

Gene_ID	eH2/aH2 expression ratio	p-value	eH2 mean exp.	aH2 mean exp.
SAV_1007	0.418039411021787	0.9577129520	4.06779262591818	9.73064385478759
SAV_102	0.49632980146616	0.9792709456	11.2249308816593	22.6158712382388
SAV_103	0.606337249729978	0.9591243469	6.96214239661107	11.4822937230255
SAV_1037	0.456309062898295	0.9722807292	2.07547318297759	4.5483935159977
SAV_1038	0.788928694258893	0.9502786333	110.972380069855	140.662116712716
SAV_1048	0.742827851321426	0.9755730136	249.470513758347	335.838934033721
SAV_1049	0.696919439851901	0.9837870265	136.88078450091	196.408331686081
SAV_105	0.502189138802093	0.9722880703	3.63637947402457	7.24105559650032
SAV_1061	0.696866899786757	0.9559174884	50.1900585104402	72.022445786704
SAV_1083	0.293058984353292	0.9982302622	30.5192645051537	104.140347624906
SAV_1085	0.70288289100525	0.9610868623	85.9928773868444	122.343107916397
SAV_109	0.6172030396984	0.9739798952	12.7890740028134	20.7210159059859
SAV_1101	0.511841525434558	0.9664332611	17.4060965418929	34.0068081172487
SAV_111	0.286655176313803	0.9830984656	0.76495826594694	2.66856603039164
SAV_1110	0.450678405627731	0.9750997193	3.45027547739917	7.65573729363275
SAV_1122	0.26113569161678	0.9983606174	7.95099608192331	30.4477569982716
SAV_1127	0.55245618384279	0.9847601615	53.0990580582898	96.1145147999646
SAV_114	0.271759589029337	0.9989028958	38.0230144674011	139.914159434854
SAV_1147	0.669895899255512	0.9695086715	17.9819898629042	26.8429615450527
SAV_1148	0.57914245216371	0.9687938027	11.3351821413589	19.5723558150676
SAV_1149	2.69522390869989	0.9906997087	280.34111216617	104.01403432986
SAV_115	0.405026734263301	0.9849168824	10.4982584161759	25.9199147317302
SAV_1153	0.811261894060557	0.9805106828	285.630223208564	352.081399730138
SAV_1196	0.633019746871464	0.9531488505	2.07414146750935	3.27658256754273
SAV_1201	1.6744647921915	0.9632421071	161.8014582246154	36.9081861337504
SAV_1219	1.7401074724879	0.9950246899	2014.54916525949	1157.71536937268
SAV_1220	1.62902024031472	0.9573573511	112.883631196997	69.2954135273287
SAV_1230	0.546620330348672	0.9559678983	48.6828118858732	89.0614731706374
SAV_1235	0.628104639126488	0.9995339728	240.292326922907	382.567349378416
SAV_1236	0.482850739615684	0.9999930504	348.827428892028	722.433249599391
SAV_1238	0.570637851076816	0.9800842677	30.0703119114335	52.6959644452075
SAV_1246	0.542046682957548	0.9529693949	4.35034736041573	8.02577987689012
SAV_1247	0.642662880111309	0.9543881759	16.6692065975123	25.9377149565962
SAV_1266	0.675500997800987	0.9640361233	13.4758354850961	19.9493939001794
SAV_1273	0.582260586268505	0.9835748515	50.0837824074501	86.0160958659742
SAV_1283	0.168725053901547	0.9983849440	10.6550158986537	63.1501703645685
SAV_1284	0.370334992467089	0.9881294804	15.2524227507253	41.185475477532
SAV_1304	0.516768379708206	0.9789652593	3.30696192916599	6.3993116820214
SAV_1307	0.630446464869799	0.9958627459	156.206347346453	247.770994129871
SAV_1308	0.619296115749574	0.9881876033	44.9254123408465	72.5427000078474
SAV_1309	0.535222746906639	0.9850549326	23.8642349025338	44.5874825770373
SAV_131	0.201972577682986	0.9802751806	0.393488277813614	1.94822625094793
SAV_1311	0.45972733166013	0.9754041517	0.712544274587353	1.54992802367062
SAV_1346	0.581067515574416	0.9573416237	1.06611219735257	1.83474754443752
SAV_1399	0.749329225691901	0.9908411734	581.109555897283	775.506327490042
SAV_1400	0.824820188686022	0.9710864366	264.359935422745	320.506140670348

SAV_1411	0.564915546902607	0.95943755956.41497467085956	11.3556348484874
SAV_1417	0.490712324810795	0.97841447055.04080696036625	10.2724278676103
SAV_1418	0.497710362377496	0.979564323380.975924105667371	1.96082737961394
SAV_1429	0.813776842755934	0.9624775215162.800454113996	200.055402857934
SAV_1430	0.779647139763643	0.9849660205261.332017729562	335.192684486455
SAV_1431	0.766671313795533	0.9735303383116.341329500938	151.748640398414
SAV_1436	0.544126334886672	0.981152386419.1899394439221	35.2674337071351
SAV_1437	0.69110807305013	0.954027998232.3500504674819	46.8089604636052
SAV_1448	0.619645724422425	0.975276851510.1262268880296	16.3419620097731
SAV_1458	0.473207904033065	0.988369457514.8448952983102	31.3707678417665
SAV_1459	0.49458982270725	0.992947416717.158104601812	34.6915844484895
SAV_1460	0.49526046197206	0.998313894666.4172135688733	134.1056245524
SAV_1485	0.800007866192031	0.9595442647100.336169516241	125.418978683088
SAV_1487	0.601543054561554	0.971974672026.0769892842149	43.3501626965365
SAV_1496	0.286707683349644	0.995701891118.1453627418069	63.288721564111
SAV_1500	0.660327862544467	0.962233835716.0436191190059	24.2964442802465
SAV_1513	0.684325418238928	0.973173562839.7566815875561	58.0961637956802
SAV_1527	0.718305231654902	0.958314834324.7410696693445	34.4436718250591
SAV_1531	0.582431794712616	0.984460811736.4664400877983	62.6106617441646
SAV_1544	0.589112400465308	0.96393291878.30547394331953	14.0982840231499
SAV_1548	0.735663254991646	0.954740968235.6186239404874	48.4170219170344
SAV_1569	0.436846003884958	0.98234528603.83626427865901	8.78173142146742
SAV_1570	0.473052591667199	0.97553246844.32558407261499	9.14398134332201
SAV_1578	0.458398137682703	0.99205644978.57204956377714	18.7000095748875
SAV_1579	0.38854654452374	0.999582403040.53062721129	104.313441420436
SAV_1580	0.377589262068886	0.998244888018.9990332691751	50.3166672830569
SAV_1581	0.414940328658555	0.995999514916.7013816371801	40.250080514404
SAV_1582	0.360570096524589	0.9999999999108.217538734251	300.128989556601
SAV_1583	0.445176066972187	0.9992782569108.592624733934	243.931857057173
SAV_1588	0.59343447682133	0.96999157002.83771264361012	4.78184661398514
SAV_1589	0.740510706808747	0.973559930090.8149819200089	122.638310405232
SAV_1590	0.757855292877884	0.9801351011201.018982574044	265.247184341345
SAV_16	0.506802388492009	0.96282871741.48302821015383	2.92624550284102
SAV_1611	0.623750877485711	0.95909529363.30323761869214	5.29576428334213
SAV_1630	0.554951782671709	0.976464888557.0378819000606	102.779887696662
SAV_1631	0.557664020088306	0.974496478637.3637518991919	67.0004708090641
SAV_1632	0.603001961784484	0.958460466722.779232971343	37.7763828560883
SAV_1633	0.551339961084003	0.977237365778.0599583884743	141.58226121502
SAV_1645	0.660229991677581	0.9907843954114.024032054899	172.703502555488
SAV_1646	0.646201185118961	0.9973600980197.33257683875	305.373282165093
SAV_1647	0.744954194826919	0.9839128565108.487037419186	145.629138237676
SAV_1648	0.629647570401836	0.9949770662112.962293014351	179.405588656936
SAV_1649	0.647155838362624	0.979209812830.8351681318644	47.6472069075059
SAV_1650	0.632293546325074	0.9900760142108.074866751368	170.925146048865
SAV_1652	0.719736827743893	0.9948223323366.817631319349	509.655220046452
SAV_1657	0.650655520645676	0.96799683257.58543769971613	11.6581469902672
SAV_1660	0.76911621160205	0.952880033462.1238503010367	80.7730345088348

SAV_1661	0.712536924539283	0.959055851926.0926537127997	36.6193706096998
SAV_1664	0.579415393451487	0.988730762141.8424464306211	72.2149375103277
SAV_1711	1.77991045649369	0.962871942046.1774437976685	25.9436892621189
SAV_1714	0.614084981456815	0.979870287814.1803294065722	23.0918029829222
SAV_172	0.32817878462697	0.97291107981.27272596878158	3.87814821798504
SAV_1722	0.545388366629636	0.98656982068.56722870038728	15.7084918281822
SAV_1727	0.599658191199908	0.95618440672.04522091466694	3.41064450495453
SAV_173	0.183320313382202	0.98883221760.497200855196478	2.71219727930461
SAV_175	0.299219865238494	0.97851670521.93729202767159	6.4744766398697
SAV_1751	0.63959199747513	0.95523713815.70293272456243	8.91651669669957
SAV_1756	0.532589645618281	0.97132915973.55804975329527	6.68065889483215
SAV_1762	0.604344931275566	0.965096729118.1881897121567	30.0957098684813
SAV_177	0.267171292105487	0.98500217451.1500549652651	4.30456040468235
SAV_1775	0.620957485849978	0.96061640771.82683247965286	2.9419606354407
SAV_178	0.27608449451928	0.98467240870.547112518525567	1.9816850615903
SAV_1794	0.583579544008506	0.95344420711.3614687746288	2.332961784913
SAV_1798	0.524984670726133	0.97055744561.51227864349791	2.88061485948952
SAV_180	0.278947083699255	0.97482577380.701591490642578	2.51514187328445
SAV_1816	0.684080890050366	0.9907949899105.763029651332	154.606028599257
SAV_1819	0.433986394719174	0.993121797622.3967635153076	51.6070636956262
SAV_182	0.392321963378696	0.96752560152.32892373911358	5.93625633155171
SAV_1820	0.478141311623152	0.9995857468113.235619191572	236.824588126823
SAV_1821	0.60468785774694	0.96382466454.25461124364982	7.03604543921628
SAV_1824	0.405551380531633	0.97969550530.823206133393555	2.02984423900721
SAV_1825	0.394535185323778	0.97911504240.829517160695748	2.10251757397759
SAV_1826	0.405694014495612	0.97968536131.47326455688764	3.63146732327148
SAV_1827	0.416898385064496	0.96257243370.861838802469073	2.06726347077536
SAV_1829	0.53577261841231	0.96459349176.41596899828841	11.9751715145527
SAV_1849	1.39880739342001	0.9844983601451.544555889517	322.8068124415
SAV_185	0.351610331638917	0.96274038862.70257266658247	7.68627205573087
SAV_1852	0.607437784693759	0.97511990055.55567471837861	9.14608023796135
SAV_1853	0.524942922545749	0.96796143372.34438252102199	4.46597605250631
SAV_1854	0.531700594910281	0.95970636491.30878309875935	2.46150392022825
SAV_186	0.321273224736914	0.95790557910.886880433738396	2.76051773210995
SAV_1863	0.553867157970379	0.990816070531.9204068515192	57.6318822883272
SAV_1864	0.551109114338405	0.991760604538.8126466121231	70.4264284554917
SAV_1867	0.625431489330035	0.95715803868.7843189531249	14.0452137492065
SAV_1885	0.608567044150779	0.960521660532.2665143654253	53.0204760109076
SAV_189	0.303728911010509	0.97016991510.435276376964237	1.43310814738073
SAV_190	0.292167216038919	0.95237993030.450180444970354	1.5408314836747
SAV_1901	0.620906864124431	0.972664299415.6287761498602	25.1708864128907
SAV_1902	0.730064454147685	0.9915633727327.873635122157	449.102313171696
SAV_1906	0.536556253764971	0.9948632350161.910814971488	301.759254198182
SAV_1911	2.74082373803651	0.979754958257.3986097792826	20.9421018151288
SAV_1916	0.724948041386897	0.964973356269.5891565158324	95.9919229282991
SAV_1917	0.710601512088993	0.972568536041.0356230171115	57.7477282541616
SAV_1942	4.61938326993014	0.989400116686.585955597001	18.7440509993254

SAV_1944	0.467697600439787	0.979417844115.9497068711798	34.1026057353767
SAV_1947	0.722638160146372	0.951001024225.4364311855939	35.1994021190933
SAV_1949	0.725824002466058	0.965825626565.0641057324082	89.6417113671448
SAV_1952	0.68799110363201	0.974550443253.0201057799418	77.0651037492208
SAV_1953	0.687133191671288	0.979206664660.0326186529519	87.3667862076883
SAV_196	0.168853830660174	0.99828344548.32089620327032	49.2786937124126
SAV_197	0.107700017716096	0.99639833470.535888731497946	4.97575342012092
SAV_1975	1.67188255683983	0.959532259074.5872404028558	44.612727190503
SAV_1976	2.28061873470527	0.958579103810.6182509736804	4.65586413550735
SAV_198	0.119326208582265	0.99713636290.756229299412092	6.3374954119215
SAV_199	0.0994798490209149	0.99848145280.386322519106364	3.88342486351324
SAV_1990	0.441192978753495	0.95667757227.19400378028974	16.305798430009
SAV_1991	0.667943535237029	0.95213636902.05157597146449	3.0714811405974
SAV_1998	0.594195547631888	0.95569912226.92130442824196	11.6481930162994
SAV_2023	0.533747343152354	0.96471975671.1631211521679	2.17916054682055
SAV_2029	0.618226544315999	0.980275098527.8236883766539	45.0056514597538
SAV_2030	0.407206001135473	0.996440627238.136898822666	93.6550510462105
SAV_2031	0.422926867275496	0.998330182847.5909099157724	112.527516216584
SAV_2034	0.583739196088045	0.96736042668.35477269675452	14.3125093410626
SAV_2040	0.757360960636447	0.963260440266.8351071137832	88.2473623377926
SAV_2046	1.99487382572782	0.95626265446.559270886361	23.339456503909
SAV_2050	0.76226528946638	0.9634588702165.289944767562	216.84044525138
SAV_2058	0.441902052641284	0.969621164616.3459263277404	36.9899307551062
SAV_2066	0.692481165888178	0.961074722326.0368099523932	37.5993041182547
SAV_2067	0.706666664943443	0.9797603290124.296846930204	175.89176495279
SAV_2069	0.700537310618983	0.963060381640.4922765312163	57.80174148817
SAV_2075	0.693869291024526	0.9629630761318.357362393048	458.814601699667
SAV_2076	0.693072862485674	0.951224593531.3553427036273	45.2410480929419
SAV_2083	0.528332140485684	0.95107985981.57921528532887	2.98905776180327
SAV_2089	0.464184153276585	0.988241243410.003529691707	21.5507781148797
SAV_21	0.687377973416572	0.952944958226.6857150857394	38.8224763052846
SAV_2108	0.609015034235313	0.95354714332.47005886228621	4.05582575705647
SAV_2114	0.411148649127912	0.97897976452.55104100337338	6.20466833293603
SAV_2115	0.641222183278788	0.96186181465.9698390741007	9.31009442557785
SAV_2116	0.376295767809285	0.99562950401.22599592833363	3.25806462153726
SAV_2141	0.761073229823737	0.9755503372349.169002999967	458.78502792804
SAV_2143	0.477435514133546	0.990920158719.1564822399652	40.123706077313
SAV_2144	0.41997749553028	0.993600969210.3732902170302	24.699633498058
SAV_2145	0.426836069697525	0.994128051012.4110955296662	29.0769604791396
SAV_2151	0.816476983572735	0.9795194638201.065846792868	246.260275351603
SAV_2152	0.688842343822507	0.967475515441.1389766995728	59.7219045381058
SAV_2155	0.493521132989442	0.988876993750.0370271899271	101.387810663414
SAV_2158	0.611138924518078	0.965990935411.9664412685904	19.5805581816388
SAV_2170	0.401083147976155	0.98372308310.865724383000889	2.15846611200019
SAV_2172	0.600449176595613	0.9558995761104.901930558289	174.705761365275
SAV_2183	0.600097467605958	0.95211068441.31514933328749	2.19155954537548
SAV_2194	0.394558333202362	0.98719279470.768542980397	1.94785641494189

SAV_2209	1.36107742901808	0.9737581903	1514.91147626953	1113.02372956286
SAV_2210	1.38675941907458	0.9675810537	1342.25753136315	967.909439013491
SAV_2211	1.52950090574628	0.9777639684	2083.57233770456	1362.25636080152
SAV_2217	0.575363806388955	0.96429763912	6.9021213448834	4.67567147014756
SAV_2224	0.258718167460803	0.98849929614	7.780326987946	18.4680988802941
SAV_2234	1.60205981761367	0.95910795978	65.333457761875	540.138044939436
SAV_2248	1.73683797450709	0.9648087708	88.5835012028938	51.0027432052396
SAV_2249	0.514251177414797	0.98323895518	1.7814701666402	15.9030205001699
SAV_2251	0.586215174528279	0.9882461990	32.3329609811525	55.1554486919764
SAV_2261	0.667347392599889	0.9759117559	51.0332006723437	76.4717165875568
SAV_2262	0.59849836172909	0.9889212972	184.574711282828	308.396351745363
SAV_2266	0.472341377185732	0.9686825469	1.17085195392904	2.47882571902788
SAV_2267	0.470061769201942	0.9755730096	1.03330606397834	2.19823463995521
SAV_2269	0.488968153090062	0.9806907838	8.38695457535206	17.1523534249628
SAV_2270	0.711540582484521	0.9604699708	42.7980172743728	60.1483855283881
SAV_2278	0.586178781571319	0.9529861150	2.00590229178205	3.42199744317766
SAV_2283	0.550622061775077	0.9576235324	2.28532378451369	4.15043991725711
SAV_2289	0.556231780019695	0.9556594310	1.49222665321413	2.68274253075093
SAV_230	0.638041297939578	0.9579765739	2.79549158989167	4.38136465291374
SAV_2309	0.612602550670518	0.9647069669	3.46071091797828	5.64919443151256
SAV_2315	1.4556509601024	0.9709430100	202.934108739807	139.411242325242
SAV_2316	1.58484113294012	0.9817161224	174.594104761725	110.165051330935
SAV_2320	0.779371192037298	0.9579102725	144.481022450022	185.381527988409
SAV_2321	0.537971252298333	0.9855883775	525.562416613902	976.934017140474
SAV_2322	0.518498478932104	0.9805467967	226.547775755858	436.930453918504
SAV_2323	0.666505077049298	0.9662097139	24.8655725764326	37.3074015977727
SAV_2333	0.610339557335285	0.9661161471	2.9005433902805	4.75234376572959
SAV_2334	0.430710587286155	0.9753857662	2.43821420457607	5.66091077523519
SAV_2349	0.454175836131266	0.9763490616	3.79818947940363	8.362817167371
SAV_2350	0.378995697506065	0.9888543002	3.95016612349015	10.4227202300283
SAV_2351	0.445208877160356	0.9880284590	14.5992727235566	32.7919623181687
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SAV_2353	0.422831893583532	0.9744086569	2.84624697404721	6.73139140457228
SAV_2354	0.566233131489184	0.9555919332	9.43283933304737	16.6589321755849
SAV_2355	0.482088080112374	0.9723748416	11.1257108043516	23.0781702832358
SAV_2356	0.541363761465081	0.9604730071	11.4900552259281	21.2242784682019
SAV_238	0.565786204525375	0.9633615025	0.677448620273668	1.19735796817804
SAV_2404	0.756558673094437	0.9655744484	148.927730754682	196.848884364177
SAV_2405	0.705446758659649	0.9756131787	90.8205450898384	128.741884451206
SAV_2408	1.88159603760144	0.9658386935	80.7139689391955	42.8965449151804
SAV_2420	0.564133013777931	0.9754536804	15.5725653183865	27.6044211880083
SAV_2422	1.32709987563983	0.9629505650	444.02758527176	334.584904589553
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SAV_2432	0.466957813761127	0.9800784217	2.97943763978866	6.38052850168773
SAV_2435	0.663322390948539	0.9597821273	23.3273925372134	35.1675035480947
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SAV_3435	0.721078474077847	0.9745554611	90.4541392453657	125.442850531689
SAV_3439	0.0680494628068976	0.9986265461	1.35955700103122	19.9789527345602
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SAV_3455	0.68194478875066	0.9519073653	12.3983494083885	18.1808697902107
SAV_3464	0.555321189233492	0.9870844104	45.1038042922252	81.2211116137705
SAV_3466	0.646713622148356	0.9593252787	6.10935126344792	9.44676446299818
SAV_3467	0.432531813195987	0.9964257833	196.98607381108	455.425630673373
SAV_3468	0.603046624300941	0.9641973763	17.2753264826651	28.6467509915852
SAV_3471	0.699623665380648	0.9644258173	42.4395181578311	60.6604954318416
SAV_3472	0.549036404963151	0.9920906074	29.8780696824175	54.4191048395466
SAV_3473	0.531965661456706	0.9787200183	5.20368049974458	9.78198571218883
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SAV_3477	0.568782514941508	0.9763483860	2.74363530120024	4.82369838932617
SAV_3479	1.29029437319542	0.9524949447	400.023174629956	310.024737718801
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SAV_3502	0.646238817145032	0.956193213412.0553228218824	18.6545940943948
SAV_3509	0.430731692616109	0.988846542713.6869369163435	31.776015442964
SAV_3515	0.496842700189782	0.9996179196513.639185765231	1033.80644531767
SAV_3539	0.636669454151036	0.95475465204.0635361241552	6.38248952837498
SAV_3541	0.60464608376682	0.975492600912.5872887694639	20.8176139851063
SAV_3549	1.46733489520804	0.9669812578227.525772601709	155.060561392463
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SAV_3581	0.595622031276383	0.97538215705.98291575730708	10.0448194377331
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SAV_4358	1.74342057596757	0.98051505901279.51025980431	733.907972317123
SAV_4359	2.18084529772222	0.9895561887128.441787724957	58.8954144794716
SAV_4360	2.33418366392252	0.980953778941.4364120349784	17.7519929881378
SAV_4362	1.93846754722285	0.9715988857458.663038995941	236.611151759051
SAV_4363	1.80134857902092	0.9865131050470.122644570804	260.983715226471
SAV_4364	1.39036952163247	0.9693358732422.532671646889	303.899549776366
SAV_4379	2.10918545908173	0.9805508597151.593182083012	71.8728556705538
SAV_4382	0.547923889753347	0.996597391852.5236222003134	95.8593395589255
SAV_4390	1.45330650587114	0.9626858710928.443443301902	638.849024311892
SAV_4396	0.477200295754993	0.98117414721.80803165338433	3.78883179551217
SAV_4398	0.485265573715164	0.97341435952.02468827012711	4.17233032754872
SAV_44	0.645997260071054	0.95482020205.16153700871326	7.99002925824413
SAV_440	0.895871355869695	0.9506920876233.622584661215	260.776933128327
SAV_4403	0.78610994875418	0.950890346171.9438660360164	91.5188341656691
SAV_441	0.673856697678394	0.9639484440910.4213266287194	15.4651970732405
SAV_4422	0.674707121544059	0.9874836721311.945556362938	462.342172480786
SAV_4426	0.538337993497972	0.97091459681.53812431771821	2.85717214147176
SAV_4431	0.637678661324431	0.971537451626.7861279510995	42.0056833883478
SAV_4434	0.490043421710883	0.986185901327.4211835841412	55.9566405123977
SAV_4435	0.401824816567313	0.98493307151.892426061133	4.70957985447368
SAV_4443	0.545839925981524	0.96833220286.58473545832456	12.0634917764287
SAV_4448	1.5846331894083	0.9727853962133.337985324291	84.1443850952528
SAV_4480	0.218320698699887	0.98585993321.4857618633917	6.8054099874153
SAV_4481	0.66378162481545	0.970801785827.3363663710052	41.1827705815229
SAV_4484	1.14256043953472	0.99605495443389.44787842867	2966.53705234966
SAV_4485	1.2520236281525	0.9571299148612.956395104484	489.572545854403
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SAV_4524	0.728393786872857	0.959358604332.5093748698829	44.6315927672204
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SAV_4562	1.69322189613647	0.9505935806114.624312511953	67.6959781665349
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SAV_5423	0.330945875381428	0.9982953939	78.1492489980479	236.139063247058
SAV_5424	0.610844376477161	0.9790491368	37.9395313611375	62.1099789441313
SAV_5446	1.32037103689783	0.9713368396	1366.26158832587	1034.75579980598
SAV_5449	0.900574843555902	0.9735465471	1053.82028429023	1170.16402560085
SAV_5458	0.652337593685979	0.9788383062	39.0953700283105	59.9311926933497
SAV_5463	0.556904311281151	0.9747905831	15.2746545289237	27.4277900520909
SAV_5465	0.600631416087225	0.9968713367	130.942113202021	218.007433002814
SAV_5466	1.4858705466858	0.9680961477	276.593098371252	186.148853268669
SAV_5468	1.31981270958824	0.9682986145	340.82739565903	258.239213172422
SAV_5472	0.570786758624359	0.9842427465	30.0873687972153	52.7121001715741
SAV_5474	0.746230903238315	0.9754370828	116.300501251539	155.850556103809
SAV_5476	0.63967256121487	0.9908209748	116.239925848668	181.717855191263
SAV_5482	0.680479130324689	0.9727605001	36.548558986771	53.7100365875026
SAV_5486	0.566154160816294	0.9877070463	42.7120678477613	75.4424692140001
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SAV_5488	0.837563621532813	0.9905932305	343.748021377432	410.414221129069
SAV_5489	0.823296594188567	0.9835986158	351.882274629794	427.406450012836
SAV_5492	0.587753228300991	0.9555694472	2.40187489378486	4.08653628450144
SAV_5494	0.509799265095525	0.9997925362	74.5724303257641	146.278026336093
SAV_5495	0.503185302829471	0.9995685847	431.219399041129	856.979320771753
SAV_5496	0.513851156663829	0.9999999999	643.461639673813	1252.23351417846
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SAV_5527	0.451357578488222	0.9970901144	21.1200595553836	46.7923007432891
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SAV_6338	0.2452970017391	0.99675041445.39277148315337	21.9846612266756
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SAV_6342	0.542050543480606	0.977535799441.9915059502835	77.4678790664951
SAV_6343	0.664391510985872	0.974265487878.0923748394132	117.539693912606
SAV_6353	0.833966130500027	0.97302053801281.67584544732	1536.84400190072
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SAV_6361	0.62575551612821	0.966194490915.3603036037285	24.5468129450438
SAV_6368	0.593545335666138	0.96260128232.22131508489532	3.7424522634018
SAV_6370	0.516782730291555	0.95485229271.17897551810751	2.28137561300155

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SAV_6387	0.450006727127952	0.9963832330	64.3736227484465	143.050356511988
SAV_6388	0.599237230735724	0.9803727305	17.6981766240057	29.534507731231
SAV_6400	1.81044938318467	0.9661821849	116.581626492607	64.3937508418679
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SAV_6423	0.649111425686319	0.9747748915	32.2077338052336	49.6181896215734
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SAV_6442	0.416927982470143	0.9888629139	2.57427393511128	6.17438512968035
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SAV_7280	0.555980384756322	0.95719955471.1850297088233	2.1314235921159
SAV_7291	0.594227725692516	0.975384301811.9151678596422	20.0515178684337

SAV_7300	0.516996916838526	0.9594928574	29.8299245534345	57.6984573444783
SAV_7302	0.381241800806233	0.9960583687	10.4831368551549	27.4973437670938
SAV_7312	0.686097262974136	0.9940698517	187.645190705316	273.496486331836
SAV_7334	0.302145765757525	0.9888234973	0.669794699772644	2.21679326894874
SAV_7335	0.319844037295241	0.9930830842	4.96317837567376	15.517495394458
SAV_7336	0.483778122037914	0.9805484466	20.9781989548591	43.3632650986541
SAV_7337	0.615114031285156	0.9663329343	45.0950235118019	73.3116482769626
SAV_7350	0.37367394128219	0.9968392456	6.25344334325305	16.7350265897471
SAV_7358	0.561714659228308	0.9521380314	1.4286695934319	2.54340806308069
SAV_7362	0.553341826691479	0.9574995853	4.27865188853157	7.73238472521466
SAV_7364	0.55641478508209	0.9805182558	6.27827600477618	11.2834456831515
SAV_7396	0.799358384326277	0.9537182446	72.5037720155658	90.7024601695698
SAV_740	0.394017018145498	0.9847893756	24.4671816880741	62.0967637469891
SAV_7439	3.28959961724854	0.9898365409	265.297710754786	80.6474165925044
SAV_7452	0.583627483558274	0.9794882627	28.8277819880057	49.3941474658592
SAV_7456	0.2100144980512	0.9935954271	11.2263133568278	53.4549445919248
SAV_7460	0.573676661379294	0.9595401703	3.7390351763669	6.51767001881708
SAV_7476	0.656480197920266	0.9628335835	11.2412415733589	17.1235044240043
SAV_7480	0.413731817243053	0.9761112106	12.4426795134451	30.0742630730173
SAV_7497	0.488163290955543	0.9882339796	5.6066539202038	11.4852018250475
SAV_7499	0.530380722422326	0.9708245027	5.5184074651151	10.4046154617229
SAV_7500	0.385213936970127	0.9861391852	3.32386966710525	8.62863294419956
SAV_7501	0.148028935561084	0.9983018255	1.58561804181464	10.7115411983783
SAV_7502	0.153233991997584	0.9997347908	3.0006892570546	19.5823995572856
SAV_7503	0.121990790058809	0.9999999999	10.127980547487	83.022501474124
SAV_7507	0.674024973254493	0.9753789185	34.0949985549253	50.5841770080112
SAV_7512	0.600817638380354	0.9550236611	2.18622693811936	3.6387529234542
SAV_7513	0.647302495169299	0.9669621976	66.0429660779778	102.027980072446
SAV_7570	0.421754001957996	0.9607198154	2.0123565853009	4.77139891016687
SAV_758	0.716368376360164	0.9586697266	35.9645447688623	50.2039815766248
SAV_7582	0.268769050851023	0.9921451294	0.429706677849348	1.59879523512375
SAV_76	0.511127537445434	0.9754235211	2.59070085164251	5.06859963873319
SAV_781	0.576581752351275	0.9573126227	0.821349567021925	1.42451536780777
SAV_796	0.608637090534044	0.9729501352	15.7476713058697	25.8736635522032
SAV_819	0.411226723823789	0.9762594667	3.99288933834683	9.70970296195485
SAV_865	0.638221456895774	0.9503719142	1.62540997856984	2.54678052736682
SAV_877	0.499693405353864	0.9571378698	1.66181200412472	3.32566326935591
SAV_887	0.561146095440238	0.9680072871	2.50797938474632	4.46938757148212
SAV_89	0.461321242364302	0.9735037702	3.7965348895155	8.22969883211535
SAV_890	0.597886062492908	0.9734749853	4.86561155103828	8.13802471118148
SAV_892	0.460287321673471	0.9808487031	0.581819247766784	1.26403491986583
SAV_893	0.658837269798866	0.9722398249	96.9031176697793	147.082021785687
SAV_899	0.591996553388982	0.9744388916	16.6978758482712	28.2060355802436
SAV_925	0.345099936362804	0.9909814833	15.8437011154837	45.9104724343594
SAV_926	0.340372809281533	0.9965855236	34.8363544979092	102.347642196927
SAV_927	0.354869107437557	0.9908777735	5.96474567762198	16.8082979121296
SAV_928	0.374870616386142	0.9869778524	4.49974795112946	12.0034693423248

SAV_929	0.384359103159236	0.993277045618.8348571959004	49.0032811531911
SAV_930	0.396741546829769	0.99160522069.50714337576511	23.9630647501719
SAV_938	0.750478566173845	0.97283583073079.77246777814	4103.74473914652
SAV_939	0.712321912918933	0.96703439853347.02132423879	4698.74822539638
SAV_941	0.750744707991136	0.9727755678934.165120064022	1244.31795538551
SAV_942	0.698674648709181	0.98304698422689.43065186424	3849.33195562918
SAV_943	0.737541421620972	0.98067152043931.45801182123	5330.49113794945
SAV_946	0.923344795395122	0.95611469821404.86766994024	1521.49844451017
SAV_947	0.914928670974959	0.95154690561936.80110873616	2116.88754564034
SAV_970	0.44222515673145	0.98065035091.108145955359	2.50584105967527
SAV_971	0.442251009065089	0.97485326061.5682041382403	3.54595943501736
SAV_974	0.513763922756022	0.9905575773265.399837295795	516.579357834413
SAV_975	0.564744083337166	0.966392626124.8050180199652	43.9225814875089
SAV_985	0.612287315452917	0.97328390036.14077414432083	10.0292362577827
SAV_986	0.558988794753486	0.96015034933.80627251712763	6.809210762098
SAV_991	0.410977861384083	0.986437771833.8438350195998	82.3495331491123
SAV_992	0.553977767232524	0.967211151659.5839336167222	107.556543134181
SAV_995	0.532213523435447	0.965136416318.3218251659855	34.4257038936512
SAV_m3	1.37801126210297	0.99999999952020.6918352626	37750.556374898
SAV_r11	2.78893478843208	0.98890247792864.5180176553	1027.10111026501
SAV_r14	2.75253458999158	0.98939036462807.93484558589	1020.12699705782
SAV_r17	2.79659322191626	0.98903113322799.40939533595	1001.00700144648
SAV_r2	2.83450363936857	0.98920678814906.59727246092	1731.0252152486
SAV_r5	2.81932222553597	0.98923077055048.61752837832	1790.72029534281
SAV_r8	2.79157152930129	0.98893310962855.44901018229	1022.88226549473