-06 | 1703.08 | 737.175 | -2.31027 | 1.77437E-05 | 2285.85 | 1040.75 | -2.19635 |
| | | | | | 0.000171988 | #DIV/0! | 1253.57 | #DIV/0! |
| | | | | | 1.74376E-09 | 5354.63 | 11032.6 | 2.06039 |
| -2.0521 | 6.82273E-07 | 4735.48 | 2064.35 | -2.29393 | | | | |
| | | | | | 3.84438E-06 | 1625.8 | 721.375 | -2.25375 |
| | | | | | 9.58142E-10 | 6550.75 | 17223.5 | 2.62924 |
| | | | | | 3.53378E-07 | 5804.2 | 13187.2 | 2.27201 |
| | | | | | 1.93489E-07 | #DIV/0! | 2458.68 | #DIV/0! |
| | | | | | 1.82902E-08 | 4291.53 | 9364.4 | 2.18207 |
| | | | | | 1.22225E-14 | 2804.98 | 9087.43 | 3.23975 |
| | | | | | 0.0101511 | #DIV/0! | 2780.78 | #DIV/0! |
| -2.3898 | | | | | | | | |
| -2.0997 | 3.82304E-05 | 2650.15 | 1311.05 | -2.0214 | | | | |
| | | | | | 4.96657E-12 | 4670.18 | 10935.4 | 2.34153 |
| | | | | | 3.10679E-13 | 1973.85 | 5463.58 | 2.76798 |
| | 5.8112E-08 | 1800.1 | 5352.43 | 2.9734 | 1.51455E-12 | #DIV/0! | 5251.83 | #DIV/0! |
| | 9.85454E-05 | 3169 | 1360.33 | -2.32959 | | | | |
| -2.2596 | 6.0763E-07 | 19546.4 | 6399.85 | -3.05419 | | | | |
| | 8.02478E-11 | 4826.48 | 12066.1 | 2.49998 | 1.24914E-14 | 3218.28 | 11457.9 | 3.56026 |
| | | | | | 4.30093E-08 | 5045.8 | 12947.4 | 2.56597 |
| | | | | | 8.54464E-09 | 2815.23 | 1238.88 | -2.2724 |
| | | | | | 3.61771E-08 | 2009.63 | 5794.1 | 2.88317 |
| | 2.02175E-09 | 7033.8 | 15361.6 | 2.18396 | 3.3423E-16 | 3937.23 | 14083.7 | 3.57705 |
| | 1.59026E-07 | 6739.65 | 14346.4 | 2.12865 | 7.90141E-12 | 4221.9 | 15151.8 | 3.58885 |
| | 1.69241E-11 | 4705.63 | 13575.8 | 2.885 | 2.95431E-15 | 3308.83 | 12536.3 | 3.78875 |
| | | | | | 4.14018E-07 | #DIV/0! | 3329.75 | #DIV/0! |
| | | | | | 1.32438E-07 | 1208.4 | 354.7 | -3.40682 |
| -2.6845 | 4.74611E-09 | 2523.4 | 879.233 | -2.87 | 9.7872E-16 | 5036.95 | 697.067 | -7.22592 |
| | | | | | 9.32118E-11 | 3296.9 | 7888.88 | 2.39282 |
| 2.83617 | 1.80172E-09 | 793.175 | 3018.93 | 3.80613 | 2.40475E-07 | 1094.05 | 3069.13 | 2.80529 |
| 2.27388 | 2.91717E-10 | 10660.4 | 38403.5 | 3.60246 | 1.99618E-14 | 6801.18 | 38069.7 | 5.59752 |
| | | | | | 0.00105584 | 1672.4 | 639.2 | -2.6164 |
| | | | | | 0.0137621 | 1332.85 | #DIV/0! | #DIV/0! |
| | | | | | 6.59581E-06 | 1524.98 | 267.35 | -5.70404 |
| | 7.98786E-07 | 9641.25 | 22494.8 | 2.33318 | 4.54252E-09 | 4913.68 | 15376.7 | 3.12937 |
| | | | | | 1.56533E-05 | #DIV/0! | 2802.38 | #DIV/0! |
| | | | | | 0.00282084 | 1426.87 | 675.45 | -2.11247 |
| | | | | | 0.000009559 | 1635.07 | 563 | -2.9042 |
| | 0.000481733 | 4831.4 | 16244.6 | 3.36229 | 4.73608E-08 | #DIV/0! | 8578.13 | #DIV/0! |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 1.33397E-05 | 1931.15 | 4853.23 | 2.51313 |
| | 8.06898E-05 | 1432.7 | 687.625 | -2.08355 | | | | |
| | 3.49281E-05 | 602.8 | #DIV/0! | #DIV/0! | | | | |
| | 4.05173E-06 | 881.4 | 318.8 | -2.76474 | | | | |
| | | | | | 0.0190991 | 1879.68 | 927.975 | -2.02557 |
| | 0.00235789 | 828.433 | 402.475 | -2.05835 | | | | |
| | | | | | 0.00792528 | 819.2 | 298.9 | -2.74072 |
| 4.35627 | | | | | 0.00261717 | #DIV/0! | 3150.75 | #DIV/0! |
| 2.99984 | 0.000155267 | #DIV/0! | 993.475 | #DIV/0! | | | | |
| | 0.000371267 | 3538.33 | 1614.28 | -2.1919 | 2.74995E-05 | 6387.83 | 2530.68 | -2.52416 |
| | 0.0000439 | 656.475 | #DIV/0! | #DIV/0! | | | | |
| 2.08142 | 0.00017544 | 1440.43 | 3190.2 | 2.21476 | | | | |
| 3.59267 | 7.35294E-06 | 548 | 2063.63 | 3.76574 | 0.00145911 | #DIV/0! | 2201.8 | #DIV/0! |
| | 0.0108866 | 821.267 | 396.05 | -2.07364 | 1.07663E-05 | 1485 | 538.425 | -2.75804 |
| | 3.62052E-06 | 1128.03 | 468.625 | -2.4071 | 3.51577E-07 | 1602.18 | 622.9 | -2.57212 |
| | 0.00206353 | 839.975 | 1928.7 | 2.29614 | 2.92512E-05 | 736.8 | 2321.75 | 3.15113 |
| | 1.82791E-08 | 12557.7 | 33759 | 2.68832 | 1.70003E-14 | 6754.95 | 34674.4 | 5.13319 |
| | 3.16245E-07 | 6964.23 | 21353.9 | 3.06622 | 1.27608E-12 | 3472.35 | 19944.3 | 5.74373 |
| | | | | | 1.50928E-07 | 3433.08 | 7137.4 | 2.07901 |
| | 0.000130647 | 1666.73 | 720.15 | -2.31441 | 6.14892E-05 | 2802 | 1302.93 | -2.15055 |
| | | | | | 2.6721E-06 | 4253.78 | 17090.5 | 4.01772 |
| | | | | | 0.0019842 | 2096.63 | 963.4 | -2.17628 |
| | | | | | 5.14628E-06 | 2304.03 | 743.65 | -3.09827 |
| | | | | | 4.75927E-07 | 3262.6 | 6746.6 | 2.06786 |
| | | | | | 1.64175E-05 | 2422.68 | 4850.48 | 2.00212 |
| -2.7778 | 4.77148E-10 | 2831.43 | 914.85 | -3.09496 | | | | |
| | 7.87525E-05 | 2478.03 | 1155.1 | -2.14529 | | | | |
| | 5.84849E-07 | 1530.78 | 621.85 | -2.46165 | 2.21399E-06 | 2113.5 | 969.375 | -2.18027 |
| 2.44704 | 1.17499E-06 | 830.9 | 2338.55 | 2.81448 | 4.93074E-06 | 1212.1 | 2671.5 | 2.20403 |
| | 8.38443E-06 | 828.4 | 2287.38 | 2.7612 | 0.00183684 | #DIV/0! | 2482.95 | #DIV/0! |
| | | | | | 9.32437E-11 | 5807.65 | 15776.2 | 2.71645 |
| | | | | | 2.08156E-06 | 2094.7 | 4204.9 | 2.0074 |
| | | | | | 2.36197E-05 | 1997.9 | 5651.43 | 2.82868 |
| | 1.61392E-12 | 5677.03 | 2301.25 | -2.46693 | | | | |
| | 4.32043E-09 | 2783.77 | 867.3 | -3.20969 | 0.000706488 | #DIV/0! | 1512.65 | #DIV/0! |
| #DIV/0! | 5.14944E-07 | #DIV/0! | 1507.23 | #DIV/0! | 1.40198E-06 | #DIV/0! | 1464.5 | #DIV/0! |
| 5.26181 | 1.81428E-05 | 1390.68 | 3379.75 | 2.43029 | | | | |
| 5.5703 | 3.12305E-11 | #DIV/0! | 2554.4 | #DIV/0! | | | | |
| | | | | | 3.11477E-08 | 6090.5 | 12754.5 | 2.09416 |
| | | | | | 1.67066E-08 | 6162.58 | 13046 | 2.11698 |
| | | | | | 0.00462856 | 1163.17 | 512.9 | -2.26782 |
| | | | | | 0.00381117 | 1226.83 | 356.067 | -3.44549 |
| 2.24157 | | | | | 3.81172E-05 | 1628.58 | 763.65 | -2.13262 |
| | | | | | 3.93348E-06 | 1904.83 | 896.675 | -2.12432 |
| | | | | | 6.74925E-05 | 1181.1 | 497.575 | -2.37371 |
| | 1.32098E-05 | 3607.13 | 1751.7 | -2.05921 | | | | |
| | | | | | 2.22545E-06 | 2288.6 | 761.425 | -3.00568 |
| | | | | | 0.0168326 | 1374.33 | 518.967 | -2.6482 |
| | 0.00684323 | 1594.13 | 543.4 | -2.93361 | 0.0118197 | 3027.98 | 1184.8 | -2.55568 |
| | | | | | 7.89596E-16 | 5957.58 | 16799.1 | 2.81978 |
| | | | | | 0.0058279 | 1909.7 | 314.133 | -6.07927 |
| | | | | | 0.00306497 | 1777.28 | 687 | -2.58701 |
| | 9.221E-08 | 1733.85 | 757.375 | -2.28929 | 3.22571E-08 | 2134.03 | 917.55 | -2.32579 |
| -2.5493 | 1.35485E-06 | 6304.25 | 2270.85 | -2.77616 | | | | |
| -2.1401 | 7.05698E-12 | 2522.55 | 743.425 | -3.39315 | 2.60738E-14 | 3353.7 | 785.075 | -4.27182 |
| | 2.40535E-12 | 1605.85 | 602.6 | -2.66487 | 1.89088E-14 | 1734.5 | 560.95 | -3.09208 |
| | 2.72521E-08 | 1101.8 | 515.8 | -2.1361 | 1.4525E-11 | 1567.75 | 521.15 | -3.00825 |
| | | | | | 1.36239E-08 | 813.15 | 2145.6 | 2.63863 |
| | | | | | 0.00660337 | #DIV/0! | 994.675 | #DIV/0! |
| | | | | | 0.000201926 | 1393.8 | 567.633 | -2.45546 |
| | | | | | 1.33664E-07 | 3134.28 | 6555.95 | 2.0917 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 0.000512917 | 2309.85 | 5152.83 | 2.23081 | 6.85292E-07 | 1405.5 | 4105.8 | 2.92124 |
| | | | | | 9.30588E-08 | 1423.63 | 4700.03 | 3.30143 |
| | | | | | 2.41527E-11 | 2999.4 | 6750.23 | 2.25053 |
| | | | | | 3.96268E-09 | 6273.05 | 14244.4 | 2.27072 |
| | | | | | 1.4171E-09 | 3220.03 | 547.85 | -5.87757 |
| | | | | | 4.92832E-15 | 12629.4 | 33529.1 | 2.65485 |
| | 0.00061461 | 678.267 | #DIV/0! | #DIV/0! | 0.00146847 | 1845.88 | 613.5 | -3.00876 |
| | | | | | 3.33435E-11 | 2238.6 | 634.8 | -3.52647 |
| | | | | | 2.21714E-06 | 746.833 | 234.2 | -3.18887 |
| -2.601 | 4.70905E-11 | 8147.73 | 3203.08 | -2.54372 | 2.03458E-13 | 8562.45 | 2850.95 | -3.00337 |
| | | | | | 0.00264666 | #DIV/0! | 990.7 | #DIV/0! |
| | 0.000013961 | 1218.75 | 543.875 | -2.24086 | | | | |
| 7.37397 | 1.75667E-08 | 888.3 | 3876.1 | 4.3635 | 8.49427E-07 | 1470.08 | 4713.13 | 3.20604 |
| 6.67664 | 5.25748E-10 | 1480.1 | 9580.3 | 6.47274 | 6.97224E-09 | 2155.08 | 10170.7 | 4.71941 |
| | 9.5015E-15 | 5991.23 | 17908.9 | 2.98918 | 1.00587E-17 | 4548.18 | 16718.6 | 3.67589 |
| | | | | | 6.01497E-07 | 2380.87 | 4866.33 | 2.04393 |
| | | | | | 2.15902E-10 | #DIV/0! | 5130.2 | #DIV/0! |
| | 1.73049E-07 | 4521.05 | 16811.8 | 3.71856 | 3.31874E-08 | 2504.13 | 8444.75 | 3.37232 |
| | 6.27233E-08 | 6092 | 27756.3 | 4.55618 | 1.20003E-08 | 3800.3 | 16636.4 | 4.37765 |
| 2.3002 | 3.38018E-09 | 1208.67 | 5076.08 | 4.19973 | 1.77995E-06 | #DIV/0! | 2315.1 | #DIV/0! |
| 28.6935 | 5.56878E-07 | 891.9 | 32502.5 | 36.4419 | 3.12673E-10 | 5139.7 | 38004.6 | 7.39432 |
| 14.3922 | 7.09006E-13 | 1996.53 | 45789.7 | 22.9347 | 1.41721E-11 | 4530.95 | 43080.8 | 9.50812 |
| 14.4337 | 9.25945E-11 | 1019.9 | 23174.7 | 22.7225 | 5.15323E-10 | 2359.63 | 24034.2 | 10.1856 |
| 12.9416 | 3.35209E-08 | 5012.53 | 76862.3 | 15.334 | 1.72494E-10 | 7304.25 | 102248 | 13.9984 |
| #DIV/0! | 0.000161827 | #DIV/0! | 2080.63 | #DIV/0! | 0.0133134 | #DIV/0! | 2378.85 | #DIV/0! |
| | | | | | 0.0209993 | 1005.67 | 453.2 | -2.21904 |
| | | | | | 0.00795544 | 684.267 | #DIV/0! | #DIV/0! |
| 17.6678 | 2.31693E-12 | 658.1 | 6299.75 | 9.57263 | 2.04536E-08 | 2582.5 | 8395.93 | 3.25108 |
| 12.0563 | 2.10013E-13 | 899.85 | 6342.68 | 7.04859 | 7.2843E-11 | 1717.1 | 6729.63 | 3.91918 |
| | | | | | 0.000481564 | 1357.18 | 618.967 | -2.19265 |
| | | | | | 0.000115847 | 2785.93 | 1380.6 | -2.01791 |
| | 0.0053539 | #DIV/0! | 1285.1 | #DIV/0! | | | | |
| #DIV/0! | | | | | 0.000175721 | 2001.38 | 631.175 | -3.17087 |
| 2.58134 | 1.2012E-06 | 7904.48 | 25857.6 | 3.27126 | | | | |
| | | | | | 0.0162628 | 1560.68 | 417.033 | -3.74233 |
| | 0.00134153 | 2921.38 | #DIV/0! | #DIV/0! | | | | |
| 3.2326 | 4.3462E-12 | 1350.88 | 9298.6 | 6.88339 | 2.11891E-13 | 2249.1 | 8839.98 | 3.93045 |
| | 0.00551462 | 892.6 | 2756.35 | 3.088 | 0.00152572 | 1397.83 | 3951.93 | 2.8272 |
| | | | | | 0.00508721 | 1445.9 | 4866 | 3.36538 |
| | | | | | 5.90142E-07 | 11750.4 | 36171.8 | 3.07836 |
| | | | | | 2.96451E-17 | 1870.23 | 18338.8 | 9.80565 |
| | | | | | 7.19041E-20 | 2923.6 | 33340.5 | 11.4039 |
| | | | | | 2.38802E-11 | #DIV/0! | 6441.65 | #DIV/0! |
| | 2.5236E-09 | 2789.88 | 905.95 | -3.0795 | | | | |
| | 0.00147383 | 5226.18 | 2572.3 | -2.03171 | | | | |
| -2.2725 | 5.09352E-08 | 3385.8 | 1277.75 | -2.64981 | 5.04918E-10 | 4661.83 | 1345.43 | -3.46495 |
| | | | | | 8.39209E-05 | 1543.63 | 570.9 | -2.70386 |
| | | | | | 1.64731E-05 | 1371.67 | 480.05 | -2.85734 |
| 2.51638 | 2.65886E-11 | 2478.3 | 12738 | 5.13979 | 7.48082E-10 | 1806.1 | 7060.4 | 3.9092 |
| 2.3329 | 0.000303359 | #DIV/0! | 2903.3 | #DIV/0! | 1.39509E-05 | #DIV/0! | 1347 | #DIV/0! |
| | | | | | 1.04537E-10 | 5003.38 | 11258.4 | 2.25016 |
| | | | | | 3.19808E-11 | 10302.1 | 24331.7 | 2.36183 |
| | | | | | 1.72071E-15 | 4189.8 | 13622.5 | 3.25135 |
| | | | | | 9.46209E-12 | 6198.98 | 17382.2 | 2.80404 |
| -3.6376 | 0.000534291 | 1388.55 | 584.175 | -2.37694 | | | | |
| | | | | | | | | |
| -2.1186 | 2.18153E-09 | 1248.23 | 377.867 | -3.30335 | 1.46417E-12 | 1733.48 | 308 | -5.62817 |
| | 1.76889E-12 | 2382 | 7625.3 | 3.20122 | 1.00766E-13 | 1839.68 | 6147.68 | 3.34172 |
| | | | | | 2.38995E-14 | 5073.8 | 27818.8 | 5.48284 |
| | 4.00223E-07 | 9440.03 | 22531.5 | 2.38681 | 7.01684E-14 | 3863.88 | 22233.8 | 5.75428 |
| -3.2966 | 0.000154583 | 1036.45 | 424.7 | -2.44043 | | | | |
| | 2.46657E-07 | 3609.58 | 1655.17 | -2.18079 | | | | |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 2.16222E-06 | 1380.9 | 669.1 | -2.06382 | 6.52473E-10 | 1782.85 | 587.675 | -3.03373 |
| | | | | | 1.71818E-08 | 1607.5 | 659.625 | -2.43699 |
| | 8.1348E-07 | 1894.45 | 870.525 | -2.17622 | 1.07285E-06 | 1255.6 | 571.3 | -2.19779 |
| | | | | | 2.49166E-07 | 1939.78 | 4697.33 | 2.42158 |
| | | | | | 5.20928E-10 | 3612.08 | 13303.6 | 3.68308 |
| | 4.32713E-12 | 1770.63 | 6109.68 | 3.45058 | | | | |
| | | | | | 2.13958E-07 | 1872.9 | 756.9 | -2.47444 |
| | | | | | 6.00827E-19 | 2054.1 | 6016.5 | 2.92902 |
| | 6.57414E-07 | 1870.28 | 593.533 | -3.15109 | 1.6325E-06 | 2385.48 | 929.6 | -2.56613 |
| | | | | | 1.4498E-06 | 1881.23 | 616.7 | -3.05048 |
| | | | | | 3.35229E-05 | 3472 | 1719.8 | -2.01884 |
| | | | | | 0.00214916 | 774.925 | 348.4 | -2.22424 |
| | | | | | 5.0927E-11 | 9452.68 | 24524.2 | 2.59441 |
| | | | | | 1.79646E-10 | 13075.8 | 37309.1 | 2.85329 |
| | | | | | 1.30945E-11 | 4453.68 | 14164.3 | 3.18036 |
| | | | | | 0.000328798 | #DIV/0! | 1080.85 | #DIV/0! |
| -2.2022 | | | | | | | | |
| | 1.15283E-07 | 1950.63 | 4887.23 | 2.50547 | | | | |
| | 1.59721E-08 | 10098.1 | 21080.6 | 2.08758 | 8.79954E-15 | 5521.23 | 18847.6 | 3.41366 |
| | 1.92794E-05 | 3032.03 | 824.9 | -3.67563 | 0.000084171 | 4930.53 | 1966.9 | -2.50675 |
| | 7.66253E-08 | 1072.23 | 4137.43 | 3.85873 | 0.000008124 | 1562.45 | 3966.8 | 2.53883 |
| | 1.09714E-07 | 4200.4 | 10724.2 | 2.55313 | 1.29181E-10 | 2621.08 | 9526.45 | 3.63456 |
| | | | | | 9.21895E-06 | 2380.68 | 4912.7 | 2.06357 |
| | | | | | 1.5093E-10 | 2584.5 | 5501.33 | 2.12858 |
| | | | | | 3.38476E-14 | #DIV/0! | 1635.08 | #DIV/0! |
| -2.5011 | | | | | | | | |
| | 0.00377572 | 906.85 | #DIV/0! | #DIV/0! | | | | |
| | 0.0110177 | 567.533 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 9.97851E-05 | 1439.65 | 481 | -2.99304 |
| | | | | | 2.29602E-08 | 4655.75 | 10686.7 | 2.29537 |
| | | | | | 5.06759E-08 | 4067.55 | 9668.33 | 2.37694 |
| | | | | | 1.57744E-09 | 5796.45 | 15868.8 | 2.73768 |
| | | | | | 0.00138302 | 1729.18 | 824.75 | -2.09661 |
| | 8.71361E-09 | 1464.77 | 379.1 | -3.8638 | 2.04902E-08 | 2379.45 | 700.4 | -3.39727 |
| | | | | | 0.00124308 | #DIV/0! | 501.467 | #DIV/0! |
| | | | | | 3.21396E-06 | 1910.9 | 894.2 | -2.13699 |
| | | | | | 2.73887E-05 | 1211.48 | 476.7 | -2.54138 |
| | | | | | 0.000863108 | #DIV/0! | 728.575 | #DIV/0! |
| | | | | | 4.62056E-05 | #DIV/0! | 1719.65 | #DIV/0! |
| | | | | | 1.61508E-10 | 2809.15 | 8703.53 | 3.09828 |
| | 6.46421E-07 | 6106.35 | 14545.1 | 2.38195 | 8.30535E-12 | 4923.95 | 18588 | 3.77502 |
| | | | | | 5.01942E-05 | 1408.4 | 3030.23 | 2.15154 |
| 3.62724 | | | | | | | | |
| | 3.27215E-05 | 784.15 | 1928.35 | 2.45916 | | | | |
| | 0.000100443 | 716.65 | 335.325 | -2.13718 | | | | |
| | | | | | 7.10542E-05 | #DIV/0! | 918.85 | #DIV/0! |
| | | | | | 0.000402524 | 1968.73 | 588.525 | -3.34518 |
| | | | | | | | | |
| | 2.11755E-06 | 1936.65 | 832.9 | -2.32519 | | | | |
| | 3.27571E-05 | 2704.9 | 1301.48 | -2.07833 | | | | |
| | 9.85546E-05 | 1500.37 | 729.025 | -2.05805 | | | | |
| | 1.43402E-06 | 831.45 | #DIV/0! | #DIV/0! | | | | |
| -2.014 | | | | | | | | |
| -2.3512 | 0.000240808 | 1045.88 | 511.167 | -2.04605 | 0.00813349 | 1294.55 | 634.05 | -2.04172 |
| | | | | | 0.000175781 | 2115 | 549.9 | -3.84615 |
| -2.3733 | | | | | | | | |
| -2.2895 | | | | | | | | |
| | | | | | 0.0024009 | #DIV/0! | 1582.77 | #DIV/0! |
| | | | | | 2.98332E-05 | 1153.27 | 2406.45 | 2.08664 |
| | 7.98219E-05 | 4071.23 | 9355.88 | 2.29805 | 1.40993E-13 | 2522.5 | 11005.4 | 4.36288 |
| | 0.000759633 | 1191.4 | 3610.23 | 3.03024 | 6.41216E-15 | #DIV/0! | 4029.08 | #DIV/0! |
| | 1.78562E-05 | 571.625 | 210.7 | -2.71298 | 9.29257E-05 | 1352.17 | 587.867 | -2.30012 |
| | 4.07097E-06 | 1208.18 | 452.45 | -2.6703 | | | | |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00264683 | 1014.4 | 468 | -2.16752 |
| | | | | | 0.000531416 | #DIV/0! | 1523.75 | #DIV/0! |
| | | | | | 0.00792816 | 865.325 | 403.9 | -2.14242 |
| | | | | | 0.00160534 | 1440.98 | 710.2 | -2.02897 |
| | | | | | 0.00001138 | #DIV/0! | 1308.8 | #DIV/0! |
| | | | | | 3.17309E-05 | 2043.08 | 957.2 | -2.13443 |
| | | | | | 0.0057414 | 1260.63 | 370.333 | -3.40403 |
| | | | | | 2.32951E-10 | 5772.53 | 15458.3 | 2.67791 |
| | | | | | 1.99346E-10 | 8866.85 | 25910.6 | 2.92218 |
| | | | | | 2.26625E-09 | 1078.9 | 3683.3 | 3.41394 |
| | | | | | 5.89902E-12 | 2890.43 | 7568.33 | 2.61841 |
| | | | | | 2.59315E-20 | 2760.1 | 10458.3 | 3.78911 |
| | | | | | 7.76734E-14 | 4183.05 | 16874.1 | 4.03393 |
| | 0.000035274 | 1098.68 | 429.425 | -2.55848 | | | | |
| | | | | | 0.00311634 | 821.367 | 334.8 | -2.45331 |
| | | | | | 0.00376892 | 1422.87 | 409.175 | -3.4774 |
| | | | | | 0.0184213 | 981.167 | 332.6 | -2.94999 |
| | | | | | 3.41772E-06 | 2049.33 | 4653.13 | 2.27056 |
| #DIV/0! | | | | | 0.00214085 | 1178.3 | 551.133 | -2.13796 |
| 2.88495 | 2.4224E-06 | 3960.3 | 13340.9 | 3.36866 | 4.13062E-09 | 4199.85 | 18840.7 | 4.48603 |
| 2.22941 | 9.0292E-08 | 13029.8 | 40489.5 | 3.10746 | 1.74125E-11 | 11952.2 | 60351.8 | 5.04942 |
| 2.00488 | 1.63603E-08 | 14626.4 | 37357.4 | 2.55411 | 4.54934E-15 | 10339.4 | 54675.2 | 5.28807 |
| 2.25408 | | | | | | | | |
| | 0.000365759 | 965.25 | 2086.53 | 2.16164 | 0.000476065 | 945.8 | 1956.05 | 2.06814 |
| | 1.21273E-14 | 10405.9 | 34479.9 | 3.31351 | 9.3794E-15 | 8213 | 26496.5 | 3.22617 |
| 3.04409 | 2.0775E-10 | 2592.88 | 12725.8 | 4.90797 | 2.33691E-08 | 2668.05 | 8683.3 | 3.25455 |
| | | | | | 2.39572E-14 | 8509.88 | 33467.8 | 3.93282 |
| 2.03245 | | | | | | | | |
| | | | | | 0.00755016 | 1750.87 | 483.6 | -3.62049 |
| | | | | | 1.54461E-06 | #DIV/0! | 1718.85 | #DIV/0! |
| | 2.97913E-13 | 1656.55 | 5900.95 | 3.56219 | | | | |
| | 8.73498E-05 | 8686.9 | 1847.05 | -4.70312 | 3.09634E-08 | 10012.1 | 798 | -12.5465 |
| | 6.48119E-05 | 3751.33 | 1037.35 | -3.61626 | 1.94424E-07 | 3974.2 | 564.15 | -7.04458 |
| | 2.01612E-05 | 1742.78 | 504.2 | -3.45652 | 1.46658E-06 | 2466.1 | 676.433 | -3.64574 |
| 7.13241 | 5.52188E-07 | 1482.93 | 11356.7 | 7.65828 | 2.34778E-06 | 3120.23 | 17249 | 5.52813 |
| | 0.00450257 | 1367.63 | 370.633 | -3.68997 | 0.0042645 | 1676.55 | 737.7 | -2.27267 |
| | | | | | 4.83987E-05 | 1472.73 | 413.5 | -3.56161 |
| | 4.50322E-07 | 4064.55 | 1769.88 | -2.29652 | | | | |
| 3.33163 | | | | | 1.74005E-05 | 1374.2 | 3667.3 | 2.66868 |
| #DIV/0! | | | | | | | | |
| | 0.000910325 | 652.35 | 222.467 | -2.93235 | | | | |
| -2.057 | | | | | | | | |
| | | | | | 0.00148766 | 899.325 | 421.25 | -2.1349 |
| | | | | | 0.000495615 | #DIV/0! | 1769.1 | #DIV/0! |
| | 0.00012436 | 3800.35 | 1652.5 | -2.29976 | 0.000322508 | 6267.7 | 2949.63 | -2.12491 |
| | | | | | 5.24974E-06 | #DIV/0! | 1244 | #DIV/0! |
| | 8.46694E-07 | 2685.28 | 5752.33 | 2.14217 | | | | |
| -2.4193 | | | | | | | | |
| -2.2567 | | | | | | | | |
| | | | | | 0.0159485 | #DIV/0! | 1085.07 | #DIV/0! |
| | | | | | 1.15524E-07 | 2621.33 | 598.9 | -4.37691 |
| -3.6797 | 2.10402E-09 | 3464.88 | 823.675 | -4.2066 | 5.70202E-09 | 2822.88 | 718.875 | -3.9268 |
| | | | | | 0.000149876 | 3270.33 | 738.7 | -4.42714 |
| | | | | | 0.000590497 | 2013.8 | 564.15 | -3.56962 |
| 3.30424 | 6.2998E-09 | 1275.03 | 4858.85 | 3.81076 | 4.26442E-05 | 2322.03 | 5078.03 | 2.1869 |
| 5.10895 | 3.39557E-11 | 850.175 | 5646.45 | 6.64151 | 4.73645E-10 | 1486.28 | 7665.53 | 5.15754 |
| | | | | | 0.00309933 | 2136.13 | 407.6 | -5.24076 |
| | | | | | 0.00231688 | #DIV/0! | 1017.43 | #DIV/0! |
| | 1.01806E-06 | 6645.53 | 13493.7 | 2.03049 | 1.77691E-15 | 2106.53 | 8886.58 | 4.21858 |
| | | | | | 1.30401E-05 | 1038.9 | 2544.23 | 2.44896 |
| | 3.22077E-06 | 2703.55 | 5708.43 | 2.11146 | 1.09377E-09 | 1950.5 | 6250.83 | 3.20473 |
| | | | | | 2.07111E-05 | #DIV/0! | 880.225 | #DIV/0! |
| | 0.000944196 | 935.625 | 1874.9 | 2.0039 | 8.00081E-10 | #DIV/0! | 2437.25 | #DIV/0! |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00331322 | 2125.53 | 980 | -2.16891 |
| | | | | | 3.74438E-05 | 1237.43 | 606.533 | -2.04017 |
| | | | | | 1.84188E-12 | 5309.2 | 12413.1 | 2.33803 |
| | | | | | 7.63945E-13 | 4870.23 | 12747.7 | 2.61747 |
| | | | | | 8.16499E-06 | 1890.33 | 810.025 | -2.33366 |
| | 0.00121276 | 778.875 | 306.7 | -2.53953 | | | | |
| -2.1618 | | | | | | | | |
| | | | | | 8.26745E-12 | 13413.7 | 40739.9 | 3.03718 |
| | | | | | 1.08579E-11 | 4505.25 | 16260.5 | 3.60922 |
| | | | | | 6.83161E-11 | 10935.3 | 29910.7 | 2.73523 |
| | | | | | 4.78762E-10 | 13276.7 | 39694.9 | 2.98982 |
| | | | | | 2.14002E-08 | 3187.93 | 7218.38 | 2.26428 |
| | | | | | 5.17184E-12 | 15804.4 | 38868.6 | 2.45936 |
| | | | | | 5.27916E-07 | 2060.28 | 496.75 | -4.14751 |
| | | | | | 6.52585E-07 | 1536.65 | 522.45 | -2.94124 |
| | | | | | 2.88387E-17 | 6044.7 | 18679.8 | 3.09028 |
| | | | | | 2.27577E-11 | 2344.15 | 7670.1 | 3.27202 |
| | | | | | 1.69474E-07 | 18102.7 | 8883.8 | -2.03772 |
| | | | | | 2.76054E-14 | 6373.1 | 24203.4 | 3.79774 |
| | 3.41827E-06 | 5443.5 | 2211.43 | -2.46153 | 2.4879E-09 | 5685.33 | 1618.03 | -3.51374 |
| | 1.52296E-05 | 8198.88 | 4086.75 | -2.00621 | 7.19554E-08 | 8209.88 | 3406.25 | -2.41024 |
| | | | | | 1.74896E-08 | 6437.28 | 2706.85 | -2.37814 |
| | | | | | 9.47798E-11 | 12570.6 | 34038.1 | 2.70776 |
| | | | | | 4.62543E-11 | 9415.1 | 28630.5 | 3.04091 |
| -2.0415 | 2.05232E-07 | 9138.78 | 4526.83 | -2.0188 | | | | |
| -2.1702 | | | | | | | | |
| | | | | | 2.91935E-15 | 5317.48 | 20448.5 | 3.84553 |
| | 0.00306285 | 656.2 | 1697.85 | 2.5874 | 0.00040777 | #DIV/0! | 1173.25 | #DIV/0! |
| | 0.0120849 | 1133.4 | 2932.95 | 2.58774 | 0.0158692 | #DIV/0! | 1743.78 | #DIV/0! |
| | | | | | 0.000577714 | #DIV/0! | 1869.25 | #DIV/0! |
| | | | | | 1.69376E-05 | 1878.98 | 611 | -3.07525 |
| | | | | | 0.00687083 | 1777.08 | 848.5 | -2.09437 |
| -2.3789 | | | | | | | | |
| | 0.0118944 | 998 | 329.6 | -3.02791 | | | | |
| | 0.00435376 | 1663.55 | 643.2 | -2.58637 | | | | |
| 2.49929 | 1.02081E-15 | 6881.65 | 28074.6 | 4.07963 | 3.87227E-12 | 6954.18 | 18567.6 | 2.67 |
| | | | | | 2.67083E-05 | 2337.73 | 564.7 | -4.13976 |
| | | | | | 0.00758172 | 1242.17 | 315.133 | -3.94172 |
| 5.57824 | 1.26926E-08 | 637.1 | 5054.18 | 7.9331 | 4.9305E-07 | 1731.3 | 5621.4 | 3.24692 |
| -2.0333 | 9.42349E-06 | 1140.23 | 437.475 | -2.60638 | 4.67728E-08 | 1196.75 | 373.85 | -3.20115 |
| | | | | | 1.86342E-08 | 1377.47 | 299.5 | -4.59922 |
| -2.4078 | 2.14398E-08 | 3083.2 | 935.5 | -3.29578 | 1.10219E-08 | 2779.98 | 748.175 | -3.71567 |
| -2.4318 | 4.77675E-08 | 2820 | 782.65 | -3.60314 | 2.94202E-08 | 2328.15 | 683.15 | -3.40796 |
| | | | | | 0.000942654 | 1309.9 | 486.75 | -2.69111 |
| | | | | | 0.000628051 | #DIV/0! | 1523.58 | #DIV/0! |
| -2.2868 | 1.30248E-07 | 10031.3 | 4301.38 | -2.33212 | | | | |
| | 3.94199E-07 | 10436.7 | 5037.8 | -2.07168 | | | | |
| -2.243 | | | | | | | | |
| -2.0678 | | | | | | | | |
| | | | | | 5.20573E-05 | #DIV/0! | 2664.95 | #DIV/0! |
| -2.4692 | | | | | | | | |
| | | | | | 0.000119142 | 1084.85 | 521.8 | -2.07905 |
| | | | | | 9.28541E-18 | 13286.6 | 37472.6 | 2.82032 |
| 3.46834 | 5.11511E-07 | 2109.78 | 8142.8 | 3.85956 | | | | |
| -2.6671 | 1.01098E-05 | 2537.35 | 1146.85 | -2.21245 | 7.90108E-07 | 1800.15 | 794.175 | -2.26669 |
| | 0.00315382 | 975.375 | 228.7 | -4.26487 | | | | |
| -2.0345 | 9.11523E-09 | 1450.8 | 340.25 | -4.26392 | 1.0432E-09 | 2356.15 | 510 | -4.6199 |
| | | | | | 2.84278E-13 | 2723.58 | 6332.13 | 2.32493 |
| | | | | | 3.28163E-10 | 3211.83 | 9393.63 | 2.9247 |
| | | | | | 0.0115193 | #DIV/0! | 1720.85 | #DIV/0! |
| | 1.37206E-09 | 3014.55 | 7964.48 | 2.64201 | 7.67652E-11 | 2219.95 | 6786.7 | 3.05714 |
| | 1.23859E-10 | 4853.3 | 12751.9 | 2.62746 | 2.5911E-13 | 3231.03 | 10439.6 | 3.23104 |
| | 2.15215E-06 | 6882.38 | 2692.85 | -2.5558 | 6.82027E-05 | 13500.9 | 5327.95 | -2.53397 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 0.000375534 | 1221.35 | 3019.85 | 2.47255 | 7.53403E-05 | 953.8 | 2720.08 | 2.85183 |
| | | | | | 0.00325228 | #DIV/0! | 1406.47 | #DIV/0! |
| | | | | | 4.42828E-06 | 1793.73 | 551.467 | -3.25264 |
| | 0.000148883 | 1514.78 | 730.05 | -2.07489 | 1.96258E-05 | 1700.38 | 744.825 | -2.28292 |
| | 9.00447E-09 | 6971.6 | 18401 | 2.63943 | 1.11971E-12 | 3299.58 | 12279.3 | 3.72148 |
| | | | | | 0.000119338 | #DIV/0! | 849.7 | #DIV/0! |
| | | | | | 1.81142E-07 | 1729.33 | 4004.6 | 2.3157 |
| -2.4903 | 5.12657E-08 | 1566.4 | 358.05 | -4.37481 | | | | |
| | 1.41265E-07 | 821.125 | 225.6 | -3.63974 | 0.000222636 | 1191.63 | 531.125 | -2.24359 |
| -2.1234 | 2.4683E-07 | 1248.05 | 618.433 | -2.01808 | 4.76485E-08 | 1448.1 | 531.25 | -2.72584 |
| | | | | | 0.000554918 | #DIV/0! | 1285.6 | #DIV/0! |
| | 2.97269E-06 | 23225.1 | 53641.3 | 2.30962 | 1.11829E-10 | 11130.4 | 39835.7 | 3.579 |
| | 0.000140909 | 2444.95 | 6785.75 | 2.77541 | 7.78493E-06 | #DIV/0! | 7595.95 | #DIV/0! |
| -2.4807 | 5.46726E-09 | 4867 | 2067.15 | -2.35445 | | | | |
| | 0.000112202 | 1440 | 3211.13 | 2.22995 | 3.87833E-09 | 818.8 | 3016.88 | 3.68451 |
| 2.17745 | 3.04608E-06 | 2238.73 | 5085.88 | 2.27177 | 7.91661E-13 | 986.167 | 4675.18 | 4.74076 |
| | 3.87477E-12 | 5614.15 | 12107.1 | 2.15652 | | | | |
| | | | | | 9.98117E-08 | 2175.9 | 533.475 | -4.07873 |
| | | | | | 1.78825E-06 | 2548.88 | 722.067 | -3.52997 |
| | | | | | 1.891E-08 | 968.425 | #DIV/0! | #DIV/0! |
| | 0.000264814 | 400.7 | 825.375 | 2.05983 | | | | |
| | 7.45759E-06 | 999.225 | 2144.78 | 2.14644 | | | | |
| | | | | | 3.32539E-09 | 2074.23 | 957.9 | -2.16539 |
| -2.0293 | 3.73182E-05 | 950.85 | 375.067 | -2.53515 | 0.000275739 | 887.425 | 410.7 | -2.16076 |
| | 0.000752642 | 643.2 | #DIV/0! | #DIV/0! | | | | |
| | 1.43314E-05 | 3887.4 | 1471.1 | -2.64251 | 3.08176E-05 | 5566 | 2223.48 | -2.50329 |
| -4.8644 | 0.00422967 | 1870.03 | 913.8 | -2.04644 | | | | |
| | | | | | 8.30013E-06 | 2386.28 | 902.275 | -2.64473 |
| | 1.09067E-06 | 4395.65 | 1585.3 | -2.77276 | | | | |
| 2.54757 | 3.72702E-09 | 4049.25 | 11113.2 | 2.74451 | 1.05088E-08 | 3497.65 | 9260.55 | 2.64765 |
| 2.46335 | 7.49519E-15 | 2879.53 | 9593.93 | 3.33177 | 3.51726E-13 | 2418.05 | 6713.5 | 2.77641 |
| 2.40278 | 1.3498E-08 | 2667.53 | 6826.38 | 2.55907 | 3.17118E-09 | 2426.3 | 6880.15 | 2.83566 |
| 2.64 | 1.10247E-07 | 4122.43 | 10076.3 | 2.44425 | 8.3784E-10 | 2847.13 | 9027.45 | 3.17072 |
| | 0.000503001 | 1198.5 | #DIV/0! | #DIV/0! | | | | |
| -2.474 | | | | | | | | |
| | | | | | 4.27556E-13 | 3324.93 | 8463.8 | 2.54556 |
| | 4.18628E-05 | 3220.6 | 1515.65 | -2.1249 | 3.89991E-06 | 5923.1 | 2533.58 | -2.33784 |
| | | | | | 1.88423E-07 | 4091.15 | 9118.23 | 2.22877 |
| | | | | | 1.55313E-07 | 4142.98 | 10068.5 | 2.43025 |
| | | | | | 0.0129658 | 982.067 | #DIV/0! | #DIV/0! |
| | 1.34241E-07 | 32806.7 | 12933.1 | -2.53665 | 9.41272E-06 | 60098.7 | 29646.6 | -2.02717 |
| | | | | | 1.05813E-06 | 655.7 | 2601.93 | 3.96816 |
| 5.01293 | 4.73046E-12 | 1073.4 | 5681.3 | 5.29281 | 2.08018E-14 | 958.2 | 6260.4 | 6.5335 |
| 5.79361 | 6.86799E-11 | 961.975 | 6938.98 | 7.21326 | 5.39536E-11 | 1138.57 | 8988.23 | 7.89433 |
| | | | | | 0.000187325 | 344.1 | 1289.15 | 3.74644 |
| | 0.00215252 | 665.567 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 0.000687841 | 714.6 | 186.9 | -3.82343 |
| | | | | | 3.28131E-11 | 1161.35 | 4386.8 | 3.77733 |
| -2.4082 | 0.000573452 | 4949.65 | 1719.37 | -2.87876 | | | | |
| | 4.75217E-05 | 977.967 | 318.4 | -3.0715 | | | | |
| | | | | | 0.00848173 | 1004.3 | 410.775 | -2.44489 |
| | 3.21546E-06 | 751.725 | 234.467 | -3.20611 | 3.35042E-05 | 1127.53 | 450.833 | -2.50098 |
| | 9.65568E-05 | 1128.78 | 505.5 | -2.23299 | | | | |
| | 1.54956E-05 | 3213.7 | 1596.3 | -2.01322 | | | | |
| | 1.02778E-07 | 6251.88 | 14160.9 | 2.26507 | 2.73851E-07 | 4423.35 | 9163.48 | 2.07161 |
| | 2.24294E-08 | 9720.3 | 20972.4 | 2.15758 | 6.49595E-11 | 6709.38 | 16120.6 | 2.40269 |
| | | | | | 3.82585E-08 | 1077.1 | 2681.25 | 2.48932 |
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| | | | | | 6.84423E-09 | 8476.68 | 18069.7 | 2.1317 |
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|-------------|-------------|---------|----------|-------------|---------|---------|----------|
| | | | | 0.00242369 | 1044.6 | 393.933 | -2.65172 |
| | | | | 0.00140644 | 916.967 | 348.7 | -2.62967 |
| 2.96948E-05 | 988.125 | 443.55 | -2.22776 | 1.98753E-05 | 1875.9 | 736.55 | -2.54687 |
| | | | | 0.00863507 | 1037.33 | 469.867 | -2.20772 |
| 0.00595611 | 1209.3 | 494.4 | -2.446 | | | | |
| | | | | 0.00419618 | 656.5 | #DIV/0! | #DIV/0! |
| | | | | 3.97867E-05 | #DIV/0! | 2948.8 | #DIV/0! |
| 0.00368869 | 612.125 | #DIV/0! | #DIV/0! | 0.0052194 | 1075.87 | 287.8 | -3.73824 |
| | | | | 0.0136831 | 785.1 | 221.6 | -3.54287 |
| 4.47311E-05 | 1605.23 | 762.65 | -2.1048 | 6.71125E-06 | 2330.6 | 996.425 | -2.33896 |
| | | | | 0.000218765 | 3863.3 | 1761.43 | -2.19328 |
| | | | | 0.000444237 | 3324.28 | 8225.73 | 2.47444 |
| 0.000132993 | 804.975 | 2046.38 | 2.54216 | | | | |
| 3.57459E-08 | 1196.83 | #DIV/0! | #DIV/0! | | | | |
| | | | | 0.000632096 | 1536.6 | 727.025 | -2.11354 |
| | | | | 0.00212273 | 1109.43 | 347.5 | -3.19259 |
| | | | | 1.76523E-05 | 4312.68 | 1601.53 | -2.69286 |
| 0.00625503 | 1131.7 | 265.75 | -4.25851 | 0.00418155 | 2529.33 | 705.4 | -3.58566 |
| 0.000136522 | 612.567 | 155.3 | -3.94441 | | | | |
| 0.000840106 | 2555.48 | 1222.65 | -2.09011 | | | | |
| | | | | 3.54961E-18 | 5744.48 | 29759.7 | 5.18057 |
| 0.000673389 | 549.7 | 246.35 | -2.23138 | 4.72387E-06 | 1058.83 | 375.567 | -2.81927 |
| | | | | 7.36055E-14 | 5885.68 | 16624.8 | 2.82462 |
| 0.000036719 | 1394.28 | 454.1 | -3.07041 | 2.35684E-06 | 2121.6 | 839.333 | -2.52772 |
| 2.86589E-12 | 1490.53 | 6217.33 | 4.17123 | 2.38908E-09 | 1504.33 | 3892.93 | 2.58782 |
| 7.63191E-10 | 662.925 | 2667.8 | 4.02429 | | | | |
| | | | | 0.00066889 | 996.9 | 389.433 | -2.55987 |
| | | | | 6.29139E-08 | 3152.25 | 7586.25 | 2.40661 |
| | | | | 1.2456E-07 | 4453.6 | 11609.5 | 2.60676 |
| | | | | 3.09988E-05 | 1742.93 | 677.15 | -2.57393 |
| | | | | 0.0022429 | 1948.75 | 571 | -3.41287 |
| -2.1748 | 0.000253648 | 3709.13 | 1832.63 | -2.02394 | | | |
| 3.61323 | 6.43637E-11 | 12572 | 58257.5 | 4.6339 | | | |
| 3.30975 | 1.25515E-11 | 5042.88 | 20136.3 | 3.99301 | | | |
| | | | | | | | |
| 2.29132 | | | | | | | |
| | | | | 6.8108E-07 | 3595.5 | 8358.75 | 2.32478 |
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| | | | | 0.000347156 | #DIV/0! | 1679.6 | #DIV/0! |
| | | | | 0.00193997 | 1410.4 | 531.8 | -2.65212 |
| | | | | 6.11181E-07 | 1968.53 | 484.5 | -4.063 |
| | | | | 1.27677E-05 | 1971.28 | 494.05 | -3.99003 |
| | | | | 3.68878E-08 | 2332.38 | 695 | -3.35594 |
| | | | | 1.76461E-14 | 2995.85 | 7190.1 | 2.40002 |
| | | | | 0.00535749 | #DIV/0! | 1878.88 | #DIV/0! |
| | | | | 0.020877 | #DIV/0! | 1090.07 | #DIV/0! |
| | | | | 0.00936519 | 527.567 | 261.9 | -2.01438 |
| 0.000254648 | 867.075 | 380.85 | -2.27668 | | | | |
| 1.35546E-07 | 2327.53 | 1120.48 | -2.07727 | | | | |
| | | | | 1.83158E-11 | 2899.53 | 1155.4 | -2.50955 |
| | | | | 3.25169E-05 | 1326.75 | 629.175 | -2.10871 |
| | | | | | | | |
| 2.21118 | | | | | | | |
| | | | | 8.41762E-11 | 728 | 1674.48 | 2.3001 |
| | | | | 2.99279E-12 | #DIV/0! | 2153.25 | #DIV/0! |
| | | | | 0.00130593 | #DIV/0! | 1732.73 | #DIV/0! |
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| | | | | 0.000478356 | 877.25 | 426.833 | -2.05525 |
| 6.15532E-06 | 3549.6 | 1062.25 | -3.34159 | | | | |
| | | | | 4.74587E-07 | 6498.15 | 1601.65 | -4.05716 |
| | | | | 0.00272784 | 2250 | 1022.2 | -2.20113 |
| | | | | 0.00220724 | 1836.7 | 528.725 | -3.47383 |
| | | | | 0.0100229 | 1210.67 | 402.6 | -3.00712 |
| | | | | 0.00174486 | 1281.1 | #DIV/0! | #DIV/0! |
| 0.00082319 | 869.7 | 414.267 | -2.09937 | 0.00181717 | 2344.13 | 861.325 | -2.72154 |
| | | | | 0.000575161 | 979.25 | 404.425 | -2.42134 |
| | | | | | | | |
| -2.5398 | 8.49945E-07 | 1045.4 | 266.6 | -3.92123 | | | |

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| | | | | | 2.50337E-09 | #DIV/0! | 5695 | #DIV/0! |
| 9.45343 | 1.58026E-13 | 1739.55 | 25029.8 | 14.3887 | 2.8966E-16 | 2305.5 | 51652 | 22.4038 |
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| | | | | | 0.00143725 | #DIV/0! | 655.6 | #DIV/0! |
| | 0.000977497 | 629.4 | 273.5 | -2.30128 | | | | |
| | | | | | 0.000108184 | 2442.18 | 5687.48 | 2.32886 |
| | | | | | 2.06181E-05 | #DIV/0! | 1243.5 | #DIV/0! |
| | | | | | 0.000608626 | 2197.17 | 1061 | -2.07085 |
| | | | | | 0.00350682 | 1235.63 | 598.1 | -2.06592 |
| | | | | | 4.73243E-08 | 1239.67 | 4964.23 | 4.00448 |
| | 0.00467621 | 2850.85 | 6311.53 | 2.21391 | 9.46861E-11 | #DIV/0! | 8314.23 | #DIV/0! |
| | 0.0117308 | 586.425 | 282.6 | -2.07511 | 0.00273582 | 870.233 | 369.1 | -2.35772 |
| | 0.00123591 | 1350.98 | 638.2 | -2.11685 | | | | |
| -2.3166 | | | | | | | | |
| | 8.32511E-05 | 1820.68 | 869.275 | -2.09448 | | | | |
| | 0.000140813 | 1246.95 | 555.1 | -2.24635 | 5.5617E-08 | 2836.98 | 763.675 | -3.7149 |
| | 0.0146189 | 712.6 | 324.2 | -2.19803 | | | | |
| | 0.00582476 | 1096.08 | 534.1 | -2.05219 | | | | |
| | | | | | 0.00750834 | 1118.23 | 513.9 | -2.17596 |
| | 0.0100731 | 1050.05 | 507.775 | -2.06794 | 0.00831832 | 1473.2 | 696.25 | -2.11591 |
| | | | | | 1.26915E-08 | 1550.15 | 436.8 | -3.54888 |
| | 8.57704E-06 | 2238.55 | 1113.63 | -2.01015 | | | | |
| | 1.46043E-07 | 713.45 | 307.65 | -2.31903 | 4.33936E-05 | 905.6 | #DIV/0! | #DIV/0! |
| | | | | | 2.39892E-08 | 1383.33 | 375.7 | -3.68199 |
| -2.157 | | | | | | | | |
| -2.9014 | 9.23136E-07 | 2413.7 | 665.1 | -3.62908 | 5.78253E-10 | 3339.45 | 618.85 | -5.39622 |
| -2.9935 | 2.1614E-09 | 1801.8 | 340.925 | -5.28503 | 3.15431E-06 | 1466.8 | 458.025 | -3.20245 |
| | | | | | 0.00875285 | 802.633 | 235.05 | -3.41473 |
| | | | | | 0.0106081 | 1045.58 | 508.2 | -2.05741 |
| | | | | | 0.00442704 | 1082 | 420.833 | -2.57109 |
| | 0.00177168 | 973.3 | 351.5 | -2.76899 | 0.000220673 | 2300.85 | 707.967 | -3.24994 |
| | | | | | 0.00548928 | 780.4 | 380.9 | -2.04883 |
| | 0.000436217 | 1100.43 | 539.45 | -2.0399 | | | | |
| | 1.83056E-07 | 4556.88 | 1539.4 | -2.96016 | 8.1505E-08 | 9887.53 | 3069.75 | -3.22095 |
| | | | | | 4.49592E-05 | 3402.48 | 1494.93 | -2.27602 |
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| -2.038 | | | | | | | | |
| | | | | | 0.000772789 | #DIV/0! | 902.6 | #DIV/0! |
| | | | | | 0.00382215 | 3041.2 | 1335.95 | -2.27643 |
| | | | | | 0.00146594 | 957.533 | 432.325 | -2.21485 |
| | 0.000175309 | 834.75 | 273.3 | -3.05434 | 0.0124422 | 1422.53 | 614.875 | -2.31352 |
| | | | | | 0.000812251 | #DIV/0! | 1125.13 | #DIV/0! |
| | 7.61373E-06 | 595.3 | #DIV/0! | #DIV/0! | 1.14987E-05 | 1320.05 | 372.767 | -3.54122 |
| | 0.00116406 | 772.2 | #DIV/0! | #DIV/0! | | | | |
| | 4.29984E-06 | 945.125 | 426 | -2.2186 | 8.3037E-06 | 1506.73 | 591.05 | -2.54923 |
| | | | | | 7.02273E-05 | 1044.28 | 438.033 | -2.38401 |
| | | | | | 0.0193187 | #DIV/0! | 632.367 | #DIV/0! |
| | | | | | 0.00980467 | 729.833 | 232.6 | -3.13772 |
| | 0.000220681 | 516.633 | #DIV/0! | #DIV/0! | | | | |
| | 0.00226591 | 1274.67 | 405.6 | -3.14267 | 0.00166333 | #DIV/0! | 1260.93 | #DIV/0! |
| | 2.42734E-08 | 1162.55 | 400.5 | -2.90275 | 0.0071083 | 2616.48 | 1240 | -2.11006 |
| | 1.83004E-09 | 859.45 | 382.2 | -2.24869 | 1.14528E-09 | 2262 | 701 | -3.22682 |
| #DIV/0! | | | | | | | | |
| | | | | | 0.00109271 | 1020.88 | #DIV/0! | #DIV/0! |
| | | | | | 0.00819167 | 1185.9 | 558.133 | -2.12476 |
| | 0.00554138 | 611.2 | 230.167 | -2.65547 | | | | |
| | | | | | 0.0154638 | 519.433 | 163.2 | -3.1828 |
| | 0.00092318 | 610.8 | 293 | -2.08464 | | | | |
| | 3.28862E-05 | 1180.83 | 545.9 | -2.16308 | 0.000126218 | 1546.38 | 725 | -2.13293 |
| | | | | | 0.00429332 | 1140.23 | 414.9 | -2.74821 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00024744 | 1134.33 | 293.1 | -3.8701 |
| | 2.43287E-05 | #DIV/0! | 825.875 | #DIV/0! | 0.000204575 | #DIV/0! | 1390.5 | #DIV/0! |
| 4.35747 | 7.62007E-11 | 2550.58 | 9331.45 | 3.65857 | 6.52229E-08 | 2903.53 | 6982.43 | 2.40481 |
| 4.8358 | 2.38061E-10 | 2395.63 | 11692.8 | 4.8809 | 3.62264E-07 | 3087.6 | 9459.25 | 3.06363 |
| 5.45046 | 5.51149E-07 | 2751.33 | 7403.33 | 2.69082 | | | | |
| 6.25945 | 1.99469E-06 | 974.933 | 3445.23 | 3.53381 | | | | |
| 4.36576 | 1.2017E-10 | 2107.58 | 7772.63 | 3.68795 | | | | |
| 2.65284 | | | | | | | | |
| | 1.54482E-09 | 4558.48 | 2253.05 | -2.02325 | | | | |
| | 0.000212231 | 1328.48 | 645.3 | -2.05869 | | | | |
| 2.59937 | | | | | | | | |
| | 0.0020085 | 387.6 | 958.3 | 2.47239 | 8.85248E-09 | #DIV/0! | 1093.13 | #DIV/0! |
| | 2.61831E-05 | 521.675 | 1065.58 | 2.0426 | | | | |
| | | | | | 0.020875 | 2897.73 | 510.95 | -5.67125 |
| | 0.000287818 | 1656.6 | 516.7 | -3.20612 | 7.89611E-05 | 3688.23 | 1108.1 | -3.32842 |
| | | | | | 0.000195232 | 1250.87 | #DIV/0! | #DIV/0! |
| | | | | | 0.00093835 | 905.9 | #DIV/0! | #DIV/0! |
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| | | | | | 3.63616E-05 | 1074.17 | 318.3 | -3.3747 |
| | 3.86404E-07 | 885.9 | 258.25 | -3.4304 | 1.58823E-05 | 1582.03 | 562.375 | -2.81311 |
| | | | | | 0.0030183 | 32633.2 | 11014.9 | -2.96264 |
| -2.4401 | | | | | | | | |
| -2.3627 | | | | | 0.00184766 | 2171.53 | 4378.48 | 2.01631 |
| -2.3086 | 3.65016E-07 | 1160.18 | 483.7 | -2.39854 | 2.87502E-06 | 1219.75 | 536.95 | -2.27163 |
| | 1.74249E-07 | 1031.5 | 400.533 | -2.57532 | | | | |
| -2.2001 | | | | | | | | |
| -2.8715 | 1.51649E-06 | 1076.58 | 319.75 | -3.36693 | | | | |
| -2.1036 | 0.000001584 | 2453.58 | 1089 | -2.25305 | | | | |
| -2.3227 | | | | | | | | |
| | | | | | 3.98992E-10 | 2038.17 | 6216.23 | 3.04991 |
| | 0.000239489 | 1580.03 | 649.7 | -2.43193 | | | | |
| 2.04611 | | | | | | | | |
| | 0.0108306 | 537.167 | #DIV/0! | #DIV/0! | | | | |
| | | | | | 2.32589E-05 | 842.85 | 283.6 | -2.97197 |
| | | | | | 0.000594739 | 1345.23 | 621.4 | -2.16484 |
| | | | | | 6.5286E-08 | 2972.33 | 1338.18 | -2.22118 |
| | 0.0101702 | 1488.13 | 713.9 | -2.0845 | | | | |
| | 0.00546509 | 1817.7 | 756.2 | -2.40373 | | | | |
| | 0.000424243 | 1773.55 | 636.875 | -2.78477 | 0.00221881 | 1502.2 | 3698.33 | 2.46194 |
| | | | | | 0.000732777 | 2398.77 | 884.3 | -2.71262 |
| | | | | | 0.00829531 | 1164.93 | 349.733 | -3.33092 |
| -2.0157 | 5.48986E-08 | 923.075 | 388.7 | -2.37477 | 1.27518E-10 | 1575.58 | 516.475 | -3.05063 |
| | | | | | 0.00602194 | 1183.77 | 508.625 | -2.32739 |
| | | | | | 0.020112 | 1108.25 | 428.9 | -2.58394 |
| | | | | | 1.12532E-10 | 2439.85 | 5753.63 | 2.35819 |
| -2.4295 | | | | | 9.54387E-05 | 2565.55 | 1023.7 | -2.50615 |
| | 4.60931E-05 | 643.267 | 239.1 | -2.69037 | 0.00014895 | 979.05 | 435.6 | -2.24759 |
| | 0.000179145 | 788.7 | #DIV/0! | #DIV/0! | 0.00994722 | 1523.5 | 458.7 | -3.32134 |
| | | | | | 0.016652 | 1246.85 | 584.6 | -2.13283 |
| | 0.000171258 | 1328.28 | 475.9 | -2.79108 | | | | |
| | | | | | 2.28098E-05 | 858.875 | 323.55 | -2.65454 |
| | 0.000235191 | 979.825 | 476.725 | -2.05533 | 1.04512E-06 | 1602.18 | 607.733 | -2.63631 |
| | 9.42756E-06 | 3418.73 | 1422.43 | -2.40345 | | | | |
| -2.2481 | | | | | 7.92831E-14 | 1961.45 | #DIV/0! | #DIV/0! |
| | 2.42166E-05 | 899.875 | 280.8 | -3.20468 | 3.4709E-06 | 2466.68 | 690.45 | -3.57256 |
| | | | | | 5.86441E-05 | #DIV/0! | 1817.33 | #DIV/0! |
| | | | | | | | | |
| | | | | | 6.10454E-06 | 4163.88 | 9092.85 | 2.18375 |
| | | | | | 1.20077E-06 | 5286.18 | 12468.5 | 2.35869 |
| | | | | | 3.31573E-06 | #DIV/0! | 668.7 | #DIV/0! |

| | | | | | | | |
|-------------|-------------|---------|----------|-------------|-------------|---------|----------|
| 1.53824E-05 | 7290.25 | 3351.2 | -2.17541 | | | | |
| 0.000646675 | 1420.08 | 595.8 | -2.38348 | 3.86226E-05 | 2826.6 | 945.125 | -2.99072 |
| 0.00355694 | #DIV/0! | 1328.13 | #DIV/0! | | | | |
| | | | | 1.71596E-10 | 1670.33 | 3889.55 | 2.32862 |
| | | | | 2.18889E-07 | 3346.93 | 7075 | 2.11388 |
| 0.000102897 | 2141.05 | 4690.48 | 2.19074 | 4.31288E-05 | 1936.6 | 4175.85 | 2.15628 |
| | | | | 1.49605E-19 | 6421.63 | 25278.2 | 3.93641 |
| | | | | 6.86089E-08 | 7733.63 | 16180.1 | 2.09218 |
| 3.29533E-07 | 4575.78 | 9205.35 | 2.01176 | 8.62176E-09 | 2958.83 | 6867.68 | 2.32108 |
| 6.87109E-05 | 2102.55 | 4594.48 | 2.18519 | | | | |
| | | | | 0.00484661 | 1419.53 | 704.3 | -2.01552 |
| | | | | 0.00230459 | #DIV/0! | 2241.03 | #DIV/0! |
| 0.0159146 | 904.333 | 392.6 | -2.30345 | | | | |
| | | | | 8.61902E-12 | 10081.2 | 24484.7 | 2.42874 |
| 3.69004E-10 | 8132.28 | 1070.45 | -7.59706 | 2.06173E-12 | 7666.63 | 738.6 | -10.3799 |
| 2.32285E-06 | 4138.95 | 609.325 | -6.79268 | 6.90168E-09 | 4934.38 | 488.375 | -10.1037 |
| 8.70444E-06 | 8020.08 | 2223.75 | -3.60655 | 7.81163E-11 | 5464.45 | 601.375 | -9.08659 |
| #DIV/0! | 2.3148E-07 | 1041.5 | #DIV/0! | #DIV/0! | | | |
| | | | | 6.92316E-07 | 1957.3 | 219.05 | -8.9354 |
| | | | | 0.00233662 | 2012.6 | 238.4 | -8.44211 |
| | | | | 0.00290908 | 929.95 | 120.3 | -7.73026 |
| 3.08938E-05 | 2628.3 | 510.933 | -5.14412 | 4.33575E-06 | 1726.33 | 249.633 | -6.91544 |
| 1.88442E-05 | 1599.63 | 530 | -3.01816 | 4.09876E-10 | 5392.98 | 839.567 | -6.42352 |
| | | | | 1.28816E-08 | 6057.18 | 958.55 | -6.3191 |
| -2.4156 | 4.38234E-10 | 2126.58 | 165.45 | -12.8533 | 1.9396E-10 | 3431.23 | 543.1 |
| | | | | | 4.34483E-06 | 7086.85 | 1159.78 |
| | | | | | 0.00409931 | 3646.18 | 601.65 |
| | | | | | 8.41057E-05 | 3816.8 | 634.45 |
| | | | | | 3.47742E-08 | 6151.38 | 1041.98 |
| | | | | | 0.00544888 | 3026.77 | 520.05 |
| | | | | | 0.0089617 | 1582.13 | 278.25 |
| 7.44945E-07 | 1629.23 | 304.1 | -5.35753 | 8.72679E-08 | 5021.2 | 885.55 | -5.67015 |
| | | | | 6.59942E-05 | 8978.45 | 1607.78 | -5.58439 |
| 0.0142123 | 614.825 | 231.133 | -2.66004 | 0.000677407 | 1750.75 | 314.2 | -5.57209 |
| | | | | 1.49048E-06 | 3711.25 | 667.375 | -5.56097 |
| 0.000166338 | 2625.7 | 536.625 | -4.89299 | 4.20694E-05 | 5700.33 | 1030.68 | -5.53067 |
| | | | | 0.00144447 | 3907.2 | 706.675 | -5.52899 |
| | | | | 0.00913745 | 1186.23 | 214.7 | -5.52503 |
| 0.000234184 | 615.4 | 231.25 | -2.66119 | 8.01398E-08 | 2109.23 | 383.467 | -5.50043 |
| | | | | 7.22364E-05 | 1689.57 | 307.9 | -5.48739 |
| | | | | 8.73973E-06 | 2277.48 | 416.4 | -5.46944 |
| | | | | 7.17016E-07 | 2114.25 | 387.033 | -5.46271 |
| | | | | 3.12035E-05 | 6994.7 | 1284.63 | -5.44494 |
| | | | | 2.94912E-06 | 2947.85 | 543.75 | -5.42133 |
| | | | | 0.0213831 | 823.533 | 152.1 | -5.41442 |
| | | | | 0.000119496 | 908.4 | 167.9 | -5.41036 |
| | | | | 0.000183779 | 25337.4 | 4685.3 | -5.40786 |
| | | | | 0.0111651 | 1968.05 | 364.775 | -5.39524 |
| 0.013719 | 534.867 | #DIV/0! | #DIV/0! | 0.000767175 | 1089.55 | 202.4 | -5.38315 |
| | | | | 0.00398835 | 2264.23 | 421.1 | -5.37695 |
| | | | | 9.74373E-07 | 2410.13 | 448.6 | -5.37257 |
| | | | | 0.000151295 | 9220.4 | 1716.68 | -5.37108 |
| 0.0135238 | 599.05 | 232.9 | -2.57213 | 0.00199858 | 1797.68 | 335.275 | -5.36179 |
| 0.00108356 | 1009.53 | 499 | -2.02311 | 0.000106998 | 1943.33 | 363.3 | -5.34911 |
| 0.00039088 | 6003.65 | 2519.18 | -2.38318 | 6.62673E-10 | 20051.7 | 3756.68 | -5.33762 |
| 0.00696722 | 752.267 | 183.8 | -4.09285 | 0.00209229 | 1953.13 | 369.4 | -5.28729 |
| | | | | 4.60233E-05 | 3361.73 | 636.4 | -5.28241 |
| 0.000877507 | 837.233 | 254.05 | -3.29555 | 0.0059772 | 1652.43 | 313.3 | -5.27426 |
| | | | | 0.000271941 | 24425.8 | 4655.5 | -5.24665 |
| | | | | 5.13969E-07 | 2979.88 | 568.475 | -5.24188 |
| | | | | 1.18467E-08 | 2330.2 | 444.633 | -5.24072 |
| 1.55234E-07 | 1084.4 | 257.825 | -4.20595 | 4.8801E-09 | 2521.13 | 482.675 | -5.22324 |
| | | | | 0.00127547 | 1005.93 | 192.6 | -5.22291 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.000920641 | 978.7 | 188.4 | -5.1948 |
| | | | | | 3.22964E-05 | 1726.57 | 333.933 | -5.17039 |
| | | | | | 0.0104405 | 2676.63 | 519.833 | -5.14901 |
| | | | | | 0.00218173 | 1919.63 | 374.033 | -5.13223 |
| | | | | | 7.28362E-09 | 2169.05 | 425.2 | -5.10125 |
| -6.2336 | 4.52283E-10 | 9059.8 | 1242.88 | -7.28939 | 4.55264E-09 | 4525.7 | 891.075 | -5.07892 |
| | | | | | 0.000510022 | 4474.8 | 887.133 | -5.04411 |
| | | | | | 0.00120511 | 1450.53 | 288.65 | -5.0252 |
| | 0.00266913 | 700.25 | 288.7 | -2.42553 | 0.000822091 | 2167.85 | 434.033 | -4.99466 |
| | 0.000531443 | 1396.58 | 404.333 | -3.45402 | 0.00093236 | 3925.3 | 788.65 | -4.97724 |
| | | | | | 0.00104207 | 6630.95 | 1333.13 | -4.97399 |
| | 0.00131977 | 887.425 | 340.475 | -2.60643 | 1.14799E-05 | 3364.45 | 678.475 | -4.95884 |
| | 6.38975E-05 | 8682.98 | 2179.48 | -3.98398 | 3.18332E-06 | 23261.7 | 4699.5 | -4.94982 |
| | | | | | 0.00274509 | 2103.2 | 425.525 | -4.9426 |
| -2.3225 | 8.2399E-09 | 2228.5 | 603.325 | -3.6937 | 1.59273E-11 | 4999.83 | 1012.88 | -4.93627 |
| | | | | | 0.000834764 | 3694.23 | 749.1 | -4.93155 |
| | | | | | 0.000012996 | 4053.38 | 822.75 | -4.92662 |
| | 0.00146106 | 1007.58 | 225.1 | -4.47612 | 0.0013293 | 2295.78 | 467.9 | -4.90655 |
| | | | | | 0.0034047 | 2980.88 | 608.3 | -4.90034 |
| | | | | | 4.20084E-05 | 1973.23 | 403.367 | -4.89189 |
| | | | | | 0.0163765 | 1530.47 | 313.1 | -4.88811 |
| | | | | | 3.54565E-05 | 2405.38 | 492.9 | -4.88005 |
| -2.1213 | 5.34079E-08 | 2183.05 | 639.875 | -3.41168 | 3.16278E-10 | 3795.98 | 779.55 | -4.86944 |
| | | | | | 0.000525156 | 2163.3 | 444.5 | -4.86682 |
| | 0.00330451 | 940.525 | 399.85 | -2.35219 | 0.000013201 | 2446.65 | 503.525 | -4.85904 |
| | | | | | 0.0157286 | 1126.38 | 231.9 | -4.85716 |
| | | | | | 0.000845119 | 11525.1 | 2380.2 | -4.84205 |
| | | | | | 0.00106652 | 3927.8 | 811.55 | -4.83987 |
| | | | | | 0.000319511 | 2243.85 | 464.3 | -4.83276 |
| | 4.94331E-05 | 1246.18 | 415.325 | -3.00048 | 5.37978E-08 | 2872.23 | 599 | -4.79503 |
| | | | | | 0.00270308 | 2930.63 | 612.5 | -4.78469 |
| | 9.31598E-05 | 600.15 | 186.25 | -3.22228 | 1.78311E-07 | 1163.8 | 244.1 | -4.76772 |
| | | | | | 0.00244307 | 1372.33 | 288.65 | -4.75429 |
| | 7.10774E-05 | 1104.2 | 355.9 | -3.10256 | 1.00999E-05 | 2309 | 485.75 | -4.75347 |
| | | | | | 2.46049E-08 | 2637.07 | 555.15 | -4.75019 |
| | 0.000105481 | 2119.15 | 668.6 | -3.16953 | 7.41209E-07 | 5464.5 | 1151.33 | -4.74627 |
| | | | | | 6.04815E-05 | 6037.48 | 1272.38 | -4.74504 |
| | | | | | 0.00241928 | 1860.83 | 392.4 | -4.74218 |
| | | | | | 0.000814495 | 905.9 | 191.2 | -4.73797 |
| | 1.59654E-05 | 4942.03 | 1478.58 | -3.34242 | 1.36269E-07 | 14885.8 | 3141.98 | -4.7377 |
| | | | | | 6.6075E-06 | 6527.53 | 1378.03 | -4.73687 |
| | 2.23351E-05 | 1007.7 | 312.633 | -3.22326 | 0.000413281 | 2864.23 | 605.225 | -4.7325 |
| | | | | | 0.00508633 | 2928.83 | 619.85 | -4.72505 |
| | | | | | 8.13636E-05 | 1366.7 | 289.8 | -4.71601 |
| | | | | | 0.000221918 | 1180.05 | 250.75 | -4.70608 |
| | | | | | 0.0187766 | 3151.45 | 670.175 | -4.70243 |
| | 0.000264679 | 967.4 | 252.1 | -3.83737 | 2.85572E-05 | 3093.68 | 658.775 | -4.6961 |
| | | | | | 2.73196E-08 | 4159.1 | 885.675 | -4.69597 |
| | | | | | 0.00221515 | 4105.65 | 876.95 | -4.68174 |
| | | | | | 0.00193701 | 2811.68 | 602.033 | -4.6703 |
| | | | | | 1.76531E-06 | 3544.78 | 761.1 | -4.65744 |
| | | | | | 0.00488858 | 1806.1 | 388 | -4.6549 |
| | | | | | 0.000746302 | 3857.43 | 834.433 | -4.62281 |
| | | | | | 0.000628999 | 1360.53 | 294.7 | -4.61667 |
| | | | | | 0.000252424 | 2433.1 | 527.325 | -4.61404 |
| | | | | | 0.00600435 | 940.5 | 204.2 | -4.60578 |
| | 4.30757E-05 | 2847.18 | 831.325 | -3.42486 | 1.04698E-06 | 6376.03 | 1385.95 | -4.60047 |
| | 2.66703E-05 | 1092.78 | 296.4 | -3.68683 | 0.000177569 | 1968.6 | 429.6 | -4.5824 |
| | | | | | 0.00116388 | 1933.35 | 422.233 | -4.57887 |
| | | | | | 0.00250439 | 2309.58 | 506.367 | -4.56107 |
| | 1.10206E-07 | 1584.3 | 413.567 | -3.83082 | 8.90284E-08 | 2650.05 | 582.65 | -4.54827 |
| | | | | | 8.31209E-06 | 3230.8 | 712.475 | -4.53462 |
| | 0.0051347 | 854 | 293.85 | -2.90624 | 0.000722103 | 2010.55 | 443.567 | -4.53269 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00691679 | 1238.65 | 273.65 | -4.5264 |
| -2.3209 | 5.12197E-07 | 2364.83 | 569.325 | -4.15373 | 5.16876E-08 | 3547.15 | 785.5 | -4.51579 |
| | | | | | 0.00773817 | 1228 | 272.4 | -4.50808 |
| | 0.0160222 | 521.2 | 146.6 | -3.55525 | 0.000916205 | 1129.83 | 251.25 | -4.49682 |
| | | | | | 0.000832767 | 4358.45 | 969.9 | -4.49371 |
| | | | | | 0.000311502 | 3085.85 | 687.367 | -4.48938 |
| | | | | | 0.00282156 | 6451.58 | 1440.23 | -4.47953 |
| | | | | | 0.0136909 | 1067.45 | 238.45 | -4.47662 |
| | | | | | 1.38424E-05 | 1721.17 | 384.5 | -4.47638 |
| | | | | | 0.00322638 | 2259.98 | 506.6 | -4.46106 |
| | | | | | 0.00352662 | 1278.18 | 287.6 | -4.44428 |
| | | | | | 2.10478E-05 | 1144.5 | 257.8 | -4.43949 |
| | | | | | 0.00255712 | 1805.98 | 407.5 | -4.43184 |
| | | | | | 3.48282E-08 | 1117.9 | 252.333 | -4.43025 |
| | | | | | 0.00291179 | 951.667 | 215.2 | -4.42224 |
| | | | | | 0.00862815 | 1321.4 | 299.1 | -4.41792 |
| | | | | | 6.7918E-06 | 2165.03 | 490.075 | -4.41774 |
| -2.2591 | 9.87826E-08 | 1407.08 | 250.55 | -5.61594 | 2.35156E-06 | 2937.05 | 666.225 | -4.4085 |
| | 0.00566771 | 890.6 | 268.8 | -3.31324 | 0.0040226 | 3059.7 | 694.6 | -4.40498 |
| | | | | | 0.000278867 | 2833.43 | 644.1 | -4.39905 |
| | | | | | 5.59002E-06 | 8765.35 | 2000.85 | -4.38081 |
| | 9.69423E-05 | 711.45 | 266.8 | -2.6666 | 0.000117606 | 1454.9 | 332.2 | -4.37959 |
| | | | | | 0.00037626 | 2523.65 | 577.925 | -4.36674 |
| | | | | | 0.00471217 | 1306 | 299.2 | -4.36497 |
| | | | | | 0.00905289 | 1204.37 | 277.6 | -4.3385 |
| | | | | | 0.0019589 | 1120.3 | 258.35 | -4.33637 |
| | 0.000163595 | 1741.55 | 657 | -2.65076 | 7.37351E-07 | 4337.73 | 1005 | -4.31614 |
| | 0.000511011 | 721.125 | 259.167 | -2.78248 | 2.32821E-05 | 2095.95 | 485.633 | -4.31591 |
| | | | | | 0.0168496 | 2822.53 | 654.2 | -4.31447 |
| | 1.13979E-05 | 718.85 | 292.175 | -2.46034 | 3.66086E-09 | 1437.03 | 333.225 | -4.31248 |
| | | | | | 0.000100594 | 2280.63 | 529.067 | -4.31066 |
| | | | | | 0.00267101 | 3880.35 | 900.667 | -4.30831 |
| | 6.03846E-06 | 6213.13 | 1823.28 | -3.40767 | 4.11664E-08 | 5042.1 | 1171.55 | -4.30379 |
| | | | | | 0.000718676 | 7930.7 | 1846.9 | -4.29406 |
| | 0.00409558 | 1103.53 | 311.575 | -3.54176 | 0.000900394 | 3283.9 | 765.125 | -4.29198 |
| | | | | | 2.70732E-07 | 2728.35 | 636.125 | -4.28902 |
| | | | | | 2.14067E-06 | 1708.73 | 398.7 | -4.28574 |
| | | | | | 0.000395983 | 4377.5 | 1022.1 | -4.28285 |
| | 0.000903637 | 915.225 | 378.3 | -2.41931 | 5.55153E-06 | 2391.75 | 561.75 | -4.25768 |
| | | | | | 0.00291697 | 1129.27 | 265.7 | -4.25016 |
| | | | | | 0.00169873 | 626.367 | 147.65 | -4.24224 |
| | | | | | 4.12343E-05 | 1852.93 | 437.55 | -4.23477 |
| | 7.99669E-09 | 1682.73 | 415.35 | -4.05134 | 5.22413E-10 | 2694.6 | 636.475 | -4.23363 |
| | 1.98676E-07 | 1188.13 | 373.867 | -3.17794 | 1.38709E-08 | 1774.38 | 420.7 | -4.21767 |
| | 9.96232E-06 | 911.025 | 188.8 | -4.82534 | 2.15089E-06 | 1814.35 | 431.15 | -4.20816 |
| | | | | | 9.82404E-07 | 2085.38 | 497.325 | -4.19318 |
| | | | | | 2.27389E-05 | 2064.5 | 492.675 | -4.19039 |
| | | | | | 0.00115958 | 2037.2 | 486.75 | -4.18531 |
| | | | | | 0.000860248 | 5031.05 | 1202.5 | -4.18383 |
| | | | | | 2.00038E-05 | 2087.35 | 499.125 | -4.18202 |
| | | | | | 8.56291E-07 | 971.1 | 232.4 | -4.17857 |
| | | | | | 0.00169904 | 1548.65 | 370.8 | -4.17651 |
| | | | | | 6.55401E-05 | 2357.3 | 564.6 | -4.17517 |
| | | | | | 7.45306E-10 | 1669.58 | 399.975 | -4.1742 |
| | 5.23676E-05 | 1112.28 | 333.35 | -3.33666 | 1.1526E-06 | 2873.93 | 689.333 | -4.16914 |
| | 0.0010132 | 647.167 | #DIV/0! | #DIV/0! | 0.0171063 | 2318.05 | 556.55 | -4.16503 |
| | 0.000122049 | 2153.35 | 667.65 | -3.22527 | 1.11919E-07 | 5437.3 | 1309.05 | -4.15362 |
| | | | | | 0.0205866 | 3194.18 | 770.3 | -4.14666 |
| | | | | | 0.00149335 | 1312.43 | 316.75 | -4.14341 |
| -2.1709 | 3.07255E-08 | 2715.18 | 708.675 | -3.83134 | 1.2729E-08 | 5163.33 | 1250.13 | -4.13025 |
| | 7.83401E-06 | 878.325 | #DIV/0! | #DIV/0! | 2.76031E-06 | 2211.83 | 536.2 | -4.125 |
| | 0.00477528 | 830.133 | #DIV/0! | #DIV/0! | 0.00550124 | 2004.43 | 486.15 | -4.12308 |
| | | | | | 0.00133032 | 2305.25 | 559.3 | -4.12167 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 3.51389E-05 | 2614.45 | 634.35 | -4.12146 |
| | 9.3015E-07 | 1102 | 358.05 | -3.07778 | 1.18207E-08 | 1619.9 | 393.1 | -4.12083 |
| | 1.27446E-05 | 821.875 | 206.5 | -3.98002 | 2.74417E-06 | 1763.3 | 427.9 | -4.12082 |
| -2.8477 | 2.95866E-08 | 2293.35 | 538.267 | -4.26062 | 1.27245E-08 | 4157.13 | 1011.08 | -4.11159 |
| | | | | | 6.93354E-06 | 1470 | 358 | -4.10615 |
| | 6.48312E-08 | 1852.58 | 624.25 | -2.96768 | 3.774E-10 | 4845.28 | 1180.33 | -4.10503 |
| | 0.00272168 | 1502.67 | 703.35 | -2.13644 | 7.76189E-07 | 4367.05 | 1063.9 | -4.10476 |
| | 0.00271143 | 939.9 | 328.9 | -2.85771 | 0.00025334 | 2322.85 | 566.725 | -4.09873 |
| | | | | | 0.000147127 | 1111.9 | 271.633 | -4.09339 |
| | | | | | 0.0156025 | 2263.58 | 553.867 | -4.08686 |
| | 0.0107289 | 771.225 | #DIV/0! | #DIV/0! | 0.0110075 | 2372.6 | 581.367 | -4.08107 |
| | | | | | 0.00407682 | 689.675 | 169.1 | -4.0785 |
| | | | | | 0.00139457 | 12364.8 | 3034.7 | -4.07447 |
| | 0.00476444 | 805.025 | 393.9 | -2.04373 | 0.00270999 | 1889.65 | 464.567 | -4.06755 |
| | 0.0154896 | 748.025 | #DIV/0! | #DIV/0! | 0.00478439 | 1830.9 | 450.5 | -4.06415 |
| | 0.00196659 | 831.45 | 278.067 | -2.99011 | 3.37849E-05 | 2383.23 | 586.433 | -4.06393 |
| | | | | | 0.000193356 | 1408.1 | 346.9 | -4.05909 |
| | | | | | 0.002222 | 2169.78 | 535.967 | -4.04834 |
| | | | | | 0.00150039 | 2129.83 | 526.2 | -4.04757 |
| | 0.011328 | 1246.08 | 429.4 | -2.9019 | 0.00270831 | 3718.68 | 919.425 | -4.04457 |
| | | | | | 0.00129272 | 774.533 | 191.8 | -4.03823 |
| | | | | | 0.00463805 | 1707.48 | 423 | -4.03658 |
| | | | | | 4.76676E-05 | 1536.63 | 380.75 | -4.03578 |
| | | | | | 0.000918897 | 1303.53 | 323.1 | -4.03446 |
| -3.0892 | 2.529E-10 | 2540.98 | 611.167 | -4.15758 | 4.30255E-11 | 2309.08 | 572.9 | -4.0305 |
| | 7.42152E-06 | 595.633 | 211 | -2.82291 | 8.89928E-11 | 1185.07 | 294.1 | -4.02947 |
| | 0.000171302 | 2303.88 | 538.2 | -4.2807 | 7.55111E-05 | 5876.35 | 1458.4 | -4.02931 |
| | | | | | 0.00161124 | 3459.65 | 859 | -4.02753 |
| | | | | | 0.000497478 | 1683.45 | 418.1 | -4.02643 |
| | | | | | 0.00155557 | 1096.68 | 272.7 | -4.02154 |
| | | | | | 7.54008E-05 | 1659.5 | 412.9 | -4.01913 |
| | 0.00341734 | 2243.78 | 886.767 | -2.53029 | 0.000171445 | 4839.43 | 1207.88 | -4.00656 |
| | 0.000212883 | 885.7 | 382.95 | -2.31283 | 3.15338E-06 | 2036.2 | 508.4 | -4.00511 |
| | 0.000361493 | 1051.27 | 333.2 | -3.15506 | 0.000262907 | 2683.93 | 670.133 | -4.00506 |
| | 0.0139661 | 790.125 | 202.9 | -3.89416 | 0.00408713 | 2624.6 | 655.55 | -4.00366 |
| | | | | | 0.0128917 | 1879.03 | 469.875 | -3.99899 |
| | 0.000765417 | 1225.18 | 482.675 | -2.5383 | 2.76045E-06 | 3838.7 | 960.5 | -3.99656 |
| | 2.69144E-05 | 822.275 | 270.067 | -3.04471 | 1.17335E-07 | 2018.7 | 505.667 | -3.99216 |
| | | | | | 7.67454E-06 | 1970.48 | 493.6 | -3.99205 |
| | 4.57317E-05 | 4743.73 | 1686.83 | -2.81222 | 4.17101E-06 | 13028 | 3265.53 | -3.98957 |
| | | | | | 0.0010596 | 5943.23 | 1489.85 | -3.98914 |
| | 0.00147825 | 831.6 | 230.65 | -3.60546 | 6.64929E-05 | 1924.63 | 483.133 | -3.98363 |
| | | | | | 0.00479224 | 2057.55 | 516.625 | -3.98268 |
| | | | | | 1.56741E-05 | 2538.25 | 637.8 | -3.9797 |
| | | | | | 1.7346E-06 | 2174.38 | 547.6 | -3.97074 |
| | | | | | 0.000146344 | 1287.25 | 324.575 | -3.96596 |
| | 0.000165838 | 1606.9 | 527.525 | -3.04611 | 2.7661E-07 | 4411.38 | 1112.47 | -3.9654 |
| | 0.000260492 | 2446.68 | 811.7 | -3.01426 | 4.25657E-05 | 5525.43 | 1393.63 | -3.96479 |
| | 0.00351814 | 998.975 | 393.1 | -2.54127 | 0.00021875 | 2768.85 | 698.375 | -3.9647 |
| | | | | | 6.46043E-05 | 1621.23 | 410 | -3.95421 |
| | | | | | 0.00892633 | 1402.93 | 354.8 | -3.95415 |
| | | | | | 0.000163613 | 1751.87 | 443.1 | -3.95366 |
| | | | | | 5.19628E-06 | 2679.38 | 679.133 | -3.94529 |
| | | | | | 0.0135398 | 1012.83 | 256.8 | -3.94406 |
| | | | | | 3.58718E-05 | 1632.35 | 414.267 | -3.94034 |
| | | | | | 0.000265708 | 4549.83 | 1155.78 | -3.9366 |
| | | | | | 2.53169E-06 | 3219.3 | 818.6 | -3.93269 |
| | | | | | 0.000103058 | 1458.43 | 370.9 | -3.93212 |
| | 0.000322062 | 1093.05 | 390.933 | -2.796 | 2.23127E-07 | 2859.88 | 727.75 | -3.92975 |
| | | | | | 0.000629439 | 2100.83 | 535 | -3.92678 |
| | | | | | 0.00157661 | 1551.93 | 395.65 | -3.92247 |
| | 2.47762E-05 | 1093.25 | 306.333 | -3.56882 | 5.49322E-05 | 2554.58 | 652.2 | -3.91686 |
| | | | | | 0.0167471 | 917.533 | 234.3 | -3.91606 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 6.96576E-05 | 1251.95 | 409.533 | -3.05702 | 7.85504E-06 | 3043.03 | 777.625 | -3.91323 |
| | 0.000886415 | 1022.4 | #DIV/0! | #DIV/0! | 0.00254715 | 2181.18 | 557.4 | -3.91312 |
| | | | | | 0.000174292 | 792.575 | 202.6 | -3.91202 |
| | | | | | 1.64893E-05 | 5579.83 | 1427.43 | -3.90901 |
| -2.4035 | 3.11443E-08 | 2053.05 | 506.333 | -4.05474 | 5.91957E-08 | 2258.15 | 578.175 | -3.90565 |
| | | | | | 0.00173874 | 1065.7 | 272.9 | -3.90509 |
| | 0.00780795 | 710.233 | #DIV/0! | #DIV/0! | 0.00192708 | 2551.7 | 654.2 | -3.90049 |
| | 0.00210508 | 591.533 | 263.3 | -2.24661 | 0.000836021 | 1278.28 | 327.9 | -3.89837 |
| | 0.00306706 | 779.5 | 303.2 | -2.57091 | 1.4945E-06 | 1908.83 | 489.95 | -3.89598 |
| | | | | | 0.000248389 | 2001.58 | 514.233 | -3.89235 |
| | | | | | 0.00252246 | 850.333 | 218.5 | -3.89169 |
| | 0.0129321 | 661.267 | #DIV/0! | #DIV/0! | 0.000532982 | 1568.68 | 403.533 | -3.88735 |
| | 0.00634189 | 655.575 | #DIV/0! | #DIV/0! | 0.00885315 | 1520.53 | 391.233 | -3.88649 |
| | | | | | 0.000131983 | 3471.53 | 893.825 | -3.8839 |
| | | | | | 0.00844987 | 2036.13 | 525.2 | -3.87686 |
| | | | | | 4.85227E-05 | 1008.67 | 260.2 | -3.87651 |
| | 0.00242138 | 1608.57 | #DIV/0! | #DIV/0! | 0.00013771 | 2805.65 | 723.867 | -3.87592 |
| | | | | | 0.00582409 | 1501.78 | 387.467 | -3.87588 |
| | | | | | 0.00878133 | 1009.58 | 260.5 | -3.87553 |
| | 0.000686245 | 965.4 | 323 | -2.98885 | 0.00031361 | 2653.3 | 684.775 | -3.8747 |
| | 4.89928E-05 | 623.5 | 213.7 | -2.91764 | 2.81139E-05 | 1059 | 273.425 | -3.87309 |
| | | | | | 0.00587099 | 2008.08 | 519.75 | -3.86354 |
| | 0.00871097 | 676.75 | 282.667 | -2.39416 | 0.00136629 | 1770.77 | 459.625 | -3.85263 |
| | | | | | 1.10588E-05 | 3263.85 | 847.25 | -3.85229 |
| | 3.89224E-05 | 2534.68 | 738.525 | -3.43208 | 1.28615E-05 | 4877.4 | 1267.78 | -3.84721 |
| | | | | | 0.000176749 | 978.525 | 254.425 | -3.84603 |
| | 0.000076263 | 866.45 | 376.1 | -2.30378 | 1.06259E-08 | 2112.4 | 549.6 | -3.84352 |
| | 0.000103185 | 736.125 | 190.55 | -3.86316 | 2.54549E-05 | 2126.55 | 553.45 | -3.84235 |
| | | | | | 0.000419022 | 1107.6 | 288.3 | -3.84183 |
| | | | | | 0.00987352 | 1953.83 | 508.7 | -3.84084 |
| | | | | | 3.90982E-06 | 2284.13 | 595 | -3.83888 |
| | | | | | 1.56133E-08 | 2066.78 | 538.45 | -3.83838 |
| | 0.000661469 | 2757.35 | 789.175 | -3.49397 | 8.84454E-06 | 6880.88 | 1793.78 | -3.83597 |
| | | | | | 0.00255682 | 936.3 | 244.3 | -3.83258 |
| | | | | | 2.91333E-06 | 2690.13 | 702.125 | -3.8314 |
| | | | | | 0.0090751 | 2783.98 | 727.825 | -3.82506 |
| | | | | | 0.00981104 | 2039.9 | 533.325 | -3.82487 |
| | 1.50616E-05 | 1198.93 | 426.275 | -2.81256 | 2.19095E-06 | 1958.15 | 512.05 | -3.82414 |
| | | | | | 7.99072E-06 | 1093.97 | 286.4 | -3.81972 |
| -2.3645 | | | | | 1.85578E-06 | 3112.65 | 815.075 | -3.81885 |
| -2.5346 | 1.42668E-06 | 1087.8 | 320.4 | -3.39513 | 3.66874E-06 | 1598.15 | 419.233 | -3.81208 |
| | | | | | 0.000300302 | 1523.57 | 399.7 | -3.81178 |
| | | | | | 0.0108995 | 1340.23 | 351.9 | -3.80856 |
| | | | | | 0.00820292 | 4334.8 | 1139.05 | -3.80563 |
| | 0.00301561 | 5012.8 | 1674.95 | -2.99281 | 0.000256661 | 13024.3 | 3423.13 | -3.80478 |
| | | | | | 2.74833E-05 | 1049.53 | 276 | -3.80263 |
| | | | | | 0.000862073 | 1603.85 | 421.9 | -3.80149 |
| | 2.43107E-11 | 2019.08 | 452.8 | -4.45909 | 2.50117E-11 | 4628.45 | 1218.03 | -3.79994 |
| | | | | | 0.0217165 | 1488.03 | 391.6 | -3.79986 |
| | | | | | 0.000396884 | 1556.7 | 409.733 | -3.7993 |
| | | | | | 0.00416704 | 1165.17 | 306.833 | -3.79739 |
| | | | | | 0.017556 | 1801.43 | 475.1 | -3.79169 |
| | | | | | 0.00156689 | 1095.53 | 289.6 | -3.78289 |
| | | | | | 0.00785348 | 1784.6 | 471.8 | -3.78253 |
| | | | | | 0.000122767 | 3285.43 | 868.6 | -3.78244 |
| | | | | | 0.0129251 | 1071.37 | 283.45 | -3.77974 |
| | | | | | 0.0117656 | 1378.73 | 364.8 | -3.77942 |
| | | | | | 3.06351E-07 | 2569.78 | 680.025 | -3.77894 |
| | 3.79499E-06 | 1048.7 | 241.825 | -4.33661 | 3.40358E-06 | 1952.8 | 516.85 | -3.77827 |
| | 0.000187082 | 2268.05 | 672.65 | -3.37181 | 1.99404E-05 | 6485.43 | 1720.2 | -3.77016 |
| | | | | | 1.56472E-05 | 1716.33 | 455.5 | -3.768 |
| | 2.75789E-07 | 870.525 | 245.25 | -3.54954 | 9.40343E-09 | 1052.73 | 279.4 | -3.76781 |
| | | | | | 1.35291E-06 | 1580.25 | 420.033 | -3.7622 |

| | | | | | | | | |
|---------|-------------|---------|---------|-------------|-------------|---------|----------|----------|
| | | | | 0.00974484 | 1597.95 | 424.867 | -3.76106 | |
| | | | | 0.00626874 | 1583.5 | 421.5 | -3.75682 | |
| | | | | 0.000964873 | 816.7 | 217.9 | -3.74805 | |
| | | | | 0.00411191 | 1206.6 | 322.2 | -3.74488 | |
| | 0.0136005 | 948.233 | 252.95 | -3.7487 | 0.00751336 | 1685.9 | 450.533 | -3.74201 |
| | 0.00184605 | 1621.78 | 714.525 | -2.26972 | 2.02554E-05 | 4213.88 | 1126.83 | -3.7396 |
| | | | | | 0.00273281 | 2640.18 | 706.467 | -3.73715 |
| | | | | | 0.00122457 | 2080.5 | 557.8 | -3.72983 |
| | 0.000166946 | 3376.15 | 762.167 | -4.42967 | 0.000202009 | 4366.7 | 1170.83 | -3.72957 |
| | | | | | 5.55533E-05 | 2377.8 | 638.475 | -3.72419 |
| | 1.55826E-06 | 929.625 | 396.425 | -2.34502 | 1.90666E-08 | 1993.83 | 535.45 | -3.72364 |
| | | | | | 0.00165825 | 1567.13 | 421.1 | -3.7215 |
| | | | | | 0.00154499 | 1621.98 | 436.3 | -3.71757 |
| | | | | | 0.0134437 | 1802.25 | 484.875 | -3.71694 |
| | | | | | 6.86451E-05 | 1590.13 | 428.525 | -3.71069 |
| | | | | | 0.0017846 | 1550.6 | 418.5 | -3.70514 |
| -2.8693 | 3.56292E-06 | 1638.5 | 491.725 | -3.33215 | 2.18134E-10 | 1707 | 460.8 | -3.70443 |
| | | | | | 0.00105638 | 847.375 | 228.75 | -3.70437 |
| | | | | | 0.000662038 | 3360.98 | 907.35 | -3.70417 |
| | | | | | 0.00622944 | 1381.03 | 372.867 | -3.7038 |
| | | | | | 0.00906307 | 1563.33 | 422.55 | -3.69974 |
| | | | | | 0.000045545 | 2215.75 | 598.967 | -3.69929 |
| | 0.000808584 | 721.3 | 157.633 | -4.57581 | 0.000266627 | 1250.4 | 338.85 | -3.69013 |
| | | | | | 0.00503912 | 1247.98 | 338.233 | -3.68969 |
| | 0.000383636 | 788.95 | 326.025 | -2.41991 | 4.10794E-06 | 1738.8 | 472.95 | -3.6765 |
| | 7.95756E-07 | 843.45 | 321.05 | -2.62716 | 2.14742E-09 | 1713.83 | 466.35 | -3.67499 |
| | | | | | 5.77641E-05 | 2000 | 544.433 | -3.67354 |
| | | | | | 0.00231912 | 1095.3 | 298.3 | -3.67181 |
| | 0.00691054 | 1057.1 | 447 | -2.36488 | 3.33661E-07 | 2333.45 | 635.9 | -3.66952 |
| | 0.00141088 | 737.825 | 181.55 | -4.06403 | 8.01202E-05 | 1841.25 | 502.275 | -3.66582 |
| | 0.000272349 | 1056.93 | 516.6 | -2.04594 | 2.03841E-06 | 1812.7 | 495.2 | -3.66054 |
| | | | | | 0.00165493 | 1704.88 | 465.867 | -3.65958 |
| | | | | | 2.64871E-07 | 907.575 | 248.233 | -3.65614 |
| | | | | | 0.00602752 | 2989.65 | 819.033 | -3.65022 |
| | 0.000246363 | 740.033 | 328.5 | -2.25277 | 7.77229E-06 | 1738 | 476.15 | -3.65011 |
| | 1.08344E-07 | 867.175 | 301.733 | -2.87398 | 1.82126E-09 | 2008.13 | 550.225 | -3.64964 |
| | 0.00114441 | 1070.8 | 460.05 | -2.32757 | 1.08699E-07 | 2381.3 | 652.9 | -3.64727 |
| | | | | | 0.0223009 | 787.625 | 216.05 | -3.64557 |
| | 4.9279E-07 | 1386.48 | 506.8 | -2.73574 | 1.13327E-08 | 2834.4 | 778.05 | -3.64295 |
| | 0.000352814 | 1133.33 | 458.45 | -2.47208 | 7.48704E-06 | 2295.95 | 631.15 | -3.63772 |
| | 0.00237438 | 2467.1 | 689.275 | -3.57927 | 0.00314371 | 6271.15 | 1724.65 | -3.63619 |
| | | | | | 0.0148297 | 851.133 | 234.1 | -3.63577 |
| | | | | | 0.00339298 | 2045.95 | 562.733 | -3.63574 |
| | | | | | 4.60299E-07 | 3038.33 | 836.567 | -3.6319 |
| | 0.00083683 | 730.267 | 229.3 | -3.18477 | 0.00019303 | 1903.83 | 524.25 | -3.63154 |
| | 0.00763403 | 639.85 | 239.1 | -2.67608 | 9.36782E-05 | 1302.77 | 358.833 | -3.63056 |
| | 1.34157E-07 | 774.975 | 213.8 | -3.62477 | 6.28008E-06 | 935.9 | 258.3 | -3.62331 |
| | 0.0109441 | 573 | 222.15 | -2.57934 | 0.000488884 | 1379.85 | 381.075 | -3.62094 |
| | | | | | 0.0127906 | 1774.7 | 490.467 | -3.61839 |
| | | | | | 0.000414961 | 2239.3 | 619.333 | -3.61566 |
| | | | | | 0.00770386 | 1517.7 | 419.95 | -3.614 |
| | | | | | 0.00154913 | 3740.23 | 1034.98 | -3.61383 |
| | | | | | 7.49644E-06 | 1822.7 | 504.5 | -3.61288 |
| | | | | | 0.00127315 | 780.667 | 216.1 | -3.61253 |
| | 3.67821E-11 | 1522.97 | 427.9 | -3.55916 | 2.2368E-09 | 2448.7 | 678.1 | -3.61112 |
| | | | | | 0.00123049 | 2652 | 734.467 | -3.61078 |
| | | | | | 0.0146101 | 1715.27 | 475.05 | -3.61071 |
| | 0.000197195 | 800.575 | 314.1 | -2.54879 | 1.11221E-06 | 1518.9 | 420.7 | -3.61041 |
| | | | | | 7.6256E-06 | 1092.83 | 302.867 | -3.60827 |
| | | | | | 0.00481838 | 1410.37 | 391 | -3.60708 |
| | | | | | 1.99173E-06 | 3800.33 | 1054.25 | -3.60477 |
| | | | | | 1.70466E-06 | 1607.48 | 446.075 | -3.6036 |
| | | | | | 0.000278252 | 1399.33 | 388.7 | -3.60001 |

| | | | | | | | |
|---------|-------------|---------|----------|-------------|---------|---------|----------|
| | | | | 0.00607401 | 1085.55 | 301.633 | -3.59891 |
| | | | | 5.74998E-05 | 7991.5 | 2222.38 | -3.59593 |
| | | | | 1.74487E-06 | 2532.35 | 704.725 | -3.59339 |
| | | | | 9.58882E-05 | 2417.75 | 672.9 | -3.59303 |
| | | | | 0.0137326 | 1276.83 | 355.5 | -3.59165 |
| | | | | 0.0125151 | 1007.53 | 280.9 | -3.5868 |
| | | | | 0.000935283 | 1833.15 | 512 | -3.58037 |
| | 0.00795037 | 715.167 | #DIV/0! | 4.24721E-05 | 1690.58 | 472.3 | -3.57945 |
| | | | | 0.0125737 | 2466.55 | 689.4 | -3.57782 |
| | 0.0023293 | 1027.93 | 433.5 | 0.000406152 | 2820.5 | 788.525 | -3.57693 |
| | | | -2.37122 | 1.27427E-05 | 2502.4 | 699.8 | -3.57588 |
| -2.0313 | 5.77504E-09 | 3275.85 | 1295.15 | 1.19277E-12 | 3955.05 | 1106.1 | -3.57567 |
| | | | | 1.46398E-09 | 1250.33 | 349.875 | -3.57363 |
| | | | | 0.00191361 | 196198 | 54924.3 | -3.57215 |
| | 0.00473577 | 574.433 | #DIV/0! | 0.00653513 | 1508.57 | 422.7 | -3.56888 |
| | | | #DIV/0! | 2.33449E-06 | 2418.9 | 678.067 | -3.56735 |
| | | | | 2.62877E-05 | 2015.85 | 565.133 | -3.56703 |
| | | | | 0.00292056 | 1858.23 | 521.15 | -3.56564 |
| | | | | 0.0138095 | 833.567 | 233.833 | -3.56479 |
| | 1.20792E-05 | 1205.48 | 356.175 | 1.09056E-06 | 1940.58 | 544.675 | -3.56281 |
| | | | -3.3845 | 0.00231673 | 1098.8 | 308.667 | -3.55983 |
| | 0.000824952 | 702.9 | #DIV/0! | 0.00158584 | 1502.07 | 422.1 | -3.55856 |
| | | | #DIV/0! | 0.00667628 | 1273.1 | 358.1 | -3.55515 |
| | | | | 4.17171E-05 | 1383.33 | 389.4 | -3.55245 |
| | 0.000100141 | 2777.58 | 823.175 | 4.77812E-05 | 6865.83 | 1933.35 | -3.55126 |
| | | | -3.37422 | 3.12185E-05 | 1240.87 | 349.55 | -3.5499 |
| | | | | 4.28564E-05 | 1703.77 | 480.1 | -3.54877 |
| | | | | 0.00126052 | 900.025 | 253.8 | -3.5462 |
| | 0.000212617 | 758.875 | 245.7 | 1.14082E-05 | 1678.88 | 474.4 | -3.53894 |
| | 4.23107E-05 | 1594.1 | 348.9 | 1.71618E-05 | 2063.33 | 583.233 | -3.53774 |
| | | | -3.08862 | 0.00262203 | 4653.23 | 1316.8 | -3.53374 |
| | | | -4.56893 | 0.00184716 | 632.425 | 179.05 | -3.53211 |
| | | | | 0.00525593 | 1448.8 | 410.5 | -3.52935 |
| | | | | 0.000195309 | 923.233 | 261.6 | -3.52918 |
| | 0.000729016 | 920.967 | #DIV/0! | 0.00301258 | 2188.87 | 620.8 | -3.52588 |
| | | | #DIV/0! | 0.000311637 | 1139.2 | 323.1 | -3.52584 |
| | 0.00582953 | 803.425 | 368.7 | 4.64852E-05 | 2081.63 | 590.775 | -3.52355 |
| | | | -2.17908 | 0.0109842 | 1119.9 | 318.05 | -3.52114 |
| | | | | 0.000243285 | 1073.65 | 305.333 | -3.51632 |
| | | | | 0.0032284 | 1219.65 | 347 | -3.51484 |
| | 0.000742352 | 1505.83 | 420.4 | 0.00203812 | 1502.13 | 427.4 | -3.51456 |
| | 0.00054878 | 674.4 | 321.667 | 3.55947E-07 | 1547.78 | 440.6 | -3.51288 |
| | | | -2.09658 | 0.0110903 | 1258.25 | 358.95 | -3.50536 |
| | 0.000140461 | 1327.95 | 505.975 | 1.82225E-06 | 3593.4 | 1025.55 | -3.50388 |
| | | | -2.62454 | 0.0010264 | 4740.3 | 1353.18 | -3.50309 |
| | | | | 0.00017909 | 1979.25 | 565.033 | -3.50289 |
| | | | | 1.20193E-06 | 1564.28 | 447 | -3.4995 |
| | | | | 3.80749E-05 | 1865.5 | 533.275 | -3.4982 |
| | | | | 0.00527774 | 1286 | 367.65 | -3.49789 |
| | | | | 4.79696E-06 | 1406.63 | 402.75 | -3.49255 |
| | | | | 0.0170803 | 1480.68 | 424.05 | -3.49175 |
| | | | | 0.00263711 | 2016.63 | 577.6 | -3.4914 |
| | | | | 0.000357536 | 1981.58 | 567.85 | -3.48961 |
| | | | | 0.000405388 | 2387.7 | 685.175 | -3.4848 |
| -2.6966 | 8.98066E-08 | 1786.6 | 573.925 | 8.88471E-09 | 2127.78 | 610.775 | -3.48373 |
| | | | -3.11295 | 0.000135236 | 1548.78 | 444.8 | -3.48196 |
| | | | | 0.00305699 | 1569.43 | 450.733 | -3.48194 |
| | | | | 9.10197E-07 | 2517.83 | 723.333 | -3.48086 |
| | 2.79798E-05 | 1519.38 | 447.925 | 3.04023E-05 | 2069.3 | 595.1 | -3.47723 |
| | 0.000180779 | 674.75 | 135.7 | 0.00283978 | 1218.58 | 350.567 | -3.47602 |
| | | | -4.97237 | 0.017387 | 1045.13 | 301.05 | -3.4716 |
| | | | | 0.00868503 | 990.5 | 285.4 | -3.47057 |
| | | | | 0.017361 | 1481.85 | 427.9 | -3.46308 |

| | | | | | | | | |
|-------------|-------------|---------|----------|-------------|-------------|---------|----------|----------|
| | | | | 0.00966894 | 1654.23 | 478.2 | -3.45929 | |
| 0.000141748 | 2999.6 | 1150.08 | -2.60818 | 3.28294E-06 | 5840.48 | 1689.1 | -3.45774 | |
| | | | | 0.00414668 | 1215.78 | 352.75 | -3.44656 | |
| 0.000829398 | 882.575 | 346.6 | -2.54638 | 0.00011241 | 1928.1 | 559.525 | -3.44596 | |
| | | | | 0.0193155 | 2649.35 | 769.1 | -3.44474 | |
| | | | | 0.00283428 | 1039.7 | 302.1 | -3.44158 | |
| | | | | 0.000032693 | 1324.53 | 385 | -3.44035 | |
| | | | | 1.00925E-06 | 7290.53 | 2119.28 | -3.4401 | |
| 0.000019474 | 1367.9 | 543.65 | -2.51614 | 1.93934E-07 | 3011.58 | 875.9 | -3.43826 | |
| | | | | 0.0186198 | 1310.18 | 381.15 | -3.43743 | |
| | | | | 0.00551307 | 1205.03 | 350.8 | -3.4351 | |
| | | | | 0.00043238 | 3230.58 | 940.675 | -3.43432 | |
| | | | | 0.0195014 | 1328.8 | 387.3 | -3.43093 | |
| | | | | 0.000664076 | 2089.18 | 609 | -3.4305 | |
| | | | | 4.28519E-05 | 618.767 | 180.567 | -3.4268 | |
| | | | | 0.00200379 | 2799.58 | 817.8 | -3.4233 | |
| 0.000299305 | 1157.67 | 337.6 | -3.42911 | 3.74246E-05 | 1427.23 | 416.967 | -3.42288 | |
| | | | | 1.83916E-05 | 558.333 | 163.2 | -3.42116 | |
| | | | | 2.58243E-07 | 3352.93 | 980.333 | -3.42019 | |
| | | | | 0.000553982 | 2697.6 | 790.475 | -3.41263 | |
| 2.12846E-05 | 1172.08 | 499.425 | -2.34685 | 1.98666E-08 | 2466.48 | 722.925 | -3.4118 | |
| | | | | 1.05394E-05 | 1565.6 | 459 | -3.41089 | |
| | | | | 0.000236681 | 1325.18 | 388.867 | -3.40779 | |
| 0.00451642 | 1008.1 | 319.3 | -3.15722 | 0.00783752 | 1773.45 | 520.425 | -3.4077 | |
| | | | | 0.0011499 | 934.533 | 274.267 | -3.40739 | |
| 0.00463834 | 798.367 | #DIV/0! | #DIV/0! | 0.0149642 | 2504.87 | 735.15 | -3.40729 | |
| | | | | 0.0154047 | 1633 | 479.425 | -3.40616 | |
| 0.00412497 | 1011.3 | 493.7 | -2.04841 | 0.0119576 | 2001.03 | 587.525 | -3.40586 | |
| -5.7014 | 3.65082E-06 | 2203.45 | 388.075 | -5.6779 | 2.23649E-05 | 1522.85 | 447.3 | -3.40454 |
| | | | | 2.85745E-07 | 2235.45 | 656.767 | -3.40372 | |
| | | | | 0.0156005 | 1576.87 | 463.35 | -3.40319 | |
| | | | | 4.64882E-07 | 1410.55 | 414.5 | -3.40302 | |
| | | | | 1.47571E-05 | 2689.25 | 790.95 | -3.40003 | |
| 9.73607E-05 | 3357.15 | 1059.48 | -3.16869 | 3.66897E-05 | 6806.53 | 2004.25 | -3.39605 | |
| | | | | 8.90485E-05 | 2647.85 | 779.8 | -3.39555 | |
| 0.0100806 | 979.025 | 357.7 | -2.737 | 0.00060532 | 2723.13 | 802.233 | -3.39443 | |
| 9.14279E-07 | 1143.93 | 376.6 | -3.03751 | 6.80571E-07 | 2574.38 | 758.925 | -3.39213 | |
| | | | | 0.000795938 | 3577.95 | 1055.85 | -3.38869 | |
| 0.00190178 | 1691.8 | 529.1 | -3.19751 | 0.000799958 | 3762.88 | 1110.78 | -3.38761 | |
| | | | | 0.00145796 | 1551.68 | 458.1 | -3.3872 | |
| 0.000226511 | 1430.05 | 321.15 | -4.4529 | 0.000143166 | 3169.2 | 935.9 | -3.38626 | |
| | | | | 0.00975142 | 1660.2 | 490.4 | -3.3854 | |
| | | | | 0.000671964 | 2480.55 | 733.2 | -3.38318 | |
| | | | | 2.53967E-06 | 3343.55 | 989.625 | -3.3786 | |
| | | | | 0.00075214 | 1643.83 | 486.767 | -3.37703 | |
| | | | | 0.00230933 | 1794.2 | 532.567 | -3.36897 | |
| | | | | 0.000624927 | 1151.3 | 343.35 | -3.35314 | |
| | | | | 5.55538E-06 | 1156.05 | 344.975 | -3.35111 | |
| | | | | 0.000156499 | 1736.03 | 518.45 | -3.34849 | |
| 0.000440199 | 573.025 | 272.5 | -2.10284 | 0.000426774 | 1391.68 | 415.975 | -3.34557 | |
| | | | | 0.00162157 | 1597.8 | 478.3 | -3.34058 | |
| | | | | 0.000725233 | 1025.77 | 307.1 | -3.34017 | |
| | | | | 0.000276174 | 1232.18 | 369.067 | -3.33862 | |
| | | | | 0.000483579 | 1672.2 | 500.9 | -3.33839 | |
| 0.000531705 | 820.85 | 321.833 | -2.55054 | 0.000168968 | 1618.35 | 485.067 | -3.33635 | |
| 0.015387 | 959.733 | #DIV/0! | #DIV/0! | 0.0113444 | 2176.83 | 652.7 | -3.33511 | |
| | | | | 0.00273874 | 1809.2 | 542.967 | -3.33206 | |
| 0.00666001 | 601.6 | 163.3 | -3.68402 | 0.0109421 | 1406.03 | 422.6 | -3.3271 | |
| | | | | 0.00111743 | 2045.7 | 615.3 | -3.32472 | |
| | | | | 0.00116395 | 1843.28 | 554.825 | -3.32226 | |
| 0.00307961 | 772.233 | 242.967 | -3.17835 | 2.60084E-06 | 1578.93 | 475.4 | -3.32126 | |
| | | | | 0.0102647 | 2095 | 630.9 | -3.32065 | |
| | | | | 0.00839052 | 2501.55 | 753.367 | -3.32049 | |

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|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | 0.00290656 | 1370.53 | 413.5 | -3.31445 |
| | | | | 0.0122605 | 963.033 | 290.7 | -3.31281 |
| | | | | 5.92202E-05 | 1589.6 | 479.9 | -3.31236 |
| 0.000594719 | 869.975 | #DIV/0! | #DIV/0! | 1.85189E-05 | 2005.33 | 605.8 | -3.31022 |
| | | | | 1.64046E-05 | 3089.78 | 933.6 | -3.30953 |
| | | | | 0.00537853 | 824.2 | 249.05 | -3.30938 |
| | | | | 0.0133203 | 883 | 266.933 | -3.30794 |
| | | | | 0.00700768 | 1241.07 | 375.3 | -3.30687 |
| | | | | 0.00959324 | 992 | 300.1 | -3.30556 |
| 0.00411845 | 853.7 | 375.35 | -2.27441 | 7.16173E-05 | 2253.58 | 681.8 | -3.30533 |
| | | | | 2.91774E-05 | 1259.85 | 381.8 | -3.29976 |
| 3.62381E-05 | 935.875 | 356.275 | -2.62683 | 1.22009E-05 | 2310.05 | 700.1 | -3.2996 |
| | | | | 0.0132081 | 1999.4 | 605.967 | -3.29952 |
| | | | | 0.0123708 | 1412.65 | 428.5 | -3.29673 |
| 1.54177E-07 | 1643.3 | 481.3 | -3.41429 | 5.12055E-08 | 1839.48 | 558 | -3.29655 |
| | | | | 0.00287447 | 1225.25 | 372.133 | -3.2925 |
| 0.000909069 | 573.65 | 239.5 | -2.3952 | 0.000499872 | 1183.4 | 359.425 | -3.29248 |
| 0.000427468 | 594.525 | 151.3 | -3.92944 | 6.40569E-05 | 1373.1 | 417.167 | -3.29149 |
| 0.0102481 | 609.15 | 200.325 | -3.04081 | 0.0100591 | 1398.28 | 424.925 | -3.29064 |
| 0.000140254 | 1377.98 | 382.475 | -3.60278 | 0.000332624 | 2311.43 | 702.825 | -3.28876 |
| | | | | 0.000245997 | 1575.68 | 479.125 | -3.28865 |
| | | | | 0.0027508 | 2381.63 | 724.433 | -3.28757 |
| | | | | 0.000343503 | 2428.68 | 739.033 | -3.28629 |
| | | | | 0.0206996 | 674.6 | 205.3 | -3.28592 |
| 0.010732 | 663.8 | 247.85 | -2.67823 | 0.00392732 | 1463.25 | 445.625 | -3.28359 |
| | | | | 0.000144396 | 1457.5 | 443.9 | -3.2834 |
| | | | | 2.31813E-05 | 1598.65 | 487.25 | -3.28096 |
| | | | | 0.000144805 | 741.025 | 226.2 | -3.27597 |
| | | | | 0.00832965 | 1480.73 | 452.45 | -3.27268 |
| 0.00102823 | 1430.27 | #DIV/0! | #DIV/0! | 4.99103E-05 | 2884.93 | 881.8 | -3.27163 |
| 0.0029558 | 597.725 | 259.3 | -2.30515 | 0.000053031 | 1316.7 | 402.8 | -3.26887 |
| 7.60756E-09 | 1939.1 | 668.433 | -2.90096 | 1.68793E-10 | 3080.68 | 943.9 | -3.26377 |
| 0.00188799 | 706.675 | 185.5 | -3.80957 | 3.35915E-06 | 1832.1 | 561.85 | -3.26083 |
| 0.00172599 | 756.2 | 215.85 | -3.50336 | 0.000614994 | 1510.5 | 463.233 | -3.26078 |
| 0.00661182 | 577.233 | 160.767 | -3.5905 | 0.000177648 | 1291.1 | 395.967 | -3.26063 |
| | | | | 0.0108761 | 1605.67 | 492.45 | -3.26057 |
| | | | | 7.28883E-06 | 1340.58 | 411.2 | -3.26015 |
| | | | | 0.000835969 | 2853.13 | 875.65 | -3.25829 |
| | | | | 0.0173691 | 998.767 | 306.933 | -3.25402 |
| 4.70395E-06 | 846.85 | 353.967 | -2.39246 | 4.97127E-05 | 814.15 | 250.2 | -3.254 |
| | | | | 2.32598E-07 | 1523.78 | 468.55 | -3.25211 |
| | | | | 3.13875E-05 | 2437.4 | 749.65 | -3.25138 |
| | | | | 1.15708E-07 | 2195.98 | 675.775 | -3.24957 |
| | | | | 0.00794213 | 1162.63 | 357.85 | -3.24892 |
| 0.000423112 | 585.3 | 226.15 | -2.58811 | 0.000327718 | 1421.68 | 438.075 | -3.24528 |
| | | | | 0.00181485 | 992.875 | 306.05 | -3.24416 |
| 0.00025959 | 731.533 | 222.1 | -3.29371 | 0.00241167 | 1998.4 | 616.35 | -3.24231 |
| 1.42593E-06 | 1146.18 | 458.9 | -2.49766 | 4.08507E-06 | 2215.78 | 683.475 | -3.24193 |
| | | | | 0.00177332 | 1240.9 | 382.9 | -3.24079 |
| 0.000500005 | 660.833 | #DIV/0! | #DIV/0! | 0.000440583 | 1743.73 | 538.4 | -3.23872 |
| | | | | 0.000306351 | 1950.63 | 602.45 | -3.23782 |
| 0.0013688 | 881.325 | 263.4 | -3.34596 | 0.00175283 | 2283.28 | 706.4 | -3.23227 |
| | | | | 0.000354524 | 1876.63 | 580.667 | -3.23186 |
| | | | | 1.8096E-07 | 2970.83 | 919.25 | -3.23179 |
| 0.0016354 | 790.1 | 270.033 | -2.92594 | 0.000271933 | 2011.88 | 622.875 | -3.22998 |
| 0.000464262 | 709.85 | 262.3 | -2.70625 | 0.000316722 | 1619.1 | 501.65 | -3.22755 |
| 0.0153319 | 596.6 | 295.7 | -2.01759 | 0.00147711 | 1656.25 | 513.5 | -3.22541 |
| | | | | 0.000551655 | 2212.13 | 686.8 | -3.22092 |
| 0.00317901 | 1009.9 | 485.925 | -2.0783 | 9.44068E-06 | 2077.2 | 645.025 | -3.22034 |
| 6.29914E-06 | 806.05 | 202.4 | -3.98246 | 7.48574E-06 | 1542 | 479.05 | -3.21887 |
| | | | | 0.00699165 | 1168.63 | 363.2 | -3.2176 |
| | | | | 2.45496E-07 | 1350.83 | 420.1 | -3.2155 |
| | | | | 0.0217113 | 1116.2 | 347.2 | -3.21486 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 0.00111973 | 2757.65 | 1003.2 | -2.74885 | 0.00002938 | 6939.75 | 2158.9 | -3.21448 |
| | 0.0113291 | 728.875 | 245.425 | -2.96985 | 0.00477424 | 1550.95 | 482.85 | -3.21207 |
| | | | | | 0.0108385 | 1018.18 | 317.1 | -3.2109 |
| | | | | | 1.41498E-05 | 2686.2 | 837.525 | -3.20731 |
| | | | | | 0.00777934 | 1505.58 | 469.6 | -3.20608 |
| | | | | | 0.000140025 | 1471.1 | 459.033 | -3.20478 |
| | | | | | 0.00222167 | 1599.68 | 499.3 | -3.20384 |
| | 0.00145663 | 950.55 | 326.65 | -2.91 | 0.00661547 | 1897.25 | 592.225 | -3.2036 |
| | 0.0067457 | 861.775 | 311.233 | -2.7689 | 0.00130189 | 1916.58 | 598.275 | -3.2035 |
| | 0.000144275 | 1662.8 | 579.2 | -2.87086 | 1.48441E-05 | 3702.43 | 1156.13 | -3.20244 |
| | 0.000980308 | 663.55 | 263.4 | -2.51917 | 0.00565425 | 1158.85 | 362 | -3.20124 |
| | | | | | 0.00256669 | 1184.1 | 369.9 | -3.20114 |
| | | | | | 0.00522258 | 1529.5 | 477.9 | -3.20046 |
| | | | | | 0.00881138 | 1263.85 | 395.167 | -3.19827 |
| | | | | | 0.00656881 | 1094.1 | 342.1 | -3.19819 |
| | | | | | 0.000165027 | 2654.78 | 830.3 | -3.19737 |
| | | | | | 0.019299 | 1060.77 | 331.867 | -3.19636 |
| | 0.00266954 | 970.825 | 250.325 | -3.87826 | 0.00350954 | 982.875 | 307.633 | -3.19496 |
| | | | | | 0.00585594 | 1576.35 | 493.4 | -3.19487 |
| | 0.000478159 | 594.7 | 225.3 | -2.63959 | 2.21183E-05 | 1078.57 | 338.2 | -3.18914 |
| | | | | | 0.00805642 | 1530.33 | 479.975 | -3.18834 |
| | | | | | 0.0125685 | 1180.68 | 370.4 | -3.18757 |
| | | | | | 4.02716E-06 | 1860.53 | 583.725 | -3.18733 |
| | | | | | 0.0125986 | 1525.98 | 478.867 | -3.18664 |
| | 0.00007591 | 937.875 | 300.6 | -3.12001 | 7.51639E-05 | 2077 | 652.075 | -3.18522 |
| | | | | | 0.000169434 | 958.25 | 300.9 | -3.18461 |
| | 0.000210128 | 799.9 | 257.35 | -3.10822 | 2.22134E-06 | 1214.5 | 381.55 | -3.18307 |
| | | | | | 0.0053343 | 1447.6 | 454.9 | -3.18224 |
| | | | | | 5.95397E-06 | 852.525 | 267.95 | -3.18166 |
| | 0.000855118 | 704.9 | 304 | -2.31875 | 3.91695E-05 | 1900.68 | 597.45 | -3.18131 |
| | | | | | 2.25262E-07 | 2061.63 | 648.825 | -3.17747 |
| | 0.00118417 | 1337.78 | 579.025 | -2.31039 | 8.61841E-05 | 2727.5 | 858.9 | -3.17557 |
| | | | | | 0.0118947 | 1862.1 | 586.4 | -3.17548 |
| | 0.0122979 | 1040.3 | 424.1 | -2.45296 | 0.00570263 | 2567.18 | 809.25 | -3.17229 |
| | 0.000238557 | 1346.2 | 466.975 | -2.88281 | 0.000015565 | 2726.48 | 859.525 | -3.17207 |
| | | | | | 0.00348856 | 2224.95 | 702.2 | -3.16854 |
| | | | | | 0.00124508 | 1308.03 | 412.85 | -3.1683 |
| | 2.50715E-06 | 1670.5 | 645.55 | -2.58772 | 5.27487E-08 | 2166.28 | 683.875 | -3.16765 |
| | 0.000803959 | 572.275 | 243.7 | -2.34828 | 1.18924E-05 | 1245.23 | 393.233 | -3.16663 |
| | | | | | 0.000186262 | 1409.03 | 445.05 | -3.16601 |
| | | | | | 7.51239E-05 | 4098.23 | 1296.65 | -3.16063 |
| | 0.000438733 | 1885.58 | 551.467 | -3.4192 | 0.00390591 | 3896.58 | 1232.85 | -3.16062 |
| | | | | | 0.00269423 | 848.1 | 268.35 | -3.16042 |
| | 8.58033E-05 | 960.35 | 351.725 | -2.7304 | 0.000110947 | 2068.18 | 654.425 | -3.16029 |
| -3.364 | 1.16526E-09 | 7113.88 | 1613.2 | -4.40979 | 9.32786E-08 | 5586.8 | 1768.73 | -3.15866 |
| | | | | | 0.0121927 | 2832.67 | 897.95 | -3.15459 |
| | | | | | 0.00612598 | 860.85 | 272.9 | -3.15445 |
| | | | | | 0.00115068 | 856.325 | 271.6 | -3.15289 |
| | | | | | 0.00685405 | 929.5 | 294.9 | -3.15192 |
| | | | | | 9.41837E-07 | 798.925 | 253.775 | -3.14816 |
| | | | | | 0.0135035 | 1352.58 | 430.1 | -3.14479 |
| | | | | | 2.65498E-05 | 1215.05 | 386.4 | -3.14454 |
| | | | | | 4.59087E-06 | 2504.1 | 796.6 | -3.14348 |
| | | | | | 0.00510257 | 1098.33 | 349.4 | -3.14348 |
| -3.1193 | 1.50576E-10 | 5252.1 | 1332.13 | -3.94265 | 1.02305E-09 | 3439.75 | 1094.25 | -3.14348 |
| | | | | | 9.90926E-07 | 1669.05 | 530.975 | -3.14337 |
| | 0.000324019 | 873.05 | 337.8 | -2.58452 | 0.00012352 | 2583.5 | 822.05 | -3.14275 |
| | | | | | 0.000900917 | 1144.33 | 364.375 | -3.14051 |
| | | | | | 0.000675249 | 1709.2 | 544.25 | -3.14047 |
| | | | | | 0.00113616 | 1225.3 | 390.5 | -3.13777 |
| | 0.00152857 | 698.4 | 279.875 | -2.4954 | 4.67799E-06 | 1586.98 | 505.867 | -3.13714 |
| | | | | | 0.00194791 | 2130.95 | 680.375 | -3.13202 |
| | | | | | 3.59809E-06 | 2058.25 | 657.575 | -3.13006 |

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|-------------|-------------|---------|----------|-------------|-------------|---------|----------|----------|
| | | | | 0.000016257 | 1682.3 | 537.5 | -3.12986 | |
| | | | | 0.00233123 | 1112.13 | 355.4 | -3.12922 | |
| | | | | 0.00661405 | 2063.27 | 659.6 | -3.12806 | |
| | | | | 0.0182916 | 733.1 | 234.5 | -3.12623 | |
| | | | | 0.000256344 | 872.05 | 278.975 | -3.12591 | |
| | | | | 3.4184E-07 | 2772.4 | 887.325 | -3.12445 | |
| 0.00250873 | 820.725 | 399.3 | -2.05541 | 0.000238139 | 1771.43 | 567.1 | -3.12367 | |
| 0.000348068 | 596.975 | 266.725 | -2.23817 | 2.15089E-05 | 1171.93 | 375.35 | -3.12222 | |
| | | | | 0.0110419 | 1208.8 | 387.8 | -3.11707 | |
| | | | | 2.06854E-05 | 1311.6 | 420.8 | -3.11692 | |
| | | | | 3.93833E-06 | 2990.57 | 959.6 | -3.11647 | |
| | | | | 0.00333277 | 1145.38 | 367.867 | -3.11356 | |
| | | | | 0.00200537 | 2763.98 | 888.075 | -3.11232 | |
| | | | | 2.07119E-05 | 916.267 | 294.5 | -3.11126 | |
| | | | | 0.0015147 | 1798.63 | 578.9 | -3.10697 | |
| | | | | 0.000223895 | 1630.88 | 525.2 | -3.10525 | |
| 0.000363412 | 730.6 | 283.8 | -2.57435 | 0.00270164 | 1611.7 | 519.9 | -3.10002 | |
| | | | | 0.00323198 | 1869.05 | 604.2 | -3.09343 | |
| | | | | 0.00038592 | 1561.4 | 504.833 | -3.0929 | |
| | | | | 0.00651886 | 1426.55 | 461.6 | -3.09045 | |
| 0.000315879 | 978.733 | #DIV/0! | #DIV/0! | 0.00131511 | 1602.1 | 518.85 | -3.08779 | |
| | | | | 1.02916E-06 | 2724.63 | 882.45 | -3.08757 | |
| 0.000324742 | 835.05 | 374.75 | -2.22829 | 4.17898E-06 | 1803.7 | 585.75 | -3.0793 | |
| | | | | 0.00820882 | 1012.27 | 328.8 | -3.07867 | |
| | | | | 0.00296762 | 1406.5 | 457.175 | -3.0765 | |
| 0.000970884 | 1097.18 | 389.2 | -2.81905 | 0.000415878 | 2170.6 | 705.775 | -3.07548 | |
| | | | | 5.6968E-08 | 1977.2 | 643 | -3.07496 | |
| 0.00484095 | 1426.68 | 601.867 | -2.37042 | 0.00233532 | 3870.65 | 1259.63 | -3.07286 | |
| | | | | 0.0202334 | 1092.93 | 355.725 | -3.07239 | |
| | | | | 0.000423055 | 1107.5 | 360.825 | -3.06935 | |
| | | | | 6.63468E-05 | 2095.83 | 683.2 | -3.06766 | |
| 0.00013747 | 1092.55 | 399.133 | -2.73731 | 0.000358085 | 2091.13 | 681.775 | -3.06718 | |
| | | | | 2.71479E-05 | 937.525 | 305.8 | -3.06581 | |
| | | | | 4.20589E-05 | 1568.45 | 512.35 | -3.06129 | |
| 1.28492E-08 | 2068.25 | 325.967 | -6.34497 | 3.57733E-05 | 1263.53 | 413.133 | -3.0584 | |
| | | | | 0.0147782 | 1647.75 | 538.767 | -3.05837 | |
| | | | | 0.000870238 | 2171.98 | 710.2 | -3.05826 | |
| | | | | 2.10329E-06 | 859.175 | 280.95 | -3.05811 | |
| | | | | 0.0050014 | 1052.78 | 344.533 | -3.05565 | |
| -4.6364 | 7.69378E-11 | 5659.9 | 975.15 | -5.80413 | 2.27489E-07 | 3130.98 | 1025.35 | -3.05357 |
| | | | | | 0.00450655 | 2542.58 | 832.7 | -3.05341 |
| | | | | | 0.000461178 | 4090.55 | 1340.2 | -3.05219 |
| | | | | | 0.0158464 | 1048.88 | 344 | -3.04906 |
| 0.000549471 | 1350.3 | 459.6 | -2.93799 | 0.000121782 | 2914.1 | 955.833 | -3.04875 | |
| 0.0153687 | 597.275 | 243.6 | -2.45187 | 6.55569E-06 | 1644.58 | 539.833 | -3.04645 | |
| | | | | 9.17524E-06 | 1718.95 | 564.6 | -3.04454 | |
| | | | | 0.00155707 | 9650.18 | 3170.28 | -3.04396 | |
| | | | | 2.80352E-08 | 2522.3 | 829 | -3.04258 | |
| | | | | 0.013759 | 2551.93 | 839.6 | -3.03945 | |
| | | | | 0.00662682 | 3308.8 | 1088.7 | -3.03922 | |
| | | | | 0.00644707 | 812.325 | 267.65 | -3.03503 | |
| | | | | 8.6245E-07 | 1499.65 | 494.275 | -3.03404 | |
| 0.00271394 | 633.2 | 172.4 | -3.67285 | 0.00178415 | 1173.78 | 386.95 | -3.0334 | |
| | | | | 0.000274805 | 1908.23 | 629.35 | -3.03206 | |
| | | | | 2.19671E-05 | 1832.73 | 604.6 | -3.03132 | |
| | | | | 0.00483816 | 1190.85 | 392.9 | -3.03092 | |
| | | | | 0.00311599 | 1554.08 | 513.15 | -3.0285 | |
| | | | | 0.00163885 | 2662.13 | 879.033 | -3.02847 | |
| | | | | 0.00807353 | 1131.13 | 373.6 | -3.02764 | |
| | | | | 0.00586968 | 2229.33 | 736.8 | -3.02569 | |
| | | | | 0.000636139 | 1100.25 | 363.9 | -3.0235 | |
| 4.80068E-05 | 1726.83 | 627.475 | -2.75202 | 1.68426E-05 | 3747.48 | 1240.33 | -3.02137 | |
| 5.68345E-07 | 4346.53 | 1945.33 | -2.23434 | 2.89413E-09 | 3277.18 | 1084.9 | -3.02072 | |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 1.55823E-05 | 748.825 | 200.05 | -3.74319 | 0.000109359 | 979.775 | 324.45 | -3.0198 |
| | 1.16294E-07 | 620.825 | 170.85 | -3.63374 | 6.54305E-06 | 937.4 | 310.533 | -3.01868 |
| | 0.00209174 | 653.25 | 245.6 | -2.65981 | 7.53169E-05 | 1285.35 | 425.85 | -3.01832 |
| | | | | | 1.38708E-06 | 1599.35 | 530.175 | -3.01665 |
| | 0.00582864 | 573.05 | #DIV/0! | #DIV/0! | 0.000146888 | 1298.98 | 431.3 | -3.01177 |
| | | | | | 0.00178799 | 1523.65 | 506.1 | -3.01057 |
| | | | | | 5.53033E-08 | 1318.95 | 438.325 | -3.00907 |
| | 5.36361E-08 | 1152.3 | 352.5 | -3.26894 | 1.2859E-07 | 2110.13 | 702 | -3.00588 |
| | | | | | 0.0215413 | 1898.33 | 631.75 | -3.00488 |
| | 0.000195443 | 591.725 | 210.9 | -2.80571 | 0.000120005 | 1010.63 | 336.7 | -3.00158 |
| | | | | | 0.00170843 | 1073.6 | 357.9 | -2.99972 |
| | 0.00046999 | 946.2 | 439.525 | -2.15278 | 3.40961E-06 | 2101.73 | 701.025 | -2.99807 |
| | | | | | 0.00916434 | 1033.45 | 344.733 | -2.99782 |
| | | | | | 0.017444 | 948.7 | 316.55 | -2.997 |
| | | | | | 0.00295903 | 1159.8 | 387.35 | -2.99419 |
| | | | | | 0.000498686 | 2032.7 | 679.5 | -2.99146 |
| | 0.00481111 | 876.833 | 386.6 | -2.26806 | 0.000134422 | 1864.7 | 623.65 | -2.98998 |
| | 0.000166738 | 724.8 | #DIV/0! | #DIV/0! | 0.0223075 | 1383.05 | 462.85 | -2.98812 |
| | | | | | 0.0168308 | 1488.55 | 498.467 | -2.98626 |
| | | | | | 3.89367E-10 | 1886.3 | 631.75 | -2.98583 |
| | 6.78696E-05 | 634.225 | 206.367 | -3.07329 | 2.76664E-05 | 1111.57 | 372.467 | -2.98434 |
| | 9.81877E-05 | 1279.75 | 600.425 | -2.13141 | 5.8796E-08 | 3190.98 | 1071.53 | -2.97798 |
| | | | | | 0.00913922 | 1331.3 | 447.05 | -2.97797 |
| | | | | | 0.000675759 | 2295.9 | 771.15 | -2.97724 |
| | | | | | 6.99846E-07 | 2756.93 | 926.3 | -2.97628 |
| | | | | | 0.0186679 | 1037.15 | 349.1 | -2.97093 |
| | 7.07118E-05 | 1960.28 | 523.1 | -3.74742 | 0.000288585 | 3823.85 | 1287.25 | -2.97056 |
| | | | | | 0.000589258 | 1672.7 | 563.5 | -2.96841 |
| | 4.70706E-07 | 838.1 | 285.15 | -2.93915 | 2.97284E-06 | 1997.8 | 673.325 | -2.96707 |
| | | | | | 1.98404E-05 | 791.75 | 266.9 | -2.96647 |
| | 0.000400468 | 2269.93 | 666.275 | -3.40689 | 0.000584694 | 3089.08 | 1041.98 | -2.96463 |
| | | | | | 0.00399328 | 798.1 | 269.4 | -2.96251 |
| -2.1019 | 3.79744E-08 | 1690.38 | 612.425 | -2.76013 | 1.33185E-08 | 2848.13 | 961.525 | -2.96209 |
| | | | | | 0.000266646 | 1890.58 | 638.4 | -2.96143 |
| | | | | | 0.00790345 | 1563.45 | 529.133 | -2.95474 |
| | | | | | 0.000362601 | 1615.3 | 546.7 | -2.95464 |
| | 0.0010185 | 842.95 | 348.65 | -2.41775 | 8.63108E-05 | 1870.1 | 633.333 | -2.95279 |
| | | | | | 0.000151074 | 1868.88 | 633.1 | -2.95194 |
| | | | | | 0.0079894 | 1337.38 | 453.125 | -2.95145 |
| | 2.15009E-05 | 951.95 | 331.233 | -2.87396 | 5.17678E-07 | 1942.27 | 658.567 | -2.94923 |
| | | | | | 0.00893875 | 1182.2 | 401.1 | -2.94739 |
| | 0.00046655 | 791.7 | 328.6 | -2.40931 | 5.78721E-05 | 1925.45 | 653.433 | -2.94667 |
| | | | | | 0.00717768 | 1181.75 | 401.05 | -2.94664 |
| | 0.00298271 | 804.633 | 210.4 | -3.8243 | 0.000325863 | 1719.43 | 583.533 | -2.94659 |
| | 0.00233823 | 673.233 | #DIV/0! | #DIV/0! | 0.000331395 | 1984.8 | 674.9 | -2.94088 |
| | | | | | 0.00863805 | 837.4 | 284.9 | -2.93928 |
| | 8.64595E-05 | 977.925 | 444.1 | -2.20204 | 7.48528E-07 | 1769.88 | 602.167 | -2.93918 |
| | 2.01031E-05 | 1805.43 | 722.425 | -2.49912 | 5.90858E-06 | 3300.8 | 1123.9 | -2.93692 |
| | | | | | 1.29114E-05 | 1466.08 | 499.4 | -2.93567 |
| | 0.00268103 | 1160.83 | 398.6 | -2.91226 | 0.00276037 | 2628.88 | 895.667 | -2.9351 |
| | | | | | 0.00684103 | 1620.33 | 552.433 | -2.93307 |
| | | | | | 0.003542 | 1640.57 | 559.4 | -2.93273 |
| | 0.000348482 | 974.6 | 319.85 | -3.04705 | 0.016678 | 1503.85 | 513.233 | -2.93015 |
| | 0.000523758 | 599.275 | #DIV/0! | #DIV/0! | 0.00534183 | 1676.65 | 572.433 | -2.92899 |
| | | | | | 0.0143357 | 662.7 | 226.4 | -2.92712 |
| | 0.00011919 | 998.867 | #DIV/0! | #DIV/0! | 7.69536E-05 | 1782.3 | 609.5 | -2.9242 |
| -2.6329 | 2.93431E-08 | 3075.18 | 879.45 | -3.4967 | 2.40831E-07 | 4211.2 | 1440.4 | -2.92363 |
| | 0.000176405 | 1678.05 | 680.9 | -2.46446 | 1.09797E-06 | 2420.33 | 827.9 | -2.92345 |
| | 0.0109972 | 510.425 | 205.35 | -2.48563 | 5.21427E-05 | 1072.73 | 367 | -2.92296 |
| | | | | | 0.000316845 | 3058.7 | 1047.37 | -2.92037 |
| | | | | | 9.70656E-05 | 1953.1 | 668.975 | -2.91954 |
| -2.7662 | 2.99212E-05 | 2794.95 | 947.7 | -2.94919 | 0.000139487 | 2875.73 | 985.45 | -2.91818 |
| | | | | | 0.00307566 | 1677.25 | 575.125 | -2.91632 |

| | | | | | | | |
|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | 0.00820761 | 1514.23 | 519.233 | -2.91627 |
| | | | | 0.00196677 | 1491.75 | 511.65 | -2.91557 |
| 0.000358448 | 1857.23 | 895.075 | -2.07494 | 5.40646E-06 | 3632.35 | 1245.95 | -2.91533 |
| | | | | 0.000390697 | 1134.17 | 389.067 | -2.9151 |
| | | | | 1.24195E-06 | 2057.35 | 706.1 | -2.91368 |
| | | | | 6.40868E-06 | 1003.07 | 344.6 | -2.91081 |
| 1.13184E-06 | 1198.93 | 352.1 | -3.40509 | 5.6655E-07 | 2395.63 | 823.8 | -2.90802 |
| | | | | 0.00538746 | 829 | 285.1 | -2.90775 |
| | | | | 0.000340265 | 1303.78 | 448.4 | -2.90762 |
| 0.00617533 | 1031.65 | 470.4 | -2.19313 | 0.00030619 | 2184.98 | 751.675 | -2.90681 |
| | | | | 1.44454E-06 | 1704.73 | 587.4 | -2.90215 |
| 0.00103251 | 2308.9 | 939.25 | -2.45824 | 0.000128776 | 5511.13 | 1899.05 | -2.90204 |
| | | | | 3.06559E-06 | 1935.05 | 666.875 | -2.90167 |
| | | | | 0.00363885 | 1436.15 | 495.1 | -2.90073 |
| | | | | 0.00276851 | 2168.45 | 747.7 | -2.90016 |
| | | | | 0.00100117 | 2363.33 | 815.233 | -2.89896 |
| | | | | 0.00103213 | 2510.5 | 866.4 | -2.89762 |
| 5.23288E-07 | 653.2 | 182.4 | -3.58114 | 4.32352E-05 | 899.7 | 310.5 | -2.89758 |
| 9.47233E-05 | 547.8 | #DIV/0! | #DIV/0! | 0.00170763 | 1286.17 | 443.9 | -2.89742 |
| 0.00141658 | 820.9 | 303.333 | -2.70626 | 0.000539186 | 1746.73 | 603.15 | -2.896 |
| 7.74532E-05 | 2124.53 | 678.833 | -3.12967 | 1.52262E-05 | 4098.88 | 1415.65 | -2.8954 |
| 2.87786E-06 | 2013.93 | 884.2 | -2.27768 | 4.73008E-08 | 3811.43 | 1316.58 | -2.89495 |
| | | | | 0.00295625 | 987.3 | 341.175 | -2.89382 |
| | | | | 7.84397E-05 | 1658.3 | 573.567 | -2.89121 |
| | | | | 3.26758E-05 | 1412.83 | 489 | -2.88921 |
| | | | | 0.00441215 | 1707.08 | 591.575 | -2.88564 |
| | | | | 2.53298E-06 | 1744 | 604.4 | -2.88551 |
| | | | | 0.00449316 | 1648.75 | 571.675 | -2.88407 |
| 4.70247E-05 | 918.925 | 334.667 | -2.74579 | 1.35983E-05 | 1474.93 | 511.575 | -2.88311 |
| | | | | 0.000173651 | 2321.03 | 805.25 | -2.88237 |
| 0.000368618 | 633.3 | 267.1 | -2.37102 | 0.000591016 | 1719.73 | 597.325 | -2.87906 |
| 4.58147E-05 | 1558 | 624.3 | -2.4956 | 7.58751E-06 | 3083.6 | 1071.58 | -2.87763 |
| 1.07276E-06 | 831.8 | #DIV/0! | #DIV/0! | 7.18965E-05 | 1335.9 | 464.825 | -2.87398 |
| | | | | 4.40593E-09 | 41122 | 14316.3 | -2.87239 |
| | | | | 0.0104462 | 717.333 | 250 | -2.86933 |
| 0.00817324 | 871.475 | #DIV/0! | #DIV/0! | 0.00740753 | 2098.45 | 731.367 | -2.86922 |
| 0.00277528 | 751.275 | 254.433 | -2.95274 | 0.00228514 | 1573.5 | 548.425 | -2.86913 |
| 1.27712E-05 | 942.025 | 465.45 | -2.0239 | 1.77169E-09 | 1360.4 | 474.433 | -2.86742 |
| 0.000358312 | 543.975 | 225.2 | -2.41552 | 0.000822237 | 1540.33 | 537.8 | -2.86414 |
| | | | | 0.011874 | 915.775 | 319.833 | -2.86329 |
| | | | | 0.000249284 | 1426.77 | 498.3 | -2.86327 |
| | | | | 0.000300568 | 2019.4 | 705.367 | -2.86291 |
| | | | | 3.36367E-06 | 1973.2 | 689.9 | -2.86012 |
| | | | | 0.0032924 | 1980 | 692.3 | -2.86003 |
| | | | | 0.00866337 | 1581.95 | 553.475 | -2.85821 |
| | | | | 4.29869E-05 | 1309.83 | 458.4 | -2.85738 |
| | | | | 8.72792E-05 | 1433.5 | 501.75 | -2.857 |
| | | | | 0.00258467 | 1327.63 | 464.9 | -2.85574 |
| | | | | 1.27196E-05 | 1506 | 527.45 | -2.85525 |
| 0.00229097 | 685.15 | 150.75 | -4.54494 | 0.0182699 | 1298.28 | 454.9 | -2.85398 |
| | | | | 3.03787E-07 | 2861.93 | 1003.53 | -2.85187 |
| | | | | 1.23859E-05 | 3583.53 | 1257.2 | -2.8504 |
| 4.55376E-05 | 767.15 | 365.65 | -2.09804 | 3.36615E-05 | 873.467 | 306.933 | -2.84579 |
| | | | | 1.30171E-05 | 2066.9 | 726.533 | -2.84488 |
| | | | | 0.00965699 | 1023.87 | 360.1 | -2.84328 |
| 0.000119753 | 1554.2 | 729.375 | -2.13087 | 6.60476E-07 | 2408.48 | 847.35 | -2.84236 |
| 3.13937E-05 | 856.35 | 367.325 | -2.33131 | 2.98048E-05 | 1464.35 | 515.4 | -2.84119 |
| | | | | 0.0020686 | 1026.97 | 362.3 | -2.83458 |
| | | | | 1.3408E-06 | 1931.65 | 681.6 | -2.83399 |
| | | | | 0.00859402 | 1223.75 | 431.833 | -2.83385 |
| | | | | 0.00119616 | 1248.43 | 440.567 | -2.83368 |
| 8.84502E-09 | 775.825 | 197.3 | -3.93221 | 1.45199E-05 | 1430.15 | 504.9 | -2.83254 |
| | | | | 0.0144953 | 1120.4 | 395.85 | -2.83037 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00394179 | 4907.15 | 1733.8 | -2.83029 |
| | | | | | 0.0014182 | 1354 | 478.933 | -2.82712 |
| | | | | | 0.000150032 | 2294 | 811.5 | -2.82686 |
| | 0.011649 | 1072.5 | 495.3 | -2.16535 | 6.11421E-06 | 1954.78 | 691.8 | -2.82564 |
| | | | | | 3.13578E-08 | 253663 | 89961 | -2.8197 |
| | 6.75119E-05 | 590.45 | 210.633 | -2.80321 | 0.000137673 | 1272.65 | 451.825 | -2.81669 |
| | | | | | 0.00133336 | 1336.63 | 474.725 | -2.81558 |
| | | | | | 1.01151E-06 | 954.275 | 339 | -2.81497 |
| -3.7637 | 5.00012E-13 | 5313.7 | 923.175 | -5.7559 | 5.07807E-08 | 3934.6 | 1399.08 | -2.81229 |
| | 0.000190791 | 8161.28 | 3356.05 | -2.43181 | 1.84959E-05 | 16782.3 | 5967.58 | -2.81224 |
| | | | | | 0.00299163 | 1908.88 | 679 | -2.8113 |
| | | | | | 0.0161444 | 924.975 | 329.15 | -2.81019 |
| | | | | | 1.41898E-06 | 4635.73 | 1650.65 | -2.80842 |
| | 0.0015595 | 711.575 | 336.525 | -2.11448 | 3.26044E-05 | 1192 | 425 | -2.80471 |
| | | | | | 0.0157765 | 798.925 | 285 | -2.80325 |
| | 1.04016E-06 | 1935.68 | 883.9 | -2.18993 | 8.79159E-08 | 3234.85 | 1154.33 | -2.80237 |
| | | | | | 0.00312308 | 1846.07 | 660.133 | -2.79651 |
| | 8.77918E-05 | 3696.18 | 1390.68 | -2.65783 | 1.32956E-05 | 6055.8 | 2165.6 | -2.79636 |
| | | | | | 0.000155283 | 1570.83 | 561.9 | -2.79557 |
| | | | | | 2.95246E-05 | 1360.9 | 486.95 | -2.79474 |
| | | | | | 2.35466E-06 | 1230.68 | 440.6 | -2.79318 |
| | 1.15085E-05 | 1459.08 | 478.5 | -3.04927 | 2.42198E-06 | 2251.33 | 806.067 | -2.79298 |
| | 0.000140628 | 2903.38 | 1266.93 | -2.29167 | 1.99235E-06 | 5949.55 | 2130.33 | -2.79279 |
| | | | | | 0.000309088 | 1709.5 | 612.25 | -2.79216 |
| | | | | | 0.00377225 | 973.9 | 349.3 | -2.78815 |
| | | | | | 0.00453339 | 877.25 | 314.7 | -2.78758 |
| | | | | | 0.00183634 | 813.1 | 291.7 | -2.78745 |
| | | | | | 0.0113133 | 1334.33 | 478.75 | -2.78712 |
| | | | | | 0.00959327 | 1046.13 | 375.4 | -2.78669 |
| | | | | | 0.00158656 | 1474.73 | 529.325 | -2.78605 |
| | | | | | 0.00476023 | 1842.58 | 661.5 | -2.78545 |
| | | | | | 0.00601455 | 2015.08 | 723.5 | -2.78518 |
| | | | | | 0.00849603 | 1882.78 | 676 | -2.78517 |
| | | | | | 2.91803E-07 | 968.567 | 348 | -2.78324 |
| | 4.63679E-06 | 1012.4 | 325.075 | -3.11436 | 4.59337E-05 | 1994.73 | 717.15 | -2.78146 |
| | 0.00106931 | 803.8 | 260.8 | -3.08206 | 0.00268373 | 1652 | 594.6 | -2.77834 |
| | | | | | 1.04593E-08 | 1504.3 | 541.5 | -2.77802 |
| | 0.000399274 | 4276.3 | 1946.3 | -2.19714 | 5.13662E-06 | 10086.1 | 3631.05 | -2.77774 |
| | 0.000341442 | 942.325 | 363.267 | -2.59403 | 3.60939E-05 | 1758.5 | 633.333 | -2.77658 |
| | 8.46119E-06 | 1943.53 | 933.975 | -2.08092 | 4.1539E-08 | 3396.93 | 1223.8 | -2.77572 |
| | | | | | 0.000252184 | 1699.97 | 612.9 | -2.77364 |
| | 0.000529348 | 573 | 184.6 | -3.10401 | 0.000372993 | 1430.75 | 516.05 | -2.7725 |
| | | | | | 0.0104467 | 1464.03 | 528.1 | -2.77227 |
| | 0.000640938 | 751.6 | 232 | -3.23966 | 5.59142E-05 | 1432.75 | 516.967 | -2.77146 |
| | 0.00485382 | 581.075 | 241.65 | -2.40461 | 0.0038047 | 1039.07 | 374.933 | -2.77134 |
| | | | | | 0.0221912 | 1880.35 | 679.267 | -2.76821 |
| | | | | | 0.0069439 | 895.867 | 323.633 | -2.76815 |
| | 0.000469964 | 562.2 | #DIV/0! | #DIV/0! | 0.0105567 | 1437.37 | 519.533 | -2.76665 |
| | | | | | 6.67506E-07 | 1694.83 | 612.625 | -2.7665 |
| -2.5506 | 6.14063E-07 | 2718.95 | 895.15 | -3.03742 | 2.58414E-06 | 3608.65 | 1305.25 | -2.76472 |
| | | | | | 0.000765719 | 4120.08 | 1492.75 | -2.76006 |
| | | | | | 5.66064E-05 | 1298.4 | 471.133 | -2.75591 |
| | | | | | 0.000184031 | 1514.65 | 549.633 | -2.75575 |
| | | | | | 0.00122012 | 1730.9 | 628.133 | -2.75563 |
| | 9.01561E-06 | 15671.3 | 5758.98 | -2.72119 | 0.000002746 | 32876.1 | 11935.5 | -2.75448 |
| | | | | | 0.00094596 | 754.825 | 274.2 | -2.75283 |
| | 0.000284388 | 679.3 | 311.7 | -2.17934 | 0.00064928 | 1260.47 | 458.375 | -2.74986 |
| | | | | | 1.07851E-05 | 1526.78 | 555.467 | -2.74863 |
| | | | | | 3.47966E-05 | 1069.15 | 389.067 | -2.74799 |
| | | | | | 0.00641504 | 1290.98 | 469.8 | -2.74792 |
| | | | | | 4.47621E-06 | 1497.83 | 545.075 | -2.74792 |
| | | | | | 0.00883358 | 2859.9 | 1040.78 | -2.74786 |
| | | | | | 0.00218411 | 1668.53 | 607.567 | -2.74624 |

| | | | | | | | |
|-------------|-------------|---------|----------|-------------|---------|---------|----------|
| | | | | 8.27426E-05 | 1966.78 | 716.95 | -2.74325 |
| 0.000031123 | 983.175 | 391.525 | -2.51114 | 0.000222678 | 2292.15 | 835.675 | -2.74287 |
| | | | | 0.0104564 | 1987.58 | 724.9 | -2.74186 |
| 2.48487E-05 | 726.467 | 186.7 | -3.89109 | 5.68736E-05 | 1220.65 | 445.3 | -2.74119 |
| 0.00397335 | 753.733 | 276.433 | -2.72664 | 0.0159363 | 1255.47 | 458.167 | -2.7402 |
| | | | | 1.32759E-08 | 1288.03 | 470.2 | -2.73933 |
| 0.00484216 | 691.95 | 304.033 | -2.2759 | 0.000551024 | 1357.38 | 496.05 | -2.73637 |
| | | | | 0.00470067 | 1226.93 | 448.7 | -2.73442 |
| | | | | 2.65213E-05 | 2427.65 | 888.525 | -2.73222 |
| | | | | 6.29685E-05 | 2975.65 | 1091.88 | -2.72527 |
| | | | | 0.00555547 | 1083.45 | 397.6 | -2.72497 |
| | | | | 0.00806712 | 930.8 | 341.6 | -2.72482 |
| 9.31369E-05 | 825.85 | 357.833 | -2.30792 | 5.30665E-05 | 2022.63 | 742.575 | -2.7238 |
| 1.04296E-05 | 3001.23 | 1238.68 | -2.42293 | 1.31343E-06 | 6136.03 | 2254.28 | -2.72195 |
| | | | | 7.63974E-08 | 1878.4 | 691.425 | -2.71671 |
| | | | | 2.58292E-05 | 1690.78 | 622.525 | -2.716 |
| | | | | 0.0102665 | 856.467 | 315.5 | -2.71463 |
| 5.84565E-07 | 807.467 | 362.9 | -2.22504 | 0.000324507 | 1826.18 | 673.25 | -2.71248 |
| 0.00150381 | 839.625 | 304.933 | -2.75347 | 0.00616064 | 1539.53 | 567.6 | -2.71234 |
| | | | | 0.00745078 | 945.467 | 348.8 | -2.71063 |
| | | | | 0.012859 | 1218.43 | 449.6 | -2.71004 |
| | | | | 1.71154E-05 | 1486.3 | 548.5 | -2.70975 |
| | | | | 0.000180306 | 875.3 | 323.167 | -2.70851 |
| 0.0113208 | 599.267 | #DIV/0! | #DIV/0! | 0.000120775 | 1249.23 | 461.4 | -2.70747 |
| | | | | 3.83753E-06 | 980.25 | 362.067 | -2.70737 |
| | | | | 0.0129236 | 1004.9 | 371.4 | -2.70571 |
| | | | | 6.64105E-06 | 1152.67 | 426.2 | -2.70452 |
| | | | | 0.000502984 | 632.833 | 234 | -2.70442 |
| | | | | 0.00197709 | 1288.13 | 476.6 | -2.70276 |
| | | | | 0.00630901 | 1896.93 | 702.4 | -2.70063 |
| 0.000200326 | 744.275 | 319.925 | -2.3264 | 2.91049E-06 | 1325.9 | 491.05 | -2.70013 |
| 0.000260672 | 755.275 | 371.475 | -2.03318 | 8.69948E-06 | 1840.53 | 682.125 | -2.69822 |
| | | | | 0.0179982 | 958.9 | 355.467 | -2.69758 |
| 0.00509078 | 938.7 | 449.867 | -2.08662 | 0.000758429 | 1774.63 | 658 | -2.69701 |
| | | | | 1.19731E-06 | 20872.4 | 7742.77 | -2.69573 |
| | | | | 0.000393356 | 1403.55 | 520.75 | -2.69525 |
| | | | | 0.00296631 | 2238.03 | 830.6 | -2.69447 |
| 0.00248653 | 546.1 | #DIV/0! | #DIV/0! | 0.00438143 | 1194.9 | 443.5 | -2.69425 |
| | | | | 5.32633E-05 | 4103.43 | 1526.33 | -2.68842 |
| 3.88816E-05 | 937.375 | 428.15 | -2.18936 | 4.49926E-07 | 1183.85 | 440.45 | -2.68782 |
| | | | | 0.0126364 | 779.733 | 290.25 | -2.68642 |
| | | | | 1.67611E-05 | 858.35 | 319.533 | -2.68626 |
| | | | | 0.000859305 | 1300.5 | 484.3 | -2.68532 |
| 0.0126829 | 27117.2 | 10673.6 | -2.54059 | 0.00319323 | 74205.6 | 27641.2 | -2.68461 |
| | | | | 0.011623 | 934.567 | 348.2 | -2.68399 |
| 0.000688544 | 1692.27 | 557.825 | -3.03369 | 0.000029536 | 2433.13 | 906.575 | -2.68387 |
| | | | | 0.0212182 | 1201.78 | 448.225 | -2.68119 |
| | | | | 2.63085E-06 | 1913.9 | 713.9 | -2.68091 |
| 0.00535528 | 1595.43 | #DIV/0! | #DIV/0! | 0.00837628 | 2832.37 | 1056.85 | -2.68001 |
| | | | | 2.60809E-05 | 2623.83 | 979.45 | -2.67888 |
| 0.000404144 | 771.275 | 318.225 | -2.42368 | 0.000209945 | 1141.8 | 426.45 | -2.67745 |
| 0.000749164 | 670.9 | 259.767 | -2.5827 | 0.000325931 | 1412.25 | 527.525 | -2.67712 |
| 0.000250975 | 736.125 | 347.767 | -2.11672 | 0.00021243 | 1209.15 | 452.167 | -2.67412 |
| | | | | 0.00803186 | 877.475 | 328.15 | -2.67401 |
| -3.8338 | 3.46601E-10 | 3468.43 | 716.967 | 2.55866E-06 | 2534.35 | 948 | -2.67336 |
| | 0.00135562 | 534.8 | 169.2 | 0.000491931 | 1156.48 | 432.633 | -2.67311 |
| | | | | 0.000472016 | 1397.95 | 523.3 | -2.67141 |
| | 0.00462261 | 1308.15 | 268.1 | 0.00695783 | 2211.15 | 828.5 | -2.66886 |
| | | | | 8.1476E-07 | 1799.05 | 675.55 | -2.66309 |
| | | | | 0.000711155 | 1269.6 | 477.233 | -2.66033 |
| 0.000172585 | 714.075 | #DIV/0! | #DIV/0! | 0.000119712 | 1435.23 | 539.8 | -2.65881 |
| 0.00320283 | 3346.13 | 1668.83 | -2.00508 | 4.83715E-05 | 6100.88 | 2295.2 | -2.6581 |
| | | | | 0.000932007 | 2118.2 | 796.9 | -2.65805 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.000504979 | 1179.43 | 443.8 | -2.65756 |
| | 0.00452396 | 617.15 | #DIV/0! | #DIV/0! | 0.0136445 | 1214.53 | 457.267 | -2.65605 |
| | | | | | 0.000375514 | 1052.2 | 396.467 | -2.65394 |
| | 0.00134071 | 870.333 | #DIV/0! | #DIV/0! | 0.000892909 | 1794.17 | 676.9 | -2.65056 |
| | 5.76053E-06 | 571.4 | 244.3 | -2.33893 | 4.73159E-07 | 1296.7 | 489.25 | -2.65038 |
| | | | | | 2.19999E-08 | 1922.68 | 726.35 | -2.64704 |
| | 2.19283E-05 | 2803.25 | 765.875 | -3.66019 | 0.000344918 | 5410.2 | 2046.13 | -2.64412 |
| -2.5762 | 4.22131E-12 | 25683.1 | 6933.53 | -3.70419 | 9.02232E-10 | 10688.6 | 4043.2 | -2.64359 |
| | | | | | 0.00157007 | 609.275 | 230.75 | -2.64041 |
| | 0.00130954 | 524.275 | 140.9 | -3.7209 | 0.00390993 | 1170.97 | 443.675 | -2.63924 |
| | | | | | 0.00021693 | 1686.47 | 639 | -2.63923 |
| | | | | | 0.000403912 | 2423.38 | 918.7 | -2.63783 |
| | 0.00244602 | 1408 | 476.6 | -2.95426 | 0.00163586 | 2909 | 1103 | -2.63735 |
| | | | | | 0.00694316 | 1374.68 | 521.5 | -2.636 |
| | 0.000135028 | 1433.53 | 683 | -2.09887 | 1.48789E-06 | 2888.08 | 1095.7 | -2.63583 |
| | | | | | 0.0048794 | 4054.57 | 1539.08 | -2.63442 |
| | | | | | 4.77094E-05 | 1404.18 | 533.067 | -2.63415 |
| | 0.0139837 | 656 | 264 | -2.48485 | 0.00782216 | 1371.45 | 521.45 | -2.63007 |
| | 0.00562622 | 1085.8 | 538.525 | -2.01625 | 0.000355959 | 1913.95 | 727.95 | -2.62923 |
| | | | | | 7.98993E-05 | 2149.05 | 817.775 | -2.62792 |
| | | | | | 0.000450488 | 1235.2 | 470.133 | -2.62734 |
| | | | | | 0.000708398 | 2579.6 | 982.075 | -2.62668 |
| | | | | | 0.00866211 | 845.267 | 321.8 | -2.62668 |
| | | | | | 0.00236965 | 1952.9 | 743.6 | -2.62628 |
| | | | | | 0.000220011 | 779.633 | 296.9 | -2.62591 |
| | | | | | 0.00125327 | 1271.6 | 484.4 | -2.6251 |
| | | | | | 3.54045E-06 | 1453.27 | 553.65 | -2.62488 |
| -2.3744 | 0.000193529 | 1317.03 | 641 | -2.05464 | 7.39632E-07 | 904.9 | 344.925 | -2.62347 |
| | | | | | 0.000785179 | 3396.38 | 1294.85 | -2.62299 |
| | | | | | 0.00279223 | 1498.8 | 571.65 | -2.62188 |
| | | | | | 0.00152279 | 1385.35 | 528.4 | -2.62178 |
| | | | | | 0.000551777 | 2748.93 | 1048.55 | -2.62164 |
| | 7.97798E-08 | 934.175 | 360.7 | -2.58989 | 1.28205E-07 | 1343.98 | 512.9 | -2.62035 |
| | 0.00128748 | 744.733 | 152.4 | -4.8867 | 0.0128413 | 1342.03 | 512.9 | -2.61654 |
| | | | | | 0.023012 | 766.2 | 292.867 | -2.61621 |
| | 0.000273953 | 819.35 | 221.8 | -3.69409 | 0.00456057 | 1480.23 | 565.8 | -2.61616 |
| | | | | | 0.00716199 | 1657.18 | 633.55 | -2.6157 |
| | | | | | 0.00142268 | 4169.95 | 1594.43 | -2.61533 |
| | | | | | 0.000519016 | 1438.63 | 550.35 | -2.61402 |
| | | | | | 0.000416457 | 842.1 | 322.533 | -2.61089 |
| | | | | | 0.00277249 | 1601.33 | 613.35 | -2.61079 |
| | | | | | 0.0188644 | 692.625 | 265.35 | -2.61023 |
| | | | | | 5.30398E-05 | 1782.3 | 683 | -2.60952 |
| | 0.0027004 | 577.525 | 258.033 | -2.23818 | 0.000155851 | 941.85 | 361.367 | -2.60636 |
| | | | | | 0.00284932 | 1207.13 | 463.3 | -2.60549 |
| | | | | | 1.28459E-06 | 2678.9 | 1029.07 | -2.60323 |
| | | | | | 0.000502949 | 1563.35 | 600.55 | -2.6032 |
| | | | | | 3.50312E-06 | 2106.65 | 809.6 | -2.60209 |
| -2.6185 | 3.90344E-05 | 4289.58 | 1485.58 | -2.88748 | 3.83434E-05 | 2849 | 1097.28 | -2.59643 |
| | 8.78957E-07 | 936.2 | 319 | -2.9348 | 9.55245E-05 | 1090.23 | 420.2 | -2.59456 |
| -2.6421 | 7.71006E-09 | 15106.3 | 2922.33 | -5.16928 | 1.23411E-05 | 5404.05 | 2083.53 | -2.59371 |
| | | | | | 0.00380089 | 1472.27 | 567.7 | -2.59339 |
| | | | | | 0.00087198 | 1522 | 586.925 | -2.59318 |
| | | | | | 0.00179371 | 7501.18 | 2895.63 | -2.59052 |
| | | | | | 5.01627E-05 | 1805.73 | 697.75 | -2.58793 |
| | | | | | 0.00358053 | 1397 | 539.95 | -2.58728 |
| | 0.000567148 | 1692.95 | 552.575 | -3.06375 | 0.00346392 | 2814.33 | 1088.35 | -2.58586 |
| | | | | | 0.0150593 | 1194.73 | 462.033 | -2.5858 |
| | 2.88298E-06 | 1128.05 | 434.133 | -2.5984 | 2.08332E-06 | 1832.98 | 709.15 | -2.58475 |
| | 0.000132204 | 540.133 | 137.075 | -3.94042 | 0.000041193 | 998.7 | 386.4 | -2.58463 |
| | | | | | 0.00368562 | 1162.3 | 449.75 | -2.58432 |
| | 9.77338E-05 | 540.35 | 200.45 | -2.69568 | 0.000262392 | 1296.1 | 501.767 | -2.58307 |
| | | | | | 0.00625599 | 1311.93 | 508.033 | -2.58236 |

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|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | 0.00104303 | 1057.83 | 409.65 | -2.58227 |
| | | | | 3.22734E-06 | 1259.7 | 487.875 | -2.58201 |
| | | | | 3.78166E-05 | 1102.88 | 427.2 | -2.58164 |
| | | | | 0.00023169 | 2031.27 | 787.1 | -2.5807 |
| | | | | 7.09233E-05 | 1109.95 | 430.3 | -2.57948 |
| | | | | 0.0211399 | 1506.13 | 584 | -2.57898 |
| | | | | 0.008956 | 1445.13 | 560.5 | -2.57828 |
| | | | | 0.0136529 | 1272.33 | 493.6 | -2.57766 |
| | | | | 0.000184839 | 1633.73 | 634.8 | -2.57361 |
| 0.01288 | 781.233 | 319.767 | -2.44314 | 0.000236938 | 1661.2 | 645.7 | -2.57271 |
| | | | | 2.9508E-09 | 13379.3 | 5202.57 | -2.57166 |
| | | | | 5.12103E-05 | 1445.83 | 562.425 | -2.5707 |
| | | | | 8.57965E-05 | 712.45 | 277.15 | -2.57063 |
| | | | | 0.00112153 | 827.1 | 322.033 | -2.56837 |
| | | | | 0.0188027 | 736.267 | 286.7 | -2.56807 |
| 2.22208E-05 | 1565.53 | 500.5 | -3.12792 | 2.22568E-05 | 2924.85 | 1139.05 | -2.5678 |
| | | | | 0.00595391 | 9723.25 | 3786.78 | -2.56769 |
| 2.47692E-06 | 756.475 | 300.15 | -2.52032 | 0.000162919 | 1516.45 | 590.625 | -2.56753 |
| | | | | 3.92284E-05 | 2917.78 | 1136.8 | -2.56666 |
| 0.00579583 | 543.25 | 253.2 | -2.14554 | 0.000190113 | 972.275 | 378.967 | -2.5656 |
| | | | | 0.00106347 | 1585.03 | 617.967 | -2.56492 |
| 5.37099E-05 | 645.267 | 173.5 | -3.71912 | 0.000146839 | 1155.03 | 450.35 | -2.56473 |
| | | | | 8.19576E-06 | 2827.35 | 1102.4 | -2.56472 |
| | | | | 4.89172E-05 | 1276.2 | 497.7 | -2.5642 |
| | | | | 0.0140439 | 942.3 | 368.433 | -2.55759 |
| | | | | 0.00413566 | 2121.85 | 829.7 | -2.55737 |
| | | | | 0.00597836 | 916.9 | 358.7 | -2.55618 |
| | | | | 6.23545E-06 | 2173.55 | 850.975 | -2.55419 |
| | | | | 5.20617E-05 | 2037.65 | 797.775 | -2.55417 |
| | | | | 8.49984E-05 | 1030.53 | 403.8 | -2.55209 |
| | | | | 0.00347656 | 1134.6 | 444.6 | -2.55196 |
| 3.18404E-10 | 2029.15 | 563.8 | -3.59906 | 4.09079E-07 | 2853.7 | 1118.78 | -2.55074 |
| 0.000808156 | 881.7 | 432.925 | -2.03661 | 0.000037467 | 1714.68 | 672.35 | -2.55027 |
| | | | | 0.000220722 | 866.6 | 340 | -2.54882 |
| | | | | 0.000767291 | 1146.3 | 449.8 | -2.54847 |
| | | | | 3.13098E-05 | 9115.88 | 3583.6 | -2.54378 |
| | | | | 0.0059779 | 1181.58 | 464.95 | -2.54129 |
| | | | | 0.000394804 | 3041.9 | 1198.2 | -2.53872 |
| 0.000580549 | 824.175 | 356.4 | -2.3125 | 2.93269E-05 | 1539.35 | 606.65 | -2.53746 |
| | | | | 0.0182714 | 1129.43 | 445.9 | -2.53291 |
| | | | | 0.0124591 | 932.1 | 368.05 | -2.53254 |
| | | | | 0.00028565 | 909.425 | 359.133 | -2.53228 |
| | | | | 0.0114377 | 767.633 | 303.3 | -2.53094 |
| 0.000425764 | 1522.55 | 751.433 | -2.02619 | 0.000187884 | 3448.55 | 1362.63 | -2.53081 |
| | | | | 0.00930818 | 1408.3 | 556.55 | -2.53041 |
| 5.57317E-05 | 1195.63 | 518.6 | -2.30549 | 3.11554E-06 | 2011.18 | 794.867 | -2.5302 |
| 3.91183E-05 | 1002.73 | #DIV/0! | #DIV/0! | 0.001017 | 2021.2 | 798.867 | -2.53008 |
| | | | | 1.70557E-05 | 1819.53 | 719.825 | -2.52773 |
| 0.00010803 | 589.6 | 269.9 | -2.18451 | 2.53703E-06 | 1395.3 | 552.1 | -2.52726 |
| | | | | 0.00388012 | 1046.93 | 414.933 | -2.52312 |
| | | | | 0.0108431 | 777.767 | 308.4 | -2.52194 |
| 0.0115145 | 1132.55 | 429.267 | -2.63834 | 0.00968251 | 1386.03 | 549.75 | -2.52121 |
| | | | | 0.0200057 | 1235.17 | 490.85 | -2.51638 |
| 8.65254E-05 | 846.75 | 311.133 | -2.7215 | 1.57827E-05 | 1633.65 | 649.55 | -2.51505 |
| 0.0119495 | 695.533 | 239.4 | -2.90532 | 0.000878187 | 1475.47 | 586.95 | -2.51379 |
| | | | | 0.0121397 | 746.133 | 296.833 | -2.51364 |
| 2.14518E-07 | 1101.08 | 367.9 | -2.99286 | 0.000139212 | 1609.65 | 640.55 | -2.51292 |
| | | | | 0.000436681 | 1793.57 | 713.9 | -2.51235 |
| 0.000092104 | 3312.05 | #DIV/0! | #DIV/0! | 8.27854E-05 | 7089.03 | 2822.03 | -2.51203 |
| | | | | 0.00173959 | 1271.98 | 506.475 | -2.51143 |
| | | | | 2.91347E-06 | 1765.37 | 703.033 | -2.51107 |
| | | | | 0.00109023 | 1027 | 409 | -2.511 |
| | | | | 0.00719956 | 1999.55 | 796.325 | -2.51097 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.0225109 | 605.075 | 241.1 | -2.50964 |
| | 9.66571E-05 | 1068.05 | 451.767 | -2.36416 | 4.62603E-06 | 1913.28 | 762.467 | -2.50932 |
| | | | | | 0.000824931 | 1465.83 | 584.8 | -2.50655 |
| | | | | | 0.00290233 | 875 | 349.2 | -2.50573 |
| | | | | | 2.46347E-07 | 10362.8 | 4137.73 | -2.50446 |
| | | | | | 0.00191616 | 1035.95 | 413.833 | -2.5033 |
| | | | | | 0.00847594 | 831.15 | 332.033 | -2.50321 |
| | 0.00133675 | 7263.45 | 3574.08 | -2.03226 | 0.000150903 | 19584.3 | 7825.13 | -2.50275 |
| | | | | | 0.000175782 | 2864.57 | 1145.1 | -2.50159 |
| | | | | | 1.77864E-05 | 1896.5 | 758.233 | -2.50121 |
| | | | | | 4.01257E-07 | 2233.53 | 894.2 | -2.49779 |
| -3.3682 | 2.56475E-05 | 976.75 | 312.667 | -3.12393 | 8.69682E-06 | 1021.2 | 409 | -2.49682 |
| | | | | | 0.0116049 | 1006.98 | 403.767 | -2.49395 |
| | | | | | 0.0022415 | 1410.13 | 566.1 | -2.49096 |
| | | | | | 0.00334732 | 1579.45 | 634.075 | -2.49095 |
| | 3.65359E-05 | 590.85 | 187.35 | -3.15372 | 0.00180557 | 1067.2 | 428.625 | -2.48982 |
| | | | | | 4.82284E-06 | 1356.1 | 545.125 | -2.48769 |
| | 0.000121015 | 2674.9 | 910.5 | -2.93784 | 8.99438E-05 | 2706.28 | 1088.75 | -2.48567 |
| | | | | | 0.000333884 | 1010.28 | 406.6 | -2.48469 |
| | | | | | 0.000107159 | 3850.6 | 1549.93 | -2.48438 |
| | | | | | 0.00106346 | 2027.8 | 816.5 | -2.48353 |
| | | | | | 0.0018872 | 2035 | 819.8 | -2.48231 |
| | | | | | 0.00165335 | 1060 | 427.15 | -2.48156 |
| 4.20617 | | | | | 0.00575056 | 2258.25 | 910.475 | -2.4803 |
| | 9.28956E-05 | 1301.43 | 545.133 | -2.38737 | 0.000652921 | 1488.03 | 600.1 | -2.47964 |
| -2.4574 | 0.000106505 | 1540.1 | 507.75 | -3.03319 | 0.000231206 | 1743.65 | 703.35 | -2.47906 |
| | | | | | 0.000146928 | 999.7 | 403.7 | -2.47634 |
| | | | | | 0.00702727 | 1173.77 | 474.1 | -2.47578 |
| | 0.000051197 | 814.3 | 404.45 | -2.01335 | 0.000120579 | 1697.88 | 686.8 | -2.47215 |
| | | | | | 0.000159232 | 1497.9 | 607.15 | -2.4671 |
| | | | | | 0.000509497 | 4287.77 | 1738.5 | -2.46636 |
| | 0.000441 | 1387.15 | 489.8 | -2.83207 | 0.00106383 | 2145.6 | 869.975 | -2.46628 |
| -3.0396 | 1.83455E-05 | 786.95 | 218.467 | -3.60215 | 0.00102545 | 931.475 | 377.825 | -2.46536 |
| | | | | | 1.00308E-05 | 1614.45 | 655.425 | -2.46321 |
| | | | | | 0.0207317 | 713.167 | 289.6 | -2.46259 |
| | | | | | 0.000788715 | 1963.45 | 797.55 | -2.46185 |
| | 0.0031998 | 1166.25 | 338.4 | -3.44637 | 0.00695133 | 2055.03 | 835.275 | -2.4603 |
| | | | | | 0.000111164 | 1518.85 | 617.55 | -2.45948 |
| | | | | | 0.0010585 | 1735.25 | 705.875 | -2.4583 |
| | 0.0121979 | 667.7 | 298.4 | -2.2376 | 0.000336399 | 1151.9 | 469 | -2.45608 |
| | 1.37626E-05 | 908.825 | 355.7 | -2.55503 | 6.92815E-05 | 1671.4 | 680.933 | -2.45457 |
| | | | | | 1.29503E-06 | 1691.2 | 689.075 | -2.4543 |
| | | | | | 0.00107664 | 1972.27 | 804.1 | -2.45276 |
| | | | | | 0.0133577 | 921.667 | 376.2 | -2.44994 |
| | | | | | 0.0171833 | 1288.03 | 525.9 | -2.4492 |
| | | | | | 0.0003789 | 1617 | 660.35 | -2.4487 |
| | 5.87137E-06 | 770.45 | 171.9 | -4.48197 | 8.48424E-05 | 1215.05 | 496.35 | -2.44797 |
| | 0.0107904 | 845.333 | 120.3 | -7.02688 | 0.00174544 | 1399.4 | 571.9 | -2.44693 |
| | 0.013131 | 962.975 | 450.275 | -2.13864 | 0.00537516 | 1880.47 | 768.9 | -2.44566 |
| | 0.00319374 | 672.475 | 243 | -2.76739 | 0.00420175 | 1481.73 | 605.9 | -2.44549 |
| | 0.000423561 | 2471.23 | 1205.65 | -2.0497 | 1.88655E-05 | 4587.95 | 1876.48 | -2.44498 |
| | | | | | 0.000692375 | 1123.5 | 459.533 | -2.44487 |
| | 0.000146846 | 1097.13 | 491.867 | -2.23053 | 0.000014466 | 1257.4 | 514.4 | -2.4444 |
| | 0.00092041 | 524.275 | 205.367 | -2.55287 | 0.00057616 | 999.6 | 409.1 | -2.44341 |
| | | | | | 0.000697901 | 1191.7 | 487.775 | -2.44313 |
| | 0.000166088 | 687.833 | 217.25 | -3.16609 | 0.000736138 | 933.425 | 382.2 | -2.44224 |
| | | | | | 0.00947198 | 1097.23 | 449.3 | -2.44208 |
| | 4.79805E-08 | 1882.3 | 746.6 | -2.52116 | 5.75222E-08 | 2638.23 | 1081.63 | -2.43913 |
| | | | | | 0.00040692 | 1182.78 | 485 | -2.43871 |
| | | | | | 0.00029782 | 1258.93 | 516.8 | -2.43602 |
| | 0.000412318 | 1038.18 | 505.875 | -2.05224 | 0.000120285 | 1382.63 | 567.9 | -2.43464 |
| | | | | | 0.022549 | 1214.67 | 499.1 | -2.43371 |
| | | | | | 0.0014676 | 1377.13 | 566.25 | -2.43201 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | 0.0131307 | 707.2 | 335.075 | -2.11057 | 0.000768123 | 2092.15 | 861.125 | -2.42955 |
| | | | | | 0.00183344 | 1615.17 | 665.7 | -2.42627 |
| | | | | | 0.00304684 | 1211.93 | 499.8 | -2.42484 |
| | 0.00113896 | 680.775 | 241.4 | -2.82011 | 0.00282927 | 1070.75 | 441.6 | -2.42471 |
| | | | | | 0.00127729 | 2134.95 | 881.033 | -2.42323 |
| | 0.00526736 | 651.65 | 201.1 | -3.24043 | 0.00156579 | 979.025 | 404.367 | -2.42113 |
| | | | | | 0.000488014 | 4073.43 | 1682.95 | -2.42041 |
| | | | | | 0.0161852 | 1279.83 | 528.85 | -2.42002 |
| | 4.62152E-05 | 644.775 | 313.375 | -2.05752 | 1.90066E-05 | 1000.45 | 413.45 | -2.41976 |
| | | | | | 0.0048774 | 2311.17 | 956.2 | -2.41703 |
| | 0.000127793 | 1959.45 | 550.467 | -3.55962 | 0.00704726 | 2691.75 | 1113.68 | -2.417 |
| | | | | | 0.000231698 | 1541.4 | 637.9 | -2.41637 |
| | | | | | 0.00175182 | 1528.45 | 633.05 | -2.41442 |
| | | | | | 1.35368E-08 | 1396.03 | 578.475 | -2.41328 |
| | | | | | 5.51057E-05 | 1798.13 | 745.5 | -2.41197 |
| | 0.000508055 | 962.2 | 422.675 | -2.27645 | 0.000279234 | 2033.78 | 843.575 | -2.4109 |
| | | | | | 0.00612486 | 1261.4 | 523.775 | -2.40829 |
| | | | | | 0.00412833 | 502.7 | 208.8 | -2.40757 |
| | 2.03976E-05 | 648.65 | 252.233 | -2.57163 | 0.000377442 | 956.925 | 397.6 | -2.40675 |
| | | | | | 0.00708671 | 1299.15 | 539.8 | -2.40672 |
| | | | | | 0.00991132 | 706.55 | 293.6 | -2.40651 |
| | | | | | 0.0078273 | 961.45 | 399.95 | -2.40393 |
| | 2.81709E-05 | 5993.5 | 2837.2 | -2.11247 | 4.48833E-06 | 12777.4 | 5316.95 | -2.40314 |
| | 6.40177E-06 | 810.45 | 259.233 | -3.12633 | 8.47141E-05 | 1381.65 | 575.267 | -2.40176 |
| | 0.00063788 | 2765.15 | 913.325 | -3.02756 | 0.00456975 | 1730.58 | 720.725 | -2.40116 |
| | | | | | 0.00994371 | 1171.85 | 488.325 | -2.39973 |
| | | | | | 0.00796724 | 1978.2 | 824.7 | -2.39869 |
| | | | | | 0.000019071 | 1567.17 | 653.7 | -2.39738 |
| | 0.000207077 | 4298.38 | 2101.2 | -2.04568 | 4.13575E-05 | 8657.03 | 3621.68 | -2.39034 |
| | 2.22827E-05 | 1031.4 | 391.95 | -2.63146 | 0.000117527 | 1846.53 | 772.5 | -2.39032 |
| | | | | | 0.00157512 | 915.467 | 383 | -2.39025 |
| | | | | | 0.000855211 | 1513.87 | 633.567 | -2.38944 |
| | | | | | 0.000965682 | 1230.05 | 514.95 | -2.38868 |
| | 0.00848109 | 608.2 | 286.4 | -2.1236 | 0.000961691 | 1587.43 | 664.6 | -2.38855 |
| | | | | | 0.000182358 | 1400 | 586.15 | -2.38847 |
| | | | | | 0.0200827 | 1677.2 | 702.55 | -2.3873 |
| | | | | | 0.00484435 | 1018.45 | 426.975 | -2.38527 |
| | 5.76223E-07 | 1011 | 284.2 | -3.55735 | 0.000616846 | 1826.3 | 766.175 | -2.38366 |
| | | | | | 1.05709E-06 | 2301.15 | 965.6 | -2.38313 |
| | | | | | 6.193E-07 | 3477.53 | 1460.63 | -2.38085 |
| | 0.00289486 | 907.825 | 341.267 | -2.66016 | 0.000110401 | 2583.35 | 1085.4 | -2.38009 |
| | 0.00698115 | 2005.15 | 677.675 | -2.95887 | 0.00840709 | 1870.53 | 786.025 | -2.37973 |
| | | | | | 0.0179672 | 3552.03 | 1492.88 | -2.37932 |
| | | | | | 0.00589613 | 1476.68 | 621.267 | -2.37688 |
| | | | | | 0.000241756 | 1304.9 | 549.1 | -2.37643 |
| -2.3437 | 6.41499E-05 | 727.95 | 317.85 | -2.29023 | 1.72039E-05 | 917.225 | 386.1 | -2.37562 |
| | 0.0106653 | 1209.7 | #DIV/0! | #DIV/0! | 0.00224951 | 2159.15 | 909.4 | -2.37426 |
| | 3.27664E-08 | 818.9 | 240.6 | -3.40357 | 0.000235699 | 1028.73 | 434.35 | -2.36842 |
| | | | | | 0.000280667 | 1269.58 | 536.275 | -2.3674 |
| | | | | | 0.000599604 | 1198.43 | 506.55 | -2.36587 |
| | | | | | 2.35555E-05 | 1690.95 | 715.25 | -2.36414 |
| | | | | | 0.00182202 | 739.95 | 313.333 | -2.36154 |
| | | | | | 0.00189431 | 1637.88 | 694.025 | -2.35997 |
| | | | | | 0.000745948 | 919.067 | 389.7 | -2.3584 |
| | | | | | 0.00684435 | 1864.55 | 790.675 | -2.35817 |
| | 0.00398216 | 754.433 | #DIV/0! | #DIV/0! | 0.0150123 | 1291.93 | 547.875 | -2.35807 |
| | | | | | 1.61318E-07 | 1502.87 | 637.775 | -2.35642 |
| | | | | | 0.00169152 | 1201.73 | 510 | -2.35634 |
| | | | | | 0.0124813 | 2381.73 | 1011.28 | -2.35517 |
| | 0.00027381 | 652.033 | 188.4 | -3.4609 | 0.0118758 | 1100.43 | 467.333 | -2.35469 |
| | 8.27103E-07 | 916.325 | 406.233 | -2.25566 | 2.72564E-08 | 1181 | 501.6 | -2.35447 |
| | | | | | 0.000210934 | 1064.78 | 452.425 | -2.35348 |
| | 0.00839804 | 652.867 | #DIV/0! | #DIV/0! | 0.00188221 | 1229.43 | 522.75 | -2.35184 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| -2.3108 | 1.44249E-08 | 4193.78 | 992.55 | -4.22525 | 1.81159E-05 | 2484.43 | 1056.43 | -2.35173 |
| | | | | | 0.00272546 | 1223.5 | 520.567 | -2.35032 |
| | | | | | 5.83643E-05 | 1631.7 | 694.767 | -2.34856 |
| | 7.84721E-05 | 903.9 | 236.75 | -3.81795 | 0.0225218 | 1206.38 | 513.9 | -2.34749 |
| | 0.000147407 | 737.6 | 229.833 | -3.20928 | 0.000513954 | 1389.53 | 592.1 | -2.34679 |
| | | | | | 0.00481889 | 1253.75 | 534.325 | -2.34642 |
| | | | | | 0.000212632 | 3481.05 | 1484.05 | -2.34564 |
| | | | | | 0.00630208 | 1131.73 | 482.7 | -2.34459 |
| | | | | | 0.000108424 | 1855.97 | 793.767 | -2.33818 |
| | | | | | 0.00031603 | 1680.53 | 719.025 | -2.33723 |
| | | | | | 0.0032547 | 2309.78 | 988.567 | -2.33649 |
| | 1.65007E-05 | 17512.2 | 7767.83 | -2.25446 | 3.86178E-06 | 36336.9 | 15555.4 | -2.33597 |
| | 0.000241583 | 2320.95 | 936.6 | -2.47806 | 2.93952E-05 | 3152.43 | 1349.73 | -2.33561 |
| | | | | | 2.58906E-08 | 1786.18 | 764.9 | -2.33517 |
| | 0.000198379 | 728.7 | 255.8 | -2.84871 | 8.92661E-05 | 1072.93 | 459.5 | -2.33498 |
| | 3.23449E-06 | 2674.2 | 1243.85 | -2.14994 | 1.6915E-06 | 5089.93 | 2180.4 | -2.3344 |
| | 8.17414E-05 | 2144.25 | 694.533 | -3.08732 | 0.000444799 | 3604.3 | 1544 | -2.33439 |
| | | | | | 0.000987278 | 1983 | 849.667 | -2.33386 |
| | | | | | 0.00973111 | 778.85 | 333.867 | -2.33282 |
| -2.3564 | 1.21713E-08 | 2219.08 | 904.05 | -2.45459 | 4.55139E-08 | 2210.53 | 949.125 | -2.32901 |
| | 1.60238E-06 | 721.5 | 185.55 | -3.88844 | 0.000387041 | 1352.83 | 581.267 | -2.32737 |
| | | | | | 0.00700735 | 846.875 | 363.9 | -2.32722 |
| | | | | | 0.00024875 | 1459.33 | 627.733 | -2.32477 |
| | | | | | 3.89507E-05 | 1325.88 | 570.367 | -2.3246 |
| | | | | | 0.00124126 | 806.15 | 347.3 | -2.32119 |
| | | | | | 1.63113E-06 | 1770.83 | 763.5 | -2.31936 |
| | | | | | 0.000565809 | 1771.45 | 764.433 | -2.31734 |
| | | | | | 0.00137606 | 3319.33 | 1432.8 | -2.31667 |
| | 0.000110634 | 795.525 | 284.2 | -2.79917 | 3.57147E-05 | 1430.03 | 617.3 | -2.31658 |
| | | | | | 4.40362E-05 | 3996.5 | 1725.4 | -2.31627 |
| | 0.000469327 | 721.633 | 298 | -2.42159 | 0.00151206 | 1723.5 | 746.1 | -2.31001 |
| | | | | | 0.0119328 | 2228.47 | 964.767 | -2.30985 |
| | | | | | 0.000503762 | 788.3 | 341.35 | -2.30936 |
| | 0.000482405 | 1204.08 | 576.7 | -2.08787 | 0.000021179 | 1873.03 | 811.675 | -2.3076 |
| | | | | | 4.58365E-05 | 1240.23 | 537.6 | -2.30697 |
| | | | | | 0.000570369 | 1669.47 | 723.833 | -2.30642 |
| | 6.29753E-05 | 3086.63 | 1266.73 | -2.4367 | 3.16233E-05 | 5446.78 | 2362.1 | -2.3059 |
| | 0.000028287 | 3309.98 | 1338.68 | -2.47258 | 7.95616E-05 | 5349.28 | 2320.1 | -2.30562 |
| | | | | | 0.00389199 | 1496.83 | 649.7 | -2.30387 |
| | | | | | 0.0155222 | 2977.88 | 1294.47 | -2.30046 |
| | | | | | 0.000785081 | 1100.73 | 478.6 | -2.2999 |
| | 1.80379E-05 | 919 | 393.9 | -2.33308 | 0.000238204 | 1801.17 | 783.475 | -2.29895 |
| | | | | | 6.6136E-07 | 30858.8 | 13431 | -2.29758 |
| | | | | | 3.93731E-05 | 1105.28 | 481.175 | -2.29703 |
| | | | | | 0.0119839 | 618.567 | 269.4 | -2.29609 |
| | | | | | 0.00102089 | 704.333 | 307.2 | -2.29275 |
| | | | | | 2.07125E-11 | 263348 | 115143 | -2.28713 |
| | | | | | 6.23151E-07 | 1856.17 | 811.667 | -2.28686 |
| | | | | | 0.000894181 | 1836.13 | 803.65 | -2.28473 |
| | | | | | 0.00127888 | 4560.78 | 1996.5 | -2.28439 |
| | | | | | 0.00118236 | 1742.43 | 762.9 | -2.28395 |
| | | | | | 0.000536618 | 956.525 | 418.967 | -2.28306 |
| | | | | | 0.0205376 | 1394.9 | 611.2 | -2.28223 |
| -3.7019 | 2.22387E-08 | 2043.65 | 465.575 | -4.38952 | 4.30259E-05 | 1652.63 | 724.467 | -2.28116 |
| | 0.000117156 | 1448.9 | 654.45 | -2.21392 | 0.00013524 | 2076.43 | 910.6 | -2.28028 |
| | | | | | 0.000113665 | 3471.8 | 1523.58 | -2.27872 |
| | | | | | 0.00586666 | 2535.25 | 1113.3 | -2.27724 |
| | 0.00216519 | 2007.33 | 827.8 | -2.42489 | 0.0019659 | 3140.38 | 1379.1 | -2.27712 |
| | | | | | 1.43176E-05 | 2269.85 | 997.3 | -2.276 |
| | | | | | 0.000286005 | 2188.97 | 962.167 | -2.27504 |
| | 2.65362E-06 | 7248 | 3271.5 | -2.2155 | 3.93435E-06 | 5167.6 | 2274.9 | -2.27157 |
| | | | | | 0.0120025 | 1356.73 | 597.9 | -2.26915 |
| | 0.000276443 | 1739.58 | #DIV/0! | #DIV/0! | 2.63988E-06 | 3673.93 | 1620 | -2.26785 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| -2.5527 | 7.83877E-09 | 7095.8 | 1716.7 | -4.1334 | 2.89631E-05 | 3763.75 | 1659.78 | -2.26763 |
| | | | | | 0.0142927 | 1573 | 693.9 | -2.2669 |
| | | | | | 0.0186789 | 1766.33 | 779.2 | -2.26684 |
| | | | | | 0.020114 | 821.367 | 362.767 | -2.26417 |
| | | | | | 0.0136602 | 1779.68 | 786.233 | -2.26355 |
| | | | | | 3.03909E-06 | 1798.65 | 794.725 | -2.26324 |
| | | | | | 4.93366E-06 | 1435.03 | 634.3 | -2.26238 |
| | | | | | 0.00470582 | 1625.35 | 718.6 | -2.26183 |
| | | | | | 0.000211706 | 1035.93 | 458.2 | -2.26086 |
| | | | | | 0.000129693 | 2308.28 | 1021.3 | -2.26013 |
| | 3.97412E-06 | 1299.8 | 533 | -2.43865 | 1.33289E-06 | 1694.88 | 749.95 | -2.25998 |
| -3.3968 | 0.00041298 | 1722.1 | 623.825 | -2.76055 | 0.00228107 | 977.825 | 433.133 | -2.25756 |
| | | | | | 0.0141017 | 766.4 | 339.567 | -2.25699 |
| | | | | | 0.00157586 | 904.833 | 400.925 | -2.25686 |
| | 0.0030563 | 618.325 | 175.6 | -3.52121 | 0.0158005 | 1096.95 | 486.1 | -2.25663 |
| | 5.12097E-10 | 638.4 | 215.1 | -2.96792 | 1.82342E-06 | 1087.55 | 482.275 | -2.25504 |
| | | | | | 0.000186542 | 1438.73 | 638.15 | -2.25452 |
| | | | | | 0.00172706 | 1145.58 | 508.2 | -2.25418 |
| | | | | | 0.00370568 | 4978.18 | 2210.13 | -2.25244 |
| | | | | | 0.00124535 | 1224.73 | 544.25 | -2.25031 |
| | | | | | 0.00930853 | 1756.17 | 781.175 | -2.24811 |
| | | | | | 0.000131128 | 1944 | 865.133 | -2.24705 |
| | | | | | 0.000072352 | 2070.78 | 922.05 | -2.24584 |
| | 1.05023E-05 | 1284.13 | 566.3 | -2.26757 | 3.71362E-05 | 1738.63 | 775.025 | -2.24331 |
| -3.273 | 0.000287296 | 2717.18 | 1114.25 | -2.43857 | 0.00517322 | 1397.43 | 623.467 | -2.24139 |
| | | | | | 0.00183575 | 1297.4 | 579.925 | -2.23719 |
| | 1.92533E-06 | 988.25 | 357.75 | -2.7624 | 0.000082631 | 1293.95 | 578.525 | -2.23664 |
| | | | | | 4.22666E-05 | 936.275 | 418.667 | -2.23633 |
| | | | | | 0.000768503 | 2430.5 | 1087.33 | -2.2353 |
| | | | | | 0.00149111 | 939.067 | 420.9 | -2.23109 |
| | | | | | 0.0114634 | 913.825 | 409.7 | -2.23047 |
| | | | | | 0.00431385 | 3645.6 | 1634.65 | -2.2302 |
| -2.1716 | 5.1194E-09 | 1537.2 | 399.9 | -3.84396 | 7.36333E-05 | 1638.33 | 734.933 | -2.22923 |
| | | | | | 0.00080267 | 1496.1 | 671.8 | -2.227 |
| | | | | | 0.0067237 | 1383.4 | 621.2 | -2.22698 |
| | | | | | 5.05239E-05 | 1959.8 | 880.75 | -2.22515 |
| | | | | | 0.0113929 | 2570.33 | 1159.1 | -2.21753 |
| | | | | | 1.99648E-05 | 1492.8 | 673.433 | -2.2167 |
| | 0.000475803 | 775.325 | 288.5 | -2.68744 | 0.000146378 | 1598.58 | 721.55 | -2.21547 |
| | | | | | 0.00004967 | 2168.45 | 979.2 | -2.21451 |
| | | | | | 0.000986778 | 1023.25 | 463.425 | -2.20802 |
| | | | | | 4.8296E-06 | 1519.78 | 688.4 | -2.20769 |
| | | | | | 0.0219373 | 1178.25 | 533.85 | -2.20708 |
| | | | | | 0.00604405 | 819.45 | 371.7 | -2.2046 |
| | 1.87694E-06 | 10745.5 | 4243.73 | -2.5321 | 1.54564E-05 | 17817.6 | 8093.93 | -2.20135 |
| | | | | | 0.000779759 | 2085.35 | 948.2 | -2.19927 |
| | | | | | 0.00670036 | 1147.53 | 522.075 | -2.19801 |
| | | | | | 0.0178246 | 847.025 | 385.6 | -2.19664 |
| | 9.34479E-06 | 516.8 | 204.375 | -2.52869 | 0.000663151 | 934.1 | 425.55 | -2.19504 |
| | 3.03688E-05 | 2130.93 | 915.975 | -2.3264 | 6.04149E-06 | 2205.98 | 1005.23 | -2.19451 |
| | | | | | 0.00248437 | 1457.28 | 665.025 | -2.19131 |
| | 0.00303466 | 709.825 | 326 | -2.17738 | 3.97519E-05 | 1669 | 763.55 | -2.18584 |
| | | | | | 0.000483521 | 764.867 | 350.5 | -2.18222 |
| -2.3601 | 8.37926E-06 | 1455.48 | 577.1 | -2.52205 | 5.12966E-05 | 1694.2 | 776.375 | -2.18219 |
| -2.4325 | 1.16481E-09 | 2678.38 | 776.225 | -3.45051 | 2.5746E-06 | 3434.95 | 1575 | -2.18092 |
| -2.1955 | 1.32802E-06 | 2806.7 | 911.95 | -3.07769 | 0.00131456 | 1727 | 791.875 | -2.1809 |
| | | | | | 0.000072 | 934.667 | 428.75 | -2.17998 |
| | | | | | 0.00216175 | 1631.53 | 748.433 | -2.17992 |
| | | | | | 5.40227E-06 | 3073.93 | 1410.67 | -2.17906 |
| | 6.09871E-06 | 1487.7 | 589.833 | -2.52224 | 5.11336E-07 | 2886.18 | 1324.85 | -2.17849 |
| | 4.73759E-05 | 872.525 | 282.2 | -3.09187 | 0.000138789 | 1249.4 | 573.8 | -2.17741 |
| | | | | | 4.11148E-05 | 1370.38 | 629.5 | -2.17693 |
| | | | | | 0.00529788 | 708.575 | 325.6 | -2.17621 |

| | | | | | | | |
|-------------|---------|---------|----------|-------------|---------|---------|----------|
| 3.47573E-09 | 1342.33 | 412.35 | -3.2553 | 3.16437E-06 | 1438.53 | 661.175 | -2.17571 |
| | | | | 0.0023353 | 1073.7 | 493.967 | -2.17363 |
| | | | | 0.00386699 | 933.825 | 430.15 | -2.17093 |
| | | | | 9.08044E-06 | 1813.58 | 835.45 | -2.17078 |
| | | | | 3.95378E-05 | 1114.53 | 513.525 | -2.17034 |
| | | | | 0.00630405 | 1620.27 | 746.8 | -2.16961 |
| 0.00292419 | 733.033 | 362.2 | -2.02384 | 0.000260725 | 1305.5 | 602.267 | -2.16764 |
| 7.34095E-07 | 548.4 | #DIV/0! | #DIV/0! | 0.000331146 | 915.933 | 422.55 | -2.16763 |
| | | | | 0.000917655 | 1113.23 | 513.633 | -2.16735 |
| 3.14717E-05 | 1030.18 | 458.15 | -2.24855 | 3.19802E-05 | 1250.23 | 577 | -2.16677 |
| | | | | 0.00837875 | 724.267 | 334.7 | -2.16393 |
| | | | | 0.000217967 | 1237.15 | 572.125 | -2.16238 |
| 0.00165569 | 1932.03 | 800.4 | -2.41382 | 0.0020442 | 3523.15 | 1629.55 | -2.16204 |
| | | | | 0.00155453 | 2158.5 | 998.675 | -2.16136 |
| 9.51457E-05 | 925.5 | 432.825 | -2.13828 | 0.00172068 | 1320.45 | 611.967 | -2.15772 |
| | | | | 0.00110074 | 2629.6 | 1219.5 | -2.15629 |
| | | | | 0.00217388 | 5059.58 | 2346.83 | -2.15592 |
| | | | | 0.0216566 | 1061 | 492.775 | -2.15311 |
| 1.56029E-07 | 1848.27 | 609.15 | -3.03417 | 5.50205E-06 | 2505.3 | 1164.63 | -2.15116 |
| | | | | 0.00512256 | 1853.77 | 862.267 | -2.14988 |
| | | | | 8.32191E-05 | 1257.63 | 585.533 | -2.14783 |
| | | | | 5.80217E-05 | 1291.83 | 602.133 | -2.14541 |
| | | | | 0.0132872 | 767.367 | 357.9 | -2.14408 |
| 0.000708833 | 805.5 | #DIV/0! | #DIV/0! | 0.000912267 | 1472.47 | 687.4 | -2.14208 |
| | | | | 0.0100902 | 1254.8 | 586.3 | -2.1402 |
| 4.11307E-05 | 798.25 | 309.833 | -2.57639 | 0.000261054 | 1753.45 | 819.45 | -2.13979 |
| | | | | 0.000513674 | 1118.65 | 523.65 | -2.13626 |
| | | | | 1.78094E-05 | 8752.53 | 4097.75 | -2.13593 |
| 0.000743834 | 649.6 | 297.2 | -2.18573 | 0.013916 | 899.633 | 421.233 | -2.13571 |
| | | | | 0.0156402 | 1062.93 | 498.2 | -2.13355 |
| | | | | 0.00808098 | 1082.55 | 507.65 | -2.13247 |
| | | | | 0.0156801 | 1496.45 | 701.8 | -2.1323 |
| 0.00271944 | 817.95 | 396.475 | -2.06306 | 0.00109423 | 1443.98 | 677.85 | -2.13023 |
| | | | | 0.00778447 | 882.55 | 414.6 | -2.12868 |
| | | | | 0.00116837 | 1858.88 | 874.1 | -2.12662 |
| | | | | 0.000055277 | 1329.2 | 626.767 | -2.12073 |
| 0.00566929 | 769.433 | #DIV/0! | #DIV/0! | 0.0111279 | 1875.08 | 884.2 | -2.12065 |
| | | | | 0.00164438 | 1355.15 | 639.1 | -2.1204 |
| | | | | 9.77945E-05 | 1618.87 | 764.75 | -2.11686 |
| 0.00489698 | 2176.1 | 1017.65 | -2.13836 | 0.001164 | 3604.6 | 1702.83 | -2.11682 |
| | | | | 0.0154709 | 1434.68 | 679.133 | -2.11251 |
| | | | | 0.00344905 | 1200.3 | 568.233 | -2.11234 |
| | | | | 4.67992E-05 | 6079.1 | 2878.7 | -2.11175 |
| | | | | 0.00212537 | 882.167 | 417.8 | -2.11146 |
| | | | | 0.000106042 | 1548.6 | 733.45 | -2.11139 |
| 0.0097435 | 932.167 | #DIV/0! | #DIV/0! | 0.000878045 | 2057.23 | 975 | -2.10997 |
| | | | | 5.89321E-05 | 1468.1 | 696.6 | -2.10752 |
| | | | | 0.00257208 | 1049.8 | 498.5 | -2.10592 |
| | | | | 5.88154E-06 | 4068.93 | 1932.45 | -2.10558 |
| | | | | 0.0186917 | 1205.1 | 572.8 | -2.10388 |
| 7.57241E-05 | 975.275 | 392.7 | -2.48351 | 0.000507777 | 1358.38 | 645.825 | -2.10332 |
| | | | | 0.00297913 | 1725.83 | 821.2 | -2.1016 |
| | | | | 4.80912E-06 | 2740.45 | 1304.73 | -2.1004 |
| | | | | 0.0225231 | 1184.43 | 564.4 | -2.09856 |
| | | | | 0.000139455 | 2656.4 | 1266.1 | -2.0981 |
| 0.00499496 | 564.975 | 268.325 | -2.10556 | 0.00823805 | 1159.43 | 552.775 | -2.09746 |
| | | | | 0.00192666 | 1705.65 | 813.55 | -2.09655 |
| | | | | 0.0022725 | 920.133 | 438.95 | -2.09621 |
| | | | | 0.00010234 | 3336.78 | 1591.9 | -2.0961 |
| | | | | 2.28558E-05 | 1009.67 | 481.767 | -2.09576 |
| 0.0030084 | 1248.87 | #DIV/0! | #DIV/0! | 0.000121083 | 2403.07 | 1146.7 | -2.09564 |
| 0.00165962 | 797.3 | 380.55 | -2.09513 | 0.00145639 | 977.1 | 466.467 | -2.09468 |
| | | | | 1.75046E-08 | 174596 | 83356.3 | -2.09457 |

| | | | | | | | | |
|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00353276 | 1122.47 | 536.833 | -2.0909 |
| | | | | | 0.00522078 | 1422.47 | 680.6 | -2.09002 |
| -2.0582 | 1.20048E-07 | 3377.85 | 1167.8 | -2.89249 | 3.48758E-05 | 3399.73 | 1627.45 | -2.08899 |
| -3.0107 | 7.30303E-13 | 6442.75 | 1845.25 | -3.49153 | 1.13835E-07 | 4786.13 | 2291.9 | -2.08828 |
| | 0.00129444 | 1016.33 | 393.767 | -2.58103 | 0.00501336 | 1426.27 | 683.067 | -2.08803 |
| | | | | | 0.00139338 | 1718.3 | 823.033 | -2.08776 |
| | | | | | 0.00199653 | 690.767 | 330.9 | -2.08754 |
| | | | | | 9.41742E-05 | 2098.25 | 1005.45 | -2.08688 |
| | | | | | 0.00231782 | 1465.95 | 703.2 | -2.08468 |
| | | | | | 0.000369266 | 2706.23 | 1298.48 | -2.08416 |
| | 0.00367013 | 926.4 | 455.2 | -2.03515 | 0.000557788 | 1765.55 | 847.2 | -2.08398 |
| | | | | | 6.54785E-05 | 1324.57 | 635.675 | -2.08372 |
| | 3.98648E-06 | 1080 | #DIV/0! | #DIV/0! | 9.42682E-05 | 1471.5 | 706.65 | -2.08236 |
| | 9.48931E-06 | 939.3 | 438.1 | -2.14403 | 8.69216E-06 | 1724.43 | 828.9 | -2.08039 |
| | 1.34318E-06 | 1267.08 | 603.975 | -2.09789 | 2.30915E-06 | 1521.55 | 731.7 | -2.07947 |
| | 0.000407669 | 708.15 | 336.775 | -2.10274 | 0.00038494 | 1188.78 | 571.85 | -2.07882 |
| | 4.72307E-05 | 1132.77 | 329.95 | -3.43315 | 0.00395283 | 1779.77 | 856.15 | -2.0788 |
| 2.29236 | | | | | 0.000113968 | 1938.3 | 933.55 | -2.07627 |
| | 0.00215026 | 713.5 | 280.467 | -2.54397 | 0.00755722 | 784.875 | 378.3 | -2.07474 |
| | | | | | 0.00652909 | 1713.63 | 827.375 | -2.07116 |
| | 1.02133E-05 | 1068.45 | 414.467 | -2.57789 | 6.44151E-05 | 2060.63 | 995.125 | -2.07072 |
| | | | | | 0.00172489 | 1122.93 | 542.5 | -2.06991 |
| | | | | | 0.000227199 | 1242.8 | 600.667 | -2.06903 |
| | | | | | 0.00143914 | 857.567 | 414.6 | -2.06842 |
| | | | | | 0.013628 | 1157.57 | 560.433 | -2.06549 |
| | | | | | 0.00380682 | 1202.93 | 582.6 | -2.06477 |
| | | | | | 0.00364938 | 1566.73 | 760.75 | -2.05946 |
| | | | | | 0.0142896 | 800.65 | 388.8 | -2.05928 |
| | 5.75409E-05 | 1234.38 | 534.9 | -2.30767 | 4.18773E-05 | 1485.95 | 722.075 | -2.05789 |
| | | | | | 1.96426E-07 | 1673.65 | 814.3 | -2.05532 |
| | | | | | 5.81238E-05 | 2816.05 | 1371.85 | -2.05274 |
| | 4.56303E-07 | 2893.15 | 1253.65 | -2.30778 | 1.23348E-05 | 3769.5 | 1838.25 | -2.05059 |
| | | | | | 0.0107798 | 666.875 | 325.233 | -2.05045 |
| | | | | | 0.0157993 | 2023.85 | 987.533 | -2.0494 |
| | | | | | 0.000672825 | 823.05 | 401.867 | -2.04807 |
| | 1.17673E-05 | 6002.88 | 2662.75 | -2.25439 | 0.000218376 | 9878.58 | 4827.48 | -2.04632 |
| | | | | | 1.69595E-05 | 1226.48 | 599.4 | -2.04617 |
| | | | | | 0.00012015 | 1729.83 | 846.825 | -2.04272 |
| | | | | | 0.00540772 | 1512.23 | 741.5 | -2.03941 |
| | | | | | 0.0117644 | 1287.38 | 631.55 | -2.03844 |
| | 0.000881323 | 1403.98 | 608.675 | -2.30661 | 0.00634026 | 1961.45 | 962.3 | -2.03829 |
| | | | | | 5.09908E-05 | 1457.3 | 715 | -2.03818 |
| -2.655 | 2.66035E-07 | 688.875 | 252.1 | -2.73255 | 0.000026082 | 1013.3 | 497.425 | -2.03709 |
| | | | | | 0.014954 | 919.933 | 451.7 | -2.0366 |
| | 0.000416807 | 1455 | 459.333 | -3.16763 | 0.0106541 | 1651.45 | 812.1 | -2.03355 |
| | | | | | 0.00615226 | 784.4 | 385.9 | -2.03265 |
| | | | | | 0.00160207 | 820.1 | 403.475 | -2.03259 |
| | | | | | 0.00858368 | 1426.4 | 702.7 | -2.02988 |
| | | | | | 0.0140127 | 1262.5 | 622.2 | -2.02909 |
| | | | | | 8.76159E-06 | 1872.85 | 923.267 | -2.0285 |
| | | | | | 1.95339E-06 | 1350.83 | 666.1 | -2.02796 |
| | | | | | 0.000343294 | 1665.33 | 821.8 | -2.02644 |
| | 0.00294476 | 1337.4 | #DIV/0! | #DIV/0! | 0.00205372 | 2213.93 | 1093.5 | -2.02463 |
| | | | | | 1.05806E-05 | 39266.7 | 19412.6 | -2.02275 |
| | 2.33444E-05 | 2674.95 | 1024.28 | -2.61155 | 0.000870127 | 4038.03 | 1997.65 | -2.02139 |
| | | | | | 0.00197549 | 2349.95 | 1162.68 | -2.02116 |
| | | | | | 0.0186596 | 3555.57 | 1760.23 | -2.01995 |
| | 6.26625E-06 | 1480.8 | 620.925 | -2.38483 | 0.000076188 | 1671.5 | 827.65 | -2.01957 |
| | | | | | 0.00688811 | 981.55 | 486.1 | -2.01923 |
| | 4.64763E-06 | 1087.65 | 428.8 | -2.5365 | 5.04771E-06 | 1468.25 | 727.367 | -2.01858 |
| | | | | | 0.0143959 | 1074.65 | 532.5 | -2.01812 |
| | 0.000104049 | 1233.15 | 571.375 | -2.15821 | 0.000177258 | 1875.08 | 929.125 | -2.01811 |
| | | | | | 0.000148192 | 1699.38 | 843.225 | -2.01533 |

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|---------|-------------|---------|---------|----------|-------------|---------|---------|----------|
| | | | | | 0.00195204 | 1091.35 | 541.7 | -2.01468 |
| | | | | | 0.0223879 | 1324.23 | 657.6 | -2.01372 |
| | 0.000143223 | 3644.75 | 1680.78 | -2.16849 | 0.000442006 | 6786.8 | 3370.68 | -2.01348 |
| | | | | | 0.00292475 | 1279.23 | 635.375 | -2.01334 |
| | | | | | 0.000692536 | 1089.78 | 541.533 | -2.01239 |
| | | | | | 1.35754E-05 | 5976.15 | 2973.7 | -2.00967 |
| | | | | | 1.45289E-05 | 1394.15 | 694.95 | -2.00612 |
| | | | | | 0.0226465 | 1027.68 | 513.2 | -2.00248 |
| | 4.50048E-08 | 1255.18 | 394.3 | -3.1833 | 0.000207058 | 1317.35 | 658.125 | -2.00167 |
| | | | | | 0.00710675 | 732.767 | 366.1 | -2.00155 |
| | | | | | 4.50658E-07 | 1203.27 | 2429.23 | 2.01886 |
| | | | | | 0.000220726 | 1165 | 2357.03 | 2.0232 |
| | | | | | 4.21433E-10 | 4858.5 | 9840.5 | 2.02542 |
| | | | | | 4.81324E-07 | 2120.55 | 4306.45 | 2.03082 |
| | | | | | 9.95915E-05 | 2388.88 | 4852.73 | 2.03139 |
| 2.91166 | 3.3602E-06 | 301.433 | 1550.38 | 5.14334 | 0.0133111 | 759.233 | 1544.28 | 2.03399 |
| | | | | | 0.000100719 | 1687.38 | 3435.7 | 2.03612 |
| | | | | | 5.14892E-05 | 1549.5 | 3170.98 | 2.04645 |
| | | | | | 1.12714E-06 | 4138.48 | 8477.58 | 2.04848 |
| | | | | | 0.000319145 | 17657.7 | 36186.5 | 2.04934 |
| -2.1518 | | | | | 0.00781941 | 416.833 | 855.75 | 2.05298 |
| | | | | | 0.000206338 | 2571.83 | 5281.3 | 2.05352 |
| | | | | | 0.000213374 | 1120 | 2311.58 | 2.06391 |
| | | | | | 8.63859E-11 | 8677.98 | 17960 | 2.06961 |
| | | | | | 3.34976E-12 | 4303.55 | 8920 | 2.07271 |
| | | | | | 6.97299E-07 | 2873.68 | 5990.1 | 2.08447 |
| | | | | | 4.89486E-05 | 1198.05 | 2499 | 2.08589 |
| | | | | | 0.00197336 | 1337.7 | 2826.43 | 2.1129 |
| 4.09583 | | | | | 0.00012765 | 2119.53 | 4484.15 | 2.11564 |
| | | | | | 0.00260608 | 1624.58 | 3454.23 | 2.12623 |
| | | | | | 2.10586E-05 | 3205.93 | 6855.78 | 2.13847 |
| | | | | | 7.43103E-07 | 1830.7 | 3928.7 | 2.14601 |
| | | | | | 9.94291E-08 | 2122.93 | 4558.08 | 2.14706 |
| | | | | | 1.50735E-06 | 1735.9 | 3745.63 | 2.15774 |
| | | | | | 6.67701E-06 | 1530.93 | 3303.95 | 2.15814 |
| | | | | | 4.90963E-06 | 1441.95 | 3124.43 | 2.16681 |
| | 5.01053E-06 | 531.233 | 1970.33 | 3.70896 | 0.000833227 | 812.3 | 1766.95 | 2.17524 |
| | | | | | 1.86633E-05 | 1197.33 | 2614.25 | 2.18339 |
| | | | | | 0.00121888 | 1547.15 | 3383.23 | 2.18675 |
| | | | | | 0.000136057 | 1086.58 | 2396.95 | 2.20597 |
| 3.37098 | 0.000631485 | 2094.55 | 4434.55 | 2.11719 | 0.000013734 | 2022.1 | 4464.08 | 2.20764 |
| | | | | | 0.0105188 | 505.967 | 1123.63 | 2.22075 |
| 2.14549 | | | | | 2.18563E-05 | 573.3 | 1294.1 | 2.25728 |
| | 0.000161419 | 1540.68 | 4122.98 | 2.67608 | 9.87556E-08 | 1380.35 | 3117.85 | 2.25874 |
| | | | | | 1.19255E-09 | 1797.5 | 4068.65 | 2.2635 |
| | | | | | 9.23603E-06 | 1260.95 | 2860.18 | 2.26827 |
| | | | | | 5.56039E-09 | 4677.88 | 10640.1 | 2.27456 |
| | 1.13503E-06 | 937.575 | 3044.08 | 3.24675 | 9.39135E-05 | 1425 | 3242.5 | 2.27544 |
| | | | | | 0.000223794 | 1396.78 | 3194.65 | 2.28716 |
| 5.87628 | 1.74694E-09 | 542.7 | 2100.1 | 3.86973 | 3.45558E-08 | 1093.15 | 2516.1 | 2.3017 |
| | | | | | 2.80285E-05 | 1644.95 | 3800.08 | 2.31015 |
| | | | | | 1.62952E-10 | 2424.68 | 5647.28 | 2.32909 |
| | | | | | 4.21065E-05 | 2204 | 5148.25 | 2.33587 |
| | | | | | 0.000145952 | 1442.13 | 3380.73 | 2.34425 |
| -2.0643 | | | | | 0.00046261 | 1727.53 | 4068.13 | 2.35489 |
| | | | | | 2.3658E-06 | 1209.4 | 2881.95 | 2.38296 |
| 2.07809 | 1.28046E-09 | 9270.48 | 22106.5 | 2.38461 | 2.59474E-09 | 6518.23 | 15564.7 | 2.38787 |
| | | | | | 9.80468E-05 | 778.133 | 1867.93 | 2.40052 |
| | | | | | 1.54258E-06 | 5540.38 | 13560.4 | 2.44755 |
| | | | | | 5.87857E-07 | 3669.45 | 9000.43 | 2.4528 |
| | | | | | 0.00525219 | 910.8 | 2248.9 | 2.46915 |
| | | | | | 3.34607E-11 | 2251.1 | 5581.5 | 2.47945 |
| 3.93277 | 3.65046E-07 | 850.3 | 2564.73 | 3.01626 | 6.98548E-05 | 1274.1 | 3192.75 | 2.50589 |

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|---------|-------------|---------|---------|---------|-------------|---------|---------|---------|
| | | | | | 2.52273E-10 | 6461.98 | 16276.7 | 2.51885 |
| | | | | | 8.40736E-07 | 1584.63 | 3992.85 | 2.51974 |
| | 0.000042532 | 4617.83 | 15023.5 | 3.25337 | 0.000714309 | 5173.85 | 13050.3 | 2.52235 |
| | | | | | 8.80085E-08 | 1470.7 | 3763.9 | 2.55926 |
| | 0.00441229 | 1201.27 | 2486.98 | 2.07029 | 5.13784E-07 | 1118.3 | 2867.68 | 2.56432 |
| | | | | | 9.40859E-08 | 489.3 | 1259.63 | 2.57434 |
| | | | | | 2.01429E-06 | 2206.63 | 5730.75 | 2.59706 |
| | | | | | 0.000158641 | 1031.08 | 2724.28 | 2.64217 |
| | 2.65827E-09 | 3847.38 | 14510.4 | 3.77149 | 1.75581E-07 | 3194.9 | 8488.33 | 2.65684 |
| 2.46502 | 1.96682E-05 | 1860.03 | 4071.3 | 2.18884 | 9.39659E-07 | 1718.83 | 4599.9 | 2.67619 |
| | | | | | 3.49543E-10 | 1609.58 | 4364.3 | 2.71146 |
| 2.19173 | | | | | 4.75794E-08 | 1087.73 | 2988.95 | 2.74789 |
| | | | | | 6.923E-09 | 6753.85 | 18915.7 | 2.80072 |
| 2.5378 | 4.53668E-09 | 7924.08 | 19930.9 | 2.51523 | 2.93964E-10 | 4938.5 | 13959.8 | 2.82673 |
| | | | | | 1.18082E-06 | 1188.25 | 3407.48 | 2.86764 |
| 4.21672 | 3.89663E-05 | 652.333 | 1394.63 | 2.1379 | 2.10151E-06 | 546 | 1569.95 | 2.87537 |
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| | 6.55249E-05 | 2100.15 | 894.425 | -2.34804 |
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formula contains a reference to a blank cell or to a cell that contains zero as a divisor.