

Table S6. The degree value in the CTP network

SUID	AverageShortestPathLength	BetweennessCentrality	ClosenessCentrality	Degree	Eccentricity	IsSingleNode	name	NeighborhoodConnectivity	NumberOfDirectedEdges	PartnerOfMultiEdgedNodePairs	Radiality	selected	shared name	Stress	TopologicalCoefficient	type
5073	1.9010989	0.19415657	0.52601156	27	4	FALSE	Pathways in cancer	10.66666667	27	0	0.84981685	FALSE	Pathways in cancer	33464	0.20138889	Pathway
5057	2.0989011	0.04388331	0.47643979	21	3	FALSE	AKT1	12.52380952	21	0	0.81684982	FALSE	AKT1	15958	0.28809524	gene
5052	2.14285714	0.03342844	0.46666667	19	3	FALSE	PIK3CA	12.78947368	19	0	0.80952381	FALSE	PIK3CA	12838	0.29473684	gene
5050	2.14285714	0.03342844	0.46666667	19	3	FALSE	PIK3CB	12.78947368	19	0	0.80952381	FALSE	PIK3CB	12838	0.29473684	gene
5044	2.14285714	0.04049139	0.46666667	19	3	FALSE	PIK3R1	12.63157895	19	0	0.80952381	FALSE	PIK3R1	13374	0.29078947	gene
5017	2.16483516	0.03820171	0.46192893	19	4	FALSE	MAPK1	12.73684211	19	0	0.80586081	FALSE	MAPK1	13260	0.30094467	gene
5049	2.16483516	0.02855996	0.46192893	18	3	FALSE	PIK3CD	13.11111111	18	0	0.80586081	FALSE	PIK3CD	11432	0.30277778	gene
5075	2.25274725	0.06223521	0.44390244	17	4	FALSE	Lipid and atherosclerosis	11.94117647	17	0	0.79120879	FALSE	Lipid and atherosclerosis	14054	0.2605042	Pathway
5001	2.2967033	0.06037238	0.4354067	17	4	FALSE	TNF	8.88235294	17	0	0.78388278	FALSE	TNF	13960	0.22521008	gene
5046	2.45054945	0.03739997	0.40807175	16	4	FALSE	M30	12.0625	16	0	0.75824176	FALSE	M30	9578	0.32536765	mol
5076	2.31868132	0.05703506	0.43127962	15	4	FALSE	Chemical carcinogenesis - reactive oxygen species	13	15	0	0.78021978	FALSE	Chemical carcinogenesis - reactive oxygen species	12980	0.29268293	Pathway
6288	2.31868132	0.02869316	0.43127962	15	4	FALSE	Proteoglycans in cancer	14.93333333	15	0	0.78021978	FALSE	Proteoglycans in cancer	9982	0.3398374	Pathway
5008	2.31868132	0.05314861	0.43127962	15	5	FALSE	IGF1	10.13333333	15	0	0.78021978	FALSE	IGF1	11552	0.24684685	gene
5000	2.31868132	0.06438147	0.43127962	15	4	FALSE	GSTM1	7.8	15	0	0.78021978	FALSE	GSTM1	12248	0.18888889	gene
5077	2.38461538	0.02839644	0.41935484	14	4	FALSE	PI3K-Akt signaling pathway	13.71428571	14	0	0.76923077	FALSE	PI3K-Akt signaling	8228	0.32600733	Pathway
5093	2.47252747	0.03157314	0.40444444	13	4	FALSE	Human cytomegalovirus infection	14.46153846	13	0	0.75457875	FALSE	Human cytomegalovirus infection	9356	0.37393162	Pathway
5048	2.36263736	0.01507616	0.42325581	13	4	FALSE	MTOR	12.69230769	13	0	0.77289377	FALSE	MTOR	5822	0.32478632	gene
5002	2.34065934	0.04756427	0.42723005	13	4	FALSE	IL2	8.61538462	13	0	0.77655678	FALSE	IL2	9384	0.20582121	gene
6291	2.51648352	0.01776245	0.39737991	12	4	FALSE	Hepatocellular carcinoma	14.75	12	0	0.74725275	FALSE	Hepatocellular carcinoma	5926	0.39285714	Pathway
5081	2.49450549	0.01534127	0.40088106	12	4	FALSE	TNF signaling pathway	14.75	12	0	0.75091575	FALSE	TNF signaling pathway	5618	0.38194444	Pathway
5080	2.47252747	0.02366777	0.40444444	12	4	FALSE	C-type lectin receptor signaling pathway	14.66666667	12	0	0.75457875	FALSE	C-type lectin receptor signaling	7248	0.36936937	Pathway
5079	2.53846154	0.01545994	0.39393939	12	4	FALSE	Endocrine resistance	15.33333333	12	0	0.74358974	FALSE	Endocrine resistance	5374	0.42156863	Pathway
5032	2.34065934	0.01734758	0.42723005	12	4	FALSE	MAPK14	12.16666667	12	0	0.77655678	FALSE	MAPK14	5306	0.29385965	gene
5016	2.34065934	0.02375172	0.42723005	12	4	FALSE	CASP3	12.41666667	12	0	0.77655678	FALSE	CASP3	7192	0.3004386	gene
5105	2.45054945	0.02154293	0.40807175	11	4	FALSE	MAPK signaling pathway	12.63636364	11	0	0.75824176	FALSE	MAPK signaling pathway	5650	0.2983683	Pathway
6294	2.51648352	0.0092623	0.39737991	11	4	FALSE	Hepatitis B	16.09090909	11	0	0.74725275	FALSE	Hepatitis B	3674	0.41919192	Pathway
6293	2.67032967	0.01995131	0.3744856	11	4	FALSE	Phospholipase D signaling pathway	13.54545455	11	0	0.72161172	FALSE	Phospholipase D signaling	4350	0.43260188	Pathway
6292	2.58241758	0.01022926	0.38723404	11	4	FALSE	FoxO signaling pathway	15.36363636	11	0	0.73626374	FALSE	FoxO signaling pathway	3546	0.43526171	Pathway
5055	2.38461538	0.00960703	0.41935484	11	4	FALSE	BRAF	13.54545455	11	0	0.76923077	FALSE	BRAF	3860	0.33906634	gene
5015	2.42857143	0.05615364	0.41176471	11	5	FALSE	ESR1	8.72727273	11	0	0.76190476	FALSE	ESR1	9362	0.21464646	gene
4998	2.36263736	0.03178825	0.42325581	11	4	FALSE	HGF	11.18181818	11	0	0.77289377	FALSE	HGF	7638	0.26794258	gene

6290	2.69230769	0.0048808	0.37142857	10	4	FALSE	EGFR tyrosine kinase inhibitor resistance	16.5	10	0	0.71794872	FALSE	EGFR tyrosine kinase inhibitor resistance	2222	0.53448276	Pathway
6289	2.64835165	0.01584185	0.37759336	10	4	FALSE	Longevity regulating pathway - multiple species	14.5	10	0	0.72527473	FALSE	Longevity regulating pathway - multiple species	4608	0.43548387	Pathway
4997	2.40659341	0.039355	0.41552511	10	4	FALSE	CDK2	10.6	10	0	0.76556777	FALSE	CDK2	7258	0.25945946	gene
6296	2.73626374	0.01111077	0.36546185	9	4	FALSE	AMPK signaling pathway	14.66666667	9	0	0.71062271	FALSE	AMPK signaling pathway	3124	0.48809524	Pathway
6295	2.58241758	0.01486929	0.38723404	9	4	FALSE	Toxoplasmosis	11.66666667	9	0	0.73626374	FALSE	Toxoplasmosis	3698	0.3047619	Pathway
5107	2.78021978	0.00279716	0.35968379	9	4	FALSE	mTOR signaling pathway	17.11111111	9	0	0.7032967	FALSE	mTOR signaling pathway	1362	0.61965812	Pathway
5012	2.69230769	0.02738434	0.37142857	9	5	FALSE	HSPA1A	7.22222222	9	0	0.71794872	FALSE	HSPA1A	5388	0.23045267	gene
5004	2.47252747	0.0160781	0.40444444	9	5	FALSE	PTGS2	11	9	0	0.75457875	FALSE	PTGS2	4446	0.27777778	gene
4999	2.56043956	0.01844038	0.39055794	9	5	FALSE	GSTM2	9.66666667	9	0	0.73992674	FALSE	GSTM2	4804	0.27083333	gene
7056	2.62637363	0.02528937	0.38075314	9	4	FALSE	C42	6.44444444	9	0	0.72893773	FALSE	C42	3130	0.16498316	mol
4995	2.67032967	0.03296981	0.3744856	8	5	FALSE	CCL5	9.5	8	0	0.72161172	FALSE	CCL5	7426	0.28333333	gene
5006	2.49450549	0.01287147	0.40088106	8	4	FALSE	M10	11.25	8	0	0.75091575	FALSE	M10	3004	0.25625	mol
5019	2.58241758	0.01963945	0.38723404	8	4	FALSE	M15	10.625	8	0	0.73626374	FALSE	M15	3420	0.26736111	mol
5029	2.51648352	0.02612091	0.39737991	8	4	FALSE	M24	8	8	0	0.74725275	FALSE	M24	3182	0.17948718	mol
5106	2.78021978	0.00790062	0.35968379	7	4	FALSE	HIF-1 signaling pathway	13.85714286	7	0	0.7032967	FALSE	HIF-1 signaling pathway	2218	0.45918367	Pathway
5065	2.62637363	0.01899778	0.38075314	7	5	FALSE	MMP2	10.28571429	7	0	0.72893773	FALSE	MMP2	3778	0.29017857	gene
5020	2.64835165	0.01617936	0.37759336	7	4	FALSE	CBR1	7.28571429	7	0	0.72527473	FALSE	CBR1	2674	0.21674877	gene
5011	2.67032967	0.0222478	0.3744856	7	4	FALSE	PTPN1	6.42857143	7	0	0.72161172	FALSE	PTPN1	3186	0.19387755	gene
5018	2.6043956	0.01071723	0.38396624	7	4	FALSE	M13	12	7	0	0.73260073	FALSE	M13	2358	0.30555556	mol
5037	2.82417582	0.00758378	0.3540856	6	5	FALSE	HSPA1B	9.16666667	6	0	0.6959707	FALSE	HSPA1B	1846	0.32666667	gene
5031	2.58241758	0.04818725	0.38723404	6	5	FALSE	F2	8.83333333	6	0	0.73626374	FALSE	F2	4740	0.23039216	gene
5022	2.51648352	0.01679916	0.39737991	6	4	FALSE	MMP1	11.66666667	6	0	0.74725275	FALSE	MMP1	3184	0.2962963	gene
5009	2.51648352	0.00610022	0.39737991	6	4	FALSE	KIT	13.16666667	6	0	0.74725275	FALSE	KIT	1946	0.33796296	gene
5007	2.67032967	0.00629769	0.3744856	6	5	FALSE	SOD2	11	6	0	0.72161172	FALSE	SOD2	1748	0.33333333	gene
4996	2.62637363	0.00702628	0.38075314	6	4	FALSE	M5	12.5	6	0	0.72893773	FALSE	M5	1630	0.31944444	mol
5005	2.64835165	0.00894085	0.37759336	6	4	FALSE	M9	12.16666667	6	0	0.72527473	FALSE	M9	1962	0.31904762	mol
5053	2.71428571	0.00361442	0.36842105	5	5	FALSE	SYK	12.4	5	0	0.71428571	FALSE	SYK	1162	0.38	gene
5038	2.58241758	0.00620112	0.38723404	5	4	FALSE	NOS2	12.8	5	0	0.73626374	FALSE	NOS2	1680	0.34705882	gene
5034	2.91208791	0.00688587	0.34339623	5	5	FALSE	PFKFB3	7.2	5	0	0.68131868	FALSE	PFKFB3	1252	0.28181818	gene
5026	2.91208791	0.01172885	0.34339623	5	5	FALSE	CASP1	7.4	5	0	0.68131868	FALSE	CASP1	1694	0.27826087	gene
5040	2.78021978	0.00680076	0.35968379	5	4	FALSE	M26	9.8	5	0	0.7032967	FALSE	M26	1144	0.29333333	mol
5062	2.82417582	0.00848178	0.3540856	5	4	FALSE	P3	9.8	5	0	0.6959707	FALSE	P3	1150	0.31428571	mol
5003	2.8021978	0.00307376	0.35686275	5	4	FALSE	M6	12.6	5	0	0.6996337	FALSE	M6	906	0.4	mol
5014	2.71428571	0.00427989	0.36842105	5	4	FALSE	M12	13.2	5	0	0.71428571	FALSE	M12	1292	0.36969697	mol
5036	2.82417582	0.00739246	0.3540856	5	4	FALSE	M25	9.2	5	0	0.6959707	FALSE	M25	1244	0.29285714	mol
5051	2.86813187	0.00126386	0.348659	4	5	FALSE	PIK3CG	12.5	4	0	0.68864469	FALSE	PIK3CG	432	0.47916667	gene
5047	2.58241758	0.00161309	0.38723404	4	4	FALSE	CASP7	18	4	0	0.73626374	FALSE	CASP7	738	0.48571429	gene
5043	2.73626374	0.00699219	0.36546185	4	4	FALSE	M29	11.75	4	0	0.71062271	FALSE	M29	1406	0.32575758	mol
7058	2.89010989	0.00568674	0.3460076	4	5	FALSE	C30	9.5	4	0	0.68498168	FALSE	C30	866	0.31481481	mol
5074	2.62637363	0.00131612	0.38075314	3	4	FALSE	PPARG	17.66666667	3	0	0.72893773	FALSE	PPARG	538	0.49019608	gene
5030	2.73626374	0.00170843	0.36546185	3	5	FALSE	GSTP1	15.66666667	3	0	0.71062271	FALSE	GSTP1	460	0.48888889	gene
5041	3.04395604	0.00291317	0.32851986	3	4	FALSE	M27	8.33333333	3	0	0.65934066	FALSE	M27	434	0.36666667	mol
5058	3.10989011	0.00210291	0.32155477	3	4	FALSE	M31	8.66666667	3	0	0.64835165	FALSE	M31	382	0.45098039	mol
5059	3.15384615	0.00172066	0.31707317	3	5	FALSE	M32	8.33333333	3	0	0.64102564	FALSE	M32	336	0.43137255	mol
7057	3.02197802	0.00227276	0.33090909	3	5	FALSE	C31	9.66666667	3	0	0.66300366	FALSE	C31	364	0.39393939	mol
7060	3.1978022	0.00131987	0.31271478	3	5	FALSE	C24	6.66666667	3	0	0.63369963	FALSE	C24	174	0.4047619	mol

7062	2.95604396	0.00198024	0.33828996	3	4	FALSE	C13	10	3	0	0.67399267	FALSE	C13	356	0.375	mol
5024	2.95604396	0.00239041	0.33828996	3	5	FALSE	M18	13	3	0	0.67399267	FALSE	M18	490	0.48	mol
5067	2.78021978	9.06E-04	0.35968379	2	5	FALSE	AR	18	2	0	0.7032967	FALSE	AR	284	0.56666667	gene
5066	3.04395604	6.35E-04	0.32851986	2	5	FALSE	AHR	12	2	0	0.65934066	FALSE	AHR	214	0.52380952	gene
7059	2.86813187	0.00223522	0.348659	2	5	FALSE	PPARD	15	2	0	0.68864469	FALSE	PPARD	400	0.53846154	gene
5045	3.28571429	4.20E-04	0.30434783	2	5	FALSE	TAP1	8.5	2	0	0.61904762	FALSE	TAP1	86	0.53571429	gene
5042	3.17582418	7.62E-04	0.31487889	2	5	FALSE	M28	10	2	0	0.63736264	FALSE	M28	162	0.52941176	mol
5010	3.35164835	7.68E-04	0.29836066	2	5	FALSE	M11	8	2	0	0.60805861	FALSE	M11	104	0.53846154	mol
5021	3.15384615	4.98E-04	0.31707317	2	5	FALSE	M16	10.5	2	0	0.64102564	FALSE	M16	72	0.55882353	mol
5025	3.24175824	9.30E-04	0.30847458	2	5	FALSE	M20	7.5	2	0	0.62637363	FALSE	M20	144	0.5	mol
5027	3.28571429	1.42E-04	0.30434783	2	5	FALSE	M23	12	2	0	0.61904762	FALSE	M23	30	0.78571429	mol
4994	3.65934066	0	0.27327327	1	6	FALSE	M2	8	1	0	0.55677656	FALSE	M2	0	0	mol
5060	3.57142857	0	0.28	1	6	FALSE	P1	6	1	0	0.57142857	FALSE	P1	0	0	mol
5061	3.41758242	0	0.2926045	1	6	FALSE	P2	11	1	0	0.5970696	FALSE	P2	0	0	mol
5063	3.57142857	0	0.28	1	6	FALSE	P4	6	1	0	0.57142857	FALSE	P4	0	0	mol