Supplementary Material

1. **Methods**
2. **The preparation method of HRPCM**

A certain number of HR pieces added the refined honey infiltration for 1 h. Refined honey was diluted with distilled water (20% of honey). Approximately 25 g of refined honey was added to 100 g of HR pieces. The oven temperature was set to 70℃, the baking time was set to 2.5 h and the HR tablets were laid to a thickness of 3 cm in a rectangular porcelain plate. After baking in the oven, the tablets were removed, cooled and set aside.

1. **The** **chromatographic condition, Mass Spectrometry Conditions, and the method of operation**
   1. **The chromatographic condition**

Ultra-high performance liquid chromatography was Thermo UHPLC vanquish. ACQUITY UPLC HSS T3 (2.1 mm X 100 mm, 1.8 µm) was used as the chromatographic column. Mobile phase: A was 0.1% formic acid aqueous solution. B was 0.1% formic acid acetonitrile solution. Flow rate was was set in 0.3 mL/min. column temperature was set at 35℃. The following **Table M-S1** provided the gradient elution.

**Table M-S1丨The gradient elution program**

|  |  |  |
| --- | --- | --- |
| Time (min) | Mobile phase A (%) | Mobile phase B (%) |
| Initial | 95 | 5 |
| 17.0 | 2 | 98 |
| 17.2 | 95 | 5 |
| 20.0 | 95 | 5 |

* 1. **The Mass spectrum condition**

The mass spectrum parameters are shown in **Table M-S2.**

**Table M-S2丨**The mass spectrum parameters

|  |  |  |
| --- | --- | --- |
| The Mass spectrum | Thermo Q-Exactive HFX mass spectrometer. | |
| Collection mode | Positive and negative ion collection mode. | |
| Source parameters | Spray Voltage: 3800, -3000; Shealth Gas: 45; Aux Gas: 20; Spare Gas:0;  Capillary Temperature: 320℃; Probe Heater Temp: 370℃. | |
| **Full MS** | Resolution | Resolution |
| Full MS | Full MS |
| **dd-MS2** | Resolution | dd-MS2 |
| Loop count | 10 |
| TopN | 10 |

* 1. **Preparation of sample**
     1. Preparation of intestinal fluid sample

The sample of intestinal fluid was taken as 100 μL. 800 μL of methanol was added, vortexed and mixed for 60 s. The sample was allowed to stand at -20℃ for 30 min and centrifuged at 16000 g for 20 min at 4℃. The supernatant was dried under vacuum. The residue was added with 100 μL of 40% aqueous methanol, vortexed, and centrifuged at 16000 g for 15 min at 4℃. The residue was added 100 μL of 40% aqueous methanol solution, vortexed and centrifuged at 16000 g for 15 min at 4℃, and the supernatant was taken and obtained.

* + 1. Mensuration

The aqueous extract solution of HRCR, the blank intestinal absorbent sample, and the medicated intestinal absorption solution of HRCR were sucked up 6 μL each, and analyzed by LC-MS. Each sample was injected into 1 needle.

* + 1. Identification of compounds

The raw data files in .raw format were imported into proteoWizard and converted to .mzXML format.XCMS software was used for peak alignment, retention time correction and peak extraction. The XCMS software was used for peak alignment, retention time correction and peak extraction.The data extracted by XCMS were then matched with the standard spectral database for structural identification.

The match of the secondary mass spectrometry (MS2) was mainly reflected in the secondary fragmentation Score, which totaled 1. The higher the score, the more reliable the identification result. The higher the score, the more reliable the identification results. It was generally recognized that if the score was above 0.7, the identification results would be more reliable.

1. **The specific intervention procedures** **for HRCR in CAC mice**

After the end of the adaptive feeding, the control mice were intraperitoneally injected with saline, whereas the mice in the other groups were administered a 10 mg/kg dose of AOM by intraperitoneal injection on the first day of the experiment. After one week, the mice were given a 2.5%-2% (w/v) DSS aqueous solution to drink at liberty for 1 week in addition to the control group. Sterile water was then given for drinking ad libitum for 2 weeks. The specific experimental details were adjusted according to the specific trial and the whole experiment lasted for 17 weeks. All intervention mice were given 0.2 mL/20g drug by gavage once a day until the day before the end of the experiment.

1. **Tables**

**Table S1│The DAI scoring** **criterion**

|  |  |  |  |
| --- | --- | --- | --- |
| Body weight loss | Stool consistency | Presence of Gross bleeding or bloodstain | Scores |
| No loss | Normal | Negative | 1 |
| 1%~5% |  |  | 2 |
| 6%~10% | Loose stools | Positive | 3 |
| 11%~15% |  |  | 4 |
| Over 15% | Diarrhea | Gross rectal bleeding | 5 |

**Table S2│The evaluation criterion of the H&E histological score.**

|  |  |  |
| --- | --- | --- |
|  | | |
| State of lesion | Scores | Criteria |
| Mucosal epithelium | 0 | No mucosa inflammation |
| 1 | Loss of <5% of the epithelial surface |
| 2 | Loss of 5-10% of the epithelial surface |
| 3 | Loss of >10% of the epithelial surface |
| Integrity of crypts | 0 | Intact crypts |
| 1 | Loss of <10% crypts |
| 2 | Loss of 10-20% crypts |
| 3 | Loss of >20% of crypts |
| Cell infiltrate and edema | 0 | None |
| 1 | Mild |
| 2 | moderate |
| 3 | severe |
| Goblet cells depletion | 0 | Absent |
| 1 | Present |

**Table S3│** **Components in HRCR-MIAS identified by UHPLC Q-Exactive-MS**

|  |  |  |
| --- | --- | --- |
|  | Compound name | PubCHEM CID |
|  | Chamissonolide | Cid\_10019140 |
|  | Verrucarol | Cid\_10038552 |
|  | Carviolin | Cid\_10040432 |
|  | Methyl 2-((3aS,4R,5S,6S)-4-hydroxy-3-(hydroxymethyl)-6-(((4-hydroxyphenyl)acetyl)oxy)-8-methyl-1-oxo-1,3a,4,5,6,7-hexahydroazulen-5-yl)prop-2-enoate | Cid\_100622832 |
|  | Dihydrogingerenone D | Cid\_100642075 |
|  | Wistin | Cid\_10095770 |
|  | (1S,4R)-7-Isopropyl-1,4-dimethyl-2,3,3a,5,6,8a-hexahydroazulene-1,4-diol | Cid\_10105632 |
|  | ONO-AE3-208 | Cid\_10111831 |
|  | N-Acetyl-D-phenylalanine | Cid\_101184 |
|  | N-Acetyl-D-phenylalanine | Cid\_101184 |
|  | Jaeskeanadiol | Cid\_10125228 |
|  | cis-Pinonic acid | Cid\_10130 |
|  | 2-Formamidobenzoic acid | Cid\_101399 |
|  | Propenyl-L-NIO | Cid\_10198252 |
|  | 1-(3,4-Dimethoxyphenyl)-2-(ethylamino)pentan-1-one | Cid\_102144588 |
|  | 2'-O-Methyladenosine | Cid\_102213 |
|  | Fluoren-9-one | Cid\_10241 |
|  | (-)-Kainic acid | Cid\_10255 |
|  | Indole-3-carboxaldehyde | Cid\_10256 |
|  | 1,2-Benzenediol, 5-[3-(acetyloxy)-7-(3,4-dihydroxyphenyl)heptyl]-3-methoxy- | Cid\_102571606 |
|  | 1-Naphthalenepropanoic acid, 1,2,3,5,6,7,8,8a-octahydro-2-methyl-3-oxo- | Cid\_102571644 |
|  | [5-Formyl-2-(2-hydroxypropan-2-yl)-4a,6-dimethyl-2,3,4,7,8,8a-hexahydrochromen-4-yl] acetate | Cid\_102571648 |
|  | 3-(Hepta-1,3-dienyl)adipic acid | Cid\_102571693 |
|  | O6, N-Diacetylnorcodeine | Cid\_102591297 |
|  | 3-Furoic acid | Cid\_10268 |
|  | Thymoquinone | Cid\_10281 |
|  | Methylsuccinic acid | Cid\_10349 |
|  | Ile-Tyr | Cid\_103870710 |
|  | (E)-3-(3,4-Dimethoxyphenyl)-N-homoveratrylacrylamide | Cid\_1042026 |
|  | Phe-Thr | Cid\_10445608 |
|  | Garcinoic acid | Cid\_10455173 |
|  | Suberic acid | Cid\_10457 |
|  | Rhyncophylline | Cid\_10475115 |
|  | 2-(4-Allyl-2,6-dimethoxyphenoxy)-1-(3,4,5-trimethoxyphenyl)propan-1-ol | Cid\_10477119 |
|  | Pyridoxine | Cid\_1054 |
|  | Stanolone | Cid\_10635 |
|  | Parietin | Cid\_10639 |
|  | Parietin | Cid\_10639 |
|  | 1H-Indole-3-ethanol | Cid\_10685 |
|  | o-Xylorcinol | Cid\_10697 |
|  | Hovetrichoside C | Cid\_10789705 |
|  | (+)-catechin hydrate | Cid\_107957 |
|  | Daidzin | Cid\_107971 |
|  | Mefrosol | Cid\_108312 |
|  | 3-Deoxy-D-glycero-D-galacto-2-nonulosonic acid | Cid\_10869261 |
|  | .alpha.,.beta.-Trehalose | Cid\_10871590 |
|  | Sucrose 6-benzoate | Cid\_10906400 |
|  | Artemisinate | Cid\_10922465 |
|  | 3-Isobutylglutaric acid | Cid\_10976240 |
|  | 5-Aminohexylamine | Cid\_11007871 |
|  | Spermidine | Cid\_1102 |
|  | (3.beta.,6.alpha.,12.beta.,20Z)-3,12-Dihydroxydammara-20(22),24-dien-6-yl 2-O-(6-deoxy-.alpha.-L-mannopyranosyl)-.beta.-D-glucopyranoside | Cid\_110208996 |
|  | [(3aR,4S,6R,11aR)-6,9-dihydroxy-6,10-dimethyl-3-methylidene-2,7-dioxo-3a,4,5,8,9,11a-hexahydrocyclodeca[b]furan-4-yl] 2-methylprop-2-enoate | Cid\_110281983 |
|  | Graveolide | Cid\_11043090 |
|  | 2'-Hydroxy-4'-methoxyacetophenone | Cid\_11092 |
|  | 3-Ureidopropionic acid | Cid\_111 |
|  | Succinic acid | Cid\_1110 |
|  | .alpha.,.beta.-glucooctanoic .gamma.-lactone | Cid\_111248 |
|  | bk-EABDI | Cid\_112477320 |
|  | vitamin B1 | Cid\_1130 |
|  | N-(2-Hydroxyethyl)-3-nitro-1H-1,2,4-triazole-1-acetamide | Cid\_113639 |
|  | Mellein | Cid\_114679 |
|  | Encecalin | Cid\_114703 |
|  | Liquiritigenin | Cid\_114829 |
|  | Stachydrine | Cid\_115244 |
|  | Pro-Pro | Cid\_11622593 |
|  | Isopetasol | Cid\_11746594 |
|  | Gentianose | Cid\_117678 |
|  | Antibiotic NFAT 133 | Cid\_11778214 |
|  | Vanillin | Cid\_1183 |
|  | (1aR,2S,2aS,5R,5aS,6S,7aS)-2-(Acetyloxy)-5-hydroxy-2a,7a-dimethyl-5-(propan-2-yl)decahydroazuleno[5,6-b]oxiren-6-yl (2Z)-2-methylbut-2-enoate | Cid\_11876148 |
|  | Ilicic acid | Cid\_11876195 |
|  | 5-Fluoro ABICA | Cid\_118796498 |
|  | 9-.beta.-D-Ribofuranosylxanthine | Cid\_1189 |
|  | 4-Hydroxymephenytoin | Cid\_119507 |
|  | Veliparib | Cid\_11960529 |
|  | 4-Hydroxy-3-methoxyphenyl .beta.-D-glucopyranoside | Cid\_11962143 |
|  | Isocitric acid | Cid\_1198 |
|  | Dihydrophaseic acid | Cid\_11988273 |
|  | Dihydrophaseic acid | Cid\_11988273 |
|  | (-)-Myrtenal | Cid\_1201529 |
|  | Carbamylglutamic acid | Cid\_121396 |
|  | Nortramadol | Cid\_12149038 |
|  | 5-Fluoro ADB-PINACA | Cid\_121491656 |
|  | D-Arabinonic acid | Cid\_122045 |
|  | (2E)-5-Hydroxyundec-2-enoic acid | Cid\_12227668 |
|  | U 80278A | Cid\_122334 |
|  | Fustin | Cid\_12310641 |
|  | (3aS,6S,7R,8aR)-8-Hydroxy-6,8-dimethyl-3-methylidenehexahydro-3'H-spiro[cyclohepta[b]furan-7,2'-furan]-2,5'(3H,4'H)-dione | Cid\_12314731 |
|  | Propylurofuranic acid | Cid\_123979 |
|  | Fraxinellone | Cid\_124039 |
|  | Glu-Leu | Cid\_124433150 |
|  | Thr-Leu | Cid\_124433152 |
|  | N-(5-Chloro-2-pyridyl)-5-propylthiophene-3-carboxamide | Cid\_1246828 |
|  | 6-O-((2Z)-3-(4-Hydroxy-3-methoxyphenyl)prop-2-enoyl)-.beta.-D-fructofuranosyl 6-O-acetyl-.alpha.-D-glucopyranoside | Cid\_125416603 |
|  | 5'-Adenylic acid, 2'-deoxy- | Cid\_12599 |
|  | 4-Formylphenol | Cid\_126 |
|  | L-Homoserine | Cid\_12647 |
|  | Dodecanedioic acid | Cid\_12736 |
|  | Dodecanedioic acid | Cid\_12736 |
|  | Isoflupredone | Cid\_127516 |
|  | Galactonic acid | Cid\_128869 |
|  | 1,2,3-Cyclohexanetriol, 5-(1,3-heptadien-1-yl)- | Cid\_128964467 |
|  | (E)-3,10-Dihydroxy-4,9-dimethyldodec-6-enedioic acid | Cid\_129008872 |
|  | 1'R,3'S,5'R,8'S,2E,4E)-Dihydrophaseic acid 3'-O-.beta.-D-glucopyranoside | Cid\_129008896 |
|  | (2E,4E)-5-(3,8-Dihydroxy-1,5-dimethyl-7-oxo-6-oxabicyclo[3.2.1]octan-8-yl)-3-methylpenta-2,4-dienoic acid | Cid\_129008948 |
|  | 2-(Hydroxy(7a-hydroxy-3-oxo-5-(propan-2-yl)octahydro-2-benzofuran-4-yl)methyl)prop-2-enoic acid | Cid\_129008965 |
|  | 1-O-((2E,4E)-9-Carboxy-8-hydroxy-2,7-dimethylnona-2,4-dienoyl)hexitol | Cid\_129008967 |
|  | 8-Hydroxy-3-(7-hydroxyheptyl)-6-oxo-3,4-dihydroisochromene-7-carboxylic acid | Cid\_129008974 |
|  | Methyl (9Z,14Z)-12,13,16-trihydroxyoctadeca-9,14-dienoate | Cid\_129008998 |
|  | 12,15-Octadecadienoic acid, 7,9,10-trihydroxy- | Cid\_129008999 |
|  | 12,15-Octadecadienoic acid, 7,9,10-trihydroxy- | Cid\_129008999 |
|  | Ethyl 4-O-(4-carboxy-3-hydroxy-3-methylbutanoyl)-.beta.-D-glucopyranoside | Cid\_129009008 |
|  | (-)-Tamsulosin | Cid\_129211 |
|  | Symplocosin | Cid\_129316934 |
|  | Koninginin D | Cid\_12971673 |
|  | 3-Aminopropyl(cyclohexylmethyl)phosphinic acid | Cid\_130022 |
|  | Ala-Tyr | Cid\_13017548 |
|  | Auranthine | Cid\_130919 |
|  | Cimetidine amide | Cid\_131743 |
|  | 4-Oxododecanedioic acid | Cid\_13213508 |
|  | Aegineoside | Cid\_132353271 |
|  | L-NG-Monomethylarginine | Cid\_132862 |
|  | Ivabradine | Cid\_132999 |
|  | PyroGlu-Pro | Cid\_13306588 |
|  | Soyasaponin II | Cid\_13326381 |
|  | 3-Hydroxypicolinic acid | Cid\_13401 |
|  | Trigonelline hcl | Cid\_134606 |
|  | (3Z,6E)-2,2,6-trimethyl-12-oxabicyclo[8.2.1]trideca-3,6,10(13)-triene-5,11-dione | Cid\_134723072 |
|  | Prespatane | Cid\_134745718 |
|  | 4-Hydroxybenzoic acid | Cid\_135 |
|  | 3',5'-Cyclic GMP | Cid\_135398570 |
|  | Guanosine | Cid\_135398635 |
|  | Guanosine | Cid\_135398635 |
|  | Hypoxanthine | Cid\_135398638 |
|  | Inosine | Cid\_135398641 |
|  | Inosine | Cid\_135398641 |
|  | Folinic acid | Cid\_135403648 |
|  | 2-o-methylguanosine | Cid\_135406950 |
|  | 2-[2-(2-Quinolinyl)ethenyl]phenol | Cid\_135411330 |
|  | AL 34662 | Cid\_135453290 |
|  | 3-(1H-benzimidazol-2-yl)-2H-indazole | Cid\_135464491 |
|  | N,N-Dimethylguanosine | Cid\_135501639 |
|  | 6-Isopropylpyrimidin-4-ol | Cid\_135591005 |
|  | TC-E 5008 | Cid\_13590964 |
|  | Cyclic GMP | Cid\_136239427 |
|  | 2'-Deoxyadenosine | Cid\_13730 |
|  | Cyclopropylacetic acid | Cid\_138440 |
|  | Ethyl 4-bromo-3,5-dimethyl-1H-pyrrole-2-carboxylate | Cid\_138486 |
|  | Shanziside methyl ester | Cid\_13892722 |
|  | Isoflavone base + 1O, 1MeO, O-Hex+C7H12NO | Cid\_139292014 |
|  | Isoflavanone base + 3O, O-Hex | Cid\_139292064 |
|  | N-Fructosyl pyroglutamate | Cid\_139292107 |
|  | N-fructosyl isoleucine | Cid\_139292115 |
|  | Feruloyl Lactate | Cid\_139292180 |
|  | PyroGlu-Phe | Cid\_13961383 |
|  | Odoratin | Cid\_13965473 |
|  | Odoratin | Cid\_13965473 |
|  | Galdosol | Cid\_13966127 |
|  | Epipinoresinol-4,4'-di-O-.beta.-D-glucopyranoside | Cid\_13991182 |
|  | 5,9-Dihydroxy-5,7,7-trimethyl-4,5a,6,8,8a,9-hexahydro-1H-azuleno[5,6-c]furan-3-one | Cid\_13995409 |
|  | 8-Hydroxy-5,8a-dimethyl-3-methylidene-3a,4,4a,8,9,9a-hexahydrobenzo[f][1]benzofuran-2,7-dione | Cid\_14021268 |
|  | a-Santal-10-en-12-oic acid | Cid\_14059029 |
|  | 2-Acetylpyrrole | Cid\_14079 |
|  | Benzyl alcohol + hex-pen | Cid\_14079044 |
|  | 2-(3,4-Dihydroxyphenyl)-5,7-dihydroxy-3,4-dihydro-2H-chromen-3-yl .beta.-D-glucopyranoside | Cid\_14104308 |
|  | Curdione | Cid\_14106072 |
|  | 4-(Hexopyranosyloxy)-3-methoxybenzoic acid | Cid\_14132336 |
|  | Benzoic acid + 1o, 2meo, o-hex | Cid\_14132345 |
|  | 10-Hydroxy-1,6-dimethyl-9-(propan-2-yl)-5,12-dioxatricyclo[9.1.0.04,6]dodecan-8-yl (2E)-3-phenylprop-2-enoate | Cid\_14155777 |
|  | 9-Phenyl-1-(2,4,6-trihydroxyphenyl)nonan-1-one | Cid\_14186891 |
|  | (9a-Hydroxy-3,8a-dimethyl-5-methylidene-2-oxo-4,4a,6,7,8,9-hexahydrobenzo[f][1]benzofuran-8-yl) acetate | Cid\_14258971 |
|  | Urospermal | Cid\_14287067 |
|  | 3a,8-Dihydroxy-3,5a,9-trimethyl-4,5,6,7,8,9b-hexahydro-3H-naphtho[6,5-d]furan-2-one | Cid\_14312974 |
|  | 9,13,15-Trihydroxy-5-methyl-4-oxabicyclo[10.4.0]hexadeca-1(12),13,15-triene-3,11-dione | Cid\_14314902 |
|  | Loliolide | Cid\_14334 |
|  | 6-Hydroxy-5-methoxyflavone | Cid\_14349485 |
|  | 4-(.beta.-D-Glucopyranosyloxy)benzeneacetic acid | Cid\_14352568 |
|  | Hannokinol | Cid\_14427394 |
|  | 3,8a-Dimethyl-5-methylene-4a,6,7,8-tetrahydro-4H-benzo[f]benzofuran-2-one | Cid\_14448072 |
|  | 1-(3,4-Dihydroxyphenyl)-2,3-dimethyltetralin-6,7-diol | Cid\_14462042 |
|  | Valylphenylalanine | Cid\_144746 |
|  | 2',6'-Glycoloxylidide | Cid\_14480057 |
|  | 3-(4-Hydroxyphenyl)-3-oxopropanoic acid | Cid\_14496584 |
|  | Fenchone | Cid\_14525 |
|  | 3,7-Dihydroxy-9,11-eremophiladien-8-one | Cid\_14543486 |
|  | L-Proline | Cid\_145742 |
|  | Coumaroyl + c6h9o8 (isomer of 844, 845, 846) | Cid\_145994453 |
|  | Galangin-5,7-dimethyl ether | Cid\_14606540 |
|  | Galangin-5,7-dimethyl ether | Cid\_14606540 |
|  | Oroxyloside | Cid\_14655552 |
|  | [(E)-3-Acetyloxy-6,7-dihydroxy-7-(6-oxo-2,3-dihydropyran-2-yl)hept-4-en-2-yl] acetate | Cid\_14757875 |
|  | Platyphylloside | Cid\_14833392 |
|  | .beta.-Resorcylic acid | Cid\_1491 |
|  | Aloin | Cid\_14989 |
|  | 3-Methylisoleucine | Cid\_15042684 |
|  | Pentalenolactone D | Cid\_15127669 |
|  | Altamisic acid | Cid\_15143694 |
|  | Pro-Val | Cid\_152307 |
|  | N-[4-(2-Aminoethyl)phenyl]benzenesulfonamide | Cid\_15281645 |
|  | 5-Allylvanillin | Cid\_1533806 |
|  | Cinnarizine | Cid\_1547484 |
|  | Coniferyl alcohol | Cid\_1549095 |
|  | DL-Laudanosine | Cid\_15548 |
|  | Atractylenolide III | Cid\_155948 |
|  | Methyl ursolate acetate | Cid\_15598285 |
|  | ((1S,5Z,9R,10R)-6-(Hydroxymethyl)-10-methyl-2-methylidene-7-oxobicyclo[7.2.0]undec-5-en-10-yl)methyl acetate | Cid\_15601259 |
|  | Soyasaponin V | Cid\_15608234 |
|  | Lactarolide A | Cid\_156145 |
|  | Ligustrazine hcl | Cid\_156709 |
|  | Tetranor-12(S)-HETE | Cid\_15730832 |
|  | Scropolioside F | Cid\_15736670 |
|  | Undecanedioic acid | Cid\_15816 |
|  | Nepsilon,nepsilon,nepsilon-trimethyllysine | Cid\_159659 |
|  | Butyl terephthalate | Cid\_16066 |
|  | Hemiphloin | Cid\_160711 |
|  | Maesopsin | Cid\_160803 |
|  | Glycan 1,4-D-Xylobiose | Cid\_160873 |
|  | 1-O-((2E,4E)-9-Carboxy-8-hydroxy-2,7-dimethylnona-2,4-dienoyl)-.beta.-D-glucopyranose | Cid\_16095194 |
|  | L-Kynurenine | Cid\_161166 |
|  | N6-threonylcarbamoyladenosine | Cid\_161466 |
|  | 3-Hydroxyacetaminophen | Cid\_161950 |
|  | (3E)-4-(1-Hydroxy-2,2,6-trimethyl-4-oxocyclohexyl)but-3-en-2-yl hexopyranoside | Cid\_16196969 |
|  | 3,3-Diphenyl-L-alanine | Cid\_162977 |
|  | 4',6-Dihydroxy-3'-methoxyaurone | Cid\_16376440 |
|  | (1S,5S)-2,4,9-Trimethyl-6-[(E)-prop-1-enyl]-7-oxabicyclo[3.3.1]non-3-ene | Cid\_16395092 |
|  | ((1S)-5-Methyl-1-(4-methylpent-3-en-1-yl)-2-oxabicyclo[2.2.2]octan-4-yl)methanol | Cid\_16395956 |
|  | [(9R)-8-Isopropyl-2,4,9-trimethyl-7-oxabicyclo[3.3.1]non-2-en-5-yl]methanol | Cid\_16395991 |
|  | Phyllodulcin | Cid\_164615 |
|  | Carabrone | Cid\_164879 |
|  | Isosulochrin | Cid\_16681742 |
|  | 3-Methoxytyrosine | Cid\_1670 |
|  | (+)-Carvone | Cid\_16724 |
|  | Nardosinon | Cid\_168136 |
|  | N4-acetylsulfadimethoxine | Cid\_168167 |
|  | Argininosuccinic acid | Cid\_16950 |
|  | Hypolide | Cid\_173273 |
|  | (-)-Caryophyllene oxide | Cid\_1742210 |
|  | Malioxamycin | Cid\_175396 |
|  | 3,4',5-Trihydroxy-7-methoxyflavanone | Cid\_181132 |
|  | Maltose | Cid\_181526 |
|  | Ageratriol | Cid\_181557 |
|  | 4-Acetamidobutanoate | Cid\_18189 |
|  | Benahorin | Cid\_182169 |
|  | Gly-Phe | Cid\_182174 |
|  | Asn-Pro-Arg | Cid\_18219245 |
|  | Gln-Glu-Lys | Cid\_18220610 |
|  | N-Acetyl-L-glutamate | Cid\_185 |
|  | N-[2-(1H-Imidazol-5-yl)ethyl]-N'-(2-phenylethyl)thiourea | Cid\_1858147 |
|  | 2-Ethyl-1,2,3,4-tetrahydro-5-isoquinolinamine | Cid\_18687359 |
|  | Cirsimaritin | Cid\_188323 |
|  | His-Leu | Cid\_189008 |
|  | Loureirin b | Cid\_189670 |
|  | Cyclopropyl(3-pyridyl)methanol | Cid\_19374862 |
|  | Phellamurin | Cid\_193876 |
|  | 3-[(3-Butyl-6-methoxy-2-methyl-4-quinolyl)thio]propionitrile | Cid\_1942420 |
|  | Adipic acid | Cid\_196 |
|  | 2-[(4-Amino-6-anilino-1,3,5-triazin-2-yl)methoxy]benzaldehyde | Cid\_1972117 |
|  | Agmatine | Cid\_199 |
|  | Cyclopentaneacetic acid, 1-phenyl- | Cid\_19966045 |
|  | Haploside d | Cid\_20106108 |
|  | Butyrophenone, 2-piperidino- | Cid\_20461540 |
|  | Asarylaldehyde | Cid\_20525 |
|  | N-(4-Ethylbenzyl)-N-methylamine | Cid\_2060575 |
|  | Eglumetad | Cid\_213056 |
|  | 5-Hydroxy-7-(4-hydroxy-3-methoxyphenyl)-1-(4-hydroxyphenyl)heptan-3-one | Cid\_21588208 |
|  | 2-(2-Carbomethoxy-3-hydroxy-5-methylphenoxy)-5-hydroxy-3-methoxybenzoic acid | Cid\_21629518 |
|  | Zizanoic acid | Cid\_21764437 |
|  | Innuchenenolide C | Cid\_21769986 |
|  | Anabasine | Cid\_2181 |
|  | Fumagillol | Cid\_222778 |
|  | 3,4-Dimethylbenzaldehyde | Cid\_22278 |
|  | 4-[3,5-Dihydroxy-7-(4-hydroxyphenyl)heptyl]pyrocatechol | Cid\_22297431 |
|  | 4-[3,5-Dihydroxy-7-(4-hydroxyphenyl)heptyl]pyrocatechol | Cid\_22297431 |
|  | Licoagroside B | Cid\_22297602 |
|  | Licoagroside B | Cid\_22297602 |
|  | Linalool oxide | Cid\_22310 |
|  | 3-Hydroxysuberic acid | Cid\_22328017 |
|  | Phenylalanine, 3-methyl- | Cid\_225441 |
|  | Fludrocortisone acetate | Cid\_225609 |
|  | Azelaic acid | Cid\_2266 |
|  | N-Acetylvaline | Cid\_227752 |
|  | N-Acetylvaline | Cid\_227752 |
|  | 2-(3-Methylbenzyl)succinic acid | Cid\_228104 |
|  | Asp-Val | Cid\_22824556 |
|  | Asp-Val | Cid\_22824556 |
|  | Bisphenol G | Cid\_228537 |
|  | 3-Cyclopentylalanine | Cid\_229579 |
|  | DL-Arginine | Cid\_232 |
|  | Melilotocarpan B | Cid\_23259931 |
|  | 5-Ethyl-5-isopropylhydantoin | Cid\_234513 |
|  | Talopram | Cid\_23573 |
|  | 2,3-Dimethyl-6-quinoxalinecarboxylic acid | Cid\_236268 |
|  | Lotaustralin | Cid\_23638286 |
|  | 3-(4-Methoxyphenyl)-4-oxo-4H-chromen-7-yl 6-O-(carboxyacetyl)-.beta.-D-glucopyranoside | Cid\_23724663 |
|  | (3E)-4-((1S)-1-Hydroxy-2,6,6-trimethyl-4-oxocyclohex-2-en-1-yl)but-3-en-2-yl .beta.-D-glucopyranoside | Cid\_23757167 |
|  | (E)-5-(3-Hydroxy-2,3-dimethylnorbornan-2-yl)-2-methylpent-2-enoic acid | Cid\_23786265 |
|  | 4-((2S,3S)-3-(Hydroxymethyl)-5-((1E)-3-hydroxyprop-1-en-1-yl)-7-methoxy-2,3-dihydro-1-benzofuran-2-yl)-2-methoxyphenyl hexopyranoside | Cid\_23786437 |
|  | 4-((2S,3S)-3-(Hydroxymethyl)-5-((1E)-3-hydroxyprop-1-en-1-yl)-7-methoxy-2,3-dihydro-1-benzofuran-2-yl)-2-methoxyphenyl hexopyranoside | Cid\_23786437 |
|  | 1H-3,9a-Methanocyclopent[c]oxocin-4-carboxylic acid, octahydro-4-hydroxy-7-(2-hydroxy-1-methylethylidene)- | Cid\_23815256 |
|  | 2,3-Dimethyloxirane-2-carboxylic acid [(1S,2R,4aR,8aR)-1-hydroxy-7-isopropylidene-6-keto-1,4a-dimethyldecalin-2-yl] ester | Cid\_23815419 |
|  | Cumanin | Cid\_23844091 |
|  | 6-O-Hexopyranosyl-1-O-(19-hydroxy-28-oxo-3-(pentopyranosyloxy)olean-12-en-28-yl)hexopyranose | Cid\_23846524 |
|  | Acremin F | Cid\_23846553 |
|  | (11E,15Z)-9,10,13-Trihydroxy-11,15-octadecadienoic acid | Cid\_23872026 |
|  | 4-Dec-9-enyl-3-hydroxy-5-oxooxolane-2,3-dicarboxylic acid | Cid\_23872057 |
|  | 2-(6-Hydroxyhexyl)-3-methylenesuccinic acid | Cid\_23872059 |
|  | 2-Glucosyloxy-4-methoxycinnamic acid | Cid\_23872107 |
|  | ACon1\_000569 | Cid\_23874473 |
|  | Eupassopilin | Cid\_23900111 |
|  | 4-(2,7-Dihydroxy-6-methylheptan-2-yl)-3-hydroxybenzoic acid | Cid\_23928030 |
|  | 5-(Hydroxymethyl)-3-(1-hydroxy-4-methylhexyl)oxolan-2-one | Cid\_23930375 |
|  | 5-O-Methylsulochrin | Cid\_23983701 |
|  | 2,4-Tetradecadienedioic acid, 12-hydroxy-13-(hydroxymethyl)-3,5,7-trimethyl-, 14-methyl ester | Cid\_23983705 |
|  | 5-Methyl-1-(2-methylpropyl)pyrimidine-2,4(1H,3H)-dione | Cid\_240106 |
|  | Sydonol | Cid\_24011597 |
|  | (6E,10Z,14E)-2-Keto-6,14-dimethyl-3-methylene-3a,4,5,8,9,12,13,15a-octahydrocyclotetradeca[b]furan-10-carboxylic acid | Cid\_24011680 |
|  | 1,7-Bis(3,4-dihydroxyphenyl)heptan-3-yl acetate | Cid\_24013835 |
|  | Tuberonic acid glucoside | Cid\_24066896 |
|  | 15-Octadecenoic acid, 9,12,13-trihydroxy- | Cid\_24066906 |
|  | Rupestonic acid | Cid\_24094149 |
|  | (Z)-2-.beta.-D-Glucopyranosyloxy-4-methoxycinnamic acid | Cid\_24094157 |
|  | 9-Octadecenoic acid, 5,8,11-trihydroxy- | Cid\_24096399 |
|  | 9-Octadecenoic acid, 5,8,11-trihydroxy- | Cid\_24096399 |
|  | 2-Furanacetic acid, 5-(2,12-dihydroxy-3,6-dodecadien-1-yl)tetrahydro- | Cid\_24150636 |
|  | 1,3-Bis(2-benzimidazolyl)propane | Cid\_242973 |
|  | 3-Hydroxy-5-methoxy-2,2-dimethyl-7-phenethylchroman-8-carboxylic acid | Cid\_24739240 |
|  | CAY10581 | Cid\_24824610 |
|  | Iclusig | Cid\_24826799 |
|  | 4-Hydroxy-5-(4-hydroxy-1-methylbutyl)-6-methyl-3-methylene-3a,4,7,7a-tetrahydrobenzofuran-2-one | Cid\_25018670 |
|  | Aureonitol | Cid\_25064137 |
|  | 9,10-DiHOME | Cid\_25320858 |
|  | 9,10-DiHOME | Cid\_25320858 |
|  | 12,13-DiHOME | Cid\_25320868 |
|  | 2',3'-cAMP | Cid\_25796534 |
|  | Ononetin | Cid\_259632 |
|  | Cedrin | Cid\_26087902 |
|  | 8-Hydroxyageraphorone | Cid\_26297667 |
|  | 3-Hydroxycaprylic acid | Cid\_26613 |
|  | 4-Methyl-2-oxo-1(2H)-quinolineacetic acid | Cid\_268297 |
|  | 1,5-Pentanediamine | Cid\_273 |
|  | 2,3-Dihydro-3-oxo-4H-1,4-benzoxazine-4-acetic acid | Cid\_2735705 |
|  | L-Canavanine | Cid\_275 |
|  | L-.beta.-Homolysine | Cid\_2761529 |
|  | 4-(5-Oxazolyl)benzoic acid | Cid\_2776414 |
|  | Benzotript | Cid\_2787526 |
|  | 3-(Methylsulfonamido)benzaldehyde | Cid\_2794787 |
|  | PyroGlu-Val | Cid\_28191825 |
|  | 2,4-Dihydroxy-6-pentylbenzoate | Cid\_2826719 |
|  | 4-(4-Hydroxyphenyl)-6-methyl-3-oxabicyclo[3.3.1]non-6-ene-1-methanol | Cid\_2828563 |
|  | 9-Nitro-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-4,6-dicarboxylic acid | Cid\_2872935 |
|  | N-[2-(5-Methoxy-1H-indol-3-yl)ethyl]cyclopropanecarboxamide | Cid\_2877 |
|  | 1-(2,5-Dimethylphenoxy)-3-morpholinopropan-2-ol | Cid\_2882685 |
|  | Pyrocatechol | Cid\_289 |
|  | N-Methylanabasine | Cid\_29758 |
|  | Gabapentin related compound D | Cid\_29980616 |
|  | Gly-Pro | Cid\_3013625 |
|  | 3-Hydroxysebacic acid | Cid\_3017884 |
|  | N-(1-Naphthyl)-N'-(2-pyridinyl)urea | Cid\_302856 |
|  | Dicamba | Cid\_3030 |
|  | D-Glucosamine | Cid\_3034366 |
|  | 3-Pyrrolidinecarboxylic acid | Cid\_3034645 |
|  | NAD 299 | Cid\_3055171 |
|  | Fallacinol | Cid\_3083633 |
|  | Dipivefrine | Cid\_3105 |
|  | Diprotin A | Cid\_3107 |
|  | Citric acid | Cid\_311 |
|  | Citric acid | Cid\_311 |
|  | 1-Naphthyl-N-(tetrahydro-2-furanylmethyl)methanamine | Cid\_3156809 |
|  | (.+/-.)-Dropropizine | Cid\_3169 |
|  | PRIMA-1 | Cid\_322968 |
|  | Methyl morpholine-3-carboxylate | Cid\_3286806 |
|  | Ncgc00385871-01\_c15h22o4\_2,8-dihydroxy-5,5,8-trimethyl-11-oxatetracyclo[7.3.1.0~1,9~.0~3,7~]tridecan-10-one | Cid\_329432 |
|  | Syringaresinol | Cid\_332426 |
|  | Indole-4-carboxaldehyde | Cid\_333703 |
|  | (-)-Medicarpin | Cid\_336327 |
|  | Salicylic acid | Cid\_338 |
|  | Psicose | Cid\_3426 |
|  | 1-{[4-(Dimethylamino)benzyl]amino}-2-propanol | Cid\_344187 |
|  | 1-[(Dimethylamino)carbonyl]-3-piperidinecarboxylic acid | Cid\_3470698 |
|  | Sakuranetin | Cid\_348130 |
|  | Butin | Cid\_3496769 |
|  | Val-Leu | Cid\_352039 |
|  | Val-Leu | Cid\_352039 |
|  | 3'-Hydroxyflavanone | Cid\_3534982 |
|  | N-Ethyl-4-(dimethylamino)benzylamine | Cid\_3542461 |
|  | Ferutinin | Cid\_354654 |
|  | [3-Me-His2] TRH | Cid\_3548445 |
|  | 4-Methylcyclohexaneacetic acid | Cid\_3616945 |
|  | Isopropalin | Cid\_36606 |
|  | Cyclo(prolyltyrosyl) | Cid\_371682 |
|  | Ferocaulidin | Cid\_3725594 |
|  | 2-Hydroxy-2-(2-keto-2-methoxyethyl)succinic acid | Cid\_378532 |
|  | 6-Piperazino-7H-purine | Cid\_3810979 |
|  | Glucoside, 3-hydroxy-5-(p-hydroxyphenethyl)phenyl | Cid\_38348878 |
|  | Hydroheptelidic acid | Cid\_38354714 |
|  | Hydroheptelidic acid | Cid\_38354714 |
|  | 2-((1S,2S,4aR,8aS)-1-hydroxy-4a-methyl-8-methylenedecahydronaphthalen-2-yl)acrylic acid | Cid\_38357975 |
|  | (E)-1,7-Bis(4-hydroxyphenyl)hept-1-en-3-one | Cid\_38361084 |
|  | Pimelic acid | Cid\_385 |
|  | 7-Acetonyloxy-6-methyl-2,3-dihydro-1H-cyclopenta[c]chromen-4-one | Cid\_3852139 |
|  | Provitamin B3 | Cid\_3856251 |
|  | Lenticine | Cid\_3861164 |
|  | (2R)-6-Ketopipecolinic acid | Cid\_40424009 |
|  | Val-Tyr | Cid\_40492428 |
|  | Val-Glu | Cid\_40520338 |
|  | Virginiaebutanolide C | Cid\_40565489 |
|  | (.+/-.)-Mephenesin | Cid\_4059 |
|  | Trolox | Cid\_40634 |
|  | rac-4-(Methylamino)-1-(3-pyridyl)-1-butanol | Cid\_4071159 |
|  | 4-(2-Phenoxyethoxy)aniline | Cid\_4177311 |
|  | 6-(Hydroxymethyl)pyridin-3-ol | Cid\_419490 |
|  | 5-[(4-Bromo-2-chlorophenoxy)methyl]furfural | Cid\_4250163 |
|  | 6-(4-hydroxy-6-methoxy-7-methyl-3-oxo-1H-isobenzofuran-5-yl)-4-methyl-4-hexenoic acid | Cid\_4272 |
|  | 2-(Dimethylamino)-N-(1,5-dimethyl-3-oxo-2-phenyl-2,3-dihydro-1H-pyrazol-4-yl)acetamide | Cid\_42905 |
|  | N-(4-Methylpentanoyl)phenylalanine | Cid\_43183355 |
|  | 4-Ethyl-N,N-dimethylcathinone | Cid\_43794772 |
|  | 5'-S-Methyl-5'-thioadenosine | Cid\_439176 |
|  | Guanosine 5'-diphospho-.beta.-L-fucose | Cid\_439211 |
|  | L-Carnosine | Cid\_439224 |
|  | L-Homoproline | Cid\_439227 |
|  | L-Ornithine, N2-acetyl- | Cid\_439232 |
|  | Naringenin | Cid\_439246 |
|  | sn-Glycero-3-phosphocholine | Cid\_439285 |
|  | beta-D-Galactose | Cid\_439353 |
|  | Glycine, N-(aminocarbonyl)-N-methyl- | Cid\_439375 |
|  | D-Asparagine | Cid\_439600 |
|  | D-Pyroglutamic acid | Cid\_439685 |
|  | N-Acetyl-D-tryptophan | Cid\_439917 |
|  | L-2-Hydroxyglutaric acid | Cid\_439939 |
|  | N6,N6,N6-Trimethyl-L-lysine | Cid\_440120 |
|  | N,N-Dimethylhistidine | Cid\_440274 |
|  | 8-Deoxylactucin | Cid\_442196 |
|  | (-)-Salsoline | Cid\_442356 |
|  | 7,8-dihydroxy-6-methoxy-3-(4-methoxyphenyl)-4H-chromen-4-one | Cid\_44257265 |
|  | [6]-Gingerol | Cid\_442793 |
|  | Ononin | Cid\_442813 |
|  | Ononin | Cid\_442813 |
|  | 1-[4-Hydroxy-3-(3-methylbut-2-enyl)phenyl]ethanone | Cid\_442916 |
|  | Ile-Thr | Cid\_44298493 |
|  | (-)-Syringaresinol-4-O-.beta.-D-glucopyranoside | Cid\_443024 |
|  | (-)-Syringaresinol-4-O-.beta.-D-glucopyranoside | Cid\_443024 |
|  | Vinpocetine | Cid\_443955 |
|  | Pro-Leu | Cid\_444109 |
|  | Maleic acid | Cid\_444266 |
|  | cis-ACCP | Cid\_44457233 |
|  | L-(-)-3-Phenyllactic acid | Cid\_444718 |
|  | (+)-2-Phenyllactic acid | Cid\_445144 |
|  | MMV023233 | Cid\_44525694 |
|  | TCMDC-138924 | Cid\_44533020 |
|  | Ferulic acid | Cid\_445858 |
|  | 3,5-Dihydroxycapric acid | Cid\_44715204 |
|  | 3',4'-Dihydroinfectopyrone | Cid\_44715238 |
|  | 3',4'-Dihydroinfectopyrone | Cid\_44715238 |
|  | 6-Hydroxy-3,8a-dimethyl-5-methylene-4a,6,7,8,9,9a-hexahydro-4H-benzo[f]benzofuran-2-one | Cid\_44715317 |
|  | 6-[(E)-But-2-en-2-yl]-4-[6-[(Z)-but-2-en-2-yl]-2,4-dihydroxy-3-methylbenzoyl]oxy-2-hydroxy-3-methylbenzoic acid | Cid\_44715333 |
|  | Pentalenolactone D | Cid\_44715352 |
|  | (E)-2-Decylpent-2-enedioic acid | Cid\_44715396 |
|  | MCULE-7407861812 | Cid\_44715452 |
|  | MCULE-7407861812 | Cid\_44715452 |
|  | 1-[4-[2-(7-Methoxy-1,3-benzodioxol-5-yl)ethyl]phenoxy]-3-methylbutane-2,3-diol | Cid\_44715781 |
|  | Adenosine | Cid\_447270 |
|  | 1-Acetylpipecolinic acid | Cid\_4472712 |
|  | 8-Amino-7-oxononanoic acid | Cid\_448124 |
|  | 3,4-Dimethyl-2,5-bis(3,4,5-trimethoxyphenyl)oxolane | Cid\_4485701 |
|  | Ile-Val | Cid\_449407 |
|  | Avermitilol | Cid\_45036058 |
|  | L-.gamma.-Glutamyl-L-leucine | Cid\_4524287 |
|  | 7-Oxabicyclo[4.1.0]hept-3-en-2-one, 5-hydroxy-3-(hydroxymethyl)-1-(1-hydroxy-3-methyl-2-buten-1-yl)-4-(1-propen-1-yl)- | Cid\_45359217 |
|  | 3-(1,2-Dihydroxypropyl)-1,6,8-trihydroxy-9,10-anthraquinone | Cid\_45359290 |
|  | 3-Heptyl-3,6-dihydro-1H-furo[3,4-c]furan-4-one | Cid\_45359295 |
|  | 9-Hydroxy-9-[[(E)-2-(hydroxymethyl)-3-[3-(hydroxymethyl)-6-propan-2-ylcyclohex-2-en-1-yl]prop-2-enoyl]oxymethyl]-1-oxo-6-propan-2-yl-3,5a,6,7,8,9a-hexahydro-2-benzoxepine-4-carboxylic acid | Cid\_45359306 |
|  | 4-(5,6-Dihydroxyheptyl)-3-methylfuran-2(5H)-one | Cid\_45359400 |
|  | 7-Hydroxy-9,10,14-trimethoxy-2-methyl-3,4,5,6-tetrahydro-2H,8H-2,6-epoxyoxocino[3,2-b]xanthen-8-one | Cid\_45359438 |
|  | 3,8,9-Trihydroxy-10-propyl-3,4,5,8,9,10-hexahydro-2H-oxecin-2-one | Cid\_45359453 |
|  | [4,5-Dihydroxy-3,4-bis(hydroxymethyl)-4a,8,8-trimethyl-5,6,7,8a-tetrahydro-1H-naphthalen-1-yl] hexanoate | Cid\_45359477 |
|  | 4-(Hydroxymethyl)-3,4a,8,8-tetramethyl-1,2,5,6,7,8a-hexahydronaphthalene-1,2-diol | Cid\_45359517 |
|  | 1-O-(3-Hydroxy-4,5-dimethoxybenzoyl)hexopyranose | Cid\_45359580 |
|  | Aromadendrin 6-C-glucoside | Cid\_45359599 |
|  | 3',5a'-Dimethyl-2'-oxodecahydro-2'H-spiro[oxirane-2,8'-oxireno[6,7]naphtho[1,2-b]furan]-6'-yl (2Z)-2-methylbut-2-enoate | Cid\_45359674 |
|  | 3-((3aS,6S,8aR)-8-Hydroxy-6,8-dimethyl-3-methylidene-2-oxooctahydro-2H-cyclohepta[b]furan-7-yl)propanoic acid | Cid\_45359685 |
|  | 2,2a,6,6a,7a,8,9,9a-Octahydro-1a,5,7a-trimethylbisoxireno[4,5:8,9]cyclodeca[1,2-b]furan-4(1aH)-one | Cid\_45359717 |
|  | 4,11-Dimethyl-8-(propan-2-yl)-5,12-dioxatricyclo[9.1.0.04,6]dodecan-7-ol | Cid\_45359817 |
|  | Garbanzol | Cid\_45360091 |
|  | 3-(5-(3,4-Dihydroxy-4-methyl-5-oxotetrahydrofuran-2-yl)-2-((6-O-(3-(5-(3,4-dihydroxy-4-methyl-5-oxotetrahydrofuran-2-yl)-2-(.beta.-D-glucopyranosyloxy)-4-methoxyphenyl)propanoyl)-.beta.-D-glucopyranosyl)oxy)-4-methoxyphenyl)propanoic acid | Cid\_45360165 |
|  | 2-(2-Hydroxy-5-((1E)-3-hydroxyprop-1-en-1-yl)-3-methoxyphenyl)-3-(4-hydroxy-3-methoxyphenyl)propyl hexopyranoside | Cid\_45360204 |
|  | 4-[3-(3,4-Dihydroxyphenyl)acryloyloxy]-2,3-dihydroxy-2-methylbutyric acid | Cid\_45360267 |
|  | 6,10a-Dihydroxy-4-(hydroxymethyl)-4,7,11b-trimethyl-1,2,3,4a,5,6,6a,7,11,11a-decahydronaphtho[2,1-f][1]benzofuran-9-one | Cid\_45360321 |
|  | Undatuside A | Cid\_45360328 |
|  | Norfloxacin | Cid\_4539 |
|  | Homopterocarpin | Cid\_454892 |
|  | Methyl 4-((4,6-dihydroxy-5-methoxy-2,5-dimethyl-3-oxocyclohex-1-en-1-yl)oxy)-2-hydroxy-3,6-dimethylbenzoate | Cid\_45782752 |
|  | (E)-2-(Hydroxymethyl)-3-(3-oxo-5-propan-2-yl-4,5,6,7-tetrahydro-1H-2-benzofuran-4-yl)prop-2-enoic acid | Cid\_45782757 |
|  | (3-(2,4'-Dihydroxy-3,6-dimethoxy[biphenyl]-4-yl)-5-oxo-2,5-dihydrofuran-2-yl)acetic acid | Cid\_45782803 |
|  | 1-Hydroxy-1-(hydroxymethyl)-8,8-dimethyl-2-oxo-4a,6a,7,9-tetrahydro-4H-pentaleno[1,6a-c]pyran-5-carboxylic acid | Cid\_45782878 |
|  | 1,3,4-Trihydroxy-5-(((2E)-3-(2-(4-hydroxy-3-methoxyphenyl)-3-(hydroxymethyl)-7-methoxy-2,3-dihydro-1-benzofuran-5-yl)prop-2-enoyl)oxy)cyclohexanecarboxylic acid | Cid\_45782923 |
|  | 3-Hydroxy-3,5,5-trimethyl-4-(3-oxobut-1-en-1-ylidene)cyclohexyl .beta.-D-glucopyranoside | Cid\_45783010 |
|  | 8-O-4-Hydroxycinnamoylharpagide | Cid\_45783053 |
|  | 3-(Benzoyloxy)-2-hydroxypropyl .beta.-D-glucopyranosiduronic acid | Cid\_45783079 |
|  | 1,9b-Dihydroxy-6,6,9a-trimethyl-1,5,5a,7,8,9-hexahydrobenz[e]isobenzofuran-3-one | Cid\_45783128 |
|  | 9-Glyceryloxy-9-ketopelargonic acid | Cid\_45783154 |
|  | 9-Glyceryloxy-9-ketopelargonic acid | Cid\_45783154 |
|  | Methyl 2-(4-ethenyl-2,6-dihydroxy-3-(3-hydroxyprop-1-en-2-yl)-4-methylcyclohexyl)prop-2-enoate | Cid\_45783164 |
|  | 5,6-Dimethoxy-3-(4-methoxyphenyl)-4-oxo-4H-chromen-7-yl 6-deoxy-.alpha.-L-mannopyranosyl-(1->6)-[6-deoxy-.alpha.-L-mannopyranosyl-(1->6)-.beta.-D-glucopyranosyl-(1->4)]-.beta.-D-glucopyranoside | Cid\_45783184 |
|  | (2E,4E)-5-(6-((.beta.-D-Glucopyranosyloxy)methyl)-1-hydroxy-2,6-dimethyl-4-oxocyclohex-2-en-1-yl)-3-methylpenta-2,4-dienoic acid | Cid\_45783222 |
|  | (9Z,12E)-15,16-Dihydroxyoctadeca-9,12-dienoic acid | Cid\_45783236 |
|  | (9Z,12E)-15,16-Dihydroxyoctadeca-9,12-dienoic acid | Cid\_45783236 |
|  | 2'-Hydroxy-2,4,5,6'-tetramethoxychalcone | Cid\_45933916 |
|  | Salicylic acid beta-D-glucoside | Cid\_4596190 |
|  | Oxymetazoline | Cid\_4636 |
|  | (3aR,4aR,5R,7S,7aS)-5-Hydroxy-5,8-dimethyl-3-methylene-2-oxo-2,3,3a,4,4a,5,6,7,7a,9a-decahydroazuleno[6,5-b]furan-7-yl acetate | Cid\_46397418 |
|  | Hippuric acid | Cid\_464 |
|  | 7-(1-Hydroxy-1-methylethyl)-1,4a-dimethyldecalin-1-ol | Cid\_4655876 |
|  | Provitamin B | Cid\_4678 |
|  | 5-{[2-(4-Chlorophenyl)ethyl]amino}-5-oxopentanoic acid | Cid\_4685096 |
|  | Glyasperin D | Cid\_480860 |
|  | Pindolol | Cid\_4828 |
|  | Vitamin B2 | Cid\_493570 |
|  | 2-(8-Hydroxy-4a,8-dimethyldecalin-2-yl)acrylic acid | Cid\_496073 |
|  | 2-(8-Hydroxy-4a,8-dimethyldecalin-2-yl)acrylic acid | Cid\_496073 |
|  | Benedorm | Cid\_4994 |
|  | 4-Guanidinobutyric acid | Cid\_500 |
|  | Methyl 2,4,6-tri-tert-butylbenzoate | Cid\_5059268 |
|  | (4E,6E)-3-(3-Keto-3-methoxypropyl)-2-methyloldeca-4,6-dienoic acid | Cid\_51136263 |
|  | 1-[2-Hydroxy-4-(3-hydroxy-5-methylphenoxy)-6-methylphenyl]-3-methylbutane-2,3-diol | Cid\_51136316 |
|  | Gallomyrtucommulone C | Cid\_51136364 |
|  | Eurycomalactone | Cid\_51136366 |
|  | 9.xi.-O-.beta.-D-Glucopyranosyloxy-5-megastigmen-4-one | Cid\_51136393 |
|  | 4-[2-[(2-Ethyl-2,3-dihydroxybutanoyl)oxymethyl]anilino]-4-ketobutyric acid | Cid\_51136455 |
|  | 3-C-(((2-(3-Carboxypropanamido)benzyl)oxy)carbonyl)-1,5-dideoxypentitol | Cid\_51136523 |
|  | 4,4,7a-Trimethyl-3a,5,6,7-tetrahydro-3H-indene-1-carboxylic acid | Cid\_51136570 |
|  | Grandidentoside | Cid\_51136585 |
|  | 4-(2,6,6-Trimethyl-4-oxocyclohex-2-en-1-yl)butan-2-yl 6-O-(3,4,5-trihydroxybenzoyl)hexopyranoside | Cid\_51136595 |
|  | Sebacic acid | Cid\_5192 |
|  | 4-Formyl-3-methoxyphenol | Cid\_519541 |
|  | N-Malonyltryptophan | Cid\_5199636 |
|  | DL-Prolylphenylalanine | Cid\_5226097 |
|  | DL-Malic acid | Cid\_525 |
|  | N,N'-Bis(4-ethoxyphenyl)formamidine | Cid\_525811 |
|  | Neopetasol | Cid\_5275908 |
|  | Biochanin A | Cid\_5280373 |
|  | Biochanin A | Cid\_5280373 |
|  | Formononetin | Cid\_5280378 |
|  | Formononetin | Cid\_5280378 |
|  | Calycosin | Cid\_5280448 |
|  | Calycosin | Cid\_5280448 |
|  | Maleamate | Cid\_5280451 |
|  | trans-Glutaconic acid | Cid\_5280498 |
|  | Sinapyl alcohol | Cid\_5280507 |
|  | Sissotrin | Cid\_5280781 |
|  | Sissotrin | Cid\_5280781 |
|  | trans-3,5-Dimethoxy-4-hydroxycinnamaldehyde | Cid\_5280802 |
|  | Isokaempferide | Cid\_5280862 |
|  | Genistein | Cid\_5280961 |
|  | Genistein | Cid\_5280961 |
|  | Jasmonic acid | Cid\_5281166 |
|  | Corylifolinin | Cid\_5281255 |
|  | Sulfuretin | Cid\_5281295 |
|  | Ophiobolin A | Cid\_5281387 |
|  | Zearalenone | Cid\_5281576 |
|  | Dinatin | Cid\_5281628 |
|  | Macluraxanthone | Cid\_5281646 |
|  | Wogonin | Cid\_5281703 |
|  | Coumestrol | Cid\_5281707 |
|  | Coumestrol | Cid\_5281707 |
|  | Pterostilbene | Cid\_5281727 |
|  | Prunetin | Cid\_5281804 |
|  | (E)-.alpha.-Ionone | Cid\_5282108 |
|  | trans-EKODE-(E)-Ib | Cid\_5283007 |
|  | 9-Oxo-10(E),12(E)-octadecadienoic acid | Cid\_5283011 |
|  | trans-Traumatic acid | Cid\_5283028 |
|  | trans-Traumatic acid | Cid\_5283028 |
|  | .gamma.-Linolenoyl ethanolamide | Cid\_5283445 |
|  | 3-(2-Nitro-1-propenyl)indole | Cid\_5291187 |
|  | 1,1 Dimethyl 4 Phenylpiperazinium | Cid\_5310977 |
|  | EGLU | Cid\_5311079 |
|  | Corylin | Cid\_5316097 |
|  | Dianthoside | Cid\_5316639 |
|  | 6,7-Dihydroxyligustilide | Cid\_5316704 |
|  | Calycosin-7-o-beta-d-glucoside | Cid\_5318267 |
|  | Calycosin-7-o-beta-d-glucoside | Cid\_5318267 |
|  | Ligustilide A | Cid\_5319022 |
|  | Methyl 4-coumarate | Cid\_5319562 |
|  | Hortensin | Cid\_5320438 |
|  | Psilostachyin B | Cid\_5320768 |
|  | Sophoricoside | Cid\_5321398 |
|  | Lumichrome | Cid\_5326566 |
|  | Orantinib | Cid\_5329099 |
|  | Thioarginine | Cid\_53394341 |
|  | Uralenneoside | Cid\_53462251 |
|  | 2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine | Cid\_5352621 |
|  | Zerumbone | Cid\_5353004 |
|  | .beta.-Damascone | Cid\_5374527 |
|  | 3-Indoleacrylic acid | Cid\_5375048 |
|  | trans-Abscisin | Cid\_5375188 |
|  | (+)-Abscisic acid | Cid\_5375199 |
|  | 4,4'-Dimethoxychalcone | Cid\_5377817 |
|  | 3,2'-Dihydroxy-4,4',6'-trimethoxychalcone | Cid\_5379071 |
|  | 3,2'-Dihydroxy-4,4',6'-trimethoxychalcone | Cid\_5379071 |
|  | 2'-Hydroxy-4'-methoxychalcone | Cid\_5380645 |
|  | Pro-Thr | Cid\_53860028 |
|  | Helenin | Cid\_5386173 |
|  | 7,3'-Dihydroxyflavone | Cid\_5391140 |
|  | 7,2'-Dihydroxyflavone | Cid\_5391149 |
|  | 7-Hydroxy-3'-methoxyflavone | Cid\_5393153 |
|  | 7-Methyl-3-methylidene-6-(3-oxobutyl)-4,7,8,8a-tetrahydro-3aH-cyclohepta[b]furan-2-one | Cid\_540288 |
|  | Cys-Val | Cid\_54146020 |
|  | Gln-Met | Cid\_54307034 |
|  | .gamma.-Mangostin | Cid\_5464078 |
|  | 4-Hydroxy-3-[1-(5-hydroxy-2,6,6-trimethyl-tetrahydropyran-2-yl)ethyl]carbostyril | Cid\_54680116 |
|  | Antibiotic TAN 1446A | Cid\_54742784 |
|  | Tuberonic acid | Cid\_5497122 |
|  | H-gamma-glu-phe-oh | Cid\_558649 |
|  | N-Phenylacetylaspartic acid | Cid\_562665 |
|  | 9,10,11-Trihydroxy-12(Z),15(Z)-octadecadienoic acid | Cid\_56671117 |
|  | MCULE-1175390561 | Cid\_56773937 |
|  | Arillatose B | Cid\_56776292 |
|  | Longipin | Cid\_56776401 |
|  | YC-1 | Cid\_5712 |
|  | Gln-Val | Cid\_57262456 |
|  | 4-Acetoxy-8-(3-keto-2-pent-2-enylcyclopenten-1-yl)caprylic acid | Cid\_57481829 |
|  | 4-Methyl-.alpha.-pyrrolidinobutiophenone | Cid\_57486975 |
|  | 2-(6-Hydroxy-2-keto-3,8-dimethyl-4,5,6,7,8,8a-hexahydro-1H-azulen-5-yl)acrylic acid | Cid\_57509376 |
|  | 7-Hydroxy-9-(hydroxymethyl)-1,4,9-trimethyl-2,4,5,7,8,8a-hexahydro-4,7-methanoazulen-6(1H)-one | Cid\_57509414 |
|  | Methyl 6-(acetyloxy)-1,3,7,11-tetrahydroxyabieta-8,11,13-trien-18-oate | Cid\_57509420 |
|  | 6-(3-(.beta.-D-Glucopyranosyloxy)butyl)-5,5-dimethyl-3-oxocyclohex-1-ene-1-carboxylic acid | Cid\_57509445 |
|  | 5,8-Dihydroxy-1,5,8-trimethyl-4,5a,6,7,8a,9-hexahydro-3aH-azuleno[6,5-b]furan-2-one | Cid\_57509469 |
|  | 2-Dec-9-enylglutaric acid | Cid\_57509489 |
|  | .beta.-Estradiol | Cid\_5757 |
|  | D-Glucitol | Cid\_5780 |
|  | 7-hydroxy-2',4'-dimethoxyisoflavone | Cid\_5781145 |
|  | 2,3-Divanillyl-1,4-butanediol | Cid\_586372 |
|  | (E)-5-((1S,4R)-3,3-Dimethylbicyclo[2.2.1]heptan-2-yl)pent-3-en-2-one | Cid\_5937532 |
|  | 6-Methylchromone | Cid\_594810 |
|  | Cytosine | Cid\_597 |
|  | 3-Methoxy-4,2',5'-trihydroxychalcone | Cid\_5976625 |
|  | Levulose | Cid\_5984 |
|  | 4-Hydroxy-2',4',6'-trimethoxychalcone | Cid\_5986673 |
|  | Sucrose | Cid\_5988 |
|  | Sucrose | Cid\_5988 |
|  | 3-O-Acetyl-13-deoxyphomenone | Cid\_60208854 |
|  | 4-((1S,4R)-4-(4-Hydroxy-3,5-dimethoxyphenyl)tetrahydro-1H,3H-furo[3,4-c]furan-1-yl)-2,6-dimethoxyphenyl 2-O-((2S,3R,4R)-3,4-dihydroxy-4-(hydroxymethyl)tetrahydrofuran-2-yl)-.beta.-D-glucopyranoside | Cid\_60208860 |
|  | Spirodionic acid | Cid\_60208865 |
|  | Spirodionic acid | Cid\_60208865 |
|  | Antibiotic JBIR 27 | Cid\_60208893 |
|  | Lasiodiplodin | Cid\_602765 |
|  | Uridine | Cid\_6029 |
|  | Lychnophoic acid | Cid\_6049852 |
|  | 4,9-Dihydroxy-6-methyl-3,10-dimethylene-4,7,8,9,11,11a-hexahydro-3aH-cyclodeca[b]furan-2-one | Cid\_6110227 |
|  | Androstenedione | Cid\_6128 |
|  | Ala-Ile | Cid\_61578913 |
|  | Cytidine | Cid\_6175 |
|  | N-Acetyl-L-methionine | Cid\_6180 |
|  | Cycloheximide | Cid\_6197 |
|  | 2,5'-Dimethoxy-2'-hydroxychalcone | Cid\_6211950 |
|  | His | Cid\_6274 |
|  | 4-(2,4,6-Trimethyl-3-cyclohexen-1-yl)-3-buten-2-one | Cid\_6285057 |
|  | L-Tryptophan | Cid\_6305 |
|  | Arginine | Cid\_6322 |
|  | Arginine | Cid\_6322 |
|  | Pro-Phe | Cid\_6351946 |
|  | trans-3-Coumaric acid | Cid\_637541 |
|  | p-Coumaric acid | Cid\_637542 |
|  | Sinapic acid | Cid\_637775 |
|  | Sinapic acid | Cid\_637775 |
|  | Isoliquiritigen | Cid\_638278 |
|  | 3,4'-Dihydroxypropiophenone | Cid\_638759 |
|  | 4-(Cyclohexylcarbamoylamino)butyric acid | Cid\_6420119 |
|  | .beta.-Ala-Phe | Cid\_6426945 |
|  | Ser-Leu | Cid\_6427005 |
|  | Cyclo(isoleucylprolyl) | Cid\_6428988 |
|  | 2-Methoxy-3,5-dimethylpyrazine | Cid\_6429218 |
|  | cis-Aconitic acid | Cid\_643757 |
|  | Citraconic acid | Cid\_643798 |
|  | Valerenic acid | Cid\_6440940 |
|  | (-)-Dihydrojasmonic acid | Cid\_644120 |
|  | Mycophenolic acid .beta.-D-glucuronide | Cid\_6442661 |
|  | Echinatin | Cid\_6442675 |
|  | N-Lauroyl-L-arginine | Cid\_6451888 |
|  | trans-C 75 | Cid\_6482234 |
|  | trans-C 75 | Cid\_6482234 |
|  | Arctigenin | Cid\_64981 |
|  | N-Acetyl-L-aspartic acid | Cid\_65065 |
|  | Isopropylfumaric acid | Cid\_6508102 |
|  | (-)-Secoisolariciresinol | Cid\_65373 |
|  | Valerenolic acid | Cid\_6537505 |
|  | Val-Met | Cid\_65549302 |
|  | 4-Formyl-2-hydroxybenzoic acid | Cid\_656876 |
|  | Glycerophosphocholine | Cid\_657272 |
|  | Pantothenate | Cid\_6613 |
|  | Piceatannol | Cid\_667639 |
|  | 4-Pyridoxic acid | Cid\_6723 |
|  | 4-O-Methylpinosylvic acid | Cid\_67322417 |
|  | 2-(4-tert-Butylbenzoyl)benzoic acid | Cid\_67357 |
|  | L-Arginine, N2-acetyl- | Cid\_67427 |
|  | 5-Nitro-N-(2-phenylethyl)-2-furamide | Cid\_676060 |
|  | 3,2'-Dimethoxyflavone | Cid\_676169 |
|  | Orsellinate | Cid\_68072 |
|  | Isoimperatorin | Cid\_68081 |
|  | Benzoylmalic acid | Cid\_68152266 |
|  | N-Acetyl-L-tyrosine | Cid\_68310 |
|  | 6-Hydroxy-4'-methoxyflavone | Cid\_688679 |
|  | 2'-Methoxy-7,8-benzoflavone | Cid\_688681 |
|  | 4'-Methoxy-6-methylflavone | Cid\_688682 |
|  | 3,6,3',4'-Tetramethoxyflavone | Cid\_688812 |
|  | N-(4-Phenoxyphenyl)-2-pyrazinecarboxamide | Cid\_695409 |
|  | Leu-Ser | Cid\_6992130 |
|  | Leu-Ser | Cid\_6992130 |
|  | Phe-Gly | Cid\_6992304 |
|  | Phe-Gly | Cid\_6992304 |
|  | Glu-Val | Cid\_6992567 |
|  | Val-Ala | Cid\_6992638 |
|  | Val-Gly | Cid\_6993111 |
|  | Leu-Val | Cid\_6993116 |
|  | N-.delta.-BOC-L-Ornithine | Cid\_6993436 |
|  | N-Acetyl-D-norleucine | Cid\_6995106 |
|  | Lys-Ile | Cid\_7010499 |
|  | Thr-Gly | Cid\_7010575 |
|  | Lys-Thr | Cid\_7010718 |
|  | Phe-Pro | Cid\_7020642 |
|  | Isoephedrine | Cid\_7028 |
|  | L,L-Cyclo(leucylprolyl) | Cid\_7074739 |
|  | Pro-Asp | Cid\_7079450 |
|  | Pro-Ile | Cid\_7079601 |
|  | N-Acetyl-L-leucine | Cid\_70912 |
|  | N-Acetyl-L-glutamic acid | Cid\_70914 |
|  | Hepasil | Cid\_71170 |
|  | Andrographolide | Cid\_71308151 |
|  | L-Glutarylcarnitine | Cid\_71317118 |
|  | Dianisalacetone | Cid\_715840 |
|  | 2-Pentenedioic acid, 2-octyl- | Cid\_71694435 |
|  | Zederone | Cid\_71694446 |
|  | 7-((3-O-.beta.-D-Glucopyranosyl-2-O-((2E)-3-(4-hydroxyphenyl)prop-2-enoyl)-.beta.-D-glucopyranosyl)oxy)-5-hydroxy-2-(4-hydroxyphenyl)-4-oxo-4H-chromen-3-yl 2-O-(6-deoxy-.alpha.-L-mannopyranosyl)-.beta.-D-glucopyranoside | Cid\_71694456 |
|  | Curcuminol G | Cid\_71694468 |
|  | Curcuminol G | Cid\_71694468 |
|  | Propofol glucuronide | Cid\_71751823 |
|  | 16.alpha.,17,21-Trihydroxypregna-1,4-diene-3,11,20-trione | Cid\_71752789 |
|  | N-Acetyl-D-proline | Cid\_719436 |
|  | N-Acetyl-D-proline | Cid\_719436 |
|  | Polygodial | Cid\_72503 |
|  | Parthenolide | Cid\_7251185 |
|  | Coumarin 334 | Cid\_72655 |
|  | FA 18:2+3o | Cid\_72732143 |
|  | 2-(1H-Pyrrol-1-yl)benzohydrazide | Cid\_727889 |
|  | 1-O-Feruloylglucose | Cid\_72983454 |
|  | 3-Aminoglutaric acid | Cid\_73064 |
|  | (.+/-.)-Medicarpin | Cid\_73067 |
|  | Lactobionic acid | Cid\_7314 |
|  | Epiligulyl oxide | Cid\_73174 |
|  | 6-(2-Hydroxypropan-2-yl)-4,8a-dimethyl-2,3,4,6,7,8-hexahydro-1H-naphthalen-1-ol | Cid\_73189537 |
|  | BES | Cid\_73243 |
|  | Pinoresinol | Cid\_73399 |
|  | 2-Methoxycinnamic acid | Cid\_734154 |
|  | Tetrahydroharman-3-carboxylic acid | Cid\_73530 |
|  | Phenethylthiourea | Cid\_735845 |
|  | Methyl (2E)-3-(3,4,5-trimethoxyphenyl)prop-2-enoate | Cid\_735846 |
|  | Pidolic acid | Cid\_7405 |
|  | Pro-Asn | Cid\_7408192 |
|  | Citrazinic acid | Cid\_7425 |
|  | Botran | Cid\_7430 |
|  | N-Acetyl-L-phenylalanine | Cid\_74839 |
|  | 1-(1,2-Dihydro-6-hydroxy-5-acenaphthylenyl)ethanone | Cid\_749958 |
|  | Mmv676588 | Cid\_751739 |
|  | N-Phenylglycine ethyl ester | Cid\_75190 |
|  | Berkedrimane A | Cid\_75368727 |
|  | 8-Methoxyatractylenolide I | Cid\_75368731 |
|  | Methyl 3-[4-hydroxy-2-(2-methylpropyl)-1-oxo-3,3a-dihydro-2H-imidazo[1,2-a]indol-4-yl]-2-(4-oxoquinazolin-3-yl)propanoate | Cid\_75368782 |
|  | 8-(Hydroxymethyl)-3,8-dimethyl-2-oxooctahydro-3a,7-ethanoindene-4-carboxylic acid | Cid\_75368792 |
|  | 1-Dehydroperuvinine | Cid\_75368816 |
|  | Peruvinine | Cid\_75368817 |
|  | Peruvic acid | Cid\_75368818 |
|  | 2-((1S,3aR,4S,6S,7R,8aR)-1-Hydroxy-4,8a-dimethyloctahydro-1H-3a,6-epoxyazulen-7-yl)prop-2-enoic acid | Cid\_75368819 |
|  | Isorosmanol | Cid\_75411900 |
|  | Mucorisocoumarin B | Cid\_75411939 |
|  | 6-Hydroxy-9a-methoxy-3,8a-dimethyl-5-methylene-4,4a,6,7,8,9-hexahydrobenzo[f]benzofuran-2-one | Cid\_75528890 |
|  | (Z)-9,10,11-Trihydroxy-12-octadecenoic acid | Cid\_75536014 |
|  | 1,3,4,5-Tetrahydrothiopyrano[4,3-b]indole-8-carboxylic acid | Cid\_755947 |
|  | 4-(2-Pyridinylmethoxy)benzaldehyde | Cid\_759667 |
|  | 2,4,6-Trimethyl-N-[3-(trifluoromethyl)phenyl]benzenesulfonamide | Cid\_761523 |
|  | 2-(1-Hydroxy-1-methylethyl)-4a,8-dimethyldecalin-1,5-diol | Cid\_76187279 |
|  | Benzoic acid + 2O, O-Hex | Cid\_76211590 |
|  | Butyl (S)-3-hydroxybutyrate glucoside | Cid\_76463851 |
|  | 4-(2,5-Dimethyl-1-pyrryl)phenylacetic acid | Cid\_767161 |
|  | 2,5-Furandicarboxylic acid | Cid\_76720 |
|  | Histidine | Cid\_773 |
|  | Histamine | Cid\_774 |
|  | Dimethyl sebacate | Cid\_7829 |
|  | Leu-Gly | Cid\_79070 |
|  | N-(3-Nitrobenzyl)cyclohexanamine | Cid\_791978 |
|  | 2-(Diphenylphosphoryl)-N-ethylacetamide | Cid\_796967 |
|  | 3-Pyridol | Cid\_7971 |
|  | N-(5-Phenethyl-[1,3,4]thiadiazol-2-yl)benzamide | Cid\_821478 |
|  | 4-Amino-2,3,6-trimethylphenol | Cid\_82666 |
|  | Palatinose | Cid\_83686 |
|  | D-Aspartic acid | Cid\_83887 |
|  | Methionine sulfoxide | Cid\_847 |
|  | N-Fructosyl phenylalanine | Cid\_85152457 |
|  | 2,2'-Dihydroxy-4,4'-dimethoxybenzophenone | Cid\_8570 |
|  | 3,4-Dihydroxymandelic acid | Cid\_85782 |
|  | Imazamox | Cid\_86137 |
|  | Syringaldehyde | Cid\_8655 |
|  | 3,4-Dihydroxybenzaldehyde | Cid\_8768 |
|  | N-(4-Methoxyphenyl)cyclohexaneacetamide | Cid\_880925 |
|  | ML-099 | Cid\_888706 |
|  | Anileridine | Cid\_8944 |
|  | D-Proline | Cid\_8988 |
|  | D-Psicose | Cid\_90008 |
|  | Tryptophan | Cid\_9060 |
|  | 3-Hydroxybutyrylcarnitine | Cid\_90659885 |
|  | Ethyl 4-(4-methylpiperazin-1-yl)butanoate | Cid\_914998 |
|  | 2-Amino-6-(4-methoxyphenyl)-4-phenylnicotinonitrile | Cid\_915425 |
|  | 3-Methylbuphedrone | Cid\_91696188 |
|  | 3,4-Methylenedioxy-N-benzylcathinone | Cid\_91699622 |
|  | 2-Methyl-.alpha.-pyrrolidinobutiophenone | Cid\_91704996 |
|  | JWH 251 3-methylphenyl isomer | Cid\_91734833 |
|  | N-Acetylglucosaminylasparagine | Cid\_91746260 |
|  | Imazapic | Cid\_91770 |
|  | Arg-Leu | Cid\_92146622 |
|  | Ser-Tyr | Cid\_92259189 |
|  | Curcumenol | Cid\_92281781 |
|  | Ser-Phe | Cid\_92450011 |
|  | (.+/-.)-Vestitol | Cid\_92503 |
|  | Leucic acid | Cid\_92779 |
|  | Naringenin 7-O-beta-D-glucoside | Cid\_92794 |
|  | Melezitose | Cid\_92817 |
|  | .gamma.-Glutamylglutamic acid | Cid\_92865 |
|  | 3-Indolyllactic acid | Cid\_92904 |
|  | L-Arginine, methyl ester | Cid\_92932 |
|  | Ile-Leu | Cid\_92977173 |
|  | Aspartylphenylalanine | Cid\_93078 |
|  | Nicotinic acid | Cid\_938 |
|  | Vulgarin | Cid\_94253 |
|  | Diffractaic acid | Cid\_94870 |
|  | N-(1,1-Dimethylethyl)-3-pyridinemethanamine | Cid\_961528 |
|  | tRNA containing 2'-O-methylguanosine | Cid\_96373 |
|  | 1-Formylproline | Cid\_96434 |
|  | Unguinol | Cid\_97042256 |
|  | 3',4'-Dimethoxyflavonol | Cid\_97143 |
|  | Tyr-Pro | Cid\_9795637 |
|  | Ginsenoside F1 | Cid\_9809542 |
|  | ONO-8711 | Cid\_9824507 |
|  | L-1,2,3,4-Tetrahydro-beta-carboline-3-carboxylic acid | Cid\_98285 |
|  | 1-O-.alpha.-Rhamnopyranosyl-(1''->6')-O-.beta.-D-glucopyranosyl-2-methoxy-4-acetylphenol | Cid\_9832854 |
|  | Fructoselysine | Cid\_9839580 |
|  | 4-O-D-Glucopyranosyl-p-coumaric acid | Cid\_9840292 |
|  | Zeatin-9-glucoside | Cid\_9842892 |
|  | 1-(p-Tolyl)cyclopropanecarbonitrile | Cid\_98628 |
|  | Pantothenic acid | Cid\_988 |
|  | (+)-trans-C75 | Cid\_9881506 |
|  | Cyclo(val-pro) | Cid\_98951 |
|  | 2-Indolinone, 3-hydroxy-3-phenacyl- | Cid\_99051 |
|  | Phenol | Cid\_996 |
|  | Dimethyl 2,4-bis(4-hydroxyphenyl)cyclobutane-1,3-dicarboxylate | Cid\_9968607 |
|  | Alvespimycin | Cid\_99719309 |
|  | 2-Hydroxy-3-methylbutyric acid | Cid\_99823 |

**Table S4│Targets of the components in HRCR-MIAS identified by UHPLC Q-Exactive-MS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | PubCHEM CID | Target | No. | PubCHEM CID | Target |
|  | Cid\_3861164 | ACE |  | Cid\_13401 | EGLN2 |
|  | Cid\_3861164 | HTR2B |  | Cid\_13401 | HIF1AN |
|  | Cid\_3861164 | HTR1A |  | Cid\_13401 | KDM4D |
|  | Cid\_3861164 | HTR2A |  | Cid\_4994 | CYP3A4 |
|  | Cid\_3861164 | HTR2C |  | Cid\_1130 | TKT |
|  | Cid\_3861164 | HTR7 |  | Cid\_1130 | ADAMTS5 |
|  | Cid\_3861164 | MMP3 |  | Cid\_1130 | MMP14 |
|  | Cid\_3861164 | MME |  | Cid\_1130 | CYP26B1 |
|  | Cid\_3861164 | IDO1 |  | Cid\_1130 | CYP26A1 |
|  | Cid\_3861164 | ITGAL |  | Cid\_1130 | GPR35 |
|  | Cid\_3861164 | ECE1 |  | Cid\_1130 | CTSV |
|  | Cid\_3861164 | TACR1 |  | Cid\_40424009 | CAD |
|  | Cid\_3861164 | SLC6A4 |  | Cid\_40424009 | PPM1B |
|  | Cid\_3861164 | ERAP2 |  | Cid\_40424009 | PPP1CC |
|  | Cid\_3861164 | EPHA2 |  | Cid\_10685 | F2RL3 |
|  | Cid\_3861164 | EPHB2 |  | Cid\_2761529 | CDC45 |
|  | Cid\_3861164 | EPHA5 |  | Cid\_5291187 | PDE7B |
|  | Cid\_3861164 | EPHA4 |  | Cid\_5291187 | HPRT1 |
|  | Cid\_3861164 | EPHA8 |  | Cid\_5291187 | ALDH3A1 |
|  | Cid\_3861164 | EPHA6 |  | Cid\_5291187 | PTGDR |
|  | Cid\_3861164 | EPHA7 |  | Cid\_5291187 | FGFR3 |
|  | Cid\_3861164 | EPHB3 |  | Cid\_5291187 | CHRNA3 |
|  | Cid\_3861164 | EPHA3 |  | Cid\_5291187 | CDK5 |
|  | Cid\_3861164 | EPHB1 |  | Cid\_333703 | KIF11 |
|  | Cid\_3861164 | EPHA1 |  | Cid\_333703 | CCR8 |
|  | Cid\_3861164 | EPHB6 |  | Cid\_500 | GABRR1 |
|  | Cid\_3861164 | ADRA2A |  | Cid\_23615384 | SLC7A5 |
|  | Cid\_3861164 | HTR1B |  | Cid\_23615384 | SLC6A1 |
|  | Cid\_3861164 | HTR1D |  | Cid\_23615384 | GABRA3 |
|  | Cid\_3861164 | ADRB1 |  | Cid\_23615384 | SLC6A11 |
|  | Cid\_3861164 | HTR1E |  | Cid\_23615384 | SLC6A13 |
|  | Cid\_3861164 | SLC6A2 |  | Cid\_23615384 | BBOX1 |
|  | Cid\_3861164 | HTR6 |  | Cid\_1102 | CASP2 |
|  | Cid\_3861164 | CTSL |  | Cid\_637541 | TLR4 |
|  | Cid\_3861164 | MC1R |  | Cid\_637541 | TPMT |
|  | Cid\_3861164 | EDNRA |  | Cid\_637541 | NGFR |
|  | Cid\_3861164 | EPHX2 |  | Cid\_1742210 | LSS |
|  | Cid\_3861164 | PPP5C |  | Cid\_442916 | MSR1 |
|  | Cid\_3861164 | PPP1CA |  | Cid\_7829 | CPT1A |
|  | Cid\_3861164 | TOP1 |  | Cid\_7829 | LIMK2 |
|  | Cid\_3861164 | EDNRB |  | Cid\_7829 | ATP4B |
|  | Cid\_3861164 | CTSC |  | Cid\_7829 | TSPO |
|  | Cid\_3861164 | CTSA |  | Cid\_7829 | PTK6 |
|  | Cid\_3861164 | CCR3 |  | Cid\_100642075 | LYPLA1 |
|  | Cid\_3861164 | PPARG |  | Cid\_100642075 | LYPLA2 |
|  | Cid\_3861164 | SORT1 |  | Cid\_100642075 | CALM1 |
|  | Cid\_3861164 | CPA1 |  | Cid\_100642075 | CYP24A1 |
|  | Cid\_3861164 | ACE2 |  | Cid\_100642075 | CYP27A1 |
|  | Cid\_3861164 | SLC6A3 |  | Cid\_100642075 | SNCA |
|  | Cid\_3861164 | PTPN1 |  | Cid\_100642075 | F3 |
|  | Cid\_3861164 | PTPN2 |  | Cid\_100642075 | CETP |
|  | Cid\_3861164 | ITGB1 |  | Cid\_100642075 | NFE2L2 |
|  | Cid\_3861164 | PDE7A |  | Cid\_100642075 | DPP7 |
|  | Cid\_3861164 | BCAT2 |  | Cid\_1183 | EP300 |
|  | Cid\_3861164 | HSD11B1 |  | Cid\_773 | GFPT1 |
|  | Cid\_3861164 | TTR |  | Cid\_773 | KYNU |
|  | Cid\_3861164 | NR4A1 |  | Cid\_439232 | PEPD |
|  | Cid\_3861164 | HSPA1A |  | Cid\_439232 | TH |
|  | Cid\_3861164 | NTSR1 |  | Cid\_719436 | SLC5A1 |
|  | Cid\_3861164 | CYP19A1 |  | Cid\_6451888 | ITGAV |
|  | Cid\_3861164 | KMO |  | Cid\_6451888 | FURIN |
|  | Cid\_3861164 | RBP4 |  | Cid\_6451888 | PCSK6 |
|  | Cid\_3861164 | PTGS1 |  | Cid\_6451888 | HGFAC |
|  | Cid\_3861164 | GSR |  | Cid\_6451888 | RXRB |
|  | Cid\_3861164 | PDE9A |  | Cid\_6451888 | RXRG |
|  | Cid\_3861164 | LDHA |  | Cid\_6451888 | RARB |
|  | Cid\_3861164 | AKR1C2 |  | Cid\_6451888 | RXRA |
|  | Cid\_3861164 | PTGS2 |  | Cid\_6451888 | CFB |
|  | Cid\_3861164 | EPHB4 |  | Cid\_6451888 | CACNA1G |
|  | Cid\_3861164 | PDGFRB |  | Cid\_6451888 | NTSR2 |
|  | Cid\_3861164 | FGFR1 |  | Cid\_6451888 | CAMK2D |
|  | Cid\_3861164 | KDM5A |  | Cid\_6451888 | F9 |
|  | Cid\_3861164 | KDM5B |  | Cid\_229579 | SPHK1 |
|  | Cid\_3861164 | KDM2B |  | Cid\_229579 | KISS1R |
|  | Cid\_3861164 | KDM4C |  | Cid\_2787526 | RAD51 |
|  | Cid\_3861164 | FABP4 |  | Cid\_2787526 | CCKAR |
|  | Cid\_3861164 | FABP5 |  | Cid\_2787526 | ITGB1 |
|  | Cid\_3861164 | PTGER3 |  | Cid\_2787526 | ERAP1 |
|  | Cid\_3861164 | PIK3CA |  | Cid\_2787526 | TNNI3K |
|  | Cid\_3861164 | MMP8 |  | Cid\_2787526 | CSNK2A1 |
|  | Cid\_3861164 | CTSB |  | Cid\_2787526 | MKNK2 |
|  | Cid\_3861164 | FABP1 |  | Cid\_2787526 | RHOA |
|  | Cid\_3861164 | MAP3K8 |  | Cid\_2787526 | ITGB1 |
|  | Cid\_3861164 | OPRM1 |  | Cid\_2787526 | P4HTM |
|  | Cid\_3861164 | GHSR |  | Cid\_2787526 | ATIC |
|  | Cid\_3861164 | FFAR1 |  | Cid\_2787526 | NTRK2 |
|  | Cid\_3861164 | CDC25B |  | Cid\_2787526 | PTPsigma |
|  | Cid\_3861164 | AMPD3 |  | Cid\_2787526 | AURKC |
|  | Cid\_3861164 | CMA1 |  | Cid\_11778214 | ADRB2 |
|  | Cid\_3861164 | PTPRF |  | Cid\_11778214 | CDK6 |
|  | Cid\_3861164 | DRD5 |  | Cid\_11778214 | CDK3 |
|  | Cid\_3861164 | ADRB3 |  | Cid\_11778214 | DRD1 |
|  | Cid\_3861164 | AKR1A1 |  | Cid\_11778214 | CDK8 |
|  | Cid\_3861164 | DAO |  | Cid\_11778214 | GRK7 |
|  | Cid\_3861164 | CXCL8 |  | Cid\_11778214 | STK38 |
|  | Cid\_3861164 | CREBBP |  | Cid\_11778214 | HIPK4 |
|  | Cid\_3861164 | ST3GAL1 |  | Cid\_11778214 | OXSR1 |
|  | Cid\_3861164 | KDM6B |  | Cid\_11778214 | STK39 |
|  | Cid\_3861164 | PTGIR |  | Cid\_11778214 | MAP3K13 |
|  | Cid\_3861164 | PDF |  | Cid\_11778214 | ICK |
|  | Cid\_92904 | ALPL |  | Cid\_11778214 | MAP3K15 |
|  | Cid\_92904 | CA2 |  | Cid\_11778214 | MAST1 |
|  | Cid\_92904 | CTNNB1 |  | Cid\_11778214 | SBK1 |
|  | Cid\_92904 | KDM2A |  | Cid\_11778214 | HUNK |
|  | Cid\_92904 | PHF8 |  | Cid\_11778214 | PRPF4B |
|  | Cid\_92904 | EGLN1 |  | Cid\_11778214 | SNRK |
|  | Cid\_92904 | FYN |  | Cid\_10635 | HIF1A |
|  | Cid\_92904 | MAOA |  | Cid\_227752 | GRK2 |
|  | Cid\_92904 | MAOB |  | Cid\_734154 | SLC16A1 |
|  | Cid\_10922465 | CES2 |  | Cid\_734154 | PAM |
|  | Cid\_10922465 | NR1H3 |  | Cid\_734154 | NOTUM |
|  | Cid\_10922465 | PRKCH |  | Cid\_734154 | PLEC |
|  | Cid\_10922465 | HSD11B2 |  | Cid\_734154 | PTPRG |
|  | Cid\_10922465 | PTPN11 |  | Cid\_114679 | MPI |
|  | Cid\_10922465 | PTPN6 |  | Cid\_114679 | KCNJ1 |
|  | Cid\_10922465 | FABP3 |  | Cid\_114679 | VEGFA |
|  | Cid\_10922465 | PTGES |  | Cid\_91704996 | ADRA1A |
|  | Cid\_10922465 | AKR1B10 |  | Cid\_91704996 | DRD3 |
|  | Cid\_10922465 | CDC25A |  | Cid\_91704996 | HTR1F |
|  | Cid\_10922465 | PREP |  | Cid\_91696188 | ROCK2 |
|  | Cid\_10922465 | FNTA |  | Cid\_91696188 | PTK2 |
|  | Cid\_10922465 | BCHE |  | Cid\_43794772 | SLC18A2 |
|  | Cid\_10922465 | ALOX5 |  | Cid\_43794772 | CHRNA3 |
|  | Cid\_10922465 | NOS2 |  | Cid\_43794772 | GAPDH |
|  | Cid\_10922465 | BACE1 |  | Cid\_43794772 | CCNE2 |
|  | Cid\_10922465 | FAAH |  | Cid\_43794772 | ECE2 |
|  | Cid\_10922465 | PPARD |  | Cid\_43794772 | ATM |
|  | Cid\_10922465 | NPC1L1 |  | Cid\_43794772 | DNMT3A |
|  | Cid\_10922465 | NR3C1 |  | Cid\_43794772 | TNFRSF1A |
|  | Cid\_10922465 | SERPINA6 |  | Cid\_43794772 | HTR4 |
|  | Cid\_10922465 | SIGMAR1 |  | Cid\_43794772 | PLK3 |
|  | Cid\_10922465 | SHBG |  | Cid\_57486975 | KDM1A |
|  | Cid\_10922465 | CYP17A1 |  | Cid\_57486975 | CHKA |
|  | Cid\_10922465 | PPARA |  | Cid\_57486975 | NR1D1 |
|  | Cid\_10922465 | SCD |  | Cid\_101184 | YARS |
|  | Cid\_10922465 | ADORA3 |  | Cid\_101184 | SLCO1B1 |
|  | Cid\_10922465 | MAPK3 |  | Cid\_101184 | PARP15 |
|  | Cid\_10922465 | RORC |  | Cid\_101184 | TAS1R3 |
|  | Cid\_10922465 | POLB |  | Cid\_101184 | OXER1 |
|  | Cid\_10922465 | PDE4D |  | Cid\_101184 | CXCR1 |
|  | Cid\_10922465 | HMGCR |  | Cid\_101184 | CSNK2A2 |
|  | Cid\_10922465 | PLA2G1B |  | Cid\_101184 | ACER2 |
|  | Cid\_10922465 | ACP1 |  | Cid\_101184 | PDYN |
|  | Cid\_10922465 | G6PD |  | Cid\_5984 | ACLY |
|  | Cid\_10922465 | CYP51A1 |  | Cid\_5984 | PYGB |
|  | Cid\_10922465 | SRD5A2 |  | Cid\_5984 | PYGM |
|  | Cid\_10922465 | TOP2A |  | Cid\_2181 | CHRNB1 |
|  | Cid\_10922465 | RORA |  | Cid\_2181 | CHRNB4 |
|  | Cid\_10922465 | ESR2 |  | Cid\_2181 | CHRNB4 |
|  | Cid\_10922465 | CD81 |  | Cid\_2181 | CHRNB3 |
|  | Cid\_10922465 | TERT |  | Cid\_2181 | CHRNA2 |
|  | Cid\_10922465 | AR |  | Cid\_2181 | DPP9 |
|  | Cid\_10922465 | PTGER2 |  | Cid\_3542461 | HTR5A |
|  | Cid\_10922465 | CES1 |  | Cid\_3542461 | IFNAR1 |
|  | Cid\_10922465 | PTGER1 |  | Cid\_43183355 | CBX7 |
|  | Cid\_10922465 | TNF |  | Cid\_43183355 | CBX4 |
|  | Cid\_10922465 | CNR1 |  | Cid\_43183355 | BIRC2 |
|  | Cid\_10922465 | SLC22A12 |  | Cid\_43183355 | ITGB7 |
|  | Cid\_10922465 | PTGDR2 |  | Cid\_43183355 | BIRC3 |
|  | Cid\_10922465 | HSD17B2 |  | Cid\_43183355 | ADAMTS4 |
|  | Cid\_10922465 | ESR1 |  | Cid\_43183355 | NPPA |
|  | Cid\_10922465 | PDPK1 |  | Cid\_43183355 | LPAR3 |
|  | Cid\_10922465 | PGR |  | Cid\_43183355 | HLA-DRB1 |
|  | Cid\_10922465 | MIF |  | Cid\_43183355 | GALR1 |
|  | Cid\_10922465 | PTGER4 |  | Cid\_43183355 | GALR2 |
|  | Cid\_10922465 | SRD5A1 |  | Cid\_43183355 | RRM1 |
|  | Cid\_10922465 | NR1I2 |  | Cid\_43183355 | AGTR2 |
|  | Cid\_10922465 | HSD17B3 |  | Cid\_43183355 | ITGA4 |
|  | Cid\_10922465 | NR1I3 |  | Cid\_43183355 | BAD |
|  | Cid\_57509469 | P11511 |  | Cid\_43183355 | ADAM12 |
|  | Cid\_57509469 | P54707 |  | Cid\_10130 | GSTK1 |
|  | Cid\_57509469 | Q53EL6 |  | Cid\_10130 | IDE |
|  | Cid\_57509469 | P35354 |  | Cid\_68072 | CTBP2 |
|  | Cid\_57509469 | O60885 |  | Cid\_68072 | NEK2 |
|  | Cid\_57509469 | P25440 |  | Cid\_68072 | AXL |
|  | Cid\_57509469 | P04054 |  | Cid\_914998 | CHEK2 |
|  | Cid\_57509469 | P04035 |  | Cid\_914998 | POLR1A |
|  | Cid\_57509469 | P67775 |  | Cid\_914998 | PBK |
|  | Cid\_57509469 | P10275 |  | Cid\_914998 | PRMT6 |
|  | Cid\_57509469 | P06401 |  | Cid\_914998 | PRMT8 |
|  | Cid\_57509469 | P17252 |  | Cid\_914998 | NQO1 |
|  | Cid\_57509469 | O75582 |  | Cid\_914998 | ATAD2 |
|  | Cid\_57509469 | P41252 |  | Cid\_914998 | EBP |
|  | Cid\_57509469 | P30307 |  | Cid\_914998 | CPT1B |
|  | Cid\_57509469 | P55085 |  | Cid\_914998 | CHRNA1 |
|  | Cid\_57509469 | O00311 |  | Cid\_914998 | L3MBTL1 |
|  | Cid\_57509469 | Q06124 |  | Cid\_914998 | L3MBTL3 |
|  | Cid\_57509469 | P37231 |  | Cid\_914998 | TBK1 |
|  | Cid\_57509469 | P23458 |  | Cid\_914998 | SSTR4 |
|  | Cid\_57509469 | P23219 |  | Cid\_914998 | DYRK3 |
|  | Cid\_57509469 | P36873 |  | Cid\_914998 | CSNK1E |
|  | Cid\_57509469 | P05067 |  | Cid\_914998 | UTS2R |
|  | Cid\_57509469 | P09488 |  | Cid\_727889 | AOC2 |
|  | Cid\_57509469 | P30304 |  | Cid\_727889 | MAP2K3 |
|  | Cid\_57509469 | P14555 |  | Cid\_727889 | CSNK1G1 |
|  | Cid\_57509469 | P52333 |  | Cid\_727889 | RPS6KA1 |
|  | Cid\_57509469 | P29597 |  | Cid\_727889 | CSNK1A1 |
|  | Cid\_57509469 | P05023 |  | Cid\_727889 | KCNN1 |
|  | Cid\_57509469 | P04150 |  | Cid\_727889 | KCNN2 |
|  | Cid\_57509469 | O60674 |  | Cid\_727889 | CDK9 |
|  | Cid\_57509469 | P15538 |  | Cid\_727889 | BMP4 |
|  | Cid\_57509469 | P19099 |  | Cid\_727889 | PTPN13 |
|  | Cid\_57509469 | Q15393 |  | Cid\_92932 | AKT2 |
|  | Cid\_57509469 | Q8IV61 |  | Cid\_92932 | AKT3 |
|  | Cid\_57509469 | Q16549 |  | Cid\_3013625 | DLG4 |
|  | Cid\_57509469 | Q5S007 |  | Cid\_3013625 | XPNPEP1 |
|  | Cid\_57509469 | P08183 |  | Cid\_3013625 | XPNPEP2 |
|  | Cid\_57509469 | P14174 |  | Cid\_3013625 | GLO1 |
|  | Cid\_57509469 | P09874 |  | Cid\_3013625 | TNFRSF10A |
|  | Cid\_57509469 | Q15078 |  | Cid\_3013625 | NRP1 |
|  | Cid\_57509469 | Q08499 |  | Cid\_70912 | HCAR3 |
|  | Cid\_57509469 | O00329 |  | Cid\_45360204 | SLC29A1 |
|  | Cid\_57509469 | P78527 |  | Cid\_45360204 | SLC28A2 |
|  | Cid\_57509469 | P42338 |  | Cid\_45360204 | SLC5A2 |
|  | Cid\_57509469 | Q96RJ0 |  | Cid\_6993111 | CPB1 |
|  | Cid\_57509469 | O14757 |  | Cid\_5281166 | ITGAV |
|  | Cid\_57509469 | P59538 |  | Cid\_122334 | ADRA2C |
|  | Cid\_57509469 | P11388 |  | Cid\_122334 | HASPIN |
|  | Cid\_57509469 | P30305 |  | Cid\_122334 | SCN4A |
|  | Cid\_11746594 | NR3C2 |  | Cid\_122334 | PHLPP2 |
|  | Cid\_11746594 | PRKCA |  | Cid\_122334 | GRIN2B |
|  | Cid\_11746594 | IL6 |  | Cid\_122334 | SSTR2 |
|  | Cid\_11746594 | GLUL |  | Cid\_132999 | HCN4 |
|  | Cid\_11746594 | GPBAR1 |  | Cid\_132999 | HCN2 |
|  | Cid\_11746594 | RASGRP3 |  | Cid\_132999 | HCN1 |
|  | Cid\_11746594 | DRD2 |  | Cid\_132999 | GNRHR |
|  | Cid\_11746594 | KMT5A |  | Cid\_132999 | CDC42BPA |
|  | Cid\_11746594 | ADAM17 |  | Cid\_132999 | SGPL1 |
|  | Cid\_11746594 | PRKCG |  | Cid\_132999 | ADK |
|  | Cid\_11746594 | PRKCD |  | Cid\_132999 | PRKCI |
|  | Cid\_11746594 | PRKCB |  | Cid\_132999 | CALCRL |
|  | Cid\_11746594 | PRKCE |  | Cid\_132999 | ACKR3 |
|  | Cid\_11746594 | PRKCQ |  | Cid\_132999 | ADIPOR1 |
|  | Cid\_11746594 | JAK3 |  | Cid\_132999 | ADIPOR2 |
|  | Cid\_11746594 | JAK1 |  | Cid\_132999 | CCL5 |
|  | Cid\_11746594 | JAK2 |  | Cid\_132999 | PDE11A |
|  | Cid\_11746594 | TYK2 |  | Cid\_132999 | ITK |
|  | Cid\_11746594 | PSEN2 |  | Cid\_132999 | PKN2 |
|  | Cid\_11746594 | TRPA1 |  | Cid\_132999 | KARS |
|  | Cid\_11746594 | NPY5R |  | Cid\_132999 | NPY2R |
|  | Cid\_11746594 | CA6 |  | Cid\_132999 | KCNJ5 |
|  | Cid\_11746594 | CA4 |  | Cid\_132999 | MAP3K7 |
|  | Cid\_11746594 | TAAR1 |  | Cid\_132999 | PDGFRA |
|  | Cid\_11746594 | CCR1 |  | Cid\_442356 | DHCR7 |
|  | Cid\_11746594 | ALOX12 |  | Cid\_442356 | RBBP9 |
|  | Cid\_11746594 | CHRNA3 |  | Cid\_442356 | AADAT |
|  | Cid\_11746594 | PDE10A |  | Cid\_442356 | QDPR |
|  | Cid\_11746594 | ITGAL |  | Cid\_228537 | ESRRG |
|  | Cid\_11746594 | CYP11B1 |  | Cid\_228537 | NEK6 |
|  | Cid\_11746594 | CYP11B2 |  | Cid\_228537 | UQCRB |
|  | Cid\_11746594 | MAPK14 |  | Cid\_228537 | MYLK |
|  | Cid\_11746594 | MAP2K1 |  | Cid\_228537 | DBF4 |
|  | Cid\_11746594 | MTNR1A |  | Cid\_228537 | UPP1 |
|  | Cid\_5280378 | IL2 |  | Cid\_23930375 | TK2 |
|  | Cid\_5280378 | ALDH2 |  | Cid\_23930375 | APEX1 |
|  | Cid\_5280378 | CA12 |  | Cid\_23930375 | CBFB |
|  | Cid\_5280378 | ADORA1 |  | Cid\_9968607 | DUT |
|  | Cid\_5280378 | ADORA2A |  | Cid\_9968607 | MT-CO2 |
|  | Cid\_5280378 | TBXAS1 |  | Cid\_9968607 | NCOR2 |
|  | Cid\_5280378 | MGAM |  | Cid\_9968607 | HDAC11 |
|  | Cid\_5280378 | ESRRA |  | Cid\_9968607 | HDAC9 |
|  | Cid\_5280378 | ESRRB |  | Cid\_9968607 | HDAC10 |
|  | Cid\_5280378 | ABCG2 |  | Cid\_9968607 | FCER2 |
|  | Cid\_5280378 | CA7 |  | Cid\_5319562 | AKR1C4 |
|  | Cid\_5280378 | CBR1 |  | Cid\_5319562 | ALDH5A1 |
|  | Cid\_5280378 | EGFR |  | Cid\_5319562 | TMIGD3 |
|  | Cid\_5280378 | TYR |  | Cid\_464 | SLC16A3 |
|  | Cid\_5280378 | XDH |  | Cid\_439213 | SI |
|  | Cid\_5280378 | PFKFB3 |  | Cid\_14480057 | NUDT1 |
|  | Cid\_5280378 | PTPRS |  | Cid\_14480057 | PKM |
|  | Cid\_5280378 | HSD17B1 |  | Cid\_14480057 | OXTR |
|  | Cid\_5280378 | ABCB1 |  | Cid\_75190 | USP10 |
|  | Cid\_5280378 | ALOX15 |  | Cid\_75190 | USP13 |
|  | Cid\_5280378 | TLR9 |  | Cid\_75190 | C1R |
|  | Cid\_5280378 | CA1 |  | Cid\_75190 | KLK1 |
|  | Cid\_5280378 | NOX4 |  | Cid\_75190 | C1S |
|  | Cid\_5280378 | PON1 |  | Cid\_75190 | CTRB1 |
|  | Cid\_5280378 | TNKS2 |  | Cid\_75190 | CTSG |
|  | Cid\_5280378 | TNKS |  | Cid\_75190 | CTSH |
|  | Cid\_5280378 | ACHE |  | Cid\_4071159 | NMUR2 |
|  | Cid\_5280378 | CA3 |  | Cid\_4071159 | FUCA1 |
|  | Cid\_5280378 | CA14 |  | Cid\_240106 | F13A1 |
|  | Cid\_5280378 | CA13 |  | Cid\_240106 | XPO1 |
|  | Cid\_5280378 | CA5B |  | Cid\_2735705 | PARP14 |
|  | Cid\_5280378 | CA5A |  | Cid\_1042026 | CALCRL |
|  | Cid\_5280378 | DHODH |  | Cid\_1042026 | LYN |
|  | Cid\_5280378 | STS |  | Cid\_1042026 | STK17B |
|  | Cid\_5280378 | ERCC5 |  | Cid\_1042026 | LGMN |
|  | Cid\_5280378 | FEN1 |  | Cid\_1042026 | BRD9 |
|  | Cid\_5280378 | RAF1 |  | Cid\_1042026 | PDE1C |
|  | Cid\_5280378 | CA9 |  | Cid\_1042026 | MAP4K4 |
|  | Cid\_7251185 | PGGT1B |  | Cid\_1042026 | INSR |
|  | Cid\_7251185 | JUN |  | Cid\_1042026 | MAP3K12 |
|  | Cid\_7251185 | VAV1 |  | Cid\_1042026 | PLD1 |
|  | Cid\_7251185 | TRPV4 |  | Cid\_1042026 | PLD2 |
|  | Cid\_7251185 | SLC2A1 |  | Cid\_1042026 | TRHR |
|  | Cid\_7251185 | ADCY1 |  | Cid\_1042026 | GPR39 |
|  | Cid\_7251185 | MDM2 |  | Cid\_1042026 | PANK1 |
|  | Cid\_7251185 | GLRA2 |  | Cid\_1042026 | TXK |
|  | Cid\_7251185 | F2RL1 |  | Cid\_1042026 | TAOK2 |
|  | Cid\_7251185 | IARS |  | Cid\_5319022 | GPR55 |
|  | Cid\_7251185 | SF3B3 |  | Cid\_5319022 | CEL |
|  | Cid\_7251185 | METAP2 |  | Cid\_5319022 | RAPGEF4 |
|  | Cid\_7251185 | CCR2 |  | Cid\_10477119 | CX3CR1 |
|  | Cid\_7251185 | MAPK10 |  | Cid\_10477119 | LIPG |
|  | Cid\_7251185 | CSNK1D |  | Cid\_10477119 | F3 |
|  | Cid\_7251185 | MAPK9 |  | Cid\_10477119 | NFKB1 |
|  | Cid\_7251185 | EPHX1 |  | Cid\_10477119 | RELA |
|  | Cid\_7251185 | PDCD4 |  | Cid\_10477119 | ROS1 |
|  | Cid\_7251185 | F2 |  | Cid\_10477119 | F11 |
|  | Cid\_7251185 | HCRTR2 |  | Cid\_10477119 | PRSS3 |
|  | Cid\_7251185 | HCRTR1 |  | Cid\_10477119 | TYRO3 |
|  | Cid\_7251185 | NLRP3 |  | Cid\_5283028 | ATP12A |
|  | Cid\_7251185 | IKBKB |  | Cid\_445858 | CYP1A1 |
|  | Cid\_7251185 | BCL2L1 |  | Cid\_98951 | CAPN1 |
|  | Cid\_7251185 | CYP2A6 |  | Cid\_98951 | DPP8 |
|  | Cid\_336327 | RET |  | Cid\_98951 | WDR5 |
|  | Cid\_336327 | LCK |  | Cid\_98951 | CELA1 |
|  | Cid\_336327 | ALK |  | Cid\_98951 | GZMB |
|  | Cid\_336327 | PIM1 |  | Cid\_98951 | TMPRSS6 |
|  | Cid\_336327 | PIM2 |  | Cid\_98951 | HPN |
|  | Cid\_336327 | KDR |  | Cid\_98951 | ST14 |
|  | Cid\_336327 | CHEK1 |  | Cid\_98951 | TPSAB1 |
|  | Cid\_336327 | WEE1 |  | Cid\_98951 | MEN1 |
|  | Cid\_336327 | GSK3B |  | Cid\_10198252 | ITGB1 |
|  | Cid\_336327 | KIT |  | Cid\_3470698 | HPSE |
|  | Cid\_336327 | MKNK1 |  | Cid\_14448072 | TTL |
|  | Cid\_336327 | MMP1 |  | Cid\_3852139 | TDP1 |
|  | Cid\_336327 | RPS6KA2 |  | Cid\_3852139 | SIRT5 |
|  | Cid\_336327 | MAPKAPK2 |  | Cid\_3852139 | PPP2CA |
|  | Cid\_336327 | PARP1 |  | Cid\_3852139 | TAS2R31 |
|  | Cid\_336327 | EIF4A1 |  | Cid\_3852139 | LIPA |
|  | Cid\_336327 | COMT |  | Cid\_3852139 | PCSK7 |
|  | Cid\_336327 | HTT |  | Cid\_3852139 | S1PR2 |
|  | Cid\_336327 | VCP |  | Cid\_3852139 | MTAP |
|  | Cid\_336327 | HDAC2 |  | Cid\_3852139 | GAA |
|  | Cid\_336327 | CCND3 |  | Cid\_3852139 | MAN1B1 |
|  | Cid\_336327 | ERN1 |  | Cid\_3852139 | GSTM1 |
|  | Cid\_336327 | LNPEP |  | Cid\_3852139 | ATP2A1 |
|  | Cid\_336327 | TYMS |  | Cid\_3852139 | SREBF2 |
|  | Cid\_336327 | CASP3 |  | Cid\_3852139 | PRMT3 |
|  | Cid\_336327 | CASP7 |  | Cid\_354654 | SLC10A2 |
|  | Cid\_336327 | MET |  | Cid\_354654 | SLC37A4 |
|  | Cid\_336327 | MTOR |  | Cid\_354654 | MMEL1 |
|  | Cid\_336327 | PIK3CD |  | Cid\_354654 | CPT2 |
|  | Cid\_336327 | PIK3CB |  | Cid\_354654 | CAPN2 |
|  | Cid\_336327 | PIK3CG |  | Cid\_354654 | AMPD2 |
|  | Cid\_336327 | GSTP1 |  | Cid\_354654 | IL1B |
|  | Cid\_336327 | GSTM2 |  | Cid\_354654 | MMP10 |
|  | Cid\_336327 | ABL1 |  | Cid\_354654 | AVPR2 |
|  | Cid\_336327 | PDE4A |  | Cid\_354654 | AVPR1A |
|  | Cid\_336327 | PDE4B |  | Cid\_354654 | STK17A |
|  | Cid\_336327 | PDE4C |  | Cid\_354654 | QPCTL |
|  | Cid\_336327 | PRKDC |  | Cid\_354654 | CSK |
|  | Cid\_336327 | HCK |  | Cid\_354654 | ERG |
|  | Cid\_336327 | ADORA2B |  | Cid\_354654 | CAMKK2 |
|  | Cid\_336327 | SRC |  | Cid\_354654 | IGFBP3 |
|  | Cid\_336327 | TUBB1 |  | Cid\_354654 | CFTR |
|  | Cid\_336327 | TUBB3 |  | Cid\_354654 | OGA |
|  | Cid\_336327 | CDK2 |  | Cid\_354654 | ADA |
|  | Cid\_336327 | CDK4 |  | Cid\_354654 | GLRA1 |
|  | Cid\_336327 | MMP7 |  | Cid\_354654 | ADCY5 |
|  | Cid\_336327 | MBD2 |  | Cid\_354654 | LGALS3 |
|  | Cid\_336327 | CDK5R1 |  | Cid\_354654 | LGALS9 |
|  | Cid\_336327 | CLK1 |  | Cid\_354654 | HK2 |
|  | Cid\_336327 | CLK3 |  | Cid\_354654 | HK1 |
|  | Cid\_336327 | DYRK2 |  | Cid\_354654 | AMY2A |
|  | Cid\_336327 | DGAT1 |  | Cid\_354654 | TREH |
|  | Cid\_336327 | PIK3CA |  | Cid\_354654 | NEU2 |
|  | Cid\_336327 | PLK1 |  | Cid\_344187 | AGPAT2 |
|  | Cid\_336327 | IRAK4 |  | Cid\_344187 | HLA-DRB3 |
|  | Cid\_336327 | AURKA |  | Cid\_344187 | RGS4 |
|  | Cid\_336327 | RPS6KA5 |  | Cid\_344187 | MAP3K20 |
|  | Cid\_336327 | MMP9 |  | Cid\_344187 | ABL2 |
|  | Cid\_336327 | MMP2 |  | Cid\_344187 | TGFBR2 |
|  | Cid\_336327 | GRIA1 |  | Cid\_344187 | MAP2 |
|  | Cid\_336327 | SYK |  | Cid\_344187 | RIPK2 |
|  | Cid\_336327 | ROCK2 |  | Cid\_344187 | STK3 |
|  | Cid\_336327 | ALPG |  | Cid\_344187 | STK26 |
|  | Cid\_181557 | BRD4 |  | Cid\_344187 | SLC27A1 |
|  | Cid\_181557 | BRD2 |  | Cid\_344187 | C5AR1 |
|  | Cid\_181557 | CDK1 |  | Cid\_344187 | SLC27A4 |
|  | Cid\_71694446 | P2RX7 |  | Cid\_344187 | RIPK3 |
|  | Cid\_71694446 | ADRA1D |  | Cid\_344187 | HAO2 |
|  | Cid\_71694446 | FADS1 |  | Cid\_344187 | SSTR5 |
|  | Cid\_71694446 | LIPE |  | Cid\_344187 | SSTR1 |
|  | Cid\_71694446 | APP |  | Cid\_344187 | SSTR3 |
|  | Cid\_71694446 | MTNR1B |  | Cid\_344187 | UBA1 |
|  | Cid\_14106072 | CTSD |  | Cid\_344187 | YES1 |
|  | Cid\_14106072 | CCR5 |  | Cid\_344187 | FASN |
|  | Cid\_14106072 | TRPV1 |  | Cid\_344187 | BHMT |
|  | Cid\_14106072 | CTSK |  | Cid\_344187 | KYAT3 |
|  | Cid\_14106072 | CTSS |  | Cid\_344187 | ATP1A1 |
|  | Cid\_14106072 | GABRB3 |  | Cid\_344187 | FGF1 |
|  | Cid\_14106072 |  |  | Cid\_344187 | FGF2 |
|  | Cid\_14106072 |  |  | Cid\_344187 | LGALS4 |
|  | Cid\_14106072 | GABRA2 |  | Cid\_344187 | LGALS8 |
|  | Cid\_14106072 |  |  | Cid\_344187 | MTTP |
|  | Cid\_14106072 | PIN1 |  | Cid\_344187 | APOB |
|  | Cid\_14106072 | FAP |  | Cid\_344187 | MDM4 |
|  | Cid\_14106072 | CHRM1 |  | Cid\_344187 | ELOVL6 |
|  | Cid\_14106072 | MC4R |  | Cid\_344187 | C3AR1 |
|  | Cid\_14106072 | CHRM4 |  | Cid\_344187 | TEK |
|  | Cid\_14106072 | CHRM5 |  | Cid\_344187 | SELP |
|  | Cid\_14106072 | PRSS1 |  | Cid\_344187 | SELL |
|  | Cid\_14106072 | CHRM3 |  | Cid\_344187 | SLC46A1 |
|  | Cid\_14106072 | NQO2 |  | Cid\_344187 | FOLR1 |
|  | Cid\_14106072 | GPR139 |  | Cid\_344187 | GART |
|  | Cid\_14106072 | GABRA1 |  | Cid\_344187 | SLC19A1 |
|  | Cid\_14106072 | HMOX1 |  | Cid\_344187 | FOLR2 |
|  | Cid\_14106072 | MPO |  | Cid\_344187 | ITGB5 |
|  | Cid\_14106072 | KCNA5 |  | Cid\_344187 | FGFR2 |
|  | Cid\_14106072 | FKBP1A |  | Cid\_344187 | F5 |
|  | Cid\_14106072 | GRM5 |  | Cid\_344187 | LPAR1 |
|  | Cid\_14106072 | SIRT2 |  | Cid\_344187 | LPAR5 |
|  | Cid\_14543627 | ABCC9 |  | Cid\_344187 | ITGAV |
|  | Cid\_14543627 | MAPK1 |  | Cid\_344187 | PPP2R5A |
|  | Cid\_14543627 | LRRK2 |  | Cid\_344187 | SLC5A4 |
|  | Cid\_14543627 | PYGL |  | Cid\_344187 | HSPA8 |
|  | Cid\_14543627 | DRD4 |  | Cid\_344187 | MANBA |
|  | Cid\_14543627 | JAK3 |  | Cid\_344187 | CDA |
|  | Cid\_14543627 | ICMT |  | Cid\_344187 | HSPA5 |
|  | Cid\_14543627 | PSMB5 |  | Cid\_344187 | VARS |
|  | Cid\_14543627 | TK1 |  | Cid\_344187 | LARS |
|  | Cid\_14543627 | VHL |  | Cid\_344187 | AMY1A |
|  | Cid\_14543627 | DYRK1A |  | Cid\_344187 | HRAS |
|  | Cid\_14543627 | MAPK11 |  | Cid\_344187 | F7 |
|  | Cid\_14543627 | KCNE1 |  | Cid\_344187 | SGK1 |
|  | Cid\_14543627 | IMPDH2 |  | Cid\_344187 | PGF |
|  | Cid\_14543627 | HSP90AB1 |  | Cid\_344187 | FOS |
|  | Cid\_14543627 | CDC7 |  | Cid\_344187 | NEU3 |
|  | Cid\_14543627 | PER2 |  | Cid\_6482234 | FFAR4 |
|  | Cid\_14543627 | LTA4H |  | Cid\_6482234 | MMP16 |
|  | Cid\_14543627 | PSEN1 |  | Cid\_6482234 | MARS |
|  | Cid\_14543627 | CCNA2 |  | Cid\_6482234 | HNF4A |
|  | Cid\_14543627 | PSEN2 |  | Cid\_6482234 | PLA2G2E |
|  | Cid\_14543627 | KCNH2 |  | Cid\_6482234 | PLA2G2F |
|  | Cid\_14543627 | KCNJ11 |  | Cid\_6482234 | PLA2G2D |
|  | Cid\_14543627 | PARP3 |  | Cid\_138486 | Q9Y233 |
|  | Cid\_14543627 | HPGDS |  | Cid\_138486 | P31645 |
|  | Cid\_14543627 | CXCR2 |  | Cid\_138486 | P00734 |
|  | Cid\_14543627 | PSMB2 |  | Cid\_138486 | P07477 |
|  | Cid\_14543627 | PSMB1 |  | Cid\_735846 | EZR |
|  | Cid\_14543627 | AKT1 |  | Cid\_735846 | IKBKE |
|  | Cid\_14543627 | CCNE1 |  | Cid\_735846 | PDE1B |
|  | Cid\_14543627 | CTRC |  | Cid\_735846 | RIPK1 |
|  | Cid\_14543627 | IL6ST |  | Cid\_735846 | PTP4A3 |
|  | Cid\_14543627 | TLR8 |  | Cid\_135411330 | QRFPR |
|  | Cid\_14543627 | MAP3K14 |  | Cid\_135411330 | GPR84 |
|  | Cid\_14543627 | TLR7 |  | Cid\_135411330 | CCR9 |
|  | Cid\_14543627 | TRPM8 |  | Cid\_135411330 | CHAT |
|  | Cid\_14543627 | CFD |  | Cid\_16395956 | MAP2K4 |
|  | Cid\_14543627 | ELANE |  | Cid\_16395956 | MAPK13 |
|  | 14543627 | NTRK1 |  | Cid\_16395956 | MAP2K7 |
|  | 14543627 | CYP2C9 |  | Cid\_16395956 | MAPK12 |
|  | 14543627 | BRAF |  | Cid\_16395956 | CENPE |
|  | Cid\_168136 | CHRM2 |  | Cid\_23983701 | PRKAA1 |
|  | Cid\_168136 | TDO2 |  | Cid\_23983701 | DNASE1L3 |
|  | Cid\_168136 | ADH1A |  | Cid\_182174 | FPR1 |
|  | Cid\_168136 | CHRNA4 |  | Cid\_182174 | PSENEN |
|  | Cid\_168136 | ADH1C |  | Cid\_6992304 | TACR3 |
|  | Cid\_168136 | SLC5A7 |  | Cid\_6992304 | GHRL |
|  | Cid\_168136 | PABPC1 |  | Cid\_6992304 | MC3R |
|  | Cid\_168136 | MMP13 |  | Cid\_13306588 | UBE2I |
|  | Cid\_23815419 | CNR2 |  | Cid\_1942420 | NMT1 |
|  | Cid\_23815419 | PDE2A |  | Cid\_1942420 | SLC6A15 |
|  | Cid\_23815419 | KCNA3 |  | Cid\_7408192 | ADAM8 |
|  | Cid\_23815419 | IGF1R |  | Cid\_7408192 | SPSB2 |
|  | Cid\_23815419 | KCNK3 |  | Cid\_880925 | CDC42 |
|  | Cid\_23815419 | GPR88 |  | Cid\_112477320 | HTR3B |
|  | Cid\_23815419 | AKR1C3 |  | Cid\_112477320 | USP14 |
|  | Cid\_23815419 | HRH1 |  | Cid\_124039 | GABRA6 |
|  | Cid\_23815419 | BDKRB1 |  | Cid\_124039 | CTSF |
|  | Cid\_23815419 | SCN9A |  | Cid\_114703 | MAPKAPK5 |
|  | Cid\_23815419 | MAP3K5 |  | Cid\_114703 | NDUFA4 |
|  | Cid\_23815419 | SORD |  | Cid\_114703 | NUAK1 |
|  | Cid\_23815419 | ADRA1B |  | Cid\_114703 | GUSB |
|  | Cid\_23815419 | CASP1 |  | Cid\_352039 | GPR142 |
|  | Cid\_23815419 | CAPN1 |  | Cid\_22824556 | GRB2 |
|  | Cid\_23815419 | BRD3 |  | Cid\_22824556 | GCLC |
|  | Cid\_23815419 | CRHR1 |  | Cid\_60208893 | DNTT |
|  | Cid\_23815419 | OPRL1 |  | Cid\_791978 | PKMYT1 |
|  | Cid\_23815419 | CASP8 |  | Cid\_2877 | MC5R |
|  | Cid\_23815419 | MERTK |  | Cid\_2877 | CCND2 |
|  | Cid\_23815419 | PRKD1 |  | Cid\_2877 | KHK |
|  | Cid\_23815419 | EIF2AK3 |  | Cid\_124433152 | PRMT5 |
|  | Cid\_23815419 | AGTR1 |  | Cid\_124433152 | NNMT |
|  | Cid\_23815419 | CDK9 |  | Cid\_75368727 | WNT3A |
|  | Cid\_23815419 | SMYD2 |  | Cid\_75368727 | LDLR |
|  | Cid\_23815419 | F2R |  | Cid\_75368727 | CCND1 |
|  | Cid\_23815419 | ALOX5AP |  | Cid\_75368727 | KCNJ6 |
|  | Cid\_23815419 | P2RX3 |  | Cid\_75368727 | CACNA1I |
|  | Cid\_23815419 | SMO |  | Cid\_5326566 | NGF |
|  | Cid\_5318267 | AKR1B1 |  | Cid\_100622832 | MAP2K2 |
|  | Cid\_5280448 | ABCC1 |  | Cid\_100622832 | SCARB1 |
|  | Cid\_5280448 | CYP1B1 |  | Cid\_100622832 | MLNR |
|  | Cid\_5280448 | DUSP3 |  | Cid\_100622832 | PIK3R1 |
|  | Cid\_5280448 | PLAT |  | Cid\_100622832 | MAP3K1 |
|  | Cid\_5280448 | F10 |  | Cid\_3156809 | MAK |
|  | Cid\_5280448 | PLAU |  | Cid\_3156809 | CDKL5 |
|  | Cid\_92281781 | TRPV3 |  | Cid\_3156809 | CDKL3 |
|  | Cid\_92281781 | PTK2B |  | Cid\_3156809 | PIK3C2G |
|  | Cid\_92281781 | GSK3A |  | Cid\_3156809 | MAP3K6 |
|  | Cid\_92281781 | OPRD1 |  | Cid\_3156809 | CDK13 |
|  | Cid\_92281781 | OPRK1 |  | Cid\_3156809 | CASK |
|  | Cid\_92281781 | PTAFR |  | Cid\_3156809 | PIP5K1C |
|  | Cid\_7971 | DBH |  | Cid\_3156809 | DSTYK |
|  | Cid\_7971 | HDAC6 |  | Cid\_3156809 | PRKAA2 |
|  | Cid\_7971 | HDAC8 |  | Cid\_3156809 | MAP2K6 |
|  | Cid\_11007871 | DNM1 |  | Cid\_3156809 | BLK |
|  | Cid\_11007871 | NAAA |  | Cid\_6175 | GRK1 |
|  | Cid\_11007871 | SLC22A2 |  | Cid\_6029 | P2RY6 |
|  | Cid\_11007871 | SLC47A1 |  | Cid\_6029 | OGT |
|  | Cid\_11007871 | GRIN1 |  | Cid\_6029 | HEXA |
|  | Cid\_11007871 | GRIN2A |  | Cid\_6029 | HEXB |
|  | Cid\_11007871 | GRIN1 |  | Cid\_6029 | P2RY4 |
|  | Cid\_11007871 | NISCH |  | Cid\_6029 | P2RY2 |
|  | Cid\_138440 | HDAC3 |  | Cid\_45359306 | UBLCP1 |
|  | Cid\_138440 | SLC22A6 |  | Cid\_45359306 | P2RY12 |
|  | Cid\_138440 | FABP2 |  | Cid\_45359306 | PTGIS |
|  | Cid\_138440 | NR1H4 |  | Cid\_45359306 | PTPA |
|  | Cid\_138440 | VDR |  | Cid\_5226097 | NPFFR1 |
|  | Cid\_138440 | SLC6A12 |  | Cid\_5226097 | NPFFR2 |
|  | Cid\_138440 | KDM5C |  | Cid\_5226097 | MLX |
|  | Cid\_138440 | RNPEP |  | Cid\_5226097 | BRCA1 |
|  | Cid\_138440 | UGT2B7 |  | Cid\_45783154 | LPAR6 |
|  | Cid\_445144 | GPR17 |  | Cid\_45783154 | LPAR2 |
|  | Cid\_445144 | FBP1 |  | Cid\_45783154 | LPAR4 |
|  | Cid\_445144 | KCNN4 |  | Cid\_56991460 | PDE8B |
|  | Cid\_445144 | CACNA2D1 |  | Cid\_56991460 | ITGA2 |
|  | Cid\_445144 | SLC7A11 |  | Cid\_11988273 | LANCL2 |
|  | Cid\_445144 | KDM4E |  | Cid\_11988273 | RAP1A |
|  | Cid\_445144 | KDM3A |  | Cid\_11128 | GGH |
|  | Cid\_445144 | FTO |  | Cid\_11128 | LIG1 |
|  | Cid\_445144 | KDM4A |  | Cid\_90659885 | SLC25A20 |
|  | Cid\_273 | ODC1 |  | Cid\_36606 | PLCG2 |
|  | Cid\_821478 | GLS |  | Cid\_36606 | BCL2A1 |
|  | Cid\_821478 | GRM4 |  | Cid\_36606 | CAMK2A |
|  | Cid\_821478 | ERBB2 |  | Cid\_12149038 | CHRNA5 |
|  | Cid\_821478 | GABRA1 |  | Cid\_92946 | CHRND |
|  | Cid\_821478 | GABRA5 |  | Cid\_92946 | SLC1A3 |
|  | Cid\_676060 | CHRNA4 |  | Cid\_715840 | IKBKG |
|  | Cid\_676060 | XIAP |  | Cid\_715840 | GCKR |
|  | Cid\_676060 | GSTA1 |  | Cid\_715840 | CSNK1G2 |
|  | Cid\_676060 | DCTPP1 |  | Cid\_715840 | CSNK1G3 |
|  | Cid\_676060 | CSF1R |  | Cid\_715840 | MAP3K19 |
|  | Cid\_676060 | CASP4 |  | Cid\_715840 | GPR183 |
|  | Cid\_676060 | CASP9 |  | Cid\_7408195 | NPY4R |
|  | Cid\_676060 | CASP6 |  | Cid\_7408195 | PRLR |
|  | Cid\_676060 | BACE2 |  | Cid\_7408195 | DPEP1 |
|  | Cid\_676060 | MAPK8 |  | Cid\_24096399 | ITGA2 |
|  | Cid\_676060 | CACNA1C |  | Cid\_24096399 | ITGAV |
|  | Cid\_676060 | KLKB1 |  | Cid\_22297431 | ADCY10 |
|  | Cid\_676060 | KAT2B |  | Cid\_22297431 | GPER1 |
|  | Cid\_676060 | CDK2 |  | Cid\_22297431 | GPR18 |
|  | Cid\_676060 | PRTN3 |  | Cid\_25320858 | GIPR |
|  | Cid\_676060 | AOC1 |  | Cid\_25320858 | GLP1R |
|  | Cid\_676060 | PIM3 |  | Cid\_25320858 | LIPC |
|  | Cid\_676060 | TNNC1 |  | Cid\_25320858 | PLA2G4B |
|  | Cid\_676060 | MGLL |  | Cid\_97143 | ST6GAL1 |
|  | Cid\_676060 | TGFB1 |  | Cid\_97143 | MAPT |
|  | Cid\_676060 | NOS3 |  | Cid\_97143 | CAMK2B |
|  | Cid\_676060 | PLAA |  | Cid\_97143 | DAPK1 |
|  | Cid\_676060 | EPAS1 |  | Cid\_97143 | PIK3R1 |
|  | Cid\_676060 | AURKB |  | Cid\_97143 | MPG |
|  | Cid\_676060 | CDC25C |  | Cid\_14606540 | NAE1 |
|  | Cid\_676060 | RPS6KA3 |  | Cid\_14606540 | PKN1 |
|  | Cid\_676060 | NOD1 |  | Cid\_915425 | NEK1 |
|  | Cid\_676060 | NOD2 |  | Cid\_480860 | TAOK1 |
|  | Cid\_676060 | HSP90AA1 |  | Cid\_480860 | TAOK3 |
|  | Cid\_676060 | DYRK1B |  | Cid\_480860 | ME1 |
|  | Cid\_676060 | DAPK3 |  | Cid\_480860 | ACVR1 |
|  | Cid\_676060 | ASF1A |  | Cid\_1972117 | SLC33A1 |
|  | Cid\_676060 | SLC9A1 |  | Cid\_1972117 | RPS27 |
|  | Cid\_91734833 | CACNA1B |  | Cid\_1972117 | CDK7 |
|  | Cid\_91734833 | S1PR3 |  | Cid\_1972117 | CAMK2G |
|  | Cid\_91734833 | S1PR1 |  | Cid\_1972117 | STK10 |
|  | Cid\_91734833 | APLNR |  | Cid\_1972117 | SLK |
|  | Cid\_91734833 | PLA2G4A |  | Cid\_1972117 | CDK16 |
|  | Cid\_91734833 | TRPC6 |  | Cid\_1972117 | MAPK15 |
|  | Cid\_91734833 | TRPC3 |  | Cid\_1972117 | CDK18 |
|  | Cid\_91734833 | SLC6A7 |  | Cid\_1972117 | DMPK |
|  | Cid\_91734833 | SLC6A9 |  | Cid\_1972117 | MAP4K2 |
|  | Cid\_91734833 | CACNA1H |  | Cid\_1972117 | MAPK7 |
|  | Cid\_91734833 | CASR |  | Cid\_1972117 | CDK11A |
|  | Cid\_91734833 | BRS3 |  | Cid\_1972117 | CDK17 |
|  | Cid\_91734833 | FLT1 |  | Cid\_1972117 | CDK11B |
|  | Cid\_91734833 | GRM2 |  | Cid\_1972117 | CDK15 |
|  | Cid\_91734833 | HPGD |  | Cid\_1972117 | DCLK3 |
|  | Cid\_91734833 | PTPN22 |  | Cid\_1972117 | CDK14 |
|  | Cid\_91734833 | PANK3 |  | Cid\_1972117 | STK33 |
|  | Cid\_91734833 | GABRB3 |  | Cid\_23928030 | SAE1 |
|  | Cid\_91734833 | CACNA1D |  | Cid\_9839580 | SETD7 |
|  | Cid\_91734833 | CYP2C19 |  | Cid\_13965473 | IGFBP6 |
|  | Cid\_108312 | SHH |  | Cid\_13965473 | IGFBP4 |
|  | Cid\_108312 | S1PR5 |  | Cid\_13965473 | IGFBP5 |
|  | Cid\_108312 | S1PR4 |  | Cid\_13965473 | IGFBP2 |
|  | Cid\_108312 | PTGFR |  | Cid\_13965473 | IGFBP1 |
|  | Cid\_108312 | CPA3 |  | Cid\_71751823 | SLC28A3 |
|  | Cid\_108312 | CPB2 |  | Cid\_71751823 | SLC22A8 |
|  | Cid\_108312 | ADRA2B |  | Cid\_4272 | RCE1 |
|  | Cid\_108312 | TACR2 |  | Cid\_4272 | BCL2L2 |
|  | Cid\_108312 | RASGRP1 |  | Cid\_5283445 | GPR119 |
|  | Cid\_108312 | SLC13A5 |  | Cid\_5283445 | SLC8A1 |
|  | Cid\_22278 | ADH1B |  | Cid\_586372 | INSRR |
|  | Cid\_1201529 | FDFT1 |  | Cid\_586372 | ACVRL1 |
|  | Cid\_19374862 | AOC3 |  | Cid\_118796498 | KCNQ1 |
|  | Cid\_4250163 | HDAC1 |  | Cid\_118796498 | FKBP5 |
|  | Cid\_4250163 | NAMPT |  | Cid\_118796498 | PORCN |
|  | Cid\_4250163 | MCL1 |  | Cid\_118796498 | INCENP |
|  | Cid\_4250163 | CISD1 |  | Cid\_118796498 | ORAI1 |
|  | Cid\_4250163 | SOAT1 |  | Cid\_12599 | FHIT |
|  | Cid\_759667 | MALT1 |  | Cid\_12599 | QARS |
|  | Cid\_759667 | ICAM1 |  | Cid\_12599 | P2RY11 |
|  | Cid\_759667 | SELE |  | Cid\_12599 | RARS |
|  | Cid\_759667 | TGM2 |  | Cid\_12599 | DNPH1 |
|  | Cid\_759667 | KCNK2 |  | Cid\_12599 | P2RX1 |
|  | Cid\_759667 | TYMP |  | Cid\_12599 | PARG |
|  | Cid\_759667 | CCNB3 |  | Cid\_12599 | RNASEL |
|  | Cid\_759667 | TDP2 |  | Cid\_12599 | RNASE2 |
|  | Cid\_759667 | CCNC |  | Cid\_12599 | RNASE1 |
|  | Cid\_759667 | ASAH1 |  | Cid\_12599 | ENPP1 |
|  | Cid\_759667 | FLT4 |  | Cid\_12599 | ASNS |
|  | Cid\_759667 | VCAM1 |  | Cid\_12599 | EIF4E |
|  | Cid\_759667 | PLK4 |  | Cid\_12599 | DTYMK |
|  | Cid\_759667 | SCN10A |  | Cid\_12599 | FDPS |
|  | Cid\_759667 | ROCK1 |  | Cid\_12599 | TRPM2 |
|  | Cid\_759667 | FLT3 |  | Cid\_12599 | AMD1 |
|  | Cid\_759667 | KCNK9 |  | Cid\_12599 | SRM |
|  | Cid\_759667 | PARP10 |  | Cid\_44533020 | CCND3 |
|  | Cid\_759667 | PARP4 |  | Cid\_44533020 | PIK3C3 |
|  | Cid\_759667 | QPCT |  | Cid\_44533020 | MST1R |
|  | Cid\_759667 | PLK2 |  | Cid\_44533020 | TIE1 |
|  | Cid\_759667 | KDM4B |  | Cid\_44533020 | STAT6 |
|  | Cid\_759667 | HRH4 |  | Cid\_73399 | SOAT2 |
|  | Cid\_759667 | IDH1 |  | Cid\_45933916 | CNOT7 |
|  | Cid\_759667 | PRKACA |  | Cid\_45933916 | HPD |
|  | Cid\_759667 | CYP1A2 |  | Cid\_2369 | SPHK2 |
|  | Cid\_759667 | PRF1 |  | Cid\_2369 | NPY1R |
|  | Cid\_14079 | PTPRC |  | Cid\_29980616 | TP53 |
|  | Cid\_5311079 | GRIK1 |  | Cid\_29980616 | PTGES2 |
|  | Cid\_5311079 | SLC1A2 |  | Cid\_29980616 | HSD17B7 |
|  | Cid\_5311079 | GRM3 |  | Cid\_29980616 | DAGLA |
|  | Cid\_5311079 | GRM8 |  | Cid\_29980616 | ENPP2 |
|  | Cid\_5311079 | GRM1 |  | Cid\_29980616 | DAGLB |
|  | Cid\_5311079 | GRM6 |  | Cid\_7020001 | MAGI3 |
|  | Cid\_5311079 | GRIK2 |  | Cid\_7020001 | PSMB8 |
|  | Cid\_5311079 | SLC1A1 |  | Cid\_7020001 | PSMB9 |
|  | Cid\_5311079 | GRIK5 |  | Cid\_181526 | PPM1A |
|  | Cid\_5311079 | GRIA4 |  | Cid\_181526 | NEU4 |
|  | Cid\_5311079 | GRIK3 |  | Cid\_54680116 | PSMG3 |
|  | Cid\_5311079 | GRIA2 |  | Cid\_21721881 | KLK2 |
|  | Cid\_5311079 | ENPEP |  | Cid\_21721881 | PGD |
|  | Cid\_5311079 | GRM7 |  | Cid\_21721881 | ST3GAL3 |
|  | Cid\_5311079 | PLG |  | Cid\_21721881 | FUT4 |
|  | Cid\_439227 | ITGA2B |  | Cid\_21721881 | STAT1 |
|  | Cid\_439227 | PLA2G2A |  | Cid\_21721881 | MT-ND4 |
|  | Cid\_439227 | PLA2G5 |  | Cid\_443955 | FCGR1A |
|  | Cid\_439227 | OAT |  | Cid\_443955 | NMBR |
|  | Cid\_439227 | LAP3 |  | Cid\_94701 | MAP3K9 |
|  | Cid\_439227 | SLC18A3 |  | Cid\_135398570 | RAC1 |
|  | Cid\_439227 | NOS1 |  | Cid\_3105 | TNK2 |
|  | Cid\_439227 | GABBR2 |  | Cid\_3105 | DLK1 |
|  | Cid\_774 | HRH2 |  | Cid\_3105 | PBRM1 |
|  | Cid\_774 | HRH3 |  | Cid\_3105 | BRDT |
|  | Cid\_774 | CHRNA7 |  | Cid\_3105 | BRD7 |
|  | Cid\_53394341 | ARG1 |  | Cid\_3105 | TAF1 |
|  | Cid\_132862 | SLC15A1 |  | Cid\_3105 | BRD8 |
|  | Cid\_132862 | DDAH1 |  | Cid\_3105 | CD74 |
|  | Cid\_132862 | ANPEP |  | Cid\_3105 | SCN1A |
|  | Cid\_132862 | PTPRA |  | Cid\_8944 | MCHR2 |
|  | Cid\_132862 | CPN1 |  | Cid\_8944 | ABHD6 |
|  | Cid\_2060575 | CYP2D6 |  | Cid\_8944 | ARHGDIA |
|  | Cid\_2060575 | DPP4 |  | Cid\_8944 | PGGT1B |
|  | Cid\_2060575 | RCOR1 |  | Cid\_8944 | CHIA |
|  | Cid\_6285057 | AHR |  | Cid\_8944 | MGAT2 |
|  | Cid\_6285057 | HLCS |  | Cid\_24739240 | PRKAG1 |
|  | Cid\_761523 | CDK7 |  | Cid\_119058050 | PRLHR |
|  | Cid\_761523 | GABRB3 |  | Cid\_119058050 | MGAT3 |
|  | Cid\_761523 | GABRA2 |  | Cid\_1547484 | ACACA |
|  | Cid\_761523 | CDK1 |  | Cid\_1547484 | OGFRL1 |
|  | Cid\_761523 | SCN2A |  | Cid\_102591297 | ACVR1B |
|  | Cid\_761523 | CCR4 |  | Cid\_64981 | SMARCA2 |
|  | Cid\_761523 | PIP4K2C |  | Cid\_64981 | PITRM1 |
|  | Cid\_761523 | P2RY1 |  | Cid\_64981 | NOX1 |
|  | Cid\_761523 | DHFR |  | Cid\_9842892 | SETD2 |
|  | Cid\_15730832 | LTB4R |  | Cid\_9842892 | LGALS7 |
|  | Cid\_15730832 | IMPDH1 |  | Cid\_10475115 | SLC6A5 |
|  | Cid\_15730832 | KDM7A |  | Cid\_145454234 | NPR1 |
|  | Cid\_15730832 | THRA |  | Cid\_145454234 | NPR3 |
|  | Cid\_15730832 | THRB |  | Cid\_110208996 | MAP3K11 |
|  | Cid\_15730832 | PDE5A |  | Cid\_4485701 | BRD1 |
|  | Cid\_15730832 | TBXA2R |  | Cid\_4485701 | ATAD2B |
|  | Cid\_15730832 | PDE6D |  | Cid\_4485701 | TAF1L |
|  | Cid\_15730832 | RARG |  | Cid\_4485701 | BRPF3 |
|  | Cid\_15730832 | RARA |  | Cid\_4485701 | EIF2AK1 |
|  | Cid\_15730832 | PTPN7 |  | Cid\_56773937 | GABRA4 |
|  | Cid\_15730832 | GRK6 |  | Cid\_56773937 | GABRA3 |
|  | Cid\_15730832 | AMPD1 |  | Cid\_56773937 | GABRA2 |
|  | Cid\_15730832 | SERPINE1 |  | Cid\_56773937 | ALKBH3 |
|  | Cid\_15730832 | FOLH1 |  | Cid\_56773937 | PAK1 |
|  | Cid\_15730832 | BMP1 |  | Cid\_99719309 | DDOST |
|  | Cid\_338 | LDHB |  | Cid\_99719309 | KLK3 |
|  | Cid\_338 | AKR1C1 |  | Cid\_99719309 | TRIM24 |
|  | Cid\_338 | FUT7 |  | Cid\_23874473 | CD22 |
|  | Cid\_338 | ALB |  | Cid\_442813 | MGMT |
|  | Cid\_4177311 | CHUK |  | Cid\_71317118 | ABHD12 |
|  | Cid\_4177311 | PIK3CD |  | Cid\_71317118 | ABHD16A |
|  | Cid\_4177311 | RPS6KB1 |  | Cid\_8768 | DUSP1 |
|  | Cid\_4177311 | BCL2 |  | Cid\_519541 | RNASEH1 |
|  | Cid\_4177311 | CCNT1 |  | Cid\_45783053 | EIF4H |
|  | Cid\_4177311 | BRPF1 |  | Cid\_12227668 | MDH2 |
|  | Cid\_4177311 | GCK |  | Cid\_1670 | PCNA |
|  | Cid\_4177311 | GYS1 |  | Cid\_268297 | PIN4 |
|  | Cid\_4177311 | LIMK1 |  | Cid\_2826719 | KAT5 |
|  | Cid\_4177311 | PRKCZ |  | Cid\_2826719 | ELAVL1 |
|  | Cid\_4177311 | STAT3 |  | Cid\_6420119 | DUSP22 |
|  | Cid\_4177311 | HSP90B1 |  | Cid\_6420119 | HIPK3 |
|  | Cid\_4177311 | KCNN3 |  | Cid\_6420119 | UCHL1 |
|  | Cid\_4177311 | ERBB4 |  | Cid\_16095194 | CCR6 |
|  | Cid\_4177311 | PARP2 |  | Cid\_16095194 | ATP6AP1 |
|  | Cid\_4177311 | SCN5A |  | Cid\_4524287 | HAGH |
|  | Cid\_4177311 | BDKRB2 |  | Cid\_667639 | YWHAG |
|  | Cid\_4177311 | TRAP1 |  | Cid\_667639 | HSD17B14 |
|  | Cid\_4177311 | ATR |  | Cid\_11960529 | PRKX |
|  | Cid\_938 | HCAR2 |  | Cid\_40634 | PHLPP1 |
|  | Cid\_938 | DDO |  | Cid\_23983705 | GALK1 |
|  | Cid\_938 | SIRT3 |  | Cid\_5380645 | BIRC5 |
|  | Cid\_419490 | AHCY |  | Cid\_259632 | MMP25 |
|  | Cid\_4472712 | REN |  | Cid\_259632 | ADAM10 |
|  | Cid\_4472712 | HLA-A |  | Cid\_888706 | RPA1 |
|  | Cid\_4472712 | GNPAT |  | Cid\_888706 | EPRS |
|  | Cid\_4472712 | DNPEP |  | Cid\_888706 | CAMKK1 |
|  | Cid\_4472712 | FPR2 |  | Cid\_440043 | ITPR3 |
|  | Cid\_4472712 | PGC |  | Cid\_440043 | ITPR1 |
|  | Cid\_4472712 | EGLN3 |  | Cid\_440043 | INPP5A |
|  | Cid\_4472712 | SIRT1 |  | Cid\_2872935 | GANAB |
|  | Cid\_4472712 | PLA2G2C |  | Cid\_5281707 | FGR |
|  | Cid\_4472712 | PLA2G10 |  | Cid\_16376440 | CCNE1 |
|  | Cid\_4472712 | UGCG |  | Cid\_92503 | ALOX15B |
|  | Cid\_4472712 | GBA |  | Cid\_10639 | EIF2AK2 |
|  | Cid\_4472712 | GBA2 |  | Cid\_51136263 | PTPN9 |
|  | Cid\_4472712 | PGA5 |  | Cid\_5976625 | MPL |
|  | Cid\_4472712 | SAE1 |  | Cid\_42905 | PAK4 |
|  | Cid\_4472712 | CTSE |  | Cid\_42905 | LPL |
|  | Cid\_4472712 | ADAM9 |  | Cid\_139292107 | MAG |
|  | Cid\_199 | PAOX |  | Cid\_38361084 | PLCG1 |
|  | Cid\_18687359 | S100B |  | Cid\_38361084 | BMX |
|  | Cid\_18687359 | PRCP |  | Cid\_38361084 | COQ8B |
|  | Cid\_18687359 | PNMT |  | Cid\_5329099 | DUSP26 |
|  | Cid\_91746260 | KMT2A |  | Cid\_5283007 | SCP2 |
|  | Cid\_91746260 | DOT1L |  | Cid\_5283007 | GCG |
|  | Cid\_91746260 | SUV39H1 |  | Cid\_5283007 | KEAP1 |
|  | Cid\_91746260 | DNMT1 |  | Cid\_5986673 | PHKG2 |
|  | Cid\_91746260 | INMT |  | Cid\_94870 | ADH5 |
|  | Cid\_91746260 | EZH2 |  | Cid\_45782803 | PADI1 |
|  | Cid\_91746260 | EZH1 |  | Cid\_45782803 | PADI2 |
|  | Cid\_91746260 | SETDB1 |  | Cid\_45782803 | PADI3 |
|  | Cid\_91746260 | CARM1 |  | Cid\_45782803 | PADI4 |
|  | Cid\_91746260 | PRMT1 |  | Cid\_13966127 | GABRA1 |
|  | Cid\_91746260 | EHMT1 |  | Cid\_21588208 | PIK3C2B |
|  | Cid\_91746260 | EHMT2 |  | Cid\_21588208 | POLK |
|  | Cid\_91746260 | DNMT3B |  | Cid\_75411900 | STAT5A |
|  | Cid\_439600 | ABAT |  | Cid\_129009008 | ABCB11 |
|  | Cid\_119507 | MMP12 |  | Cid\_129009008 | ENGASE |
|  | Cid\_119507 | HDAC7 |  | Cid\_439211 | B4GALT1 |
|  | Cid\_119507 | NAALAD2 |  | Cid\_439211 | P2RY14 |
|  | Cid\_119507 | HTR3A |  | Cid\_3548445 | JAK1 |
|  | Cid\_119507 | CXCR4 |  | Cid\_10111831 | GRIN2D |
|  | Cid\_119507 | ILK |  | Cid\_135403648 | MTHFD2 |
|  | Cid\_72503 | ADH4 |  | Cid\_135403648 | FPGS |
|  | Cid\_72503 | ALDH1A1 |  | Cid\_135403648 | MTR |
|  | Cid\_72503 | CCND1 |  | Cid\_75368782 | FARS2 |
|  | Cid\_16724 | METAP1 |  | Cid\_75368782 | KLK5 |
|  | Cid\_10976240 | GABBR1 |  | Cid\_75368782 | PPOX |
|  | Cid\_10976240 | HAO1 |  | Cid\_24826799 | DDR2 |
|  | Cid\_16395991 | SQLE |  | Cid\_24826799 | DDR1 |
|  | Cid\_16395991 | NR1H2 |  | Cid\_24826799 | PIK3C2A |
|  | Cid\_16395991 | GCGR |  | Cid\_24826799 | SFRP1 |
|  | Cid\_16395991 | POLA1 |  | Cid\_16395819 | CCL2 |
|  | Cid\_135398638 | GDA |  | Cid\_2601 | SCD5 |
|  | Cid\_135398638 | PNP |  | Cid\_5281727 | PRKACB |
|  | Cid\_454892 | PDGFRA |  | Cid\_5281727 | FRK |
|  | Cid\_454892 | PDE3A |  | Cid\_5281727 | STK36 |
|  | Cid\_454892 | PDE3B |  | Cid\_5281727 | GAK |
|  | Cid\_454892 | BAZ2B |  | Cid\_5281727 | TNIK |
|  | Cid\_454892 | PGK1 |  | Cid\_5281727 | RPS6KA6 |
|  | Cid\_454892 | CECR2 |  | Cid\_5281727 | CDC42BPB |
|  | Cid\_454892 | BAZ2A |  | Cid\_5281727 | NLK |
|  | Cid\_454892 | TGFBR1 |  | Cid\_5281727 | ACVR2B |
|  | Cid\_454892 | BTK |  | Cid\_5281727 | CSNK1A1L |
|  | Cid\_454892 | PPIA |  | Cid\_5281727 | CIT |
|  | Cid\_454892 | KIF20A |  | Cid\_5281727 | CDC42BPG |
|  | Cid\_454892 | ZAP70 |  | Cid\_5281727 | LATS2 |
|  | Cid\_454892 | NPBWR1 |  | Cid\_5281727 | STK32B |
|  | Cid\_454892 | PI4KB |  | Cid\_44525694 | GRK5 |
|  | Cid\_454892 | CLK4 |  | Cid\_371682 | CCNA2 |
|  | Cid\_454892 | CLK2 |  | Cid\_371682 | SHC1 |
|  | Cid\_1533806 | MB |  | Cid\_371682 | DDX3X |
|  | Cid\_1533806 | KCNMA1 |  | Cid\_371682 | PLAUR |
|  | Cid\_1533806 | HDAC5 |  | Cid\_371682 | SLC8B1 |
|  | Cid\_1533806 | HDAC4 |  | Cid\_371682 | SMS |
|  | Cid\_1533806 | EEF2K |  | Cid\_371682 | PRMT7 |
|  | Cid\_1533806 | NAT1 |  | Cid\_371682 | NR4A2 |
|  | Cid\_1533806 | PLA2G7 |  | Cid\_371682 | MMP15 |
|  | Cid\_1533806 | PRKAB1 |  | Cid\_371682 | MMP26 |
|  | Cid\_1533806 | PRKD2 |  | Cid\_371682 | PDE6A |
|  | Cid\_5374527 | GLI2 |  | Cid\_371682 | CD274 |
|  | Cid\_5374527 | GLI1 |  | Cid\_371682 | CAMK1 |
|  | Cid\_525811 | MCHR1 |  | Cid\_371682 | CAMK4 |
|  | Cid\_525811 | TTK |  | Cid\_371682 | DKK1 |
|  | Cid\_525811 | NCOR1 |  | Cid\_371682 | ASIC3 |
|  | Cid\_525811 | ACACB |  | Cid\_371682 | RORB |
|  | Cid\_525811 | CD38 |  | Cid\_371682 | RPS6KA4 |
|  | Cid\_525811 | PDK1 |  | Cid\_371682 | MAPK6 |
|  | Cid\_525811 | CXCR3 |  | Cid\_371682 | MYLK4 |
|  | Cid\_525811 | PROC |  | Cid\_371682 | GABRA6 |
|  | Cid\_525811 | MELK |  | Cid\_371682 | PTPRCAP |
|  | Cid\_525811 | MPEG1 |  | Cid\_371682 | GPR34 |
|  | Cid\_525811 | SLC2A3 |  | Cid\_371682 | P2RY10 |
|  | Cid\_525811 | SLC2A2 |  | Cid\_371682 | GPR174 |
|  | Cid\_525811 | CCKBR |  | Cid-11471482 | CPM |
|  | Cid\_135591005 | TPO | - | - | - |

**Table S5│ The common targets of diseases**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Target | No. | Target | No. | Target | No. | Target |
|  | MSH6 |  | VARS1 |  | TRE-TTC3-1 |  | CLDN4 |
|  | MSH2 |  | EIF2B4 |  | FBP1 |  | POSTN |
|  | MLH1 |  | LARS1 |  | TRIM21 |  | ETS1 |
|  | APC |  | MT-TP |  | ROCR |  | BIRC2 |
|  | TP53 |  | USP20 |  | LTF |  | LRP6 |
|  | PALB2 |  | SYVN1 |  | TRAP1 |  | LINC02605 |
|  | POLD1 |  | MT-ND5 |  | ADGRE5 |  | TMEFF2 |
|  | CDH1 |  | LSM12 |  | TNFSF13 |  | WNT2 |
|  | MUTYH |  | LIMK2 |  | HLA-DRA |  | MIF |
|  | PTEN |  | SETD1B |  | RPL18 |  | CLDN1 |
|  | KRAS |  | USP19 |  | RAD21 |  | STAT6 |
|  | EGFR |  | BCL2L14 |  | CBFA2T3 |  | AMACR |
|  | BRAF |  | VNN1 |  | TUBA1A |  | RUNX2 |
|  | SMAD4 |  | PCK2 |  | PDCD6 |  | LZTS1 |
|  | CTNNB1 |  | SEC22B |  | FOXP1 |  | H2AX |
|  | CDKN2A |  | ZBTB33 |  | APBA1 |  | AGER |
|  | H19 |  | MAFK |  | ELOB |  | SERPINA1 |
|  | CCND1 |  | SEC16A |  | USP1 |  | CXCR2 |
|  | MIR21 |  | CTSG |  | RTEL1-TNFRSF6B |  | TJP1 |
|  | FGFR3 |  | NOL6 |  | ATOH1 |  | TXN |
|  | DICER1 |  | AAMP |  | KRT9 |  | FOXE1 |
|  | FGFR2 |  | ASH2L |  | IKZF3 |  | LGR5 |
|  | MRE11 |  | LINC01475 |  | TUBB2A |  | IL11 |
|  | TGFBR2 |  | PDK3 |  | ZFP36 |  | MIR17HG |
|  | TERT |  | GAP43 |  | MRTFA |  | MIR449A |
|  | CCAT1 |  | DDX24 |  | SOCS2 |  | IL4R |
|  | GAS5 |  | RHBDD1 |  | COPS6 |  | TIAM1 |
|  | MYC |  | GPANK1 |  | TNFSF15 |  | SPHK1 |
|  | CDK4 |  | NLRP6 |  | MIR655 |  | CSNK1A1 |
|  | XIST |  | MIR1226 |  | AICDA |  | NOD2 |
|  | EP300 |  | PSMD3 |  | CDC37 |  | S100A9 |
|  | FBXW7 |  | RAE1 |  | GRWD1 |  | MYB |
|  | BAX |  | MIR523 |  | DHX9 |  | EPO |
|  | MIR31 |  | IMPA2 |  | CPSF6 |  | ADAM17 |
|  | BAP1 |  | CDH23 |  | CUL4B |  | LAMC2 |
|  | CDKN1B |  | DNAJB6 |  | TFAM |  | CEACAM6 |
|  | MIR34A |  | MIR4728 |  | UGDH |  | SLC19A1 |
|  | MIR155 |  | UTS2 |  | SRSF1 |  | TNFRSF1B |
|  | DCC |  | STMN3 |  | IL23R |  | HNF4A |
|  | LINC-ROR |  | PHKA2 |  | IL13RA1 |  | WEE1 |
|  | PPARG |  | LUC7L |  | ITGA4 |  | SOD2-OT1 |
|  | MIR20A |  | NUDT21 |  | MACF1 |  | CDX1 |
|  | MIR34C |  | PSMA3 |  | SIRT6 |  | MAPK9 |
|  | NFE2L2 |  | USP12 |  | GSK3A |  | MIR133A1 |
|  | MIR29A |  | NDUFA4 |  | IRF8 |  | NTN1 |
|  | MIR18A |  | DDOST |  | TUBB6 |  | CCL20 |
|  | KCNQ1OT1 |  | NOC4L |  | DDX17 |  | HSP90B1 |
|  | STAT3 |  | NCF4 |  | PARK7 |  | IL13 |
|  | MIR223 |  | GALK1 |  | ATF6 |  | MCM7 |
|  | MTOR |  | VBP1 |  | PITX1 |  | CASP1 |
|  | VEGFA |  | IL17RD |  | SLX1A-SULT1A3 |  | DVL1 |
|  | PIK3R1 |  | MIR1260B |  | IL21 |  | CXCR1 |
|  | SMAD7 |  | WDR62 |  | MTSS1 |  | AHR |
|  | MIR100 |  | IL10RB |  | CXCL2 |  | ICOSLG |
|  | MIR215 |  | PRTN3 |  | HUWE1 |  | CTBP1 |
|  | MDM2 |  | ZGPAT |  | MUS81 |  | SUZ12 |
|  | MIR320A |  | WDR20 |  | SDC2 |  | S100A8 |
|  | PTGS2 |  | IL1R2 |  | TACR1 |  | TMPRSS2 |
|  | RHOA |  | DAP |  | NLRP1 |  | ALOX15 |
|  | MIR19A |  | PLXDC2 |  | ABL2 |  | SDC1 |
|  | MIR214 |  | PPP6R1 |  | RPL13 |  | SFTA3 |
|  | JUN |  | ZFP90 |  | CAPZB |  | HMGA2 |
|  | BCL2 |  | C1QTNF4 |  | ABCF2 |  | HIC1 |
|  | IDH1 |  | ALDH18A1 |  | TUBA1C |  | SYNE1 |
|  | MIR146B |  | CBLL1 |  | ST6GALNAC1 |  | GJA1 |
|  | MIR15B |  | CARD9 |  | CAMK2G |  | MIR551A |
|  | TLR2 |  | MIR3615 |  | NUBPL |  | MPO |
|  | HIF1A |  | ATP5MF |  | RBM39 |  | CHI3L1 |
|  | CDKN1A |  | MTCH2 |  | LMTK3 |  | HLA-DRB1 |
|  | FAS |  | PAPSS2 |  | PRG2 |  | CLDN3 |
|  | IL6 |  | RBM28 |  | KPNB1 |  | CDCP1 |
|  | IL2 |  | SLC26A3 |  | BCAM |  | NOTCH2 |
|  | MIRLET7C |  | PI4KB |  | FBXW11 |  | TNFRSF6B |
|  | MMP9 |  | RNASE3 |  | USP9X |  | CSE1L |
|  | TNF |  | PSMA6 |  | CRHR1 |  | HDAC3 |
|  | PTPN11 |  | GJA9-MYCBP |  | GOT1 |  | CSNK2A2 |
|  | MMP2 |  | WDTC1 |  | USP10 |  | CDC25A |
|  | KDR |  | PGAP6 |  | SIRT5 |  | PIK3R3 |
|  | ERBB4 |  | PSD |  | NAV2 |  | LRP5 |
|  | IL1B |  | MIR938 |  | DAPK3 |  | DCN |
|  | MIR149 |  | RIMS1 |  | PITX1-AS1 |  | TLR5 |
|  | RECQL4 |  | IRAK3 |  | FMR1 |  | IDO1 |
|  | MUC2 |  | MLXIP |  | CLSPN |  | HLA-DQB1 |
|  | BIRC5 |  | RGS10 |  | SNTB2 |  | TAGLN |
|  | CDK2 |  | ZBTB18 |  | IRF5 |  | NDRG2 |
|  | CD274 |  | PANK2 |  | PFKFB3 |  | TRIM28 |
|  | MGMT |  | CCNY |  | DDX18 |  | HIPK2 |
|  | CASP3 |  | NFKBIZ |  | MFF |  | EWSR1 |
|  | VDR |  | BVES |  | STAU1 |  | IGF2BP1 |
|  | MUC6 |  | RCL1 |  | HSD17B10 |  | SELENOP |
|  | NOTCH1 |  | SIGIRR |  | SCRN1 |  | VCL |
|  | CXCL8 |  | YBX2 |  | GSDMB |  | ACVR2A |
|  | MUC1 |  | TNPO3 |  | NOP58 |  | HSPG2 |
|  | MIR26B |  | STARD7 |  | TUFM |  | RACK1 |
|  | ABL1 |  | PARP12 |  | FFAR4 |  | NR1H2 |
|  | YAP1 |  | REEP1 |  | CBX1 |  | CASP5 |
|  | SMAD3 |  | HECTD1 |  | AP2A1 |  | ACLY |
|  | CD44 |  | ARMC10 |  | SERPINC1 |  | IL22 |
|  | NFKB1 |  | RBM47 |  | GPR35 |  | TRAF6 |
|  | MIR98 |  | SLC9A8 |  | RBBP5 |  | PRMT1 |
|  | CXCR4 |  | KDM4D |  | HAMP |  | PYCARD |
|  | TCF7L2 |  | ZNF280C |  | CRH |  | MAD2L1 |
|  | MIR193A |  | FHIP2B |  | MYCBP2 |  | PGR-AS1 |
|  | SMAD2 |  | INPP5E |  | MUC13 |  | DDX5 |
|  | BCL2L1 |  | APEH |  | WDR54 |  | NFKB2 |
|  | MIR16-1 |  | GPR12 |  | CDC23 |  | NR1H4 |
|  | IFNG |  | EXOC3-AS1 |  | ACTR2 |  | EPHB3 |
|  | RAC1 |  | MIR3150A |  | PAICS |  | CLDN18 |
|  | CDX2 |  | EXOC3 |  | PPP2CB |  | FCGR2A |
|  | TLR4 |  | RNF186 |  | RGN |  | COPS5 |
|  | IL10 |  | INAVA |  | ST7 |  | EDNRA |
|  | IL1RN |  | FFAR2 |  | CDCA8 |  | SPINT1 |
|  | JAK2 |  | CLEC4D |  | PTPN2 |  | EEF1A1 |
|  | MIR193B |  | BSN |  | KNTC1 |  | RBX1 |
|  | MAPK3 |  | HLA-DRB9 |  | DARS1 |  | TFPI2 |
|  | TCF7 |  | COG6 |  | HADHA |  | FOXP2 |
|  | IDH2 |  | IAH1 |  | CLK2 |  | RNU6-1 |
|  | KRT20 |  | PLA2G2A |  | FPR1 |  | KMT2A |
|  | STAT1 |  | EPHB2 |  | NRBP1 |  | F2RL1 |
|  | E2F1 |  | NRAS |  | PSME3 |  | SKP1 |
|  | MIR7-3HG |  | FASLG |  | TARS1 |  | KHDRBS1 |
|  | TNFSF10 |  | BLACAT1 |  | MMS19 |  | MIR1-2 |
|  | CASP9 |  | FH |  | PSMA2 |  | FOLR1 |
|  | MIR181B1 |  | BUB1 |  | TMPRSS6 |  | EIF4A1 |
|  | SNAI1 |  | CASP10 |  | NEIL2 |  | MCM3 |
|  | PHB1 |  | CASP8 |  | DPM1 |  | HLA-DQA1 |
|  | MIR429 |  | BARD1 |  | ILF2 |  | SATB2 |
|  | ALDH2 |  | ATR |  | UBAP2 |  | MIR506 |
|  | RUNX3 |  | PIK3CA |  | FKBP4 |  | FBXO11 |
|  | MUC5AC |  | ADH1B |  | ASAH1 |  | MDK |
|  | LINC01672 |  | MCC |  | SIAH2 |  | WNT4 |
|  | SETD2 |  | IRF1 |  | COPA |  | PDGFA |
|  | KRT7 |  | HMMR |  | CAPZA2 |  | IL1R1 |
|  | MAPK8 |  | FGFR4 |  | CRTC1 |  | NTSR1 |
|  | PROM1 |  | SASH1 |  | NFATC3 |  | HCCAT5 |
|  | RMRP |  | ESR1 |  | ELK4 |  | MMP10 |
|  | TGFA |  | PRKN |  | PIM3 |  | CUL4A |
|  | PLK1 |  | CAHM |  | EIF5B |  | TNFRSF9 |
|  | FGF2 |  | PMS2 |  | IARS1 |  | SGPL1 |
|  | MIR124-3 |  | PTPN12 |  | TNFSF8 |  | DEK |
|  | MIR301A |  | DLC1 |  | DDX39A |  | CX3CR1 |
|  | PKM |  | PDGFRL |  | ADSL |  | ANG |
|  | NOS2 |  | RAD54B |  | FKBP8 |  | BRD4 |
|  | RELA |  | CRCS6 |  | STING1 |  | SPINT2 |
|  | TOP1 |  | CRCS2 |  | NAP1L1 |  | RTEL1 |
|  | PAK1 |  | PCAT1 |  | MARCKS |  | TXNIP |
|  | CERNA3 |  | PCAT2 |  | CCT5 |  | EMSY |
|  | VIM |  | PRNCR1 |  | FDFT1 |  | KIF15 |
|  | CCNA2 |  | CASC19 |  | TNFAIP8 |  | TRPM8 |
|  | CTSD |  | CASC8 |  | UBAP2L |  | FKBP5 |
|  | NLRP3 |  | CCAT2 |  | UBE3C |  | TRAF2 |
|  | HDAC1 |  | CASC11 |  | TECTA |  | MAP3K5 |
|  | AREG |  | GALNT12 |  | GNL2 |  | S100B |
|  | LGALS3 |  | KLF6 |  | RIPK3 |  | CXCL9 |
|  | SPINK1 |  | CRCS5 |  | GOLGB1 |  | VDAC1 |
|  | IL7R |  | MAP3K8 |  | RPN2 |  | MIR543 |
|  | FOXM1 |  | ERCC6 |  | TNFRSF14 |  | HSPA6 |
|  | XPO1 |  | MXI1 |  | GPSM3 |  | EIF4G1 |
|  | FASN |  | CASC2 |  | ANGPTL2 |  | RPL6 |
|  | HMGB1 |  | HRAS |  | PNMT |  | DDX3X |
|  | RXRA |  | PTPRJ |  | HLA-DRB5 |  | CTC1 |
|  | IL4 |  | CTTN |  | PUS10 |  | PRMT5 |
|  | PRKDC |  | ATM |  | POLA2 |  | PRDX6 |
|  | MIR4435-2HG |  | CRCS7 |  | GIGYF2 |  | MST1 |
|  | BMI1 |  | PPP2R1B |  | EIF3F |  | F5 |
|  | FOS |  | POLE |  | MICAL1 |  | TNFAIP3 |
|  | IL17A |  | BRCA2 |  | MIR4689 |  | MED15 |
|  | CCR6 |  | RB1 |  | SEC13 |  | GAB1 |
|  | CFLAR |  | NKX2-1 |  | STK3 |  | CHD4 |
|  | CTSB |  | CRCS8 |  | GNA12 |  | PKD1 |
|  | DAPK1 |  | MLH3 |  | SETD1A |  | ID2 |
|  | MMP3 |  | XRCC3 |  | EIF3D |  | GNL3 |
|  | CDC42 |  | AKT1 |  | CRHR2 |  | MAGED2 |
|  | GAPDH |  | BUB1B |  | SSBP1 |  | FUT8 |
|  | ANXA5 |  | RAD51 |  | CIRBP |  | WNT16 |
|  | TCF4 |  | CHRNA5 |  | ZFP64 |  | LATS1 |
|  | TMX2-CTNND1 |  | IQGAP1 |  | SLC2A4RG |  | CLDN2 |
|  | IL6R |  | BCAR4 |  | USP25 |  | ADM |
|  | NDRG1 |  | CRNDE |  | DOCK7 |  | PIAS3 |
|  | MIR381 |  | CRCS9 |  | CNR2 |  | XDH |
|  | CDH3 |  | NQO1 |  | POLA1 |  | DVL2 |
|  | SERPINB5 |  | FLCN |  | IL17RB |  | BCL3 |
|  | LGALS1 |  | RAD51D |  | CSN1S1 |  | KRR1 |
|  | MTA1 |  | ERBB2 |  | SMOX |  | DAB2 |
|  | TLR9 |  | BRCA1 |  | SLC11A1 |  | HIC2 |
|  | RIPK1 |  | RNF43 |  | GATD3 |  | CTBP2 |
|  | HERC2 |  | PPM1D |  | RIGI |  | LSP1 |
|  | CXCL1 |  | BRIP1 |  | CUEDC2 |  | GPRC5A |
|  | ALDH1A1 |  | AXIN2 |  | RANBP1 |  | STIM1 |
|  | CSF3 |  | RHBDF2 |  | TRAPPC4 |  | BCAS2 |
|  | HBEGF |  | STK11 |  | VPS16 |  | TNFSF12 |
|  | SOCS1 |  | UCA1 |  | MIR4284 |  | DDB1 |
|  | MMP13 |  | CYP2A6 |  | WDR48 |  | IL12B |
|  | FOXD2-AS1 |  | CRCS11 |  | VPS35 |  | DYRK1B |
|  | DDB2 |  | SRC |  | NUP210 |  | SERPINH1 |
|  | NTRK3 |  | NCOA3 |  | GGA1 |  | ATP1A1 |
|  | HPSE |  | AURKA |  | DCAF4 |  | SLC7A5 |
|  | HDAC2 |  | TFF1 |  | LAP3 |  | NRIP1 |
|  | FSCN1 |  | CHEK2 |  | MARS1 |  | PRSS8 |
|  | PTGER4 |  | AR |  | CASP4 |  | OLFM4 |
|  | ILK |  | CAGE1 |  | GOLIM4 |  |  |
|  | AXL |  | TTF2 |  | USP34 |  |  |

**Table 6｜Core Targets of PPI network**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Target | No. | Target | No. | Target | No. | Target |
|  | MMP3 |  | MTOR |  | HSP90B1 |  | CX3CR1 |
|  | IDO1 |  | ABL1 |  | ERBB4 |  | NFKB1 |
|  | TACR1 |  | PRKDC |  | TRAP1 |  | RELA |
|  | EPHB2 |  | SRC |  | ATR |  | TMPRSS6 |
|  | EPHB3 |  | CDK2 |  | S100B |  | HPSE |
|  | EDNRA |  | CDK4 |  | PNMT |  | SIRT5 |
|  | TOP1 |  | PLK1 |  | KMT2A |  | IL1B |
|  | PPARG |  | AURKA |  | PRMT1 |  | MMP10 |
|  | PTPN2 |  | MMP9 |  | CXCR4 |  | LGALS3 |
|  | NTSR1 |  | MMP2 |  | ILK |  | ABL2 |
|  | PTGS2 |  | BRD4 |  | ALDH1A1 |  | TGFBR2 |
|  | PIK3CA |  | CTSD |  | NR1H2 |  | STK3 |
|  | CTSB |  | MPO |  | POLA1 |  | RIPK3 |
|  | MAP3K8 |  | CXCR2 |  | PI4KB |  | FASN |
|  | CXCL8 |  | AKT1 |  | CLK2 |  | ATP1A1 |
|  | CTNNB1 |  | TRPM8 |  | KDM4D |  | FGF2 |
|  | PTPN11 |  | BRAF |  | GPR35 |  | FOLR1 |
|  | CDC25A |  | MMP13 |  | FGFR3 |  | SLC19A1 |
|  | NOS2 |  | CNR2 |  | SLC7A5 |  | FGFR2 |
|  | MAPK3 |  | MAP3K5 |  | TLR4 |  | F5 |
|  | TERT |  | CASP1 |  | LIMK2 |  | HRAS |
|  | AR |  | CRHR1 |  | NFE2L2 |  | FFAR4 |
|  | TNF |  | CASP8 |  | EP300 |  | HNF4A |
|  | ESR1 |  | GSK3A |  | RXRA |  | RIPK1 |
|  | MIF |  | HDAC3 |  | SPHK1 |  | FPR1 |
|  | PTGER4 |  | NR1H4 |  | RAD51 |  | CDC42 |
|  | IL6 |  | VDR |  | RHOA |  | NDUFA4 |
|  | ADAM17 |  | FBP1 |  | HIF1A |  | PRMT5 |
|  | JAK2| |  | ERBB2 |  | VEGFA |  | BRCA1 |
|  | IL2 |  | CASP4 |  | GAPDH |  | DAPK1 |
|  | ALDH2 |  | CASP9 |  | ATM |  | PIK3R1 |
|  | EGFR |  | MAPK8 |  | CXCR1 |  | CAMK2G |
|  | XDH |  | PRTN3 |  | CSNK2A2 |  | FKBP5 |
|  | PFKFB3 |  | PIM3 |  | ACLY |  | STAT6 |
|  | ALOX15 |  | NOD2 |  | BIRC2 |  | TP53 |
|  | TLR9 |  | DYRK1B |  | HLA-DRB1 |  | STAT1 |
|  | JUN |  | DAPK3 |  | ITGA4 |  | RAC1 |
|  | MDM2 |  | ADH1B |  | CTBP2 |  | SETD2 |
|  | F2RL1 |  | FDFT1 |  | AXL |  | PAK1 |
|  | MAPK9 |  | HDAC1 |  | CHEK2 |  | DDOST |
|  | NLRP3 |  | ASAH1 |  | NQO1 |  | MGMT |
|  | BCL2L1 |  | IDH1 |  | CSNK1A1 |  | CCR6 |
|  | CYP2A6 |  | PLA2G2A |  | SGPL1 |  | GALK1 |
|  | KDR |  | LAP3 |  | PKM |  | BIRC5 |
|  | WEE1 |  | AHR |  | USP10 |  | CCNA2 |
|  | EIF4A1 |  | BCL2 |  | CTSG |  | DDX3X |
|  | HDAC2 |  | STAT3 |  | XPO1 |  | CD274 |
|  | CASP3 |  |  |  |  |  |  |

**Table 7｜Top 100 results of KEGG enrichment**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Term | Count | PValue | Fold Enrichment | FDR |
|  | hsa05200:Pathways in cancer | 66 | 1.90E-35 | 6.20457233 | 2.73E-33 |
|  | hsa05417:Lipid and atherosclerosis | 37 | 7.54E-24 | 8.590643591 | 5.43E-22 |
|  | hsa05205:Proteoglycans in cancer | 32 | 3.11E-19 | 7.792172433 | 8.95E-18 |
|  | hsa05165:Human papillomavirus infection | 32 | 3.15E-13 | 4.825967821 | 1.62E-12 |
|  | hsa05161:Hepatitis B | 31 | 3.03E-21 | 9.552325581 | 1.45E-19 |
|  | hsa05132:Salmonella infection | 31 | 8.95E-16 | 6.214766041 | 9.21E-15 |
|  | hsa04151:PI3K-Akt signaling pathway | 31 | 1.51E-11 | 4.310520179 | 5.43E-11 |
|  | hsa05163:Human cytomegalovirus infection | 30 | 4.08E-16 | 6.655813953 | 5.87E-15 |
|  | hsa05131:Shigellosis | 30 | 5.65E-15 | 6.062988419 | 4.28E-14 |
|  | hsa05167:Kaposi sarcoma-associated herpesvirus infection | 28 | 7.74E-16 | 7.204747063 | 8.57E-15 |
|  | hsa04010:MAPK signaling pathway | 28 | 3.52E-11 | 4.64359113 | 1.10E-10 |
|  | hsa05152:Tuberculosis | 26 | 1.02E-14 | 7.210465116 | 7.33E-14 |
|  | hsa05130:Pathogenic Escherichia coli infection | 26 | 9.54E-14 | 6.554968288 | 5.97E-13 |
|  | hsa05169:Epstein-Barr virus infection | 26 | 1.53E-13 | 6.425166935 | 9.17E-13 |
|  | hsa05170:Human immunodeficiency virus 1 infection | 26 | 4.66E-13 | 6.122093023 | 2.31E-12 |
|  | hsa05166:Human T-cell leukemia virus 1 infection | 26 | 1.34E-12 | 5.846323067 | 5.66E-12 |
|  | hsa05010:Alzheimer disease | 26 | 1.41E-07 | 3.379905523 | 2.66E-07 |
|  | hsa05022:Pathways of neurodegeneration - multiple diseases | 26 | 7.34E-06 | 2.726646473 | 1.08E-05 |
|  | hsa05203:Viral carcinogenesis | 25 | 1.50E-12 | 6.11747606 | 6.19E-12 |
|  | hsa05206:MicroRNAs in cancer | 25 | 9.42E-09 | 4.025693923 | 2.05E-08 |
|  | hsa04933:AGE-RAGE signaling pathway in diabetic complications | 24 | 1.08E-18 | 11.98046512 | 2.58E-17 |
|  | hsa04625:C-type lectin receptor signaling pathway | 24 | 2.77E-18 | 11.519678 | 5.70E-17 |
|  | hsa04210:Apoptosis | 24 | 1.57E-15 | 8.809165527 | 1.50E-14 |
|  | hsa05162:Measles | 24 | 2.25E-15 | 8.681496461 | 2.02E-14 |
|  | hsa05418:Fluid shear stress and atherosclerosis | 24 | 2.61E-15 | 8.619039652 | 2.21E-14 |
|  | hsa04621:NOD-like receptor signaling pathway | 24 | 1.59E-12 | 6.441110278 | 6.19E-12 |
|  | hsa05208:Chemical carcinogenesis - reactive oxygen species | 24 | 7.04E-11 | 5.372405882 | 2.02E-10 |
|  | hsa04014:Ras signaling pathway | 24 | 2.22E-10 | 5.07646827 | 5.62E-10 |
|  | hsa05212:Pancreatic cancer | 23 | 2.69E-20 | 15.10694614 | 9.68E-19 |
|  | hsa04064:NF-kappa B signaling pathway | 13 | 9.34E-07 | 6.239825581 | 1.53E-06 |
|  | hsa05215:Prostate cancer | 23 | 8.81E-18 | 11.83637018 | 1.59E-16 |
|  | hsa04668:TNF signaling pathway | 23 | 3.44E-16 | 10.07129743 | 5.50E-15 |
|  | hsa04510:Focal adhesion | 23 | 7.15E-11 | 5.655802497 | 2.02E-10 |
|  | hsa05207:Chemical carcinogenesis - receptor activation | 23 | 1.68E-10 | 5.415697674 | 4.49E-10 |
|  | hsa05135:Yersinia infection | 22 | 2.22E-13 | 8.016126294 | 1.28E-12 |
|  | hsa04062:Chemokine signaling pathway | 22 | 1.68E-10 | 5.719840116 | 4.49E-10 |
|  | hsa04932:Non-alcoholic fatty liver disease | 21 | 2.28E-11 | 6.763165791 | 7.65E-11 |
|  | hsa05160:Hepatitis C | 21 | 3.27E-11 | 6.634751251 | 1.05E-10 |
|  | hsa05164:Influenza A | 21 | 1.40E-10 | 6.130354957 | 3.89E-10 |
|  | hsa05171:Coronavirus disease - COVID-19 | 21 | 3.01E-08 | 4.518494387 | 6.20E-08 |
|  | hsa05168:Herpes simplex virus 1 infection | 21 | 0.002867528 | 2.047442769 | 0.003176338 |
|  | hsa01521:EGFR tyrosine kinase inhibitor resistance | 20 | 5.26E-16 | 12.63762143 | 6.89E-15 |
|  | hsa05210:Colorectal cancer | 20 | 3.09E-15 | 11.60897783 | 2.47E-14 |
|  | hsa01522:Endocrine resistance | 20 | 3.94E-14 | 10.18747034 | 2.70E-13 |
|  | hsa04620:Toll-like receptor signaling pathway | 20 | 2.53E-13 | 9.244186047 | 1.40E-12 |
|  | hsa04066:HIF-1 signaling pathway | 20 | 3.01E-13 | 9.159377 | 1.61E-12 |
|  | hsa04722:Neurotrophin signaling pathway | 20 | 1.56E-12 | 8.389681454 | 6.19E-12 |
|  | hsa04919:Thyroid hormone signaling pathway | 20 | 2.12E-12 | 8.251009033 | 8.05E-12 |
|  | hsa04218:Cellular senescence | 20 | 2.07E-10 | 6.399821109 | 5.31E-10 |
|  | hsa05142:Chagas disease | 19 | 1.05E-12 | 9.298563611 | 4.75E-12 |
|  | hsa04071:Sphingolipid signaling pathway | 19 | 2.14E-11 | 7.838458582 | 7.35E-11 |
|  | hsa05226:Gastric cancer | 19 | 7.29E-10 | 6.365459654 | 1.69E-09 |
|  | hsa05202:Transcriptional misregulation in cancer | 19 | 4.63E-08 | 4.914266779 | 9.27E-08 |
|  | hsa05220:Chronic myeloid leukemia | 18 | 7.57E-14 | 11.82282742 | 4.96E-13 |
|  | hsa04012:ErbB signaling pathway | 18 | 5.42E-13 | 10.57099863 | 2.60E-12 |
|  | hsa05235:PD-L1 expression and PD-1 checkpoint pathway in cancer | 18 | 1.20E-12 | 10.09589757 | 5.24E-12 |
|  | hsa04659:Th17 cell differentiation | 18 | 3.15E-11 | 8.319767442 | 1.03E-10 |
|  | hsa05145:Toxoplasmosis | 18 | 4.95E-11 | 8.094908862 | 1.48E-10 |
|  | hsa04660:T cell receptor signaling pathway | 18 | 2.02E-10 | 7.42590813 | 5.29E-10 |
|  | hsa04926:Relaxin signaling pathway | 18 | 5.64E-10 | 6.965386696 | 1.38E-09 |
|  | hsa04068:FoxO signaling pathway | 18 | 7.20E-10 | 6.859044914 | 1.69E-09 |
|  | hsa04936:Alcoholic liver disease | 18 | 2.56E-09 | 6.327710449 | 5.77E-09 |
|  | hsa04613:Neutrophil extracellular trap formation | 18 | 2.21E-07 | 4.704371119 | 3.98E-07 |
|  | hsa04015:Rap1 signaling pathway | 18 | 8.55E-07 | 4.278737542 | 1.42E-06 |
|  | hsa04024:cAMP signaling pathway | 18 | 2.23E-06 | 3.993488372 | 3.49E-06 |
|  | hsa04810:Regulation of actin cytoskeleton | 18 | 2.84E-06 | 3.923733117 | 4.40E-06 |
|  | hsa01524:Platinum drug resistance | 17 | 5.96E-13 | 11.62488054 | 2.77E-12 |
|  | hsa04657:IL-17 signaling pathway | 17 | 3.61E-11 | 9.027832756 | 1.11E-10 |
|  | hsa05224:Breast cancer | 17 | 3.08E-08 | 5.772899858 | 6.24E-08 |
|  | hsa04217:Necroptosis | 17 | 9.38E-08 | 5.337209302 | 1.83E-07 |
|  | hsa05225:Hepatocellular carcinoma | 17 | 2.02E-07 | 5.051287375 | 3.69E-07 |
|  | hsa04360:Axon guidance | 17 | 6.06E-07 | 4.662726808 | 1.01E-06 |
|  | hsa05219:Bladder cancer | 16 | 6.51E-16 | 19.48043108 | 7.81E-15 |
|  | hsa05120:Epithelial cell signaling in Helicobacter pylori infection | 16 | 4.63E-12 | 11.40996678 | 1.71E-11 |
|  | hsa05133:Pertussis | 16 | 1.64E-11 | 10.50917993 | 5.77E-11 |
|  | hsa05222:Small cell lung cancer | 16 | 2.88E-10 | 8.681496461 | 7.14E-10 |
|  | hsa04110:Cell cycle | 16 | 4.75E-07 | 5.087246334 | 8.15E-07 |
|  | hsa04630:JAK-STAT signaling pathway | 16 | 9.76E-07 | 4.811431774 | 1.58E-06 |
|  | hsa05415:Diabetic cardiomyopathy | 16 | 1.19E-05 | 3.934471303 | 1.69E-05 |
|  | hsa05230:Central carbon metabolism in cancer | 15 | 6.64E-11 | 10.69684385 | 1.95E-10 |
|  | hsa04380:Osteoclast differentiation | 15 | 4.26E-07 | 5.546511628 | 7.40E-07 |
|  | hsa04915:Estrogen signaling pathway | 15 | 5.12E-07 | 5.465540655 | 8.67E-07 |
|  | hsa04140:Autophagy - animal | 15 | 4.80E-06 | 4.538054968 | 7.28E-06 |
|  | hsa04020:Calcium signaling pathway | 15 | 5.10E-04 | 2.959601066 | 6.17E-04 |
|  | hsa05211:Renal cell carcinoma | 14 | 7.21E-10 | 10.12841254 | 1.69E-09 |
|  | hsa04370:VEGF signaling pathway | 13 | 1.31E-09 | 10.99901458 | 3.01E-09 |
|  | hsa05321:Inflammatory bowel disease | 13 | 4.27E-09 | 9.98372093 | 9.45E-09 |
|  | hsa04917:Prolactin signaling pathway | 13 | 1.03E-08 | 9.270598007 | 2.22E-08 |
|  | hsa05223:Non-small cell lung cancer | 13 | 1.44E-08 | 9.013081395 | 3.01E-08 |
|  | hsa04931:Insulin resistance | 13 | 1.41E-06 | 6.00872093 | 2.22E-06 |
|  | hsa04072:Phospholipase D signaling pathway | 13 | 3.69E-05 | 4.3847423 | 5.01E-05 |
|  | hsa04144:Endocytosis | 13 | 0.004173836 | 2.595767442 | 0.004485317 |
|  | hsa05020:Prion disease | 13 | 0.008058778 | 2.385815663 | 0.00847054 |
|  | hsa05016:Huntington disease | 13 | 0.019072277 | 2.120725034 | 0.019617199 |
|  | hsa05014:Amyotrophic lateral sclerosis | 13 | 0.05935151 | 1.782807309 | 0.05935151 |
|  | hsa05213:Endometrial cancer | 12 | 1.43E-08 | 10.32798717 | 3.01E-08 |
|  | hsa05221:Acute myeloid leukemia | 12 | 6.93E-08 | 8.940645609 | 1.37E-07 |
|  | hsa04115:p53 signaling pathway | 12 | 2.00E-07 | 8.094908862 | 3.69E-07 |
|  | hsa05214:Glioma | 12 | 2.30E-07 | 7.986976744 | 4.09E-07 |
|  | hsa05140:Leishmaniasis | 12 | 3.03E-07 | 7.779522803 | 5.33E-07 |

**Table 8｜Top 30 results of GO enrichment**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Term | Enrichment | P Value | Count | CLASS |
|  | negative regulation of apoptotic process | 23.93617021 | 2.19E-28 | 45 | BP |
|  | protein phosphorylation | 21.27659574 | 2.27E-26 | 40 | BP |
|  | inflammatory response | 19.14893617 | 2.03E-22 | 36 | BP |
|  | cellular response to lipopolysaccharide | 13.82978723 | 5.64E-21 | 26 | BP |
|  | positive regulation of transcription from RNA polymerase II promoter | 27.12765957 | 7.63E-19 | 51 | BP |
|  | positive regulation of cell proliferation | 18.61702128 | 2.33E-18 | 35 | BP |
|  | protein autophosphorylation | 12.23404255 | 3.69E-18 | 23 | BP |
|  | positive regulation of gene expression | 18.08510638 | 4.41E-18 | 34 | BP |
|  | positive regulation of transcription, DNA-templated | 20.74468085 | 8.09E-18 | 39 | BP |
|  | positive regulation of apoptotic process | 14.89361702 | 2.02E-17 | 28 | BP |
|  | cytosol | 60.63829787 | 1.13E-21 | 114 | CC |
|  | macromolecular complex | 20.21276596 | 2.33E-18 | 38 | CC |
|  | cytoplasm | 57.9787234 | 1.03E-17 | 109 | CC |
|  | nucleoplasm | 46.80851064 | 6.83E-17 | 88 | CC |
|  | nucleus | 56.38297872 | 2.68E-14 | 106 | CC |
|  | receptor complex | 8.510638298 | 2.22E-09 | 16 | CC |
|  | membrane raft | 8.510638298 | 8.77E-09 | 16 | CC |
|  | plasma membrane | 45.74468085 | 1.46E-08 | 86 | CC |
|  | chromatin | 15.95744681 | 2.75E-07 | 30 | CC |
|  | cell surface | 11.70212766 | 5.92E-07 | 22 | CC |
|  | protein serine/threonine/tyrosine kinase activity | 23.40425532 | 2.04E-30 | 44 | MF |
|  | protein kinase activity | 19.14893617 | 6.70E-24 | 36 | MF |
|  | ATP binding | 32.44680851 | 2.27E-21 | 61 | MF |
|  | protein serine/threonine kinase activity | 17.55319149 | 4.45E-20 | 33 | MF |
|  | enzyme binding | 17.0212766 | 1.51E-19 | 32 | MF |
|  | identical protein binding | 32.9787234 | 1.65E-19 | 62 | MF |
|  | protein binding | 93.08510638 | 4.16E-18 | 175 | MF |
|  | protein tyrosine kinase activity | 8.510638298 | 4.06E-13 | 16 | MF |
|  | protein kinase binding | 13.82978723 | 6.85E-11 | 26 | MF |
|  | RNA polymerase II transcription factor activity, ligand-activated sequence-specific DNA binding | 5.85106383 | 1.12E-10 | 11 | MF |