**Additional file 1: Drug-target interaction pairs on *Dataset2***

The detailed drug-target interaction system for enzymes, ion channels, GPCRs and nuclear receptors on benchmark *Dataset2* were shown in Table I, II, III and IV, respectively. It contains 16140 drug-target pairs in total, of which 3627 for enzymes, 5511 for ion channels, 5955 for GPCRs, and 1047 for nuclear receptors. In each table, the column named class is the label indicates the pair with 1 for positive samples and 0 for negative samples. All detailed information about these interactions can be found in KEGG BRITE database. In addition, our data is an independent dataset which not contain redundant information from reference (He, Zhisong, et al. "Predicting Drug-Target Interaction Networks Based on Functional Groups and Biological Features." *Plos One* 5.3 (2010): e9603.) (in our study called *Dataset1*).

Table I The overall of drug-target interactions for enzymes class on *Dataset2*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **class** | **Target** | **Drug** | **class** | **Target** | **Drug** | **class** | **Target** | **Drug** |
| 1 | hsa\_983 | D09604 | 0 | hsa\_983 | D08688 | 0 | hsa\_47 | D10450 |
| 1 | hsa\_9759 | D06637 | 0 | hsa\_983 | D03208 | 0 | hsa\_47 | D05900 |
| 1 | hsa\_9759 | D08870 | 0 | hsa\_983 | D08131 | 0 | hsa\_47 | D02218 |
| 1 | hsa\_9759 | D10019 | 0 | hsa\_983 | D08102 | 0 | hsa\_47 | D10431 |
| 1 | hsa\_9759 | D10060 | 0 | hsa\_983 | D09730 | 0 | hsa\_4322 | D08878 |
| 1 | hsa\_9759 | D10084 | 0 | hsa\_983 | D10229 | 0 | hsa\_4322 | D01896 |
| 1 | hsa\_9759 | D10319 | 0 | hsa\_983 | D08363 | 0 | hsa\_4322 | D10641 |
| 1 | hsa\_9734 | D06637 | 0 | hsa\_983 | D07439 | 0 | hsa\_4322 | D07080 |
| 1 | hsa\_9734 | D08870 | 0 | hsa\_983 | D08344 | 0 | hsa\_4322 | D00718 |
| 1 | hsa\_9734 | D10019 | 0 | hsa\_9759 | D09750 | 0 | hsa\_4322 | D05096 |
| 1 | hsa\_9734 | D10060 | 0 | hsa\_9759 | D07080 | 0 | hsa\_4322 | D10091 |
| 1 | hsa\_9734 | D10084 | 0 | hsa\_9759 | D08556 | 0 | hsa\_4322 | D09334 |
| 1 | hsa\_9734 | D10319 | 0 | hsa\_9759 | D09750 | 0 | hsa\_4322 | D09546 |
| 1 | hsa\_9475 | D01840 | 0 | hsa\_9759 | D07941 | 0 | hsa\_4313 | D05728 |
| 1 | hsa\_9475 | D03115 | 0 | hsa\_9759 | D10529 | 0 | hsa\_4313 | D07969 |
| 1 | hsa\_9475 | D07941 | 0 | hsa\_9759 | D03099 | 0 | hsa\_4313 | D09640 |
| 1 | hsa\_9475 | D10737 | 0 | hsa\_9759 | D00181 | 0 | hsa\_4313 | D01683 |
| 1 | hsa\_9475 | D10738 | 0 | hsa\_9759 | D03378 | 0 | hsa\_4313 | D08953 |
| 1 | hsa\_9212 | D08279 | 0 | hsa\_9759 | D10635 | 0 | hsa\_4313 | D03938 |
| 1 | hsa\_9212 | D08344 | 0 | hsa\_9759 | D05502 | 0 | hsa\_4312 | D08668 |
| 1 | hsa\_8974 | D04793 | 0 | hsa\_9734 | D09621 | 0 | hsa\_4312 | D08238 |
| 1 | hsa\_8972 | D09779 | 0 | hsa\_9734 | D06068 | 0 | hsa\_4312 | D08668 |
| 1 | hsa\_8841 | D06637 | 0 | hsa\_9734 | D04720 | 0 | hsa\_4312 | D08162 |
| 1 | hsa\_8841 | D08870 | 0 | hsa\_9734 | D07144 | 0 | hsa\_4312 | D05215 |
| 1 | hsa\_8841 | D10019 | 0 | hsa\_9734 | D07983 | 0 | hsa\_4312 | D06320 |
| 1 | hsa\_8841 | D10060 | 0 | hsa\_9734 | D05033 | 0 | hsa\_4312 | D10432 |
| 1 | hsa\_8841 | D10084 | 0 | hsa\_9734 | D02714 | 0 | hsa\_4312 | D00112 |
| 1 | hsa\_8841 | D10319 | 0 | hsa\_9734 | D06578 | 0 | hsa\_4311 | D09956 |
| 1 | hsa\_8694 | D10657 | 0 | hsa\_9734 | D10405 | 0 | hsa\_4311 | D10130 |
| 1 | hsa\_8694 | D10664 | 0 | hsa\_9734 | D08261 | 0 | hsa\_4311 | D08463 |
| 1 | hsa\_8654 | D03217 | 0 | hsa\_9734 | D08073 | 0 | hsa\_4311 | D08516 |
| 1 | hsa\_8654 | D03260 | 0 | hsa\_9475 | D07582 | 0 | hsa\_4311 | D07940 |
| 1 | hsa\_8654 | D03657 | 0 | hsa\_9475 | D04368 | 0 | hsa\_4311 | D10365 |
| 1 | hsa\_8654 | D08514 | 0 | hsa\_9475 | D03786 | 0 | hsa\_4311 | D07137 |
| 1 | hsa\_8654 | D08668 | 0 | hsa\_9475 | D10076 | 0 | hsa\_4311 | D07516 |
| 1 | hsa\_8654 | D09621 | 0 | hsa\_9475 | D10308 | 0 | hsa\_4311 | D03217 |
| 1 | hsa\_8654 | D09622 | 0 | hsa\_9475 | D10560 | 0 | hsa\_4311 | D09692 |
| 1 | hsa\_8654 | D09989 | 0 | hsa\_9475 | D01267 | 0 | hsa\_4311 | D08374 |
| 1 | hsa\_8654 | D10027 | 0 | hsa\_9475 | D08870 | 0 | hsa\_43 | D09786 |
| 1 | hsa\_8622 | D00718 | 0 | hsa\_9212 | D01841 | 0 | hsa\_43 | D10635 |
| 1 | hsa\_8622 | D01220 | 0 | hsa\_9212 | D01846 | 0 | hsa\_43 | D07144 |
| 1 | hsa\_8622 | D01630 | 0 | hsa\_9212 | D10255 | 0 | hsa\_43 | D01846 |
| 1 | hsa\_8622 | D02218 | 0 | hsa\_9212 | D08878 | 0 | hsa\_43 | D03718 |
| 1 | hsa\_8622 | D06132 | 0 | hsa\_9212 | D05400 | 0 | hsa\_43 | D07974 |
| 1 | hsa\_8622 | D07089 | 0 | hsa\_9212 | D01630 | 0 | hsa\_43 | D08917 |
| 1 | hsa\_8622 | D07425 | 0 | hsa\_9212 | D10543 | 0 | hsa\_43 | D03747 |
| 1 | hsa\_8622 | D07439 | 0 | hsa\_9212 | D03115 | 0 | hsa\_43 | D04529 |
| 1 | hsa\_8622 | D07961 | 0 | hsa\_9212 | D10481 | 0 | hsa\_43 | D03650 |
| 1 | hsa\_8622 | D08238 | 0 | hsa\_9212 | D03061 | 0 | hsa\_4233 | D09955 |
| 1 | hsa\_84647 | D06283 | 0 | hsa\_8974 | D10365 | 0 | hsa\_4233 | D02729 |
| 1 | hsa\_84647 | D08107 | 0 | hsa\_8974 | D10064 | 0 | hsa\_4233 | D03658 |
| 1 | hsa\_84647 | D08221 | 0 | hsa\_8974 | D03745 | 0 | hsa\_4233 | D09730 |
| 1 | hsa\_8399 | D06283 | 0 | hsa\_8974 | D09760 | 0 | hsa\_4233 | D09750 |
| 1 | hsa\_8399 | D08107 | 0 | hsa\_8974 | D00428 | 0 | hsa\_4233 | D08556 |
| 1 | hsa\_8399 | D08221 | 0 | hsa\_8974 | D01581 | 0 | hsa\_4233 | D10426 |
| 1 | hsa\_83933 | D06637 | 0 | hsa\_8974 | D06612 | 0 | hsa\_4233 | D09881 |
| 1 | hsa\_83933 | D08870 | 0 | hsa\_8974 | D00564 | 0 | hsa\_4129 | D10182 |
| 1 | hsa\_83933 | D10019 | 0 | hsa\_8972 | D08516 | 0 | hsa\_4129 | D10399 |
| 1 | hsa\_83933 | D10060 | 0 | hsa\_8972 | D07969 | 0 | hsa\_4129 | D07439 |
| 1 | hsa\_83933 | D10084 | 0 | hsa\_8972 | D06272 | 0 | hsa\_4129 | D10437 |
| 1 | hsa\_83933 | D10319 | 0 | hsa\_8972 | D08529 | 0 | hsa\_4129 | D10696 |
| 1 | hsa\_834 | D08978 | 0 | hsa\_8972 | D10019 | 0 | hsa\_4129 | D08108 |
| 1 | hsa\_834 | D10416 | 0 | hsa\_8972 | D10481 | 0 | hsa\_4129 | D06645 |
| 1 | hsa\_81579 | D06283 | 0 | hsa\_8972 | D10616 | 0 | hsa\_4129 | D08469 |
| 1 | hsa\_81579 | D08107 | 0 | hsa\_8972 | D09333 | 0 | hsa\_4129 | D01572 |
| 1 | hsa\_81579 | D08221 | 0 | hsa\_8841 | D05292 | 0 | hsa\_4129 | D09919 |
| 1 | hsa\_79644 | D00321 | 0 | hsa\_8841 | D03828 | 0 | hsa\_4129 | D08883 |
| 1 | hsa\_79644 | D01134 | 0 | hsa\_8841 | D04696 | 0 | hsa\_4129 | D06412 |
| 1 | hsa\_79644 | D04498 | 0 | hsa\_8841 | D00939 | 0 | hsa\_4129 | D10189 |
| 1 | hsa\_7941 | D03650 | 0 | hsa\_8841 | D03082 | 0 | hsa\_4129 | D07338 |
| 1 | hsa\_7941 | D04368 | 0 | hsa\_8841 | D09920 | 0 | hsa\_4129 | D10076 |
| 1 | hsa\_7941 | D05728 | 0 | hsa\_8841 | D06320 | 0 | hsa\_4129 | D10262 |
| 1 | hsa\_79001 | D00564 | 0 | hsa\_8841 | D03747 | 0 | hsa\_4128 | D01840 |
| 1 | hsa\_79001 | D01280 | 0 | hsa\_8841 | D07142 | 0 | hsa\_4128 | D09959 |
| 1 | hsa\_79001 | D05457 | 0 | hsa\_8841 | D09572 | 0 | hsa\_4128 | D07564 |
| 1 | hsa\_79001 | D07064 | 0 | hsa\_8694 | D09692 | 0 | hsa\_4128 | D08102 |
| 1 | hsa\_79001 | D07131 | 0 | hsa\_8694 | D04793 | 0 | hsa\_4128 | D08102 |
| 1 | hsa\_79001 | D07134 | 0 | hsa\_8694 | D01920 | 0 | hsa\_4128 | D04681 |
| 1 | hsa\_79001 | D07135 | 0 | hsa\_8694 | D02755 | 0 | hsa\_4128 | D03163 |
| 1 | hsa\_79001 | D07136 | 0 | hsa\_8694 | D10317 | 0 | hsa\_4128 | D10140 |
| 1 | hsa\_79001 | D07137 | 0 | hsa\_8694 | D08878 | 0 | hsa\_4128 | D10130 |
| 1 | hsa\_79001 | D07969 | 0 | hsa\_8694 | D09919 | 0 | hsa\_412 | D08900 |
| 1 | hsa\_79001 | D08354 | 0 | hsa\_8654 | D10721 | 0 | hsa\_412 | D08529 |
| 1 | hsa\_79001 | D08682 | 0 | hsa\_8654 | D10552 | 0 | hsa\_412 | D03234 |
| 1 | hsa\_79001 | D09676 | 0 | hsa\_8654 | D07142 | 0 | hsa\_412 | D08903 |
| 1 | hsa\_79001 | D09677 | 0 | hsa\_8654 | D07089 | 0 | hsa\_412 | D10738 |
| 1 | hsa\_771 | D01822 | 0 | hsa\_8654 | D07917 | 0 | hsa\_412 | D10202 |
| 1 | hsa\_771 | D02441 | 0 | hsa\_8654 | D05511 | 0 | hsa\_412 | D10604 |
| 1 | hsa\_771 | D03845 | 0 | hsa\_8654 | D10386 | 0 | hsa\_412 | D07581 |
| 1 | hsa\_771 | D07871 | 0 | hsa\_8654 | D04486 | 0 | hsa\_412 | D02729 |
| 1 | hsa\_768 | D01822 | 0 | hsa\_8654 | D03409 | 0 | hsa\_412 | D00718 |
| 1 | hsa\_768 | D02441 | 0 | hsa\_8654 | D09602 | 0 | hsa\_412 | D09589 |
| 1 | hsa\_768 | D03845 | 0 | hsa\_8622 | D07123 | 0 | hsa\_412 | D08913 |
| 1 | hsa\_768 | D07871 | 0 | hsa\_8622 | D09925 | 0 | hsa\_412 | D10173 |
| 1 | hsa\_767 | D01822 | 0 | hsa\_8622 | D10432 | 0 | hsa\_412 | D04537 |
| 1 | hsa\_767 | D02441 | 0 | hsa\_8622 | D10137 | 0 | hsa\_4047 | D05819 |
| 1 | hsa\_767 | D03845 | 0 | hsa\_8622 | D09753 | 0 | hsa\_4047 | D08556 |
| 1 | hsa\_767 | D07871 | 0 | hsa\_8622 | D08238 | 0 | hsa\_4047 | D07425 |
| 1 | hsa\_766 | D01822 | 0 | hsa\_8622 | D07781 | 0 | hsa\_4047 | D08073 |
| 1 | hsa\_766 | D02441 | 0 | hsa\_8622 | D09753 | 0 | hsa\_4047 | D10103 |
| 1 | hsa\_766 | D03845 | 0 | hsa\_8622 | D01630 | 0 | hsa\_4047 | D10596 |
| 1 | hsa\_766 | D07871 | 0 | hsa\_8622 | D09198 | 0 | hsa\_4047 | D05589 |
| 1 | hsa\_765 | D01822 | 0 | hsa\_8622 | D08516 | 0 | hsa\_4047 | D10715 |
| 1 | hsa\_765 | D02441 | 0 | hsa\_8622 | D10709 | 0 | hsa\_4047 | D03234 |
| 1 | hsa\_765 | D03845 | 0 | hsa\_84647 | D09033 | 0 | hsa\_4047 | D10085 |
| 1 | hsa\_765 | D07871 | 0 | hsa\_84647 | D10017 | 0 | hsa\_4047 | D09925 |
| 1 | hsa\_763 | D01822 | 0 | hsa\_84647 | D03254 | 0 | hsa\_4023 | D08225 |
| 1 | hsa\_763 | D02441 | 0 | hsa\_84647 | D04628 | 0 | hsa\_4023 | D10664 |
| 1 | hsa\_763 | D03845 | 0 | hsa\_84647 | D05900 | 0 | hsa\_4023 | D08004 |
| 1 | hsa\_763 | D07871 | 0 | hsa\_84647 | D08682 | 0 | hsa\_4023 | D09604 |
| 1 | hsa\_762 | D01822 | 0 | hsa\_84647 | D03021 | 0 | hsa\_391013 | D10189 |
| 1 | hsa\_762 | D02441 | 0 | hsa\_84647 | D07992 | 0 | hsa\_391013 | D00718 |
| 1 | hsa\_762 | D03845 | 0 | hsa\_84647 | D07817 | 0 | hsa\_391013 | D10155 |
| 1 | hsa\_762 | D07871 | 0 | hsa\_8399 | D04490 | 0 | hsa\_391013 | D07134 |
| 1 | hsa\_761 | D01822 | 0 | hsa\_8399 | D09786 | 0 | hsa\_391013 | D06612 |
| 1 | hsa\_761 | D02441 | 0 | hsa\_8399 | D10173 | 0 | hsa\_391013 | D07961 |
| 1 | hsa\_761 | D03845 | 0 | hsa\_8399 | D09334 | 0 | hsa\_391013 | D10653 |
| 1 | hsa\_761 | D07871 | 0 | hsa\_8399 | D10319 | 0 | hsa\_391013 | D07260 |
| 1 | hsa\_760 | D01822 | 0 | hsa\_8399 | D08261 | 0 | hsa\_391013 | D08085 |
| 1 | hsa\_760 | D02441 | 0 | hsa\_8399 | D04793 | 0 | hsa\_391013 | D09756 |
| 1 | hsa\_760 | D03845 | 0 | hsa\_8399 | D09666 | 0 | hsa\_391013 | D03652 |
| 1 | hsa\_760 | D07871 | 0 | hsa\_83933 | D03657 | 0 | hsa\_3818 | D07888 |
| 1 | hsa\_759 | D01822 | 0 | hsa\_83933 | D03602 | 0 | hsa\_3818 | D05181 |
| 1 | hsa\_759 | D03845 | 0 | hsa\_83933 | D08364 | 0 | hsa\_3818 | D04791 |
| 1 | hsa\_759 | D07871 | 0 | hsa\_83933 | D06612 | 0 | hsa\_3818 | D00941 |
| 1 | hsa\_7498 | D01206 | 0 | hsa\_83933 | D09635 | 0 | hsa\_3818 | D00152 |
| 1 | hsa\_7498 | D02365 | 0 | hsa\_83933 | D07580 | 0 | hsa\_3818 | D04628 |
| 1 | hsa\_7498 | D07564 | 0 | hsa\_83933 | D02729 | 0 | hsa\_3818 | D10131 |
| 1 | hsa\_7498 | D09786 | 0 | hsa\_83933 | D09955 | 0 | hsa\_3818 | D06387 |
| 1 | hsa\_7357 | D05032 | 0 | hsa\_83933 | D08503 | 0 | hsa\_3815 | D07917 |
| 1 | hsa\_7357 | D09893 | 0 | hsa\_834 | D10172 | 0 | hsa\_3815 | D09707 |
| 1 | hsa\_7357 | D09894 | 0 | hsa\_834 | D04822 | 0 | hsa\_3815 | D09955 |
| 1 | hsa\_7299 | D00073 | 0 | hsa\_834 | D00420 | 0 | hsa\_3815 | D07147 |
| 1 | hsa\_7298 | D01244 | 0 | hsa\_834 | D08094 | 0 | hsa\_3815 | D09881 |
| 1 | hsa\_7298 | D01309 | 0 | hsa\_834 | D02365 | 0 | hsa\_3791 | D04023 |
| 1 | hsa\_7298 | D01784 | 0 | hsa\_81579 | D03409 | 0 | hsa\_3791 | D10593 |
| 1 | hsa\_7298 | D04964 | 0 | hsa\_81579 | D08392 | 0 | hsa\_3791 | D10202 |
| 1 | hsa\_7298 | D07974 | 0 | hsa\_81579 | D08294 | 0 | hsa\_3791 | D09667 |
| 1 | hsa\_7173 | D07231 | 0 | hsa\_81579 | D01675 | 0 | hsa\_3791 | D10372 |
| 1 | hsa\_7173 | D07519 | 0 | hsa\_81579 | D08349 | 0 | hsa\_377677 | D08860 |
| 1 | hsa\_7155 | D01404 | 0 | hsa\_81579 | D07818 | 0 | hsa\_377677 | D05900 |
| 1 | hsa\_7155 | D01747 | 0 | hsa\_81579 | D00718 | 0 | hsa\_377677 | D04107 |
| 1 | hsa\_7155 | D03602 | 0 | hsa\_81579 | D07580 | 0 | hsa\_377677 | D08363 |
| 1 | hsa\_7155 | D04107 | 0 | hsa\_79644 | D00942 | 0 | hsa\_377677 | D03021 |
| 1 | hsa\_7155 | D04685 | 0 | hsa\_79644 | D07100 | 0 | hsa\_377677 | D09760 |
| 1 | hsa\_7155 | D04791 | 0 | hsa\_79644 | D10691 | 0 | hsa\_377677 | D02365 |
| 1 | hsa\_7155 | D07100 | 0 | hsa\_79644 | D08688 | 0 | hsa\_377677 | D00087 |
| 1 | hsa\_7155 | D07776 | 0 | hsa\_79644 | D07941 | 0 | hsa\_377677 | D04498 |
| 1 | hsa\_7155 | D07901 | 0 | hsa\_79644 | D09780 | 0 | hsa\_377677 | D01841 |
| 1 | hsa\_7155 | D08024 | 0 | hsa\_79644 | D10138 | 0 | hsa\_377677 | D10658 |
| 1 | hsa\_7155 | D08062 | 0 | hsa\_79644 | D07231 | 0 | hsa\_3718 | D10191 |
| 1 | hsa\_7155 | D08224 | 0 | hsa\_7941 | D06379 | 0 | hsa\_3718 | D08682 |
| 1 | hsa\_7155 | D08386 | 0 | hsa\_7941 | D07556 | 0 | hsa\_3718 | D09664 |
| 1 | hsa\_7155 | D08854 | 0 | hsa\_7941 | D04092 | 0 | hsa\_3718 | D05512 |
| 1 | hsa\_7155 | D08871 | 0 | hsa\_7941 | D04863 | 0 | hsa\_3718 | D01309 |
| 1 | hsa\_7155 | D10090 | 0 | hsa\_7941 | D08657 | 0 | hsa\_3718 | D03213 |
| 1 | hsa\_7155 | D10091 | 0 | hsa\_7941 | D10721 | 0 | hsa\_3718 | D07983 |
| 1 | hsa\_7153 | D01404 | 0 | hsa\_7941 | D04508 | 0 | hsa\_3718 | D03657 |
| 1 | hsa\_7153 | D01747 | 0 | hsa\_7941 | D04770 | 0 | hsa\_3718 | D10674 |
| 1 | hsa\_7153 | D03602 | 0 | hsa\_7941 | D07425 | 0 | hsa\_3718 | D09750 |
| 1 | hsa\_7153 | D04107 | 0 | hsa\_7941 | D07142 | 0 | hsa\_3718 | D08555 |
| 1 | hsa\_7153 | D04685 | 0 | hsa\_79001 | D05893 | 0 | hsa\_3718 | D08544 |
| 1 | hsa\_7153 | D04791 | 0 | hsa\_79001 | D00939 | 0 | hsa\_3718 | D08950 |
| 1 | hsa\_7153 | D07100 | 0 | hsa\_79001 | D01630 | 0 | hsa\_3718 | D05590 |
| 1 | hsa\_7153 | D07776 | 0 | hsa\_79001 | D10585 | 0 | hsa\_3718 | D05400 |
| 1 | hsa\_7153 | D07901 | 0 | hsa\_79001 | D10696 | 0 | hsa\_3717 | D10086 |
| 1 | hsa\_7153 | D08024 | 0 | hsa\_79001 | D10190 | 0 | hsa\_3717 | D09956 |
| 1 | hsa\_7153 | D08062 | 0 | hsa\_79001 | D09925 | 0 | hsa\_3717 | D10062 |
| 1 | hsa\_7153 | D08224 | 0 | hsa\_771 | D09893 | 0 | hsa\_3717 | D07699 |
| 1 | hsa\_7153 | D08386 | 0 | hsa\_771 | D01267 | 0 | hsa\_3717 | D07941 |
| 1 | hsa\_7153 | D08854 | 0 | hsa\_771 | D10382 | 0 | hsa\_3717 | D03998 |
| 1 | hsa\_7153 | D08871 | 0 | hsa\_771 | D07519 | 0 | hsa\_3717 | D07260 |
| 1 | hsa\_7153 | D10090 | 0 | hsa\_771 | D04014 | 0 | hsa\_3717 | D02365 |
| 1 | hsa\_7153 | D10091 | 0 | hsa\_771 | D10471 | 0 | hsa\_3717 | D09572 |
| 1 | hsa\_7150 | D03225 | 0 | hsa\_771 | D04245 | 0 | hsa\_3717 | D09198 |
| 1 | hsa\_7150 | D03954 | 0 | hsa\_771 | D01206 | 0 | hsa\_3717 | D07556 |
| 1 | hsa\_7150 | D04822 | 0 | hsa\_771 | D07781 | 0 | hsa\_3717 | D04751 |
| 1 | hsa\_7150 | D08086 | 0 | hsa\_768 | D10255 | 0 | hsa\_3717 | D05513 |
| 1 | hsa\_7150 | D08618 | 0 | hsa\_768 | D10688 | 0 | hsa\_3717 | D08131 |
| 1 | hsa\_7150 | D09327 | 0 | hsa\_768 | D03099 | 0 | hsa\_3716 | D00123 |
| 1 | hsa\_7150 | D09679 | 0 | hsa\_768 | D08327 | 0 | hsa\_3716 | D08427 |
| 1 | hsa\_7046 | D10437 | 0 | hsa\_768 | D01220 | 0 | hsa\_3716 | D05511 |
| 1 | hsa\_7010 | D10334 | 0 | hsa\_768 | D00941 | 0 | hsa\_3716 | D10737 |
| 1 | hsa\_7010 | D10399 | 0 | hsa\_768 | D06637 | 0 | hsa\_3716 | D09920 |
| 1 | hsa\_695 | D10223 | 0 | hsa\_768 | D09817 | 0 | hsa\_3716 | D10584 |
| 1 | hsa\_695 | D10730 | 0 | hsa\_767 | D10064 | 0 | hsa\_3716 | D03663 |
| 1 | hsa\_695 | D10731 | 0 | hsa\_767 | D03793 | 0 | hsa\_3716 | D10365 |
| 1 | hsa\_6916 | D01683 | 0 | hsa\_767 | D05095 | 0 | hsa\_3716 | D10125 |
| 1 | hsa\_6916 | D01684 | 0 | hsa\_767 | D10635 | 0 | hsa\_3716 | D10630 |
| 1 | hsa\_6916 | D03661 | 0 | hsa\_767 | D07269 | 0 | hsa\_3716 | D08393 |
| 1 | hsa\_6916 | D03663 | 0 | hsa\_767 | D00564 | 0 | hsa\_3716 | D06596 |
| 1 | hsa\_6916 | D04276 | 0 | hsa\_767 | D10308 | 0 | hsa\_3716 | D00355 |
| 1 | hsa\_6916 | D05502 | 0 | hsa\_767 | D10616 | 0 | hsa\_3716 | D08873 |
| 1 | hsa\_6916 | D08327 | 0 | hsa\_766 | D09690 | 0 | hsa\_3716 | D10254 |
| 1 | hsa\_6868 | D08859 | 0 | hsa\_766 | D03239 | 0 | hsa\_3620 | D06407 |
| 1 | hsa\_6850 | D09347 | 0 | hsa\_766 | D09970 | 0 | hsa\_3620 | D07134 |
| 1 | hsa\_6850 | D09348 | 0 | hsa\_766 | D06637 | 0 | hsa\_3620 | D01972 |
| 1 | hsa\_6795 | D08279 | 0 | hsa\_766 | D09728 | 0 | hsa\_3620 | D08631 |
| 1 | hsa\_6795 | D08344 | 0 | hsa\_766 | D08996 | 0 | hsa\_3620 | D10138 |
| 1 | hsa\_6790 | D08279 | 0 | hsa\_765 | D03745 | 0 | hsa\_3620 | D05502 |
| 1 | hsa\_6790 | D08344 | 0 | hsa\_765 | D06553 | 0 | hsa\_3615 | D09707 |
| 1 | hsa\_6790 | D10085 | 0 | hsa\_765 | D09718 | 0 | hsa\_3615 | D08279 |
| 1 | hsa\_6790 | D10086 | 0 | hsa\_765 | D10674 | 0 | hsa\_3615 | D07516 |
| 1 | hsa\_673 | D06272 | 0 | hsa\_765 | D02587 | 0 | hsa\_3615 | D01404 |
| 1 | hsa\_673 | D08524 | 0 | hsa\_765 | D00718 | 0 | hsa\_3615 | D07064 |
| 1 | hsa\_673 | D09996 | 0 | hsa\_765 | D10178 | 0 | hsa\_3615 | D00156 |
| 1 | hsa\_673 | D10064 | 0 | hsa\_765 | D09750 | 0 | hsa\_3615 | D10432 |
| 1 | hsa\_673 | D10104 | 0 | hsa\_765 | D03749 | 0 | hsa\_3615 | D10585 |
| 1 | hsa\_6716 | D00321 | 0 | hsa\_765 | D00749 | 0 | hsa\_3614 | D09718 |
| 1 | hsa\_6716 | D01134 | 0 | hsa\_763 | D09572 | 0 | hsa\_3614 | D04681 |
| 1 | hsa\_6716 | D04498 | 0 | hsa\_763 | D08616 | 0 | hsa\_3614 | D04368 |
| 1 | hsa\_6715 | D00321 | 0 | hsa\_763 | D03990 | 0 | hsa\_3614 | D04863 |
| 1 | hsa\_6715 | D01134 | 0 | hsa\_762 | D09033 | 0 | hsa\_3614 | D10157 |
| 1 | hsa\_6715 | D03107 | 0 | hsa\_762 | D10175 | 0 | hsa\_3614 | D07907 |
| 1 | hsa\_6715 | D03820 | 0 | hsa\_762 | D10315 | 0 | hsa\_3480 | D01581 |
| 1 | hsa\_6715 | D04498 | 0 | hsa\_762 | D10543 | 0 | hsa\_3480 | D08354 |
| 1 | hsa\_64816 | D09881 | 0 | hsa\_762 | D06596 | 0 | hsa\_3480 | D07141 |
| 1 | hsa\_64600 | D06283 | 0 | hsa\_762 | D09707 | 0 | hsa\_3480 | D02085 |
| 1 | hsa\_64600 | D08107 | 0 | hsa\_762 | D08279 | 0 | hsa\_3480 | D09679 |
| 1 | hsa\_64600 | D08221 | 0 | hsa\_762 | D08363 | 0 | hsa\_3480 | D00939 |
| 1 | hsa\_63928 | D00107 | 0 | hsa\_762 | D10062 | 0 | hsa\_3480 | D06378 |
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| 1 | hsa\_1312 | D00152 | 0 | hsa\_483 | D08094 | 0 | hsa\_1021 | D09020 |
| 1 | hsa\_1312 | D01259 | 0 | hsa\_483 | D01309 | 0 | hsa\_1021 | D03158 |
| 1 | hsa\_1312 | D03241 | 0 | hsa\_483 | D09780 | 0 | hsa\_1021 | D09920 |
| 1 | hsa\_1312 | D08369 | 0 | hsa\_483 | D01747 | 0 | hsa\_1021 | D04107 |
| 1 | hsa\_131 | D00707 | 0 | hsa\_483 | D05353 | 0 | hsa\_102 | D08351 |
| 1 | hsa\_130 | D00707 | 0 | hsa\_483 | D06645 | 0 | hsa\_102 | D06272 |
| 1 | hsa\_128 | D00707 | 0 | hsa\_483 | D06272 | 0 | hsa\_102 | D01747 |
| 1 | hsa\_127 | D00707 | 0 | hsa\_483 | D04014 | 0 | hsa\_102 | D10604 |
| 1 | hsa\_126129 | D05292 | 0 | hsa\_483 | D10255 | 0 | hsa\_102 | D10026 |
| 1 | hsa\_126 | D00707 | 0 | hsa\_483 | D08881 | 0 | hsa\_1019 | D08085 |
| 1 | hsa\_125 | D00707 | 0 | hsa\_482 | D10191 | 0 | hsa\_1019 | D05019 |
| 1 | hsa\_124975 | D02755 | 0 | hsa\_482 | D07338 | 0 | hsa\_1019 | D03208 |
| 1 | hsa\_124 | D00707 | 0 | hsa\_482 | D08688 | 0 | hsa\_1019 | D04628 |
| 1 | hsa\_115 | D01697 | 0 | hsa\_482 | D10319 | 0 | hsa\_1019 | D08102 |
| 1 | hsa\_114 | D01697 | 0 | hsa\_482 | D10381 | 0 | hsa\_1019 | D10179 |
| 1 | hsa\_113 | D01697 | 0 | hsa\_482 | D07581 | 0 | hsa\_1019 | D08107 |
| 1 | hsa\_11261 | D00107 | 0 | hsa\_482 | D04770 | 0 | hsa\_1019 | D03213 |
| 1 | hsa\_11261 | D00184 | 0 | hsa\_482 | D05032 | 0 | hsa\_10135 | D07615 |
| 1 | hsa\_11261 | D05480 | 0 | hsa\_482 | D07541 | 0 | hsa\_10135 | D10609 |
| 1 | hsa\_11261 | D08556 | 0 | hsa\_482 | D00123 | 0 | hsa\_10135 | D10382 |
| 1 | hsa\_11261 | D09033 | 0 | hsa\_482 | D03225 | 0 | hsa\_10135 | D09347 |
| 1 | hsa\_112399 | D10593 | 0 | hsa\_482 | D08668 | 0 | hsa\_10135 | D10229 |
| 1 | hsa\_112398 | D10593 | 0 | hsa\_482 | D00112 | 0 | hsa\_10135 | D10552 |
| 1 | hsa\_11238 | D01822 | 0 | hsa\_481 | D10026 | 0 | hsa\_10135 | D10674 |
| 1 | hsa\_11238 | D02441 | 0 | hsa\_481 | D10688 | 0 | hsa\_10135 | D08618 |
| 1 | hsa\_11238 | D03845 | 0 | hsa\_481 | D06637 | 0 | hsa\_10135 | D08344 |
| 1 | hsa\_11238 | D07871 | 0 | hsa\_481 | D10173 | 0 | hsa\_10135 | D04486 |
| 1 | hsa\_112 | D01697 | 0 | hsa\_481 | D07136 | 0 | hsa\_10135 | D04768 |
| 1 | hsa\_111 | D01697 | 0 | hsa\_481 | D08085 | 0 | hsa\_10135 | D03099 |
| 1 | hsa\_109 | D01697 | 0 | hsa\_481 | D03793 | 0 | hsa\_10039 | D08392 |
| 1 | hsa\_10846 | D00718 | 0 | hsa\_481 | D10060 | 0 | hsa\_10039 | D10224 |
| 1 | hsa\_10846 | D01220 | 0 | hsa\_481 | D10140 | 0 | hsa\_10039 | D10155 |
| 1 | hsa\_10846 | D01630 | 0 | hsa\_481 | D08062 | 0 | hsa\_10039 | D09731 |
| 1 | hsa\_10846 | D02218 | 0 | hsa\_481 | D06288 | 0 | hsa\_10039 | D04681 |
| 1 | hsa\_10846 | D06132 | 0 | hsa\_480 | D07135 | 0 | hsa\_10039 | D04151 |
| 1 | hsa\_10846 | D07089 | 0 | hsa\_480 | D03115 | 0 | hsa\_10039 | D07817 |
| 1 | hsa\_10846 | D07425 | 0 | hsa\_480 | D03260 | 0 | hsa\_10039 | D10155 |
| 1 | hsa\_10846 | D07439 | 0 | hsa\_480 | D07086 | 0 | hsa\_10039 | D07940 |
| 1 | hsa\_10846 | D07961 | 0 | hsa\_480 | D05096 | 0 | hsa\_10038 | D02755 |
| 1 | hsa\_10846 | D08238 | 0 | hsa\_480 | D10688 | 0 | hsa\_10038 | D09348 |
| 1 | hsa\_108 | D01697 | 0 | hsa\_480 | D03021 | 0 | hsa\_10038 | D08056 |
| 1 | hsa\_107 | D01697 | 0 | hsa\_480 | D03546 | 0 | hsa\_10038 | D00151 |
| 1 | hsa\_1021 | D10372 | 0 | hsa\_480 | D04696 | 0 | hsa\_10038 | D10432 |
| 1 | hsa\_1021 | D10652 | 0 | hsa\_478 | D09970 | 0 | hsa\_10038 | D05502 |
| 1 | hsa\_1021 | D10688 | 0 | hsa\_478 | D04964 | 0 | hsa\_10014 | D10319 |
| 1 | hsa\_102 | D09320 | 0 | hsa\_478 | D10103 | 0 | hsa\_10014 | D08870 |
| 1 | hsa\_1019 | D10372 | 0 | hsa\_478 | D09589 | 0 | hsa\_10014 | D04092 |
| 1 | hsa\_1019 | D10652 | 0 | hsa\_478 | D08349 | 0 | hsa\_10014 | D10659 |
| 1 | hsa\_1019 | D10688 | 0 | hsa\_478 | D07119 | 0 | hsa\_10014 | D10183 |
| 1 | hsa\_10135 | D09678 | 0 | hsa\_478 | D01220 | 0 | hsa\_10014 | D00151 |
| 1 | hsa\_10039 | D10079 | 0 | hsa\_478 | D01683 | 0 | hsa\_10014 | D10465 |
| 1 | hsa\_10039 | D10157 | 0 | hsa\_478 | D09951 | 0 | hsa\_10014 | D04685 |
| 1 | hsa\_10038 | D09692 | 0 | hsa\_478 | D03099 | 0 | hsa\_10013 | D10255 |
| 1 | hsa\_10038 | D10079 | 0 | hsa\_478 | D10514 | 0 | hsa\_10013 | D10515 |
| 1 | hsa\_10038 | D10140 | 0 | hsa\_478 | D09020 | 0 | hsa\_10013 | D05480 |
| 1 | hsa\_10038 | D10157 | 0 | hsa\_478 | D00749 | 0 | hsa\_10013 | D09678 |
| 1 | hsa\_10038 | D10732 | 0 | hsa\_478 | D09566 | 0 | hsa\_10013 | D05893 |
| 1 | hsa\_10038 | D10733 | 0 | hsa\_477 | D07974 | 0 | hsa\_10013 | D10365 |
| 1 | hsa\_10014 | D06637 | 0 | hsa\_477 | D08344 | 0 | hsa\_10013 | D07816 |
| 1 | hsa\_10014 | D08870 | 0 | hsa\_477 | D09756 | 0 | hsa\_10013 | D00749 |
| 1 | hsa\_10014 | D10019 | 0 | hsa\_477 | D07516 | 0 | hsa\_10013 | D06132 |
| 1 | hsa\_10014 | D10060 | 0 | hsa\_477 | D08393 | 0 | hsa\_10013 | D08086 |
| 1 | hsa\_10014 | D10084 | 0 | hsa\_477 | D03602 | 0 | hsa\_10013 | D01155 |
| 1 | hsa\_10014 | D10319 | 0 | hsa\_476 | D03241 | 0 | hsa\_10013 | D07969 |
| 1 | hsa\_10013 | D06637 | 0 | hsa\_476 | D08503 | 0 | hsa\_10013 | D06005 |
| 1 | hsa\_10013 | D08870 | 0 | hsa\_476 | D09920 | 0 | hsa\_10000 | D06239 |
| 1 | hsa\_10013 | D10019 | 0 | hsa\_476 | D00939 | 0 | hsa\_10000 | D05096 |
| 1 | hsa\_10013 | D10060 | 0 | hsa\_476 | D09347 | 0 | hsa\_10000 | D09783 |
| 1 | hsa\_10013 | D10084 | 0 | hsa\_476 | D00944 | 0 | hsa\_10000 | D10609 |
| 1 | hsa\_10013 | D10319 | 0 | hsa\_476 | D08881 | 0 | hsa\_10000 | D07147 |
| 1 | hsa\_10013 | D10661 | 0 | hsa\_47 | D09718 | 0 | hsa\_10000 | D10728 |
| 1 | hsa\_10000 | D10381 | 0 | hsa\_47 | D10585 | 0 | hsa\_10000 | D06402 |
| 1 | hsa\_10000 | D10382 | 0 | hsa\_47 | D08689 | 0 | hsa\_10000 | D02729 |
| 1 | hsa\_10000 | D10641 | 0 | hsa\_47 | D05033 | 0 | hsa\_10000 | D10674 |
| 1 | hsa\_10000 | D10674 | 0 | hsa\_47 | D10640 | 0 | hsa\_10000 | D05096 |

**Table II** The overall of drug-target interactions for ion channels class on *Dataset2*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **class** | **Targets** | **drugs** | **class** | **Targets** | **drugs** | **class** | **Targets** | **drugs** |
| 1 | hsa\_1080 | D00808 | 0 | hsa\_1080 | D04657 | 0 | hsa\_3736 | D10626 |
| 1 | hsa\_1134 | D00492 | 0 | hsa\_1080 | D09368 | 0 | hsa\_3736 | D00380 |
| 1 | hsa\_1134 | D00612 | 0 | hsa\_1080 | D01328 | 0 | hsa\_3736 | D00764 |
| 1 | hsa\_1134 | D00758 | 0 | hsa\_1080 | D08459 | 0 | hsa\_3736 | D00331 |
| 1 | hsa\_1134 | D00759 | 0 | hsa\_1080 | D03562 | 0 | hsa\_3736 | D08892 |
| 1 | hsa\_1134 | D00760 | 0 | hsa\_1080 | D00764 | 0 | hsa\_3736 | D00533 |
| 1 | hsa\_1134 | D00763 | 0 | hsa\_1080 | D08098 | 0 | hsa\_3736 | D02969 |
| 1 | hsa\_1134 | D00764 | 0 | hsa\_1080 | D02780 | 0 | hsa\_3736 | D00430 |
| 1 | hsa\_1134 | D00765 | 0 | hsa\_1080 | D07509 | 0 | hsa\_3736 | D00336 |
| 1 | hsa\_1134 | D00766 | 0 | hsa\_1080 | D00549 | 0 | hsa\_3736 | D08421 |
| 1 | hsa\_1134 | D00767 | 0 | hsa\_1080 | D00555 | 0 | hsa\_3736 | D04257 |
| 1 | hsa\_1134 | D02202 | 0 | hsa\_1080 | D00700 | 0 | hsa\_3736 | D08009 |
| 1 | hsa\_1134 | D02275 | 0 | hsa\_1080 | D07442 | 0 | hsa\_3736 | D05077 |
| 1 | hsa\_1134 | D02292 | 0 | hsa\_1080 | D01279 | 0 | hsa\_3736 | D04303 |
| 1 | hsa\_1134 | D02364 | 0 | hsa\_1080 | D08174 | 0 | hsa\_3736 | D07595 |
| 1 | hsa\_1134 | D04303 | 0 | hsa\_1080 | D06652 | 0 | hsa\_3736 | D00399 |
| 1 | hsa\_1134 | D05703 | 0 | hsa\_1080 | D02292 | 0 | hsa\_3736 | D06653 |
| 1 | hsa\_1134 | D07272 | 0 | hsa\_1080 | D02347 | 0 | hsa\_3736 | D02096 |
| 1 | hsa\_1134 | D08138 | 0 | hsa\_1080 | D07971 | 0 | hsa\_3736 | D00848 |
| 1 | hsa\_1134 | D08655 | 0 | hsa\_1080 | D00763 | 0 | hsa\_3736 | D03742 |
| 1 | hsa\_1135 | D00612 | 0 | hsa\_1080 | D01744 | 0 | hsa\_3736 | D07442 |
| 1 | hsa\_1135 | D02202 | 0 | hsa\_1080 | D04657 | 0 | hsa\_3736 | D03037 |
| 1 | hsa\_1135 | D02364 | 0 | hsa\_1080 | D01758 | 0 | hsa\_3736 | D08448 |
| 1 | hsa\_1135 | D08138 | 0 | hsa\_1080 | D00643 | 0 | hsa\_3736 | D07971 |
| 1 | hsa\_1136 | D00612 | 0 | hsa\_1080 | D02347 | 0 | hsa\_3736 | D00760 |
| 1 | hsa\_1136 | D02202 | 0 | hsa\_1080 | D07442 | 0 | hsa\_3736 | D02594 |
| 1 | hsa\_1136 | D02364 | 0 | hsa\_1080 | D07881 | 0 | hsa\_3736 | D01593 |
| 1 | hsa\_1136 | D08138 | 0 | hsa\_1080 | D00557 | 0 | hsa\_3736 | D01071 |
| 1 | hsa\_1137 | D00612 | 0 | hsa\_1080 | D01293 | 0 | hsa\_3736 | D00387 |
| 1 | hsa\_1137 | D02202 | 0 | hsa\_1080 | D07845 | 0 | hsa\_3736 | D00430 |
| 1 | hsa\_1137 | D02364 | 0 | hsa\_1080 | D08964 | 0 | hsa\_3736 | D00331 |
| 1 | hsa\_1137 | D06282 | 0 | hsa\_1080 | D06204 | 0 | hsa\_3741 | D08596 |
| 1 | hsa\_1137 | D08138 | 0 | hsa\_1080 | D10626 | 0 | hsa\_3741 | D04226 |
| 1 | hsa\_1137 | D08669 | 0 | hsa\_1080 | D07993 | 0 | hsa\_3741 | D07845 |
| 1 | hsa\_1137 | D08935 | 0 | hsa\_1080 | D01408 | 0 | hsa\_3741 | D02410 |
| 1 | hsa\_1137 | D08987 | 0 | hsa\_1080 | D00199 | 0 | hsa\_3741 | D07552 |
| 1 | hsa\_1137 | D09367 | 0 | hsa\_1080 | D00329 | 0 | hsa\_3741 | D00700 |
| 1 | hsa\_1137 | D09368 | 0 | hsa\_1080 | D00280 | 0 | hsa\_3741 | D00701 |
| 1 | hsa\_1137 | D09382 | 0 | hsa\_1080 | D00294 | 0 | hsa\_3741 | D10613 |
| 1 | hsa\_1137 | D09383 | 0 | hsa\_1134 | D00555 | 0 | hsa\_3741 | D09539 |
| 1 | hsa\_1137 | D10111 | 0 | hsa\_1134 | D08421 | 0 | hsa\_3741 | D05714 |
| 1 | hsa\_1137 | D10112 | 0 | hsa\_1134 | D08964 | 0 | hsa\_3741 | D00457 |
| 1 | hsa\_1138 | D00612 | 0 | hsa\_1134 | D04300 | 0 | hsa\_3741 | D05703 |
| 1 | hsa\_1138 | D02202 | 0 | hsa\_1134 | D00550 | 0 | hsa\_3741 | D02220 |
| 1 | hsa\_1138 | D02364 | 0 | hsa\_1134 | D07326 | 0 | hsa\_3741 | D00506 |
| 1 | hsa\_1138 | D08138 | 0 | hsa\_1134 | D08669 | 0 | hsa\_3741 | D00693 |
| 1 | hsa\_1139 | D00612 | 0 | hsa\_1134 | D04882 | 0 | hsa\_3741 | D02910 |
| 1 | hsa\_1139 | D02202 | 0 | hsa\_1134 | D01514 | 0 | hsa\_3741 | D08116 |
| 1 | hsa\_1139 | D02364 | 0 | hsa\_1134 | D03679 | 0 | hsa\_3741 | D00537 |
| 1 | hsa\_1139 | D08138 | 0 | hsa\_1134 | D05028 | 0 | hsa\_3741 | D01744 |
| 1 | hsa\_1139 | D10613 | 0 | hsa\_1134 | D08690 | 0 | hsa\_3741 | D07999 |
| 1 | hsa\_1139 | D10626 | 0 | hsa\_1134 | D03492 | 0 | hsa\_3741 | D09367 |
| 1 | hsa\_1139 | D10693 | 0 | hsa\_1134 | D07283 | 0 | hsa\_3741 | D08421 |
| 1 | hsa\_1139 | D10702 | 0 | hsa\_1134 | D00637 | 0 | hsa\_3741 | D06653 |
| 1 | hsa\_1140 | D00492 | 0 | hsa\_1134 | D00766 | 0 | hsa\_3741 | D04849 |
| 1 | hsa\_1140 | D00611 | 0 | hsa\_1134 | D07447 | 0 | hsa\_3741 | D04882 |
| 1 | hsa\_1140 | D00612 | 0 | hsa\_1134 | D02696 | 0 | hsa\_3741 | D04048 |
| 1 | hsa\_1140 | D00758 | 0 | hsa\_1134 | D00631 | 0 | hsa\_3741 | D08215 |
| 1 | hsa\_1140 | D00759 | 0 | hsa\_1134 | D03655 | 0 | hsa\_3741 | D07552 |
| 1 | hsa\_1140 | D00760 | 0 | hsa\_1134 | D08116 | 0 | hsa\_3741 | D00499 |
| 1 | hsa\_1140 | D00763 | 0 | hsa\_1134 | D00375 | 0 | hsa\_3741 | D05714 |
| 1 | hsa\_1140 | D00764 | 0 | hsa\_1134 | D04282 | 0 | hsa\_3741 | D00552 |
| 1 | hsa\_1140 | D00765 | 0 | hsa\_1134 | D10370 | 0 | hsa\_3741 | D08282 |
| 1 | hsa\_1140 | D00766 | 0 | hsa\_1134 | D00636 | 0 | hsa\_3741 | D08356 |
| 1 | hsa\_1140 | D00767 | 0 | hsa\_1134 | D08009 | 0 | hsa\_3741 | D01278 |
| 1 | hsa\_1140 | D02202 | 0 | hsa\_1134 | D05453 | 0 | hsa\_3741 | D01104 |
| 1 | hsa\_1140 | D02207 | 0 | hsa\_1134 | D00766 | 0 | hsa\_3741 | D00848 |
| 1 | hsa\_1140 | D02275 | 0 | hsa\_1134 | D00438 | 0 | hsa\_3741 | D05028 |
| 1 | hsa\_1140 | D02292 | 0 | hsa\_1134 | D01553 | 0 | hsa\_3741 | D08001 |
| 1 | hsa\_1140 | D02364 | 0 | hsa\_1134 | D03100 | 0 | hsa\_3741 | D00552 |
| 1 | hsa\_1140 | D04303 | 0 | hsa\_1134 | D00549 | 0 | hsa\_3741 | D07784 |
| 1 | hsa\_1140 | D05703 | 0 | hsa\_1134 | D00280 | 0 | hsa\_3741 | D10693 |
| 1 | hsa\_1140 | D07272 | 0 | hsa\_1134 | D00710 | 0 | hsa\_3741 | D08217 |
| 1 | hsa\_1140 | D08138 | 0 | hsa\_1134 | D00375 | 0 | hsa\_3741 | D04741 |
| 1 | hsa\_1140 | D08655 | 0 | hsa\_1134 | D01455 | 0 | hsa\_3741 | D07058 |
| 1 | hsa\_1141 | D00611 | 0 | hsa\_1134 | D07845 | 0 | hsa\_3741 | D01278 |
| 1 | hsa\_1141 | D00612 | 0 | hsa\_1134 | D02364 | 0 | hsa\_3752 | D10111 |
| 1 | hsa\_1141 | D02202 | 0 | hsa\_1134 | D01279 | 0 | hsa\_3752 | D09383 |
| 1 | hsa\_1141 | D02204 | 0 | hsa\_1134 | D08217 | 0 | hsa\_3752 | D00551 |
| 1 | hsa\_1141 | D02364 | 0 | hsa\_1134 | D08098 | 0 | hsa\_3752 | D01744 |
| 1 | hsa\_1141 | D06282 | 0 | hsa\_1134 | D01758 | 0 | hsa\_3752 | D02283 |
| 1 | hsa\_1141 | D08138 | 0 | hsa\_1134 | D03914 | 0 | hsa\_3752 | D03914 |
| 1 | hsa\_1141 | D08669 | 0 | hsa\_1134 | D02537 | 0 | hsa\_3752 | D04728 |
| 1 | hsa\_1141 | D08935 | 0 | hsa\_1134 | D02594 | 0 | hsa\_3752 | D07993 |
| 1 | hsa\_1141 | D08987 | 0 | hsa\_1134 | D02385 | 0 | hsa\_3752 | D05453 |
| 1 | hsa\_1141 | D09367 | 0 | hsa\_1134 | D00706 | 0 | hsa\_3752 | D09368 |
| 1 | hsa\_1141 | D09368 | 0 | hsa\_1134 | D08138 | 0 | hsa\_3752 | D08100 |
| 1 | hsa\_1141 | D09382 | 0 | hsa\_1134 | D02410 | 0 | hsa\_3752 | D04918 |
| 1 | hsa\_1141 | D09383 | 0 | hsa\_1134 | D04048 | 0 | hsa\_3752 | D01245 |
| 1 | hsa\_1141 | D10111 | 0 | hsa\_1134 | D05714 | 0 | hsa\_3752 | D07993 |
| 1 | hsa\_1141 | D10112 | 0 | hsa\_1134 | D00695 | 0 | hsa\_3752 | D00380 |
| 1 | hsa\_1142 | D00611 | 0 | hsa\_1134 | D01293 | 0 | hsa\_3752 | D02780 |
| 1 | hsa\_1142 | D00612 | 0 | hsa\_1134 | D08596 | 0 | hsa\_3752 | D00470 |
| 1 | hsa\_1142 | D02202 | 0 | hsa\_1135 | D08283 | 0 | hsa\_3752 | D08935 |
| 1 | hsa\_1142 | D02204 | 0 | hsa\_1135 | D04955 | 0 | hsa\_3752 | D01245 |
| 1 | hsa\_1142 | D02364 | 0 | hsa\_1135 | D04257 | 0 | hsa\_3752 | D08507 |
| 1 | hsa\_1142 | D08138 | 0 | hsa\_1135 | D08282 | 0 | hsa\_3752 | D01278 |
| 1 | hsa\_1143 | D00611 | 0 | hsa\_1135 | D00365 | 0 | hsa\_3752 | D06517 |
| 1 | hsa\_1143 | D00612 | 0 | hsa\_1135 | D01514 | 0 | hsa\_3752 | D00700 |
| 1 | hsa\_1143 | D02202 | 0 | hsa\_1135 | D00532 | 0 | hsa\_3752 | D00430 |
| 1 | hsa\_1143 | D02204 | 0 | hsa\_1135 | D00636 | 0 | hsa\_3752 | D05714 |
| 1 | hsa\_1143 | D02364 | 0 | hsa\_1135 | D02202 | 0 | hsa\_3752 | D00329 |
| 1 | hsa\_1143 | D08138 | 0 | hsa\_1135 | D08127 | 0 | hsa\_3752 | D00304 |
| 1 | hsa\_1144 | D00492 | 0 | hsa\_1135 | D00693 | 0 | hsa\_3752 | D03155 |
| 1 | hsa\_1144 | D00611 | 0 | hsa\_1135 | D00767 | 0 | hsa\_3752 | D00376 |
| 1 | hsa\_1144 | D00612 | 0 | hsa\_1135 | D01254 | 0 | hsa\_3752 | D07894 |
| 1 | hsa\_1144 | D00758 | 0 | hsa\_1135 | D09789 | 0 | hsa\_3752 | D00531 |
| 1 | hsa\_1144 | D00759 | 0 | hsa\_1135 | D01303 | 0 | hsa\_3752 | D03492 |
| 1 | hsa\_1144 | D00760 | 0 | hsa\_1135 | D09789 | 0 | hsa\_3752 | D08655 |
| 1 | hsa\_1144 | D00763 | 0 | hsa\_1135 | D04226 | 0 | hsa\_3752 | D00387 |
| 1 | hsa\_1144 | D00764 | 0 | hsa\_1135 | D08667 | 0 | hsa\_3752 | D00701 |
| 1 | hsa\_1144 | D00765 | 0 | hsa\_1135 | D00331 | 0 | hsa\_3752 | D07185 |
| 1 | hsa\_1144 | D00766 | 0 | hsa\_1135 | D09612 | 0 | hsa\_3752 | D00250 |
| 1 | hsa\_1144 | D00767 | 0 | hsa\_1135 | D00549 | 0 | hsa\_3752 | D07520 |
| 1 | hsa\_1144 | D02202 | 0 | hsa\_1135 | D08138 | 0 | hsa\_3752 | D00636 |
| 1 | hsa\_1144 | D02207 | 0 | hsa\_1135 | D07185 | 0 | hsa\_3752 | D02220 |
| 1 | hsa\_1144 | D02275 | 0 | hsa\_1135 | D05077 | 0 | hsa\_3752 | D08690 |
| 1 | hsa\_1144 | D02292 | 0 | hsa\_1135 | D07993 | 0 | hsa\_3752 | D00376 |
| 1 | hsa\_1144 | D02364 | 0 | hsa\_1135 | D02220 | 0 | hsa\_3752 | D04882 |
| 1 | hsa\_1144 | D04303 | 0 | hsa\_1135 | D10627 | 0 | hsa\_3752 | D00765 |
| 1 | hsa\_1144 | D05703 | 0 | hsa\_1135 | D07845 | 0 | hsa\_3752 | D02385 |
| 1 | hsa\_1144 | D07272 | 0 | hsa\_1135 | D08892 | 0 | hsa\_3752 | D08459 |
| 1 | hsa\_1144 | D08138 | 0 | hsa\_1135 | D07845 | 0 | hsa\_3752 | D02969 |
| 1 | hsa\_1144 | D08655 | 0 | hsa\_1135 | D02347 | 0 | hsa\_3757 | D01245 |
| 1 | hsa\_1145 | D00492 | 0 | hsa\_1135 | D01173 | 0 | hsa\_3757 | D07978 |
| 1 | hsa\_1145 | D00611 | 0 | hsa\_1135 | D04882 | 0 | hsa\_3757 | D01254 |
| 1 | hsa\_1145 | D00612 | 0 | hsa\_1135 | D00553 | 0 | hsa\_3757 | D01810 |
| 1 | hsa\_1145 | D00758 | 0 | hsa\_1135 | D01243 | 0 | hsa\_3757 | D01408 |
| 1 | hsa\_1145 | D00759 | 0 | hsa\_1135 | D06656 | 0 | hsa\_3757 | D00643 |
| 1 | hsa\_1145 | D00760 | 0 | hsa\_1135 | D01657 | 0 | hsa\_3757 | D06172 |
| 1 | hsa\_1145 | D00763 | 0 | hsa\_1136 | D01554 | 0 | hsa\_3757 | D03742 |
| 1 | hsa\_1145 | D00764 | 0 | hsa\_1136 | D03492 | 0 | hsa\_3757 | D00553 |
| 1 | hsa\_1145 | D00765 | 0 | hsa\_1136 | D00611 | 0 | hsa\_3757 | D00631 |
| 1 | hsa\_1145 | D00766 | 0 | hsa\_1136 | D08667 | 0 | hsa\_3757 | D01657 |
| 1 | hsa\_1145 | D00767 | 0 | hsa\_1136 | D00267 | 0 | hsa\_3757 | D00470 |
| 1 | hsa\_1145 | D02202 | 0 | hsa\_1136 | D06517 | 0 | hsa\_3757 | D00331 |
| 1 | hsa\_1145 | D02207 | 0 | hsa\_1136 | D07881 | 0 | hsa\_3757 | D00293 |
| 1 | hsa\_1145 | D02275 | 0 | hsa\_1136 | D00765 | 0 | hsa\_3757 | D00555 |
| 1 | hsa\_1145 | D02292 | 0 | hsa\_1136 | D03742 | 0 | hsa\_3757 | D08101 |
| 1 | hsa\_1145 | D02364 | 0 | hsa\_1136 | D02220 | 0 | hsa\_3757 | D02780 |
| 1 | hsa\_1145 | D04303 | 0 | hsa\_1136 | D05453 | 0 | hsa\_3757 | D00531 |
| 1 | hsa\_1145 | D05703 | 0 | hsa\_1136 | D09789 | 0 | hsa\_3757 | D07185 |
| 1 | hsa\_1145 | D07272 | 0 | hsa\_1136 | D02537 | 0 | hsa\_3757 | D01303 |
| 1 | hsa\_1145 | D08138 | 0 | hsa\_1136 | D03746 | 0 | hsa\_3757 | D02252 |
| 1 | hsa\_1145 | D08655 | 0 | hsa\_1136 | D02696 | 0 | hsa\_3757 | D00611 |
| 1 | hsa\_1146 | D00492 | 0 | hsa\_1136 | D06282 | 0 | hsa\_3757 | D01268 |
| 1 | hsa\_1146 | D00611 | 0 | hsa\_1136 | D10702 | 0 | hsa\_3757 | D01372 |
| 1 | hsa\_1146 | D00612 | 0 | hsa\_1136 | D04257 | 0 | hsa\_3757 | D10626 |
| 1 | hsa\_1146 | D00758 | 0 | hsa\_1136 | D07283 | 0 | hsa\_3757 | D04728 |
| 1 | hsa\_1146 | D00759 | 0 | hsa\_1136 | D01316 | 0 | hsa\_3757 | D08892 |
| 1 | hsa\_1146 | D00760 | 0 | hsa\_1136 | D08458 | 0 | hsa\_3757 | D02202 |
| 1 | hsa\_1146 | D00763 | 0 | hsa\_1136 | D04048 | 0 | hsa\_3757 | D07845 |
| 1 | hsa\_1146 | D00764 | 0 | hsa\_1136 | D00551 | 0 | hsa\_3757 | D07962 |
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| 1 | hsa\_776 | D07943 | 0 | hsa\_2904 | D08935 | 0 | hsa\_9254 | D07881 |
| 1 | hsa\_776 | D08009 | 0 | hsa\_2904 | D00808 | 0 | hsa\_9254 | D02716 |
| 1 | hsa\_776 | D08111 | 0 | hsa\_2904 | D01479 | 0 | hsa\_9254 | D08481 |
| 1 | hsa\_776 | D08155 | 0 | hsa\_2904 | D09917 | 0 | hsa\_9254 | D04955 |
| 1 | hsa\_776 | D08270 | 0 | hsa\_2904 | D08669 | 0 | hsa\_9254 | D07784 |
| 1 | hsa\_776 | D08340 | 0 | hsa\_2904 | D09215 | 0 | hsa\_9254 | D04918 |
| 1 | hsa\_776 | D08892 | 0 | hsa\_2904 | D06517 | 0 | hsa\_9254 | D07442 |
| 1 | hsa\_776 | D09789 | 0 | hsa\_2904 | D00380 | 0 | hsa\_9254 | D02410 |
| 1 | hsa\_778 | D00619 | 0 | hsa\_2904 | D08669 | 0 | hsa\_9254 | D01104 |
| 1 | hsa\_778 | D00631 | 0 | hsa\_2904 | D06392 | 0 | hsa\_9254 | D08458 |
| 1 | hsa\_778 | D01104 | 0 | hsa\_2904 | D08435 | 0 | hsa\_9254 | D04048 |
| 1 | hsa\_778 | D01145 | 0 | hsa\_2904 | D03547 | 0 | hsa\_9254 | D00733 |
| 1 | hsa\_778 | D01173 | 0 | hsa\_2904 | D10370 | 0 | hsa\_9254 | D08356 |
| 1 | hsa\_778 | D01553 | 0 | hsa\_2904 | D00064 | 0 | hsa\_9254 | D04282 |
| 1 | hsa\_778 | D01562 | 0 | hsa\_2904 | D10112 | 0 | hsa\_9254 | D08138 |
| 1 | hsa\_778 | D01604 | 0 | hsa\_2904 | D00399 | 0 | hsa\_9254 | D08009 |
| 1 | hsa\_778 | D01849 | 0 | hsa\_2904 | D01785 | 0 | hsa\_9254 | D01173 |
| 1 | hsa\_778 | D01908 | 0 | hsa\_2904 | D01856 | 0 | hsa\_9254 | D02969 |
| 1 | hsa\_778 | D01969 | 0 | hsa\_2904 | D10111 | 0 | hsa\_9254 | D00637 |
| 1 | hsa\_778 | D02045 | 0 | hsa\_2904 | D00375 | 0 | hsa\_9254 | D10111 |
| 1 | hsa\_778 | D02537 | 0 | hsa\_2904 | D03547 | 0 | hsa\_9254 | D08155 |
| 1 | hsa\_778 | D03655 | 0 | hsa\_2904 | D08060 | 0 | hsa\_9254 | D05145 |
| 1 | hsa\_778 | D03914 | 0 | hsa\_2905 | D01479 | 0 | hsa\_9254 | D10111 |
| 1 | hsa\_778 | D04657 | 0 | hsa\_2905 | D00550 | 0 | hsa\_9254 | D01071 |
| 1 | hsa\_778 | D05442 | 0 | hsa\_2905 | D00418 | 0 | hsa\_9254 | D01071 |
| 1 | hsa\_778 | D07185 | 0 | hsa\_2905 | D00303 | 0 | hsa\_9254 | D08009 |
| 1 | hsa\_778 | D07450 | 0 | hsa\_2905 | D02347 | 0 | hsa\_9254 | D02220 |
| 1 | hsa\_778 | D07494 | 0 | hsa\_2905 | D06172 | 0 | hsa\_9254 | D08111 |
| 1 | hsa\_778 | D07509 | 0 | hsa\_2905 | D01303 | 0 | hsa\_9254 | D07979 |
| 1 | hsa\_778 | D07520 | 0 | hsa\_2905 | D05482 | 0 | hsa\_9254 | D02275 |
| 1 | hsa\_778 | D07845 | 0 | hsa\_2905 | D00636 | 0 | hsa\_9254 | D00765 |
| 1 | hsa\_778 | D07886 | 0 | hsa\_2905 | D08215 | 0 | hsa\_9254 | D08481 |
| 1 | hsa\_778 | D07943 | 0 | hsa\_2905 | D09918 | 0 | hsa\_9254 | D04300 |
| 1 | hsa\_778 | D08009 | 0 | hsa\_2905 | D06653 | 0 | hsa\_9254 | D00758 |
| 1 | hsa\_778 | D08111 | 0 | hsa\_2905 | D00336 | 0 | hsa\_9254 | D04257 |
| 1 | hsa\_778 | D08155 | 0 | hsa\_2905 | D05077 | 0 | hsa\_9254 | D00311 |
| 1 | hsa\_778 | D08270 | 0 | hsa\_2905 | D06172 | 0 | hsa\_9254 | D01604 |
| 1 | hsa\_778 | D08340 | 0 | hsa\_2905 | D08669 | 0 | hsa\_9254 | D01316 |
| 1 | hsa\_778 | D08892 | 0 | hsa\_2905 | D02103 | 0 | hsa\_9254 | D01604 |
| 1 | hsa\_778 | D09789 | 0 | hsa\_2905 | D00375 | 0 | hsa\_9254 | D03100 |
| 1 | hsa\_779 | D00438 | 0 | hsa\_2905 | D02220 | 0 | hsa\_9254 | D05077 |
| 1 | hsa\_779 | D00631 | 0 | hsa\_2905 | D09917 | 0 | hsa\_9254 | D03037 |
| 1 | hsa\_779 | D01104 | 0 | hsa\_2905 | D05077 | 0 | hsa\_9254 | D02103 |
| 1 | hsa\_779 | D01145 | 0 | hsa\_2906 | D00386 | 0 | hsa\_9254 | D00555 |
| 1 | hsa\_779 | D01173 | 0 | hsa\_2906 | D02096 | 0 | hsa\_9254 | D07845 |
| 1 | hsa\_779 | D01553 | 0 | hsa\_2906 | D07845 | 0 | hsa\_9254 | D02616 |
| 1 | hsa\_779 | D01562 | 0 | hsa\_2906 | D01145 | 0 | hsa\_9254 | D03746 |
| 1 | hsa\_779 | D01604 | 0 | hsa\_2906 | D00011 | 0 | hsa\_93589 | D00250 |
| 1 | hsa\_779 | D01849 | 0 | hsa\_2906 | D07993 | 0 | hsa\_93589 | D10470 |
| 1 | hsa\_779 | D01908 | 0 | hsa\_2906 | D01849 | 0 | hsa\_93589 | D01408 |
| 1 | hsa\_779 | D02045 | 0 | hsa\_2906 | D08217 | 0 | hsa\_93589 | D02910 |
| 1 | hsa\_779 | D02537 | 0 | hsa\_2906 | D00533 | 0 | hsa\_93589 | D08669 |
| 1 | hsa\_779 | D03655 | 0 | hsa\_2906 | D06392 | 0 | hsa\_93589 | D01303 |
| 1 | hsa\_779 | D03914 | 0 | hsa\_2906 | D06392 | 0 | hsa\_93589 | D05453 |
| 1 | hsa\_779 | D04657 | 0 | hsa\_2906 | D04048 | 0 | hsa\_93589 | D00470 |
| 1 | hsa\_779 | D05442 | 0 | hsa\_2906 | D04849 | 0 | hsa\_93589 | D03914 |
| 1 | hsa\_779 | D07185 | 0 | hsa\_2906 | D04849 | 0 | hsa\_93589 | D00438 |
| 1 | hsa\_779 | D07450 | 0 | hsa\_2906 | D01303 | 0 | hsa\_93589 | D02696 |
| 1 | hsa\_779 | D07494 | 0 | hsa\_2906 | D10693 | 0 | hsa\_93589 | D01758 |
| 1 | hsa\_779 | D07509 | 0 | hsa\_2906 | D00808 | 0 | hsa\_93589 | D10613 |
| 1 | hsa\_779 | D07520 | 0 | hsa\_2906 | D00064 | 0 | hsa\_93589 | D01657 |
| 1 | hsa\_779 | D07845 | 0 | hsa\_2906 | D08448 | 0 | hsa\_93589 | D07509 |
| 1 | hsa\_779 | D07886 | 0 | hsa\_2906 | D07678 | 0 | hsa\_93589 | D00758 |
| 1 | hsa\_779 | D07943 | 0 | hsa\_2906 | D06653 | 0 | hsa\_93589 | D00549 |
| 1 | hsa\_779 | D08009 | 0 | hsa\_2906 | D07442 | 0 | hsa\_93589 | D07978 |
| 1 | hsa\_779 | D08111 | 0 | hsa\_2906 | D04955 | 0 | hsa\_93589 | D00293 |
| 1 | hsa\_779 | D08155 | 0 | hsa\_2906 | D00553 | 0 | hsa\_93589 | D02616 |
| 1 | hsa\_779 | D08270 | 0 | hsa\_2906 | D03732 | 0 | hsa\_93589 | D08490 |
| 1 | hsa\_779 | D08340 | 0 | hsa\_2906 | D06653 | 0 | hsa\_93589 | D10702 |
| 1 | hsa\_779 | D08892 | 0 | hsa\_2906 | D04657 | 0 | hsa\_93589 | D00551 |
| 1 | hsa\_779 | D09789 | 0 | hsa\_2906 | D02274 | 0 | hsa\_93589 | D00365 |
| 1 | hsa\_781 | D02716 | 0 | hsa\_3736 | D02594 | 0 | hsa\_93589 | D00267 |
| 1 | hsa\_781 | D09539 | 0 | hsa\_3736 | D10626 | 0 | hsa\_93589 | D07552 |
| 1 | hsa\_79054 | D00064 | 0 | hsa\_3736 | D02910 | 0 | hsa\_93589 | D02096 |
| 1 | hsa\_79054 | D04849 | 0 | hsa\_3736 | D00329 | 0 | hsa\_93589 | D06146 |
| 1 | hsa\_79054 | D04918 | 0 | hsa\_3736 | D07494 | 0 | hsa\_93589 | D08987 |
| 1 | hsa\_8001 | D00011 | 0 | hsa\_3736 | D05447 | 0 | hsa\_93589 | D08217 |
| 1 | hsa\_8645 | D08422 | 0 | hsa\_3736 | D02780 | 0 | hsa\_93589 | D08459 |
| 1 | hsa\_8911 | D00553 | 0 | hsa\_3736 | D08458 | 0 | hsa\_93589 | D09035 |
| 1 | hsa\_8911 | D01243 | 0 | hsa\_3736 | D05028 | 0 | hsa\_93589 | D01657 |
| 1 | hsa\_8911 | D01303 | 0 | hsa\_3736 | D08048 | 0 | hsa\_93589 | D00399 |
| 1 | hsa\_8911 | D07971 | 0 | hsa\_3736 | D08145 | 0 | hsa\_93589 | D02347 |
| 1 | hsa\_8911 | D08217 | 0 | hsa\_3736 | D00500 | 0 | hsa\_93589 | D00376 |
| 1 | hsa\_8912 | D01303 | 0 | hsa\_3736 | D03492 | 0 | hsa\_93589 | D04728 |
| 1 | hsa\_8912 | D07971 | 0 | hsa\_3736 | D03037 | 0 | hsa\_93589 | D01479 |
| 1 | hsa\_8912 | D08217 | 0 | hsa\_3736 | D01657 | 0 | hsa\_93589 | D00533 |
| 1 | hsa\_8913 | D01303 | 0 | hsa\_3736 | D01564 | 0 | hsa\_93589 | D08283 |
| 1 | hsa\_8913 | D07971 | 0 | hsa\_3736 | D04303 | 0 | hsa\_93589 | D07999 |
| 1 | hsa\_8913 | D08217 | 0 | hsa\_3736 | D05442 | 0 | hsa\_93589 | D00225 |
| 1 | hsa\_8973 | D00612 | 0 | hsa\_3736 | D00098 | 0 | hsa\_93589 | D10112 |
| 1 | hsa\_8973 | D02202 | 0 | hsa\_3736 | D00553 | 0 | hsa\_93589 | D07943 |
| 1 | hsa\_8973 | D02364 | 0 | hsa\_3736 | D00550 | 0 | hsa\_93589 | D01245 |
| 1 | hsa\_8973 | D08138 | 0 | hsa\_3736 | D00555 | 0 | hsa\_93589 | D04905 |
| 1 | hsa\_8989 | D00098 | 0 | hsa\_3736 | D08101 | 0 | hsa\_93589 | D07999 |
| 1 | hsa\_8989 | D06392 | 0 | hsa\_3736 | D04955 | 0 | hsa\_93589 | D05447 |
| 1 | hsa\_9254 | D02716 | 0 | hsa\_3736 | D01173 | 0 | hsa\_93589 | D00555 |
| 1 | hsa\_9254 | D09539 | 0 | hsa\_3736 | D05442 | 0 | hsa\_93589 | D01292 |
| 1 | hsa\_93589 | D02716 | 0 | hsa\_3736 | D07450 | 0 | hsa\_93589 | D07552 |
| 1 | hsa\_93589 | D09539 | 0 | hsa\_3736 | D01479 | 0 | hsa\_93589 | D00695 |

Table III The overall of drug-target interactions for GPCRs class on *Dataset2*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **class** | **Targets** | **Drugs** | **class** | **Targets** | **Drugs** | **class** | **Targets** | **Drugs** |
| 1 | hsa\_80834 | D00025 | 0 | hsa\_5734 | D01336 | 0 | hsa\_150 | D00669 |
| 1 | hsa\_134 | D00045 | 0 | hsa\_3062 | D10424 | 0 | hsa\_6752 | D02205 |
| 1 | hsa\_2554 | D00058 | 0 | hsa\_59340 | D07463 | 0 | hsa\_2862 | D08687 |
| 1 | hsa\_2555 | D00058 | 0 | hsa\_4988 | D07125 | 0 | hsa\_1131 | D01355 |
| 1 | hsa\_2556 | D00058 | 0 | hsa\_3274 | D00841 | 0 | hsa\_2557 | D05008 |
| 1 | hsa\_2557 | D00058 | 0 | hsa\_4889 | D10170 | 0 | hsa\_5143 | D07831 |
| 1 | hsa\_2558 | D00058 | 0 | hsa\_1814 | D06569 | 0 | hsa\_10203 | D08595 |
| 1 | hsa\_2559 | D00058 | 0 | hsa\_10280 | D03212 | 0 | hsa\_152 | D02238 |
| 1 | hsa\_2560 | D00058 | 0 | hsa\_5142 | D02681 | 0 | hsa\_2557 | D06633 |
| 1 | hsa\_2561 | D00058 | 0 | hsa\_2567 | D02893 | 0 | hsa\_554 | D03014 |
| 1 | hsa\_2562 | D00058 | 0 | hsa\_624 | D02208 | 0 | hsa\_2562 | D01592 |
| 1 | hsa\_2563 | D00058 | 0 | hsa\_5144 | D01213 | 0 | hsa\_4987 | D01399 |
| 1 | hsa\_2564 | D00058 | 0 | hsa\_3360 | D01955 | 0 | hsa\_10800 | D10516 |
| 1 | hsa\_2565 | D00058 | 0 | hsa\_2798 | D08041 | 0 | hsa\_1814 | D01101 |
| 1 | hsa\_2566 | D00058 | 0 | hsa\_552 | D08474 | 0 | hsa\_6571 | D04501 |
| 1 | hsa\_2567 | D00058 | 0 | hsa\_155 | D08560 | 0 | hsa\_5142 | D04888 |
| 1 | hsa\_2568 | D00058 | 0 | hsa\_5143 | D02676 | 0 | hsa\_4543 | D00249 |
| 1 | hsa\_55879 | D00058 | 0 | hsa\_2554 | D05575 | 0 | hsa\_624 | D00778 |
| 1 | hsa\_146 | D00076 | 0 | hsa\_1131 | D01347 | 0 | hsa\_151 | D00485 |
| 1 | hsa\_147 | D00076 | 0 | hsa\_146 | D01898 | 0 | hsa\_6344 | D10219 |
| 1 | hsa\_148 | D00076 | 0 | hsa\_2566 | D05429 | 0 | hsa\_2561 | D04611 |
| 1 | hsa\_5732 | D00079 | 0 | hsa\_1129 | D02192 | 0 | hsa\_170572 | D01362 |
| 1 | hsa\_5737 | D00081 | 0 | hsa\_3757 | D08353 | 0 | hsa\_59340 | D01504 |
| 1 | hsa\_5021 | D00089 | 0 | hsa\_1909 | D03360 | 0 | hsa\_846 | D08157 |
| 1 | hsa\_146 | D00095 | 0 | hsa\_9177 | D07312 | 0 | hsa\_155 | D03267 |
| 1 | hsa\_147 | D00095 | 0 | hsa\_6532 | D10325 | 0 | hsa\_64805 | D05667 |
| 1 | hsa\_552 | D00101 | 0 | hsa\_2554 | D04642 | 0 | hsa\_3352 | D02901 |
| 1 | hsa\_5739 | D00106 | 0 | hsa\_1129 | D05649 | 0 | hsa\_2862 | D01006 |
| 1 | hsa\_146 | D00124 | 0 | hsa\_55879 | D08182 | 0 | hsa\_6532 | D07997 |
| 1 | hsa\_147 | D00124 | 0 | hsa\_2554 | D10478 | 0 | hsa\_285242 | D08039 |
| 1 | hsa\_148 | D00124 | 0 | hsa\_1394 | D02101 | 0 | hsa\_3360 | D05343 |
| 1 | hsa\_1128 | D00138 | 0 | hsa\_2561 | D04970 | 0 | hsa\_6870 | D08067 |
| 1 | hsa\_1129 | D00138 | 0 | hsa\_1133 | D07809 | 0 | hsa\_3357 | D02048 |
| 1 | hsa\_1131 | D00138 | 0 | hsa\_3357 | D05099 | 0 | hsa\_5144 | D07837 |
| 1 | hsa\_1132 | D00138 | 0 | hsa\_2563 | D01386 | 0 | hsa\_886 | D02109 |
| 1 | hsa\_1133 | D00138 | 0 | hsa\_3352 | D00076 | 0 | hsa\_155 | D06574 |
| 1 | hsa\_1128 | D00147 | 0 | hsa\_3358 | D10170 | 0 | hsa\_624 | D10099 |
| 1 | hsa\_1129 | D00147 | 0 | hsa\_799 | D00839 | 0 | hsa\_3352 | D00778 |
| 1 | hsa\_1131 | D00147 | 0 | hsa\_1241 | D01477 | 0 | hsa\_2567 | D07976 |
| 1 | hsa\_1132 | D00147 | 0 | hsa\_6752 | D00721 | 0 | hsa\_5734 | D01006 |
| 1 | hsa\_1133 | D00147 | 0 | hsa\_3354 | D08595 | 0 | hsa\_2566 | D01096 |
| 1 | hsa\_7201 | D00176 | 0 | hsa\_6608 | D03276 | 0 | hsa\_153 | D07667 |
| 1 | hsa\_4988 | D00195 | 0 | hsa\_6755 | D01600 | 0 | hsa\_155 | D07868 |
| 1 | hsa\_1132 | D00232 | 0 | hsa\_624 | D07890 | 0 | hsa\_2562 | D04820 |
| 1 | hsa\_1133 | D00232 | 0 | hsa\_2566 | D08322 | 0 | hsa\_5734 | D08122 |
| 1 | hsa\_9568 | D00241 | 0 | hsa\_10280 | D08362 | 0 | hsa\_146 | D05690 |
| 1 | hsa\_799 | D00249 | 0 | hsa\_2915 | D10184 | 0 | hsa\_185 | D02750 |
| 1 | hsa\_3357 | D00270 | 0 | hsa\_10203 | D08482 | 0 | hsa\_2561 | D01006 |
| 1 | hsa\_3358 | D00270 | 0 | hsa\_2693 | D03290 | 0 | hsa\_11255 | D02281 |
| 1 | hsa\_552 | D00291 | 0 | hsa\_3274 | D07946 | 0 | hsa\_147 | D08026 |
| 1 | hsa\_1813 | D00308 | 0 | hsa\_5737 | D02682 | 0 | hsa\_147 | D00663 |
| 1 | hsa\_4988 | D00320 | 0 | hsa\_6751 | D08598 | 0 | hsa\_3757 | D01003 |
| 1 | hsa\_552 | D00366 | 0 | hsa\_4986 | D07459 | 0 | hsa\_6608 | D01026 |
| 1 | hsa\_134 | D00371 | 0 | hsa\_4986 | D00847 | 0 | hsa\_3757 | D04973 |
| 1 | hsa\_1813 | D00373 | 0 | hsa\_4988 | D08585 | 0 | hsa\_7201 | D08482 |
| 1 | hsa\_1813 | D00374 | 0 | hsa\_285242 | D08093 | 0 | hsa\_4988 | D00634 |
| 1 | hsa\_153 | D00378 | 0 | hsa\_11255 | D01794 | 0 | hsa\_3354 | D05037 |
| 1 | hsa\_1813 | D00390 | 0 | hsa\_2915 | D05970 | 0 | hsa\_6344 | D09990 |
| 1 | hsa\_1131 | D00397 | 0 | hsa\_55879 | D00106 | 0 | hsa\_2864 | D02101 |
| 1 | hsa\_1133 | D00397 | 0 | hsa\_59340 | D04626 | 0 | hsa\_3360 | D01952 |
| 1 | hsa\_3356 | D00403 | 0 | hsa\_846 | D00124 | 0 | hsa\_6755 | D08234 |
| 1 | hsa\_3357 | D00403 | 0 | hsa\_5724 | D03361 | 0 | hsa\_3352 | D09752 |
| 1 | hsa\_3358 | D00403 | 0 | hsa\_5143 | D05010 | 0 | hsa\_5142 | D02004 |
| 1 | hsa\_150 | D00405 | 0 | hsa\_150 | D04970 | 0 | hsa\_10203 | D08309 |
| 1 | hsa\_151 | D00405 | 0 | hsa\_6344 | D08923 | 0 | hsa\_6532 | D01359 |
| 1 | hsa\_152 | D00405 | 0 | hsa\_3061 | D03359 | 0 | hsa\_2554 | D02090 |
| 1 | hsa\_3359 | D00456 | 0 | hsa\_1133 | D10493 | 0 | hsa\_3062 | D08091 |
| 1 | hsa\_9177 | D00456 | 0 | hsa\_55879 | D01355 | 0 | hsa\_147 | D08685 |
| 1 | hsa\_170572 | D00456 | 0 | hsa\_2798 | D02109 | 0 | hsa\_5139 | D10117 |
| 1 | hsa\_200909 | D00456 | 0 | hsa\_886 | D01385 | 0 | hsa\_6344 | D03854 |
| 1 | hsa\_285242 | D00456 | 0 | hsa\_1814 | D08649 | 0 | hsa\_9177 | D03725 |
| 1 | hsa\_3356 | D00458 | 0 | hsa\_5732 | D01635 | 0 | hsa\_3362 | D01624 |
| 1 | hsa\_1131 | D00465 | 0 | hsa\_2912 | D04611 | 0 | hsa\_6532 | D05682 |
| 1 | hsa\_1813 | D00479 | 0 | hsa\_9177 | D02022 | 0 | hsa\_152 | D02250 |
| 1 | hsa\_1128 | D00481 | 0 | hsa\_3355 | D07451 | 0 | hsa\_846 | D03622 |
| 1 | hsa\_1129 | D00481 | 0 | hsa\_3354 | D02095 | 0 | hsa\_3274 | D09976 |
| 1 | hsa\_1131 | D00481 | 0 | hsa\_5144 | D07660 | 0 | hsa\_170572 | D10181 |
| 1 | hsa\_1132 | D00481 | 0 | hsa\_2556 | D01028 | 0 | hsa\_153 | D04098 |
| 1 | hsa\_1133 | D00481 | 0 | hsa\_154 | D09977 | 0 | hsa\_4986 | D08988 |
| 1 | hsa\_4988 | D00482 | 0 | hsa\_3356 | D05731 | 0 | hsa\_148 | D09349 |
| 1 | hsa\_146 | D00485 | 0 | hsa\_3360 | D05035 | 0 | hsa\_146 | D01369 |
| 1 | hsa\_147 | D00485 | 0 | hsa\_200909 | D02071 | 0 | hsa\_2555 | D01922 |
| 1 | hsa\_148 | D00485 | 0 | hsa\_2915 | D02765 | 0 | hsa\_2568 | D00677 |
| 1 | hsa\_4986 | D00498 | 0 | hsa\_6752 | D08182 | 0 | hsa\_5724 | D10147 |
| 1 | hsa\_1812 | D00502 | 0 | hsa\_2557 | D05738 | 0 | hsa\_4987 | D03535 |
| 1 | hsa\_146 | D00507 | 0 | hsa\_6751 | D01887 | 0 | hsa\_4157 | D08561 |
| 1 | hsa\_147 | D00507 | 0 | hsa\_147 | D06329 | 0 | hsa\_2554 | D09954 |
| 1 | hsa\_148 | D00507 | 0 | hsa\_3356 | D02192 | 0 | hsa\_3359 | D04492 |
| 1 | hsa\_146 | D00511 | 0 | hsa\_886 | D04701 | 0 | hsa\_6755 | D07475 |
| 1 | hsa\_147 | D00511 | 0 | hsa\_1394 | D07718 | 0 | hsa\_1909 | D03197 |
| 1 | hsa\_148 | D00511 | 0 | hsa\_2561 | D00757 | 0 | hsa\_799 | D08685 |
| 1 | hsa\_151 | D00514 | 0 | hsa\_147 | D01879 | 0 | hsa\_2557 | D02848 |
| 1 | hsa\_152 | D00514 | 0 | hsa\_1901 | D02846 | 0 | hsa\_155 | D10220 |
| 1 | hsa\_1131 | D00524 | 0 | hsa\_1268 | D09697 | 0 | hsa\_3354 | D09402 |
| 1 | hsa\_1132 | D00524 | 0 | hsa\_7201 | D00793 | 0 | hsa\_5734 | D10441 |
| 1 | hsa\_1133 | D00524 | 0 | hsa\_3757 | D02035 | 0 | hsa\_154 | D00997 |
| 1 | hsa\_1129 | D00525 | 0 | hsa\_55879 | D00686 | 0 | hsa\_200909 | D02983 |
| 1 | hsa\_1131 | D00525 | 0 | hsa\_2557 | D08010 | 0 | hsa\_10203 | D02384 |
| 1 | hsa\_1132 | D00525 | 0 | hsa\_6915 | D07682 | 0 | hsa\_6571 | D10671 |
| 1 | hsa\_1133 | D00525 | 0 | hsa\_2561 | D08293 | 0 | hsa\_5140 | D00847 |
| 1 | hsa\_10800 | D00529 | 0 | hsa\_1241 | D00820 | 0 | hsa\_10203 | D06355 |
| 1 | hsa\_1131 | D00540 | 0 | hsa\_2864 | D04497 | 0 | hsa\_6532 | D03854 |
| 1 | hsa\_1813 | D00559 | 0 | hsa\_6753 | D09964 | 0 | hsa\_2568 | D00756 |
| 1 | hsa\_3356 | D00561 | 0 | hsa\_2563 | D03402 | 0 | hsa\_3350 | D00291 |
| 1 | hsa\_3357 | D00563 | 0 | hsa\_7201 | D00819 | 0 | hsa\_5724 | D03051 |
| 1 | hsa\_2798 | D00573 | 0 | hsa\_3062 | D07171 | 0 | hsa\_3362 | D08384 |
| 1 | hsa\_153 | D00597 | 0 | hsa\_4157 | D08687 | 0 | hsa\_154 | D04788 |
| 1 | hsa\_153 | D00599 | 0 | hsa\_4889 | D04057 | 0 | hsa\_185 | D02396 |
| 1 | hsa\_146 | D00600 | 0 | hsa\_2862 | D06574 | 0 | hsa\_59340 | D00634 |
| 1 | hsa\_147 | D00600 | 0 | hsa\_886 | D09397 | 0 | hsa\_5139 | D09752 |
| 1 | hsa\_148 | D00600 | 0 | hsa\_5732 | D04625 | 0 | hsa\_552 | D01307 |
| 1 | hsa\_153 | D00602 | 0 | hsa\_3355 | D07861 | 0 | hsa\_3352 | D09991 |
| 1 | hsa\_153 | D00603 | 0 | hsa\_10800 | D05939 | 0 | hsa\_3351 | D08426 |
| 1 | hsa\_150 | D00605 | 0 | hsa\_150 | D03002 | 0 | hsa\_59340 | D08226 |
| 1 | hsa\_151 | D00605 | 0 | hsa\_2149 | D07181 | 0 | hsa\_5140 | D10677 |
| 1 | hsa\_152 | D00605 | 0 | hsa\_5141 | D02236 | 0 | hsa\_624 | D03502 |
| 1 | hsa\_146 | D00608 | 0 | hsa\_1812 | D07603 | 0 | hsa\_2567 | D00835 |
| 1 | hsa\_147 | D00608 | 0 | hsa\_1131 | D00597 | 0 | hsa\_135 | D02151 |
| 1 | hsa\_148 | D00608 | 0 | hsa\_151 | D00511 | 0 | hsa\_1132 | D07990 |
| 1 | hsa\_148 | D00610 | 0 | hsa\_6754 | D05677 | 0 | hsa\_2915 | D05127 |
| 1 | hsa\_147 | D00610 | 0 | hsa\_3354 | D03502 | 0 | hsa\_3358 | D07489 |
| 1 | hsa\_146 | D00610 | 0 | hsa\_4157 | D01385 | 0 | hsa\_146 | D06268 |
| 1 | hsa\_185 | D00626 | 0 | hsa\_6532 | D08355 | 0 | hsa\_5143 | D02363 |
| 1 | hsa\_1812 | D00633 | 0 | hsa\_2564 | D09610 | 0 | hsa\_2554 | D02739 |
| 1 | hsa\_153 | D00634 | 0 | hsa\_154 | D08986 | 0 | hsa\_4985 | D00669 |
| 1 | hsa\_153 | D00644 | 0 | hsa\_3061 | D10147 | 0 | hsa\_3356 | D07522 |
| 1 | hsa\_1131 | D00646 | 0 | hsa\_7201 | D06293 | 0 | hsa\_2562 | D10391 |
| 1 | hsa\_3269 | D00659 | 0 | hsa\_3350 | D08594 | 0 | hsa\_10203 | D09765 |
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| 1 | hsa\_1129 | D10546 | 0 | hsa\_3357 | D08209 | 0 | hsa\_2864 | D06566 |
| 1 | hsa\_1131 | D10546 | 0 | hsa\_3360 | D04641 | 0 | hsa\_7201 | D01007 |
| 1 | hsa\_1132 | D10546 | 0 | hsa\_1812 | D03506 | 0 | hsa\_3356 | D08395 |
| 1 | hsa\_1133 | D10546 | 0 | hsa\_3352 | D02069 | 0 | hsa\_2564 | D04701 |
| 1 | hsa\_185 | D10556 | 0 | hsa\_2565 | D10433 | 0 | hsa\_4157 | D02343 |
| 1 | hsa\_2693 | D10562 | 0 | hsa\_3354 | D10478 | 0 | hsa\_285242 | D00456 |
| 1 | hsa\_2693 | D10563 | 0 | hsa\_3350 | D10099 | 0 | hsa\_4988 | D07171 |
| 1 | hsa\_6755 | D10566 | 0 | hsa\_5734 | D02245 | 0 | hsa\_6751 | D00798 |
| 1 | hsa\_2864 | D10567 | 0 | hsa\_3350 | D00842 | 0 | hsa\_6870 | D09867 |
| 1 | hsa\_4988 | D10612 | 0 | hsa\_1129 | D05731 | 0 | hsa\_153 | D02381 |
| 1 | hsa\_5739 | D10628 | 0 | hsa\_5731 | D07113 | 0 | hsa\_2693 | D08184 |
| 1 | hsa\_5729 | D10631 | 0 | hsa\_6869 | D03814 | 0 | hsa\_5143 | D03618 |
| 1 | hsa\_6608 | D10636 | 0 | hsa\_153 | D05010 | 0 | hsa\_5737 | D00664 |
| 1 | hsa\_5734 | D10638 | 0 | hsa\_2565 | D04087 | 0 | hsa\_3362 | D03704 |
| 1 | hsa\_4988 | D10648 | 0 | hsa\_3062 | D06552 | 0 | hsa\_799 | D10516 |
| 1 | hsa\_2693 | D10660 | 0 | hsa\_6870 | D03704 | 0 | hsa\_3062 | D01188 |
| 1 | hsa\_10203 | D10662 | 0 | hsa\_1128 | D02590 | 0 | hsa\_1132 | D04765 |
| 1 | hsa\_10203 | D10663 | 0 | hsa\_3274 | D00481 | 0 | hsa\_3351 | D07662 |
| 1 | hsa\_6608 | D10671 | 0 | hsa\_147 | D00529 | 0 | hsa\_5729 | D06671 |
| 1 | hsa\_846 | D10676 | 0 | hsa\_2862 | D01101 | 0 | hsa\_6344 | D03953 |
| 1 | hsa\_846 | D10677 | 0 | hsa\_5141 | D00308 | 0 | hsa\_7201 | D08105 |
| 1 | hsa\_4988 | D10690 | 0 | hsa\_2560 | D04889 | 0 | hsa\_3757 | D08212 |
| 1 | hsa\_4988 | D10692 | 0 | hsa\_1813 | D06007 | 0 | hsa\_6532 | D06268 |
| 1 | hsa\_5739 | D10703 | 0 | hsa\_4985 | D07860 | 0 | hsa\_3358 | D07099 |
| 1 | hsa\_3362 | D10710 | 0 | hsa\_5141 | D02208 | 0 | hsa\_152 | D03009 |
| 1 | hsa\_5739 | D10725 | 0 | hsa\_147 | D03725 | 0 | hsa\_3362 | D01835 |
| 1 | hsa\_6608 | D10729 | 0 | hsa\_5734 | D10677 | 0 | hsa\_6754 | D07862 |
| 1 | hsa\_59340 | D10735 | 0 | hsa\_11255 | D01815 | 0 | hsa\_4987 | D01976 |
| 1 | hsa\_59340 | D10736 | 0 | hsa\_2563 | D02035 | 0 | hsa\_135 | D04502 |
| 1 | hsa\_4988 | D10740 | 0 | hsa\_1394 | D01898 | 0 | hsa\_3351 | D02016 |
| 1 | hsa\_6869 | D10742 | 0 | hsa\_5142 | D10326 | 0 | hsa\_2915 | D05476 |
| 1 | hsa\_3362 | D10747 | 0 | hsa\_2556 | D00481 | 0 | hsa\_4987 | D01205 |

Table IV The overall of drug-target interactions for nuclear receptors class on *Dataset2*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **class** | **Targets** | **Drugs** | **class** | **Targets** | **Drugs** | **class** | **Targets** | **Drugs** |
| 1 | hsa\_7421 | D00129 | 0 | hsa\_367 | D00129 | 0 | hsa\_6258 | D04214 |
| 1 | hsa\_5914 | D00164 | 0 | hsa\_5915 | D00129 | 0 | hsa\_7421 | D04214 |
| 1 | hsa\_5915 | D00164 | 0 | hsa\_6257 | D00129 | 0 | hsa\_367 | D04217 |
| 1 | hsa\_5916 | D00164 | 0 | hsa\_7421 | D00129 | 0 | hsa\_5465 | D04217 |
| 1 | hsa\_2908 | D00165 | 0 | hsa\_5241 | D00164 | 0 | hsa\_5914 | D04217 |
| 1 | hsa\_2099 | D00185 | 0 | hsa\_5468 | D00164 | 0 | hsa\_7068 | D04217 |
| 1 | hsa\_2908 | D00244 | 0 | hsa\_9971 | D00164 | 0 | hsa\_5467 | D04218 |
| 1 | hsa\_367 | D00289 | 0 | hsa\_367 | D00165 | 0 | hsa\_5467 | D04218 |
| 1 | hsa\_2908 | D00292 | 0 | hsa\_5916 | D00165 | 0 | hsa\_5914 | D04218 |
| 1 | hsa\_2908 | D00324 | 0 | hsa\_7068 | D00165 | 0 | hsa\_5467 | D04219 |
| 1 | hsa\_2908 | D00325 | 0 | hsa\_367 | D00185 | 0 | hsa\_7421 | D04219 |
| 1 | hsa\_2908 | D00328 | 0 | hsa\_4306 | D00185 | 0 | hsa\_2100 | D04221 |
| 1 | hsa\_5465 | D00334 | 0 | hsa\_5914 | D00185 | 0 | hsa\_367 | D04221 |
| 1 | hsa\_5915 | D00348 | 0 | hsa\_5915 | D00185 | 0 | hsa\_5916 | D04221 |
| 1 | hsa\_5916 | D00348 | 0 | hsa\_5916 | D00185 | 0 | hsa\_6258 | D04221 |
| 1 | hsa\_7067 | D00361 | 0 | hsa\_6258 | D00185 | 0 | hsa\_9971 | D04316 |
| 1 | hsa\_2908 | D00385 | 0 | hsa\_7421 | D00185 | 0 | hsa\_5241 | D04409 |
| 1 | hsa\_367 | D00389 | 0 | hsa\_6258 | D00244 | 0 | hsa\_5468 | D04409 |
| 1 | hsa\_5468 | D00395 | 0 | hsa\_7067 | D00244 | 0 | hsa\_7068 | D04409 |
| 1 | hsa\_2908 | D00407 | 0 | hsa\_2100 | D00289 | 0 | hsa\_6257 | D04467 |
| 1 | hsa\_367 | D00408 | 0 | hsa\_4306 | D00289 | 0 | hsa\_7421 | D04467 |
| 1 | hsa\_367 | D00444 | 0 | hsa\_5467 | D00289 | 0 | hsa\_4306 | D04496 |
| 1 | hsa\_2908 | D00472 | 0 | hsa\_5916 | D00289 | 0 | hsa\_7067 | D04636 |
| 1 | hsa\_2908 | D00473 | 0 | hsa\_5915 | D00292 | 0 | hsa\_7421 | D04636 |
| 1 | hsa\_367 | D00490 | 0 | hsa\_5916 | D00292 | 0 | hsa\_9971 | D04636 |
| 1 | hsa\_2099 | D00575 | 0 | hsa\_7068 | D00324 | 0 | hsa\_367 | D04672 |
| 1 | hsa\_2908 | D00689 | 0 | hsa\_7421 | D00324 | 0 | hsa\_5241 | D04672 |
| 1 | hsa\_2908 | D00690 | 0 | hsa\_5468 | D00385 | 0 | hsa\_5914 | D04672 |
| 1 | hsa\_2908 | D00751 | 0 | hsa\_5915 | D00385 | 0 | hsa\_5915 | D04672 |
| 1 | hsa\_5468 | D00945 | 0 | hsa\_2100 | D00389 | 0 | hsa\_7068 | D04672 |
| 1 | hsa\_2099 | D00946 | 0 | hsa\_6257 | D00389 | 0 | hsa\_2100 | D04885 |
| 1 | hsa\_2099 | D00948 | 0 | hsa\_9971 | D00389 | 0 | hsa\_5916 | D04885 |
| 1 | hsa\_5241 | D00949 | 0 | hsa\_7421 | D00395 | 0 | hsa\_2099 | D04947 |
| 1 | hsa\_5241 | D00952 | 0 | hsa\_367 | D00407 | 0 | hsa\_5914 | D04947 |
| 1 | hsa\_5241 | D00953 | 0 | hsa\_2100 | D00408 | 0 | hsa\_6258 | D04947 |
| 1 | hsa\_367 | D00955 | 0 | hsa\_2100 | D00472 | 0 | hsa\_4306 | D05000 |
| 1 | hsa\_367 | D00957 | 0 | hsa\_5241 | D00472 | 0 | hsa\_6258 | D05000 |
| 1 | hsa\_367 | D00958 | 0 | hsa\_7421 | D00472 | 0 | hsa\_7068 | D05000 |
| 1 | hsa\_367 | D00959 | 0 | hsa\_2099 | D00473 | 0 | hsa\_5241 | D05001 |
| 1 | hsa\_2099 | D00966 | 0 | hsa\_7068 | D00490 | 0 | hsa\_4306 | D05002 |
| 1 | hsa\_2099 | D00967 | 0 | hsa\_4306 | D00575 | 0 | hsa\_6256 | D05002 |
| 1 | hsa\_2908 | D00972 | 0 | hsa\_2099 | D00689 | 0 | hsa\_7068 | D05002 |
| 1 | hsa\_2908 | D00973 | 0 | hsa\_367 | D00689 | 0 | hsa\_7421 | D05002 |
| 1 | hsa\_2908 | D00975 | 0 | hsa\_5241 | D00751 | 0 | hsa\_7421 | D05002 |
| 1 | hsa\_2908 | D00976 | 0 | hsa\_6256 | D00751 | 0 | hsa\_5916 | D05003 |
| 1 | hsa\_2908 | D00977 | 0 | hsa\_6256 | D00945 | 0 | hsa\_4306 | D05020 |
| 1 | hsa\_2908 | D00978 | 0 | hsa\_5468 | D00946 | 0 | hsa\_5241 | D05020 |
| 1 | hsa\_2908 | D00979 | 0 | hsa\_6256 | D00946 | 0 | hsa\_5468 | D05020 |
| 1 | hsa\_2908 | D00980 | 0 | hsa\_2100 | D00948 | 0 | hsa\_5914 | D05020 |
| 1 | hsa\_2908 | D00981 | 0 | hsa\_4306 | D00948 | 0 | hsa\_6257 | D05020 |
| 1 | hsa\_2908 | D00982 | 0 | hsa\_5916 | D00948 | 0 | hsa\_4306 | D05025 |
| 1 | hsa\_2908 | D00983 | 0 | hsa\_7067 | D00948 | 0 | hsa\_5241 | D05025 |
| 1 | hsa\_2908 | D00984 | 0 | hsa\_5915 | D00949 | 0 | hsa\_5916 | D05025 |
| 1 | hsa\_2908 | D00985 | 0 | hsa\_6257 | D00949 | 0 | hsa\_6256 | D05025 |
| 1 | hsa\_2908 | D00986 | 0 | hsa\_6258 | D00949 | 0 | hsa\_6257 | D05025 |
| 1 | hsa\_7067 | D01010 | 0 | hsa\_7068 | D00949 | 0 | hsa\_6258 | D05025 |
| 1 | hsa\_7067 | D01011 | 0 | hsa\_2099 | D00952 | 0 | hsa\_6258 | D05025 |
| 1 | hsa\_7421 | D01098 | 0 | hsa\_7421 | D00952 | 0 | hsa\_6257 | D05030 |
| 1 | hsa\_5914 | D01112 | 0 | hsa\_9971 | D00952 | 0 | hsa\_4306 | D05091 |
| 1 | hsa\_5915 | D01112 | 0 | hsa\_5467 | D00953 | 0 | hsa\_6258 | D05091 |
| 1 | hsa\_5916 | D01112 | 0 | hsa\_6258 | D00953 | 0 | hsa\_6258 | D05091 |
| 1 | hsa\_7421 | D01125 | 0 | hsa\_2100 | D00955 | 0 | hsa\_5467 | D05106 |
| 1 | hsa\_367 | D01149 | 0 | hsa\_5468 | D00955 | 0 | hsa\_5465 | D05116 |
| 1 | hsa\_5241 | D01159 | 0 | hsa\_6256 | D00955 | 0 | hsa\_9971 | D05116 |
| 1 | hsa\_5465 | D01208 | 0 | hsa\_7067 | D00955 | 0 | hsa\_5468 | D05192 |
| 1 | hsa\_2908 | D01229 | 0 | hsa\_7068 | D00957 | 0 | hsa\_5915 | D05192 |
| 1 | hsa\_2908 | D01239 | 0 | hsa\_5467 | D00958 | 0 | hsa\_2099 | D05209 |
| 1 | hsa\_2099 | D01265 | 0 | hsa\_5468 | D00959 | 0 | hsa\_6256 | D05209 |
| 1 | hsa\_2908 | D01272 | 0 | hsa\_5916 | D00959 | 0 | hsa\_5467 | D05601 |
| 1 | hsa\_2908 | D01273 | 0 | hsa\_2100 | D00966 | 0 | hsa\_6256 | D05674 |
| 1 | hsa\_5241 | D01299 | 0 | hsa\_5468 | D00966 | 0 | hsa\_6257 | D05674 |
| 1 | hsa\_367 | D01301 | 0 | hsa\_5914 | D00966 | 0 | hsa\_6257 | D05679 |
| 1 | hsa\_2908 | D01327 | 0 | hsa\_9971 | D00966 | 0 | hsa\_6257 | D05679 |
| 1 | hsa\_367 | D01329 | 0 | hsa\_367 | D00967 | 0 | hsa\_367 | D05719 |
| 1 | hsa\_2908 | D01357 | 0 | hsa\_5241 | D00967 | 0 | hsa\_367 | D05719 |
| 1 | hsa\_5465 | D01366 | 0 | hsa\_5915 | D00967 | 0 | hsa\_5465 | D05719 |
| 1 | hsa\_2908 | D01367 | 0 | hsa\_6257 | D00967 | 0 | hsa\_2099 | D05729 |
| 1 | hsa\_367 | D01368 | 0 | hsa\_9971 | D00972 | 0 | hsa\_5916 | D05729 |
| 1 | hsa\_5241 | D01374 | 0 | hsa\_4306 | D00976 | 0 | hsa\_9971 | D05729 |
| 1 | hsa\_367 | D01375 | 0 | hsa\_5241 | D00977 | 0 | hsa\_367 | D05739 |
| 1 | hsa\_2908 | D01402 | 0 | hsa\_5468 | D00977 | 0 | hsa\_6256 | D05739 |
| 1 | hsa\_2099 | D01413 | 0 | hsa\_7067 | D00978 | 0 | hsa\_7067 | D05739 |
| 1 | hsa\_367 | D01414 | 0 | hsa\_2100 | D00979 | 0 | hsa\_4306 | D05837 |
| 1 | hsa\_5914 | D01418 | 0 | hsa\_6257 | D00979 | 0 | hsa\_5465 | D05837 |
| 1 | hsa\_5915 | D01418 | 0 | hsa\_6258 | D00979 | 0 | hsa\_5468 | D05837 |
| 1 | hsa\_5916 | D01418 | 0 | hsa\_2100 | D00980 | 0 | hsa\_367 | D06085 |
| 1 | hsa\_2908 | D01442 | 0 | hsa\_4306 | D00980 | 0 | hsa\_5916 | D06085 |
| 1 | hsa\_2908 | D01464 | 0 | hsa\_5241 | D00981 | 0 | hsa\_5916 | D06085 |
| 1 | hsa\_7421 | D01472 | 0 | hsa\_5467 | D00981 | 0 | hsa\_7421 | D06085 |
| 1 | hsa\_367 | D01476 | 0 | hsa\_5468 | D00981 | 0 | hsa\_367 | D06086 |
| 1 | hsa\_2908 | D01510 | 0 | hsa\_2100 | D00982 | 0 | hsa\_5465 | D06086 |
| 1 | hsa\_5914 | D01516 | 0 | hsa\_9971 | D00982 | 0 | hsa\_5468 | D06086 |
| 1 | hsa\_5915 | D01516 | 0 | hsa\_2100 | D00983 | 0 | hsa\_5914 | D06086 |
| 1 | hsa\_5916 | D01516 | 0 | hsa\_6258 | D00983 | 0 | hsa\_5916 | D06086 |
| 1 | hsa\_7421 | D01518 | 0 | hsa\_7068 | D00983 | 0 | hsa\_6258 | D06086 |
| 1 | hsa\_5241 | D01580 | 0 | hsa\_367 | D00984 | 0 | hsa\_7068 | D06086 |
| 1 | hsa\_2099 | D01602 | 0 | hsa\_5241 | D00984 | 0 | hsa\_5915 | D06102 |
| 1 | hsa\_2908 | D01615 | 0 | hsa\_5916 | D00985 | 0 | hsa\_6258 | D06102 |
| 1 | hsa\_367 | D01616 | 0 | hsa\_6257 | D00985 | 0 | hsa\_5241 | D06216 |
| 1 | hsa\_2099 | D01617 | 0 | hsa\_7068 | D00986 | 0 | hsa\_5467 | D06216 |
| 1 | hsa\_2908 | D01619 | 0 | hsa\_7068 | D01010 | 0 | hsa\_5468 | D06216 |
| 1 | hsa\_5914 | D01621 | 0 | hsa\_367 | D01011 | 0 | hsa\_4306 | D06245 |
| 1 | hsa\_5915 | D01621 | 0 | hsa\_6258 | D01011 | 0 | hsa\_5468 | D06245 |
| 1 | hsa\_5916 | D01621 | 0 | hsa\_7421 | D01011 | 0 | hsa\_5467 | D06315 |
| 1 | hsa\_2908 | D01632 | 0 | hsa\_5916 | D01098 | 0 | hsa\_5914 | D06315 |
| 1 | hsa\_2908 | D01637 | 0 | hsa\_7068 | D01098 | 0 | hsa\_5916 | D06315 |
| 1 | hsa\_2099 | D01639 | 0 | hsa\_2100 | D01112 | 0 | hsa\_6256 | D06315 |
| 1 | hsa\_7421 | D01662 | 0 | hsa\_4306 | D01112 | 0 | hsa\_6257 | D06315 |
| 1 | hsa\_2908 | D01703 | 0 | hsa\_6258 | D01112 | 0 | hsa\_5916 | D06543 |
| 1 | hsa\_2908 | D01708 | 0 | hsa\_7421 | D01112 | 0 | hsa\_7068 | D06543 |
| 1 | hsa\_367 | D01737 | 0 | hsa\_5916 | D01125 | 0 | hsa\_7421 | D06543 |
| 1 | hsa\_2908 | D01743 | 0 | hsa\_6257 | D01125 | 0 | hsa\_5468 | D06551 |
| 1 | hsa\_2908 | D01764 | 0 | hsa\_7421 | D01125 | 0 | hsa\_5465 | D06876 |
| 1 | hsa\_2908 | D01820 | 0 | hsa\_2100 | D01149 | 0 | hsa\_2100 | D07073 |
| 1 | hsa\_2908 | D01825 | 0 | hsa\_5241 | D01149 | 0 | hsa\_4306 | D07073 |
| 1 | hsa\_2908 | D01886 | 0 | hsa\_5465 | D01149 | 0 | hsa\_5467 | D07073 |
| 1 | hsa\_4306 | D01943 | 0 | hsa\_5468 | D01149 | 0 | hsa\_2099 | D07096 |
| 1 | hsa\_2908 | D01948 | 0 | hsa\_5916 | D01149 | 0 | hsa\_5914 | D07096 |
| 1 | hsa\_2099 | D01953 | 0 | hsa\_7068 | D01149 | 0 | hsa\_9971 | D07096 |
| 1 | hsa\_2099 | D01986 | 0 | hsa\_5467 | D01159 | 0 | hsa\_6258 | D07127 |
| 1 | hsa\_2099 | D01989 | 0 | hsa\_5915 | D01159 | 0 | hsa\_5465 | D07187 |
| 1 | hsa\_2908 | D01998 | 0 | hsa\_5915 | D01159 | 0 | hsa\_5914 | D07187 |
| 1 | hsa\_2908 | D02032 | 0 | hsa\_5467 | D01208 | 0 | hsa\_4306 | D07201 |
| 1 | hsa\_2908 | D02156 | 0 | hsa\_5467 | D01208 | 0 | hsa\_6257 | D07201 |
| 1 | hsa\_2908 | D02174 | 0 | hsa\_5914 | D01208 | 0 | hsa\_6258 | D07201 |
| 1 | hsa\_2908 | D02286 | 0 | hsa\_9971 | D01229 | 0 | hsa\_9971 | D07202 |
| 1 | hsa\_2908 | D02287 | 0 | hsa\_5465 | D01239 | 0 | hsa\_9971 | D07202 |
| 1 | hsa\_2908 | D02288 | 0 | hsa\_9971 | D01239 | 0 | hsa\_5465 | D07203 |
| 1 | hsa\_2908 | D02289 | 0 | hsa\_2099 | D01265 | 0 | hsa\_5467 | D07203 |
| 1 | hsa\_2908 | D02591 | 0 | hsa\_367 | D01265 | 0 | hsa\_7068 | D07203 |
| 1 | hsa\_2908 | D02592 | 0 | hsa\_6258 | D01265 | 0 | hsa\_6258 | D07214 |
| 1 | hsa\_5914 | D02754 | 0 | hsa\_7068 | D01265 | 0 | hsa\_367 | D07220 |
| 1 | hsa\_5915 | D02754 | 0 | hsa\_5467 | D01272 | 0 | hsa\_5468 | D07220 |
| 1 | hsa\_5916 | D02754 | 0 | hsa\_5916 | D01272 | 0 | hsa\_2100 | D07221 |
| 1 | hsa\_2099 | D02758 | 0 | hsa\_6258 | D01272 | 0 | hsa\_5916 | D07221 |
| 1 | hsa\_6256 | D02815 | 0 | hsa\_7067 | D01272 | 0 | hsa\_7068 | D07221 |
| 1 | hsa\_6257 | D02815 | 0 | hsa\_5465 | D01273 | 0 | hsa\_7421 | D07221 |
| 1 | hsa\_6258 | D02815 | 0 | hsa\_5465 | D01299 | 0 | hsa\_2100 | D07222 |
| 1 | hsa\_2099 | D02993 | 0 | hsa\_5467 | D01299 | 0 | hsa\_9971 | D07222 |
| 1 | hsa\_5241 | D02996 | 0 | hsa\_5914 | D01299 | 0 | hsa\_5241 | D07230 |
| 1 | hsa\_2099 | D03062 | 0 | hsa\_6256 | D01299 | 0 | hsa\_6256 | D07230 |
| 1 | hsa\_6256 | D03106 | 0 | hsa\_5465 | D01301 | 0 | hsa\_4306 | D07434 |
| 1 | hsa\_6257 | D03106 | 0 | hsa\_5467 | D01301 | 0 | hsa\_7067 | D07434 |
| 1 | hsa\_6258 | D03106 | 0 | hsa\_5468 | D01301 | 0 | hsa\_2100 | D07456 |
| 1 | hsa\_367 | D03144 | 0 | hsa\_6256 | D01301 | 0 | hsa\_4306 | D07456 |
| 1 | hsa\_367 | D03145 | 0 | hsa\_2099 | D01327 | 0 | hsa\_6256 | D07456 |
| 1 | hsa\_2908 | D03301 | 0 | hsa\_367 | D01327 | 0 | hsa\_2100 | D07495 |
| 1 | hsa\_2908 | D03325 | 0 | hsa\_5467 | D01327 | 0 | hsa\_5468 | D07495 |
| 1 | hsa\_4306 | D03363 | 0 | hsa\_6256 | D01327 | 0 | hsa\_7067 | D07578 |
| 1 | hsa\_5468 | D03493 | 0 | hsa\_6256 | D01329 | 0 | hsa\_5916 | D07670 |
| 1 | hsa\_5465 | D03521 | 0 | hsa\_6256 | D01329 | 0 | hsa\_6256 | D07715 |
| 1 | hsa\_2908 | D03541 | 0 | hsa\_7067 | D01329 | 0 | hsa\_7421 | D07715 |
| 1 | hsa\_2908 | D03561 | 0 | hsa\_7067 | D01366 | 0 | hsa\_2100 | D07717 |
| 1 | hsa\_2908 | D03594 | 0 | hsa\_367 | D01368 | 0 | hsa\_7068 | D07717 |
| 1 | hsa\_2908 | D03595 | 0 | hsa\_5468 | D01374 | 0 | hsa\_2099 | D07719 |
| 1 | hsa\_5468 | D03653 | 0 | hsa\_6258 | D01374 | 0 | hsa\_5467 | D07719 |
| 1 | hsa\_2908 | D03671 | 0 | hsa\_2100 | D01375 | 0 | hsa\_5467 | D07719 |
| 1 | hsa\_2908 | D03696 | 0 | hsa\_4306 | D01375 | 0 | hsa\_5916 | D07719 |
| 1 | hsa\_2908 | D03697 | 0 | hsa\_5914 | D01375 | 0 | hsa\_5468 | D07724 |
| 1 | hsa\_4306 | D03698 | 0 | hsa\_6257 | D01375 | 0 | hsa\_6256 | D07724 |
| 1 | hsa\_4306 | D03699 | 0 | hsa\_5465 | D01402 | 0 | hsa\_7067 | D07724 |
| 1 | hsa\_4306 | D03792 | 0 | hsa\_5467 | D01402 | 0 | hsa\_9971 | D07726 |
| 1 | hsa\_5241 | D03799 | 0 | hsa\_5467 | D01402 | 0 | hsa\_5467 | D07749 |
| 1 | hsa\_2908 | D03812 | 0 | hsa\_5468 | D01402 | 0 | hsa\_5468 | D07792 |
| 1 | hsa\_2908 | D03813 | 0 | hsa\_5468 | D01413 | 0 | hsa\_367 | D07796 |
| 1 | hsa\_2099 | D03911 | 0 | hsa\_5914 | D01418 | 0 | hsa\_5468 | D07796 |
| 1 | hsa\_2099 | D03912 | 0 | hsa\_5914 | D01418 | 0 | hsa\_7421 | D07796 |
| 1 | hsa\_4306 | D03917 | 0 | hsa\_5915 | D01418 | 0 | hsa\_367 | D07797 |
| 1 | hsa\_5468 | D03941 | 0 | hsa\_6256 | D01418 | 0 | hsa\_5916 | D07797 |
| 1 | hsa\_2099 | D04041 | 0 | hsa\_7067 | D01442 | 0 | hsa\_7067 | D07797 |
| 1 | hsa\_2099 | D04061 | 0 | hsa\_5465 | D01464 | 0 | hsa\_7421 | D07797 |
| 1 | hsa\_2099 | D04063 | 0 | hsa\_7067 | D01464 | 0 | hsa\_9971 | D07797 |
| 1 | hsa\_2099 | D04064 | 0 | hsa\_2099 | D01472 | 0 | hsa\_5914 | D07798 |
| 1 | hsa\_2099 | D04065 | 0 | hsa\_4306 | D01472 | 0 | hsa\_5241 | D07800 |
| 1 | hsa\_5241 | D04104 | 0 | hsa\_5465 | D01472 | 0 | hsa\_5467 | D07800 |
| 1 | hsa\_5914 | D04162 | 0 | hsa\_9971 | D01472 | 0 | hsa\_5915 | D07800 |
| 1 | hsa\_5915 | D04162 | 0 | hsa\_5241 | D01476 | 0 | hsa\_5916 | D07800 |
| 1 | hsa\_5916 | D04162 | 0 | hsa\_5468 | D01476 | 0 | hsa\_5914 | D07802 |
| 1 | hsa\_2908 | D04208 | 0 | hsa\_9971 | D01476 | 0 | hsa\_7068 | D07802 |
| 1 | hsa\_2908 | D04214 | 0 | hsa\_2100 | D01510 | 0 | hsa\_5914 | D07826 |
| 1 | hsa\_2908 | D04217 | 0 | hsa\_5465 | D01510 | 0 | hsa\_5914 | D07826 |
| 1 | hsa\_2908 | D04218 | 0 | hsa\_5467 | D01510 | 0 | hsa\_5468 | D07827 |
| 1 | hsa\_2908 | D04219 | 0 | hsa\_5914 | D01510 | 0 | hsa\_9971 | D07827 |
| 1 | hsa\_2908 | D04221 | 0 | hsa\_6257 | D01510 | 0 | hsa\_5914 | D07918 |
| 1 | hsa\_2908 | D04227 | 0 | hsa\_6258 | D01510 | 0 | hsa\_7421 | D07918 |
| 1 | hsa\_5241 | D04316 | 0 | hsa\_4306 | D01518 | 0 | hsa\_5468 | D07919 |
| 1 | hsa\_2908 | D04409 | 0 | hsa\_2099 | D01580 | 0 | hsa\_5468 | D07919 |
| 1 | hsa\_2908 | D04467 | 0 | hsa\_6257 | D01580 | 0 | hsa\_5915 | D07919 |
| 1 | hsa\_2099 | D04496 | 0 | hsa\_6258 | D01602 | 0 | hsa\_5468 | D07920 |
| 1 | hsa\_5914 | D04636 | 0 | hsa\_9971 | D01602 | 0 | hsa\_9971 | D07920 |
| 1 | hsa\_5915 | D04636 | 0 | hsa\_5241 | D01615 | 0 | hsa\_6256 | D07921 |
| 1 | hsa\_5916 | D04636 | 0 | hsa\_7067 | D01615 | 0 | hsa\_5916 | D07928 |
| 1 | hsa\_2099 | D04672 | 0 | hsa\_7068 | D01615 | 0 | hsa\_7067 | D07928 |
| 1 | hsa\_5241 | D04885 | 0 | hsa\_5468 | D01616 | 0 | hsa\_7067 | D07928 |
| 1 | hsa\_367 | D04947 | 0 | hsa\_6257 | D01617 | 0 | hsa\_2099 | D07939 |
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| 1 | hsa\_5241 | D05003 | 0 | hsa\_5241 | D01632 | 0 | hsa\_6256 | D07972 |
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| 1 | hsa\_5465 | D05091 | 0 | hsa\_6258 | D01662 | 0 | hsa\_2099 | D07980 |
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| 1 | hsa\_5468 | D05150 | 0 | hsa\_6258 | D01703 | 0 | hsa\_5915 | D07980 |
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| 1 | hsa\_4306 | D05640 | 0 | hsa\_2100 | D01737 | 0 | hsa\_4306 | D08053 |
| 1 | hsa\_367 | D05674 | 0 | hsa\_6257 | D01737 | 0 | hsa\_5468 | D08053 |
| 1 | hsa\_5241 | D05679 | 0 | hsa\_7421 | D01737 | 0 | hsa\_5241 | D08125 |
| 1 | hsa\_2908 | D05719 | 0 | hsa\_5241 | D01743 | 0 | hsa\_5916 | D08128 |
| 1 | hsa\_2908 | D05729 | 0 | hsa\_5914 | D01743 | 0 | hsa\_9971 | D08128 |
| 1 | hsa\_5468 | D05739 | 0 | hsa\_7067 | D01743 | 0 | hsa\_5468 | D08147 |
| 1 | hsa\_367 | D05837 | 0 | hsa\_7421 | D01743 | 0 | hsa\_5915 | D08147 |
| 1 | hsa\_367 | D06085 | 0 | hsa\_2099 | D01764 | 0 | hsa\_6257 | D08147 |
| 1 | hsa\_367 | D06086 | 0 | hsa\_5241 | D01764 | 0 | hsa\_7067 | D08147 |
| 1 | hsa\_367 | D06087 | 0 | hsa\_5468 | D01764 | 0 | hsa\_9971 | D08166 |
| 1 | hsa\_5465 | D06102 | 0 | hsa\_2099 | D01820 | 0 | hsa\_5465 | D08167 |
| 1 | hsa\_2908 | D06171 | 0 | hsa\_5914 | D01820 | 0 | hsa\_9971 | D08167 |
| 1 | hsa\_2908 | D06216 | 0 | hsa\_7067 | D01820 | 0 | hsa\_5241 | D08193 |
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