Patient ID	Diagnosis	Initial Treatment	Clinical Response	BRCA (Self Reported)	Initial Percent Tumor	Number of Cycles on Initial Treatment	Number of Cycles Following Cross-Over	Status	*ALKBH2*
1004	High grade serous ovarian	ABT+CP	Other	Mut	95	3	n/a	1	0.20111799
1006	Fallopian tube cancer	ABT+CP	SD	Unknown	80	6	n/a	1	0.66986036
1007	BRCA+ ovarian	CP	PR/CR	Mut	60	12	3	1	0.61762667
1010	BRCA+ ovarian	ABT+CP	Other	Mut	60	3	n/a	1	-0.17853308
1011	BRCA+ ovarian	CP	Other	Mut	80	3	6	1	-0.008432865
1012	BRCA+ ovarian	ABT+CP	SD	Mut	90	6	n/a	1	-0.030582905
1013	High grade serous peritoneal	CP	Other	Mut	80	3	6	1	-0.042904377
1016	BRCA+ ovarian	CP	Other	Mut	80	3	as	1	0.11202192
1024	High grade serous ovarian	CP	Other	Unknown	50	2	6	1	0.6980386
1025	BRCA+ ovarian	ABT+CP	SD	Mut	90	18	n/a	1	0.13583517
1026	BRCA+ ovarian	CP	Other	Mut	90	3	3	1	-0.045287132
1028	BRCA+ ovarian	CP	PR/CR	Mut	70	10	4	1	-0.29079533
1031	BRCA+ ovarian	ABT+CP	Other	Mut	60	3	n/a	1	0.058653355
1032	BRCA+ ovarian	CP	Other	Mut	60	3	6	1	0.8048272
1033	Fallopian tube cancer	ABT+CP	Other	Mut	95	3	n/a	1	-3.24E-04
1034	BRCA+ ovarian	ABT+CP	Other	Mut	70	3	n/a	1	0
1035	BRCA+ ovarian	CP	PR/CR	Mut	60	9	4	1	0.45366144
1036	High grade serous peritoneal	ABT+CP	Other	Unknown	75	1	n/a	1	0.36564827
1037	High grade serous ovarian	ABT+CP	Other	Unknown	70	3	n/a	1	-0.007596016
1038	High grade serous ovarian	CP	SD	Unknown	30	5	3	1	0.010466576
1039	High grade serous ovarian	CP	Other	Unknown	90	3	as	1	0.13295698
1042	BRCA+ ovarian	ABT+CP	SD	Mut	40	9	n/a	1	0.103104115
1044	High grade serous ovarian	CP	Other	Unknown	25	2	as	1	-0.07220173
1045	BRCA+ ovarian	CP	SD	Mut	50	2	5	1	-0.10824442
1047	BRCA+ ovarian	ABT+CP	SD	Mut	70	8	n/a	1	0.06439924
1049	High grade serous ovarian	CP	PR/CR	Unknown	30	12	2	1	0.029666424
1050	High grade serous ovarian	CP	SD	WT	80	12	5	1	-0.055309772
1051	BRCA+ ovarian	CP	SD	Mut	75	15	9	1	-0.085515976
1052	High grade serous ovarian	ABT+CP	Other	Unknown	80	2	n/a	1	-0.21604061
1056	High grade serous ovarian	CP	SD	Unknown	85	32	41	0	-0.19144344
1057	High grade serous ovarian	ABT+CP	Other	Unknown	60	3	n/a	1	-0.1717124
1058	Fallopian tube cancer	CP	Other	Unknown	30	2	as	1	0.17575455
1059	BRCA+ ovarian	ABT+CP	SD	Mut	50	6	n/a	1	0.16822004
1060	High grade serous ovarian	ABT+CP	Other	Unknown	90	3	n/a	1	-0.117632866
1061	BRCA+ ovarian	CP	Other	Mut	90	3	3	1	-0.012696743
1062	High grade serous ovarian	CP	SD	Unknown	60	5	as	1	-0.023149014
1063	High grade serous ovarian	ABT+CP	Other	Unknown	30	3	n/a	1	0.41472673
1064	BRCA+ ovarian	ABT+CP	Other	Mut	85	3	n/a	1	0.1708641
1065	High grade serous ovarian	ABT+CP	Other	Unknown	85	3	n/a	1	-0.40686274
1069	High grade serous ovarian	ABT+CP	SD	Unknown	50	21	n/a	1	0.18038654
1070	High grade serous peritoneal	CP	SD	Unknown	90	9	as	1	0.13879871
1073	High grade serous ovarian	ABT+CP	Other	Unknown	50	2	n/a	1	0.13467312
1074	High grade serous ovarian	ABT+CP	Other	Unknown	70	3	n/a	1	0.06991482
1079	High grade serous ovarian	CP	Other	Unknown	25	3	3	1	0.6853709
1081	High grade serous ovarian	ABT+CP	SD	Unknown	70	24	n/a	1	-0.03293562
1082	High grade serous ovarian	CP	PR/CR	Unknown	90	12	3	1	-0.23718596
1086	BRCA+ ovarian	ABT+CP	PR/CR	Mut	30	17	n/a	1	0.028306007
1087	BRCA+ ovarian	CP	Other	Mut	90	3	32	0	-0.01392746
1088	High grade serous ovarian	ABT+CP	PR/CR	Unknown	80	25	n/a	1	-0.2841239
1090	High grade serous ovarian	ABT+CP	Other	Unknown	70	3	n/a	1	-0.004553318
1091	High grade serous ovarian	CP	SD	Unknown	80	1	4	1	-0.6465697
1096	BRCA+ ovarian	ABT+CP	Other	Mut	?	3	n/a	1	-0.26567316
1097	High grade serous ovarian	CP	Other	Unknown	60	2	as	1	0.7221894
1053*	High grade serous ovarian	CP	Other	Mut	40	1	as	1	-0.24753284
1098*	High grade serous ovarian	ABT+CP	Other	Unknown	70	1	n/a	1	0.1210804

*Patient was not evaluable for response due to insufficient time on study, but was included in the genetic and expression analyses.

Key:
ABT: veliparib
CP: cyclophosphamide

ALKBH3	*APC*	*APEX1*	*APEX2*	*APLF*	*APTX*	*ATM*	*ATR*	*ATRIP*	*AURKA*
0.4314232	-0.70318271	-1.019207	0.384331465	0.83256817	0.14793444	-0.026220798	0.09252453	0.24238873	-0.093429325
-0.075595856	0.597468865	0.5552778	-0.533088915	-0.08118582	0.2151041	0.381989	0.044353962	-1.0982456	0.106398345
0.013691425	0.343265295	0.5380554	-0.062415123	0	-0.18029022	-0.12656212	-0.1350398	0.15125751	0.12900758
0.017011642	0.066069842	0.8097124	-0.20647906	-0.23026085	0.12009382	1.087863	0.080848694	-0.15930223	0.42103696
0.39594316	-0.23595214	0.8016548	0.364533171	0.088202	0.3175063	-0.036322594	0.03253889	0.22479773	0.81710765
-0.07759571	-0.197977303	-0.57802963	-0.29572749	-0.14906597	-0.19635963	0.013667107	0.15518904	0.048385143	1.36574865
-0.51556206	0.020364762	-0.32474518	0.30791521	0.06848574	0.051354885	0.021378994	-0.08186817	-0.16204214	-0.182826992
-0.037775517	-0.19737792	-0.37612534	0.039265154	0.36982632	-0.17552233	-0.18342733	0.43938255	-0.10881424	-0.061223506
0.11130905	-0.136132718	0.39429665	0.009216785	0.010493279	0.046480656	0.027497292	-0.11784315	0.08565712	0.189282178
-0.02087307	-0.055106879	0.023571014	0.4255216	0.102324486	0.34341812	0.06470108	0.38998985	0.09449959	-0.061148405
0.40197802	0.015558242	-0.15838718	0.075263736	-0.27123594	0.34890127	-0.3261981	0.28007126	-0.18897057	1.10923145
0.07835579	0.007997752	0.104252815	-0.251279599	0.017389774	-0.08464432	0.07305145	0.14832592	-0.15659904	-0.044483423
-0.022828102	0.019675255	0.3191328	-0.38004208	-0.24544668	-0.024125576	0.047415733	-0.028830528	0	0.36506057
0.39441395	-0.060716868	0.7086773	-0.048199175	-0.23841572	0.30892515	-0.2279129	0	-0.24504852	0.619640815
-0.18952847	0.12874913	-0.18811607	0.13320398	-0.44263792	-0.12957954	-0.005702972	0.3386817	0.11755037	-0.489694595
-0.20195103	0.057317972	-0.9342108	-0.05534625	0.06087923	-0.039149284	0	-0.21292782	-0.113995075	-0.2291522
-0.24752855	-0.54844023	0.829649	0.022765639	1.44E-04	0.06715822	0.20672798	0.07319927	0.07661915	0.347620247
0.41465425	0.134981631	0.16933441	0.08133745	-0.1871543	0.1998787	-0.088452816	0.21633196	0	0.045731546
-0.019493103	-0.528682705	-0.20294094	-0.10865116	0.50744534	0.022401333	-0.17317486	-0.40085125	0.08154869	-0.141986368
0.09673357	0.10310531	0.2372055	-0.160185092	0.1786871	-0.37634945	-0.10378933	-0.5545516	-0.09169483	-0.33373952
-0.6591244	0.296610355	0.008335114	-0.43969393	-0.044458866	-0.2787404	0.16161442	-0.12094164	0.058231354	0.21263385
-0.07192469	0.052498342	-0.13187218	0.070339205	0.28509998	-0.43866634	0.18599749	-0.35119295	-0.12035704	-0.067058325
-0.024429798	0.082006217	0.21746731	-0.039484025	-0.11148548	-0.4648943	0.24906921	-0.14227867	-0.21823788	-0.087570426
0.56985426	0.238685606	0.34392738	-0.064088345	-0.12980413	-0.021698475	0.14016819	-0.0672164	-0.2862363	-0.92237162
0.3566103	-0.231452465	0.39280796	-0.27109313	-0.306643	0.04101038	3.18E-04	0.24708939	-0.012850285	0.074788095
-0.5977111	-0.04248452	-0.38625813	0.106600047	0.1627016	0.012611866	0.19106483	-0.639678	0.32408428	-0.099260332
0.005981445	0.015666009	0.54082584	-0.026806355	0.09823942	-0.08614397	0.13587666	0.07296133	0.22889948	-0.543694965
0.1370759	-0.08481574	-0.25537872	-0.16218233	-0.06856346	-0.13153791	0.09375429	0.20682812	0.13894224	0.063938141
0.22218227	0.6121323	0.3169031	-0.04821706	-0.43894672	-0.07742548	0.047627926	0.237113	0.03172922	-0.430341
-0.24166155	0.084917785	-0.8429165	-0.043293715	0.2936573	-0.35767365	0.11309147	-0.18410206	0	-0.768928315
-0.1089139	0.77491498	0.33712482	0.365537405	0.14126635	0.01262188	0.80305815	0.4652233	-0.06843853	0.156785012
0	0.180315492	-0.33499146	0.139249563	-0.10121012	0.393682	-0.25053406	0.02908945	0.19202948	0.174425602
-0.088944435	-0.136769057	-0.028938293	-0.066179752	-0.044110775	0.23194456	-0.10265541	0.44932795	-0.11340952	0.247902635
0.25619555	4.59E-04	0.3210678	-0.080949071	0.24080944	-0.11992645	-0.09471655	-0.03101492	-0.034905434	0.011712788
0.21974659	-0.12106919	0.016227722	0.045647859	-0.028734207	0.22012997	-0.1793356	0.43710184	-0.023843765	0.524406425
-0.12638712	0.11721325	0.2908182	0.88744118	0.6061125	4.69E-04	0.0367527	-0.18357658	-0.1345005	0.78623487
-0.007518292	-0.063237904	-0.052099228	0.275585413	0.16111517	0	0.01930046	0	0.10495567	-0.88340735
0.23529625	-0.067394495	-0.8137493	0.180370335	0.32071257	0.07545471	-0.019357681	0.013466835	0.18895674	-0.39357256
0.17658138	-0.480042935	-0.2554512	0.137572053	0.3712573	-0.28625536	-0.4154768	0.010345459	0.10129452	0.013368606
0.17530727	-0.011818648	0.2852621	-0.125225781	-0.36033583	0.32511187	0.07997322	-0.38163853	0.09255743	-0.100957395
-0.18570614	0.241631745	-0.5309248	-0.060166835	-0.00106144	0.16555786	0.17765808	0.8745394	0.18560314	0.34361315
-0.15257263	0.129296786	-0.26212502	-0.320974345	-0.22137165	0.27335405	-0.10273552	-0.006352425	0.40961647	0.79169705
0.32261944	-0.053792477	-0.058942795	-0.3069694	-0.043685436	-0.07666874	0.19184732	-0.045452595	-0.24996805	-0.138294937
0.10214043	-0.417119975	0.5966902	0.27760792	-0.040329933	0.2729602	-0.15335369	-0.31946754	-0.028240204	0.05171561
0.23906803	0.102421045	-0.64471054	-0.00314641	0.001587391	-0.10997152	-0.040830612	0.30596018	0.096431255	-0.053595541
-0.48689747	-0.070683002	0.3098755	-0.04092431	-0.43126583	0.5342326	-0.22323418	0	-0.21861553	0.462242605
-0.35577154	-0.03308916	-0.3318119	0.24384355	0.25110626	-0.16187668	0	-0.4063077	0.06103182	-0.561065915
-0.12151623	0.192718505	0	0.134660959	0.12768888	-0.15686798	-0.01593113	-0.42916822	0.21244049	0.8368318
-0.13403988	0.135234115	-1.1682005	-0.34012556	-0.15990686	0	-0.10807896	0.23508787	0.3058567	0.081869128
0.12448263	0.031626703	-0.04291153	-0.096608638	0.08713102	-0.16431856	0.43930244	-0.41610956	-0.07426691	-0.865376485
0.120241165	0.062568667	-0.22836113	0.045675038	-0.10106087	-0.0631094	0.024708748	-0.036515713	0.38217735	-0.637292385
0.23098278	-0.071142438	-0.32342243	0.263260605	-0.016260147	0.2890768	-0.15455532	-0.020358562	-0.1497984	0.362987755
-0.31962585	0.582549095	0.34074497	-0.14845443	0.25660276	-0.24079752	0	-0.040964603	-0.05445814	-0.36068177
0.039306164	0.02180338	0.06231022	0.20062281	-0.017940998	-0.2012558	-0.26312065	-0.32705164	-0.060142517	-0.040892839
-0.12584305	0.034608601	-0.013930321	0.058799742	0.4624896	-0.032387733	-0.09590292	-0.051638126	0.19100475	-0.463479995

BAP1	*BLM*	*BRCA1*	*BRCA2*	*BRIP1*	*BUB1*	*BUB1B*	*C19orf40*	*C1orf86*	*CCNE1*
-0.163067337	-0.14448023	0.30686497	0	0	0.114720345	0.15298891	0.28503418	0.5781188	0.400267605
-0.22187662	0.30421877	-0.154797795	0	0	-0.882885	-0.1297245	-0.24625826	-0.25975275	-0.402217625
0.39872145	-0.27393675	-0.21664667	0	0	-0.15213251	0.034017086	-0.13338852	-0.22470999	-0.275607345
-5.46E-04	-0.110890865	0.14333701	0	0	0.46411514	-0.36122274	-0.31138325	-0.2576871	-0.21601652
0.385988475	0.69668245	0.18691945	0	0	0.017207146	-0.12417555	0	-0.21697044	0.09472203
-0.44721437	0.75993156	1.1089027	0	0	1.0527687	1.212801	-0.111356735	0.015334129	0.32488941
-0.346267225	-0.8842454	-0.31533146	0	0	-0.7040925	-0.15090895	0.2331953	-0.10709429	0.067088128
-0.23856688	-0.3775897	0.17510581	0	0	0.23810911	0.42370367	0.019792557	0.26199913	0.211840155
0.250110145	-0.21447802	0.120438097	0	0	0.014146805	0.27674103	0.2632103	0.049622536	1.066487575
0.054312228	0.56559277	0.076581715	0	0	0.11525822	0	0.19248581	0	0.66042042
-0.079215767	0.48895836	0.548476935	0	0	-0.19736814	1.0463448	0.048729897	0.020692825	0.702775027
-0.272981165	0.2757144	-0.154598238	0	0	0.11722517	0.07539034	-0.30492592	-0.12542248	-0.028283358
-0.181227208	0.9801054	-0.153944254	0	0	0.03335619	0.15265703	0.03913021	0.015263081	6.18E-04
0.213260172	0.22028637	-0.028891325	0	0	0.39466953	0.96942997	0.095944405	-0.3298974	0.36508988
-0.15908599	-0.029345036	0.322162635	0	0	0.1253004	0.094984055	0.039370537	0.20821428	-0.1216712
-0.068849563	-0.7674756	-0.014010906	0	0	-0.40076637	-0.4105153	-0.121982574	0.08235741	0.062904356
0.17333913	0.600019	-0.199755907	0	0	0.22435665	0.57970953	0.086455345	-0.10140228	0.16164565
0.191236018	0.35865164	-0.456450225	0	0	0.007474423	-0.14392328	0	-0.016587734	0.178960089
-0.522741545	0.44816685	-0.02485561	0	0	0.13762426	-0.17827892	0.044015884	0.047352314	0.38075542
0.313208815	-0.107914925	-0.42619204	0	0	-0.19350815	-0.85360193	0.08400631	0.021905899	0.149087665
0.13307643	-0.31091547	0.062915564	0	0	0.45558548	0.12955523	0.10499859	0	0.351996662
-0.208299874	0.23779249	0.22448682	0	0	-0.37847567	-0.19904995	0.19154167	0.14660215	-0.209863905
-0.050319908	-0.80813503	0.159099343	0	0	-0.5970144	-0.33265877	0.15555859	-0.08446026	0.13380838
0.26670337	-0.9563031	-0.42659068	0	0	-0.96915054	-0.89618826	0.029249191	-0.04207182	-0.10798383
-0.167030336	0.615787	0.682106985	0	0	0.18137836	0.38038635	-0.016181946	-0.14072561	-0.120586875
-0.02775693	-0.13584423	-0.078126195	0	0	-0.97753143	-0.09790325	-0.21537638	-0.1493249	-0.481070042
-0.264139655	-0.2773142	-0.06246257	0	0	-0.46424007	-0.4361205	-0.025003433	0.13053322	-0.495205152
0.27231598	0.1949687	0.135862825	0	0	0.17134619	0.3162961	-0.07502842	0.18350792	0.16029692
0.056824445	-0.38427877	0.34982848	0	0	-0.34055948	-0.03986454	-0.3491516	-0.057367325	-0.25913215
-0.065155506	-0.38492775	-0.045175553	0	0	-0.7538805	-0.6570487	-0.026098251	0.07799244	-0.21306778
-0.095665933	0.32347202	-0.461383105	0	0	0.6045613	-0.1769743	0.071988106	-0.03435898	-0.05748224
0.42557335	0.47485256	-0.05378127	0	0	0.21693134	0.5894494	-0.044570923	-0.0574708	0.34283924
-0.33696246	-0.08633566	0.48165488	0	0	0.12010527	1.1142836	0.00609684	0.021806717	-0.068271635
0.17272687	-0.7158909	-0.4334743	0	0	0.28396702	0.6053133	0.0415411	0.15791512	-0.13874531
-0.269253975	0.015113354	0.4553535	0	0	0.035348892	-0.15838575	0.099944115	0.114087105	0.262967585
-0.001842499	0.67858934	0.017840625	0	0	0.43823624	0.042823315	-0.016550064	-0.049442768	0.321963074
-0.295919895	-0.5975652	-0.054760935	0	0	-1.1093016	-0.35447073	0.26744652	0.28374624	-0.23143745
-0.00858712	-0.49264336	0.11046648	0	0	-0.34345245	0.29721832	0.03154564	0.19305086	-0.344956865
0.476636185	-0.6144142	0.062649486	0	0	-0.031214714	0.08550835	0.048639297	0.28392267	-0.11744213
0.24083399	-0.92758465	-0.4894259	0	0	-0.5667882	-0.9807153	-0.08249283	-0.09101248	-0.223276378
0.15812254	0	0.63799595	0	0	-0.10649538	-0.0836792	0.04526615	0.12670326	0.090845584
0.41136337	0.04688835	0.40401768	0	0	0.0346241	0.21233082	-0.066295624	-0.12880039	0.52114294
-0.011437655	-0.507524	0.116231205	0	0	-0.11181021	0.3661747	-0.13348484	-0.0803318	-0.69602537
0.36342049	0.8651514	0.35511876	0	0	0.006356239	0.12585068	-0.28715563	-0.345973	0.22000503
0.041866303	0.27078533	0.198810338	0	0	0.004695892	-0.27043724	0.09661102	0.050424576	0.48837401
-0.073577405	0.41979933	-0.84503697	0	0	0.20965958	0.014752388	-0.2653551	-0.32534504	-0.231638433
-0.47440911	-0.4903264	-0.522535325	0	0	-0.59231806	-0.7498927	-0.001717567	0.07513666	-0.069584607
-0.079740765	0.09590578	-0.166376115	0	0	0	-0.18218851	-0.048062325	-0.09622574	-0.115935321
0.049918175	0.72933054	0.183136707	0	0	0.043862343	0.4499097	-0.02563095	-0.00141716	0.002573015
-0.21370196	-1.241415	-0.51697206	0	0	-0.7683182	-0.6390724	-0.12281418	0	-0.398707392
-0.49464203	0.051781178	-0.145999195	0	0	-0.115151405	0.44075203	0.34081078	0.28761292	-0.14261674
0.23001337	0.78427124	0.04623723	0	0	0.34974575	0.04142189	-0.15903473	0.11728287	-0.001056909
0.055384637	-0.34169292	-0.215057375	0	0	-0.5553622	-0.5194721	-0.19334316	-0.35653448	-0.441673765
0.105407717	0.37020302	0.029346705	0	0	-0.09677696	-0.17685795	-0.072078705	-0.1159544	-0.400735855
-0.10464454	-0.20577097	-0.073238135	0	0	-0.99441934	-0.39756393	0.0397377	0.08874273	-0.011201615

CCNH	*CDK7*	*CETN2*	*CHAF1A*	*CHEK1*	*CHEK2*	*SLX1A*	*PMS2L3*	*CLK2*	*DCLRE1A*
-0.32194042	-0.41566086	0.17664433	0.5297251	0.24949026	-0.51276016	0.025121689	0	-0.5906415	0.38809776
0.8242016	0.42479038	0.006755829	-0.5801468	-0.58689785	-0.31333637	-0.02726841	0	0.34464073	-0.6140194
0	0.72015667	1.7840261	0.17442799	-0.19972372	0.48164892	0.28608704	0	0.15802479	-0.043544292
0.10527563	0.3397436	1.3877039	-0.33935642	0.5015478	0	-0.011623383	0	0.19977474	-0.002285004
-0.16756201	0.30859756	0.6710949	0.4993348	0	1.5560207	0.19377041	0	0.55811405	-0.2746234
-0.38456345	0.043344498	-0.616559	0.010796547	0.39486122	0.7895489	0.07741356	0	0.07529259	-0.029990673
-0.32102537	-0.41530323	-0.21422672	-0.20630693	-0.46678114	0.14769888	0.008778572	0	0	5.06E-04
0.10568142	-0.38280392	-0.41848564	-0.0519886	0.15231514	-0.22596455	0.31367588	0	-0.27100563	0.33930016
-0.06318855	-0.09887648	-0.42556572	-0.19645405	0.3391695	0.042390823	0.09875965	0	-0.101447105	0.026000977
-0.060185432	0.15630817	0.075987816	0.11748886	0.3065729	-0.0726676	-0.01669693	0	-0.12531376	0.09132004
0.39056158	0.09232998	0.9971037	0.4486847	-0.11943102	0.37837982	-0.16178226	0	0.13187027	0.061935425
0.8370404	0.19965553	0.7349014	-0.23595	0.07402325	-0.098623276	-0.030966759	0	0.03625393	-0.29871178
0.16028881	-0.18604374	0.45358753	0.013049126	0.54933167	0.06762791	0.07381725	0	0.19580746	-0.099873066
0.34450674	0.732564	0.496521	0.04350996	-0.07181406	0.6931529	0.51562023	0	0.55039597	-0.18724012
0.10811043	-0.22203922	-0.9121971	1.033968	0.2765522	0.015155315	-0.23016739	0	0.4698372	0.1116724
-0.34705687	-0.4963832	-0.061465263	-0.20606136	-0.24523067	0.27945614	-0.44591427	0	-0.26932907	0.13390827
0.61892366	0.59939575	1.0234928	-0.11362457	0.1267395	-0.36563873	-0.056773186	0	0.29449272	-0.17159367
0.3248086	0.28112125	0.66822433	-0.010505676	-0.22409773	-0.10614443	0.37634373	0	0	-0.07989693
-0.46001482	-0.62456656	-0.5287876	-0.16335297	0.0415287	0.37977505	0.25024033	0	-0.005188942	0.070127964
-0.23353386	-0.18301964	-0.538373	-0.26264	-0.22492123	-0.06812096	0.05312729	0	-0.18866825	0.19321728
0.7551341	0.2953062	0.15323353	-0.14232254	0.24047041	0.29711437	-0.53767014	0	0.06755543	-0.044223785
-0.52628136	0	-0.77861595	-0.010505676	0.08741045	0.10158682	-0.19959927	0	-0.29919624	0.22922945
-0.10519934	-0.5459509	-0.36907387	-0.3740468	-0.5804453	-0.31254196	-0.5759554	0	0.061491013	-0.28654432
-0.20126152	-0.57943964	-0.2124157	-0.21864462	-0.23495674	-0.17262745	0.14162445	0	-0.11051178	-0.3021474
0.22502422	-0.14188242	-0.020056725	-0.031703472	0.1898346	-0.093818665	0.21056747	0	-0.08342934	0.08077955
0.2729063	-0.40465164	-0.6985874	-0.16722965	0.18119812	-0.21510363	-0.30834198	0	-0.28938675	-0.058316708
0.48815823	0.25912762	0	-0.07498026	-0.0644145	-0.4045725	0.031331062	0	0.23171043	0
-0.5930371	-0.32223225	0.13050842	0.0928216	0	-0.13113832	0.293725	0	-0.15530682	0.2741518
0.51153135	-0.14334774	0.03531742	1.0986547	-0.19422436	-0.26939726	-0.010016441	0	0.47433567	-0.21074152
-0.032474995	0.17625523	-1.1128931	-0.22128868	-0.6705084	-0.25591993	-0.3841381	0	-0.28951645	-0.15093279
0.9410815	-0.06813669	0.5946169	0.33223486	0.12487316	0.3897748	0.42510414	0	0.1495142	-0.28535843
0.25328636	0.71859264	-0.3288145	0.14437532	0.3500738	0.11413479	0.57626534	0	0.022809029	-0.19570923
0.10142088	-0.1605568	-0.19859028	0.9459615	0.4399252	0.26220465	-0.16351414	0	-0.14163399	0.5943017
-0.23808289	-0.31507206	-0.05932045	-0.06750965	0.14189959	0.98534966	0	0	0.06372166	0.14611149
-0.035175323	-0.002029419	0.8422594	0.36923313	0.13687801	0.073266506	0.14323044	0	0	0.04385376
-0.6363454	0.08253765	0.32616043	0.39102173	0.37481976	-0.110812664	-0.05476761	0	-0.4749875	0.5821943
-0.031962395	-0.17519379	-1.2765326	-0.009417057	-0.47118235	-0.6547208	-0.16616726	0	-0.077168465	-0.1250143
-0.45072937	0.08785629	-0.37447166	-0.16870785	-0.08424854	-0.5186286	0.10848141	0	-0.43777227	0.35139942
-0.043913364	-0.14410925	-0.41907978	-0.008933067	-0.3949113	0.11215544	-0.039803505	0	-0.06811905	0.4457574
0.23765802	0.2722063	0.5767746	-0.08364582	-0.40911007	-0.45928097	-0.16375828	0	-0.25476742	-0.098884106
0.17474747	0.032334328	0.39542198	0.42947674	0.68679285	0.61505795	-0.47641277	0	0.2992239	0.356174
0.3010621	0.16419125	-0.8434019	0.18499327	0.46403027	0.45846605	-0.31450462	0	0.272727	0.4134469
0.5493202	-0.28009033	0.14028549	0.06465244	-0.23661947	-0.1327734	-0.47732258	0	0.09972	-0.10119963
-0.13960648	0.11356735	1.1642199	0.07153654	-0.15644264	0.44049358	-0.19195652	0	0.2285757	-0.15904665
0.58230114	-0.59807634	-0.9207287	0.21944332	-0.25283337	0.07619095	-0.06388092	0	-0.07222271	0.19503069
0.49339724	0.064331055	1.903326	0.2295103	0.086937904	-0.37876368	0.5075598	0	0.7930994	-0.06251097
-0.38315535	-0.5993595	0.30306244	0.004597187	-0.6734824	-0.11934471	-0.045643806	0	-0.41801834	-0.055115223
-0.21598959	0.75437164	-0.6588135	-0.041166782	-0.16393375	0.09530926	-0.3357458	0	-0.2999754	0.30939102
0.23629904	-0.005148411	-1.0171986	0.44635963	0.3697996	-0.3333583	0.051927567	0	0.046705246	0.21285295
0.9582119	0.30946255	0.14460373	-0.5176277	-0.43195772	-0.5761061	-0.33606243	0	-0.109134674	-0.1480012
-0.1259408	0.29304218	-0.39325428	0.11410713	-0.1701622	0.78083754	-0.007098198	0	-0.106357574	-0.24988842
-0.65707684	1.145442	0.9383831	1.1044397	0.5413027	0.38770533	0.3151722	0	-0.30410194	0.41896486
0.7045932	0.6337538	0.026281357	-0.6778755	-1.0526214	-0.5390396	0.021735191	0	0.22900105	-0.04497814
-0.38307905	-0.6630521	-0.26356983	-0.049438477	-0.0748086	0.026491642	0.23376656	0	-0.110871315	0.08130407
-0.26899672	-0.3503065	-0.6764221	-0.079202175	-0.099135876	-0.6193228	0.007436752	0	-0.47707033	0.052740574

DCLRE1B	*DCLRE1C*	*DDB1*	*DDB2*	*DMC1*	*DNA2*	*DUT*	*EME1*	*EME2*	*ENDOV*
-0.529387	-0.318913947	-0.13737774	0.45244265	0.32047367	0.10631323	-0.19919157	0.13581944	0.47044373	0.66574717
-0.230124	0.336756945	0	-0.45309925	0.18069649	0.14084482	0.67454815	-0.30360508	-0.21144581	-0.7601142
-0.11342907	0.3027792	0.481709	0.5968218	0.18317986	-0.2628126	0.72596073	-0.28159094	-0.21137476	-0.31246805
0.111340046	-0.05554223	0.7670479	-0.040261745	-0.104836464	-0.3683691	-0.2630291	0.35361195	0.14228058	-0.19565916
0.5850692	0.627137185	0.6152234	0.35191774	-0.08060837	-0.3416643	0.61394405	0.21929502	0.11850214	-0.17235374
0.31813622	0.62543871	-0.058289528	0.07006979	0	0.16675186	0.04197979	0.6091237	-0.034635544	-0.04556513
-0.14137077	0.017310858	0	0.24569559	0.09099817	-0.04950714	-0.52912045	-0.13015842	-0.20347214	0.041175365
-0.30070305	-0.41374755	-0.08015156	0.18471003	-0.09057045	0.15004492	0.32285595	-0.03345442	-0.15721369	0.17496347
0.0082407	0.120769265	-0.13031054	-0.42035103	-0.004487515	-0.15911865	-0.26683712	-0.12088585	0.23814297	0.0574522
0.08796978	0.150584222	0.23778677	-0.021756172	0.09630966	-0.08335352	0.24242783	0.29848146	0.34039068	0.07159805
-0.012917519	0.05077505	0.008201122	0.33890486	-0.008547783	0.066794395	0.030849457	0.37994862	0.22389269	-0.13062763
-0.16409922	0.072084427	-0.26705503	-0.11838055	-0.18087673	0.06004095	-0.09386158	0.13658905	-0.41044235	-0.04739189
-0.14563704	-0.18506837	-0.13544464	-0.048369408	0	-0.06008768	0.47012234	-0.10250044	0.024373531	-0.12477064
-0.09454155	0.105919598	-0.13924026	-0.16539288	-0.20520926	-0.22295046	0.18641758	0.28901958	0.22158766	-0.35254765
0.16910028	0.0016613	8.75E-04	0.026091099	0.18748426	0.07754135	-0.46544552	0.3396654	0.16418839	0.27946806
0.10185337	-0.4219079	-0.10859156	0.1478405	-0.086933136	0.35161018	-0.815464	0.20393276	-0.5849838	0.19385195
-0.39092588	0.091842652	0.39455652	0.053853035	-0.31191063	-0.24505424	0.38697243	0.28092194	0.085011005	-0.32170868
0.23624945	-0.365283726	0.08440924	0.106099606	-0.2111392	0.09379578	-0.26418018	0.21746778	-0.4767809	-0.012980461
-0.072656155	0.295373675	-0.10586977	-0.25308657	0.119776726	-0.10393047	-0.14987564	-0.04967165	-0.046758175	0.11996746
0.42807722	-0.43554688	0.04741764	-0.4923935	0.10926628	0.17225933	-0.07548046	0.20184755	-0.18628979	0.05324936
0.014374733	-0.348944665	-0.005153179	-0.58847475	-0.15722466	0.02632904	0.072748184	-0.050709724	-0.12663984	-0.049122334
-0.1886816	-0.150499581	-0.22444153	0.107750416	0.06663036	0.21982002	-0.29419136	0.067323685	0.14069271	0.20821476
-0.2833624	-0.218973633	-0.21086931	0	0.1381855	-0.16788483	0.20158577	-0.18106842	-0.02609396	-0.19441748
0.20117092	-0.31856728	0.19518328	-0.18015337	0.008506775	-0.0814085	-0.8345375	-0.32666063	-0.16596031	-0.17418575
0.24398804	-0.103383541	0	-0.17813921	-0.014864922	0.04763174	0.6669159	0.21349382	0.3217826	-0.09566355
-0.036260128	-0.02998948	-0.33800983	0.71251154	-0.19118643	0.01376915	-0.28813124	-0.084015846	0.40619802	0.09736967
-0.023345947	-0.06051874	0.11633396	-0.027594566	-0.11471176	-0.11838055	-0.10282326	0.06693745	-0.045380116	0.10110474
0	-0.015075207	-0.03528166	-0.17851543	0.24943972	0.1720581	0.28906155	0.020392895	-0.12202597	0.18209553
0.4277711	0.03865242	0.07733917	0.54657364	0.04525757	-0.42476463	0.42300987	-0.26391792	0.32559204	-0.3709321
0.13730526	-0.367138855	-0.27504063	0.003820419	0.059996605	0.16512012	-0.035819054	-0.31463432	0.16696024	0.004650116
0	0.405820595	-0.18462276	-0.50578547	-0.046019077	-0.27138424	-0.8643942	-0.012643814	-0.00126791	-0.08803415
0.33389044	0.12197399	0.2790742	0.13547564	0.004766464	-0.17795229	0.57539225	-0.2040844	0.3387289	-0.08745384
0.6399007	-0.00996995	0.13481808	0.44863224	0.016626358	-0.58281565	-0.023851395	0.19760084	-0.3181486	-0.22704935
-0.31553125	-0.301577328	0.060295105	-0.15070772	-0.007811546	0.36147928	0.7326331	0	-0.6588025	0.1143775
0.07202339	0.060065984	0.11150885	-0.10044193	0.005270004	0	-0.8734579	-0.120868206	-0.090886116	0.10819721
0.18986368	0.648069855	0.2677312	-0.024086475	-0.059877396	0.09635544	0.30088234	-0.068834305	-0.22027063	0.05714512
-0.00500679	-0.3090148	-0.19730854	0.27357626	0.29360962	-0.053399563	-0.16623688	-0.09035444	0.13578749	0.29387856
-0.5917449	-0.27135515	0.16767168	-0.013804913	0.04711151	0.12292147	0.39603233	-0.31512737	0.58919144	0.100934505
0.042381763	-0.73504851	0.009921551	-0.36854362	0.19258404	0.13426208	-0.83408546	0.084760666	-0.643332	0.18119812
0.061481476	-0.125330688	0.7960777	0.021312714	0	0.068211555	-0.41915703	-0.46079922	0.3330655	-0.008785248
0.03061533	0.104869366	0.06224537	0.17792988	-0.097417355	-0.054897785	-0.71595144	0.20203829	-0.37269926	0.065662384
0.28815794	-0.41218901	-0.15184355	0.25581837	-0.11243057	-0.12305641	-0.4479618	0.21350479	0.03570223	-0.088733196
-0.19686031	0.233524322	-0.4295411	-0.4320116	0.062551975	-0.047214508	1.1320534	-0.16293764	0.16894007	1.55E-04
0.5089221	0.6892972	0.2509675	0.11665726	0.042994022	-0.09871197	0.28020573	-0.11155653	-0.35980177	-0.13896942
0.044995308	0.129157305	-0.08298206	-0.002863407	0.008506775	0.13859558	-0.48970413	-0.01239872	0.20800161	0.06300545
0.2620592	-0.201323985	0.27333927	-0.6766844	-0.0727458	-0.17795229	0.9052739	0.020062923	-0.13185263	-0.30169582
-0.48242378	-0.137091153	-0.22273302	0.28368616	0.106557846	0.1027503	0.07787323	0.10744381	0.05418539	0.3362646
-0.024907589	0.026432039	0.03656435	-0.27787733	-0.004806519	0.15461731	-0.5731306	-0.22504282	0.027533054	0
0.2638812	0.22605467	-0.33812523	0.8343921	0.11211252	0.2513914	-0.1385994	0.16800928	0.019924164	0.10689306
-0.28131628	-0.55786395	-0.05155325	0.35051966	-0.13803959	-0.067175865	0.05324459	-0.42349434	0.016880035	-0.097743034
-0.073246	0.073038577	-0.23197126	-0.23514843	0.06612539	0.111284256	0	0.050374985	0.079349995	0.36121655
-0.11483574	0.021412849	0.1855607	0.38016796	0	-0.107084274	0.5397072	0.27011013	-0.23303413	-0.11687374
0	0.5301001	0.26446342	-0.080209255	-0.24020195	-0.33438587	0.3057909	-0.49831724	-0.19934893	-0.34266472
-0.08880329	-0.150617835	0.043358326	-2.77E-04	0.02688694	-0.07599449	0.16767216	0.027153015	-0.27958584	-0.22680044
-0.50097466	-0.510019305	-0.15373039	0.14455462	-0.17681694	0.21691608	-0.2707634	-0.006159306	-0.04990244	0.28323555

ERCC1	*ERCC2*	*ERCC3*	*ERCC4*	*ERCC5*	*ERCC6*	*ERCC8*	*EXO1*	*FAN1*	*FANCA*
-0.85741234	0.28194189	0.056401253	-0.43408108	0.18687916	0.137578	0.01061583	-0.005841732	0.35434461	0.50238633
1.0909395	-0.634029385	-0.5148277	-0.7576456	0.9276295	-0.599261775	-0.04866266	0.045624256	-0.21463275	-1.01193885
0.778244	-0.355604175	0.05259323	0.21400785	-0.14532757	0.34018015	-0.069356441	-0.15680885	-0.085614435	-0.211053845
0.6661644	-0.160467625	0.42493725	0.10613489	0.6415434	0.036783695	-0.01589179	-0.47444248	0.273491145	-0.584338185
0.59029865	-0.240279435	0.5188303	0	0.60711193	0.14383006	0.078423022	1.5978656	-0.52711105	0.42711878
-0.35783958	-0.125180006	0.02389431	0.51977015	-0.078575134	0.776193383	-0.006062269	0.62400675	0.168222665	0.319770095
-0.24129486	-0.023669958	0.010260582	-0.35547066	0.3412428	-0.229990239	-0.29284453	-0.80088663	-0.414568185	-0.311960935
-0.014503479	0.128319734	-0.09685612	0.03999281	-0.010778427	0.115732195	-0.107833622	0.011128902	0.005482195	0.140874623
0.7420902	0.424019825	-0.054914474	0.088208675	-0.025549889	-0.004581928	0.111095666	0.10704231	-0.55309795	0.106727361
0.0515213	-0.055673838	-0.023283958	0.35561848	0.19743061	-0.064826014	0.046221972	0.33781385	-0.04745102	-0.056244852
-0.14515257	-0.028872013	0.002108574	0	0.09403801	-0.168854953	0.05745959	0.63948965	0.052357435	0.44206358
-0.20972109	-0.17997217	-0.08041668	-0.2846551	0.08597469	0.2185564	0.024989605	0.09408045	-0.38745475	-0.24551892
-0.38587904	-0.12259388	0.002108574	0.55425024	-0.3032732	-0.053024767	-0.18494463	0.32262993	-0.06654668	1.21E-04
0.45272732	-0.2690258	-0.08957672	-0.25119305	1.0307417	-0.226161005	0.12823129	1.045054	-0.395447015	-0.104758265
-0.56331825	-0.015244484	-0.062978745	-0.30634546	0.062763214	0.102265357	-0.03501749	0.7606783	0.105670689	0.118770123
0.20050621	-0.004296545	-0.0932436	-0.039245605	-0.009461403	0.106677772	-0.163993835	-0.011922836	-0.24840832	-0.109997272
0.8091631	0.142125843	0.2917261	0.20438099	0.121668816	0.101666928	-0.072011708	0	0.158840415	-0.23984289
0.47704697	0.24714637	-0.06383896	-0.22296524	0.22252464	-0.23119092	0.060800315	-0.5897908	0.293228865	0.053037645
-0.12837887	0.13952017	0.14445686	-0.29034042	-0.11531639	0.253151655	-0.020459414	0.41171694	-0.23473096	0.106854437
0.6491232	0.25191903	0.11953926	-0.56899977	-0.44988298	-0.166292905	-0.047289132	-0.17200375	-0.34188056	0.098940134
0.1289463	-0.108139993	-0.053746223	-0.09830046	0.20779133	0.059718135	-0.084795473	0.50201845	-0.19439125	0.11521268
-0.14767742	0.082748653	0.007634163	-0.34601116	0.057616234	-0.072183607	-0.051472665	-0.28132296	-0.056160211	-0.006192684
0.35175323	-0.16201639	0.03221321	0.15009165	0.37830162	-0.049238682	-0.120188715	-0.6188803	0.059086084	-0.49837804
-0.08958435	-0.202013253	-0.14504242	0.37071276	0.48815918	-0.23375535	-0.188751935	-0.7550764	-0.356023305	-0.2989738
-0.932457	-0.23790884	0.037241936	0.22352648	0.033385277	-0.062635662	-0.217766525	0.36217833	0.014296294	-0.081838607
0.18877125	-0.104215145	-0.081106186	0.24241018	-0.02020073	0.012056589	-0.16250634	-0.6445794	-0.23774767	-0.136029008
-0.55103874	0.098694562	0.08058357	0.16760063	-0.30823135	0.2879026	0.215774775	-0.20210981	0.442838905	0.171695472
-0.14278698	0.113814114	0.059196472	-0.29114914	-0.2216978	-0.01571393	0.046199323	0.18398094	0.021087885	0.148415329
0.9118805	-0.166252375	-0.045104027	-0.20660067	0.2192049	-0.227513074	0.076141834	-0.093421936	-0.092797035	-0.004082203
-0.08522606	0.244552135	-0.31406784	-0.014563561	-0.060850143	0.012382508	-0.011454821	-0.45688772	0.058552265	-0.179592135
-0.107489586	-0.110066414	-0.004624367	0.6150241	0.8929014	-0.05642963	0.064637184	1.0878935	0.22167325	-0.101052523
-0.13963366	-0.256699329	0.1083889	0.31543398	0.02921009	-0.157571315	0.090327025	-0.13276196	-0.460422275	0.123226406
0.6447706	0.119539738	0.28212643	0.022183895	0.30648327	-0.043670893	-0.11252332	0.29658985	-0.023403407	0.6936798
0.13389969	0.27114105	-0.44704437	-0.5308275	-0.28887463	0.050823449	-0.014185191	-0.35986853	0.542125941	0.111139534
-0.34138298	0.02279687	0.006924629	0.13333082	-0.9231067	0.054871323	-0.002576352	-0.18791056	0.153347015	-0.03865075
0.12920284	0.044729233	-0.13497639	-0.3997445	-0.620821	0.01736856	0.276273725	0.50926495	-0.391496657	0.16529369
0.1762867	0.37035465	0.01700592	0.25408506	-0.022276878	0.157108075	-0.036653281	-0.99817276	0.35627079	0.042016269
-0.3344183	0.065018177	-0.022860527	-0.08377552	-0.8101597	0.214954375	0.362496855	-0.31822824	0.326514965	0.115713355
-0.17044067	0.252500055	-0.045618057	-0.460948	-0.35924244	-0.08420349	0.001662732	0.004957199	-0.099251745	0
0.5685625	0.053603173	0.060138702	-0.11602068	-0.10737038	-0.057291269	0.02155805	-0.36505413	0.043892622	0.004814625
-0.49861908	0.217759847	0.088736534	-0.16237688	-0.7153406	0.36947179	-0.004841566	0.27715015	0.038176538	0.15219617
2.040409	0.72842598	0.2970991	0.45879555	-0.7671881	-0.102539778	0.247429847	1.6586337	-0.203112365	0.033255577
-0.26419735	-0.00298357	-0.03167343	-0.59327745	-0.31570864	-0.075464486	-0.55540945	-0.41124392	0.231637245	-0.180201055
-0.2635975	-0.26527953	0.38840675	-0.30477047	0.71080494	-0.078273534	-0.472171075	0.3580947	0.04016161	-0.352279905
0.6975231	0.19408226	-0.092009544	-0.11117792	0.033286095	0.072158335	0.059265375	0.4329443	-0.201378339	0.10838008
0.27116966	0.022685051	-0.07383537	0.006934643	1.0740385	0.585866435	0.07534075	0.2358861	-0.23441744	0.59752178
0.031089783	0.175008535	0.080099106	0.029453754	0	-0.129777905	-0.282587291	-0.71070766	-0.228012565	-0.316297055
-0.7479019	-0.079991816	0.21966743	0.01766777	-0.4268384	0.296118015	0.038653613	-0.26010227	-0.300986525	-0.36832357
-0.41861153	0.161900283	-0.22070503	0.35478735	-0.42064667	-0.005584955	0.22992921	0.46851063	0.09403586	0.706442585
0.16810036	-0.060337783	0	0.14704752	0.092357635	-0.138521908	-0.065286161	-0.9134865	0.091490745	-0.43243003
-0.027511597	0.31311512	-0.3172369	-0.13757133	-0.44778824	0.16363883	0.302294492	0.22451067	0.29504681	-0.202539682
-0.24573708	0.01271081	-0.06901932	0.8061881	-0.6228838	-0.056084395	0.109600545	1.0065327	-0.553793665	0.147609713
0.93203735	-0.25051832	-0.13114166	-0.17913008	0.57897854	0.10137487	0.005111455	-0.92221594	0.226961605	-0.5104084
0.3208599	-0.128092528	-0.010800362	0.06940317	0.26439667	0.14340615	-0.21742344	-0.53963757	-0.299534795	-0.051590443
-0.5288944	0.24368143	0.007669449	0.027896881	-0.3501892	0.34070992	-0.096363547	-0.013011456	-0.17223811	-0.076113703

FANCB	*FANCC*	*FANCD2*	*FANCE*	*FANCF*	*FANCG*	*FANCI*	*FANCL*	*FANCM*	*FBXW7*
0.29378033	0.307667965	0.072287558	0.18683338	-0.32051468	-1.261641	-0.10713196	0.55395174	0.22920418	0.33999252
-0.9525471	0.089361904	0.229027031	-0.5224838	0.25839233	0.5211725	0.01066494	1.1874604	-0.27548933	-0.2969756
0.5477586	0.0830667	0.138758895	-0.13395596	-0.10737753	0.39790773	-0.09795952	-0.12902403	0.4145651	0.5193677
-0.16746044	-0.33428812	0.055356977	-0.11196518	0.7886324	0.013783455	0.5794344	-0.26416636	0.056133747	0.6819825
1.3083105	0.055348395	0.601448535	-0.17408657	1.1256027	0.87315845	0.15902328	-0.08745098	-0.10500431	-0.2131548
0.17281055	0.168979165	0.912793625	0.027874947	0	-0.07020807	0.41434336	0.08881569	0	-0.5986366
-0.17332888	-0.131061555	-0.84530235	-0.10385132	-0.17436028	-0.27773857	-0.86872864	0.16328764	-0.34421158	-0.13242102
-0.59304	-0.1739242	-0.91779755	0.08360195	-0.15199947	-0.60542965	-0.29330063	-0.13691664	0.004861355	-0.039304733
-0.11467266	-0.56069375	-0.18805933	0.1361494	0.015425205	0.19439173	-0.2703433	-0.09264803	0.07286835	-0.023454666
0.79496574	0.22623014	0.190677882	0.09531689	0.14845324	0.105826855	0.3258052	0.51832104	-0.028814316	-0.28621197
0.55322695	-0.168218135	1.72877475	-0.05820465	0.21646166	1.4947758	0.7152996	0.9063964	0.16590881	0.005614758
0	0.022019625	0.12158036	0.09102726	-0.04772663	-0.669333	0.38236475	-0.013545036	0.010295868	-0.33300304
-0.6973634	-0.48549676	0.106143715	-0.05550289	6.31E-04	0.15180111	0.89237595	0.7185793	-0.04925108	-0.063290596
0.16288471	-0.074009655	0.592308035	-0.16662502	0.42367697	0.84934235	0.29918003	0.04330015	-0.27330446	-0.2772479
-0.47233486	0.23900247	-0.07799959	0.19912624	-0.21636248	-0.24056005	0.023578644	0.5844002	0.017846584	-0.16881132
0.76275253	0.177320955	-0.42546749	-0.07231617	0.002935886	-0.5106292	-0.77258015	-0.42967987	-0.35141277	-0.040932655
-0.13765621	-0.061580895	0.477969165	0.018623352	6.31E-04	-0.15663862	0.05262375	0.043132305	0.41829538	-0.23324776
0.029912949	-0.238028285	-0.115750075	-0.073298454	-0.020880222	-0.006037712	0.13187885	-0.18401289	0.1688137	0.30079126
-0.4715886	0.31531144	0.32064605	-0.016511917	0.15513706	-0.02212286	-0.39434338	0.1368804	-0.15129375	0.14164925
-0.45782328	-0.16080427	-0.283955095	-0.10202789	-0.6684437	0.0438509	0.12799215	-0.03997183	-0.1122241	0.4788823
-0.14198923	-0.096380713	0.080827953	0.057367325	-0.17823029	-0.3684225	-0.1166029	0	0.009542465	-0.07441616
0.11844492	-0.002752305	-0.351897715	0.12863922	-0.13087893	-0.5033202	0.055106163	-0.5168338	0.33258057	0
0.07698345	-0.29537582	-0.187767982	-0.134099	-0.08695793	-0.13678217	-0.7905822	0.4068017	-0.17436981	0.3734641
-0.97161484	-0.083627225	-0.67111945	-0.1721201	-0.1978507	-0.013605118	-1.2254543	-0.45401525	-0.1480546	0.48443985
0.113438606	0.090677264	0.09408021	-0.041740417	0.45628595	0.2173338	0.8694954	0.43923855	-0.32423306	0.124708176
-0.035419464	-0.17650366	-0.31236267	-0.06482792	-0.1119585	-0.19692898	-0.40102053	-0.37069464	-0.2546935	0.49689007
0.016806602	-0.241480115	-0.53760792	0.1032238	0.7919216	-1.21978	-0.55529594	-0.30450344	-0.17265558	-0.009831429
0.05282402	0.185603383	-0.11959004	0.14750862	0.29939556	-0.11506462	0.0079422	-0.047228813	0.11091232	0.076392174
-0.41992712	0.033672565	0.076740026	-0.08115578	-0.043680668	0.2227974	0.038520813	0.71448755	0.2076912	-0.25761032
-0.23841095	-0.24224735	-0.49582362	0.124653816	0.117687225	-0.3719406	-0.8748479	-0.9169545	-0.029953003	0.33016634
0.88662624	-0.22405505	0.373369455	0.018623352	-0.17669249	0.2005043	0.33306646	-0.088795185	-0.16020727	-0.2379837
-0.22304296	-0.008177757	0.41635609	-0.09745407	0.2695799	0.47769833	0.52029943	0.36216545	-0.27280045	0.026478767
0.46104002	0.68208861	0.468868255	0.24956799	0.13391685	1.1023493	-0.08213282	0.84602976	0.23461294	0.28070402
0.043352127	0.372311825	-0.175097945	0.07915974	-0.38284636	0.030483246	-0.4432373	-0.2830701	0.11229229	-0.31312752
0.15338135	0.32668972	-0.47785305	0.21003723	0.4097395	0.13047361	-0.22802639	0.3216834	-0.06546211	-0.14052963
0.18416071	0.356729268	0.145884993	0.061362267	-0.2589655	-0.2203021	0.21810007	0.15196562	0.10343838	0.02086544
-0.07329607	-0.058974985	-0.70876026	0.12699795	6.31E-04	-0.27682352	-0.887393	-0.5059099	-0.091145515	0.14470243
0.101438046	0.21702385	0.004141569	0.07475567	0.09680271	-0.4220209	-0.30403376	0.3921647	-0.005508423	-0.07806873
-0.17959929	0.062694075	0.530505185	0.16662407	-0.017895699	-0.01364851	-0.77739	-0.9742136	-0.1281743	0.04216671
-0.3089466	0.152429105	-0.21397805	0.12886715	-0.1574111	0.26105976	-0.95903254	0.2524619	-0.051629066	-0.22365093
-0.23339081	0.37234783	0.076167343	-0.16998005	-0.35767698	0.046714783	-0.3245101	-0.25786352	0.14176083	0.37182665
-0.115740776	0.311776165	1.07208255	-0.05402279	-0.15420532	0.98142433	0.3475814	0.31878185	0.09913921	0.006021977
0.25864458	-0.015939236	-0.28489208	-0.018089294	0.62578964	-0.15259361	0.16827345	0.3597455	-0.2351017	0.02922821
0.21279716	-8.04E-04	0.38356447	-0.14779377	0.84559727	0.2774167	0.068923	0.14216661	0.09427261	-0.2718506
0.15904808	-0.013984915	0.275827645	0.08696556	0.063335896	0.43443394	-0.13312626	-0.7006068	0.17509556	0.4425335
0.5473118	-0.028380634	0.089610338	-0.038434982	6.31E-04	0.60861254	1.1559811	1.5849891	0.9752183	-0.050688267
-0.23437262	-0.40103674	-0.637312415	-0.027734756	-0.08179855	0.18814564	-0.6004758	-0.4475398	0.15317392	0.16161633
0.22730684	-0.502774475	-0.44866944	-0.20490456	-0.40419245	0.05961418	-0.08305645	-1.0686955	-0.15857697	0.31514168
0.3175025	0.426870575	0.28494835	0.11433315	-0.0806551	0.6552391	1.337141	0.63149834	0.10711527	-0.003396034
-0.7572193	-0.30944705	-0.7964368	0	-0.034631252	-0.14038038	-0.7240124	0.13462257	-0.037215233	0.11833286
-0.070879936	-0.279580365	-2.97E-04	0.30248833	0.22013426	0	0.09564304	-0.5171294	0.2560029	0.18824863
-0.014282227	-0.165145875	1.0550108	-0.024503708	0.44130754	0.35520554	0.31493473	-0.23735285	0.011908054	-0.11845207
-0.4382968	-0.46058463	-0.371056085	0.019241333	-0.406219	-0.44847918	-0.8624644	0.04330015	0.19326591	0.097056866
-0.11351776	-0.49614668	0.47844316	-0.08750248	0.14829874	-0.1571312	0.21414852	-0.27410793	-0.06710148	0.010192871
0.1131382	-0.058958767	-0.285102365	0.04443264	-0.17089558	-0.22021055	-0.13773823	-0.995306	-0.072116375	0.039505005

FEN1	*GEN1*	*GTF2H1*	*GTF2H2*	*GTF2H3*	*GTF2H4*	*GTF2H5*	*H2AFX*	*HELQ*	*HLTF*
-0.064557553	-0.094596386	-0.293721675	-0.18221903	0.25090694	0.31349945	-1.4904733	0.523699765	-0.2935226	-0.6219044
-0.79802488	0.12363577	0.746372217	0.22172451	0.119143486	-0.51104164	0.061789513	-0.6691928	0.157984498	0.7613478
0.8702035	-0.055342674	-0.131127117	0.06853771	0.22109365	0.41949463	0.2620926	-0.390412095	0.081334355	-0.41564655
-0.003551245	0.595099	0.8385005	-0.21806717	-0.24307251	-0.31167603	0.55420494	-0.23146653	0.042915105	0.30963516
0.25661206	0.3744836	0.710881945	0.014530182	0.10371208	-0.020000458	0.027182579	-0.31962156	0.172073128	-0.16298676
0.208075525	0.08962965	-0.58944822	0.33567238	-0.3345418	-0.12691784	0.48674202	0.42188549	0.001573325	-0.023974419
-0.459299565	-0.21702719	0.25150895	-0.20791292	-0.055532455	0.15031433	-0.32859135	-0.214385985	0.039390563	0.06359196
0.36061215	-0.42571306	-0.264752385	-0.21665287	0.12830591	0.07387352	-0.20977116	0.573140145	0.029551745	0.43557262
-0.354990005	-0.1255517	-0.15855813	0.4762001	0.07433748	-0.07331848	0.5973034	0.108487605	-0.075407744	0.20187187
0.017378091	0.44869995	-0.111454487	0.42463398	-0.021970272	0.11011791	-0.5246372	0.187083005	0.437711	0.6232939
0.59394502	0.11720562	0.009233713	0.61857605	-0.058333397	0.20563126	0.63233757	0.05162096	-0.23118115	0.5255718
-0.154409416	0.57034254	0.205723525	0.679368	-0.11028147	-0.05088997	0.603673	0.2629664	-0.053627728	0.03394699
-0.42112613	-0.48239088	-0.280006175	0.2520342	-0.08579302	-0.12768364	1.1440525	0.079006671	0.23705745	0.56458664
0.336409091	0.37149858	-0.14737439	0.89993095	0.27497244	0.05601883	0	-0.199587345	-0.04237318	0
0.165249587	-0.07456541	-0.11229253	0.30220175	-0.003299236	0.17384338	-0.8594465	0.193951845	-0.050657273	1.72E-04
-0.45392825	0	-0.40070795	-0.10407257	-0.09343386	-0.13358688	-0.6977887	0.045952082	0.059988975	-0.46267128
0.551739685	0.06233263	-0.187678585	0.6037779	0.03607273	0.17959976	1.3887272	-0.100601435	-0.26723003	0.095606804
-0.104101419	0	0.65807008	0.6705742	-0.29757118	0.2900982	-0.12233925	-0.076370955	-0.070870398	0.022611618
-0.27270627	0.16298008	-0.296241995	-0.04685116	-0.026025772	0.06381035	0.36406708	-0.085396052	-0.24155164	-0.51060295
-0.139806985	-0.35029554	-0.190616365	-0.03557968	0	0.040639877	0.007792473	0.036684752	-0.1749351	-0.62867355
0.140155315	0.061886787	-0.256143805	0.47192144	-0.13255644	-0.33996868	-0.29005814	0.182458638	-0.2092197	0.37691402
-0.04439187	-0.24509001	-0.190778495	0.13585949	-0.045407295	0.022392273	-0.53200483	0.017568112	0.031622885	0.28378105
-0.898430565	-0.26538515	0.501373785	0.052594185	0.04510832	-0.35123444	-0.048915863	-0.45760369	-0.033655165	0.02587223
-0.340435735	-0.4172635	0.21728515	0.029084206	0.009994984	-0.25632954	-0.12625408	-0.302943945	0.163982628	-0.7061577
0.59977605	0.59247017	0.49274683	0	0.11215925	-0.17982197	0.5691147	0.077283858	0.040090322	0.11983585
-0.226849795	-0.14547634	-0.123748305	-0.105410576	-0.32528353	-0.14835548	-0.15158367	-0.352065325	0.079871655	-1.194953
-0.19813204	-0.13718462	0.29476714	0.34299564	-0.10843229	-0.033395767	-0.6073303	-0.228938105	0.057339905	-0.17824554
0.105554819	0.27827215	0.10398984	-0.09732294	0.004016876	0.095033646	0.21915531	0.06849718	0.053230521	-1.0284204
0.3576858	0	0.377351525	0.06731892	0.018298626	0.091529846	0.33410645	0.001889467	0.033264637	-0.054024696
-0.79173635	-0.17850065	-0.116261243	0.014530182	-0.09477186	-0.20670319	-0.23828888	-0.151649478	0.15717721	0.27752876
0.48652649	0.85532045	-0.20042348	0.2620325	0.120416164	-0.0650444	-0.09582043	-0.085654258	-0.021489382	-0.023974419
0.35055947	0.14579582	0.757096285	-0.04380846	0.24176884	0.518631	0.2937889	0.033481121	0.067058086	-0.77326155
1.30045175	0.08210468	0.182929035	0.2948413	0.204288	0.27135468	0.3357935	0.25049138	0.127387286	0.15589046
0.175976515	-0.5307884	-0.19092631	-0.008249283	-0.060488224	0.23488998	-0.40238333	0.26924325	-0.170845985	0.58913326
0.03544569	-0.09024191	0.208856345	-0.09255028	-0.11312866	0.16484451	-0.08111286	0.102081535	0.085395097	1.4833231
0.81708573	0.06591129	-0.227968695	-0.17436218	0.22215796	-0.12674141	0.2519493	0.40384006	0.12385297	0.60480976
-0.425518515	-0.54619265	0.068774462	-0.014286518	0.29552078	0	-0.7561741	0.154569625	-0.249743936	-0.97831583
-0.186699628	-0.5291743	0.17586875	-0.16030884	0.14779043	0.15906525	0.35226822	-0.335339065	-0.102498055	-0.124044895
0.236977578	-0.14147806	-0.240271805	-0.5280857	-0.2060256	0.10251236	-0.43831158	-0.213540555	-0.024917125	0.23390198
-0.19147277	-0.43290472	0.017558098	0.4426689	0.33129787	-0.005277634	-0.08776188	-0.183341981	-0.001369475	-0.079705715
0.20752716	0.04093504	-0.207818507	-0.30267859	0.098496914	0.15548325	-0.6713543	0.168703077	0.147455695	1.0310612
0.19327688	0.13974333	-0.32923889	-0.1345396	0.037130356	0.001661301	-0.21566677	-0.0914979	-0.18470597	0.9623327
-0.184244155	-0.067350864	0.665515435	-0.5628767	-0.14366293	-0.035978317	0.6965971	-0.27407264	-0.225024465	0.25335598
0.6263628	0.25363827	0.277770285	-0.095378876	0.09454203	-0.019155502	0.012201309	0.046925307	-0.03382492	-0.23825932
-0.241938115	-0.15580702	-0.018265485	-0.29557276	-0.067343235	0.3121662	-0.8604922	0.095493795	-0.08360409	0.16861153
0.74542378	0.29143333	0.052420378	0.8679056	0.15755367	0.16104698	1.3668404	-0.14060927	-0.021530865	-0.17927265
-0.55182147	0.08567095	0.04446745	-0.25022888	-0.03355646	-0.11982632	-0.47101545	-0.066150188	0.050573588	-0.51325893
0.295723435	0.17074585	0.107326988	-0.05382061	-0.18873072	-0.4792986	-0.6127362	-0.206265925	0.177962068	-0.6669507
0.83389067	0.8458104	-0.56792712	-0.136055	-0.10637522	-0.15156174	0.23854446	0.381297825	-0.10454011	0.42679977
-0.9470236	-0.3713913	0.154696227	0.15315199	-0.5816779	-0.06754303	0.1583023	-0.086260796	0.220666645	-0.1549468
-0.118344308	-0.18382835	0.378080605	-0.022035122	-0.31167936	0.039782524	-0.73535347	0.056351424	0.120177507	-1.057025
0.77414823	0.597136	-0.22588348	0.13021278	0.07375622	0.15052986	0.67549515	0.14485717	-0.158578155	-0.62557125
-0.808053975	-0.46513796	0.26126337	1.2464523	0.19748974	-0.1311264	0.8312473	-0.624841215	0.1265893	-0.31039286
0.172807454	0.005835056	0.254237418	-0.003879547	0.16928434	-0.04947281	0.14033508	0.178501847	-0.153863905	-0.2446518
-0.090584277	0.014714718	0.048540356	-0.17647219	-0.006058216	-0.013189316	-0.05290413	0.134073973	0.070565939	-0.1016984

HUS1	*KNTC1*	*LIG1*	*LIG3*	*LIG4*	*MAD2L1*	*MAD2L2*	*MBD4*	*MDC1*	*MGMT*
-0.37277174	-0.32763004	0.1905098	0.1287694	0.40665388	-0.003026009	-0.32644653	-0.5373752	-0.70069456	0.046664715
0.31286192	0.06794596	-0.16423035	0	-0.3260541	-0.47134924	-0.581265	0.492172955	0.29125476	-0.032044888
0.43846226	0.7825527	0.28530216	0.003159523	-0.3908782	0.2978196	-0.59587955	0.112471818	0.27662444	0.977088
-0.005734444	0.5097017	-0.08438873	0.014353752	0.6362815	0.42744017	0.66056824	0.178532835	-0.126607655	-0.85035944
-0.33277655	0.291224	0.054283142	0.5809345	0.02132845	0.7985177	0.38993454	-0.27361536	0.284267665	-0.022255898
0	-0.2966714	0.057144165	0.06683302	-0.26945686	0.16502285	0.9442253	0.6689887	0.404145485	-0.16137028
0.26293325	-0.35853004	-0.19520855	0.037710667	0.054480076	-0.46264982	-0.44249153	0.43897032	-0.24365282	0
-0.18225622	-0.1492939	0.12058258	0.06593084	0.17937708	-0.11640787	-0.27740097	-0.168946025	-0.63585378	0.024865627
0.026659012	0.023753166	0.1748743	0.26711655	0.11046457	0.13366556	-0.16188812	-0.25527191	0.12652087	-0.22649908
0.045619965	0.63145304	0.31754684	-0.09996176	0.07587242	0.5005307	0.045926094	0.015868902	0.099793912	0.5644722
0.2880473	0.72116184	0.025197983	-0.12702942	0.12437153	0.7751813	0.23398685	0.57701945	1.3341689	0.35434723
0.101592064	0.08398056	-0.31537056	-0.20276165	0.33205748	-0.019286156	0.016324043	0.277596715	0.05515313	-0.14203596
0.21486235	0	-0.002343178	0.1436615	-0.08559036	0.30521202	0.20545578	0.20923805	0.033353805	-0.096719265
0.25419474	0	-0.06204033	-0.28321695	-0.24563456	0.27176428	-0.1427908	0.16907025	0.414270635	0.15342331
-0.18781948	0.25032902	0.031326294	-0.13300896	-0.005238056	-0.16980791	0.1582222	-0.099699975	0.008484125	-0.18474722
-0.1362915	0.11737633	-0.022471428	-0.112808704	-0.033126354	-0.4583192	-0.6408634	-1.1796892	-0.107006788	-0.02842474
0.17661238	-0.15415382	0.032722473	-0.06630182	-0.4547863	0.25279284	-0.20240784	0.29983854	0.204030275	0.3174324
-0.49018764	-0.07626772	-0.17655468	-0.26292086	0.05782938	0.92672205	0.33761978	0.161794185	-0.111793278	-0.4001317
-0.0426507	-0.1550951	2.11E-04	0.26486826	0.07944822	0.25927925	-0.15551853	-0.44133235	0.0839901	0.19313622
-0.33038998	-0.58779335	-0.14335155	0	-0.107952595	0.12056875	0.6340885	-0.29980254	-0.12989473	0.41298866
0.21171856	-0.05317211	-0.033994675	-0.09834576	-0.02837658	0.7097764	-0.2628584	-0.080046655	-0.36290025	-0.053436756
-0.2599759	-0.34014654	0.050523758	-0.18361807	0.21882343	-0.5661869	0	-0.361487865	-0.26604319	-0.36785936
-0.14048052	0.2391839	0.21626568	-0.13807869	-0.04915762	-0.9421444	-0.40700054	6.80E-04	0.12978029	-0.33295012
0	-0.056192875	-0.4197154	-0.12381697	0.31925964	-0.9793267	-0.192029	0.13017535	0.062425614	-0.4103613
-0.33774042	0.6055422	-0.35071468	-0.11467981	0.13769674	-0.104278564	-0.2110672	0.075869085	-0.199845555	0.4960432
-0.2932248	0.007868767	-0.13131046	0.086277485	-0.15514946	-0.7721071	-0.005770683	-0.092833517	-0.012004135	-0.29395962
0.12486887	-0.14830637	-0.004712105	0.305861	0.036627293	-0.863286	-0.5806956	-0.135782005	-0.224051005	0.56471443
-0.15553904	-0.41589165	-0.13756084	-0.12314844	-0.0667882	-0.054708958	0.16753769	0.128224848	-0.162127017	0.48964024
-0.3917117	1.4415321	0.54609203	-0.10441923	-0.5330167	-0.5659852	0.068237305	0.384878155	0.2211082	-0.070660114
-0.1994524	-0.7411876	-0.18550682	-0.17892742	0.31999493	-0.79178715	-0.68169403	-0.038874862	-0.35045457	-0.10357714
0.31757927	-0.1561346	-0.39306164	-0.073636055	0.40502405	0.20707369	0.61353207	0.73826672	-0.03146887	0.019883633
0.19948483	0.4433713	0.14537144	-0.18168879	-0.37030077	0.58869886	0.24351406	0.72023392	0.138225558	0.52399445
0.011365891	0.46107388	0.38403416	0.28292418	0.63762045	0.36105776	0.31495094	0.196380855	0.43735075	0.15468884
0.22022247	-0.476964	0.3140421	-0.16285324	0.14500332	-0.08755827	0.12877941	0.0014143	0.032116175	-0.2819724
0.014546394	-0.3675089	-0.1778431	0.020161629	0.06455612	0.26849413	0.99534035	0.639954575	0.043140173	-0.2522149
-0.06786823	-0.19522429	0.16587639	0.06492138	-0.22431707	0.9628453	0.045926094	0.120790959	0.06579971	0.18757248
-0.20310497	-0.22276878	-0.001457214	0.08107519	0.7629194	-1.0998797	-0.3869424	-1.02178075	-0.303560495	0.014937401
0.16909885	0.75326824	-0.301157	-0.017386436	-0.47328806	-0.10492849	0.2184372	-0.329766035	-0.18999004	0.1775713
0.12628412	-0.41780806	0.06888199	-0.1764679	-0.14567137	-0.19019127	-0.051200867	-0.56637715	-0.26810527	0.7207165
0.22899818	-0.6439996	0.1480484	0.012592793	-0.59416723	-0.20948029	-0.03691101	-0.23609638	0.130837915	-0.3063283
0.96976376	0.046533108	0.024061203	-0.058362007	-0.061102867	0	-0.2262516	-0.28522873	-0.10799265	0.71951866
-0.078976154	0.1977129	0.5747471	0.5820527	-0.59537363	0.64253664	1.2904835	0.702935695	-0.031626462	0.45328522
0.5072684	0.14781237	-0.51178217	-0.17016506	-0.5201602	0.079165936	0.72016716	-0.53581333	-0.075411556	-0.410604
0.16877222	0.051052094	-0.22644043	0.26889515	0	0.61825037	-0.42508268	0.15673828	0.08952427	0.11423683
-0.10643053	0.46751356	0.42156982	0.11139727	-0.025879383	-0.37822676	0.30057907	0.20324087	-0.120054724	0.001924038
0.86561966	1.3519487	-0.13215923	-0.22195339	0.3839321	1.0075345	0.48814583	0.28392768	1.1861701	-0.43303728
-0.289083	-0.60554266	-0.0576849	0.120128155	-0.08882904	0.019896507	0.09968281	-0.412570475	-0.450738435	0.27718735
-0.4320326	-0.018710613	-0.4634924	0.09269476	0.17917633	0.190691	0.13923645	-0.298586845	-0.282261615	-0.43105936
0.2904458	0.716475	0.42940426	0.19303417	-0.08850384	0.3908968	1.0406456	0.747107505	0.120563745	-0.5592828
-0.2773595	-0.5248246	-0.38516808	-7.53E-05	-0.1854968	-1.2365494	-0.39232063	-0.185389512	0.175872325	-0.15024614
0.08774328	-0.01195097	0.00344944	0.007392407	0.12069416	-0.081727505	-0.016597748	-0.41626836	-0.32154846	-0.2169137
-0.26652145	0.1384778	0.029166222	0.3039117	-0.06512451	1.1625066	1.1595173	-0.17409301	1.0990891	1.0804806
0.06927347	-0.1174593	0	0.2801323	0.11920309	-0.92840624	-0.22241402	0.06195569	0.43776082	0.070699215
-0.06598425	0.38221455	0.296422	0.023537159	0.19469547	-0.35695887	-0.22533989	-0.12984967	0.29331684	-0.34213924
-0.58278656	-0.26999664	-0.13394642	0.007392407	0.1799407	-1.028913	-0.62921715	-0.46318722	-0.372734535	0.31930637

MLH1	*MLH3*	*MMS19*	*MNAT1*	*MPG*	*MPLKIP*	*MRE11A*	*MSH2*	*MSH3*	*MSH4*
-1.0578737	-0.22184086	-0.9899545	-0.49935818	0.19037533	-0.7408633	0.25518227	-0.40825558	-0.53367472	0
-0.23147106	-0.09024	0.2886572	-0.42559338	-0.5153289	0.60100365	0.025439262	0.24310493	0.637747785	0
0.15544891	-0.53132534	0.5300951	-0.45297432	0.35114956	0.24819183	-0.27932024	-0.07347679	0.503656145	0
-0.119930744	0.48307562	-0.005145073	0.35426617	-0.27175617	0.4975834	0.33876467	0.050323486	0.16104698	0
0.20246935	0.54622173	0.1540308	-0.001125813	-0.16700935	0.3232622	-0.17989254	0.22463417	0.023088695	0
-0.31631374	0.09817219	-0.51905155	-0.14079666	0.17028427	0.4555378	0.38584232	0.16691208	-0.008651258	0
-0.12557697	0.011497021	-0.6187434	-0.3161292	-0.034879684	0.4838314	-0.022466183	-0.20657301	0.058000325	0
-0.5967369	-0.09350586	-0.17807484	0.47572327	-0.018717766	-0.6240001	-0.019640446	0.010474205	-0.166425231	0
-0.21000957	3.05E-04	0.2854662	0.35842562	-0.013194084	-0.07737923	0.34697056	-0.061914444	0.105645895	0
-0.17417288	0.20984602	-0.22166443	0.5252857	0.42864037	-0.13216782	0.60516214	0.6838341	-0.12203312	0
0.2909479	-0.21391344	0.056833267	-0.26258755	0.003710747	0.3520713	-0.36609888	0.49865055	0.552637815	0
0.021809101	-0.10246515	-0.12389755	0.00137043	0.036841393	0.35949755	-0.06828213	0.22840023	0.068570135	0
-0.044312	0.5133252	-0.03375721	-0.2781124	-0.015011787	0.17249775	-0.10885811	0.5964985	-0.074123385	0
0.09517908	0.26954317	0.025511742	0.10622549	0.35253048	1.1138563	0.104073524	-0.0750103	0.23257971	0
-0.093832016	0.1128602	-0.021672249	-0.073636055	-0.07319164	-0.42118406	-0.1939745	0.4436884	-0.125607255	0
0.021431446	-0.41079283	-0.29981136	-0.5996704	-0.001321793	-0.4771905	0.10575962	-0.8214302	-0.200638295	0
-0.05647707	0.33510542	0.58845806	-0.34770727	0.43750477	0.46084452	0.29630613	-0.09096527	0.28014493	0
-0.15844488	0.21912956	-0.049419403	0.18590736	7.82E-04	-0.5316663	0.15756702	-0.035770416	0.264805792	0
0.11579704	0.13690472	0.2960987	-0.056028843	0.07960701	0.20058393	-0.039050102	0.17379284	-0.167569865	0
-0.17396593	-0.28693485	-0.07452679	0.11875725	0	-0.5578022	-0.31726408	0.075888634	-0.196460955	0
-0.054523945	-0.10328627	0.16595173	0	-0.058060646	-0.26326275	0.26213455	0.053676605	0.13349128	0
-0.40280533	0.16289377	-0.011571884	0.29073572	-0.020463943	-0.43352985	-0.10493183	-0.35041237	-0.36848044	0
0.115138054	-0.2628603	0.08801937	-0.4142127	-0.1422863	0.066447735	-0.11067438	-0.6778374	0.51028753	0
0.09395075	-0.06609249	-0.33462334	-0.25680542	-0.08344364	0.23275661	-0.05563402	-1.0180984	-0.06745696	0
0.20943975	0.14813232	0.34222412	-0.004676819	-0.04682064	0.3156438	-0.2333827	0.56807613	-0.07791543	0
0.007734776	0.042231083	0.013208389	-0.08848715	0.1680851	-0.42392826	0.033458233	-0.42251825	-0.189522745	0
-5.66E-04	0.24106073	0.15615177	0.02393961	0.001926422	-0.25754833	-0.2509308	0.31193542	0.155622245	0
0.08094025	-0.14159536	-0.84848547	0.046422005	-0.1115284	0.002887726	0.114161015	-0.25766182	-0.30728173	0
0.34706783	0.12064648	-0.15115356	0.15272236	-0.12353134	-0.43399048	-0.18149805	0.5073395	0.231251955	0
0.22465134	0.05491686	-0.16515827	-0.22696447	0.09226036	-0.67294407	-0.06492329	-0.8706932	-0.111461162	0
-0.30023623	0.28846264	-0.115849495	-0.25378275	0.23673058	0.84310627	0.4316802	-0.1587429	0.09343362	0
-0.06986284	-0.065907955	0.6173258	-0.15925932	0.17694378	-0.078196526	-0.2536583	0.22010231	0.450717445	0
-0.292871	-0.41012573	0.05094719	0.18058777	-0.25235844	0.34149265	0.038194656	0.7546787	-0.097882033	0
0.023939133	-0.10705328	0.18287754	0.11490965	-0.11811733	0.21684933	-0.025096416	-0.07526207	-0.16668105	0
-0.3574586	-0.009178162	-0.2750883	-0.30459452	0.023878098	-0.22148561	0.09900999	0.37005615	-0.069991588	0
-0.019627571	0.053041458	-0.15014076	0.12365198	-0.31256008	-0.16732454	0.075683594	-0.16994	0.163333177	0
-0.032553196	0.021800041	0.14390469	-0.013326168	0.2614603	-0.20540047	0.026497364	-1.1693611	0.32215762	0
0.06272268	0.37674952	0.27863216	-0.16205025	0.15638638	0.0760088	0.72904444	0.326972	-0.121360779	0
0.34361506	-0.03726101	0.19505405	0.5395622	-0.006467819	-0.20164776	0.16515827	-0.30870724	-0.032880785	0
0.15580225	-0.18935871	0	0.04211855	-0.00769043	-0.21807623	0.13348293	-0.19499302	0.43489075	0
0.12194157	0.008956432	-0.121115685	0.06162548	-0.1443739	-0.15919256	0.04286766	0.073946	-0.137610197	0
0.2926159	-0.1511774	-0.9908905	0.051454544	-0.047976494	-0.02743721	-0.024206638	0.405591	-0.018061638	0
0.11075306	0.06124115	-0.15007877	0.47235966	-0.08797741	0.15759802	0.001160622	-0.26087618	0.10417843	0
0.2932992	-0.023528576	0.46866417	0.5204201	4.56E-04	0.6398325	-0.21243477	-0.0721302	-0.1533916	0
0.16512299	0.1100111	0.08533859	-0.29248285	0.14815617	-0.6386905	-0.16379166	0	-0.289818525	0
-0.10062599	-0.01712513	-0.46452332	0.06521034	-0.40599346	-0.059962273	0.06103182	1.0968838	-0.042108775	0
-0.44053984	0	-0.7723522	-0.036551952	0.17044449	-0.14460039	-0.2952881	-0.9409847	-0.16461539	0
-0.6209841	0	-0.17551422	0.13073778	-0.017353058	0	-0.041225433	-0.321002	-0.244548563	0
-0.5112152	-0.26943827	-0.45587397	-0.31530333	0.10287285	0.033363342	0.011211872	0.26311588	-0.33371234	0
0.05512905	-0.119550705	0.09442234	-0.1986165	0.024443626	-0.49026012	-0.22671556	-0.71866083	0.060547828	0
-0.44495535	0.33996105	0.008811951	0.41124249	0.11784935	0.003285408	-0.04825163	0.12754631	0.14840841	0
0.049562454	-0.002518177	0.05067253	0.10435295	0.069950104	0.25208187	-0.13565588	0.002626419	-0.358999245	0
0	0.1751051	0.9979992	0.08235741	-0.24972153	0.23293829	-0.41512728	0.081339836	0.34045862	0
0.046058655	-0.3053255	0.08583164	0.17399931	0.17634392	0.046933174	-0.17233324	-0.62676716	0.231768608	0
0.14089918	-0.5537343	0.06167507	-0.26841545	0.20732594	-0.949419	-0.09581566	-0.65343714	-0.005096675	0

MSH5	*MSH6*	*MUS81*	*MUTYH*	*NABP2*	*NBN*	*NEIL1*	*NEIL2*	*NEIL3*	*NHEJ1*
-0.2096591	-0.56404425	-0.06577253	-0.081343174	-0.21511507	-0.9825611	0.251460555	-0.46504307	0.6248288	-0.17305374
-0.5213046	0.153523445	-0.14742899	-0.30978775	0.007297993	0.16125059	-0.71570682	-0.03706026	0.23627949	0
0.5306277	0.701890945	0.5285778	0.33587027	-0.23831034	-0.028464317	-0.42109585	0.8784547	-0.18410683	0.21138382
0.7916522	0.895360475	0.16822052	0.66066885	0.15689373	0.4444127	-0.263931513	0.17870855	-0.5972538	-0.003005981
0.71601677	0.30413175	0.13663197	-0.08776331	0	-0.45304632	-0.465186125	0.29839945	0.04787588	-0.016687393
0.040895462	0.37156462	0.14170265	0.12672281	-0.06005621	-0.4611683	-0.007031202	-0.1653943	0.35041332	0.08360243
-0.43154955	-0.07423377	-0.20004892	0.28968763	-0.12295818	-0.028607845	-0.153928756	0.4407258	-0.19000626	-0.15373516
-0.23696089	-0.091876029	-0.42280722	-0.24415302	0.11296368	0.03569603	-0.012309075	-0.030592918	-0.14458609	0.16672039
-0.14977837	-0.207540275	-0.08248043	0.31255674	-0.018818855	0.8067484	6.28E-04	-0.36483288	0.03495884	-0.41700268
0.63743305	0.41456031	-0.08666611	0.38750792	-0.42687798	-0.7046375	-0.30748391	0.22748423	0.51063204	-0.34064722
0.9491315	0.395870205	0.010144234	0.6526141	0.5781045	0.3205552	0.034199238	0.21984768	0.5798569	-0.07920647
0.394073	0.160774465	0.015772343	-0.118029594	0.1773758	0.07474232	0.1015954	-0.07592344	0.09447813	0.017504692
-0.2055788	0.468609335	-0.3887825	0.23022985	-0.14905596	0.27159166	-0.086895467	-0.17301226	0.30096722	-0.031873703
1.8579268	0.18135595	0.71538687	0.27265692	0.35665083	0.036159515	-0.22818112	0.3727212	0.013741493	0.148983
-0.46944094	0.01910925	7.67E-04	-0.008460999	-0.10657692	-0.56420326	0.107708218	0.041625977	-0.12468195	-0.3304701
-0.3682909	-0.62831475	0	-0.6278076	-0.7686629	-0.59853125	0.146501778	0.14430189	-0.043292522	-0.40700817
0.38485718	-0.098833322	0.5564017	0.1523242	0.9344659	0.19445515	-0.5132525	-0.24425745	-0.27379465	-0.01337719
0.66406965	-0.022975683	-0.03004837	-0.36857128	0.004873753	0.19591618	0.131152393	0.60059595	0.24889946	-0.11226034
0.037670135	0.191740035	-0.07448292	0.3746524	0.21037388	-0.32203817	-0.003036738	-0.070634365	0	-0.1767683
-0.21730614	0.395855185	0.19253778	0.22173834	0.38181925	0.41862154	0.103242875	0.045284748	-0.14857388	-0.094429016
-0.69105387	0.105309724	-0.21652365	0.040118694	0.16085386	0.04869747	-0.40704393	-0.061202526	0.34720516	0.03936386
-0.82248783	-0.55685615	-0.18739986	-0.5989456	-0.34729004	-0.33070993	0.045193673	0.17676783	0.060942173	0.17367983
-0.19595051	-0.153024675	-0.06901169	-0.017675877	-0.3264284	0.14031315	-0.166260715	-0.16843557	-0.46830082	0.36550808
-0.33927298	-0.64219594	0.11557579	-0.19620419	0.29303408	0.06983614	-0.027050496	0.024101257	-0.67845535	-0.05788517
-0.02912569	0.27483821	-0.021692753	-0.10096121	-0.4397025	1.2495351	-0.417950155	-0.003420353	-0.057011127	0.47562265
-0.19675922	-0.63230395	0.08127737	-0.13377523	-0.17829466	-0.27166653	0.03442359	-0.21533775	-0.094451904	0.36677694
0.32128477	-0.14572692	-0.14235401	0	-0.13799763	0.15201235	0.050822737	-0.029719353	0.010537148	-0.1651249
0.25831938	-0.504346375	0.18396091	-0.11785126	-0.07998848	0.11446953	0.205190896	-0.05803013	0.22096062	0.020113468
-0.022135258	0.500559095	0.09017849	0.5151267	-0.03318739	0.050112247	-0.339923385	-0.18077707	-0.24629116	0.3258047
-0.6232586	-0.26154757	-0.34532356	-0.70638657	-0.45900583	-0.14265442	0.118913412	-0.18164253	-0.4966755	-0.32233334
0.39714384	-0.31883335	0.30442762	0.59134436	0.2956643	-0.120409966	-0.432117225	-0.32594395	-0.38781404	-0.10076332
0.060273647	0.125650645	0.40631104	0.46233606	0.41270494	0.026992321	-0.045897245	0.016855717	0.17530012	0.7246394
-0.060738087	0.64891983	0.29883575	0.19805098	0.302279	0.5057373	-0.348073475	-0.6234021	0.060082912	0.19301987
-0.06963158	1.63E-04	-0.012326241	-0.73921776	-0.9329872	-0.56194687	0.01038194	0.07049942	0.053067207	-0.42723513
0.44997168	0.41697526	-0.10211086	0.9702468	0.14149284	-0.49609566	0.037017346	0.20521164	0.5140214	-0.40474653
-0.5287204	-0.08189273	-0.29918432	-0.004081726	0.25379705	0.23009777	0.032368898	0.48565626	-0.029446602	0.37946415
0.07228565	-1.16153837	-0.24600935	-0.22413874	0.09022045	-1.0779982	0.198007105	0.20580053	-0.15449238	0.12331915
0.09564924	0.445246935	0.15548038	-0.03659153	0.050374508	-0.41223335	0.212353475	0.6320119	-0.10693741	0.40418053
-0.37048578	-0.325905085	-0.3282256	-0.24977589	-0.24041367	0.010185242	0.070016385	0.19003677	0.28242207	0.090013504
0.003931522	0.059365033	0.1405983	0.051721096	-0.40797234	0.23233032	0.232794525	-0.1484313	-0.63379	0.002671242
0.2107377	-0.500773435	-0.072095394	-0.007036686	-0.2059989	-2.38E-04	0.103838919	-0.04998684	0.2892213	-0.30227804
-0.05679226	0.17941499	0.19298649	0.045464993	0.32358217	0.8225179	-0.182904242	0.73452234	0.57027674	0
-0.27673626	-0.116727115	-0.023633957	0.19496107	0.21416569	-0.52869606	-0.166720395	-0.49951315	0.020750046	-0.16892529
0.644763	-6.32E-04	0.27799702	0.41107702	0.15557766	0.27241325	-0.11001301	0.20237398	-0.42131996	-0.22574472
-0.034889698	-0.51566888	-0.2772293	-0.324193	-0.2414012	-0.14229155	0.217404125	0	-0.13350391	-0.2763586
0.31388664	0.87745762	0.34188128	0.37700033	0.61360407	0.24631405	0.2051747	-0.04563999	-0.11170673	0.13754845
0.12239599	-0.339907405	-0.055814743	-0.02331686	-0.08883095	-0.10094738	0.118267298	-0.40239525	-0.042208195	0.18185902
-0.7111211	-0.51907135	0.020419598	-0.5442276	-0.4155693	0.2811041	-0.23050356	-0.5295563	0.24383926	0.17668104
0.47678185	0.732291695	-0.15279484	0.15903616	0.17907333	0.3347473	0.236554385	0.009568691	0.85460377	-0.3257103
-0.031362057	0.66872835	0.08534241	-0.06794214	-0.060721397	0	0.134969232	0.001429081	-0.4139347	0.2414813
-0.24220991	-0.155977965	-0.25085735	-0.24057055	0.32211542	0.1743064	0.205441473	0.02515173	0.17065811	-0.1592865
0	0.43377066	0.020970345	0.067768574	0.2731824	-0.13962126	-0.058264015	0.31383657	0.465178	0.14752436
0.20880032	-0.099657773	-0.07233477	0.13607359	0.52149725	-0.12291527	-0.056630615	-0.2808199	-0.9353156	0.5183406
-0.13241625	-0.454011665	0.035981655	0.90549994	-0.1747818	-0.19190168	-0.082690476	-0.09192324	-0.2730689	-0.033883095
-0.15535164	-1.01060915	0.14674854	-0.06909037	-0.43400192	-0.31342602	0.259868145	0.24006796	-0.13631964	0.015609264

NTHL1	*NUDT1*	*OGG1*	*PALB2*	*PARP1*	*PARP2*	*PARP3*	*PARP4*	*PCNA*	*PER1*
0.3718791	0.5210085	-0.054341316	0.2651863	-0.47013998	0.07853556	0.5921922	0.05233717	-0.7798548	-0.134344575
-0.52266645	-0.6922703	-0.40417862	-0.06571865	-0.2369976	0.036483288	-0.4112649	0.81289816	0.22816896	-0.124458075
0.038287163	-0.15017796	0.26906776	-0.1671629	-0.14240074	-0.09527016	0.8199315	0.8476701	0.38624668	-0.51429963
-0.61263037	-0.06766033	0.1326828	0.2985134	0.002915382	0.55314827	-0.031361103	0.4273553	-0.76687956	-0.526212695
-0.00629282	0.19640732	0.45777512	0.5403533	0.15546703	0.75799847	-0.06768656	-0.27168274	-0.5025492	-0.27650785
0.23718786	-5.77E-05	-0.072237015	-0.08955526	0.09864807	-0.2712121	-0.18765545	0.7558913	1.2225423	-0.43287014
-0.00379324	0.01673317	-0.13370323	0.002291203	-0.5492773	-0.489573	-0.044275284	0.8457713	-0.8577609	-0.284895655
0.12285185	0.15913296	-0.16278172	0	0.004110336	0.19976854	-0.06753254	0.46862555	0.33439875	0.22986746
0.42320395	0.17130184	0.095822334	0.14711475	0.22956657	0.45511866	-0.005277157	0.3970952	0.52283	0.005859375
0.54789686	-0.1538763	0.07972193	0.29039478	-0.36639977	-0.047950745	0.18621111	0.9230094	1.1886744	-0.417818075
0.005755901	0.3466854	0.003082752	0.11496115	0.18282032	0.7914772	-0.044600964	0.20299625	0.06291914	8.70E-04
-0.16125917	-0.02320242	-0.25838804	-0.015946865	0.06729126	-0.026577473	0.049074173	1.0246177	0.30540466	0.08257651
0.06905842	-0.08210945	-0.011180878	0.13673592	0.3239088	0.19556665	-0.05447626	0.20037031	1.063139	0.883290525
-0.25733232	-0.075080395	-0.23032713	-0.09302187	0.2263403	0.17184496	0.24741125	1.1350818	0.9845443	-0.18956089
-0.08864641	-0.08105707	-0.08781338	-0.032935143	0.2096138	0.1454134	0.270185	-0.13652849	-0.33126688	0.38235116
-0.07400894	-0.14862967	-0.066410065	-0.12329054	-0.19363022	-0.61490154	-0.11216354	0	-0.3432746	0.287624365
0.3814597	-0.21447325	0.17360497	-0.017609596	0.13535023	0.119731426	0.054162502	-0.16169882	-0.12431526	-0.3833518
-0.14361334	-0.13453722	-0.09466982	-0.104560375	-0.41767263	0.081516266	0.20516443	1.1281505	-0.31853008	0.036957264
0.2157321	0.55044174	0.025304317	0.21530485	0.8854084	-0.052234173	-0.3857994	0.04331827	-0.80195475	0.22937488
-0.35378408	0.00903368	-0.27458382	-0.4117546	-0.15300083	-0.47034597	0	-0.42897987	0.07013273	0.624367225
0.32704258	-0.014360428	-9.22E-04	0.001722336	1.0318413	-0.11416912	-0.030689716	0.31020117	-0.0890069	0.31062913
0.08854389	0.35266113	-0.045625687	0.011141777	-0.093286514	-0.42791176	-0.079843044	0.035289764	0.9692106	0.37635422
-0.1318407	-0.3113432	0.11695862	-0.064385414	-0.15610695	-0.36394787	-0.16131973	-0.047039032	-0.69381523	1.2601061
-0.34934282	0.058366776	-0.026851654	-0.18473053	-0.34741974	-0.21499157	0.4218793	0.5100732	-0.6545291	0.03515601
-0.08282852	-0.19396019	-0.1721344	0.035727024	0.040246964	0.400558	0.3110242	-0.16122866	0.7173505	-0.26903272
0.009218693	-0.013562202	0.21192884	0.06771517	-0.22841358	-0.15983391	0.1769185	-0.08156109	-0.61302185	0.89773488
0.46070623	-0.017817974	0.039655685	0.14121914	0.15129566	0.6189008	0.008198261	0.080062866	-0.73825216	-0.50721454
0.097305775	0.15281677	-0.08810806	-0.29186344	0.2496891	0.018537045	0.43379164	-0.08062315	0.08443689	-0.089729308
-0.3777771	-0.049318314	0.14488983	-0.13229227	-0.12093735	0.36006117	-0.14525652	0.04331827	0.6194072	1.9865892
-0.025360584	-0.017580032	0.11217499	-0.17015457	0	-0.59764767	0.26415205	-0.23165512	-0.8957629	0.53433348
-0.2523198	0.0801487	-0.06327343	0.051712513	0.7241783	0.086817265	-0.09801483	0.5541682	0.15596342	-0.237605325
0.2376442	0.23773098	0.07568836	0.095282555	0.3006668	-0.33149004	0.1159091	0.11097765	0.4025941	-0.22749019
-0.41453886	-0.00315094	0.6272011	0.045341015	0.17584896	0.21674919	-0.19779253	-0.120286465	1.6977258	-0.46906757
0	0.025536537	-0.06621742	-0.05296707	0.057501793	0.39285994	-0.17308235	0.64890814	0.9535303	-0.083616972
0.15643454	-0.044870377	0.025110245	0.020925522	0.21736336	-0.35980034	0.04830122	-0.3527956	-0.20018053	-0.463526485
-0.296659	0.026290894	0.071796894	0.13018608	0.08265877	-0.012833118	-0.33529806	-0.60434675	-0.579865	-0.2818985
-0.001863003	0.17869568	0.16701889	0.23649406	-0.4277053	-0.4876957	0.22157335	-0.11185932	-1.1635284	-0.028177737
0.14863634	0.039250374	0.0432992	-0.17527533	0.003378868	-0.420815	0.46347857	-0.11306524	0.72408104	-0.49813963
0.05953741	0.015179634	0.29493093	0.03828764	-0.070218086	0.07182932	0.18171835	-0.78912735	0.012925148	-0.104958295
0.24547005	-0.00227356	0.3808298	-0.05067253	0.005835533	-0.24316454	-0.25308466	-0.20921421	-0.6713915	0.074486733
0.020038128	0.21985054	0.1773591	0.04450369	-0.006630898	-0.17461348	0.032920837	-0.40081358	-0.82386255	-0.29180956
-0.20545387	0.5000782	0.7206764	-0.002036572	0.69161224	0.055281162	-0.34456253	-1.9743896	0.28306532	-0.113321067
-0.4209423	-0.27115297	-0.11887455	-0.52544546	-0.13108063	-0.1551342	-0.18887758	-0.55045366	-0.1642003	0.8681383
-0.16142082	-0.10309601	-0.26103687	-0.113494396	-0.026485443	0.1998806	0.17653704	-0.014426708	0	0.007574082
0.029271126	0.31002235	0.07257271	0.027112484	-0.17199135	-0.07487202	0.045314312	0.23541737	0.35240602	0.584211585
-0.6312685	-0.37785578	-0.07530594	-0.06798649	0.5311432	0.56979513	-0.43551064	-0.03114891	1.3354411	0.107334607
0.010185242	0.13796616	0.16885853	-0.07120943	-0.55683756	-0.23050404	-0.19136763	-0.26006794	-0.7407012	0.201747177
0.28366613	0.07691574	-0.09025288	0.17131138	-0.33405685	-0.19873667	0.3138318	-1.4563222	-0.5400224	-0.348045595
0.28613138	0.036720276	-0.053798676	-0.03901148	-0.08776474	0.5705404	0.30232286	-0.0486207	1.3106256	0.66602111
-0.08308554	-0.19118023	0.06729412	-0.40984488	-0.57091284	0.13469172	-0.03442955	-0.022638798	-0.76440096	2.18031075
-0.05698681	0	0.01011467	0.08690214	-0.14321709	-0.001256466	-0.036456585	-0.37203264	-0.25018215	0.12217474
0.24445438	0.3790512	0.065797806	0.12278843	0.29719734	-0.001702309	0.066746235	0.15946913	0.14539528	-0.346759543
-0.18960905	-0.26054335	0.4161291	-0.46307087	-0.046812057	0.009675026	-0.15710306	0.2416935	-0.4300866	0.746655925
-0.14635372	0.007288456	0.04931307	0.11943722	-0.30069065	-0.27560043	0.11395025	0.00783968	0.4842534	0.47267913
0.15051222	0.15442276	-0.039390564	-0.05334139	-0.45958233	-0.01832676	0.3150668	-0.18177795	-0.8030448	0.26465821

PIF1	*PMS1*	*PMS2*	*PMS2P3*	*PMS2P4*	*PNKP*	*POLB*	*POLD1*	*POLD3*	*POLD4*
0.6353297	0.07359171	-0.011398315	-0.049031259	-0.039714335	0.02355957	-0.11791897	0.4218092	0.52144433	0.21089268
-0.41701126	0.24213219	0.3965063	0.418972255	0.13409042	0.437397	-0.075167656	0.0931139	-0.608088	-0.96879864
-0.38322783	0.22453403	0.48273754	0.45189476	-0.376176835	0.61028385	0.33045197	0.12751245	0.07191539	0.515296
-0.13713503	-0.26546097	0.38915062	0.47331047	-0.26703048	0.39778423	0.053239346	-0.32851744	0.012346983	-0.93455505
0.12068844	-0.11985302	0.69863605	0.55809545	0.338536985	0.6024103	0.9700823	0.5331831	-0.036797046	-0.14235878
0.4843259	0.5575681	-0.06289673	0.093617915	-0.405238385	0.0357399	-0.04035759	0.4082117	0.106547594	-0.15701675
-0.02131176	-0.031115532	0.17276955	-0.067139147	-7.72E-05	-0.54274464	-0.17370605	-0.1561122	-0.024894953	0.3377447
0.2506914	-0.37392282	-0.33466244	-0.407444955	-0.2683239	0.24260616	-0.09681511	0.041871548	-0.048059225	0.44344616
0.010955334	-0.2438016	-0.39693165	-0.44049597	0.285343885	-0.14068985	-0.7377529	0.13187075	0.36276342	0.3304224
-0.10958958	-0.001055241	0.19798088	0.401999475	0.387178435	-0.34460354	-0.33689117	-0.017522335	0.027344704	-0.17874146
-0.0458169	-0.06807804	0.19876957	0.340328215	0.307097196	0.14476204	-0.15475988	0.36126804	-0.081374645	0.016848564
-0.0643549	0.13571358	-0.055182934	0.34988451	-0.235549448	-0.30134535	-0.04991722	-0.5075526	0.00151515	0.38911343
0.26962376	0.1344161	0.105820656	0	-0.421515705	-0.014678001	0.08612394	0.1609497	-0.243242975	-0.26137257
-0.04517269	0	0.104644775	0.27473878	0.106348038	0.13742542	-0.27039862	-0.18650484	-0.227343325	0.85242844
0.24693584	-0.03550148	0.32020092	0.39473581	-0.02302909	-0.078538895	0.00417614	0.11313629	0.18206668	-0.26824856
0.14584684	-0.09594679	-0.17326832	-0.103957177	0.02429152	-0.115039825	-0.39124966	-0.20314884	-0.00518298	-0.25020695
-0.07875538	0.40648746	0.25598812	0.09572172	-0.447469	0.24301052	-0.6601553	0.27518606	0.02225542	0.071183205
0.05123949	0.16705751	-0.13193893	-0.048842908	0.296021925	0.056934357	-0.20412302	-0.028515339	-0.122492313	-0.049533844
-0.15600348	-0.20244789	0	-0.2405777	0.205154655	0.22404003	-0.037026405	0.04487419	-0.18880582	0.033913612
-0.21163368	-0.38868427	-0.24346161	-0.214244365	-0.080070732	-0.06247616	-0.08273888	-0.13682127	-0.009855748	0.07717514
0	0.1083436	-0.3659191	-0.32859993	-0.240483048	-0.26717377	0.042895317	-0.06609297	0.217312813	-0.29331875
-0.038743973	0.035685062	-0.44289112	-0.61349438	-0.221907141	-0.10493088	-0.23655319	0.11726332	-0.051790237	0.26894093
-0.5008521	-0.083996296	-0.06086731	-0.150681018	0.05411601	-0.23128366	-0.021382332	-0.55993843	-0.243641375	-0.12697887
-0.12725782	-0.26681757	0.040148735	-0.145784855	0.246541497	-0.13102674	0.078332424	-0.68643856	-0.41793156	0
-0.060450554	0.11739969	-0.16383648	0.38485241	-0.245395897	-0.31645203	0.7612848	-0.23826265	-0.14821268	0.13433743
-0.44303703	-0.2526927	-0.33376265	-0.39015579	-0.238171575	0.21607971	-0.027210712	0.45958328	0.16313385	0.23142624
-0.011590481	0.19802713	0.121058464	0.286665915	0.0491302	-0.13156128	0.03059721	-0.098994255	0.06061387	0.063949585
0.37875366	0.16009283	-0.04756832	0.003119946	-0.27480626	0.21426487	-0.0841589	0.18387938	0.154516697	0.007175446
-0.26702738	0	0.6984062	0.315985682	0.208433635	1.1592312	0.073869705	0.56408596	0.005067112	-0.040471077
-0.35196257	0.045681	0.011563301	-0.46713496	-0.087235213	-0.059597015	0.06105709	-0.48022127	-0.228687045	-0.2090149
-0.3387413	0.5206647	0.08635712	0.006206035	-0.255796192	0.11135578	-0.15590572	0.060934544	0.291742325	0.7855854
0.33017397	-0.092372894	0.40395546	0.45422697	0.067054512	0.3312645	0.098204136	0.4920559	-0.059678555	0.22226334
-0.15609598	0.12141657	-0.26338482	-0.2314291	-0.065914633	1.19242	1.2014456	0.83065414	0.469812625	-0.13576889
0.132061	-0.22131872	-0.20413113	-0.22789192	-0.25297427	-0.56241846	0.0626111	-0.16409922	0.007129908	0.14512348
0.088329315	0.23177528	0.1792345	0.103963135	0.21288133	-0.2383995	-0.0916338	-0.41628265	0.092556001	-0.42403793
0.250813	0.1297121	-0.43480492	-1.04808685	-0.159657003	0.1889782	0.24488306	0.08542442	0.14793372	-0.44691563
0.043437004	-0.25522804	-0.010902405	-0.26762867	0.270668505	-0.16442585	-0.4237404	-0.0604887	-0.074133165	-0.0735836
-0.12820578	0.15607691	0.40884686	0.577541585	0.427263485	-0.39595842	0.16625977	0	-0.06255007	-0.28950596
0.05587721	0.25735378	-0.5859432	-0.61845708	0.13585329	0.09563446	0.07436037	0.078282356	-0.032096865	0.115421295
0.4223466	-0.10087156	0.2556162	0.138977053	0.085820438	0.054462433	0	-0.05876875	-0.238331315	-0.34303665
0.28158617	0.014508247	0.5347109	0.551439765	0.028782606	0.23596859	-0.0882535	0.27229738	0.100346085	0.0310812
0.15693378	-0.29010248	0.5545044	0.049368381	0.42046667	1.3078203	0.66467476	1.4010334	0.1362741	-0.54147434
0.034588814	-0.18553543	0.13077736	0.139127255	0.391758917	-0.070417404	0.83554745	-0.2727604	0.742402335	-0.25510025
-0.14087391	-0.19343472	0.32036114	0.24716473	-0.088779688	-0.10688019	0.17171621	-0.12900591	0.19790531	0.056142807
0.217103	0	0.07469559	0.112700465	-0.07158613	0.7098856	0.20432758	0.58317757	-0.125585558	-0.017679214
0.35768604	-0.18654633	0.29927254	0.334274295	-0.038089037	0.028832436	0.50069857	-0.1428833	0.49744346	-0.5595617
-0.2925415	0.015770912	-0.2887268	-0.641631135	0.434981585	-0.010811806	-0.20440817	-0.073206425	-0.133808135	0.020763397
0.05251932	-0.07238102	-0.3095398	-0.95326422	-0.078515768	-0.51286125	0.06390047	-0.4222865	0.229857446	0.2595625
0.48911	0.14948082	-0.008564949	0.009771348	-0.22666192	0.20012474	0.1636219	0.6841059	0.120097397	-0.18602371
-0.36862373	-0.00939846	-0.112584114	-0.157203195	0.092292075	-0.1435976	-0.18288898	-0.5030818	-0.266124018	-0.28011608
0.07819271	-0.044589996	-0.6347399	-0.88488245	-0.083610535	0	0.14463234	-0.010348797	-0.025722745	0.08267021
0.31064034	-0.112728596	-0.28826714	-0.207280155	0.79242302	0.23638248	-0.5603471	0.08528757	0.247131348	0.1061182
-0.4835124	0.22060347	0.53509235	0.64207172	-0.035563715	-0.035276413	0.32328653	-0.24706697	-0.29439068	-0.33836746
0.04023981	-0.42487907	-0.3051281	-0.438493255	-0.115043168	-0.32888508	-0.2989397	0.16683483	-0.042607785	0.18661976
-0.14208174	-0.24107361	-0.1350317	-0.249416825	0.34971952	-0.16276073	0.09502792	-0.21348238	-0.079603675	-0.059295654

POLE	*POLE2*	*POLE3*	*POLG*	*POLH*	*POLI*	*POLK*	*POLL*	*POLM*	*POLN*
-0.033039093	0.22602272	-0.60384226	0.2168808	0.046462058	-1.0414157	-0.8215327	0.27637768	0.14777565	0.608475685
-0.15316105	-0.10949564	0.06556988	0.15864658	0.046027182	0.1791606	0.8121128	-0.4999733	0.28421402	-0.436574225
0.13711452	0.64842415	0.34371996	-0.06353474	0.41055751	0.12459564	0.068175316	0.22422504	0.2770443	-0.132026432
-0.18350506	0.2301507	-0.36083508	-0.063827515	-0.11328268	1.1976562	0.15851307	-0.37277794	0.095666885	-0.241506815
0.014769554	0.3623128	0.12528515	-0.17350674	0.1130464	0.30608273	-0.16146326	-0.26538658	0.63569355	0.456079975
0.006911278	0.4139843	1.3356013	-0.07203007	0.32332897	-0.003495693	0.012275219	-0.20684719	-0.095666885	-0.16229534
-0.45594501	-0.5901308	-0.31415272	-0.045277596	0.23942042	0.27063513	-0.47169447	-0.0782032	0.4354248	0.043881893
0.200593	0.44909525	-0.6194992	0.037843704	-0.017360449	-0.45134878	-0.2846961	0.11108589	-0.09876156	0.114607095
0.12422657	0	-0.8878279	0.04239559	0.043853045	0.14478731	-0.08036661	-0.040805817	0.23741913	0.287869693
0.05878067	0.4414239	0.23652887	-0.24462605	-0.13921213	0.50945854	0.54617214	-0.041151047	-0.008495331	0.124668838
0.13898468	0.09774208	0.95207596	0	0.091073515	0.42744398	0.8733988	-0.09283161	-0.13480759	-0.144428255
0.18976116	0.104607105	0.7879982	-0.17028427	0.075698375	-0.056061745	0.69966507	-0.29576874	0.13591957	-0.25132585
-0.06348419	0.8048668	-0.5959635	0.20906115	-0.331831455	0.69817257	0.17089653	-0.22711468	-0.02607441	-0.087328672
-0.026910782	0.3934536	-0.33073282	-0.2624035	-0.07052231	-0.16302443	0.9219699	-0.05185032	1.2295122	-0.28526449
-0.012923241	0.5281081	0.12245369	0.090405464	0.28536845	0.05099821	-0.046390057	0.04800129	-0.17256737	0.09082675
0.05751896	-1.5053763	-0.027495384	-0.11863136	-0.021549225	-0.45297718	-0.29731417	-0.26716423	0.08542156	0.216860293
-0.029073715	-0.4934616	0.8112397	-0.07141209	-0.272381785	-0.36628294	0.39688206	-0.101246834	-0.14740944	-0.23113084
-0.19961834	0.042555332	-0.17870283	0.06284046	-0.050653934	0.34715796	0.15369463	-0.05313778	0	-0.043954849
-0.18193054	-0.30340624	-0.5066128	-0.21906853	9.87E-04	0.28040648	-0.2547555	0.20916748	0.33658886	0.37190628
-0.23493862	-0.42159367	0.04266548	0.30632973	0.113378765	-0.28493834	-0.39043188	0.083667755	-0.485631	0.031437874
0.08401871	-0.031121254	0.04359579	-0.29167366	-0.36395216	-0.5998516	0.13039064	-0.13885212	0.001708984	-0.135422942
0.14622784	0.1299777	-0.73582935	0.12678146	-0.27054715	0.060117245	-0.43990326	0.00685215	-0.011526108	0.01495409
-0.26449013	-0.5403733	0.054858685	-0.25696945	-0.264223095	0.5284457	0.3130765	0.15449905	-0.06894112	-0.123931175
-0.44022322	-0.4012556	-0.016250134	-0.029273033	-0.020919085	0.17137861	0.23022223	-0.12961006	-0.07169914	-0.03327155
0.0845747	0.022202969	0.64581823	0.020693302	0.030401706	0.38244343	0.019411564	-0.1386137	-0.14772081	-0.221357585
-0.03746128	-0.766932	-0.527277	0.13065147	-0.059916735	0.061264038	-0.12461519	0.003551483	0.059505463	0.060475112
-0.1019907	-0.33409405	-0.027495384	-4.35E-04	-0.00998497	0.6160269	0.359087	0.08591175	0.15316486	0.090190888
-0.21649265	-0.030647755	-0.6345043	0.068707466	0.035481453	-0.06407595	-0.1838088	-0.11514759	-0.41884756	-0.034292935
0.12275505	0.9783635	-0.027495384	-0.16407585	0.274104835	-0.54284334	0.8574543	-0.18490887	-0.030891418	-0.25155592
-0.11136246	-0.83087206	-0.42461395	0	-0.230229615	0.07081032	0.18789482	-0.006407738	0.31066895	0.01973343
-0.2873602	0.3480463	0.32932377	0.010712624	0.038977625	-1.37114	0.13811207	-0.10354519	0.8523674	0.118280409
0	-0.39163876	0.83290195	0.027551651	-0.034635305	-0.14264822	0.2420125	0.060147285	-0.17610836	-0.287471535
0.50654316	1.101748	-0.8179107	-2.37E-04	1.1913893	0	-0.4835987	0.11024284	-0.21253729	0.084577323
0.29670143	0.29553938	0.22015762	-0.036597252	0.20835209	1.1236362	-0.40158367	0.08207798	0.29855156	-0.11081147
-0.002698898	-0.6550846	0.02519846	-0.14768791	-0.02856636	0.19480324	-0.34412622	0.1391716	-0.123606205	0.045133112
0.055327415	0.10517454	0.42663383	0.04326725	0.275606155	-0.91083574	-0.17583275	0.08066845	-0.6135874	0.037709237
-0.043322563	-0.596375	-0.7416749	0.06229973	-0.11268425	-0.30509806	-0.27109003	0.38215542	0.09275627	0.32097459
0.3178873	-0.030647755	0.119711876	0.14847088	0.4400809	0.8316846	-5.03E-04	0.18196392	0.11139488	0.099087715
-0.1128273	0.07879019	-0.4029956	-0.032811165	-0.22474027	-0.34480524	-0.37569666	0.29759598	-0.12861729	0.20470357
-0.30373573	-0.5603428	0.4213519	-0.23398876	0.038757802	-0.09409428	0.49161625	-0.2276516	0.2166071	-0.17585206
0.28514004	-0.038650036	0.37375402	0.02945137	-0.50294305	-0.8422208	-0.80136967	0.27889824	0.0673933	0.168501615
0.069000244	0.7595806	0.047422886	-0.19468975	-0.02096653	0.5537119	-0.20841551	-0.25164318	-0.10655022	-0.2198143
0.08571243	-0.26335955	0.6382508	-0.05460739	0.055039643	-0.025583744	-0.11910725	-0.049797058	0.107647896	-0.141534567
0.021866798	0.21820354	0.71421766	0.15696716	-0.09835911	-0.506166	-0.20961332	0.021867752	0.13111973	-0.222165825
0.24152279	-0.35445452	-0.5696373	-0.047938347	-0.04403472	-0.032435894	-0.23100138	0.20454216	0.17523098	0.169066195
0.18123627	1.9356894	0.101878166	0.010327339	0.46661425	1.000895	0	-0.17908382	-0.51026726	-0.158817767
-0.33083248	-0.36961842	-0.84013844	-0.013055325	-0.268419745	-0.4825678	0	0.05442238	-0.07023239	0.2445066
-0.27653885	-0.79809475	0	0.26910973	0.002876997	-0.4122424	0.04548168	0.22823524	-0.13460255	0.11884308
0.3070221	1.0442657	0.8749995	0.2731161	0.022445917	-0.115983486	-0.27991867	-0.1325779	-0.050263405	-0.089203356
-0.20729256	-0.38985586	-0.59087276	-0.076360226	-0.4115622	0.9370985	0.96400166	0	-0.061361313	-0.068678141
0.104473114	-0.31366682	-0.9025636	0.3816824	-0.0716393	0.17649794	0.010061741	0.1691742	0.003717423	0.37631321
0.08120632	0.548357	-0.4182272	-8.15E-04	0.3250885	-0.31520128	0.11917353	0.15289211	0.022007942	0.05207658
-0.2055502	-0.4795332	-0.85837793	0.028485775	-0.061117172	0.094583035	0.64572716	0.016435623	0.8034706	-0.250390525
-0.11040783	0.45655584	0.29102898	-0.066802025	-0.065956593	-0.16589403	-0.331295	-0.008934021	-0.060596466	-0.094688653
0.22543526	-0.67057514	-0.24869204	0.29978466	-0.078444006	-0.8439622	-0.8130312	0.14947796	-0.31617022	0.23451209

POLQ	*PRKDC*	*PRPF19*	*RAD1*	*RAD17*	*RAD18*	*RAD23A*	*RAD23B*	*RAD50*	*RAD51*
-0.052310944	-0.30690765	0.058376312	-0.10552883	-0.59116888	0.172687293	-0.453508855	-0.5873389	-0.12763524	0.45695734
0.22639608	0.40075016	-0.27548027	0.4071207	1.0444999	-0.56766509	0.80321217	0	0.6082747	-0.4835534
-0.07981539	0.074295044	0.161232	0.02402258	0.328128335	-0.104557275	0.421984195	0.38495302	0.496497395	0.25604916
-0.2404213	0.2033453	-0.08490944	0.07126236	0.59221649	-0.24944544	-0.28073406	-0.006534576	0.093539477	-0.412961
-0.15994406	0.20839596	0.10231018	0.10879755	0.183609725	0.143701076	0.194773675	0.22423792	0.48998928	0.83188343
0.9371824	0.50486755	-0.074661255	1.0013857	0.052912714	0.136554957	-0.080854417	0.19784641	-0.14246011	0.72033167
-0.3545766	-0.47267914	0.021606445	-0.017529488	-0.074536085	-0.18113184	0.348291395	0.051353455	-0.24683762	-0.14774895
0.26222944	-0.18695545	-0.18246269	0	-0.264677045	-0.24048734	-0.075059413	-0.66045	-1.275951125	0.15392256
-0.40734768	0	0.1669445	-0.27328587	0.23070812	-0.038492203	0.550637725	-0.002402306	-0.006744625	0.45824528
0.7628565	-0.3023348	0.025878906	0.019087315	0.280192135	0.113445758	0.129115583	-0.08902502	0.085361005	0.19955349
0.8531666	0.4167776	-0.021900177	-0.004575253	0.4608531	0.62180782	0.00481224	0.21208954	0.06366658	0.85418177
-0.12427473	-0.18239403	-0.4318018	0.035016537	0.3655684	-0.161005255	-0.75439885	0.003692627	0.09414363	-0.095261574
0.15301561	0.4329729	-0.34203196	-0.035120487	-0.095369578	-0.12921858	-0.524855125	0.03231144	0.387336505	0.044410706
0.005922794	0.15315676	0.006959915	-0.28446627	0.384277825	-0.189382075	0.607941615	-0.32322216	0.19426942	0.32009888
0.017129898	-0.20266056	-0.043434143	0.21461058	-0.677878375	-0.058941366	-0.39388371	0	-0.962162	-0.013844967
-0.15207338	-0.45237637	-0.40232897	-0.026996136	-0.31712056	-0.134463786	-0.44065381	0.11635971	-0.255131485	-0.16229391
0.061316967	-0.032208443	-0.020925522	-0.16097403	0.424722665	0.127295735	0.439349175	0.5878649	0.631265865	0.00143671
0.37855768	0.016252995	-0.1224823	-0.012366772	0.445452215	-0.045112849	-0.22132349	-0.37660503	0.36500311	-0.04101515
-0.21039152	-0.19462776	-0.16201401	-0.41687965	-0.45331145	0.040093423	-0.005108355	-0.39334297	-0.590417385	-0.124827385
-0.4116621	0.056128502	-0.17425728	-0.30223274	-0.3575778	-0.071266413	0.003890038	0.29007292	-0.345566035	-0.274817
0.6919222	0.1991024	0.030679703	-0.23006487	0.097888468	0.027180672	0.5545144	-0.15285158	0.069903376	-0.00887537
0.0976491	-0.33580208	-0.120140076	-0.12817907	-0.31128788	-0.37460064	-0.61121368	-0.45057106	-0.349355925	-0.10192633
-0.42181253	0.09942579	0.091199875	0.07073498	0.25918555	-0.293529035	0.420408725	0.007922173	0.44508052	-0.34188557
-0.94974613	-0.34212494	-0.16710472	-0.034353256	-0.022428751	-0.4873402	-0.030930045	0.27611494	-0.003667593	-0.6402645
0.06998587	0.46451283	0.037704468	9.22E-04	0.20982599	0.039493801	0.055853842	0.47465706	0.443062075	0.48012686
-0.9477477	-0.34454775	-0.11894798	-0.48731232	-0.101989746	-0.154189825	-0.2673378	-0.41880417	-0.19147086	-0.06690931
-0.14267302	0.110471725	0.022172928	-0.11773682	0.42001295	-0.180096625	-0.9320755	-0.11613846	0.122458935	-0.4372568
0.07263231	0.25847816	-0.16982841	-0.15078783	-0.18050742	0.037678481	-0.340380195	-0.53503275	-0.227071285	0.00143671
0.15020084	0.112863064	0.2834835	-0.13552284	0.68006182	-0.106042148	0.014202594	0.56621647	0.063257218	-0.282434
-0.09913397	0.018921852	-0.48488188	-0.35082293	0.08113241	0.046656608	-0.557301035	-0.16736317	-0.00415778	-0.012172222
0.29503107	-0.2056799	0.37711334	-0.2683077	-0.17533827	0.026485205	0.297816275	0.27462292	0.482311485	-0.14196396
-0.105100155	-0.05627823	0.21034431	-0.036429882	0.386411905	0.062948228	0.75195122	0.931911	0.092837335	0.07951164
0.32363033	0.13613844	0.5837736	0.70433474	-0.48778295	0.019320248	0.289256095	-0.24482489	-1.060928335	0.22507381
0.20734835	0.004699707	0.21369743	0.3130989	-0.019585133	0.008617162	0.315083985	0.0101614	-0.506026745	0.2949276
0.385715	0.24832916	-0.13292885	-0.09428024	-0.07972336	-0.11906195	0.36299419	0	-0.085395336	-0.006112576
0.5496979	0.44451714	0.22314262	0.13343477	-0.25648451	0.211643695	0.55359125	0.7155123	0.03764987	0.304358
-0.44121456	-0.99702835	-0.17091751	-0.8915467	-0.216965435	0.098682166	-0.44780875	-0.13127708	0.0501914	-0.31020355
-0.211977	-0.11111927	-0.21315765	0.44650364	-0.455834385	0.019439697	0.038229464	0.14326954	0.731397375	0.13910246
-0.18852139	-0.37287474	0.22177505	-0.22465467	-0.36548304	0.42554784	-0.44534397	-0.7206683	-0.75133278	0.08073282
-0.36464024	-0.16849852	0.35669708	0.06431055	0.171047925	-0.166770455	-0.462841515	0.2649994	0.21024442	-0.29995775
0.638505	-0.1079731	0.23986816	-0.04949808	-0.20451522	0.023034095	-0.34721326	0.19870329	0.091578245	-0.13789988
0.6742821	0.48429537	-0.006835938	0.70075226	0.87076427	0.80748557	0.210732935	0.4427805	0.393717525	0
-0.11782122	0.80200577	-0.056480408	0.17486286	0.048850062	-0.275257105	-0.28736019	0.35768604	-0.54145025	-0.63979673
0	0.002763748	0.19779396	0.05917263	-0.018834115	0.102320434	0.309972285	0.7136855	-0.57603049	0.6723008
0.84357214	0.20751143	-0.1836319	0.3299694	-0.111920595	0.188477755	-0.662788865	-0.47556877	-0.14741731	0.11575937
-0.12529469	0.40755653	0.28837013	0.8678613	0.68002082	0.106364966	0.27611494	-0.13700962	-0.710564125	-0.23162413
0.057700634	-0.4392271	0.11146259	0.073647976	-0.617456685	0.099486592	-0.040419105	-0.23604202	-0.317635775	-0.23017263
-0.3825388	-0.9793439	0.5559273	0.0865674	-0.36127114	-0.082782983	0.217375275	0.5567417	-0.031714915	0.38969135
0.8611679	0.6397748	-0.19547653	0.61681986	-0.43086219	0.097592115	0.264445782	0.23793507	0.74956917	0.07994366
-0.8659816	-0.40647173	0	0.001178265	0.533513535	-0.32070112	-0.42886972	-0.11321545	0.06772971	-0.5254216
0.047237873	0.11709595	-0.11795235	0.025735855	-0.0921762	-7.86E-04	-0.426558495	-0.4113617	-0.541599765	0.30840492
0.1661396	0.122400284	0.29884338	0.13244486	0.46866655	0.123090027	0.180942052	-0.017654896	0.37390017	0.6144686
-0.36913252	0.43438292	0.006595612	0.016394615	1.2660298	-0.032408953	0.65423107	-0.6151428	0.8683131	-0.53797674
-0.18573475	-0.035499573	0.2786255	-0.091483116	-0.3530147	0.058958292	-0.163487435	0.5375624	-0.230728147	0.00143671
-0.343472	-0.7124014	-0.2595272	-0.25378132	-0.48341514	0.003046036	-0.58149672	-0.72771835	-0.09425974	0.025208473

RAD51B	*RAD51C*	*RAD51D*	*RAD52*	*RAD54B*	*RAD54L*	*RAD9A*	*RBBP8*	*RDM1*	*RECQL*
0.05104375	0.164532185	0.537477	0.45214772	0.14362812	0.1580391	0.009592533	-0.19799662	0.3000431	-0.25138855
-0.05287838	-0.25775814	-0.40797997	-0.18411422	-0.42186928	-0.5958586	-0.21381044	0.07253218	-0.17173147	0.251851783
-0.435009475	0.370159634	0.10060167	0.255661725	0.103708744	-0.17554235	0.26117563	0.40417337	0	0.117423774
-0.08369851	0.416020395	-0.0724206	0.26126623	-0.21645308	0.062251568	0.004529953	-0.49144697	0.15477705	0.24566078
-0.109915973	0.223526237	0.04130602	0.033657789	0.056442738	0.05834818	-0.078707695	-0.5419431	0.27268648	0.49856806
-0.30357623	0.367793325	0.10652542	0.44280958	0.016313553	0.23844671	-0.21884918	0.93386555	0.0709157	0.36727739
-0.042489289	-0.174148795	-0.17891693	-0.132383825	-0.53132343	-0.14000416	0.16773272	0.012982845	0.02377081	0.072737215
-0.32638574	0.20529413	-0.036793232	-0.457929848	-0.29107332	0.30730152	0.026677608	-0.36943436	0.020265102	-0.18150282
-0.030382395	0.03138876	-0.07870102	0.197700975	0.37655067	0.09140015	0.9093418	-0.8288975	-0.11810732	-0.030587673
0.336613415	-0.16869235	0.12844563	-0.037882328	-0.18342781	0.38233566	0.48199797	1.1180086	-0.062042713	-0.178284645
-0.2447002	0.646665335	-0.1157608	-0.065286158	0.49139786	0.30139446	-0.25379705	0.4288087	0.08653355	0.199445725
-0.354228965	0.111992598	-0.16250849	-0.307605745	-0.41003275	0.007287502	-0.36251116	-0.24483728	-0.14184952	0.375291115
-0.41243148	0.032532455	-0.014464855	0.213791611	0.8354554	0	-0.36394835	-0.18926334	-0.23245573	0.54631829
-0.14570713	-0.165233375	-0.07220459	-0.30641913	0.1566143	-0.028749943	0	0.05015993	0.07967234	0.301663395
0.093301296	-0.207655437	0.04130602	0.142424825	0.61548376	-0.004878521	0.30066824	0.36426497	0.047148228	-0.02330303
0.133944035	0.16046858	-0.09761524	0.01765871	-0.73425245	-0.009213448	0.15359259	-0.82299614	-0.26285887	-0.250746965
-0.23203802	0.371735565	-0.2353735	-0.213553665	-0.44804573	-0.078471184	0.295671	1.0790434	-0.20701408	0.12486577
-0.219038727	0.286270145	-0.005255222	0.201259135	0.5406079	-0.097372055	0.4017396	-0.5550437	-0.10897303	-0.10258937
0.18570208	0.056806805	0.06861305	0.21428275	-0.24089766	0.06332064	0.3196764	-0.045307636	-0.06522322	-0.04611373
-0.14455509	0.33064318	-0.017302036	-0.120311975	-0.011046886	-0.066756725	0.09483242	-0.24626637	-0.13698626	0.271841295
0.216932535	0.001245975	-0.16418123	-0.06755185	-0.24026823	-0.058202744	-0.204638	-0.023023605	0.25693274	-0.012936115
0.58463312	-0.1063385	0.1259985	-0.308028935	-0.4271164	0.054241657	0.29992437	-0.7409339	0.11895561	-0.006154776
0.1818068	-0.088520287	0	-0.06925821	-0.8126297	-0.24567175	-0.009882927	-0.82813597	0.012331963	0.074520587
0.026831387	-0.31754565	-0.24955893	-0.265994785	-1.1830807	-0.3777871	-0.06962395	0.42437172	-0.49602604	0.24870419
-0.246677395	0.215434074	-0.06435585	-0.15811181	0.6551175	-0.14568996	-0.3346076	0.04698181	0.23669529	0.013119936
0.167769668	-0.11933112	0.23381758	-0.263120415	-0.6789751	0.00647974	-0.3218193	-0.1451807	-0.22614813	0.117492675
0.04337883	-0.10878992	0.09577227	0.35003399	0.23758554	-0.023637772	-0.23385191	-0.28310442	0.07686138	-0.130656958
-0.037705662	-0.07176137	-0.013612747	0.04873061	0.30944538	0.22993183	0.3159933	0.39284897	0.09704542	-0.01185298
-0.068350553	0.16810036	0.053165913	0.016055584	1.1961226	-0.17640162	0.26959705	0.34498358	-0.038033485	0.63624333
0.141168595	0.001653909	0.12661839	0.03014803	-0.74805737	-0.027265072	-0.22374678	-1.0717363	-0.09240532	-0.005575419
0.087684157	-0.30250334	0.2186408	-0.44831419	-0.14628696	0.08288956	-0.013323307	0.2690277	0.055937767	0.022567987
-0.30640197	-0.22504425	-0.051889896	-0.174864055	-0.069205284	-0.01545763	0.1316657	1.5819483	-0.1628213	0.10101843
-0.282692195	-0.258597135	0.5211215	-0.24811864	-0.07985449	0.54413795	0.1794734	0.50656986	-0.09533262	0.002367258
-0.022041083	0.25087714	-0.10831308	0.176875355	0.3550043	-0.06505823	0.11199093	0.8538828	0.17309618	-0.49547291
0.172791005	0.27710056	0.2941041	0.055072308	-0.4484315	0.42597628	-0.15149736	0.6113348	0.4967618	-0.191663025
0.103696585	-0.064188957	-0.13532114	-0.38237929	1.8864336	-0.07008505	-0.28802586	0.71691227	0.004750252	-0.06513262
0.100816014	-0.20218849	0.4404106	0.113617662	-0.65975046	-0.19218063	0.34279585	0.09186506	-0.184309	-0.133304357
0.124077085	0.069769141	-0.3062768	0.1578753	0	0.018292427	-0.044251442	0.512702	0.202075	0.2067771
-0.30848122	-0.151052475	0.1979971	-0.096557138	0.15346336	0.033180237	-0.26139116	-1.2762203	-0.002003193	-0.14529228
0.083883525	-0.078526495	0.023803234	0.329182625	-0.9518137	-0.108950615	0.25337362	0.26123857	-0.12840223	-0.230976343
0.062675	0.06984973	0.20638943	0.16233921	0.3549137	0.21282244	0.00929451	-1.4856157	0.49356794	-0.426376105
0.21234894	0.25158191	-0.28790903	-0.195593597	0.009777069	0.08074379	-0.14105225	0	-0.019642353	-0.220652345
0.14781475	-0.321315525	-0.071492195	0.067148685	0.04510641	-0.02421236	-0.18797112	1.2019215	0.07542515	-0.064802883
-0.34504676	0.01981306	-0.02172327	-0.238259795	0.16413975	-0.19080687	0.15633488	-0.61236143	-0.34301758	-0.08292794
-0.049526453	0.098288775	0.34370518	-0.038003683	0.12550259	0.32173347	0.112781525	-0.60896444	-0.060637474	-0.15833616
0.0521276	1.020036475	-0.15340996	0.330198764	0.75072336	-0.004188061	0.63618565	2.2484417	-0.22477579	1.4243934
0.11232257	-0.240322827	-0.020386219	0.09232354	0.09235191	-0.024424076	-0.24374199	-0.015204906	-0.16618061	0.104623555
-0.237618445	-0.29469371	0.19814491	-0.25145197	-0.10100269	0.123772144	0.13721228	0.07916403	0.26436424	-0.18053341
0.588290935	0.420309535	0.13791084	0.038868905	0.35183382	0.27983665	0.26215076	0.1309228	0.3629985	-0.187061788
0.33527445	0.22404027	0.13256693	-0.052826405	-0.91931725	-0.3736863	-0.36398554	-0.47214794	-0.3723011	-0.06298852
0.271892785	-0.021611935	0.19639444	0.108319285	-0.4889183	0.27245283	-0.102371216	-0.51532745	0.3145814	-0.015860798
0.130918505	0.044210433	0.12216139	-0.3854506	1.639574	0.18918991	-0.13411283	0.48428202	-0.030799866	-0.232786895
0.276332615	0.276420105	0.11733341	0.352593675	-0.36096478	-0.4597578	-0.005568981	-1.1266589	-0.25260973	0.26957965
-0.04586792	-0.151818515	0.16959	-0.16638184	-0.040555	0.25731325	-0.089437485	-0.34964275	0.07412624	0.181752205
-0.143939016	-0.32699728	-0.017264366	-0.13267636	0.17242718	0.20338869	-0.03050375	-1.537961	0.023459911	-0.255038735

RECQL4	*RECQL5*	*REV1*	*REV3L*	*RFC1*	*RFC2*	*RFC3*	*RFC4*	*RFC5*	*RIF1*
0.48256277	0.512294775	-0.16714334	-0.277406695	0.248825799	0.126465081	0.27682495	-0.6488681	-0.249640705	-0.190644257
-0.62545135	-0.75809287	0.2592888	1.0248244	-0.759631635	-0.641391525	1.0567765	0.2866783	-0.222552535	0.2742517
-0.19815206	-0.064115048	0.47429323	-0.43285894	0.432498455	0.342807535	0.36584425	0.14156246	0.40728807	0.07952142
-0.567225925	0.054581165	0.16864204	0.131244184	0.43361021	0.49449968	0.17622662	-0.041938305	0.293680425	0.162490132
0.146577595	-0.124719145	0.20753145	-0.269676925	0.21636462	0.208404775	0.65410566	1.2926369	0.179337501	0.036970854
0.145353558	-0.25825977	-0.03618765	-0.395655145	-0.341827625	0.38663388	0.22913837	0.9476013	-0.41208745	0.382101055
-0.135646103	0.368304975	-0.46800232	-0.276599165	0.147624728	-0.132364272	-0.08796883	-0.55121994	-0.282871245	0.025218487
0.044463873	0.38088441	0.01877451	-0.124195574	-0.18947363	-0.761761175	0.09916687	0.46037674	-0.016625405	-0.2361269
-0.044460058	-0.001032115	-0.056685925	-0.210752013	0.018932581	0.30167699	0.15624142	0.14880323	0.08766699	-0.169231178
0.395182365	-0.021500827	0.19783068	0.020829678	-0.87421966	0.174375298	1.1380482	1.0150452	0.505835295	0.471160888
-0.05904031	0.013002158	-0.26992512	-0.030933143	0.16005683	0.235869885	0.52067614	0.55285835	0.77568007	0.134720565
-0.263830665	-0.07518053	-0.14279652	0.40666866	-0.253427745	-0.178953885	0.11377001	0.2656765	0.193440675	-0.13110757
-0.00125885	-0.056063892	0	0.211868292	0.043889761	-0.014644623	0.6001015	0.1477189	-0.037291765	0.457186935
0.09652376	0.003261567	0.18837833	-0.04633164	-0.3224702	0.244733808	1.0566278	0.7653675	0.31103516	0.073032379
0.001577854	0.020144701	-0.17326641	-0.215945008	0.051897525	0.34194064	-0.43287516	0.36211586	0.28887057	-0.02361393
0.116742375	0.038591145	-0.37341976	0.106470347	-0.032165287	-0.21806955	0.7421961	-0.95784044	-0.1367774	-0.20356798
0.017565249	-0.064441204	-0.041470528	0.023049355	0.72730495	-0.144390585	0.4830532	0.12848759	-0.21501708	0.10469055
0.225659605	0.17508483	0.10820007	0.27588749	0.08479166	-0.28010893	0.5026903	-1.2269864	0.2327857	-0.076164005
-0.08006811	0.110761403	0.048396587	0.30939388	-0.00219965	0.058568003	0	-0.8212271	-0.161990165	0.01335907
0.161759135	-0.036130665	0.08670473	-0.305915355	0.092371464	-0.0697484	-0.41497183	-0.57328176	-0.184776545	-0.264633895
-0.112924101	-0.22931385	0.063299656	0.322122575	-0.029915333	-0.173694135	0.78041553	0.46166134	-0.117137433	0.00130749
-0.07049799	0.061241151	-0.22421789	0.110248329	-0.222543	-0.33346081	-0.31621075	-0.15971947	-0.16649246	-0.0779047
-0.565871235	-0.021251917	0.031588078	-0.032375097	0.275256155	-0.436002	0.17834282	-0.1296835	-0.256386513	-0.21704054
-0.363172535	-0.158107995	0.036442757	-0.13794565	-0.04504156	-0.278642185	-0.71187496	-0.4244852	-0.68668415	-0.37799501
0.008509159	-0.115100621	-0.064890385	0.127470016	0.038028003	0.097074272	-0.07615042	0.55771923	0.35520554	0.27297115
-0.279238465	-0.075642825	0.002719402	0.0233078	-0.14226818	-0.288116935	-0.46863365	-0.78385496	-0.468848945	-0.15957427
-0.036007166	0.0784657	-0.12735415	-0.182796	-0.362923625	-0.355500935	-0.14331818	-0.59022427	0.00206733	0.167188645
0.070819139	0.019029379	-0.13916111	-0.1484313	-0.470619915	-0.180547955	-0.20286131	0	-0.313183315	0.090999365
-0.362703565	-0.32025886	0.28713894	0.59365463	-0.31831407	0.168278217	-0.15493298	1.1300144	0.783690465	-0.196214915
-0.142566444	-0.104958297	-0.111992836	0.192059515	0.11152768	-0.5908873	-0.07310152	-1.0289707	-0.46833633	-0.260578155
-0.481564275	-0.072609188	0.25457764	-0.254036665	-0.19320035	-0.072433949	0.29355	0.6518574	-0.414903165	0.0200088
-0.133776665	-0.076383355	0.53287554	-0.300059315	-0.038414715	-0.005060195	-0.27846336	0.36741066	0.094646456	-0.03605318
0.40911746	0.059654235	-0.05359173	-0.19541335	0.695381175	0.462887285	-0.10385847	0.98419476	0.112515685	-0.216566565
0.31493974	-0.205659625	-0.14595795	0.00233078	-0.29393029	0.03984642	0.31837606	0.10349226	0.041775225	0.260138985
-0.148611545	0.010771513	0.7883444	-0.19649768	-0.098033905	-0.005397081	-0.025458336	0.89455795	-0.069521429	-0.027085781
0.15705228	0.046046971	-0.3007121	0.539888635	0.00143075	0.168840648	0.0968585	-0.04095316	0.133924486	-0.135778902
-0.117053034	0.17939234	-0.14550734	0.08685732	0.084182025	-0.02642226	-0.0531559	-1.5418558	-0.175236465	-0.180983782
0.18006277	-0.134371753	0.15376139	-0.330861095	0.17361474	0.3765471	-0.466856	-0.041938305	0.30617595	0.026905537
0.203458073	0.070928574	-0.16991043	-0.23445201	0.017562865	0.134378912	-0.26392317	0.12667942	0.23806238	-0.014931202
0.019083023	0.188379765	-0.14356804	0.04459238	0.229873658	0.003101111	-0.29812622	-0.7740998	-0.362338555	0.051878453
0.39451575	0.302552225	-0.12868643	-0.32160616	0.47779036	0.38120675	-0.3482213	-0.43474245	0.175107486	-0.024199726
0.485198735	0.054940939	-0.13599157	0.268671035	0.128251075	0.4453373	0.72954226	1.0393333	0.24379134	-0.015466213
-0.364248515	-0.02323699	0.16968775	0.853317975	-0.08535242	0.065352438	0	-0.44410992	0.795545815	-0.12642026
-0.01292086	0.015182257	0.1684432	-0.063696384	0.091916563	0.1966331	0	0.23492813	0.050994636	0.180225135
0.13983774	0.060800313	0	-0.040644169	-0.319261785	-0.21280408	0.25036812	0.31939793	-0.111407755	0.037033797
0.18841505	0.135959147	0.25896692	0.410868405	-0.135951043	0.57534028	0.21813345	1.4927282	0.80550098	0.216667892
0.011701585	0.004375935	-0.07011652	-0.08334494	-0.021398782	-0.677400355	-0.39088964	-1.1149373	-0.446846485	-0.169061901
-0.43457079	-0.051292658	-0.179111	0.097483399	0.05869794	0.402035	-0.14256382	-1.0514169	-0.10413265	0.021263123
0.27594948	0.094827175	0.17743349	0.052962303	0.209447625	0.97082425	0.39853716	-0.28685665	0.047844649	0.19189453
-0.38679695	-0.159045935	0	0.480460645	-0.107811215	-0.738639355	-0.111759186	-0.8073034	-0.28623867	-0.022134781
0.18878365	0.114866255	-0.2663598	-0.007382632	0.09334564	-0.748829605	-0.33149862	-0.65806055	0.154580591	-0.17094231
0.452164415	9.73E-05	0.14591694	-0.4116161	0.60835505	0.519632345	0.4268465	0.7728615	0.157324789	-0.090875148
-0.56123735	0.07078028	0.4102254	0.50118065	-0.142874485	-0.53728558	-0.077159405	-0.44367933	-0.187243225	-0.226872205
-0.006843567	-0.062309981	0.036442757	0.12999344	0.511648655	-0.039859056	-0.067405224	-0.1075263	-0.160289525	-0.146333695
0.00372553	-0.100845575	-0.88298655	-0.012501001	0.10875702	-0.244068145	-0.15706539	-0.7805486	-0.183328628	-0.31940961

RNF168	*RNF4*	*RNF8*	*RPA1*	*RPA2*	*RPA3*	*RPA4*	*RRM2B*	*SETMAR*	*SHFM1*
-0.4153378	0.046105385	0.34320259	-0.472859385	-0.13726425	-0.15617418	0.58381987	-0.95956635	-1.0176187	-0.7300892
0.6732905	-0.42430162	-0.28044582	0.450991625	0.8421531	0.24519539	-0.8241582	0.45726871	0.4250188	0
-0.107232095	0.66748476	0.15444088	0.5507357	-0.1443224	0.3552413	-0.44426298	-0.23043251	0.5660114	0.2063303
0.140548231	0.18766117	0.202557563	0.59821129	-0.6788902	0.27984095	-0.7276416	0.2905674	0.5470867	0.43884754
0.852550725	0.58149195	0.124022485	-0.658154725	0.15305138	0.101278305	0.49651384	0.042352676	0.43991137	0.24591827
-0.218035695	-0.007686138	-0.36014724	0.653224705	0.42379332	0.56826687	0.29212856	0.66192055	0.0794096	0.622056
0.233474485	0	-0.029054165	-0.232585195	0.63587856	-0.549242	-0.08941364	0.30345297	-0.5103922	0.36937332
0.091415405	-0.5603547	0.001780275	-0.3350668	-0.3249812	-0.17728329	0.021947384	0.4245777	-0.5776801	-0.008817673
0.36762572	-0.39018154	0.253057	0.411173345	0.29699278	0.3534298	-0.1584754	-0.21070576	-0.6666322	-0.26291943
-0.1345222	0.8162942	0.102221968	0.111789225	0.66821957	0.08403635	-0.09233618	-0.5766783	-0.44088078	0.2193613
-0.33053208	0.044110775	0.032082559	0.43622041	0.9557848	1.6274037	-0.019544601	0.27529144	0.470685	0.54274654
-0.377281665	-0.29929352	-0.023287295	0.471957445	-0.12792921	1.021481	-0.4361596	0.06970787	0.4744978	0.47846127
0.21655846	0.22694159	-0.19278598	0.117704629	0.09535599	0.039640427	-0.38108206	-0.4641075	0.4191246	0.3671255
0.63663411	-0.55082655	-0.07989335	0.272969013	-0.28670406	0.41642237	-0.7683964	-0.4765978	0.063531876	0.14819527
0.25641656	-0.16826487	-0.030935525	0.23519802	0.21719885	-0.3913293	0.15401268	-0.24622774	-0.28700638	-0.29315472
0.077373027	0.23682928	0.015567541	-0.475103865	-0.5209155	-0.792366	0.101541996	0.6858454	-0.07110691	-0.47732544
0.303850175	0.34346628	-0.125183104	0.050352812	-0.35981274	0.44934845	-0.23149347	-0.1993351	0.015048027	0.30499935
-0.157749415	0.08178806	0.06673646	-0.197191955	0.05693245	-0.17837906	-0.2694049	0.15117931	0.2091484	0.056207657
-0.442742115	-0.49903584	0.099924804	-0.048470497	-0.38294458	-0.34494448	0.22878551	0.09020901	-0.24351883	0.010056496
-0.102039336	0.9278836	0.069045068	-0.649221435	0.06096983	-0.22876263	0.5323491	0.59389305	-0.22809076	-0.1628952
-0.10220599	0.04633999	-0.24916911	-0.046871662	0.26569557	-0.00162077	0.15889788	-0.22428036	0.006587029	-0.2359724
0.020382641	0.41434336	-0.01838994	-0.38002515	-0.05924177	-0.23208809	0.13497496	-0.4332838	-0.4614091	-0.8220453
0.227075332	0.08563185	-0.315671915	0.030065298	0.4066491	-0.09925079	-0.241508	0.13741302	-0.022648335	-0.20906448
0.315666675	0.16103172	0.114055395	-0.25401974	0.3376832	0.011051655	0.0703063	0.6968136	-0.12759876	-0.24388504
0.57620144	0.282022	-0.0521462	-0.144820684	-0.17153168	0.32348156	-0.13691092	0.2765293	0.3235531	0.4133482
-0.331538915	-0.24209595	0.071758747	0.006406546	-0.21929502	0	0.11005831	4.59E-04	-0.1939578	-0.43347168
-0.55661773	-0.28522205	0.13093877	-0.069581987	-0.44365168	0.28898764	-0.27883577	-0.02237606	-0.18889093	-0.40919495
-0.828023675	-0.46221304	0.08647084	-0.24850917	-0.05323553	0.41889	0.63483095	0.05273533	0.14658976	-0.018767357
0.556432485	-0.36909342	-0.32440638	0.04324484	0.24338245	0.27789497	0	-0.16313839	0.17835808	-0.36656952
-0.103778365	-0.113618374	-0.272787094	0.03538537	-0.07707405	-0.2968912	-0.26530123	0.05658245	0.18345737	-0.62090206
0.44142485	0.13081503	-0.109718086	-0.174860475	-0.034828663	0.6412611	0.3675394	0.15955639	0.3744936	0.26407528
-0.125214575	0.3979621	0.021459345	0.01076746	0.34485483	0.90842867	0.31617594	-0.4984665	0.47751284	0.2923851
0.806903615	-0.00352335	0.56064725	0.5583055	0.44901037	0.40001488	0.15311337	0.34048462	0.3307538	-0.19249725
0.179245475	-0.47403765	0.127983572	0.342988965	-0.4308834	-0.4059968	0.021955967	0.025340557	-0.027563572	-0.20167446
0.024721145	0.06955242	-0.029631375	-0.152217385	0	0.36195135	-0.029817104	-0.26138115	-0.22634363	0.34370804
0.33643222	-0.15167284	0.26083779	0.419309135	-0.19283056	-0.8126378	-0.10461187	0.22579098	-0.23881292	0.16938019
-0.25397372	-0.317338	0.116615298	-0.237504727	-0.3433013	-0.9395828	-0.014168739	-0.04365444	-0.6155672	-0.6833954
-0.146151068	0.21322346	-0.267060041	-0.222557785	0.18664885	0.45974064	0.25121355	-0.45487404	0.4321642	0.19010735
-0.75053598	0.32502127	-0.023142576	0.018864155	-0.09217119	-0.12124395	-0.3492961	0.10926819	0.014879227	0.042209625
-0.061767102	-0.9426732	0.024005415	-0.15511894	0.5459671	-0.20008802	-0.14684868	-0.10043907	0.19527149	-0.19913483
-1.0450244	-0.40344286	-0.22082615	-0.1076169	-0.061783314	-0.097364426	0.08271694	-0.09952164	-0.11495972	-0.22008228
0.371469495	0.12473154	0.003783465	0.69551468	0.008787632	0.8757925	-5.14E-04	-0.043466568	0.31790304	0.043471336
0.1481235	1.0510783	-0.066438438	0.022604465	0.7322326	0.1329341	0.2769847	-0.44335175	-0.028806686	0.02681446
0.243075842	0.40695333	-0.042927264	0.71064543	-0.26790667	-0.46790648	0.011819363	-0.030564308	-0.08943844	0.50020313
0.277081952	-0.46133947	0.05934429	-0.137023451	0.06732559	-0.010080338	0.007407188	-0.40445137	-0.07906294	-0.36010647
0.79593467	0.89644957	0.097820045	1.26708845	0.589725	0.29096413	-0.40241003	-0.06399536	0.27098703	0.54529953
-0.68318535	-0.4738431	-0.100560187	-0.2459867	-0.07563114	-0.19469118	0.13269377	0	0	-0.20674801
-0.29998088	-0.4712429	0.071308135	-0.37441419	-0.39282274	-0.29509974	-0.042670727	0.4538555	-0.5976672	-0.0495739
-0.8232162	-0.02379942	-0.17619824	0.277011395	-0.19475555	0.8216076	0.14465618	-0.19573689	-0.25911522	0.3767557
-0.147905582	-0.14354849	-0.152858018	0.21730685	0.06342316	-0.33053017	0.066209316	-0.29365063	0.8748355	0.013685226
-0.10238052	-0.103815556	-0.103151075	-0.30115342	-0.39877987	-0.26723242	-0.37432957	-0.02237606	-0.04670763	-0.33682346
-0.31659317	0.4706149	0.156845325	0.727172135	0.14357805	0.5223131	0.14543247	-0.02237606	0.46294308	0.05996704
0.181863301	-0.059043407	-0.092073203	0.00245023	0.34718084	-0.26723242	-0.43624735	0.118125916	0.46067238	-0.37852287
0.269105436	0.13519478	0.161939142	0.2446618	0.04046297	-0.20383692	-0.3091278	0.28672886	-0.4331684	-0.34689808
-0.543444395	-0.37064457	0.00769496	-0.55217743	-0.6471906	-0.7604189	0.20799589	0.16602993	-0.1875453	-0.898962

SHPRH	*SLX1B*	*SLX4*	*SMUG1*	*SPO11*	*SPRTN*	*TDG*	*TDP1*	*TDP2*	*TOP1*
0.010585785	0.025121689	0.27928376	0.3100314	0	0	-0.62908363	0.071044445	-1.5161119	-0.8468883
1.1396761	-0.02726841	-0.70933867	-0.20728588	0	0	0.18542862	0.09010458	0.76601315	0.095848795
-0.122400284	0.28608704	-0.08046079	-0.52835035	0	0	0.019535065	0.07537651	0.1854701	0.444538608
0.07932854	-0.011623383	-0.45368385	-0.02916193	0	0	0.75040245	-0.29897547	0.102956295	0.25065898
0.35353422	0.19377041	-0.196910619	0.050498486	0	0	0.12834024	-0.29065514	0.62344456	0.02801037
0.78488827	0.07741356	0.047255993	0.06952095	0	0	0.4054575	0.07471275	0.027215958	-0.13638043
-0.2483654	0.008778572	-9.22E-04	-0.21075058	0	0	0.10437107	-0.0669837	0.14922667	-0.211602925
0.17962265	0.31367588	0.17602348	0.1489191	0	0	-0.0906744	0.061489582	0.08760834	-0.040779829
-0.18731594	0.09875965	0.347638128	-0.13434458	0	0	-0.2099433	0.056765556	-0.30360365	-0.010757208
0.11583805	-0.01669693	0.022485495	0.049124718	0	0	-0.054968834	0.5354295	0.55972195	0.17143035
0.5960846	-0.16178226	0.121202705	0	0	0	0.5049734	-0.05162859	0.8164635	0.224925281
-0.23652554	-0.030966759	-0.240875005	0.09014988	0	0	0.1745696	-0.200346	1.3246689	0.50399374
0.027414322	0.07381725	-0.26569843	0	0	0	0.33249712	-0.27838135	0.04368353	0.464381935
-0.65620804	0.51562023	-0.24900079	-0.12386608	0	0	0.2164259	0.5161748	0.68139267	0.8256309
0.09640694	-0.23016739	0.02923131	-0.016834736	0	0	-0.26219034	0.10043383	-0.5200701	-0.459335088
0.14824867	-0.44591427	0.164364815	-0.27960634	0	0	-0.14410686	0.113808155	-0.31866217	-0.416285035
-0.12540388	-0.056773186	-0.124087094	0.002551556	0	0	0	-0.23907328	0.73878574	-0.29450631
-0.041107178	0.37634373	-0.166136982	0.120253086	0	0	-0.11946249	-0.15365362	-0.30488253	-0.125297308
0.4224758	0.25024033	0.122296335	0.23814821	0	0	-0.1780076	0.14715576	-0.45200968	0.030324221
-0.40750027	0.05312729	0.14401531	-0.3469019	0	0	0.17080688	-0.12711763	-0.850997	0.143708945
0	-0.53767014	0.04233837	0.08423185	0	0	0.6272726	0	-0.47579002	0.378491163
0.18831062	-0.19959927	0.09567833	-0.20035505	0	0	0.16985798	0.2697258	-0.5366969	-0.35248017
0.38219833	-0.5759554	-0.12150979	-0.058509827	0	0	-0.13815022	-0.42642307	0.3031745	-0.076933622
-0.048004627	0.14162445	0.069365263	-0.09332037	0	0	-0.44321823	0.004840374	0.058911324	-0.013952971
-0.001670837	0.21056747	-0.235080245	0.08127689	0	0	0.14411354	-0.12096357	0.5834341	0.40949082
-0.384696	-0.30834198	0.109954118	-0.24463558	0	0	-0.30217457	-0.27642155	-0.80865574	-0.226979025
-0.46041918	0.031331062	0.126526835	0.12763405	0	0	0.010452747	-0.06949139	0.36663914	-0.156958103
-0.057393074	0.293725	-0.02785945	0.30289555	0	0	-0.6283083	0.23658323	0.71662235	-0.052814485
0.4178114	-0.010016441	0.25561906	-0.2954116	0	0	-0.03143692	-0.20820141	-0.015428543	-0.01870584
0.10502815	-0.3841381	0.16367054	-0.36442757	0	0	-0.2129612	-0.02232933	-0.36182976	-0.110772845
-0.39643764	0.42510414	-0.174478055	0	0	0	0.05580759	0.106208324	-0.17338562	0.411980399
-0.17832088	0.57626534	0.05031633	0.18539143	0	0	-0.019133091	-0.1541605	0.001847744	0.29354763
0.008869171	-0.16351414	-0.17123437	-0.110134125	0	0	0.25081348	-0.03859234	0.4736395	0.068588497
0.5639024	0	-0.366509208	-0.17260933	0	0	0.30806875	0.26550865	-0.13032866	0.198261975
0.4987688	0.14323044	0.086354255	0.14842272	0	0	-0.21610928	-0.20835543	0	-0.05936861
0.22790432	-0.05476761	-0.271170377	0.042054176	0	0	0.017611027	0.37412405	-0.16466713	0.01072669
-0.054512978	-0.16616726	-0.06281757	0.04849243	0	0	-0.00838995	0.24739742	-0.95133734	-0.660780665
0.21449757	0.10848141	-0.05694437	-0.33910084	0	0	-0.16260862	0.34987068	-0.24338818	-0.098159555
0.38664246	-0.039803505	0.072670938	0.11505842	0	0	0.096961975	0	-0.4114976	-0.035490752
-0.18994999	-0.16375828	0.09796095	-0.44193316	0	0	-0.4749422	-0.04464388	-2.24E-04	0.132463694
-0.1208477	-0.47641277	0.200215344	0.08652067	0	0	0.04317856	0.3617921	-0.6780677	0.337629555
-0.16441488	-0.31450462	0.190137615	-0.27820444	0	0	0.002986908	0.041864872	-1.1149068	0.6735499
0.5896611	-0.47732258	-0.192597865	0.17630672	0	0	0.6594162	0.058902264	-0.044777393	0.398566975
-0.115091324	-0.19195652	-0.00840878	0.15430975	0	0	0.3804283	0.23993349	0.14052391	0.388087035
-0.10845375	-0.06388092	0.21644092	-0.25827694	0	0	-0.19387197	0.066043854	-0.5568361	-0.040829181
0.6407099	0.5075598	-0.3064599	0.28351307	0	0	-0.29733944	-0.46549797	1.0607901	-0.21225691
-0.62537956	-0.045643806	-0.211925747	0.028149128	0	0	-0.3979473	0.09366751	-0.7831292	-0.21051264
-0.24921036	-0.3357458	-0.070634841	-0.24656773	0	0	0.085392475	-0.14426947	0.31135225	0.109167337
-0.42024708	0.051927567	0.0239532	0.07478857	0	0	-0.38487482	-0.05027485	-0.34214497	-0.084181071
0.63562346	-0.33606243	-0.144571305	-0.21101618	0	0	-0.21208906	-0.038078308	-0.38888597	-0.213997603
0.06593895	-0.007098198	0.033223391	0.46857023	0	0	-0.04275751	0.26366854	0.06981468	-0.491908785
-0.44174862	0.3151722	0.1438694	0.25841808	0	0	-0.06675577	0.15753555	0.5846453	0.001401663
0.2705698	0.021735191	-0.051374915	-0.04173851	0	0	0.26017046	-0.17454195	0.5448122	0.474633932
-0.17303753	0.23376656	0.034981965	-0.05230713	0	0	0.23424244	-0.27637625	0.42760372	-0.03238034
-0.3813138	0.007436752	0.26735115	-0.30363846	0	0	-0.05031109	0.24091911	-0.44296646	-0.61910892

TOP1MT	*TOP2A*	*TOP2B*	*TOP3A*	*TOP3B*	*TOPBP1*	*TP53*	*TP53BP1*	*TP73*	*TREX1*
0.33841109	-0.407297622	-1.5623312	0.19193888	0.42070795	0	-0.702641235	0.07275057	0.8350091	-0.090407373
0.20963454	-0.351473575	1.6448922	-0.22628689	-0.774085275	0.4624238	0.6103735	0.02422905	-0.46571207	-0.53851985
-0.10774517	0.015274048	0.5708728	-0.069863796	-0.01788282	-0.001132488	-1.1562774	0.27581692	-0.32788992	0.096473218
-0.22107339	0.174568178	0.5362053	-0.19293833	-0.076667065	-0.23231554	0.450425145	0.06918955	-0.2954626	-0.939369935
0.112990619	1.18207338	0.46980333	0.10062122	0.2629137	-0.12785769	1.3644147	0.40824604	-0.39037132	0.453653335
0.35080408	2.3383813	0.50089264	0.28396225	0.131763219	0.6515517	1.1475325	-0.05351734	-0.06314373	0.28713274
0.055936098	-0.98096585	-0.6567116	0.008675098	0.266919375	-0.46456146	-0.10676813	-0.29410458	0.002092362	0.224581245
0.094758512	-0.081928255	-0.7641649	0.004883766	0.071026086	-0.06621981	-0.382526635	-0.12015152	0.111044884	-0.51487804
-0.076515915	0.34764504	0	0.02828312	0.082562925	-0.97089624	-1.34305025	0.11273098	-0.05649948	0.29246617
0.069174054	-0.163940668	0.0690794	-0.17993784	-0.222222091	0.7023053	0.35610008	-0.09136629	0.17550278	0.31058836
-0.2397089	1.06195425	0.594543	0.008675098	-0.033512835	0.9625683	-0.021204472	-0.009989262	-0.130373	0.101755141
-0.176939015	1.23343135	0.5796399	-0.0865922	-0.212877275	0.032953262	0.338109015	-0.029486656	-0.119231224	-0.054757595
-0.013131142	0.795331	0.3053689	-0.1697545	-0.060470582	0.32320356	-0.82088518	0.35679102	-0.14632034	-0.086978913
0.281133185	0.65396642	0.5815768	-0.14142466	-0.07159376	0.80093145	-1.2996459	-0.24903536	-0.22669029	-0.18255329
0.084009646	0.043084144	-0.6438756	-0.052693844	0.155569315	0.6366501	0.512809755	-0.475039	0.35717678	0.2663989
0.097397565	-0.86756065	-0.4242277	-0.10039663	-0.094290017	-0.8365011	-0.32557083	-0.03336668	0.06623745	-0.25161838
0.048967835	-0.257184985	0.386302	-0.032598972	-0.32450795	0.36182356	0.420127865	0.17165947	-0.18462467	0.438842305
0.170117385	-0.32252765	-0.19719124	-0.1454196	-0.085300208	0.5055733	0.038889885	0.044270992	0.43460274	0.149226665
0.001404285	-0.29609561	0.08824921	0.07690239	-0.057121516	-0.19374895	-1.0760527	0.22270107	0.029500961	-0.275350565
0.07102132	-0.1917634	-0.31590033	-0.004551888	-0.070960998	-0.5702162	-0.169380666	-0.1548438	-0.13618755	-0.531070715
-0.08782387	0.756749635	1.0197139	-0.0660162	-0.20930767	0.18488789	0.18178653	-0.114262104	-0.001680374	0.155161857
-0.218903778	-0.428085805	-0.7689395	-0.021955013	0.051756385	0.26569176	-1.10170985	-0.28999186	0.018650532	-0.08098745
-0.33629179	-0.74291516	0.19324875	-0.07411337	-0.348409415	-0.22414017	0.00935411	0.26554585	-0.2750454	-0.262786865
0.014391661	-1.1000273	0	-0.093509674	-0.058706282	-0.41713953	-0.92406513	-0.11534691	0.013614655	0.185894965
0.052529336	0.88188123	0.14061642	-0.07979107	-0.275799755	0.99350643	-0.80681945	0.21677971	-0.20189095	-0.196901325
-0.555476665	-1.1658597	-0.43708992	0.28749943	-0.04255891	-1.1200099	0	-0.012313366	-0.004472733	0.10211754
0.134385345	-0.670942305	-0.42200756	0.13479805	0.034398318	-0.5256338	0.219179635	0.34915876	0.05568981	-0.034708977
0.060941218	-0.157634495	-0.21072483	0.013778687	0.064977169	-0.2631855	-0.159549955	0	0.058014393	0.012530804
-0.43752241	0.44681382	0.15460253	0.14454317	-0.136359933	0.93673134	0.442523	0.33748293	0.49226046	0.446084975
0.008919955	-1.28372385	-0.14159966	0.054358482	-0.117172478	-0.18543673	0.099042893	-0.07489729	0.10426998	0.169446945
0.129808427	0.165655369	-0.5011687	-0.09591198	0.059244871	0	0.47737313	-0.48582602	-0.028987885	0.048699855
-0.144369366	0.303968905	0.3665347	-0.21009064	-0.064459085	-0.048573017	0.181646345	0.4302168	-0.22907448	0.388580315
-0.099828722	0.9899752	-0.33228493	0.42210484	0.398459201	0.4930477	0.56022214	0.2141962	-0.23191643	-0.36339569
0.11535573	0.369221215	0.52600384	0	0.182774065	0.7492585	0.7234292	0.05525875	0.046831608	0.028804779
0.05729628	0.47987295	-0.14108849	0.04756832	0.037899255	0.46990538	-0.077997685	-0.2315526	0.16474247	0.109559537
0.13865042	0.60282515	0.12442255	-0.07687998	-0.172121525	-0.52249146	1.13740345	-0.92775965	0.08950138	-0.332494255
0.077229738	-1.3762655	-0.97839165	0.16376019	0.130322935	-0.67231464	0.001565695	-0.18271971	0.22352362	-0.183488845
0.17933941	-0.65189553	-0.12672806	-3.72E-05	-0.076454878	-0.365942	-0.50567151	0.20158863	6.96E-04	0.464413165
0.195071935	-0.449197055	-0.14086914	0.009609699	0.199068308	0.028673172	0.091108798	-0.27191782	0.25070953	0.033281325
0.18985295	-0.71661353	-0.19730425	0.103113174	-0.09654951	-0.2620411	-1.031755675	-0.005404472	0.16489029	0.66401005
0.117814063	0.191666129	0.03125763	0.23946762	0.44007397	-0.29010487	-0.097299576	0.13911152	0.49410105	0.40281725
-0.36694205	2.0594282	0.5045247	0.52282906	-0.16695595	0.011523247	1.11620142	-0.2638297	-0.13781786	0.162873745
-0.275102855	-0.04434228	0.27262354	-0.0725708	-0.403320085	0.09959698	0.5639868	0.25749683	0.17054367	-0.079335213
0.011926655	0.64215898	0.53090477	-0.23945999	0.085373165	0.14768934	-1.0883286	0.012150764	-0.2881775	0.008044719
0.0984714	0.094536065	-0.20975542	0.23996592	0.25942302	0.29995966	0.079158785	-0.026839733	0.22250557	0.159172535
-0.181209325	1.0905373	-0.018631935	0.5389366	-0.141499755	1.0814424	0.76079703	0.9417496	0.045547485	-0.34689045
-0.041418315	-1.61413385	-0.9951091	-0.110740185	0.079581499	-1.1051884	0.035075188	-0.09391022	0.13234377	-0.261856075
0.030863285	0.323437215	-0.49363518	0.20321369	0.118927718	-0.32558107	-1.49863555	-0.2074771	0.052824497	-0.31889534
-0.003836393	1.6836033	1.2261901	0.14141178	-0.016146898	1.1793699	-0.35597682	-0.37651348	0.038718224	0.231152055
-0.153474093	-2.1262491	0.24643946	-0.066132545	-0.105761767	-0.40593338	-0.69956515	0.3492117	-0.04499054	-0.299135205
0.41939782	-0.091217757	-0.19402742	0.16215897	0.154388903	-0.03200054	-0.93771837	0.21284199	0.28574944	-0.190519335
0.192866328	0.960829025	-0.06999445	0.24186277	0.059659006	0.049658775	1.47833155	-0.14117289	-0.041873932	-0.378792525
-0.10518527	-1.24655915	0.8646884	-0.016471863	-0.209456445	0.066967964	0.85200977	0.3889146	-0.5056381	0.07904339
0.013153791	-0.151403905	-0.0735755	-0.106043816	-0.097765447	0	-0.7773988	0.18669176	-0.16977024	-0.18378258
0.09231186	-0.95012642	-0.92111874	0.034282684	0.027658939	-1.0846744	-1.3210368	-6.92E-04	0.06623745	-0.21971512

TREX2	*UBE2A*	*UBE2B*	*UBE2N*	*UBE2V2*	*UNG*	*UVSSA*	*WEE1*	*WRN*	*XAB2*
0.7010827	-0.54819608	-0.73899077	-1.0364151	-0.7614572	-0.93094254	0.52984333	-0.97411325	0.09008169	0.396904
-0.7581115	-0.41381765	0.76330853	0.56385994	0.611948255	0.021987915	-0.47514057	0.595751285	-0.10044527	-0.017803192
-0.3280368	0.032650709	0.046075345	0.6080437	0.22456026	0.43056107	0.24659729	0.333403585	-0.364439	-0.22113705
-0.5329852	0.48387242	0.0975337	0.7232895	-0.018465281	0.70966053	0.37826538	0.26840782	0.1040225	-0.60434103
-0.3324318	0.32073997	0.250816585	0.25723076	0.461461065	0.21552753	0.41922998	0.790765045	0.2890706	0.1752224
-0.16460514	0.264217137	0.143002275	0.20734835	0.091866018	0.44942093	0	0.142398596	-0.17440844	-0.24386024
0	-0.074568512	0.024677992	-0.4547863	0.097302437	-0.21471214	-0.14916134	-0.634415865	-0.27915	-0.036405563
0.10125446	0.25893116	-0.173777577	0.12340498	-0.269534825	0.004874229	-0.12050152	-0.43658565	-0.118715286	-0.14488697
0.002301216	-0.422345875	-0.15378356	-0.029951096	0.300786494	1.2771711	-0.2611704	0.05331254	-0.3113122	-0.31079006
0.027541637	0.011810779	-0.169693705	-0.14472961	-0.315608265	0.46327686	0.09958553	-0.006778479	0.31110287	-0.13657665
-0.121816635	1.3028355	-0.069297554	0.5397396	0.194221258	-0.14233589	-0.07077265	0.701354275	0.56532574	0.033309937
-0.36395693	0.55104779	0.166381595	0.54875755	0.173588755	-0.20579433	-0.2115469	-0.060595755	-0.2346797	-0.4391961
-0.082437515	-0.08700967	0.112433434	-0.27500153	0.228128675	0.29779625	0.2019496	0.8746805	-0.107171535	-0.08586979
-0.3391385	-0.258111475	-0.059525492	0.62862015	0.134100675	0.6481056	-0.17897177	0.010055305	0.1818533	0.23366737
0.33561182	-0.044165851	-0.091208697	-0.65459156	-0.604998125	-0.49132538	-0.007818699	-0.102174995	0.07002497	0.10695553
-0.0598073	0.149148465	-0.037004709	-0.32616234	-0.327567335	-0.10189724	-0.058155537	-0.126582145	0.35115767	-0.23065376
-0.23708487	0.378588435	0.0976131	-0.035773754	-0.02965498	-0.048586845	-0.1409216	-0.134662628	0.20797777	0.20501995
-0.023522854	-0.35716224	0.31663799	0.28795242	-0.17598128	0	0.10325432	-0.82137275	0.39305592	-0.17649269
0.09696531	-0.48319388	-0.53569245	-0.20078182	-0.577488425	-0.25596523	-0.09775448	-0.211430785	0.22805166	-0.16183949
-0.01838541	0.23404312	0.012907505	0.2872877	0.18809223	-0.13098717	1.0896668	0.376487015	-0.08211708	-0.29713154
0.01665163	0.06529069	-0.022986174	0.52850056	-0.164669515	0.4146366	-0.39205885	1.01751493	0.1843872	-0.3684187
0.26712656	-0.204018115	-0.105154752	-0.28116322	-0.56024742	-0.12785912	0.36920357	-0.62515855	-0.006018162	0.012722015
-0.24440145	-0.220639225	0.177223445	-0.20487785	-0.003868815	0.3115101	-0.14929962	-0.327714685	0.06785631	0.02481556
-0.0589962	0.377541545	0.161610604	-0.34628582	-0.18310714	-0.2968502	-0.03207302	-0.62367226	-0.15779972	0.07798672
-0.27419186	0.17043042	0.382729055	0.78933907	0.379519939	0.31292343	0.24848843	1.0598793	-0.01031208	0.088419914
-0.1416111	-0.015531539	-0.03423214	-0.16383362	-0.91281773	-0.4966402	-0.002813339	0.075422765	-0.19956017	-0.06977558
0.033894062	-0.576315165	-0.044374943	-0.095294476	0.24354768	-0.23424721	-0.009491921	-0.106751205	-0.32812023	-0.16631031
0.16359568	-0.053726198	0.036331892	-0.53283596	-3.45E-04	-0.78026104	7.46E-04	-0.9561546	0.12541342	-0.35973167
-0.2247405	0.312030785	0.37875057	0.24372673	-0.211670635	0.15341187	0.2822132	2.06214235	0.030765533	0.15652084
0.14417315	-0.29518914	-0.13659215	-0.332047	-0.133926151	-0.34743023	0.24814987	-0.31389713	-0.3567438	-0.08709526
0.052692413	0.79184245	0.018912792	0.10434294	0.160478114	-0.4924507	0.36057043	0.058324814	-0.36286116	0.05095291
-0.10919905	0.43583608	0.195265055	0.43017292	0.056088448	0.5414343	-4.15E-04	0.204969883	0	-0.13654804
-0.1921258	-0.022474051	-0.503196955	0.07511902	-0.024919987	0.24526882	-0.2840433	-0.3980484	-0.35055304	0.16818619
0.027252674	0.055993317	-0.08939123	-0.3764038	0.07324934	-0.4901657	0.21759224	-0.17610669	-0.002192974	-0.3838911
0.10330248	-0.180677655	-0.639591695	0.05800438	0.21616292	0.43353844	-0.21265554	0.009060145	0.46922255	0.27812862
0.07009268	0.139124155	-0.122449162	0.07891798	0.56321955	0.15694046	-0.3124466	0.393852713	0.05010605	0
0.2445116	-0.29645586	-0.195808645	-0.7551327	-0.373566862	-0.32690144	0.23109627	-0.84674072	-0.031085968	-0.08401203
0.073318005	-0.041964293	0.35378099	-0.26159763	-0.067619561	0.09551239	0.17956638	0.62398578	0.4593339	0.33268356
0.26228666	0.037522556	-0.313633925	0.15672493	-0.4363184	-0.9313011	0.22191048	-0.370440245	0.32764482	-0.017385483
0.11671305	-0.19153047	0.05135703	-0.5108304	-0.14482999	0.061885834	-0.12304354	-0.226796865	-0.106107235	-0.15143108
0.21694756	-0.1255579	-0.11608219	-0.32831955	-0.179206855	-0.008816719	0.11441183	-0.54227591	-0.03701973	0.40417385
-0.28471994	-0.173844097	-0.25777268	0.18069267	0.36804485	0.6296139	-0.283844	0.21673298	0.48633242	0.10072136
-0.26765347	0.008517265	-0.040079832	0.14484406	0.8998034	0.19546795	0.20468044	0.36029649	-0.19787169	-0.31818295
-0.18392134	0.475466965	-0.21154189	0.50735664	0.238427876	0.3851471	-0.4288969	0.6948714	0.42267513	0.23027802
0.23603392	-0.381539105	-0.098614218	-0.7047024	-0.252408025	-0.33160114	0	-0.383990055	0.22299433	0.20085812
-0.5623088	1.5390563	-0.15837002	1.6773424	0.500005245	0.12799072	0.003226757	1.67008735	0.90908813	-0.31289387
0.26149797	-0.313015224	-0.22472787	-0.41517258	-0.280301335	-0.41223145	0.083013535	-0.65783193	-0.2517662	0.09481239
0.061309814	0.109433649	0.596337325	-0.46005058	-0.37374854	-0.13501072	-0.33790636	-0.4110651	0.1040225	0.3710661
0.02924776	0.25527453	0.099751235	-0.19603348	0.392435562	0.10663319	0.19508791	0.61145544	-0.44392824	0.021475792
-0.054899216	-0.004859209	0.513335465	-0.055797577	-0.195153235	-0.7284107	-0.06101656	0.7103174	0.20235205	0.5153637
0.3913679	0.015022755	0.022467612	0.19522095	-0.339977025	-0.36699104	-0.3563428	-0.39375853	0.14708376	0.24005604
0.14921284	0.382876875	-0.012284756	0.24894619	0.30620289	-0.12474537	0.6111512	0.25710011	0.23060036	0.2560978
-0.30168962	-0.232654095	0.47135544	0.23904896	0.24881315	-0.12105751	0.19279051	-0.586258415	-0.36286116	0.61748695
-0.13784647	0.113603355	-0.050553559	0.08735561	0.160847663	0.009746552	-0.08167601	-0.165214775	-0.32375574	-0.24830246
0.35217237	-0.229097605	0.175968885	-0.5886612	-0.6002829	0.06352234	-0.11427021	0.244993685	-0.4074688	0.030852318

XPA	*XPC*	*XRCC1*	*XRCC2*	*XRCC3*	*XRCC4*	*XRCC5*	*XRCC6*	*ZW10*	*ZWILCH*
0.4650364	0.25525093	0.18525505	0.14660835	0.5126796	0.40222287	-1.1456139	-0.01214695	-0.32150888	-0.98163843
0.17591763	0.2799759	-0.2571888	0.028652191	-0.61731625	-0.228239773	0.9598913	-0.073175193	-0.08406305	0.197763445
0.25236893	0.42687702	0.41482353	0.5580292	-0.20519114	-0.00648117	0.66240835	0.432247855	-0.23667622	0.051620959
-0.014469147	0.3558359	-0.20022583	0.12526894	-0.04584503	-0.03277015	0.60928774	0.087553501	0.7011514	0.622839915
0.21428013	0.43475533	-0.19267654	0.2522068	0.084794044	-0.140774725	0.69985535	-0.053314925	-0.030426502	0.379271265
0.11664772	0.1420269	-0.008253098	-0.1618824	-0.06747675	0.144507883	-0.983620415	0.477489235	0.5225501	0.6784842
-0.23519707	-0.58702564	-0.2829647	-0.21026182	-0.21817017	0.025638819	-0.425144915	-0.066661835	0.3074746	-0.91207195
-0.2645502	-0.6989393	0.43994522	0.020817757	0	-0.005918745	-0.114190817	-0.139457705	0.23692703	-0.518998615
-0.50837374	-0.47128487	0.12546349	-0.06562805	-0.15746832	0.085617066	-0.370003235	0.17045212	0.5585022	-0.35868311
0.11541939	-0.7801161	0.13997269	0.20094013	0.050472736	0.06727314	0.048827648	-0.054758548	-0.15599489	-0.069323778
-0.35066605	0.3305006	0.06738663	0.17521095	0.080738544	0.228656525	0.068150284	0.294150822	-0.44309235	0.094286443
0.35642338	-0.105490685	-0.09635162	-0.22751379	-0.15243721	0.085257766	0.413990975	-0.02141619	0.12171793	0.590790035
-0.42595148	-0.23002148	-0.06977081	-0.15333939	0.1784873	-0.171958925	0.154167175	0.242632865	0.3821764	0.7074623
-0.039894104	-0.272501	0.095939636	0.23093414	-0.04611683	-0.064376354	0.758897785	0.222228535	0.025535583	0.662457705
-0.07151413	-0.37454987	-0.15203476	-0.14257812	0.13214254	-0.155685423	-0.040313004	-0.17993307	-0.033869267	-0.070631503
0.0512805	-0.15285015	-0.040097237	0.26475525	-0.07058334	-0.21093297	-0.242812157	-0.184657095	-0.6701493	-0.50786448
0.3531103	0.2203455	0.14120865	-0.12178421	0.16428947	0.336441995	0.498401175	-0.046810148	0	0.61498213
-0.11284733	0.36445713	0.12147713	0.054283142	-0.09464407	0.253552438	-0.046194315	-0.100158213	0.031653404	0.21087313
-0.22728443	0	0.042461395	0.08934212	-0.16808414	0.105670214	0.35070943	0.097554683	-0.05518484	-0.15372014
-0.29818487	0.014594078	-0.093875885	-0.03710556	-0.09129143	-0.17442608	-0.58905768	-0.20268345	-0.005336285	0.066437005
-0.124679565	0.015481949	0.1635437	-0.28206682	-0.10340977	-0.110214948	0.39459659	-0.18537092	0.470582	-0.20759368
-0.15555859	-0.3931198	0.06941795	-0.03878212	0.05801773	0.255203963	0.107556346	-0.14009118	0.1989584	-0.620973835
0.23496246	0.52601147	0.091264725	-0.08851814	-0.231812	0.094997882	-0.096658705	0.19098568	-0.5786576	-0.22596717
0.29780483	0.59826374	-0.16614723	-0.09422588	-0.06891203	-0.27969599	-0.492063995	-0.122219325	-0.18643713	-0.639592405
0.22570801	-0.0940609	-0.23505402	-0.028066635	-0.08282852	-0.160668374	0.33199215	-0.00306273	0.42263842	0.48803496
0	0.26819324	-0.16787529	-0.2752328	-0.113835335	0.125372889	-0.154450175	0.057790755	-0.45852995	-0.358542915
-0.16043329	-0.06871891	-0.015116692	-0.058546066	-0.02506113	0.078872443	-0.009853125	-0.05584383	-0.08752203	-0.693083045
-0.2253046	-0.039998055	0.117183685	-0.01184082	-0.010977268	-0.021714925	-0.04359603	-0.140099048	0.26539564	0.157962325
0.23619938	0.34399128	0.109415054	0.028177261	0.11039257	-0.086796522	0.41068029	0.01274562	-0.027546883	0.24352432
0.22277975	0.082141876	0.011365891	-0.1841321	-0.050245762	0.040627956	-0.18696189	-0.089386463	-0.33616114	-0.080243113
0.09366083	0.17389202	-0.5394745	0.026493073	0.1077857	0.493288025	-0.484499215	-0.030142783	0.72165394	0.216596843
-0.042274952	0.050951958	-0.39296532	0.07830429	-0.15538359	0.388581995	0.430629715	-0.004800797	-0.023840904	0.49849652
-0.038925648	0.004991531	0.104227066	0.27201843	0.043281555	0.037693265	0.22293353	0.29208898	0.4355092	-0.178235764
0.68733215	0.001585007	0.10332489	-0.03793907	0.19216394	-0.087057115	0.50629473	-0.0353992	0.070734024	-0.24976277
0.06117153	-0.16135883	-0.08334923	-0.007005692	0.05354595	-0.130643367	-0.60550285	0.09755087	0.36477757	-0.35738993
0.24353886	-0.5620451	-0.22765923	0.2761593	0.08349848	-0.05730629	0.201322555	0.036897659	0.4932108	0.93535115
-0.016697884	-0.018686295	-0.08213806	0.015239716	0.26319742	0.00247717	-0.543018115	-0.201857088	-0.43555403	-0.820557835
0.2924738	-0.059515953	-0.004219055	0.14659882	0.1709404	-0.07539892	0.23567772	-0.174890997	-0.2814765	0.101035835
-0.15771198	0.21696472	0.08220291	-0.20224762	0.24153757	0.016870976	-0.249795915	0.194404119	-0.3964424	0.283173315
0.41578913	0.17273045	-0.05258751	0.076122284	0.036283016	-0.192867515	0.01102018	-0.099918364	0.007507324	-0.301269765
0.15590572	-0.018686295	-0.16904831	-0.051088333	0.5930667	0.071095229	-0.10058546	-0.12218046	0.38610458	-0.152009246
-0.30916548	0.4838667	0.66010857	0.38591003	0.33201075	0.219026095	0.21657108	0.418378115	0.56648254	-0.14108968
0.10733414	-0.3156414	0.00507164	0.001058579	0.40457916	-0.367004635	0.56004047	-0.40551472	0.17952919	0.227794415
0.089466095	0.13350391	-0.08069801	-0.007005692	-0.06881857	-0.194749595	0.270980835	0.075006487	0.051054955	0.279727935
0.18458843	-0.04404068	0.33948517	-0.20594311	0.20542336	0.173672915	-0.208709955	0.008374214	-0.45446396	-0.46274733
-0.20401812	0.49449062	0.24216843	0.19795227	-0.31874418	-0.07643485	0.74097586	0.11610842	0.024998665	2.34321235
-0.35561943	-0.11201477	0.1890316	-0.02292633	-0.24225235	0.106317999	-0.007935524	-0.153668882	-0.9889369	-0.503644935
0.12824678	-0.055166245	-0.20333004	0.0906229	0.027729988	0.152237415	-0.34409237	-0.14314605	0.1441207	-0.065311193
0.3949933	-0.6771841	0.13117218	0.20903778	0.038793087	-0.091234924	0.33419514	-0.02685666	-0.25503635	0.432762145
0.21975946	0.31385803	0.042671204	-0.5986552	-0.18025255	-0.205209015	-0.038894414	0.001427175	-0.34824324	-0.016630173
-0.57568264	-0.8287697	0.17303276	0	0.330873	-0.30744362	-0.54876972	0.111088275	-0.25884295	-0.291636707
-0.50374126	-0.027833939	0	0.28097534	0.07369757	-0.028525831	0.39075565	0.240396975	0.1877613	0.071706295
-0.26788282	0.60345745	-0.25759506	-0.25262547	-0.39638186	-0.186361075	0.28210926	0.136909962	-0.38575125	0.239547968
-0.33535433	-0.24673176	-0.18813896	-0.15696049	-0.3570752	-0.167797805	-0.06677747	0.309001924	0.010705471	0.57327437
-0.16738796	-0.032266617	-0.040441513	0.23747253	0.12236881	-0.01437688	-0.01071644	-0.18335724	-0.41354465	-0.30195117