

Metabolite Name	Retention Index	Quantified Ion	BinBase ID	Mass spectra (m/z : intensity)	KEGG ID	PubChem ID	proportion increased in tumors	% increased in tumors	O-PLS-DA model loading
ribitol	576156	217	367970	3:13.0 185:36	C00474	827	35 / 39	90	-0.1072
5,6-dihydrouracil	469713	243	308130	3:35.0 300:20	C00429	649	35 / 39	90	-0.1115
UDP GlcNAc	623732	226	227600	46:3.0 147:17	C00043	445675	34 / 39	87	-0.1239
cytidine-5-monophosphate	975265	169	203268	2:80.0 143:24	C00055	6131	34 / 39	87	-0.0248
tocopherol alpha	1067178	237	199211	4.0 155:8.0 1	C02477	14985	32 / 39	82	-0.0929
glutamic acid	528717	246	433267	49:3105.0 15	C00025	33032	32 / 39	82	-0.0993
fucose+ rhamnose	577861	117	205102	8.0 143:211.0	C01018	94270	32 / 39	82	-0.0936
5'-deoxy-5'-methylthioadenosine	967673	236	213373	0 146:6.0 147	C00170	439176	32 / 39	82	-0.0980
N-acetyl-D-mannosamine	723859	202	243111	1 157:2045.0	C00645	65150	31 / 39	79	-0.0854
cysteine	501345	220	200918	159:6.0 160:1	C00097	594	31 / 39	79	-0.0872
arabinose	546892	217	202065	8:100.0 159:1	C00259	229	30 / 39	77	-0.0784
xylitol	566749	217	200524	2.0 169:3.0 17	C00379	6912	29 / 39	74	-0.0699
xanthine	702391	353	203224	0 137:104.0	C00385	1188	29 / 39	74	-0.1019
gamma-tocopherol	1026222	223	202089	1.0 163:37.0	C02483	92729	29 / 39	74	-0.0178
arachidonic acid	835751	91	221544	0.0 144:21.0 145:322.0 146:	5312542	29 / 39	74	-0.0475	
adenosine	917818	236	211944	149:452.0 15	C00212	60961	29 / 39	74	-0.0410
trans-4-hydroxyproline	460567	158	199804	34:2.0 198:2.0	C01157	5810	28 / 39	72	-0.0585
nicotinamide	470102	179	296490	1:802.0 178:60	C00153	936	28 / 39	72	-0.0744
glycerol-3-galactoside	801542	204	219508	6:3.0 204:123	C05401	656504	28 / 39	72	-0.0433
glycerol	343749	205	207507	8.0 150:232.0	C00116	753	28 / 39	72	-0.0485
fucose	584612	117	205106	5:0 180:7.0 1	C01019	94270	28 / 39	72	-0.0706
adenosine-5-phosphate	1038945	169	362124	2:64.0 216:42	C00020	6083	28 / 39	72	-0.0860
adenine	646247	264	307666	52:296.0 164:	C00147	190	28 / 39	72	-0.0857
2-hydroxyglutaric acid	507692	129	374016	0 151:11.0 15	C02630	43	28 / 39	72	-0.0490
uric acid	730534	441	304993	67:117.0 168	C00366	1175	27 / 39	69	-0.0826
UDP-glucuronic acid	586393	217	328006	7:17509.0 148	C00167	17473	27 / 39	69	-0.0822
phenylpyruvic acid	516882	116	236874	5:272.0 157:9	C00166	997	27 / 39	69	-0.0140
isoleucine	359190	158	214141	0 142:589.0	C00407	6306	27 / 39	69	-0.0358
inosine 5'-monophosphate	1017326	315	229187	83:151.0 185:	C00130	8582	27 / 39	69	-0.0845
creatinine	502434	115	199603	3:1.0 169:1.0	C00791	588	27 / 39	69	-0.0811
4-hydroxybutyric acid	325197	233	231100	121672.0 132	C00989	10413	27 / 39	69	-0.1001
uracil	385903	99	199600	24.0 141:50.0	C00106	1174	26 / 39	67	-0.0305
proline	364232	142	199611	222:3.0 223:1	C00148	145742	26 / 39	67	-0.0507
glyceric acid	377001	189	199174	54.0 144:142.	C00258	439194	26 / 39	67	-0.0450
aminomalonic acid	455266	218	240264	771.0 165:10.	C00872	100714	26 / 39	67	-0.0589
alanine	246015	116	241385	3.0 144:7751	C00041	5950	26 / 39	67	-0.0433
phosphoethanolamine	604454	100	199628	1:2.0 168:2.0 :	C00346	1015	25 / 39	64	-0.0732
phenylalanine	538016	218	217642	1:43.0 138:2.0	C00079	6140	25 / 39	64	-0.0117
malic acid	461034	233	247180	0 140:13.0 14	C00149	222656	25 / 39	64	-0.0774
leucine	350582	158	211938	8:2016.0 159	C00123	6106	25 / 39	64	0.0087
isothreonic acid	490829	292	563314	0:150.0 151:5.0 152:22.0 154:20.0 156:67:			25 / 39	64	-0.0805
hypoxanthine	618133	265	410816	4.0 145:779.0	C00262	790	25 / 39	64	0.0096
glycerol-alpha-phosphate	591357	299	199419	0 150:65.0 151	C00093	754	25 / 39	64	0.0030
erythronic acid	512521	218	212276	119.0 145:77.0 146:50.0 147	2781043	25 / 39	64	-0.0541	

asparagine	554276	116	372854	31:29.0 184:1	C00152	236	25 / 39	64	-0.0037
arabitol	572600	307	417461	59995.0 134:2	C01904	94154	25 / 39	64	-0.0987
3-phenyllactic acid	516416	193	213134	1.0 157:29.0 1	C05607	3848	25 / 39	64	-0.0084
1-monopalmitin	901207	371	202859	0 145:483.0 146:121.0 147:1		14900	25 / 39	64	-0.0258
tyrosine	670802	218	381469	48.0 181:24.	C00082	6057	24 / 39	62	-0.0059
trehalose	947837	191	199289	8.0 161:133.0	C01083	7427	24 / 39	62	-0.0433
taurine	557250	326	234595	63.0 142:235	C00245	1123	24 / 39	62	-0.0656
oxoproline	489576	156	228006	0 136:102.0 1	C01879	7405	24 / 39	62	-0.0679
methionine	483977	176	210265	172:7.0 173:3	C00073	6137	24 / 39	62	-0.0045
methanolphosphate	287964	241	410813	2.0 161:230.0 163:31680.0 164:2720.0 165			24 / 39	62	-0.0306
linoleic acid	777102	337	199240	0 137:406.0 1	C01595	5280450	24 / 39	62	0.0049
glycocyanine	511031	171	368038	0 182:102.0 185:588.0 186:1027.0 187:51			24 / 39	62	-0.0371
glycerol-beta-phosphate	574994	243	212582	1.0 194:30.0 1	C02979	2526	24 / 39	62	-0.0549
glutamine	599904	156	324855	1.0 200:34.0 2	C00064	5961	24 / 39	62	0.0027
FAD	585516	246	225859	7.0 149:4099.	C00016	643975	24 / 39	62	-0.0263
phosphoric acid	342472	314	218342	6984.0 148:1	C00009	1004	23 / 39	59	-0.0323
N-methylalanine	286258	130	205663	15.0 159:1.0 1	C02721	5288725	23 / 39	59	-0.0125
maltotriose	1177212	204	203245	0 150:44.0 1	C01835	92146	23 / 39	59	-0.0636
maltose	955559	361	205510	9.0 161:91.0	C00208	6255	23 / 39	59	-0.0431
indole-3-lactate	764543	202	223518	0 343:25.0 34	C02043	92904	23 / 39	59	-0.0285
glycine	364262	174	227957	519.0 150:36.	C00037	750	23 / 39	59	-0.0421
cellobiotol	956355	204	200508	2.0 156:14.0 157:194.0 158:		160514	23 / 39	59	-0.0445
5-aminovaleric acid	536304	174	238442	143:215.0 14	C00431	138	23 / 39	59	-0.0012
uridine-5'-monophosphate	979035	352	270802	0 1869.0 141:	C00105	6030	22 / 39	56	-0.0170
putrescine	588249	174	200452	90:2.0 194:1.	C00134	1045	22 / 39	56	-0.0255
pipecolic acid	403598	156	200382	66.0 144:70.0	C00408	439227	22 / 39	56	-0.0236
inosine	897806	230	199606	7.0 139:85.0 1	C00294	6021	22 / 39	56	-0.0005
fructose	644460	217	386192	12.0 191:117.	C00095	5984	22 / 39	56	0.0066
threonic acid	497167	292	199262	5:652.0 206:1	C01620	439535	21 / 39	54	-0.0187
succinic acid	370518	247	199210	2.0 145:102.0	C00042	1110	21 / 39	54	-0.0563
pyrophosphate	546635	451	235832	0 148:14490	C00013	1023	21 / 39	54	0.0085
maleimide	244928	154	200907	33.0 134:819.	C07272	10935	21 / 39	54	-0.0061
fumaric acid	390853	245	325032	283.0 157:21.	C00122	444972	21 / 39	54	-0.0380
ethanolamine	344330	174	368025	0 181:145.0 182:214.0 187:267.0 188:84.0			21 / 39	54	-0.0156
digalacturonic acid	956026	233	296148	9934.0 144:1273.0 145:1971		6857565	21 / 39	54	-0.0281
cytidine-5'-diphosphate	861380	217	203807	5:18.0 157:62	C00112	290	21 / 39	54	-0.0188
5-hydroxynorvaline	494838	142	200384	8:27.0 139:32.0 140:90.0 14		95562	21 / 39	54	-0.0214
valine	309905	144	227947	1.0 136:66.0 1	C00183	6287	20 / 39	51	0.0013
thymine	420134	255	236696	0 3099.0 141:	C00178	1135	20 / 39	51	-0.0192
threonine	408911	117	269656	0 150:768.0 1	C00188	6288	20 / 39	51	-0.0245
sorbitol	667682	319	204185	0 177:6.0 17	C00794	5780	20 / 39	51	0.0229
pseudo uridine	813829	217	213381	51:2.0 152:3:	C02067	15047	20 / 39	51	0.0203
orotic acid	584723	254	237885	172.0 139:158	C00295	967	20 / 39	51	-0.0175
homoserine	444264	218	206163	13.0 177:6.0 1	C00263	12647	20 / 39	51	-0.0208
glucuronic acid	666401	333	353273	156:244.0 1	C00191	94715	20 / 39	51	-0.0094
behenic acid	919675	117	203290	1.0 146:211.0	C08281	8215	20 / 39	51	0.0203
3-hydroxybutanoic acid	278651	191	267654	0 147:259779	C01089	92135	20 / 39	51	-0.0064
xanthosine	924754	325	237801	4.0 265:115.0	C01762	64959	19 / 39	49	0.0013
salicylaldehyde	406706	193	228532	732.0 148:27:	C06202	6998	19 / 39	49	0.0381
ribose	553411	307	204210	0 172:251.0 1	C00121	5779	19 / 39	49	-0.0041
ribonic acid	598019	292	199341	759.0 205:5	C01685	5460677	19 / 39	49	-0.0030
myo-inositol	729867	305	199164	3342.0 135:5	C00137	892	19 / 39	49	-0.0252
levoglucosan	569799	204	199201	0 143:451.0 144:40.0 145:48		2724705	19 / 39	49	-0.0157
guanosine	955831	324	213307	3:15157.0 13	C00387	6802	19 / 39	49	0.0140
guanine	744267	352	352795	32.0 189:151	C00242	764	19 / 39	49	0.0525
fructose 1 phosphate	800708	387	284388	5.0 153:2125.	C01094	65246	19 / 39	49	0.0114
erythritol	471274	205	200514	9:27.0 140:1	C00503	222285	19 / 39	49	-0.0226
conduritol beta epoxide	704838	318	367907	0 145:6432.0 147:20324.0 148:2828.0 149:			19 / 39	49	-0.0172
aspartic acid	480295	232	497687	0 1047.0 190:180.0 196:1.0 202:1497.0 20:			19 / 39	49	0.0198

ascorbic acid	672508	332	211436	0 162:4.0 163	C00072	5785	19 / 39	49	-0.0204
alpha ketoglutaric acid	507734	198	200425	0 151:3.0 153	C00026	51	19 / 39	49	-0.0303
4-hydroxyproline	481319	140	227980	0 214:231.0 :	C01015	825	19 / 39	49	-0.0131
urea	331223	171	199770	1895.0 135:4:	C00086	1176	18 / 39	46	0.0027
tryptophan	779834	202	199775	2.0 158:69.0 1	C00078	6305	18 / 39	46	0.0175
sucrose	916949	271	203674	0 133:29245.	C00089	5988	18 / 39	46	0.0315
stigmasterol	1111133	129	321615	:2702.0 140:2	C05442	5280794	18 / 39	46	0.0069
shikimic acid	610984	204	199162	250.0 135:25	C00493	8742	18 / 39	46	-0.0297
pantothenic acid	691214	103	205158	148:122.0 14	C00864	6613	18 / 39	46	0.0177
oxalic acid	259625	147	207563	0 166:4.0 168	C00209	971	18 / 39	46	0.0225
ethanol phosphate	316988	211	404433	183:61.0 185:200.0 186:3.0 195:86.0 196:1			18 / 39	46	-0.0109
dihydroabietic acid	849610	239	226283	50.0 185:101.0 186:54.0 188:		227277	18 / 39	46	-0.0238
2-monoolein	942197	129	203261	139:10.0 140:	C02112	5319879	18 / 39	46	0.0089
serine	396734	204	486007	1:152.0 151:34.0 155:97.0 156:115.0 157:2.			17 / 39	44	0.0015
octadecanol	754493	327	410809	0 167:349.0 1	D01924	8221	17 / 39	44	0.0085
beta-alanine	431950	248	227997	.0 156:93.0 1	C00099	239	17 / 39	44	0.0042
adipic acid	475399	111	218815	04.0 186:88.0	C06104	196	17 / 39	44	0.0437
2-aminoadipic acid	572700	260	213131	0.0 146:78.0 1	C00956	469	17 / 39	44	-0.0202
1-hexadecanol	679722	299	367920	1 201:78.0 204:	C00823	2682	17 / 39	44	0.0298
threitol	467314	217	202661	.0 175:76.0 177:24.0 180:1.		169019	16 / 39	41	0.0297
phenylethylamine	510041	174	438065	5.0 318:20.0 321:12.0 329:77.0 330:19.0 3:			16 / 39	41	0.0029
oleic acid	778858	339	199610	1:57.0 140:27.	C00712	445639	16 / 39	41	0.0427
mannose	645005	205	215860	191:46.0 193:	C00159	18950	16 / 39	41	-0.0003
kynurenine	769271	218	226885	537.0 151:11	C00328	161166	16 / 39	41	0.0233
isoheptadecanoic acid	750645	117	200398	0.0 166:1.0 167:14.0 168:6.0		10465	16 / 39	41	0.0479
inositol-4-monophosphate	845491	318	200698	3.0 150:42.0 :	C03546	440043	16 / 39	41	0.0709
icosenoic acid	848697	129	214000	1:26.0 155:4.0	C16526	5282767	16 / 39	41	0.0201
glucose-6-phosphate	806065	387	199915	50.0 150:20.0	C00092	5958	16 / 39	41	0.0288
cholesterol	1075918	129	372926	1145.0 133:11	C00187	5997	16 / 39	41	-0.0150
2-monopalmitin	889972	218	233239	3.0 142:193.0 144:727.0 14		123409	16 / 39	41	0.0114
2-hydroxybutanoic acid	257844	131	425498	4:673.0 185:	C05984	94318	16 / 39	41	0.0169
glycolic acid	229810	177	216047	201:24.0 204:	C00160	757	15 / 39	38	-0.0145
galactose-6-phosphate	817783	387	199932	.0 145:17.0 1	C00446	99058	15 / 39	38	0.0218
cystine	804143	218	223490	264.0 209:19.	C00491	67678	15 / 39	38	0.0239
acetophenone	238719	105	211899	0 316:1.0 319	C07113	7410	15 / 39	38	0.0294
1-monostearin	959625	399	202835	.0 136:127.0 :	D01947	24699	15 / 39	38	0.0852
1,5-anhydroglucitol	634023	217	386126	1.0 156:180.0	C07326	64960	15 / 39	38	0.0215
stearic acid	787358	117	199195	2.0 141:52.0 :	C01530	5281	14 / 39	36	0.0321
palmitic acid	711066	313	227993	:55.0 158:1.0	C00249	985	14 / 39	36	0.0395
mannitol	665530	103	241287	1315.0 130:87101.0 131:72352.0 132:4942			14 / 39	36	0.0174
hydroxycarbamate	325357	278	203241	1375.0 148:3406.0 149:167:		16639161	14 / 39	36	0.0464
fructose-6-phosphate	804605	315	201024	5.0 144:17.0	C00085	69507	14 / 39	36	0.0243
erythronic acid lactone	407645	147	200446	2149.0 149:1150.0 150:126.		5325915	14 / 39	36	0.0593
dodecanol	508488	243	218955	:3.0 149:51.0	C02277	8193	14 / 39	36	0.0806
dodecane	247379	98	221584	121:117.0 12	C08374	8182	14 / 39	36	0.0256
cysteine-glycine	715639	220	227594	221:840.0 22	C01419	439498	14 / 39	36	0.0425
azelaic acid	610175	317	225382	15095.0 132:	C08261	2266	14 / 39	36	0.0250
allo-inositol	675911	318	203304	55:3.0 156:12.0 157:71.0 15		53714838	14 / 39	36	0.0385
3-phosphoglycerate	609618	299	234616	:200.0 156:31	C00197	724	14 / 39	36	0.0663
2-phenylpropanol	319992	193	212666	:54.0 139:72.0 142:71.0 14:		447661	14 / 39	36	0.0608
2-ketoisocaproic acid	310629	200	213388	30:4.0 182:42	C00233	70	14 / 39	36	0.0775
pelargonic acid	399163	117	201810	:39.0 172:25.	C01601	8158	13 / 39	33	0.0575
myristic acid	634543	285	199929	143:1314.0 14	C06424	11005	13 / 39	33	0.0613
lauric acid	548310	117	374008	668.0 147:16	C02679	3893	13 / 39	33	0.0428
capric acid	451122	117	213517	2.0 242:1.0 2	C01571	2969	13 / 39	33	0.0766
5-methoxytryptamine	863982	174	200896	5:4171.0 176	C05659	1833	13 / 39	33	0.0023
quinic acid	630216	255	227967	.44:194.0 145	C00296	6508	12 / 39	31	0.0015
pentadecanoic acid	674704	117	203296	3:26.0 140:30	C16537	13849	12 / 39	31	0.0684
gluconic acid	693140	333	211990	5913.0 148:2!	C00257	10690	12 / 39	31	0.0735

3-aminoisobutyric acid	452732	174	267806	132:16524.0 1	C05145	64956	12 / 39	31	0.0327
uridine	856953	258	213127	.0 134:1761.0	C00299	6029	11 / 39	28	0.0546
methionine sulfoxide	637668	301	303827	5:441.0 206:488.0 214:4.0 217:17.0 218:30			11 / 39	28	0.0502
hydroxylamine	254242	146	348772	5:568.0 139:4	C00192	787	11 / 39	28	0.0654
histidine	663938	154	368048	1.0 145:572.0	C00135	6274	11 / 39	28	0.0741
caprylic acid	343899	201	331346	170.0 188:107	C06423	379	11 / 39	28	0.1087
benzoic acid	338714	179	386128	.0 171:12118	C00180	243	11 / 39	28	0.0662
arachidic acid	856203	117	201822	203:5.0 204:1	C06425	10467	11 / 39	28	-0.0122
allantoic acid	723133	100	206158	:3.0 154:10.0	C00499	203	11 / 39	28	0.0738
triethanolamine	530879	262	200764	0 154:1.0 155	C06771	7618	10 / 39	26	0.0765
tagatose	630162	307	325185	19.0 141:139	D09007	92092	10 / 39	26	0.0700
octadecane-1,12-diol	821168	187	321385	41:38.0 248:10.0 255:24.0 2		95421	10 / 39	26	0.0346
citrulline	622308	157	339415	35:69.0 186:5	C00327	9750	9 / 39	23	0.0842
citric acid	616681	273	232087	138:697.0 13	C00158	311	9 / 39	23	0.0419
spermidine	792258	144	200990	153.0 173:11.	C00315	1102	8 / 39	21	0.0907
ornithine	619715	142	268366	242.0 132:22	C00077	6262	8 / 39	21	0.1102
dihydrosphingosine	873228	204	445065	5.0 161:59.0 :	C00836	91486	8 / 39	21	0.0671
biuret	571672	171	228536	183.0 169:105	C06555	7913	7 / 39	18	0.0754
lysine	662967	156	237589	32:2538.0 184	C00047	5962	5 / 39	13	0.0901
glucose	650726	160	219881	13:36602.0 13	C00031	107526	5 / 39	13	0.1004

loadings for latent variable 1

loadings for latent variable 1

BinBase ID	Retention Index	Quantified Ion	Mass spectra (m/z : intensity)	proportion increased in tumors	% increased in tumors	O-PLS-DA model loadings for latent variable 1
288808	265523	232	7.0 184:5735.0	34 / 39	87	-0.1106
228983	466444	160	0 165:8.0 167	32 / 39	82	-0.0726
241389	643179	204	37.0 199:9.0 2	32 / 39	82	-0.0574
622135	455205	171	43.0 165:3.0 1	32 / 39	82	-0.1089
227703	508685	299	109.0 213:50.	31 / 39	79	-0.0854
242128	412533	116	46:2482.0 14	31 / 39	79	-0.0713
369621	413958	88	48:209.0 149:	31 / 39	79	-0.0595
385065	1147670	204	786.0 190:104	30 / 39	77	-0.0475
650627	530871	188	106.0 188:24	30 / 39	77	-0.1038
203221	508975	268	510.0 136:75	29 / 39	74	-0.0765
229203	840930	94	54.0 156:71.0	29 / 39	74	-0.0485
293848	895697	290	218:179.0 21	29 / 39	74	-0.0661
369589	914459	246	5.0 137:106.0	29 / 39	74	-0.0483
640528	585690	217	149:7540.0 1	29 / 39	74	-0.0921
200906	565964	275	4:1666.0 145:	28 / 39	72	-0.0593
218839	577533	186	2384.0 149:1	28 / 39	72	-0.0541
222199	967501	114	1:392.0 152:4	28 / 39	72	0.0122
208557	294136	172	141:105.0 14	27 / 39	69	-0.0789
213968	452663	252	6.0 167:27.0	27 / 39	69	-0.0962
227675	630481	292	678.0 220:21	27 / 39	69	-0.0445
349922	521251	231	166:16.0 1	27 / 39	69	-0.0532
227832	627964	226	151:24.0 152	26 / 39	67	-0.0847
236890	628019	217	151:20.0 15:	26 / 39	67	-0.0902
362056	841774	129	156:100.0 15:	26 / 39	67	-0.0455
626305	762013	192	55:10.0 169:5	26 / 39	67	-0.0541
199553	594210	292	140:67.0 14	25 / 39	64	-0.0595
211972	473115	98	158:129.0	25 / 39	64	-0.0454
213974	991296	169	192:3.0 196:6	25 / 39	64	-0.0925
221505	752306	369	12.0 161:11.0	25 / 39	64	-0.0584
289052	515010	186	233:13.0 2	25 / 39	64	-0.0372
362144	674153	174	178:3.0 18:	25 / 39	64	-0.0329
414988	616859	86	20:51.0 122:1	25 / 39	64	0.0114
200791	800737	217	8.0 161:103.	24 / 39	62	-0.0301
310871	557438	252	168:3.0 171:1	24 / 39	62	-0.0076
343526	477455	188	5:521.0 147:2	24 / 39	62	-0.0431
357054	302713	307	139:47.0 14	24 / 39	62	-0.0695
367991	525157	188	3.0 144:1065	24 / 39	62	-0.0623
428311	471511	85	146:26.0 14	24 / 39	62	-0.0203
437302	565008	275	3:1.0 144:591	24 / 39	62	-0.0483
203311	1190822	204	55:46.0 156:8	23 / 39	59	-0.0615
213697	456893	232	95.0 158:274	23 / 39	59	-0.0455
221606	580123	159	185:4.0 18	23 / 39	59	-0.0443
227767	523660	211	153:115.0 15	23 / 39	59	-0.0019
238267	1122259	361	238267	23 / 39	59	-0.0337

300148	559473	99	4:134.0 125:4	23 / 39	59	-0.0397
476001	822491	111	012.0 156:158	23 / 39	59	-0.0132
288019	911896	259	.0 170:296.0	22 / 39	56	-0.0563
418858	321024	86	) 140:671.0 1	22 / 39	56	-0.0364
200914	550216	275	2:1198.0 143	21 / 39	54	-0.0218
200942	783186	100	151:16.0 152	21 / 39	54	-0.0509
213253	280269	86	:65.0 127:33	21 / 39	54	-0.0419
227352	927021	132	'0.0 153:325.0	21 / 39	54	0.0191
236652	567535	99	50.0 156:298	21 / 39	54	-0.0103
238321	937421	361	1:128.0 193:1	21 / 39	54	0.0098
291025	588283	174	182:2.0 193:1	21 / 39	54	-0.0392
362008	528050	217	.262.0 136:19	21 / 39	54	-0.0144
498712	297024	113	0:101.0 152:8	21 / 39	54	0.0003
537746	409445	219	36.0 161:167	21 / 39	54	-0.0064
208664	505151	140	0 142:1.0 143	20 / 39	51	-0.0358
211919	401728	194	.0 200:4.0 20	20 / 39	51	0.0394
219484	406246	227	6:187.0 148:5	20 / 39	51	-0.0268
268050	818135	174	.0 169:94.0 1	20 / 39	51	0.0003
309540	741287	117	0 157:208.0 1	20 / 39	51	0.0067
321685	843904	217	:408.0 146:6	20 / 39	51	-0.0024
362021	718276	174	1.0 187:25.0	20 / 39	51	-0.0210
438099	478631	159	.0 140:191.0	20 / 39	51	0.0126
605658	291772	187	089.0 116:86	20 / 39	51	0.0118
614531	533559	102	0 159:9.0 168	20 / 39	51	-0.0008
629270	844751	85	8:33.0 139:25	20 / 39	51	0.0372
673048	588927	184	4.0 152:163.0	20 / 39	51	0.0170
696799	312044	228	5:203.0 156:2	20 / 39	51	0.0086
704472	586975	105	) 195:507.0 1	20 / 39	51	-0.0179
199942	431285	104	7.0 174:21.0	19 / 39	49	-0.0221
200961	937853	204	2:3.0 163:3.0	19 / 39	49	0.0012
211467	832207	98	165:13.0 166	19 / 39	49	-0.0165
218821	726446	174	3.0 142:54.0 1	19 / 39	49	-0.0056
222099	590692	197	1.0 167:257.0	19 / 39	49	-0.0046
223521	1166398	283	.0 267:119.0	19 / 39	49	0.0141
226272	563299	294	72:36.0 174:3	19 / 39	49	0.0038
228872	609571	140	1.0 204:128.0	19 / 39	49	0.0281
232095	981412	352	0 176:295.0 1	19 / 39	49	0.0173
240432	1100168	295	268.0 250:136	19 / 39	49	0.0142
241065	837646	116	2:39.0 243:59	19 / 39	49	-0.0122
268312	438220	114	5:137.0 153:5	19 / 39	49	-0.0033
269268	708688	174	0 171:67.0 17	19 / 39	49	0.0205
270547	1198470	220	79:383.0 181	19 / 39	49	0.0102
274206	335001	249	7:407.0 188:7	19 / 39	49	0.0195
281910	362277	140	58.0 171:173	19 / 39	49	0.0153
289049	744413	352	3.0 158:795.0	19 / 39	49	0.0527
309631	232910	130	31:5024.0 132	19 / 39	49	-0.0072
356938	895137	247	60:91.0 161:5	19 / 39	49	-0.0067
362113	718240	174	46.0 220:54.0	19 / 39	49	-0.0306
445906	290888	145	11.0 115:969	19 / 39	49	-0.0135
537763	527270	142	30.0 165:26.0	19 / 39	49	-0.0169
566628	730536	217	42.0 158:344	19 / 39	49	-0.0197
617556	294282	187	2546.0 148:6	19 / 39	49	0.0373
693690	321918	86	) 249:18.0 27	19 / 39	49	0.0355
701048	840947	159	238:13.0 242	19 / 39	49	-0.0112
199213	589860	217	.0 180:2.0 18	18 / 39	46	0.0154
199239	773115	211	.0 156:102.0	18 / 39	46	-0.0012
199786	637184	174	.0 169:32.0 1	18 / 39	46	0.0257
200484	800844	163	2.0 183:2.0 1	18 / 39	46	0.0302
203295	899587	94	0.0 138:40.0	18 / 39	46	0.0005

213386	565582	241	0.0 225:10.0	18 / 39	46	-0.0143
222049	701919	117	.32:84.0 133:	18 / 39	46	-0.0205
226851	788409	373	39:67.0 140:2	18 / 39	46	0.0667
231850	878626	122	141:280.0 14	18 / 39	46	0.0390
232869	631360	245	160.0 146:11	18 / 39	46	-0.0044
269269	692363	204	00:59.0 201:	18 / 39	46	0.0213
274743	445506	109	0 211:185.0	18 / 39	46	0.0058
281951	246515	187	.0 134:3278.0	18 / 39	46	0.0132
285341	240517	244	138:472.0 13	18 / 39	46	-0.0370
295010	292802	88	.0 199:192.0	18 / 39	46	-0.0278
300280	498851	85	5.0 259:3.0 2	18 / 39	46	0.0040
307909	698816	218	.0 155:139.0	18 / 39	46	-0.0119
309730	525387	149	156:988.0 15	18 / 39	46	-0.0117
322652	594784	116	36:1.0 191:26	18 / 39	46	-0.0156
330990	1224935	207	:244.0 191:5	18 / 39	46	-0.0339
356985	542812	102	2:84.0 144:15	18 / 39	46	-0.0049
474686	794069	131	156:5.0 157:	18 / 39	46	-0.0096
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200421	324479	100	:14.0 161:3.0	17 / 39	44	0.0015
207223	417541	142	1.0 152:27.0 1	17 / 39	44	-0.0153
216860	600185	292	.0 207:82.0 2	17 / 39	44	-0.0048
222050	606068	223	0 141:384.0 1	17 / 39	44	-0.0181
223191	510626	185	516.0 156:2.0	17 / 39	44	0.0000
223597	1204498	297	95:12.0 296:2	17 / 39	44	0.0194
232722	765061	424	4:25.0 166:24	17 / 39	44	0.0544
241881	1181077	295	.0 235:71.0 2	17 / 39	44	-0.0365
270439	637911	260	0 174:604.0 1	17 / 39	44	0.0238
273745	317543	211	.84:621.0 185	17 / 39	44	-0.0089
293007	536494	200	3.0 162:23.0 1	17 / 39	44	0.0123
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303839	916380	204	0 193:8.0 194	17 / 39	44	0.0208
452091	781399	101	:2051.0 146:	17 / 39	44	0.0392
455340	1030001	299	.0 181:389.0	17 / 39	44	0.0419
475619	243434	137	121:58.0 127:	17 / 39	44	-0.0124
483487	235984	110	7.0 224:7.0 22	17 / 39	44	-0.0075
597213	634167	129	1145:621.0 14	17 / 39	44	0.0397
621949	690712	174	156:276.0 157	17 / 39	44	-0.0151
199609	1246841	129	10:16.0 141:3	16 / 39	41	0.0024
200411	595016	116	146:36.0 147:	16 / 39	41	-0.0063
201042	298036	132	1.0 211:1.0 2	16 / 39	41	-0.0177
201862	1134655	441	.39:75.0 140:	16 / 39	41	0.0411
204425	448206	350	150:194.0 15	16 / 39	41	0.0344
208201	422868	85	4:5.0 155:4.0	16 / 39	41	-0.0204
212022	421363	234	6:10.0 177:8:	16 / 39	41	-0.0083
216428	505415	223	.0 164:1.0 16	16 / 39	41	-0.0180
218512	437089	156	:481.0 142:90	16 / 39	41	-0.0254
223973	1028825	243	2:15.0 193:3	16 / 39	41	0.0592
227017	801098	98	.0 157:453.0	16 / 39	41	0.0702
228885	250227	85	8.0 142:990.0	16 / 39	41	0.0596
234717	628281	214	228:6.0 236	16 / 39	41	0.0097
242417	374883	283	9.0 161:291.0	16 / 39	41	0.0179
267647	959212	204	143:7724.0 14	16 / 39	41	0.0062
272365	240766	244	177.0 168:34.	16 / 39	41	-0.0456
273773	240889	137	53479.0 136:8	16 / 39	41	-0.0196
281926	266383	227	3:66.0 167:5:	16 / 39	41	-0.0168
300139	457148	85	0 169:1159.0	16 / 39	41	0.0185
301584	247575	184	48:2198.0 15	16 / 39	41	0.0270
310249	533908	154	70:286.0 184	16 / 39	41	-0.0371
312592	844853	331	9:1489.0 170:	16 / 39	41	0.0218

330991	1240953	208	03:76.0 205:6	16 / 39	41	0.0257
362112	379612	159	1:369.0 172:9	16 / 39	41	0.0414
367932	380080	170	3.0 160:680.0	16 / 39	41	0.0167
367980	911810	375	2.0 167:1.0 16	16 / 39	41	0.0420
369729	629749	202	517.0 202:309	16 / 39	41	0.0178
381876	291302	130	130:6052.0	16 / 39	41	-0.0204
470303	433814	172	93.0 175:12.0	16 / 39	41	0.0503
616767	235306	128	11.0 201:18.0	16 / 39	41	-0.0154
617346	765617	152	153:415.0 180	16 / 39	41	0.0171
620889	1081211	208	255.0 254:87	16 / 39	41	0.0109
696208	648089	154	55:16.0 284:4	16 / 39	41	0.0360
200850	493847	85	0:14.0 322:1.0	15 / 39	38	0.0660
204426	479219	155	3:81.0 175:2.	15 / 39	38	0.0195
211997	1100607	309	170:3.0 172	15 / 39	38	0.0658
213353	695971	293	3:331.0 149:4	15 / 39	38	0.0450
214426	694613	318	148:753.0 1	15 / 39	38	0.0062
218449	458393	254	168:11.0 17	15 / 39	38	0.0120
222093	573506	155	4:10.0 166:1.0	15 / 39	38	0.0313
222115	249620	85	58203.0 148:	15 / 39	38	0.0032
225446	383070	156	.0 166:88.0 1	15 / 39	38	0.0242
231657	286430	187	43:4638.0 14	15 / 39	38	0.0812
239585	596598	85	183:136.0 18	15 / 39	38	0.0149
241271	615712	176	.0 138:708.0	15 / 39	38	0.0261
267765	1000928	174	2.0 160:111.0	15 / 39	38	0.0247
269146	237538	110	74.0 127:270	15 / 39	38	-0.0329
269776	329088	117	1:23692.0 17	15 / 39	38	0.0483
270086	339656	157	161:2.0 164:6	15 / 39	38	0.0536
271128	611642	312	5:91.0 197:11	15 / 39	38	0.0486
409349	762401	98	40:209.0 141	15 / 39	38	-0.0053
455826	856197	187	161:3.0 163:2	15 / 39	38	0.0391
508725	413447	175	6:294.0 147:1	15 / 39	38	0.0322
615131	888025	218	3:136.0 139:3	15 / 39	38	0.0112
616647	627752	120	5:684.0 136:	15 / 39	38	0.0117
616805	902913	108	133:8700.0 1	15 / 39	38	0.0108
673413	309265	170	01:40.0 303:5	15 / 39	38	0.0150
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202687	782008	357	152:124.0 1	14 / 39	36	0.0169
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203761	1250082	309	0 220:1.0 221	14 / 39	36	0.0174
213296	299506	146	.0 177:53.0 1	14 / 39	36	0.0433
217893	708324	223	7:44.0 158:3.0	14 / 39	36	-0.0136
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222169	975088	144	359.0 159:126	14 / 39	36	0.0379
228587	601084	218	13:3922.0 144	14 / 39	36	0.0306
229201	693537	230	0.0 170:261.0	14 / 39	36	0.0335
241572	1082682	299	2.0 177:313.0	14 / 39	36	0.0445
242219	853373	132	2:2.0 235:6.0	14 / 39	36	0.0162
303845	873301	174	:471.0 218:11	14 / 39	36	0.0323
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379432	504508	85	26401.0 150:4	14 / 39	36	0.0378
408490	968624	185	43:109.0 158:	14 / 39	36	0.0377
419631	685378	149	283:16.0 28	14 / 39	36	0.0422
428330	762332	85	38:4.0 140:13	14 / 39	36	0.0427
483342	706083	91	134:4080.0	14 / 39	36	0.0102
497413	315841	161	43:37.0 144:6	14 / 39	36	0.0387
704387	581257	313	11:2154.0 21	14 / 39	36	0.0125
200471	568970	97	7:743.0 128:	13 / 39	33	0.0615
202664	353284	85	0.0 234:1.0 24	13 / 39	33	0.0485
204079	424144	138	15:1.0 227:52	13 / 39	33	0.0654

206556	424318	85	0:7.0 171:2.0	13 / 39	33	0.0168
225555	685994	266	13:20.0 216:1	13 / 39	33	0.0208
232017	571888	197	0 145:308.0 1	13 / 39	33	-0.0097
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270073	310098	200	2.0 156:279.0	13 / 39	33	0.0749
270999	412676	191	55:1403.0 15	13 / 39	33	0.0421
300129	371476	85	4.0 199:228.0	13 / 39	33	0.0198
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308912	795917	174	3.0 157:4.0 15	13 / 39	33	0.0786
317187	809952	387	3.0 148:1030.	13 / 39	33	0.0320
356957	692437	229	13:16.0 216:4	13 / 39	33	-0.0058
408731	397310	97	2.0 167:125.0	13 / 39	33	0.0571
508989	641301	175	4.0 145:307.0	13 / 39	33	0.0562
558744	283909	201	160:2177.0	13 / 39	33	0.0688
624232	380326	113	025.0 157:90	13 / 39	33	0.0488
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201887	1200427	316	150:30.0 151	12 / 39	31	0.0193
204522	475916	85	4.0 167:2.0 16	12 / 39	31	0.0401
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212251	888557	387	160:3.0 162:9	12 / 39	31	0.0256
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225384	849622	338	137:429.0 1	12 / 39	31	0.0602
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356925	648085	174	2268.0 176:9	12 / 39	31	0.0295
359447	905449	159	0 159:3172.0	12 / 39	31	0.0840
419655	803124	85	1:208.0 212:3	12 / 39	31	-0.0136
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616800	867822	144	36:75.0 137:5	12 / 39	31	0.0252
210286	701682	217	35:846.0 136:	11 / 39	28	0.0284
211946	470440	184	71:6.0 172:20	11 / 39	28	0.0798
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348578	469815	191	1:11.0 163:1	11 / 39	28	0.0679
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626325	613559	121	43:139.0 190	11 / 39	28	0.0799
225283	530734	262	1:75.0 201:48	10 / 39	26	0.0676
233287	641829	201	10:442.0 141:	10 / 39	26	0.0504
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228143	673081	187	40:749.0 141:	9 / 39	23	0.0539
234567	775045	235	.0 201:10.0 2	9 / 39	23	0.0772
238437	905447	174	.0 249:42.0 2	9 / 39	23	0.0565
268506	301113	216	142:53.0 143	9 / 39	23	0.0804
288810	274062	152	89.0 154:161	9 / 39	23	0.0565
309642	227707	173	57.0 145:153	9 / 39	23	0.0700
356987	630673	102	8.0 119:303.	9 / 39	23	0.0492
474826	846935	98	35:617.0 136:	9 / 39	23	0.0968
199794	681176	361	138:92.0 139	8 / 39	21	0.0938
199806	701060	204	3:2.0 154:4.0	8 / 39	21	0.0996
227601	284985	188	181:1.0 184:	8 / 39	21	0.0908
267824	751322	174	59:4.0 170:64	8 / 39	21	0.0896
270977	867673	375	2.0 249:2.0 2	8 / 39	21	0.0662
199777	675254	217	0 139:93.0 14	7 / 39	18	0.0993
217797	655403	273	37.0 138:309.	6 / 39	15	0.0508
223121	859963	204	8:8.0 169:74	6 / 39	15	0.0352
218951	686095	187	46.0 145:328	5 / 39	13	0.0581