

SYMBOL	Tumour_X1.2.AVG_Signal	Tumour_X2.AVG_Signal	Tumour_X3.AVG_Signal	Tumour_X4.AVG_Signal	Tumour_X5.AVG_Signal	Tumour_X6.AVG_Signal	Tumour_X7.AVG_Signal	Tumour_X8.AVG_Signal	Tumour_X2.2.AVG_Signal	Normal_X10.AVG_Signal	Normal_X11.AVG_Signal	Normal_X12.AVG_Signal
7A5	42.2455707947223	37.2810767789306	39.6451483836089	35.314469458379	36.08956004634	37.9951997351435	36.9355798143571	36.3405039629059	35.6139301508335	36.4651112441576	41.0808257270221	42.1537476443423
A1BG	41.5421429082231	45.6948619492056	44.5134109184888	41.4727452533295	45.6895223823001	41.554942319225	40.8681871019812	43.0390857698452	45.2421183842044	42.2614524730856	41.7627910693483	46.4952206446229
A1CF	45.3872406432794	50.4872122867759	42.6981470312295	40.2427205947092	40.7176735294868	40.800866389165	42.7431359850339	41.599960574499	38.2795150354677	38.9271399577966	41.1367478979484	40.4639532172338
A26A1	41.483412492426	41.8848959280916	43.8153459269057	44.7401523707775	40.8873907150245	43.3269087731399	42.9803717121865	44.5658219748173	38.0213051227859	39.6719190054379	41.7272875295469	43.1805016690297
A26B1	40.0557788909923	35.9305494063137	44.9758339877851	38.3166554965434	38.9496515344837	43.1826328292558	40.1235656101329	44.0390019242862	38.9834959368496	43.1839109702714	37.6484782516569	39.1553169409075
A26C1B	45.3872406432794	40.148780650831	43.7630587657205		49.1786207920603	45.1137938810047	39.7394181011603	46.8613212048981	42.357910063876	40.4997186069494	43.9450023643394	42.5426057453993
	45.8546719310325											
A26C3	44.6231541342	41.5061991514748	44.7829632472754	48.7860245405122	46.2560238004757	44.8142634024197	45.8204185866107	44.0687697278114	50.9493788151501	46.0119912782855	42.2455707947223	45.3763275588341
A2BP1	40.018129854	41.433180957815	38.741573807882	39.2336402665402	39.8278057109141	39.1685416657025	41.2927600802729	37.3925854497082	36.4747777548802	42.447226754834	42.4580504587581	40.8277078176464
A2M	239.023368693467	227.567182783564	313.233036704221	270.202959012185	182.06733830953	396.167219131922	57.8870110456492	608.886783362316	56.7991853808475	369.717462266442	448.923538083456	300.412043023998
A2ML1	193.262615637464	45.1694246393676	45.8844325913247	44.1483976313959	43.004943518025	40.650742261428	199.404836798715	170.475212920685	81.7566533443175	48.8623729374733	58.7389869173495	43.3744503319109
A3GALT2	37.1485601150873	39.3667161654772	38.35720098134		37.8129870676592	41.3387790895716	40.5281496800812	43.9450023643394	39.0620487644635	40.8420925848403	39.8455060654531	39.7576136507593
	41.9083581529276											
A4GNT	33.2552842693684	41.7337506166619	40.4070046183108	32.9046688061235	36.8059561571675	44.6524308640784	37.0564573649223	41.0381860307445	42.5406888281114	40.6022003765153	38.5668610487033	48.1627097465883
AAAS	66.6547247910487	60.3093790894864	54.6820069269589	63.6334154351075	65.0605897122361	58.7404123614695	68.2708120569221	74.383456365584	71.787754116845	71.5032996449402	64.2174369755376	57.0524725494273
AACS	91.6826894933058	86.4898752526885	91.8533850418261	61.2213001749372	80.7321212028516	64.7905331739366	113.322929203297	78.9900928241723	145.607100979838	74.2379710965903	82.5225075943931	66.8026147385682
AACSL	42.1537476443423	41.159706131351	36.769073068743	49.9014504704021	38.9496515344837	43.4681646416585	44.4639405506967	44.9977782988116	36.5393857306744	41.5435611403119	42.8263096141654	42.1537476443423

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ABCA4 69.3418521417182 66.0147097736612 70.9377012403023 71.5249259772583  
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	39.3592387366314	40.4488698263442	41.6336636285875	39.6938066205531
ABCC8	39.5676051939342	34.7135536792489	41.6079958749402	38.6414316877471
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ABCC9	43.3085358214154	42.7303139017786	40.8860076320216	40.9157352260901
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	41.3481355128089	44.3046896365956	44.4688999098904	42.6758568421347
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	71.1894129030602	94.8742116922003	84.607833108004	62.8485724004124
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	37.8343741244069	40.4359177791566	38.7337086062875	39.7509165247419
	41.863927676552	37.920964499903	43.9802831041664	39.5748670524951
ABCD3	78.8357122967692	87.1434190022564	83.8679756709676	62.3936376596431
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	41.4435352858263	44.619512785899	42.5864346233886	41.40680865944
ABCE1	120.96329303892	257.050603883498	176.785214225094	144.427680369554
	374.427492246826	187.422036538629	144.711001798454	183.887843429281
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ABCF1	572.19538884395	370.027120412227	373.802562320876	364.962649416567
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	83.8679756709676	106.317388820963	80.4895102121889	72.5346469941833
ABCG1	49.4878464533902	55.6904617926772	89.6115806694241	71.4473248804357
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	40.4359177791566	43.3332476888305	42.2577689927563	37.0564573649223
	43.1567024035183	44.0519245668737	51.4454142248566	50.0303076717704
	41.2437378488025			
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	67.0163226819964	112.039388952208	66.6118713143653	45.1151758109609
	84.6158251687884	52.6879797806876	56.8436081694537	78.1623301184313
ACOT4	252.170412162149	43.9421822132391	53.2046867327331	103.961956810572
	117.260454792593	59.0686629877982	139.177720567217	60.419911425109
	157.334378544568	55.6069214673486	57.7786197537899	66.6118713143653
ACOT6	45.7356815244513	47.087835967892	39.4710743516517	40.9607305725196
	36.6354013629791	38.5252456306656	39.3585350448719	38.6454098044474
	38.0213051227859	44.4652605017595	32.9879066304034	38.3291713594599
ACOT7	132.3192754634	102.706563820232	85.4960014582244	113.026772174726
	106.049736669661	89.6115806694241	159.485978728	226.804294585045
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	54.4586176399381	52.2089306840125	77.9028721785469	57.9713749600418
	75.4572860692649	47.8207974930031	62.105802634526	60.5948704279864
ACOT9	93.2557602398938	70.5534237141767	77.2048580540589	157.095926797414
	76.8393340617473	122.099297248392	97.4515987591398	87.275548276476
	72.0334593545916	62.4530276414691	63.8294437579951	96.3232257371077
ACOX1	53.8184424596644	73.1640951333742	76.4116336410131	52.8502823653368
	64.0752803796842	53.3185097662527	67.0455170947389	99.5192591352063
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ACOX2	70.3757673501097	48.9899488302637	46.2625470410195	80.5537984388921
	50.8875036861067	300.121875447445	36.5352572191451	54.0507720792049
	41.4636047919453	158.853244260329	135.012695962236	116.475941571644
ACOX3	124.22494803053	225.794026573235	269.284584971871	150.082905944963
	177.620987812591	147.557451530784	344.133384411423	190.61997068475
	198.497745548245	188.533240079423	238.893145911331	156.311985997533
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	45.4751076037511	36.0306975524309	50.5252048155459	59.8760452220989
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	134.152059562322	106.219480656782	144.928534157065	116.434267173815
ACP5	141.649461526745	115.519896726673	79.7733480606334	794.806085783439
	97.1271615802556	85.0275638433103	110.589130460258	139.177720567217
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ACP6	71.1521292570086	132.946528291039	239.385229462309	80.5537984388921
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ACSL5	94.3674661847143	251.4927207704	218.917221711155	138.401109242778
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	41.1486675205552	39.9718514851461	39.6158343667921	41.989786971805
	40.741722894262	38.5782171290591	41.9908237694988	38.5279745308203
ACSM1	45.2875173643252	38.4330755397458	35.3649449469275	36.9912468186322
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	41.863927676552	41.5435611403119	41.9908237694988	38.9496515344837
ACSM2A	31.8228237796461	37.6383530120621	37.5597671487621	
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ACSM5	41.1523487516364	43.1560065801875	42.157627240486	44.8813851439455
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ACSS2	167.16650846037	152.132756414024	181.2179249806	252.649651285136
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ACTA1	81.8104679118753	44.0409178714232	43.5710871617107	42.6913548400127
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ACTG1	8545.48005557056	13656.2581082905	9488.06491634484	6819.74871209328
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	40.8873907150245	39.3565586789274	41.0381860307445	45.4757965005055
	39.7537274655115	38.8507804383261	39.5792604499113	40.7704587752083
ADH5	47.3791873993182	46.4385386401326	34.1806289878747	37.0732977341185
	53.3086645804786	95.0026207727863	47.2927436772465	42.9301944191913
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	44.5668141895992	44.0804700754786	62.9165938167938	43.1567024035183
	42.6366765186182	43.401782064778	44.553780984244	40.5703581862752
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AGBL2	41.2424637338424	41.8848959280916	51.0539624358342	40.5484717678957
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AP4E1	107.637618676176	110.559251404688	91.0443726041992	130.10148014895
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AQP7	39.4710743516517	39.2907645923217	44.3344900481112	39.2780515621926
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	43.1252272136667	40.7616966228404	41.1507980856436	41.1575777497576
	35.6139301508335	42.8936990772838	43.0971787292711	42.1537476443423
ARL11	41.2424637338424	41.9894412416874	37.4642807402741	39.853175885492
	39.859345745831	40.040778349137	48.1747307200218	38.956280281655
	37.7384958256497	39.4710743516517	40.1742127891824	39.0536056496869
ARL13A	38.8561375693335	41.8073910693411	42.4580504587581	
	46.8954576545929	39.2608760193011	39.4953494583071	40.4359177791566
	38.1835938174625	45.5779686360641	45.2556760873335	42.8263096141654
	37.9607839934735			
ARL13B	41.1523487516364	40.4359177791566	40.439898672334	
	39.853175885492	43.2907292669418	37.1894304543751	36.08956004634
	37.3875631460917	39.4762546236449	40.3235655331796	39.3667161654772
	44.2527566343661			
ARL14	155.928417606775	195.968119243879	87.3634135323569	67.7121534934164
	77.9085946827079	50.3245489035833	51.7714254834195	228.907776306695
	92.3388129097482	167.578081645481	130.048910817957	88.3636380348802
ARL15	49.4786466722535	48.551327455445	49.7827734675743	52.9156540211793
	48.0234896130991	49.8472708021525	43.6025443656008	50.7364620410977
	50.1603795873336	49.1928206164702	50.0564735608363	52.0359304386476
ARL16	511.792908607692	315.186937216422	356.079406408042	411.981987305512
	294.090159716249	267.107863045114	412.694325761831	828.403901345618
	291.232601825013	515.856807472321	813.242005949542	675.079525434102
ARL17P1	61.7551416187554	98.0023132593711	66.0411740221276	
	117.699959435983	161.890859629246	55.1987351219665	65.644767142472
	79.9597944271831	61.8824218975538	87.9871827215149	67.0361353184222
	147.137598111239			
ARL2	519.563402444472	421.146145642412	406.104588997462	348.551545320445
	935.815928529014	925.486088550061	783.440408023061	448.508714709248
	410.329983506955	900.517711546397	855.602941621804	818.290793784784
ARL2BP	472.982369155078	380.541502795438	448.290058854438	
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	269.857104259782	418.927102569912	433.194113859912	392.622487173359
	410.716248834784			
ARL3	56.2508140932179	65.5367689605146	47.7737810047679	46.614092935749
	56.2305155589239	101.693848821246	61.6544855697851	54.3820590274321
	56.6079099547057	75.0665411373616	74.7669841575348	71.5327770882433
ARL4A	55.4590083528414	48.2220547806679	56.2843540044585	90.6347108049639
	48.7664156229426	63.2804984998739	46.6318564520584	47.4740726032707
	57.8772482723463	61.3919023984003	54.9765783642973	61.5300817099814
ARL4C	55.5276281380084	40.148780650831	38.6005272730664	66.4047895961325
	40.148780650831	47.0027453663546	44.2166118829877	40.3357777530419
	45.4799270968969	45.7911932481722	47.8284278211109	45.4799270968969
ARL4D	51.1740855632044	49.9085372049438	69.11736279512	40.9607305725196
	62.046151104685	62.7515429046888	44.8643898647322	58.2043532960091
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ARL5A	329.763197973922	405.148979342648	322.509777895373	546.80979198725
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ARL5B	65.2295773603116	67.3779879510397	67.235655687817	155.564141715819
	66.5187917407182	66.4568741702152	102.711934290382	92.227126770051
	71.7408778060956	48.9826868640753	51.0013344286851	60.4872675915085
ARL5C	44.7044140979108	43.683792219729	41.785676764591	40.646702696033
	42.9090346219023	45.0882356578404	43.6753843488695	40.3357777530419
	40.4220196471124	40.8049408996274	44.4688999098904	41.863927676552
ARL6	38.0089018744739	40.0527893189096	39.5118967430322	44.3440839686558
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	136.081259669601			
ARL8A	40.3478825593224	37.4540772310118	38.3166554965434	41.7614975630362
	41.6806984441849	39.0266821712099	39.1539892144371	40.6171774724171
	42.7150227340364	40.8049408996274	39.5399188536544	37.8490162439785
ARL8B	296.664472126617	246.313146942736	255.915599666591	308.280127837858
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ARL9	45.5758521267508	93.6717518147993	45.989212296035	43.074472921841
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	69.4009439491061	47.7180816682562	43.3085358214154	42.1537476443423
ARMC1	158.862722884436	181.844123841452	117.689172019617	134.394743648475
	171.073367662623	193.262615637464	155.018308238778	156.220155161711
	145.676955166566	148.570371099987	164.847648206552	148.944852825695
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	194.951677338012	277.588692595406	100.499763255098	135.757061334489
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ARMC2	42.1537476443423	41.554942319225	39.6833800000587	43.0016969050339
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	38.7578265341627	38.9207612933107	42.0750889188255	44.5432192783161
ARMC4	39.5676051939342	39.9697332660833	38.7745734037492	33.6816578730693
	40.5710637884029	70.1074782747874	36.5352572191451	46.1673159982664
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ARMC5	44.9896851005259	56.9312835667828	47.2055133646385	43.1847628331565
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ARMC6 59.046385957117 72.4325984501758 78.8357122967692 62.3936376596431  
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38.9006788676407 39.1621898366355 43.0971787292711 47.3172462673426



ART3	38.5648843914189	41.554942319225	41.0356368374708	43.1847628331565
	38.3561682218911	48.5835484742456	38.4005795891396	39.5466975353131
	42.7150227340364	47.4767851750188	41.2598458726002	40.3691324547049
ART4	50.379587451669	42.5269793679335	49.7350276169552	39.5050383901884
	41.0885562160946	52.6226745117396	46.3057385979341	45.4757965005055
	48.8842909466002	57.4665857273093	50.7903824729818	47.3172462673426
ART5	39.9697332660833	43.4396866157171	39.7411455670172	37.8129870676592
	47.5647821785529	40.650742261428	38.8417151851134	40.1474543172332
	37.7805366040928	41.7932258301997	49.0361180089431	42.6758568421347
ARTN	47.9796120205361	47.5203201376024	39.5450079747895	40.5829008199411
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ASAH1	55.7246872330059	69.0663624160288	78.7103847663605	80.8728961146267
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	42.7475279082279	43.9421822132391	44.0687697278114	42.4580504587581
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ASB10	38.8561375693335	46.8236022402545	44.5134109184888	42.5664883002833
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	55.3122077514658	46.0119912782855	43.0016969050339	42.357910063876
ASB11	39.8662795144616	44.0409178714232	39.4987030972173	44.7210190486327
	39.9697332660833	39.673290670647	43.0177448037924	39.0102066700839
	41.0522938990031	41.9666541498638	40.547835538778	44.7857390222342
ASB12	41.9407041937973	39.2907645923217	51.6159542017038	43.5627649099623
	36.8059561571675	45.1873487463472	42.629412460409	41.3506832276112
	42.4540072551568	56.057906531592	53.8260140375214	50.0571060701893
ASB13	101.448989278761	224.509915754308	168.522052983892	97.0813208326187
	277.284338888467	149.076166432567	141.572530741416	126.10194284238
	206.190699642477	241.792833275833	194.046072415847	165.311139930529
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	41.7929491793697	36.1190722948669	36.634024014558	42.357910063876
	40.7847110517594	48.3693338695392	30.802355637173	40.3691324547049
ASB15	41.4508241771315	43.9421822132391	40.4882741869718	38.3166554965434
	39.5595233162192	43.9724628401189	40.5585676679482	45.1714698794331
	39.6609238036815	39.9948390976317	40.8225507267584	41.4508241771315
ASB16	37.0320432433314	46.0713306971594	39.0775870687758	85.7983996395757
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	43.0930293831497	46.325232414659	39.7342718293432	39.9519547348106
ASB17	40.6062943725118	39.0894172982439	40.0557788909923	39.4569929845912
	42.4864576619427	40.1428591998404	38.2280071951674	39.6474008369935
	36.5393857306744	41.5804111566887	38.956280281655	38.3834435509221
ASB2	43.844855336215	43.8495248991589	43.0016969050339	53.9517841438975
	40.9950639693255	58.8605811695948	44.6032218589199	45.2806199505029
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	35.5833299694641	43.2219358930127	39.9620349773712	38.9229928131225
	39.3435164409386	45.4953384153622	41.4918397757335	40.8254641406268
ASB5	42.9641759692926	34.9262464079777	32.9756367838345	37.1894304543751
	36.3853022034874	160.080366694799	37.8877750141557	41.4508241771315
	37.1820543575123	107.987729161223	75.6883778954949	183.77850568836
ASB6	65.8959431201418	67.0402749076279	51.3268475761593	59.5177293266879
	53.207589413582	60.8357760968871	84.1327646296491	64.0752803796842
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ASB7	46.2190348814788	46.9670128044811	42.9734677356549	41.5464765641928
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ASB8	89.9580440276828	80.0502531022254	79.7733480606334	73.7986685173579
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ASB9	56.8534370691413	41.6466169548846	48.4890615340603	46.9919960628953
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	86.7823828209946	189.137593177772	103.569150754726	170.87055409699
	148.514056973195	177.379924616924	88.4385631861141	94.5111909776371
	85.9286114777649			
ATAD3B	48.5835484742456	53.3683962805281	57.0427273538849	
	43.1847628331565	75.4652763126449	50.6360662655392	56.4809146784765
	45.7476095696859	62.0272989884264	38.745552403895	52.1788489555942
	46.2625470410195			
ATAD3C	45.6517320730042	39.8695929627783	40.931294690669	
	46.0228732507872	47.4548471240051	51.702461863489	46.9929836306816
	45.5581356216957	41.9635525160083	43.401782064778	43.0971787292711
	48.0350549043063			
ATAD4	284.013140015092	128.70380102034	137.424708183613	73.7124988616836
	110.869341159607	80.3805507705979	234.172977976583	139.645717741863
	221.71759246183	112.760972238512	123.032006903803	83.9236799134394
ATAD5	41.1523487516364	39.6123051184545	40.301483914446	42.1273928203021
	43.844855336215	43.7630587657205	43.3262148375525	37.0390589468421
	37.7384958256497	40.5090849993014	41.2598458726002	38.6454098044474
ATCAY	41.7397731376692	44.8529259387308	38.6005272730664	43.9282059368202
	44.2607789091176	42.750861693377	36.7356360093603	42.4580504587581
	45.4799270968969	40.8970401536578	41.0808257270221	40.3691324547049
ATE1	40.1909200785004	58.2924877745079	49.5424425850549	48.0673507506626
	46.9058511192313	50.1663232705412	43.1931731665131	44.293922970134
	44.2237010679985	49.7259371799014	46.8954576545929	49.2064066614865
ATF1	47.4678477186801	44.7829632472754	57.1226931773006	49.3654837541353
	38.3561682218911	44.9896851005259	48.8319884367456	48.7814131120945
	57.4777075615651	49.4006068471301	46.0095710163378	53.3904307221902
ATF2	64.1882546112044	58.2571968311834	81.1249338842464	74.8706881113318
	79.0039595317374	79.6895408438974	65.7873990226533	57.5640428227111
	72.5993974280876	53.5498255316009	60.3431719501866	84.5354986509039
ATF3	164.941191767024	728.257836227637	98.9988668602468	192.112101000423
	77.7852875052734	584.724083441601	303.139550962377	551.490493022416
	120.679433440203	152.679927202674	360.900649927623	164.96500173066
ATF4	626.390544175817	513.891389190131	548.047774435177	693.056793637199
	400.506633704584	834.14766574977	713.685405035516	751.953794043451
	636.137048640939	1377.24483375075	990.431472174705	1068.10627239579

ATF5	164.146682514925	236.910422092851	172.574996256912	354.634819362978
	249.308868215205	218.958199087236	155.855834721836	185.395460281034
	232.147792636393	135.973016473297	158.901175732866	125.383837024985
ATF6	188.042978085327	290.761706869722	386.787221140343	361.091144969609
	311.901423694475	232.740032714891	214.245832611737	177.379924616924
	254.239142284878	186.372887375058	211.654245727798	253.267901237295
ATF7	45.3872406432794	47.4076235350059	44.696023817801	42.2496337895968
	45.4751076037511	37.0180934800573	51.0013344286851	45.0972184964705
	43.4656637536244	38.745552403895	45.310660704531	40.3691324547049
ATF7IP	50.2203578628217	48.3699741879723	48.1997158668729	
	51.0175677516029	42.1650127805175	44.5544727111028	44.7255207589606
	42.0494116081998	46.4164127487052	38.528621456378	40.6373400186325
	46.4499258373233			
ATF7IP2	82.9467575626263	256.026804821501	338.475097952023	
	100.344513700137	177.82359682336	70.2553917409773	86.7968607218397
	153.901083585889	216.063990451376	403.243939813779	434.523449093691
	371.167168940365			
ATG10	100.057155418659	79.1432909353319	106.443777149496	124.490684428024
	66.5694839794116	111.691813916343	100.597578643877	128.70380102034
	81.3858672064773	128.291287011686	141.370796803908	104.860298453006
ATG12	238.647490689325	186.450759425396	206.481424743576	349.096725048776
	164.709142211696	217.189489936251	171.722423740869	429.725397949276
	135.043488274939	248.797398220982	273.645674189546	264.600870859012
ATG16L1	277.069127740648	161.65846687852	186.54041506387	
	176.492987902471	209.705575423447	221.972553229362	136.883475451494
	184.519582091623	191.59357986481	200.958421322871	225.760096749053
	201.208357379329			
ATG16L2	70.6065558064758	69.734208465775	133.893108529325	
	145.526972410673	96.0418367475772	85.5027511448958	109.901105821696
	68.3372228877569	67.6983931011126	157.312247745825	116.080897948094
	111.227016020927			
ATG2A	97.8141040140486	159.835690229505	180.844663304872	267.024267633341
	229.792906003602	129.675613712326	164.580141651883	134.185571685143
	127.863441809606	139.45393201022	129.236597599908	83.3729277601518
ATG2B	57.934905173625	55.5294887653184	62.9313387640547	82.2766822827861
	58.6481644777552	56.4819802857598	61.5000955267432	63.0748373122119
	71.9062462001972	55.6865353018811	68.3157692917711	66.2305843819029
ATG3	142.309369995384	204.68542226859	233.692490031492	535.585999498708
	241.455752070163	244.089971761037	221.598637828404	165.905008152959
	223.040734249612	122.099297248392	112.721024337362	157.639656300073
ATG4A	61.4416707689893	59.2643906275025	76.474194677956	83.877343750194
	68.8362790228976	66.7278011183421	56.9320717885002	69.845169494661
	86.9274372004388	59.0630473216622	63.4610447573417	53.7820518773759
ATG4B	90.1056480599534	103.289476128549	118.251739134889	62.6048727240291
	94.7604013126314	82.1974756449763	90.2915974511786	65.6914955077809
	104.17651993553	43.4885245598939	52.022479439889	64.4156641487994
ATG4C	72.0334593545916	63.4570909617664	61.8701572127817	92.084526929319
	72.0482026084702	77.6574950328663	66.1940959364976	57.037639245179
	84.4111182389028	56.284748518655	60.7516146716018	68.3234331335073
ATG4D	49.7827734675743	70.9970523709176	57.6371756925687	42.2496337895968
	62.7488501311848	51.3886035574416	48.9088046212958	50.0802438185974
	66.7357366223349	53.2340637435567	61.7572675712557	54.7953298048942

ATG5	164.262531918679	72.1401612718245	85.8945498067934	81.6780581904253
	63.955655956484	107.440379066528	76.0041771381018	159.99819920335
	67.591570323687	138.637058021129	127.051878502711	128.098188757701
ATG7	356.826869112433	212.353676518748	225.960701908311	361.945511835039
	156.433762355183	175.876518898179	196.034087004464	345.084002073846
	128.923092916744	181.873969432903	186.301404367238	134.869029698594
ATG9A	136.613915120582	86.7823828209946	117.149897485203	99.126949393699
	127.908440924429	97.5962784863854	101.634888749356	97.3870880869036
	132.098298410135	135.169625016001	115.052948380817	95.6511488323697
ATG9B	47.0940613507321	42.0709558258414	44.0451487108213	46.0228732507872
	38.4540849632254	42.8598805316863	43.8206425661746	46.2779564481158
	59.7483827511172	40.1179210534118	41.9083581529276	47.0130468198828
ATHL1	143.084029849218	377.847116683974	294.849830545881	264.263104842911
	100.386011517899	85.0275638433103	87.0685571351947	91.3607028449916
	62.6386437936516	70.7003843117511	85.8277891453447	84.4349803529132
ATIC	929.862002014478	706.087945508248	710.579735673002	419.993482471924
	807.620534408416	479.079946537291	567.978225839768	879.708199333257
	659.126408705362	808.857027942253	801.351998609551	625.435083064752
ATL2	244.343381048643	107.176733647834	134.725028732282	111.522812019895
	163.028918580618	179.522572239758	245.960009147234	207.928770428477
	131.451150955309	86.9626166234066	98.9560329133205	122.368552598681
ATL3	245.691073028699	93.3718038663074	181.966839676473	267.70610731202
	180.255771684507	113.979504140326	184.269633116351	394.877241043728
	116.388069891158	142.846665249354	104.873452487222	170.184914156265
ATM	72.5559426064896	64.7318794662958	71.2867274976738	128.542999559673
	91.4786089554886	109.659686701319	60.4492532011622	59.9770720847728
	70.4933405598359	74.9236800269025	78.8741966117641	83.2240772671045
ATMIN	114.404099081799	72.5397346298724	79.8196996067124	57.9459232180399
	77.2007992738116	71.7585486695516	69.6301237585571	66.8364940429355
	95.5325488969517	59.8130420783374	91.6253858792439	66.9239565096247
ATN1	75.7140064167134	72.1090339831747	62.4317959077388	54.1240583139871
	68.6199296680241	88.5207664670319	91.4514026506253	89.3868257841517
	74.0831311663524	110.909109947659	99.6288131333575	81.382229980722
ATOH1	42.5193208629123	38.4330755397458	43.3085358214154	37.9875302985336
	33.6330903323612	38.7340969861754	47.7390230243778	45.1714698794331
	37.6383530120621	38.745552403895	33.9478220100351	38.8495095797881
ATOH7	39.266565827316	38.2835812177457	44.0451487108213	47.420942961753
	44.0451487108213	42.1046072075724	47.6810611485413	41.1575777497576
	40.2739700860114	39.528971131769	41.5668884168669	39.4830039788612
ATOH8	37.8386378737561	63.1780854659428	95.7820879892969	45.1944222548351
	70.4607501403122	51.3886035574416	54.0170817319522	47.4740726032707
	82.9256976863272	206.08791147394	222.8744321245	69.1099722732115
ATOX1	590.709061039001	268.745928429069	500.241231327789	785.79878416775
	391.397318564183	442.711822532078	404.356143472409	761.922486104216
	351.290929267326	604.357590751951	532.35007819883	562.531738167208
ATP10A	45.4799270968969	39.7835513496873	37.5597671487621	
	47.481302504066	37.1565984182084	39.8455060654531	48.9826868640753
	42.8482181313226	43.2761454096265	41.0057887014368	35.1470994647364
	37.7526485343328			
ATP10B	534.881442644054	137.696331574552	174.275409358652	
	53.9517841438975	45.2556760873335	43.9724628401189	71.8466937395628
	398.229956085523	53.7442594289333	49.8393069675192	51.524711857679
	49.0655215909632			

ATP10D 32.406093465115 44.5884811528117 41.528370959196  
44.1483976313959 42.269054475455 40.7616966228404 38.5066108855005  
37.0390589468421 47.798305839406 44.2580151149956 47.1477056711335  
44.7401523707775

ATP11A 38.1169703906207 37.3179578037963 40.5734458834617  
40.3180310664156 37.8679241954337 40.8970401536578 38.7337086062875  
39.8016018354453 39.6413313949444 36.6893251782922 35.5179217192467  
40.8098117292322

ATP11B 68.6627996695828 66.6332042895961 91.7844162703214  
86.500678864429 58.7460488758053 81.2314452281031 94.6952414258466  
86.033725825968 75.9298650598599 81.7967230859562 86.3054012048636  
97.8764110456132

ATP11C 49.7827734675743 55.4848084120513 54.0536858212253  
57.7057442885013 70.2565873027242 55.4409373780772 63.5738862549306  
74.2517888452553 70.7760293129408 59.9792284253187 66.5285423077808  
94.1844708285913

ATP12A 38.2083710281545 44.1239711172417 40.1985790927248  
35.6928955245309 41.3755760434934 48.0350549043063 42.8684958525042  
66.6320017520888 43.5669306063196 40.8049408996274 41.5421429082231  
42.4607795638552

ATP13A1 101.688066199665 132.307107503819 122.988056802699  
271.070078611015 172.349874473605 75.1674447943072 127.232160404726  
323.957165066178 140.586248661832 105.212030988223 113.612874206329  
97.6552689677199

ATP13A2 111.760213205992 111.071209057746 107.637618676176  
77.3864518736634 111.033548392096 61.2387559102636 124.803597244786  
134.952392466784 96.9051967257119 73.0394191668858 75.8976034525022  
78.4023698691285

ATP13A3 46.263826584899 49.015238049903 45.3974838013476  
59.0965219753805 45.402658694824 44.6524308640784 43.6025443656008  
43.9604529016594 39.7537274655115 39.4710743516517 43.6919270353542  
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ATP13A4 50.5670783769975 36.1232327599945 47.2962360458401  
35.3829784221072 39.0564222526273 34.3887641786747 38.4005795891396  
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ATP13A5 40.7609952437622 36.0366673493555 39.0775870687758  
35.1451084093692 39.0564222526273 41.0582900711341 40.4359177791566  
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ATP1A1 882.105892529265 454.02808608679 657.031980628955  
674.270050283701 570.085422388476 555.727708387209 698.595302020108  
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ATP1A2 29.633229264005 40.2493681589104 39.3709357615493  
38.745552403895 27.4352294118391 90.2790229242453 42.0605906240248  
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ATP1A3 37.0320432433314 42.4493032770053 42.5406888281114  
48.4916117779992 41.6806984441849 50.6360662655392 40.4359177791566  
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ATP1A4 39.9182914210537 43.3458769998118 63.6334154351075  
41.8778873678551 46.7058093820839 41.3094485574845 40.7910160811527



38.7864161493321 70.6784633355742 48.665578118898 52.8297102061403  
64.3571664944642  
ATP1B1 679.810781641519 627.914461428624 614.603743904512  
120.571680725698 213.768352764473 201.875082892488 559.296669575666  
376.289659542649 427.363555286404 227.94699237549 300.057362423939  
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ATP1B2 65.8306182796781 55.9269493191353 51.223859150798  
50.378948785456 80.428712610358 59.3618843678775 75.287377665837  
76.4637616585578 73.7873098190297 65.0928075335306 78.3542840447759  
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ATP1B3 212.062417120966 207.768377497439 368.390023942835  
442.080188140864 347.247950836937 190.403032965372 246.680724959444  
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ATP1B4 38.5007204246293 41.8073910693411 37.9482157381008  
45.5869891570251 42.6022652963326 42.0574848021044 34.806104801006  
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ATP2A1 43.4215162178364 40.2093230376545 38.0958223740111  
41.0219290963778 41.3387790895716 40.2851212785573 39.4600924554505  
43.7839209303388 41.1349567921107 41.0657892043496 41.8606936669687  
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ATP2A2 465.595459259015 441.872082665398 487.749060801066  
343.892794667047 659.666977039793 472.522115719366 360.523229691604  
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ATP2A3 41.4508241771315 50.7119825096136 49.3780606970538  
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ATP2B1 42.6561897411324 43.0227387991135 44.9174294707972  
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ATP2B2 40.9201978689462 38.2795150354677 37.0174299366022  
40.7941759414114 39.9042726867255 41.6590564937735 42.2143023923639  
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ATP2B3 41.9823787224629 39.0894172982439 40.8833572570383  
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ATP2B4 181.200738629391 124.683201596193 469.553640187203  
180.349984862124 74.5758811681995 446.162602155964 66.0979829658877  
108.616118600231 80.3805507705979 370.779448406233 313.233036704221  
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ATP2C1 120.240956797301 155.795095438102 144.02257553612  
115.913030448537 179.214713709599 111.071209057746 129.605603092944  
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ATP2C2 50.0466349801009 144.954155897343 128.146059846414  
47.6687908290818 53.3086645804786 41.159706131351 67.3976855661302  
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ATP4A 34.3473914754963 37.5469247328848 37.1643693306382 41.8778873678551  
40.0599807618105 45.2852528185486 45.6042625176633 37.1317006162938  
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ATP4B 41.0608773166058 43.3972849968032 39.7847448502731 42.5321207892864  
41.0441816173391 42.9695585740813 44.2753808209563 40.6750540874299  
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ATP5A1 1652.85734308754 3800.19142219719 4048.33132153903  
1801.44003951248 1907.47560253019 2733.80542760533 2337.7738990994  
2488.32876359853 5479.94045861143 2435.70120719503 2755.23573327276  
3263.05269150231  
ATP5B 3618.78958408675 5636.93532853955 5566.52516420571 2465.65854657837  
4752.94498024732 3399.75820494572 4569.48246031279 5479.94045861143  
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BAIAP2L2	51.1740855632044	69.640968387662	71.6573554353691	
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	35.7674462337723	43.1252272136667	35.9305494063137	39.7576136507593
	38.079222289614	46.1101825640108	48.8623729374733	43.4709415392696
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	62.5106969730855	55.540888910486	46.7100796279384	58.8022152133979
	81.552417816742	59.2628513357357	56.4567728276775	54.4313108506244
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	45.5809132232681	47.0940613507321	43.8206425661746	41.9315419791594
	41.1742244762318	43.7303813515864	44.9713479185144	37.6557714476853

BANK1	52.7570461169969	63.6966761077037	100.205124008648	135.669367786875
	64.193536444915	44.0804700754786	63.0119737420787	91.9919654450652
	103.513421757522	68.0556717366572	64.6446465846487	73.3321469094819
BANP	362.506098778318	304.718140992378	331.306005726359	401.202348352506
	403.243939813779	235.127539195661	361.776841675393	239.385229462309
	287.363928615517	272.663785805238	316.419421649196	267.427827956058
BAP1	88.5140510969737	85.1950626054282	95.7820879892969	93.6212502203405
	110.411217828763	108.022329297132	105.802035886293	81.3978207813439
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	44.7829632472754	42.2577689927563	42.629412460409	39.853866204927
	56.2441895183416	47.7180816682562	44.2142581488029	38.0452862258803
BARD1	162.993316022946	97.5849495690144	101.935321521672	148.333778341005
	109.017269529278	168.492959515167	187.331614826395	293.463475974405
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	43.5627649099623	39.859345745831	40.5281496800812	41.8315602975157
	42.157627240486	39.6609238036815	41.1222709786153	41.6336636285875
	38.3291713594599			
BARHL2	36.8072833828297	35.4484652445078	37.5597671487621	
	39.5050383901884	40.8873907150245	42.8598805316863	43.4544762830742
	41.8417024632349	39.7537274655115	37.8217989841918	47.5439485437351
	38.5279745308203			
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	41.8806343997257	42.2577689927563	36.08956004634	40.831207953647
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BARX2	46.7293238583888	42.7775752471711	43.401782064778	53.3967242431461
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BATF2	56.6951078698291	55.3477556906605	46.4569566520107	73.3725472767369
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	162.658589763207	113.008760911729	112.007118067348	127.2070318269
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	66.5187917407182	63.2343637481705	78.3082773071531	78.6911549149983
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BCLAF1	213.590067519021	240.520228413182	190.548265163011	
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BCMO1	61.8529316708431	43.5873188565519	43.0016969050339	38.745552403895
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	48.7358147030082	46.441301934328	44.9713479185144	36.8690774823319
BCO2	37.55264801907	43.3458769998118	45.3974838013476	39.6292788039793
	39.0564222526273	41.9543948167375	37.830876898596	43.2551508830106
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BIN3	96.3232257371077	51.524711857679	51.8122261766744	50.8567345921473
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BLR1	41.4508241771315	37.2810767789306	41.2365089689635	34.9221408381038
	38.2496050953547	39.2248354955045	35.8227939208521	39.4710743516517
	37.2810767789306	36.4651112441576	37.2892641289258	39.8497227447888
BLVRA	177.088290547513	81.4621222177298	150.801729138762	201.782740241526
	67.222434502867	183.690616959682	116.74427460886	136.332339821167
	113.026772174726	159.359051158123	140.976643799742	193.676161965973
BLVRB	92.084526929319	57.0082102559228	84.4443931765378	69.8314582428552
	71.7263663921367	136.517445122438	102.294142438313	116.967446594767
	107.222176166001	120.60052672409	99.2749350936362	108.082240435027
BLZFI	1050.05355467301	462.762837284748	670.958499409833	835.171475474151
	388.336994961328	374.723141438448	689.738256133922	1564.55598228713
	481.492404948275	1561.83892117664	1693.5377672895	952.16345035163
BMF	63.1291723738553	45.9732108120834	46.8934754723474	62.5106969730855
	43.1252272136667	44.0399598874356	51.6784647420677	52.9240098541574
	42.589641010388	48.3119523820103	42.1454750198208	40.9149601380325
BMI1	166.281651016457	318.369837408344	323.855522995794	259.812381486915
	366.515210930763	419.182443507848	245.691073028699	307.550936236018
	362.387413555537	241.486113826383	234.043251639296	387.867128019374

BMP1	124.866058211181	56.9463858443402	58.0852316663986	63.5107036952143
	55.3951994031724	54.0865464112237	45.9368273382327	46.1159021593282
	53.6446045619513	69.8397773950218	58.6176747515895	59.7118480874431
BMP10	38.6454098044474	37.6383530120621	40.1985790927248	46.1673159982664
	44.9936360641969	42.157627240486	40.2154497375715	38.956280281655
	41.1742244762318	43.4885245598939	40.8225507267584	42.2577689927563
BMP15	39.9697332660833	40.0527893189096	42.2577689927563	42.357910063876
	39.1650142708257	43.7630587657205	38.941855825269	50.3972033014227
	36.7267557061938	42.9866214102525	37.7384958256497	41.2437378488025
BMP2	61.356483470053	260.279110870904	263.53897660224	83.877343750194
	78.1275793755619	79.2701322339022	70.2635892414678	111.291087721139
	66.0350709576651	325.275883498219	358.979854534484	141.572530741416
BMP2K	48.2324547902378	54.8133029594319	51.0188883041845	84.7503257101143
	51.940083408061	57.0775902639215	52.4898616460704	49.6534108863792
	48.0163377492228	44.1765254182701	46.1960490865583	46.1592873342534
BMP2KL	40.8681871019812	38.9338521051669	37.6557714476853	
	47.9915414951747	48.1473938886239	46.574682061365	41.3594868055879
	40.6171774724171	43.6670755115848	40.6022003765153	39.7342718293432
	42.6758568421347			
BMP3	59.220967994972	48.3699741879723	60.4809187893259	32.1218888714537
	41.2740822675592	38.8336427948187	44.8643898647322	31.8228237796461
	41.863927676552	38.957687788868	42.6366765186182	48.5123041297835
BMP4	77.1008255162781	72.4978364649174	47.5673419710251	52.0470560622094
	66.9260611060819	110.223625398261	148.312100828662	76.011923854897
	64.9890714157316	98.1433318215702	114.464626286414	95.0513978212968
BMP5	40.6559419616644	53.8499082625091	41.3366779545815	43.8002456102021
	54.2301964914419	55.3202238943712	42.357910063876	99.6392844274488
	47.27543600687	58.7198210787055	65.7587943905649	53.840976437122
BMP6	54.5358897781765	57.8876850634922	42.8270038153139	67.8978240198575
	43.004943518025	46.574682061365	42.629412460409	39.5466975353131
	36.8127605061228	40.7063426028871	46.7386599624801	59.0894921452893
BMP7	41.5421429082231	209.31241212773	148.027258506301	48.1662933382789
	147.388500451427	54.1440452292081	34.4570158133896	61.2343203799193
	76.5444845463963	131.645714321903	127.345094323724	116.793627324217
BMP8A	33.0463640202858	37.5469247328848	39.991353369336	40.4359177791566
	39.9697332660833	35.5158505219112	42.629412460409	37.4484310268909
	38.3418933808844	38.6454098044474	33.1645364749371	41.5536168238478
BMP8B	61.1022920882065	48.1627097465883	53.4743535852344	44.4367387274922
	48.8381507187986	42.6575535390785	60.6548851977964	64.6316818494785
	66.8632294055679	51.1169368198437	54.8532558909227	55.4635297192076
BMPER	43.0001432913058	38.8336427948187	36.5474283500601	44.6905691366696
	39.5595233162192	38.7340969861754	39.6535880152834	36.1375121409002
	34.226171989766	35.0668743708816	29.6891949090828	35.4484652445078
BMPR1A	62.5968484440453	80.882176929636	89.3868257841517	
	50.7774722329703	68.8362790228976	140.853812988562	75.8779316255794
	64.7838753386185	78.6602721596257	92.4534854832186	89.4111455826308
	117.191735492199			
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	37.4223289687135	43.5544347011646	45.1873487463472	34.0777108441756
	40.4359177791566	39.1790517315259	39.9948390976317	38.1835938174625
	40.4639532172338			
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	133.893108529325	221.598637828404	98.5663841503803	170.475212920685
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BMS1	174.021676013865	133.192618821838	150.545989010484	120.284321694275
	165.322633260592	143.973063517706	217.065944053174	160.638833695464
	204.63343271995	152.792457231813	160.203825526096	155.252915611651
BMX	39.6279144647521	43.4031723677362	38.2523289394497	39.9182914210537
	38.8964578286293	45.0241191707651	41.7656868106485	41.7419877611072
	39.3592387366314	39.7397636748413	41.0554874392252	42.5294887665766
BNC1	39.4987030972173	38.855011124887	40.6451121071568	44.2142581488029
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BNC2	108.649424858333	51.0175677516029	41.8751578329365	64.6945454069792
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BOAT	45.8574226904273	45.2098033805679	43.917817324545	51.1313686723929
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	44.147557390293	90.8335894699136	33.8558232866797	40.931294690669
	40.6957787921451	57.165971310746	55.6972661824064	43.5738557773903
BOK	208.915145509698	140.853812988562	162.833785414988	184.087380444203
	91.2681347227088	136.103246130094	139.855023065402	118.341308125578
	157.677866955988	156.844010597219	133.401306624347	128.635811501506
BOLA1	54.1745577382276	49.6203214143464	60.4809187893259	38.2041059863839
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BOLL	38.7537364570873	43.1567024035183	41.0356368374708	40.2406186868086
	40.5158867964016	40.5703581862752	41.0808257270221	40.1797228736088
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BOP1	575.863848923457	494.300858189605	278.453446231317	257.194689822426
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BP75	59.8248482438562	63.1780854659428	91.9919654450652	47.9915414951747
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	43.1252272136667	39.4953494583071	39.7576136507593	37.7612949798895
	38.9006788676407	40.8049408996274	44.4688999098904	38.6454098044474
BPIL1	36.2496364442264	44.1239711172417	38.2280071951674	42.357910063876
	39.4693871570028	37.5887129572848	40.0052661202207	33.4534810696886
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BPIL2	35.0202257459026	35.7393138893354	40.6737160001291	39.9697332660833
	42.4864576619427	36.2015763253919	40.0052661202207	43.844855336215
	44.2607789091176	38.528621456378	38.1835938174625	37.8490162439785
BPIL3	34.8099089553046	39.5050383901884	36.2683886571585	43.8002456102021
	44.0451487108213	35.6125439901743	43.4544762830742	38.745552403895
	40.6957787921451	39.8873706855774	43.0971787292711	46.0633179231318
BPNT1	90.7551885299639	177.29096218424	209.860757709908	145.676955166566
	154.355197155161	117.907440794926	286.11425202743	181.488068017883
	116.576093937704	85.9910479975356	145.01315947031	100.188736523729
BPTF	55.9563971339766	51.909968572392	50.6987358483181	63.092106057211
	52.6226745117396	61.5824518349507	48.6395795163502	48.381918148032
	57.5430365699386	46.9598474201212	53.655233033193	55.5276281380084
BPY2	38.8336427948187	43.3458769998118	40.4882741869718	44.3440839686558
	41.0885562160946	35.4484652445078	39.8695929627783	38.3269307390572
	43.5140141743856	41.4812544772644	40.7725311293918	40.4192415967414
BPY2B	41.7397731376692	40.8880530359822	44.1452943804044	40.9607305725196
	43.9450023643394	42.0574848021044	54.8074655158941	40.4359177791566
	51.2776048338	40.5090849993014	43.1931731665131	40.8681871019812
BRAF	53.3059058105836	79.1039287828151	50.8303921211581	54.8412943008635
	88.3954618645976	46.7800033479223	74.1353964055485	70.5322939116406
	58.2401724760744	65.5349012839562	63.3544794716167	64.4156641487994
BRAP	37.6397652536077	40.7952353240579	36.6522278218553	30.9241129241985
	39.0564222526273	38.9378717994178	30.9403229851671	37.0390589468421
	38.2215591930186	43.2988017098387	36.6298807161755	34.9138625012006
BRCA1	53.9517841438975	51.9595173266422	42.2061277250364	42.4061338151892
	63.6172860741922	42.9083290030575	54.4934782594218	47.0940613507321
	54.0626629538146	41.9226500021333	39.6403089864678	48.27609330316
BRCA2	48.1952521496489	40.9731067463382	40.301483914446	41.1886975241176
	42.0709558258414	40.5281496800812	44.3440839686558	43.9366081640576
	46.0106098064475	40.8049408996274	39.6403089864678	41.9430737035925
BRCC3	80.8943070653517	103.139459009593	77.1614179978243	81.1189042503645
	137.239944506217	89.9789975503195	103.447730395424	126.360723656793
	89.2056902297352	84.0691608193405	73.408861359425	85.8154958329408



BRD1	84.1254258487497	100.066535982734	110.973625869849	75.0377156190383
	130.002385558757	92.9820860411485	98.9988668602468	73.2037966614621
	113.367264677544	79.262977183608	87.6689055777294	75.6428949408034
BRD2	1019.67015337432	923.470702344816	616.912306849151	877.673009984357
	751.150916058018	602.726022292973	790.786577596971	915.936211119242
	810.201903561366	1062.93431683428	1040.97380790412	764.571579067138
BRD3	378.964387825252	366.915943380617	148.906660152784	173.013258797349
	228.882072078733	280.680953068339	498.958550919515	280.968337220318
	224.266559865201	354.158105175308	378.964387825252	305.554059609771
BRD4	41.6354649482853	46.857923273572	46.8928145400696	43.074472921841
	47.5647821785529	41.7309289572934	47.2927436772465	44.5544727111028
	45.0997987980157	40.4544974307172	45.3649611783915	43.551658853562
BRD7	229.792906003602	158.637047990511	236.488376031891	151.01326330819
	104.072423445726	165.029434090892	222.16475904496	196.465477936749
	209.004669589169	158.685201053359	168.225699005719	228.499788774214
BRD8	107.232979387172	116.51037006692	91.0443726041992	85.1847490113446
	88.3212200388592	101.177486898065	72.2577390063259	113.336158464071
	119.051596183968	91.8251275769679	102.24202987437	93.0474674148534
BRD9	366.129480083279	269.745248423773	251.027270265657	178.289913291111
	576.140066807763	243.672418126374	427.972184856393	340.553073657744
	235.222472959869	298.14782785085	353.868749867979	219.805214090875
BRDG1	39.266565827316	39.1982470626863	38.2280071951674	41.6564075217517
	45.8051846088552	35.4142595025086	42.7431359850339	37.1317006162938
	36.7267557061938	41.0057887014368	35.6041926503637	39.9519547348106
BRDT	38.4278323739711	37.03486806852	39.3344387353654	40.5991006167568
	40.3124262005404	39.3638967048812	35.3362091871364	37.4484310268909
	38.8507804383261	39.6719190054379	37.9607839934735	38.6454098044474
BRE	200.93077689667	214.484877083166	212.967855232105	175.632783805966
	110.729504563799	212.117653688186	308.568617575909	234.113622230498
	167.626012561905	175.632783805966	167.999042735556	169.251790128723
BRF1	49.4151347850687	50.0748292497578	46.7508829977587	42.4580504587581
	54.8630527326985	48.1324253195354	57.4508537244497	63.6476735543021
	61.0845101400379	61.1851254827343	54.2683296643972	56.233217375698
BRF2	169.75692324104	81.2182827624857	120.401643722713	101.144615206297
	169.561107057293	150.801729138762	136.062864107443	173.944080519006
	114.304598397252	224.635749257133	211.137455821181	136.541379502691
BRI3	744.080606078086	653.089523541803	668.584452504579	1792.42490815074
	600.34379987143	1149.02954135912	705.283979182062	453.260719561292
	590.139974503603	469.78210773245	536.73426937255	578.311131274653
BRI3BP	73.4853298204744	83.555058970129	66.4079972657486	
	61.4518104624768	83.2652824564032	50.6774883370457	97.095992167029
	62.9364422691302	97.4709987978999	53.7507429765038	53.7423898357583
	65.564930068976			
BRIP1	41.9407041937973	43.4396866157171	44.8872784170036	38.2041059863839
	43.4544762830742	42.8598805316863	45.223075311113	43.4544762830742
	38.7298222155532	46.5650556481721	41.9083581529276	39.5418280570561
BRMS1	506.75912743556	351.188432232165	439.770250139925	460.340300658834
	494.231747291283	267.261896105785	609.243908604949	1012.0373748933
	461.83420090894	406.104588997462	431.353025968649	268.936151471133
BRMS1L	50.2663821500171	66.0479079234982	67.1299518044849	
	51.2973486610884	57.2647835956181	110.036754099036	56.0515443021293
	46.8482302725294	65.9900865113645	60.3816817102326	62.0404348860702
	66.53831442217			

BRP44	262.98784416804	319.871452890512	897.198663109723	316.185342210304
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	488.277500837251	281.527450183603	270.303708972854	387.631477822638
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	375.818861583151	184.808179948172	438.50123471613	183.584085676174
	214.823948126294	267.170081805168	294.908371819124	261.51893439249
	409.554706384667			
BRPF1	374.026381773215	420.401914084346	334.016152807947	323.095468495074
	572.19538884395	289.716911324484	552.162906190653	715.662312404643
	289.975375372371	374.096934824025	402.571146447946	260.383969219887
BRPF3	189.111092737256	151.088035451997	113.18951586976	96.5813769696577
	120.309345127552	119.015431849218	123.455270940015	69.6473843718254
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	49.1928206164702	41.0582900711341	40.3302268293707	38.5457716679071
	37.1820543575123	40.4136535208406	41.0808257270221	38.2350720635382
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BRUNOL4	43.2135791259317	41.2283968464263	41.3366779545815	
	40.8084239472012	39.2010256871265	42.712908390565	42.4386427013314
	43.1567024035183	39.2809305246091	40.6500508575994	41.2324382727265
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	41.4273122914951	50.7615314686244	40.4359177791566	39.5496902678788
	44.293922970134	42.6366765186182	38.1042454705119	41.9083581529276
	41.5536168238478			
BRUNOL6	40.2543341073001	45.7979032939211	49.6347864008749	
	58.3475983630509	43.1252272136667	49.4157684139858	40.2154497375715
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	83.7829283976292	98.0967511777819	97.7965639721152	102.899135663993
BRWD3	38.385865183581	40.0527893189096	43.5710871617107	47.0874209746031
	49.7235523248653	34.0045980663271	42.357910063876	43.0390857698452
	51.8083208406279	43.0919221375514	40.723990462047	47.5025821041537
BSCL2	352.132645260048	323.048740324895	345.942093303061	402.794855141389
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94.7283425282671 56.9360840563854 166.648551193168 67.5206810636627  
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C15orf15 640.407302868904 515.216890329893 295.371694979522  
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1679.12630849964 2405.8635632802 1055.00793806075 3070.83113612925  
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C3orf30 44.9370339275041 47.2299678280724 43.5710871617107  
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1917.90025587049 987.427672417105 926.61614755153 1864.63057767867  
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C3orf36 45.7356815244513 55.0897019602305 57.2107492415265  
59.6153684374766 39.3667161654772 43.1826328292558 40.2154497375715  
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C3orf37 112.551747307723 100.535211780514 152.395295329633  
134.258351436533 173.11353027932 112.768270540409 242.339375770778  
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C3orf38 91.8088250889427 124.803597244786 120.771048750176  
119.502912878938 162.569762535436 117.598001907902 97.299696284253  
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CALCA	43.0930293831497	41.3610369241157	38.6005272730664	39.7742005651286
	43.5880694884799	41.9543948167375	42.0605906240248	41.0808257270221
	39.7210115145672	43.0156099182214	43.7924421812682	42.3214282169749
CALCB	41.7397731376692	45.6533175604486	43.0971787292711	53.593974682612
	47.5647821785529	39.9397419279057	49.6872467499977	52.8622615027833
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CALCOCO1	71.4276813927272	77.3367966395554	74.8071157013401	
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	132.3192754634	67.1278109419819	140.837788264535	113.403020750953
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CALCOCO2	94.3674661847143	86.8262463672891	85.5839487225537	
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CALCRL	71.2963721541702	61.8492980174846	89.1115172961797	
	139.925369282704	62.9553576299033	76.1991031349451	43.4544762830742
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CCNE2	64.893664076381	64.0605738099971	52.4234283832574	54.9919060580109
	107.693162310852	49.3654837541353	87.3957386451235	50.9099078696349
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CCR5	39.6292788039793	45.6271294527191	38.741573807882	39.6292788039793
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 CD19 51.7607563002005 110.214922820817 58.0218262176065 252.280105035425  
 50.8875036861067 47.0940613507321 46.3057385979341 108.945545005203  
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 CD1A 46.0920218698606 60.2547250212462 37.1643693306382 89.0203733091224  
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 45.2897806651929 45.2556760873335 43.4424616940528 41.5132248356707  
 CD2 78.1313732870053 194.189674572424 187.439021508049 355.568857981155  
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 CD209 71.5484567134601 100.139490974785 111.227016020927 170.901596796384  
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 CD22 41.5421429082231 39.8695929627783 37.4642807402741 47.481302504066  
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 CD226 37.4554876386402 44.4411734611229 46.7508829977587 70.8835636550472  
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CD24	11410.3307451176	3786.90274075023	1642.75555340648	333.566613571224
	1490.1549980903	389.364650157102	4427.89837060471	12770.8282719641
	1969.8871504719	553.328261478032	792.880882528835	971.856840043688
CD244	39.8662795144616	44.3529919625344	47.7737810047679	44.6905691366696
	41.5668884168669	39.8455060654531	37.1643693306382	39.3709357615493
	38.4344387289956	46.1390887492649	44.7926323492519	43.6753843488695
CD247	95.7194132679937	213.204385896543	218.446312290024	262.735075993242
	75.4272782742534	69.9819944829311	132.903804194161	116.275899706695
	59.3580517977711	95.3507664364654	107.682738819549	65.4435809676217
CD248	606.276674926567	274.648263378054	233.468474830926	360.342857415756
	348.165210494253	987.427672417105	56.7780520416533	147.704325041249
	64.643220133046	647.044821320392	395.875593488613	584.724083441601
CD27	43.4626049853157	67.5417980425932	52.3432130135266	120.068630086702
	38.3561682218911	41.8613406887824	43.6753843488695	43.9366081640576
	35.5220586859301	52.0999467564713	43.3085358214154	42.9887069977696
CD274	41.5421429082231	41.7337506166619	42.0621425894624	77.3864518736634
	44.0451487108213	48.0350549043063	47.8947595316832	57.6684494624163
	44.619512785899	42.9866214102525	46.1673159982664	47.6040671292013
CD276	209.705575423447	112.542326463419	89.1632548302738	100.234661597218
	126.274897979594	86.1924491308234	161.326580647514	169.889618506937
	128.860357469791	87.5967418612698	81.2673471767743	78.5697118992327
CD28	44.436995101921	47.4076235350059	47.9035532886869	59.2778887402357
	46.4343327861696	48.0350549043063	43.0930293831497	47.2864663693787
	38.3418933808844	39.8873706855774	44.6286581923295	47.1060577218993
CD2AP	77.1900613562529	109.386655134289	95.0738959950301	48.309866878365
	62.1836961153924	52.4351670989268	83.6935756500468	54.9919060580109
	122.301290485889	58.8022152133979	65.2295773603116	90.8140983242733
CD2BP2	892.754288149486	609.243908604949	1111.13061382818	
	736.405815842011	1037.51323185348	668.584452504579	497.290172759099
	670.271164195182	368.162822151919	646.323419285676	675.832363405287
	488.649780652311			
CD300A	136.736085245679	83.0574731969818	72.0243286940589	
	701.168333137671	63.955655956484	95.8075612515186	79.909124697198
	65.1637149462661	48.9931786790166	52.5522545249206	49.0361180089431
	61.8529316708431			
CD300C	44.7044140979108	47.3536182445315	41.9666541498638	
	111.071209057746	46.5557478175976	50.6360662655392	44.2166118829877
	50.0526763693329	41.56354991110307	46.1390887492649	41.3553369544097
	42.1537476443423			
CD300E	38.7537364570873	40.3384318592985	39.6451483836089	
	51.5913529948887	42.7107928951766	49.1013967533186	38.5066108855005
	38.3684202018524	42.9020321355927	39.9948390976317	39.4410515050885
	41.7575097298927			
CD300LB	43.5710871617107	38.9338521051669	37.9482157381008	
	55.2214187655851	38.8456942580061	46.3715909653832	51.1541843174981
	43.3262148375525	39.3750969348308	42.3606390470387	37.9230440150891
	47.5025821041537			
CD300LF	58.8224410806741	50.7487159427973	55.3122077514658	
	276.550265506988	49.1928206164702	45.6129956328415	44.3440839686558
	46.695848687694	40.4997186069494	39.8873706855774	40.9157352260901
	46.917149434588			
CD300LG	40.7022020432945	46.5952288260503	50.5089777244781	
	47.5733603903505	43.9994592139885	51.1621379498014	42.9803717121865

	48.0582855095143	46.0633179231318	51.0492389286271	46.5308571957384
	45.1735152121056			
CD302	56.3884556031093	71.6537776654915	65.2670315837785	110.25582862843
	87.9963662401769	219.527698657901	66.4258159334241	66.9340967279385
	50.5368663784059	69.5853093594169	97.4515987591398	99.8277095030346
CD320	157.189139558365	129.081183929988	107.792406701643	121.281573820819
	468.573956652904	174.117816184497	53.4921736109774	136.913434348036
	144.37233706688	105.29989739819	120.418406532204	116.793627324217
CD33	50.0466349801009	49.83247261979	49.5424425850549	143.624756920887
	48.9627346956003	118.57174795047	44.7255207589606	41.5464765641928
	43.3744503319109	46.6598879466655	46.4753015651202	58.5087296620514
CD34	127.986477405999	120.465621774337	179.040571908629	118.614027673431
	83.8419777255838	581.093069802913	51.688837858865	94.8260360398356
	52.0999467564713	400.093769705765	281.452208033175	232.440458525975
CD36	47.4767851750188	59.9682734755814	52.683711208052	117.8523906126
	48.9980022280763	203.651890041185	45.223075311113	49.7748385529588
	59.3709786862962	58.0218262176065	49.8393069675192	61.2343203799193
CD37	78.7045070574092	111.689615107055	85.0946882743418	572.19538884395
	44.9936360641969	112.519759295176	105.45765455249	81.9218437790485
	44.8636979668258	51.4454142248566	54.7061116419212	51.2776048338
CD38	41.7397731376692	57.4538469832241	53.6837370963602	152.21278457652
	48.3814421939888	39.3841861812262	39.2533668167483	51.555506218204
	33.5578650644246	39.8873706855774	38.3684202018524	37.4554876386402
CD3D	72.2797007105795	98.403191200835	100.139490974785	204.659954879641
	48.7906379070015	46.2027193115397	53.593974682612	76.4116336410131
	44.5766390180978	67.8774399765179	85.7390214986603	55.2776978524578
CD3E	48.1952521496489	61.7572675712557	67.235655687817	87.4850071876743
	47.0954207417646	42.8598805316863	48.1747307200218	57.6684494624163
	40.2274522635576	57.3562426592112	69.6097529955737	55.3563533836982
CD3EAP	46.441301934328	48.4497719907777	48.8941062980393	
	43.074472921841	71.0593419018503	45.0882356578404	42.357910063876
	48.6441988290952	52.8502823653368	53.1993028936883	43.9450023643394
	49.6629259325705			
CD3G	48.7646976789783	52.3896785600751	53.0104469636221	69.6511571901941
	38.0598374201407	44.4619248757502	48.6395795163502	47.4740726032707
	39.7537274655115	42.8936990772838	45.7328341667151	47.6938628797168
CD4	67.1387898740161	58.9910892923962	67.9850517608624	168.869258524932
	50.5110359971301	70.2553917409773	51.1541843174981	69.7729022157455
	46.1101825640108	147.945429978177	92.7254735358203	92.3388129097482
CD40	59.6651708873036	58.0218262176065	62.8635815439291	125.052841200703
	70.2565873027242	67.9922604709859	46.0228732507872	57.3837827230023
	80.5437011468815	66.6788758487969	78.0020909283414	70.2680820278385
CD40LG	39.5676051939342	44.5884811528117	51.9214790114499	
	46.614092935749	44.6834648302383	41.6590564937735	40.2154497375715
	33.4534810696886	37.6383530120621	45.2556760873335	41.2598458726002
	44.6484005362281			
CD44	447.248719481853	272.022473793857	471.297503316471	1716.82239359769
	247.966757890598	735.460645553438	224.914980996667	467.884559162462
	314.091389958069	691.132727131746	591.192020333181	673.522667186915
CD46	346.116601612353	617.808073077341	933.968759959712	272.981148492864
	413.31638457585	255.284866561352	300.762511215441	370.330147221688
	552.860979481958	382.872356030213	439.955651727755	699.488969175268

CD47	102.952512767439	136.67168846573	116.839274984089	170.560304063093
	101.987604729928	175.673196925527	85.2805684630976	87.3634135323569
	138.292681458047	140.698550434486	152.200107222761	139.328628553223
CD48	58.651329686676	56.0477607422828	64.9072331703985	417.738831997557
	43.9450023643394	54.0382756991549	61.3620062177524	53.4109882045447
	39.4762546236449	61.8529316708431	59.0537479001842	53.2046867327331
CD5	45.4799270968969	57.2871072823547	55.3122077514658	70.506090074243
	43.4544762830742	43.5752393599169	52.4111687156893	47.7889447429963
	41.2870505273664	40.6022003765153	44.7114813656401	38.9496515344837
CD52	162.864661742501	212.688298502868	201.330854646158	1372.51401036753
	71.0593419018503	113.218291314173	117.556281726503	237.809876921353
	64.2174369755376	142.515628954457	129.592927998658	113.130838519437
CD53	62.4317959077388	58.7460488758053	58.637422084759	437.84407370064
	45.310660704531	67.6817814091697	57.51482768194	53.6782125131958
	40.1738310955128	48.3077814647455	45.6706505553383	50.6141827957642
CD55	264.116434279258	305.119894105297	280.920208331594	686.154904023493
	180.255771684507	282.035361446993	248.355842321304	444.618035487523
	143.251956814524	279.782392390288	180.994353525666	305.119894105297
CD58	113.632855481549	194.012210675469	198.788202490193	356.826869112433
	97.0055689383756	132.223745961048	122.514153407264	84.9280683258012
	206.190699642477	80.1419822448876	87.6098790075242	178.858202962948
CD59	76.1417635449123	66.7585874672879	112.811643697986	112.506613718654
	84.1639779987105	89.3168921945222	53.7423898357583	74.7794253940974
	58.129051241441	75.2053836356882	84.8808332740321	125.221639689345
CD5L	36.2496364442264	40.4359177791566	36.6522278218553	37.1894304543751
	37.7576900881741	34.7983399096627	37.3799542961839	38.079222289614
	36.0741672064298	43.2988017098387	37.2892641289258	40.6614700944853
CD6	61.9504984796308	124.56803502087	123.597489107285	233.539376791695
	75.1674447943072	53.7442594289333	68.0157730844432	76.6868184563568
	53.7442594289333	66.5422130374814	81.3454589502043	54.0374522273907
CD63	194.924141888391	205.510539955583	219.616289279562	242.282363793567
	120.136330103936	271.857378677296	170.87055409699	193.853749625939
	142.647217549267	201.530434441408	273.108672916862	201.530434441408
CD68	802.036670929858	255.365088438518	478.682734715193	1945.33618761041
	200.986069552443	473.223156200183	270.487135967976	585.421238639853
	137.239944506217	328.548716133094	249.855746700674	475.008345432596
CD69	63.0505463098231	116.17375251898	599.670771796585	1107.96086673001
	44.2607789091176	460.865101118125	136.293724800658	78.5174639327946
	557.094756796515	62.0500352705887	61.0506827768127	49.7336769474446
CD7	69.9431447778061	79.7691160370015	81.7434024567356	197.540681021755
	51.2525124735102	53.9517841438975	61.8571521441451	79.9597944271831
	51.0062122023297	52.3304586399695	95.2490714726663	50.4847465816184
CD70	260.279110870904	49.1283590719461	43.0971787292711	52.1201052574162
	46.4343327861696	45.4882438975269	50.0088611244948	43.0390857698452
	40.7847110517594	47.4767851750188	43.5710871617107	41.6550823405646
CD72	61.2130609867477	51.3084273211359	56.1434024065079	132.205423909251
	48.2748123114598	43.6670755115848	60.9648845690177	55.5578334877425
	39.6609238036815	45.4614234442527	40.547835538778	44.7401523707775
CD74	1226.43929953115	1073.84987604662	960.526372655577	3263.05269150231
	427.818758455214	771.554891868456	706.914069768466	1118.62223628039
	1485.68317899614	500.549865625701	952.16345035163	381.198152331624
CD79A	43.9477262001082	88.8568707880669	73.7060605978536	379.031536537372
	42.9627566278041	41.8890826572422	43.607701594929	60.9009676344258
	42.3060097375421	43.2988017098387	39.5748670524951	42.1915582886043

CD79B	48.6621527194963	78.0730371064675	65.6620676514157	212.353676518748
	47.965492554043	65.0391287166255	51.5119005564951	67.4775348162369
	46.2657906047993	59.6565330440648	60.5948704279864	55.1037284831588
CD80	40.6559419616644	44.7829632472754	42.2577689927563	61.3747706295648
	39.6535880152834	48.1591264215184	45.1017494688414	41.7419877611072
	34.8552366193358	42.9866214102525	39.7342718293432	37.5556299264699
CD81	4632.08655821299	6673.00322263275	6606.35767508139	6309.53691418065
	5246.60459228386	8259.38594893529	4820.70258471362	3263.05269150231
	8050.256095383	8703.02873382565	9326.9018948838	7393.77508374057
CD82	92.2447473381285	91.5464279432216	160.100408020768	183.613579501306
	89.4111455826308	100.510815049535	94.4618437533343	83.3322777515023
	112.743602566917	73.9192243586276	99.3142021810133	88.8330881965986
CD83	127.072685504735	146.196470375622	84.3755392205436	831.578043520215
	237.532800487032	161.268186656743	158.998384690038	303.139550962377
	66.8077748120381	69.0530953932111	61.5392012551041	65.8455652907556
CD84	48.5835484742456	53.3175733763272	57.50915811428	138.581471125405
	43.9450023643394	61.3309323244567	48.1069139823064	49.3217779272599
	45.4154248354367	44.4294261786154	46.0905079010237	46.5905131500956
CD86	72.4325984501758	67.686778662624	88.1068080491008	388.336994961328
	56.359578588344	67.6817814091697	71.5836731059913	73.5459854447472
	47.7086093893038	44.1956990708089	45.9104478407175	48.1627097465883
CD8A	57.4376528157926	78.3488426553071	101.086264355915	137.831070407907
	44.2607789091176	44.5180992653789	49.6872467499977	75.9136854087044
	42.8530333223554	74.9491421278749	151.848243044839	61.6311118308635
CD8B	39.7349536408822	39.2542963855807	39.9101908547397	42.2496337895968
	39.9697332660833	39.780640540889	44.0687697278114	40.9861485852278
	45.0583552831013	40.5620233728036	43.2551508830106	39.2839132447749
CD9	160.015674121695	126.171040948196	219.036267470696	168.11088055793
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	106.691530592115	176.43047680293	46.3057385979341	118.93749473833
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CDH6	47.611018474151	65.5730163728961	73.4122412764173	49.8304479381623
	55.3100442506299	44.4311655729487	41.0381860307445	53.7378346199838
	46.4164127487052	49.6561029118699	41.1638563416981	50.8442982601142
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	44.4954892619459	40.5710637884029	43.5627649099623	38.2083710281545
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CDH8	40.5654775358427	39.7835513496873	41.9666541498638	42.1273928203021
	33.3231576795423	42.357910063876	30.9403229851671	34.3865306339645
	41.863927676552	37.4302011516587	36.3390947880186	41.3481355128089
CDH9	43.0930293831497	41.8848959280916	53.2046867327331	47.0874209746031
	44.3557408297309	45.4882438975269	58.7585623394335	51.4360013601805
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	46.2718838939055	62.4530276414691	57.5955320223035	53.1182952086284
CDK10	209.794541970107	189.650905999631	314.091389958069	106.309161354804
	190.422737436225	90.3439862484238	224.827414462257	143.112509176873
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	243.446420243813	123.219313750907	134.239606718101	221.123510823097
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	484.968116511768	588.247843264181	634.023101883136	637.035929429013
	324.126628444078	428.8440159628	405.148979342648	541.631969808467
CECR1	171.623830248512	202.103107745135	160.385057525357	726.804513440787
	192.318724749487	126.232262861308	296.080833914967	155.872353189452
	135.889195284785	172.102568448455	114.5696064637	164.580141651883
CECR2	45.2875173643252	42.0709558258414	43.6670755115848	38.2041059863839
	41.9842695818285	40.9506062495231	55.2088411137193	43.0390857698452
	45.4799270968969	47.611018474151	44.1148826235374	40.5703581862752
CECR5	268.54298415337	297.739286969257	228.747320301945	232.13042919324
	271.138311888031	168.073605090354	317.777971035617	226.672191323896
	381.6928205836	227.206974078547	214.691909801388	240.58403560014
CECR6	54.7786516309154	45.9266745571724	45.063792968927	111.703187941409
	41.9842695818285	42.6575535390785	53.0277416531043	55.9303347977781
	52.4539007817929	42.9866214102525	40.9157352260901	40.9683275553869
CECR7	136.530734456168	84.1922656126304	118.854313907627	211.790532633462
	93.1238695478498	191.811190401876	91.0154871536701	164.813928846511
	101.954354107731	267.107863045114	185.312851727212	134.307645598718
CEL	69.9431447778061	93.2630594602634	72.7987593815919	43.3078542962968
	99.8699868526053	52.2089306840125	77.0003455479124	60.6706478075023
	166.717256080341	201.530434441408	86.7730065232892	88.3636380348802
CELP	39.8662795144616	36.3110701990588	40.8420925848403	44.1483976313959
	42.269054475455	36.9060997041453	40.1235656101329	38.079222289614
	44.8997235283254	40.8049408996274	39.153226699662	39.6352613956998
CELSR1	64.3502363726659	64.1607001437806	58.637422084759	
	70.0402992940342	66.8733921725051	64.7905331739366	52.2476631126873
	48.6441988290952	59.0563795877672	64.2174369755376	58.4816190076338
	63.3578893149245			
CELSR2	53.3059058105836	44.6918600441328	58.2986825661503	
	38.4208429103799	67.0163226819964	41.0582900711341	47.8947595316832
	66.9340967279385	81.2850357499192	62.6984594468418	53.4088637045445
	56.7711602236706			
CELSR3	217.976796656266	68.6074516459969	91.6033269431304	
	58.5406981871153	259.906934432819	55.0009147092272	241.017227991238
	131.67159377585	183.526640731647	45.9004543328976	46.8954576545929
	41.7575097298927			
CEMP1	36.9060997041453	38.3322849790657	35.9305494063137	47.9915414951747
	37.7576900881741	39.8455060654531	47.7390230243778	36.8400213077707
	37.5469247328848	39.4710743516517	35.4386677371439	39.2469742642337
CEND1	44.9896851005259	41.6466169548846	45.063792968927	41.3027031037343
	41.1868052124344	38.8336427948187	44.6032218589199	41.6466169548846
	44.8997235283254	50.22432299342	42.170702295259	45.4799270968969
CENPA	119.714551585774	82.1062834830477	62.5194460957899	53.0284011078097
	163.299997237276	53.565717255469	134.968128884298	130.2304824445573
	152.792457231813	44.3648993568405	43.363245077835	44.3521099857368

CENPB	700.010354583503	757.833254346899	672.759115794267	523.25106120389
	893.185203928127	1157.65264077595	1048.98028527123	513.891389190131
	695.255317861845	886.397061577531	1051.58050264114	839.850453078119
CENPC1	48.8333989709933	43.8495248991589	43.401782064778	
	40.0698728584484	46.0977687311222	39.3841861812262	44.6032218589199
	40.7311497914871	50.0526763693329	45.3530683538086	47.8284278211109
	43.3744503319109			
CENPE	68.2184093305248	104.305801811472	85.1981126713031	60.7148442408147
	114.161435210562	46.1974343793412	115.98265270452	91.0952554578659
	110.312681023811	45.5776159432079	44.2925355984056	44.4475838947656
CENPF	291.232601825013	120.825113658705	107.034189847828	59.2778887402357
	269.618616631857	56.8505380943422	338.415128695208	428.515605971056
	217.39432336811	40.8970401536578	41.6336636285875	45.9693232070002
CENPH	42.1679276329916	43.3016395799961	48.4890615340603	42.4580504587581
	44.147557390293	42.7107928951766	44.4045701012801	44.1311654985682
	41.9083581529276	44.4652605017595	40.5824352835642	41.2437378488025
CENPI	46.263826584899	47.8947595316832	38.2593044488288	41.3567204694281
	52.2089306840125	44.9896851005259	56.9320717885002	56.8595344107711
	52.6144123387561	42.5193208629123	37.6484782516569	40.3691324547049
CENPJ	67.2437599548936	60.5571721986885	52.3432130135266	50.5310598656998
	67.6011992144113	57.678188678075	72.6959688212342	62.9922928277769
	59.9108736364178	77.676210875358	64.830448408529	54.4992295592001
CENPK	86.4195039096886	100.483113678344	74.2769881586739	52.1201052574162
	115.408418935236	52.5330333302271	108.007227281411	78.0020909283414
	112.014137492029	42.5664883002833	51.2318935933116	56.4578213622965
CENPL	77.0301627655229	60.3928833351886	60.8357760968871	45.4634652319753
	83.0497574039035	54.8265655909623	61.6544855697851	47.7889447429963
	65.8622973953004	43.9450023643394	41.4508241771315	45.9693232070002
CENPM	108.479856042609	93.146085697072	84.6935029586625	64.4512696384839
	110.517563101892	48.5251714843637	172.748740911831	146.046179302584
	223.501516374076	40.8970401536578	41.9908237694988	48.4835379173794
CENPN	125.540457221408	100.483113678344	112.328675926999	94.3229189690855
	107.549325444455	56.0477607422828	153.643631245787	158.195749606017
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	73.7741438283854	47.5733603903505	66.7750249658122	90.1430468048409
	59.7961440557352	50.4234835272833	42.9634662926872	41.6031169661721
CENPP	82.8485522398913	74.3729155936862	60.4809187893259	66.9218519793499
	95.2833228196616	57.4777075615651	67.5206810636627	54.5125550937898
	53.5224822626949	57.2813205536176	51.4413099192899	43.5738557773903
CENPQ	58.7404123614695	55.2182004838121	49.2041300973417	50.7046706880325
	52.8190882379316	46.7800033479223	46.1634822993009	46.2779564481158
	51.8083208406279	48.4890615340603	48.2050207071554	51.0013344286851
CENTA1	564.929183025034	492.519023728038	293.300203370043	
	449.701353531924	372.758184542037	290.535354193244	369.717462266442
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CENTD1	49.7827734675743	48.6447083765118	49.8845794776469	
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CENTD3 155.762961582213 269.044011137638 530.314249832491  
221.163225922749 192.564048264712 124.490684428024 203.127486721124  
193.196385709124 323.855522995794 548.217757366495 425.435793468733  
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156.976072444343 199.54796711653 94.1128427766432 125.052841200703  
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CEP152 51.540723788287 57.4966000742671 50.0050760710506  
46.9919960628953 64.9839099669442 50.6915708372926 56.8505380943422  
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82.1437429222046 97.7153995525346 75.854888525664 99.5844079573552  
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CEP27	289.05213385509	122.576931376426	157.281394920992	293.355303451014
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	128.786137360755	374.601792595646	302.083293019113	269.184000351658
CEP290	57.0006212637829	59.0709442090059	64.0162246399972	
	49.1786207920603	51.3511088648386	68.6424653037264	55.8019623191927
	61.8665316900291	61.4842573582507	68.534940191185	57.4622430729629
	66.4626619269287			
CEP350	90.2721521466478	116.74427460886	113.051477801522	
	151.740176274202	98.0143500562821	96.5287245311078	97.8309399470621
	128.38299874379	84.2299424587647	122.350248266459	126.79509061532
	126.115065200084			
CEP55	109.738537924214	126.389908470189	86.1563473462864	83.014860007187
	164.312946712409	49.8472708021525	217.848539722853	171.705718494906
	172.624182951104	41.2276963324981	42.6366765186182	52.1186591838715
CEP57	47.1962846565261	46.5650556481721	53.9612654850046	47.9915414951747
	49.9493230064613	49.4157684139858	56.2181240696479	51.8347877274018
	61.8445915808329	54.7827221235949	48.3847843498476	47.2131144508464
CEP63	64.9367707455078	69.3525901554637	84.0305689846475	80.8078050043929
	79.9719218603993	86.4898752526885	73.2144205844199	78.0020909283414
	72.8653205184014	73.6240672213673	69.036463612998	89.7184505543918
CEP68	45.9090659324223	55.7405934254857	48.1997158668729	46.8954576545929
	53.3086645804786	72.8472187581193	54.8074655158941	57.1362071277099
	48.3119523820103	57.9713749600418	64.2174369755376	66.0786923699684
CEP70	97.1271615802556	55.4106986624448	62.3245608177257	47.0874209746031
	107.770004093887	69.0530953932111	119.609614885616	87.7295604723036
	119.512426152446	84.0691608193405	78.963270461629	66.6118713143653
CEP72	46.6348258763289	50.2696827764943	45.3974838013476	41.1886975241176
	120.825113658705	41.159706131351	73.1654226019863	38.3684202018524
	52.7512110769042	42.8936990772838	41.0808257270221	38.0452862258803
CEP76	45.2875173643252	49.6841415268611	48.9944486068347	43.4410741327254
	45.5809132232681	45.8325181856483	40.6750540874299	43.4544762830742
	54.8946088631931	41.9666541498638	52.7817052791259	45.5800840647989
CEP97	33.8558232866797	37.8217989841918	35.4484652445078	39.7411455670172
	36.4434672195785	36.3845892764084	35.8227939208521	34.8949555140527
	43.1805016690297	39.7835513496873	32.9879066304034	39.6352613956998
CEPT1	131.126942328593	110.609133094021	125.061012833314	170.644636226884
	143.399636653204	124.599352191013	122.877322487518	129.268600210689
	182.9407471819	118.501031900986	117.20232751191	169.344094528032
CER1	38.385865183581	39.4629815741023	36.7172300749476	40.8084239472012
	40.3021896270845	42.2114134935898	39.3999056968598	39.2248354955045
	39.5806465938526	37.2686490268265	41.3234441859498	39.2469742642337
CERCAM	383.371300272181	62.5528124447176	93.310557793228	
	149.426965431854	101.681822254799	148.255880793905	116.74427460886
	138.666805923912	91.6978282652998	115.643361390258	116.839274984089
	99.9685666586407			
CERK	113.791456064084	91.8207081349104	79.9391673512018	197.070092523652
	119.45528139824	149.639066617945	89.0203733091224	86.0944261788554
	77.720889005668	104.462230406058	94.284665243755	85.3431175579775
CERKL	36.4564050256915	36.8285908669795	35.5220586859301	37.8153135197325
	37.29566077996	39.5581166303303	36.5783930720979	38.6151680924119
	38.3867490877227	37.4642807402741	35.3042041383893	38.7012264805355
CES1	61.0278709944136	45.5533570914817	52.7005092555102	125.52123746909
	39.3100256336821	110.589130460258	39.3585350448719	62.5528124447176
	38.2795150354677	79.4158467034017	80.5237920647059	54.1618170692792

CES2	104.492750153479	199.604105066243	243.403622361932	112.13936276116
	78.6286416672119	147.945429978177	107.668663185697	141.180682718758
	118.089250727398	166.064317271991	161.075134901675	152.942332679485
CES3	42.0833588105728	43.3458769998118	49.0655215909632	48.055683217958
	42.2455707947223	40.8970401536578	44.3440839686558	44.9631458622215
	42.2248608921879	46.0119912782855	44.3763859390287	46.8129509799753
CES4	41.2424637338424	42.1372626664516	42.1901757067073	52.4212131710421
	39.3667161654772	56.2229687620557	39.2533668167483	39.2672712041774
	38.2874316439311	42.9866214102525	39.3086414047188	40.4639532172338
CES7	37.9387791625384	44.9370339275041	41.8751578329365	48.856176220627
	41.6806984441849	39.2248354955045	50.0088611244948	38.4540849632254
	46.2027193115397	41.0057887014368	33.1645364749371	43.7672102682067
CETN1	40.0557788909923	42.9020321355927	40.5386195997545	45.5869891570251
	40.0599807618105	41.2567470068038	40.1235656101329	42.8482181313226
	37.9837233601316	40.4136535208406	42.5023941254529	40.9149601380325
CETN2	969.805093523651	698.595302020108	687.011162822211	513.109067557976
	1541.9572099378	1245.45371155527	1144.34555072807	989.0602710707
	670.023570141464	938.151864971251	810.382224368065	990.431472174705
CETN3	59.3353474684952	73.3950348855139	67.9410473129639	74.4365426051588
	60.1730663840476	71.2787833369055	60.726977722583	70.7087323885819
	65.1911280716126	75.8280474316969	88.2314365506494	103.252085427319
CETP	51.9545473262296	49.5443425465542	62.8131992098474	65.524821699432
	51.4527545197672	51.0071565607171	41.5464765641928	48.7039705048129
	45.1569741609597	48.9088046212958	49.319499137678	49.434568584642
CFB	592.010988342149	139.758805241617	740.994425128952	400.506633704584
	202.154195547644	229.035497774884	286.611037700479	158.493140172253
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CFC1	40.8681871019812	43.1805016690297	46.614092935749	47.8164193292842
	42.0709558258414	39.7697110924474	45.4799270968969	42.4580504587581
	43.7630587657205	44.3648993568405	40.4094901248527	44.293922970134
CFC1B	53.3967242431461	44.5152708955623	49.4573631027613	40.7481155008596
	50.8875036861067	45.0882356578404	51.5967098638347	51.1694248620208
	47.1744296124496	49.7259371799014	48.7502645382856	44.1452943804044
CFD	223.669853276931	237.237762964658	227.170944398338	776.670493028756
	264.161390133378	9060.10165509099	97.299696284253	256.721281849737
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CFDP1	87.5146535320072	48.7847528954724	87.455991111513	46.4555908533915
	54.802736966312	81.2314452281031	63.3924515518667	85.1544284060549
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CITED1	36.9060997041453	38.3322849790657	44.696023817801	
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CITED2	349.371668774717	795.381998233245	168.7696164772	
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	186.54041506387			
CIZ1	46.0920218698606	51.3084273211359	56.0477607422828	42.0102671859606
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CKAP2	65.6556779936059	125.503897988367	76.3583555666815	73.8480604979804
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CLIP2	80.3730667493235	56.463481075522	59.0308764112247	71.0820747228972
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	63.994439164071	83.1874704625702	79.1922819549042	72.4094549259929
CLIP3	334.639325701194	144.633447485038	102.150058925164	246.044674996861
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	81.8104679118753	1242.75259587926	1377.24483375075	729.342532316666
CLIP4	74.0913177754682	55.6323803479191	69.7855392178808	125.801834682035
	99.571118823509	215.452117252205	60.7992483126292	65.3019328668633
	84.673375308972	85.6763929745253	112.984042589704	161.228738711412
CLK1	227.243009473121	201.875082892488	192.564048264712	313.763121699885
	186.042094228091	293.649670545233	102.053879707074	195.221917652149
	153.626578526803	274.887090359131	273.379591993579	253.980053738171
CLK2	123.918925337643	113.735641101347	171.957278903005	128.157032116902
	183.584085676174	91.4446109489387	108.39424630351	106.233860458285
	93.8968899420039	112.23915619297	106.582060920252	105.317399386109
CLK2P	41.3387790895716	47.1856919329105	47.9035532886869	40.5484717678957
	48.3287893866569	47.0027453663546	45.3597029614942	44.5658219748173
	46.4569566520107	40.6022003765153	43.0971787292711	46.7182294568603
CLK3	150.875092086496	187.486245101512	131.586389151079	176.057220407246
	181.516519907011	155.956315815754	249.584588371496	167.626012561905
	190.647389246848	161.25239489071	176.963666283432	170.475212920685
CLK4	65.3531590366085	54.5374188496807	62.7605715573218	87.4850071876743
	57.2960245538881	72.6182747525443	51.0013344286851	58.5406981871153
	57.5883027758003	86.2118355769367	74.5654028199926	74.9294208313176
CLLU1	40.148780650831	43.683792219729	40.6737160001291	35.2143190355414
	39.1650142708257	40.3357777530419	40.4359177791566	35.9023742468744
	42.4540072551568	38.1042454705119	41.8168470823451	38.2350720635382
CLLU1OS	33.5994525227062	45.2556760873335	39.4710743516517	
	67.7121534934164	45.1137938810047	43.6670755115848	38.7337086062875
	34.9580369221164	35.4332080966594	43.2988017098387	41.7272875295469
	44.6484005362281			
CLMN	45.6517320730042	43.4396866157171	46.0727230219512	45.7397504535169
	44.0451487108213	36.8059561571675	43.6753843488695	61.3864512710242
	41.7627910693483	43.1839109702714	47.2134341420411	39.4490233720848
CLN3	155.123252685926	123.387418707738	275.975192937951	219.838542502016
	248.527031538874	109.86466812799	147.875578127733	273.849703944739
	188.36429659391	232.944023917808	197.720854621428	154.681233315729
CLN5	114.148080724618	101.020328028769	102.443884864631	158.66112269515
	86.8871118411414	157.463465828715	77.118454956956	93.2402285327166
	95.2018660650205	238.647490689325	176.492987902471	218.701583105141
CLN6	62.7669079605627	58.174555206394	48.0191002461099	58.9168466928565
	70.0133734659853	46.1513019317765	68.2708120569221	54.1731035633439
	79.9391673512018	54.4825201506931	53.5698357689852	49.6629259325705
CLN8	44.0707087774725	56.2508140932179	68.3234331335073	69.4677195088043
	68.4720753153522	47.7086093893038	53.6294062560285	55.3664856922473
	47.5183209236505	64.2848885182563	60.7231725808886	62.1718158914638
CLNS1A	356.133736281036	473.455955645297	541.631969808467	
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	415.759723627205	469.78210773245	488.183286350725	448.196293409768
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	82.0149542477384	112.873697337138	122.514153407264	162.181462827314
	85.9087280306456	122.350248266459	94.7008981904016	76.7791768896805

CLP1	103.727217972304	91.31756001203	100.43365828852	96.2385885003071
	156.088284999883	90.407200101342	125.752132815786	93.879589378061
	91.9291200887492	82.966263655525	67.1477341610979	62.0967404944031
CLPB	44.7044140979108	43.5873188565519	41.2365089689635	42.8235313007746
	43.844855336215	38.2293008890613	44.8643898647322	45.2806199505029
	40.8970401536578	40.1179210534118	43.1931731665131	37.7526485343328
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	462.105603187328	236.851068206869	278.067057781084	242.450054864856
	232.47874874281	167.319747725488	161.439879456216	163.917208464731
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	40.3452320167286	41.0582900711341	43.9450023643394	40.6171774724171
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	531.69595054137	990.431472174705	479.696469083953	811.142611128461
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	555.727708387209	1347.15664445545	683.099079617304	1260.45604038487
	688.390474335958	883.06773454117	534.056256675345	684.865133028228
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	165.190373710254	142.444971930298	214.873872837015	219.555240189863
	224.14182624489	155.406719968961	139.796374175417	163.643603259911
CLRN1	49.3901004211918	47.7246924920997	48.2883694323339	47.9915414951747
	43.5836473788312	55.401776072578	50.0088611244948	53.4109882045447
	49.1399035787209	50.3388505346542	46.1673159982664	45.0035308952466
CLRN3	43.0930293831497	36.9994058279362	37.0642268327439	47.8164193292842
	41.9842695818285	39.9397419279057	43.1931731665131	41.1575777497576
	38.3418933808844	44.0409178714232	42.4580504587581	45.4799270968969
CLSPN	42.9104454767916	45.5842286511645	40.4070046183108	36.0481934423077
	38.6454098044474	40.9506062495231	38.1793598983615	39.853866204927
	36.2733735494625	37.1275334308172	40.0766543123257	39.0536056496869
CLSTN1	494.162646055732	456.023620287811	631.632335640448	
	263.21493129287	331.762920362224	259.220844287491	221.847615564378
	184.466097348908	572.19538884395	492.519023728038	534.881442644054
	433.194113859912			
CLSTN2	55.6268253440479	46.7591817286632	46.0727230219512	
	49.5424425850549	47.6884372645373	66.295597720304	39.8695929627783
	47.8947595316832	43.8482802038826	47.1001757441025	42.4580504587581
	48.0350549043063			
CLSTN3	63.2753814090696	75.5775406974686	66.4079972657486	
	57.4595416719581	69.1862663389904	45.6129956328415	61.5000955267432
	52.3068458655445	72.0655217037557	63.3872214856708	63.7598547294225
	52.9609836781499			
CLTA	364.628602969366	426.276230164353	260.062749979574	375.529704925121
	308.183340806373	449.059703234741	563.573152902421	261.195021649777
	390.647843814517	333.421080658854	351.883708151967	403.664724682094
CLTB	612.014486689487	179.158053533144	477.410937135204	377.573838771285
	252.206029058968	589.395944599882	204.606913997301	352.292837622545
	339.854688605186	421.013324906569	465.595459259015	459.546279672649
CLTC	60.2547250212462	59.7098454699348	50.3950981988762	68.6379135603075
	52.2089306840125	52.2089306840125	58.0139597055449	56.0496524902806
	72.1591028956359	47.2299678280724	50.4740079109854	56.0477607422828

CLTCL1	41.9918605927928	49.0986627051784	46.3150221024046	
	38.8964578286293	39.8198309498737	43.9724628401189	38.6537063231682
	48.9393675671956	54.7966692984192	39.5637454855233	36.131485826118
	38.1421709520616			
CLU	36.5000644040258	37.5797639044694	38.0452862258803	39.4469765850607
	36.7800683777849	39.2707964550441	37.9974889154201	36.9876272594318
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CLUAP1	3520.7579823657	3010.38998829232	3253.86278287661	
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	3190.0108307463	2513.15722262176	3478.67753301901	3088.44063817936
	2944.3433949897			
CLUL1	38.6454098044474	40.0870341983328	42.4580504587581	40.0145811166794
	42.5428186846763	41.8613406887824	37.9430145836712	38.745552403895
	39.4433784795209	38.2550371518309	38.1835938174625	39.6682560919759
CLYBL	50.4109031027914	43.9852350008246	49.5143331736386	61.8437321327938
	58.2780916793348	72.1955435994725	60.0981687048269	54.1261903591606
	53.8803543493797	103.199200862158	90.0223113095186	93.7260389087192
CMA1	41.4508241771315	43.7644428186265	46.3411353377615	36.5393857306744
	43.5544347011646	78.812106589086	47.7390230243778	41.1575777497576
	43.2761454096265	40.1179210534118	37.7384958256497	42.357910063876
CMAH	57.8578469574034	57.9509155144056	59.3549213146532	94.4501786945034
	42.3685136297603	87.1735705257803	46.4944619663072	50.857522488428
	41.1742244762318	51.7594352155304	55.5276281380084	56.1136936405786
CMAS	291.42149037871	532.043503787542	535.449763420086	245.853111206859
	265.667557678228	376.453560620912	512.691506909762	284.942182200489
	523.679443405512	224.231862271463	262.9072085191	372.330242931581
CMBL	90.8236750745974	135.769551614412	185.474249522831	93.6212502203405
	152.608998839745	368.005081137665	196.666585862505	77.0262811825953
	293.649670545233	289.625425434103	278.140612054333	327.786619565391
CMC1	86.6655289455628	127.232160404726	148.521769674605	94.080489738662
	213.830284761604	102.607924735378	160.917024416961	88.4439480366515
	165.662539866309	65.2361525412756	73.408861359425	98.9017950719795
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	244.907057340556	166.36685654692	178.422506138888	134.307645598718
	279.337384456822	295.430709655678	273.231509963261	426.276230164353
CMKLR1	42.3433931248155	48.109747794187	39.1799070031819	
	61.3747706295648	40.4639532172338	48.8744644207821	43.3262148375525
	36.1375121409002	42.0621425894624	39.7835513496873	37.3687900733549
	36.9976231206067			
CMPK1	134.817234321847	168.426372075344	116.596605311488	171.992427227088
	171.722423740869	249.002758392739	175.085270395769	277.878824242495
	191.523447800488	175.673196925527	158.843766201769	235.514830602053
CMPK2	44.5282181324797	67.6169355376864	63.3544794716167	42.9358255168086
	38.3561682218911	41.8613406887824	45.8980298854198	44.0390019242862
	44.7058233759912	43.6033221838149	39.6403089864678	42.9887069977696
CMTM1	60.7556909485011	44.8942011457385	50.6486940895674	55.3345906164297
	42.9627566278041	41.159706131351	54.9765783642973	54.7897614560757
	44.3440839686558	41.1222709786153	42.4580504587581	40.5703581862752
CMTM2	41.7397731376692	48.5905518770847	50.3950981988762	377.679662622526
	39.0564222526273	87.3429006429216	135.737771384104	49.5185112777773
	35.3227485563945	42.3606390470387	44.553780984244	37.1747156131306
CMTM3	273.645674189546	137.239944506217	115.93159653774	247.47601939651
	92.0958762013613	158.918242816842	242.190059393491	227.059460958349
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CMTM4	110.818741525514	69.392742408248	63.0383605052305	53.8658229797154
	59.067083526499	54.5358897781765	86.3793067659925	126.882948837851
	61.8529316708431	73.3479915711031	59.4549267937433	77.951185234781
CMTM5	35.9305494063137	44.4411734611229	40.301483914446	41.7614975630362
	36.4434672195785	46.8954576545929	44.6032218589199	40.4359177791566
	38.4344387289956	38.957687788868	42.2618615571566	42.0424641526302
CMTM6	368.727384734032	473.455955645297	441.247306467645	1051.58050264114
	551.490493022416	226.553946570328	355.495119544081	390.489537450621
	542.467997217663	277.12373983597	420.761600667193	466.935292808402
CMTM7	310.706520144173	312.530335465784	361.632211543977	499.744856832174
	1061.61186520958	295.69493803986	795.381998233245	316.185342210304
	459.182372959714	657.031980628955	670.271164195182	665.510487460287
CMTM8	229.697141930047	226.202485756581	252.487015579489	136.786772972738
	319.092568066532	107.60291670075	273.231509963261	212.813224717262
	184.218705402964	159.949298350852	218.19156738004	293.702642091269
CMYA3	41.0608773166058	46.1569135229922	41.528370959196	39.2780515621926
	37.8679241954337	42.5660695551615	38.0598374201407	41.7419877611072
	41.1742244762318	37.3179578037963	40.1742127891824	38.3291713594599
CMYA5	74.6776631832355	138.418964807714	106.175784900392	54.2886483704949
	77.2608629053098	85.2805684630976	105.382126899524	91.1834104205004
	116.094881058504	245.630020408551	178.012676342712	96.6957892186886
CNBD1	42.2455707947223	39.6123051184545	37.9482157381008	42.0102671859606
	41.1868052124344	38.9378717994178	41.8315602975157	42.357910063876
	37.4540772310118	42.3606390470387	46.2560238004757	35.4484652445078
CNBP	370.495645380436	555.727708387209	549.407911286514	552.860979481958
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	68.9766943946607	46.1513019317765	78.1623301184313	379.031536537372
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	37.2810767789306	36.8059561571675	40.0766543123257	40.9683275553869
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	43.5808453440435	39.3483872785093	39.824238926666	43.0390857698452
	39.9871741554388	39.0648733099061	42.3440399888092	45.0035308952466
CNGA4	41.483412492426	41.0226232127351	38.941855825269	41.1507980856436
	40.8873907150245	38.9661430990729	39.0458123429605	45.0972184964705
	41.2424637338424	38.7008388965825	37.4642807402741	38.4829727716328
CNGB1	50.5670783769975	42.8542642792862	50.2869791217819	52.5307002738469
	52.2089306840125	44.3648993568405	59.9792284253187	63.7002949745101
	49.8304479381623	58.5087296620514	46.0905079010237	51.0013344286851
CNGB3	49.540449125788	49.4067286971348	47.646800205189	46.8954576545929
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CNIH	307.754078087321	340.311633794489	301.139592414061	365.860501246879
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	45.7349698678081	42.157627240486	44.7980740332174	44.4455094736026
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CNN2	421.971171686029	353.751797948675	295.69493803986	404.674869177442
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CNNM4	88.8760662992208	60.4646208319121	74.4508307047509	75.9099205260748
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CNOT4	110.973625869849	88.8772406115484	90.2790229242453	88.9641595603127
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CNTD1	46.6348258763289	47.765848710116	43.4709415392696	40.9607305725196
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CNTF	41.4508241771315	36.3110701990588	38.4043916290561	34.4382958501338
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COG7	83.7215159198897	99.4123924179498	129.2860308084	88.3459116251233
	80.6200293361016	88.6287852712744	89.2913927776683	97.4421930425128
	80.4554147910354	120.447568925399	96.5451512198207	97.9497090233081
COG8	55.5276281380084	54.4190527512508	70.6592421895338	50.0526763693329
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	92.8206287414481	45.7911932481722	49.319499137678	44.6484005362281
COIL	188.887559923238	173.511692216696	198.623556176842	138.581471125405
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COL11A1	361.776841675393	41.7614975630362	39.6705473876526	
	59.3618843678775	40.8873907150245	45.3424709970969	39.7264117629268
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COL11A2	42.5193208629123	39.0592366229872	42.6981470312295	
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112.659254685552 96.7351644023249 105.267519627444 45.1694246393676  
84.9280683258012 61.8824218975538 97.2865629929716 106.985301705486  
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40.3180310664156 38.9496515344837 55.2515150764173 39.1539892144371  
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2771.14077845128 3502.80810319252 746.252816568691 225.875798191473  
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COL28 42.6036491382658 38.7344853699576 42.2577689927563 41.3027031037343  
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COPA	1250.15619347362	1081.97502255142	1194.10154988793	991.630429625437
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	2201.39729904166	638.848775860866	668.961646543849	770.715044136717
COPB1	329.437593022939	411.254448823371	294.620463776036	474.729653426958
	296.532363090593	367.451332073134	278.507764368929	355.04502859751
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COPB2	567.827069916244	570.997661726825	429.725397949276	539.32996290794
	686.154904023493	451.13133250897	495.359878931451	423.254211470935
	399.21864362319	218.217851814655	267.261896105785	355.351648424266
COPE	467.884559162462	538.153124145211	510.379313524019	599.670771796585
	640.407302868904	477.558242266308	500.672147150237	397.745727767552
	581.396808977873	302.422475486532	373.626843592567	351.039814818516
COPG	510.525676243746	335.330937634207	292.065366215278	400.760646547012
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COPG2	71.6849360818041	83.8850034281243	59.1040441894478	52.5307002738469
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	114.535461066963	82.475816811779	63.4323398447015	94.8717345601966
COPB2	44.436995101921	45.8980298854198	44.3648993568405	43.7410507935043
	45.9104478407175	51.5522731200852	46.4388841354122	45.1714698794331
	49.8304479381623	47.0055981216687	44.4688999098904	46.9867599298218
COPB3	357.254500791202	430.618167106529	410.623529765253	472.522115719366
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COPB4	175.028390974125	182.219366179899	261.6201598868	190.960237766104
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	179.629622763381	155.270252661048	165.942795019496	294.7772562683
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	952.16345035163	451.520414426616	444.738154053278	582.017297217368
COPB6	160.702832529922	177.878878992191	217.575115287224	211.926421068313
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COPB8	103.252085427319	74.8893925448138	87.539553421006	88.1494891612632
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	82.4164506744	77.0927030014721	81.0295607064541	99.4546022538476
COPZ1	260.85727391155	324.320137371059	312.984737387254	271.206999109791
	303.323289734056	328.46798329618	329.763197973922	473.223156200183
	476.653723741096	322.509777895373	254.472291205905	319.954889553226
COPZ2	99.3956523785983	48.8584917918986	47.0940613507321	92.8026641003757
	51.0107745412152	127.115038236278	43.9450023643394	59.7744650739434
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COQ10A 83.1614238528477 87.6763065012524 90.8831233784641  
 105.234356571498 88.9038123445083 121.236881661832 94.1289383735162  
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 134.335592890814 125.393232344778 120.289145237975 132.684895918889  
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 178.156332261759 332.490954010208 294.7772562683 233.381378925304  
 528.242677613584 322.509777895373 296.39460008432 335.167786298149  
 COQ6 81.6647246398712 73.3270037834227 121.562769658314 66.0397471691747  
 85.3681894044625 91.8986731227209 80.882176929636 77.7615826856723  
 107.490296194878 109.758297200083 98.1835264890769 98.3733183587283  
 COQ7 49.3463416794995 68.2521461582047 66.5285423077808 46.614092935749  
 54.4586176399381 69.7677752398541 59.1774824918359 52.7787010032051  
 58.9056300364078 71.9124897002253 80.3500323413132 66.6841624416436  
 COQ9 368.727384734032 413.31638457585 730.168814097451 258.973633899103  
 240.731386634957 471.297503316471 455.444228161475 294.849830545881  
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CORO7 98.8719561245756 130.691004726616 123.597489107285 202.983984966874  
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	37.956732373465	52.7156971154405	35.7055410599146	38.3684202018524
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	43.1892285249551	37.8414621798121	40.2154497375715	41.2040352443154
	41.074824727477	40.9607305725196	39.0775870687758	38.9891430655409
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CPE	88.2427413480277	60.6080172588224	66.737740728688	66.224559122062
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	49.7235523248653	75.8976034525022	41.8315602975157	46.3685439301234
	52.8502823653368	42.0621425894624	45.310660704531	59.987045425047
CPLX1	44.9896851005259	60.4646208319121	70.8606919488782	69.5544840164738
	96.8490167966217	57.4777075615651	45.8980298854198	47.9942520395434
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CPLX2	38.8322787989855	38.9338521051669	41.0752399035779	41.353786352147
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	41.1742244762318	39.7453420559776	41.231791494452	40.6134262962375
CPLX3	38.5007204246293	36.6968906669565	35.2838283525874	33.9645433044281
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	39.4693871570028	45.7300501624017	37.7136011474903	42.357910063876
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CPN1	34.8099089553046	41.9894412416874	43.4709415392696	39.853175885492
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	39.5806465938526	38.2069499294002	44.2142581488029	45.6692241948108
CPN2	41.0970259989281	39.6995529770239	44.1452943804044	46.8954576545929
	42.3685136297603	42.4155142987678	42.4939802311136	40.1474543172332
	43.6670755115848	47.0797760763156	45.5707650534259	43.5738557773903
CPNE1	172.237164781821	170.87055409699	174.559216176175	116.547937420457
	228.254228465645	142.789889238338	197.895987726243	133.11655169884
	109.922909644299	228.571334092678	226.785831708938	87.8505898087072
CPNE2	49.2595762436995	49.4982025424177	50.0748292497578	45.4634652319753
	45.1137938810047	51.8103411703261	59.9792284253187	47.6952179922944
	53.9287524861617	44.7958122466628	43.4709415392696	46.4499258373233
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	1963.91365010531	1125.31394383117	917.631567606105	588.247843264181
	990.431472174705	872.305108096296	949.278493776928	947.656220635965
CPNE4	40.8681871019812	46.29198852834	50.0050760710506	35.6027791404152
	49.8304479381623	43.9724628401189	40.4359177791566	50.3082459161777
	49.641159251878	39.4710743516517	38.4689132737495	35.9604262434141
CPNE5	42.6036491382658	50.6229884142872	49.6347864008749	80.4007868743886
	41.467005949568	44.6524308640784	41.253645578517	41.8417024632349
	39.9444191873552	36.5806287103157	35.5179217192467	39.5418280570561
CPNE6	40.9558083259517	39.8695929627783	50.2869791217819	46.0228732507872
	40.148780650831	58.1798515131249	43.3262148375525	41.9315419791594
	38.3418933808844	42.5664883002833	47.7535797917441	43.1805016690297
CPNE7	41.8767957887205	40.6695495527761	40.9856185999216	42.8742421276144
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	2911.10227993347	700.477686061791	1384.80615431656	935.815928529014
	3244.27810937143	2160.22713775462	2206.44541412808	2448.64580552439
CTSK	1516.33074288338	227.206974078547	86.7823828209946	1118.62223628039
	180.916465721523	1521.20630233299	64.7023558190673	277.164276391513
	70.0801020070064	423.804472820231	249.051882344771	228.984484917083
CTSL1	1521.20630233299	276.86542239106	335.569876624791	3562.96193568469
	484.482971152057	1087.75682788799	784.951880532127	1102.03940742413
	249.632045894263	414.794323433931	521.029507993615	582.511224532378
CTSL2	77.4999637278723	42.6939394537076	42.5406888281114	38.2041059863839
	51.1368583672022	40.650742261428	54.6414321010929	71.0593419018503
	62.370559099758	40.6022003765153	40.723990462047	42.2577689927563
CTSL3	44.436995101921	40.716553247236	45.989212296035	45.0798408927912
	40.148780650831	45.3882138838137	41.8315602975157	38.956280281655
	42.357910063876	38.8507804383261	44.0409178714232	37.2810767789306
CTSO	128.635811501506	98.4175422336425	141.154520472188	131.57403028894
	85.7842344710572	180.916465721523	83.2162112994735	134.743068051122
	87.7881690937563	143.173898886465	135.824520574227	118.115557136662
CTSS	86.8262463672891	69.640968387662	86.7823828209946	481.145001682177
	42.269054475455	90.1080159649841	77.4046818339539	61.130286531713
	54.1745577382276	71.9124897002253	59.6608518093582	70.18107651423
CTSW	43.844855336215	57.0082102559228	65.9476039189301	53.2046867327331
	43.4544762830742	51.1621379498014	54.4934782594218	63.61404854326
	50.5785738734431	61.0935621637178	52.4393177875001	51.6660481331154
CTSZ	226.882600557693	176.07173250529	77.4246856935596	222.16475904496
	114.230358276599	81.6949047529395	86.6798536307388	220.896780388946
	72.5027069303875	80.191847692094	74.3766944386886	123.978615472736
CTTN	275.061444728555	484.482971152057	327.878405194732	142.880684604126
	366.228100574684	252.097980496533	375.697071471585	319.043862813161
	363.215063520042	416.246271724181	356.133736281036	326.250872625748
CTTNBP2	39.6609238036815	41.159706131351	38.8775560911841	
	37.9875302985336	44.0451487108213	53.0290605707162	43.8206425661746
	56.6910078150745	46.8873421271259	41.9666541498638	43.844855336215
	33.5578650644246			
CTTNBP2NL	67.1387898740161	71.0340758556049	61.0370242377391	
	61.2213001749372	71.9737561190706	66.8632294055679	74.416117986276
	71.9771425105735	86.6516906104905	50.4234835272833	57.6831182451733
	76.6707262000712			

CTXN1	543.975237512604	439.770250139925	97.5104526799755	60.4646208319121
	651.078746026341	545.514314651238	471.734457300752	301.525915314179
	240.934550408797	334.583159766096	240.431987635418	155.82546212052
CTXN3	38.8336427948187	38.0834507308871	38.0057289062111	41.3027031037343
	38.7864161493321	40.5281496800812	41.4742337714895	42.3110002461296
	44.8997235283254	39.1177164316495	41.7627910693483	43.3262148375525
CUBN	43.6706764143908	48.7847528954724	56.4779645313958	48.4916117779992
	46.0977687311222	42.750861693377	35.4623691645629	44.9977782988116
	37.1820543575123	42.6793753550854	37.4642807402741	39.9519547348106
CUEDC1	160.187478921145	105.796515736125	116.426770366736	
	164.917385239962	112.23915619297	259.033660186329	113.039124313172
	143.042664581646	104.626873082138	167.799243454967	226.407063891022
	171.705718494906			
CUEDC2	207.943044411392	224.14182624489	312.984737387254	
	226.057278804077	232.847812981531	292.99497881914	382.940842652744
	211.451463038315	209.004669589169	302.79352975792	273.032063533642
	279.448591201269			
CUGBP1	50.0802438185974	67.1209520838357	60.5678281953819	
	42.5193208629123	72.9700748169457	49.4157684139858	59.3549213146532
	58.9081750508316	58.5285779508926	52.2256177934134	56.1822680431676
	64.8254097948745			
CUGBP2	42.175859643566	53.1278271804774	52.5786055354475	
	139.989008296272	37.8305309577781	109.943883439481	46.6198823890826
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	52.1186591838715			
CUL1	122.136867360309	93.1067450332473	114.039396407323	108.991044950132
	146.969565088793	142.731630650904	81.0331497830643	88.9038123445083
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CUL2	221.972553229362	225.654863797316	251.854446030066	267.024267633341
	328.855843739232	331.390452289344	214.073500272341	245.630020408551
	315.960715273629	194.355765743782	204.344278991396	255.284866561352
CUL3	45.9090659324223	41.8073910693411	40.4070046183108	45.5869891570251
	38.6454098044474	49.641159251878	38.8417151851134	43.5544347011646
	39.1790517315259	45.4614234442527	47.6125796208753	41.4508241771315
CUL4A	224.914980996667	165.548537317115	202.833844963097	192.700843009002
	251.105933757167	213.590067519021	222.453547273598	182.343696914747
	215.08694410402	165.613176704286	183.820203505757	186.600931545083
CUL4B	72.3388488936832	74.0039764902057	64.6446465846487	91.0346886951891
	78.0077300979911	89.680151549258	72.6959688212342	74.4508307047509
	66.8632294055679	96.0236731791095	75.2391243965793	90.3041737295567
CUL5	181.45962058846	252.949225605064	171.623830248512	194.395766807005
	222.92930674999	338.475097952023	193.262615637464	175.909221705119
	160.283895105835	256.364301298918	233.96534264787	221.123510823097
CUL7	51.2851682978581	46.9919960628953	50.0748292497578	44.9370339275041
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CUTL1 172.237164781821 220.217797955745 194.666769955149 192.264432082651  
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DBNDD1	119.795228959021	92.2095095678497	76.6346767983285	
	35.7674462337723	116.817127851913	59.2643906275025	204.944787289897
	113.767996184128	117.072965367702	57.8585041080995	58.133863696399
	52.0863423572635			
DBNDD2	286.927016665685	731.071171171638	306.487935692954	
	615.442484911026	237.632703283663	1137.99307039386	756.801598119483
	245.853111206859	100.344513700137	806.34906276292	557.275332269647
	715.662312404643			
DBNL	416.052744271365	373.46798029115	442.711822532078	506.75912743556
	347.750020791938	383.578947165143	324.126628444078	460.602626145229
	396.167219131922	460.865101118125	440.728435508514	288.687391623935
DBP	48.0201377454632	50.7487159427973	51.223859150798	56.7927450229377
	60.7495043977707	62.2818512646893	59.3549213146532	46.9986083378817
	116.949813289388	78.0658258913875	64.3032703931013	40.5703581862752
DBR1	53.8856501960117	56.939860285007	51.4308501933893	45.4882438975269
	51.4092491522288	46.3203995372658	47.5130990528612	47.6952179922944
	55.0748878261048	42.5193208629123	52.6547683625018	45.9104478407175
DBT	124.599352191013	168.897476166126	148.3842032507	97.2865629929716
	148.582198572949	133.877825732645	149.231260844854	112.428734515811
	144.300051706447	161.7095047889	179.897685693038	178.592741163095

DBX1	40.6559419616644	37.1685072112618	34.6977013306396	40.0698728584484
	36.2048942610546	38.2293008890613	35.9894133432376	37.33030683349
	41.1742244762318	38.8507804383261	38.3684202018524	30.5239050647746
DBX2	39.512606833112	40.6380495994768	46.4569566520107	38.1421709520616
	42.4493032770053	42.4155142987678	40.3302268293707	40.8833572570383
	41.0476065156912	42.2614524730856	41.134180463103	40.8098117292322
DC2	406.964801954621	452.797096652556	325.275883498219	446.613670519745
	538.427311162325	298.031228833741	292.47671022688	179.322661675979
	481.145001682177	129.161393794351	137.360931076154	361.158558609751
DC36	46.9939712192224	49.1283590719461	62.1893884200745	43.8002456102021
	48.5000946421718	45.2852528185486	45.8980298854198	49.5185112777773
	56.702421372165	46.1390887492649	47.9942520395434	50.8442982601142
DCAKD	407.336051853854	284.437758089699	196.465477936749	214.073500272341
	284.795064481553	297.023913988137	491.8684831079	578.456468865003
	353.810269076023	979.468753716758	659.666977039793	683.75696650704
DCAMKL3	47.9175508887533	46.4385386401326	42.7303139017786	
	49.5424425850549	39.9697332660833	42.157627240486	43.4544762830742
	46.0633179231318	42.4540072551568	43.7303813515864	39.153226699662
	41.1554481567603			
DCBLD1	60.8357760968871	80.4822328865	63.7744603935682	
	71.2572485987604	61.3077641493507	51.8103411703261	56.3376046940285
	57.9713749600418	61.6839343510302	62.3233491851723	53.0798381965427
	65.524821699432			
DCBLD2	220.682149473323	65.1291617069903	75.2237417063897	
	136.891616331257	86.4195039096886	189.111092737256	176.520449609867
	144.813029178278	118.816772641597	199.858233616116	134.697808298417
	136.947616119439			
DCC	42.1537476443423	42.4493032770053	41.437237454134	45.7397504535169
	38.6454098044474	38.5252456306656	40.4359177791566	39.1652965788406
	39.1790517315259	43.9450023643394	47.6884372645373	45.3763275588341
DCD	41.9407041937973	45.5842286511645	41.3366779545815	39.853175885492
	41.9842695818285	38.8336427948187	45.223075311113	44.7044140979108
	37.5469247328848	43.2988017098387	41.9083581529276	44.5432192783161
DCDC1	36.0144420013819	36.9994058279362	40.0998167098057	41.0726336841311
	41.2740822675592	38.7340969861754	42.1607322031054	40.5158867964016
	41.5635499110307	42.6793753550854	41.2598458726002	39.5418280570561
DCDC2	41.0608773166058	44.2630383225933	38.5045333213784	38.745552403895
	41.467005949568	41.3553369544097	85.5027511448958	78.253478446856
	42.9020321355927	46.441301934328	40.4504608195666	47.6938628797168
DCDC2B	46.5549623118323	38.0226905622357	41.2365089689635	
	40.0698728584484	37.4470183315826	39.0266821712099	42.8684958525042
	42.4580504587581	35.6139301508335	40.8970401536578	46.1673159982664
	44.6484005362281			
DCDC5	59.4448586839717	61.5144360539876	71.2681122787939	82.0292880742189
	86.033725825968	72.0073363366137	83.5149142053137	67.3976855661302
	67.3230935444252	65.9189023794337	67.6699686085575	79.2525964926483
DCHS1	54.5358897781765	51.6060290544385	54.5191471810265	57.2856683017619
	57.1935729219207	60.7488007939604	53.0277416531043	47.9942520395434
	56.1733549054832	63.6197695952215	60.1466326805616	47.3992733452821
DCHS2	40.4179476219497	40.2493681589104	41.2365089689635	40.1804147506786
	40.0145811166794	41.9069736908705	39.700936357233	38.5457716679071
	38.0702079388879	39.3113207075992	44.3763859390287	37.3600014814388

DCI	83.1614238528477	114.41703170676	114.734157967466	80.0042268333735
	105.589475270494	125.934747056908	135.737771384104	103.199200862158
	179.886168478179	116.099186392258	139.071851755156	113.624887028422
DCK	77.0301627655229	101.699631771662	80.3060865378414	111.071209057746
	75.7947206223934	86.3185927557402	86.4114854104675	70.4262478188233
	86.6910280940418	60.7495043977707	61.0979269700412	72.9580216367379
DCLK1	71.0733129130898	56.3263223563484	53.4088637045445	56.2508140932179
	53.8260140375214	142.03031230486	64.3669451425581	71.0197205018137
	58.7382738968248	65.429256309049	67.6699686085575	69.9767092409915
DCLK2	63.6287257620165	45.7979032939211	48.8623729374733	48.7646976789783
	47.0954207417646	58.9056300364078	40.8681871019812	69.9144520559912
	36.5474283500601	55.3477556906605	54.6738135880328	55.7802841481067
DCLRE1A	56.921728372453	76.1682394916873	85.5839487225537	
	56.6458456890715	86.5513342734384	58.1798515131249	87.7107079534841
	74.9541456286637	86.6516906104905	84.5055910320032	76.7063975550116
	78.0586153423713			
DCLRE1B	44.1294459089314	47.087835967892	44.6032218589199	
	41.6564075217517	43.3332476888305	39.9397419279057	47.1345949868029
	46.9986083378817	49.3780606970538	37.4302011516587	42.0750889188255
	43.4709415392696			
DCLRE1C	118.923419920947	83.8658743784404	91.1363393944977	
	158.769954040462	83.6438735616921	93.3718038663074	137.658868649032
	180.844663304872	95.1037791424727	156.197625493702	160.605530211736
	125.197314240529			
DCN	3421.24021192326	595.790464730847	268.144525192544	2009.75680599899
	923.470702344816	7785.77078492993	104.480361196422	681.474524031866
	95.0350792557735	3905.8371644287	2650.09507972593	2978.46032143413
DCP1A	92.084526929319	96.6963826355216	93.310557793228	132.52749757795
	93.5717680539357	125.81889994067	122.514153407264	77.523734787944
	101.46584765758	164.176142753482	134.994839576312	143.278668481091
DCP1B	44.6231541342	51.7983110178095	51.6159542017038	60.1837189855762
	53.4109882045447	71.7021670182761	60.7992483126292	57.037639245179
	50.6750785584772	71.2409890549638	64.3824529624475	55.5712957590038
DCP2	226.970981973829	206.931452638325	177.65469867262	246.274692971423
	156.174166381986	143.932614622477	185.165420581989	234.495626550751
	212.187855950414	280.075938355178	247.04098109003	242.792365320043
DCPS	92.3659612653822	127.701556328274	150.545989010484	102.605473054584
	175.362103430164	104.059057437473	160.605530211736	140.698550434486
	160.755701876741	160.056757080676	155.225701588645	167.639975497722
DCST1	45.6517320730042	40.6380495994768	41.8751578329365	41.0726336841311
	39.859345745831	39.8455060654531	42.4939802311136	46.3685439301234
	41.074824727477	38.1042454705119	40.0766543123257	40.7704587752083
DCST2	43.0001432913058	38.7344853699576	39.3709357615493	36.264823544143
	41.6806984441849	42.0574848021044	42.2577689927563	44.7044140979108
	45.0017158586743	43.4885245598939	37.2018803984555	40.8681871019812
DCT	40.2543341073001	44.5152708955623	42.9104454767916	41.3027031037343
	37.956732373465	41.159706131351	49.1067959632109	40.931294690669
	44.8997235283254	40.4136535208406	40.9157352260901	42.6758568421347
DCTD	303.744307989358	545.827286197333	318.069132873489	257.506228440451
	504.281506941044	307.754078087321	415.05124917015	228.08291792003
	310.900527198512	352.246108891022	426.622204035624	342.146013966482
DCTN1	159.248015095017	123.720102870283	151.795609904857	138.486962379511
	132.81898450496	197.103673938152	122.642481894309	219.238235572894
	134.968128884298	211.897320355251	221.083802855232	173.288267403695

DCTN2	991.630429625437	808.857027942253	1087.75682788799	851.108027634251
	682.35345164708	1260.45604038487	1196.18785007729	1591.51486001004
	1228.1735887278	1061.61186520958	1174.92419086759	1103.90449800536
DCTN3	342.300139006451	344.133384411423	265.790391813663	314.782545392841
	271.50380898418	406.104588997462	387.631477822638	258.726193861248
	200.986069552443	279.782392390288	266.581466060604	258.375785708747
DCTN4	100.057155418659	71.4197504261453	78.5325880060762	102.971363152434
	74.0735632658567	94.7008981904016	68.4380822448123	109.326279686847
	105.549249728506	151.451107406752	127.708268637068	123.978615472736
DCTN5	213.140641182603	212.945601743319	308.931677425404	223.316311787046
	229.697141930047	231.893992191022	181.064239330482	270.947794977829
	251.184621899165	247.547769833089	308.931677425404	354.38923772101
DCTN6	127.50316411791	126.775432305478	197.813848976726	168.561260174501
	82.5170409503063	211.596652798395	141.69593269802	80.191847692094
	114.5696064637	110.164155258574	127.78061946174	192.003788858976
DCUN1D1	59.7961440557352	58.4134572546373	64.3655212368264	
	69.5544840164738	81.6949047529395	79.4916415027015	60.726977722583
	57.3286965007828	64.0903425729408	42.8936990772838	50.0303076717704
	59.3082373468217			
DCUN1D2	44.7044140979108	47.7962548556026	53.1144624658538	
	47.0874209746031	46.3607182640185	43.4263583096036	53.1884505015411
	45.9604707098953	46.6944238390932	47.0055981216687	48.2910530887214
	46.0633179231318			
DCUN1D3	143.761359357965	110.666686474986	139.693327116993	
	573.832332097619	115.229070906222	215.955919625615	137.547711779867
	206.072527867605	112.414189401193	155.519517541864	182.188883821722
	187.462631817772			
DCUN1D4	125.402628368587	97.2803806915572	138.036631806718	
	114.979124960177	141.180682718758	257.194689822426	135.012695962236
	126.930102684077	140.78326016606	311.361885152025	235.682605856428
	217.6996233059			
DCUN1D5	205.898127436939	252.775631043952	246.274692971423	
	184.50283792606	452.969595001684	246.151211515664	311.668075784386
	189.950108471943	351.439404852971	113.82565808481	106.443777149496
	182.551901102169			
DCX	43.9309845324767	45.5587966941116	40.9818899755491	41.6045220683604
	45.6895223823001	50.0404995046748	44.6809101024392	41.6916508480321
	45.0997987980157	41.8613406887824	42.6366765186182	42.0709558258414
DCXR	239.466489599238	284.620447030305	250.866560791828	182.37433006793
	443.863346367342	187.238252376588	489.622327794168	343.262403838579
	474.267141780289	331.935072199058	359.83890067786	230.520772006119
DDA1	406.104588997462	593.345148568451	509.004054793277	391.187784616808
	995.397944432196	392.51606894011	585.771656887036	501.148339791372
	398.139730642919	321.818380385895	388.580556899321	302.422475486532
DDAH1	107.466490458133	86.8262463672891	61.1076362129586	55.6481366056639
	72.2665537421443	112.23915619297	195.262845535544	226.168990555083
	65.0810479794187	223.501516374076	168.326515533208	233.263058459431
DDAH2	59.220967994972	41.9894412416874	41.9666541498638	39.3750969348308
	39.3667161654772	120.231435193839	75.164719839017	67.8061298261394
	46.6944238390932	59.3618843678775	70.4204944097269	53.4735821194294
DDB1	452.139416552986	474.155196153863	544.355979695242	426.622204035624
	928.2304192226078	454.02808608679	797.019657306322	883.06773454117
	606.481020597082	782.639346040155	697.57030127315	506.585006700107



DDB2	39.1590964332473	50.3586212130973	50.5089777244781	43.3078542962968
	43.6587492470348	44.9896851005259	45.7452456977857	36.0306975524309
	46.4861258030402	47.1001757441025	46.8954576545929	47.2131144508464
DDC	41.2424637338424	45.4143854024453	46.9040704638073	41.4273122914951
	46.3150221024046	45.6129956328415	47.1345949868029	44.797320243931
	43.8482802038826	43.6033221838149	43.401782064778	44.9070250604284
DDEF1	332.137622104526	241.706783147271	172.381808887528	585.771656887036
	202.459251553516	219.702703529829	214.369365247268	311.301613620475
	162.735117558467	187.331614826395	181.381479219186	207.245428311682
DDEF2	132.838429478396	105.34055372228	56.6888826857797	83.1614238528477
	72.828269171954	89.4747568145717	162.486448421519	342.73665541549
	91.2488561751625	101.351907645804	80.6032289311256	113.491158368594
DDHD1	36.5393857306744	36.4564050256915	41.1367478979484	39.2336402665402
	39.3999056968598	39.9777866059804	40.0052661202207	37.7612949798895
	39.0458123429605	38.8173773425835	39.9586075662602	36.8209886489281
DDHD2	92.6545309624315	95.0738959950301	89.8354888041611	130.775349446374
	143.084029849218	131.727983826985	141.784776736918	115.132600341395
	75.4572860692649	106.049736669661	97.7415824971555	101.832945816193
DDI1	36.0144420013819	43.9421822132391	41.0356368374708	41.1886975241176
	46.6397391251762	29.0303154053123	38.4005795891396	39.6474008369935
	37.0126425326534	42.0621425894624	39.6403089864678	37.8490162439785
DDI2	39.0237504776589	44.9863726205428	39.5954353681031	41.7614975630362
	42.3536549114165	43.1180113655693	40.968974769473	39.7509165247419
	43.9204029310411	41.0057887014368	38.7337086062875	40.2237056928605
DDIT3	141.471672990444	78.258486366912	80.4060693489113	334.527003257901
	58.5450868286167	183.243195292141	100.499763255098	125.484233748017
	215.955919625615	214.281036491237	214.281036491237	151.641746442323
DDIT4	2323.81110653289	315.960715273629	4597.60989502097	2036.72286752819
	1896.06380611235	719.815240381415	1423.29307392266	663.372296297652
	13656.2581082905	1801.44003951248	3143.97163345458	4277.93019582362
DDIT4L	104.986694941968	51.524711857679	49.9256753636167	
	45.334106390212	62.8270556619309	104.059057437473	52.4111687156893
	43.3262148375525	52.0583273941813	76.7137782332689	55.5567699051046
	42.4607795638552			
DDN	45.2875173643252	38.9338521051669	38.2280071951674	44.4367387274922
	68.307513091369	36.4986986135769	46.3057385979341	38.3684202018524
	39.9444191873552	39.8873706855774	41.9083581529276	40.7704587752083
DDO	43.2239171482126	48.9800181621986	51.7663108516261	39.5748670524951
	39.6535880152834	43.006072841282	39.6222000738266	42.0778399888414
	41.1742244762318	39.7397636748413	42.0750889188255	42.4322338033273
DDOST	560.413725186282	906.833938613875	849.412637017524	459.92905629125
	1152.55315876935	558.65313710197	911.661341702443	996.520340280883
	1018.35211991691	621.980260052085	678.684833360104	539.32996290794
DDR1	235.682605856428	246.313146942736	245.356135592468	48.4916117779992
	167.095818680513	67.2397076992564	227.170944398338	142.789889238338
	357.574415292533	260.185079572615	246.568253751149	209.31241212773
DDR2	60.0793579902362	50.3586212130973	43.2721716572958	79.7061415085215
	49.0828761839116	173.08677862231	42.8684958525042	55.0698932795613
	43.7078399718247	80.3915591207869	102.304422999511	84.5354986509039
DDT	594.611678976716	959.549658414082	479.318513108472	666.816487335088
	1588.70376317303	884.036280777358	2108.03351084959	700.010354583503
	928.230419226078	796.359355922952	792.022171185649	846.773659307087

DDX1	1470.84169670955	862.031722874406	788.232434009173	696.529869192906
	1313.92053019421	1120.83891847181	2004.94135236716	1925.20977162704
	923.470702344816	906.833938613875	889.638287212686	906.833938613875
DDX10	225.50098418159	169.603165827302	139.445008123768	128.786137360755
	332.322497133752	214.980684661682	184.808179948172	292.156216736355
	170.750057881363	170.255635587223	179.214713709599	176.064476306748
DDX11	54.0536858212253	52.6398559444048	67.7235257493648	42.8899872337087
	54.1745577382276	51.1621379498014	63.2113624676341	47.6397712007919
	63.2409684531772	54.7061116419212	49.4145011642763	54.3820590274321
DDX12	46.7728879680671	43.1524467741439	47.8360317478571	42.7577133601564
	43.1914709389238	39.6575367310267	45.402658694824	43.0963492115408
	46.4520905520834	47.9885084629869	43.6897331183502	42.434729228822
DDX17	130.336599857526	154.455976468088	181.2179249806	154.93193897888
	113.388372364837	118.010166045155	140.128033028434	155.956315815754
	116.318299211619	217.743953847269	193.569399061809	172.777241940677
DDX18	427.451886998067	537.213035625492	355.67721196018	453.652548085387
	667.837116137964	565.411298018845	362.927960895643	377.491895827114
	446.613670519745	372.473625569296	451.290681710534	427.540236966999
DDX19-DDX19L	51.413025495745	48.7847528954724	47.5673419710251	
	51.0175677516029	57.8039717833131	43.8582747295766	46.5650556481721
	48.7814131120945	48.4869909888679	42.8936990772838	55.3147456054175
	42.7782216342806			
DDX19A	183.2003374677	146.268519891864	187.711309781257	
	141.043326064913	170.829628173552	181.531005915656	184.536327776767
	232.048938339214	165.992057520727	166.129723762515	226.580055691897
	170.593589984253			
DDX19B	153.237127853072	197.598956071422	286.68367978144	
	165.72797054597	166.25909484446	159.937192675974	182.31306890697
	179.694413858411	172.574996256912	146.840603547323	130.72385089567
	129.605603092944			
DDX20	40.3478825593224	43.2649781354792	42.3536549114165	41.3027031037343
	39.9697332660833	48.0350549043063	42.7431359850339	41.9315419791594
	46.0106098064475	49.8393069675192	49.5923712603197	46.4499258373233
DDX21	197.776069056927	310.900527198512	188.008141649466	410.808988840343
	398.641868389511	332.490954010208	215.800662077432	166.1490536844
	602.726022292973	105.53472751588	152.843785599892	290.710970844525
DDX23	347.486523804413	346.438778257772	300.732955139561	253.140146266702
	259.332340491331	305.959643033169	434.223722811041	369.032450063274
	502.67939538729	300.762511215441	350.796638646601	265.570814613305
DDX24	477.263677441074	221.450737998571	321.686871145301	326.963277148673
	331.474920376907	602.441843384617	275.096637886925	241.017227991238
	333.493839176426	499.744856832174	439.558287621096	398.049525642349
DDX25	43.5710871617107	38.6704566269103	42.108130037421	43.9744941494111
	40.9416717019827	38.6704566269103	40.0052661202207	41.6466169548846
	41.5635499110307	40.9558083259517	43.0971787292711	44.2527566343661
DDX26B	42.3620028137457	48.2220547806679	50.5505693464794	
	42.2496337895968	49.6507190068324	41.9069736908705	45.6042625176633
	50.3972033014227	45.4799270968969	48.0211752672327	43.0710577955487
	48.6795178347248			
DDX27	80.6434122355417	91.3941563889513	71.0340758556049	55.8709511400674
	71.7263663921367	89.2185019250322	109.615289274998	113.917429432477
	79.856662992182	68.6788460999238	80.7198077526005	61.8529316708431

DDX28	73.1931742801095	61.5429260998857	68.8098607236981	45.4634652319753
	68.9766943946607	89.680151549258	115.98265270452	78.1448136847078
	79.7882961549974	89.8035133597498	75.9802606133139	71.0340758556049
DDX31	65.6165636276827	71.0593419018503	58.8188963227059	57.8277957325085
	65.8319449883221	61.5635554619635	78.9900928241723	56.3106156221316
	61.5807110546718	61.3529667465225	63.664265793911	58.9836017745712
DDX39	277.367257933324	445.644244692294	352.339572553069	450.139987981805
	1057.44729389649	301.357530757236	495.359878931451	550.990544834571
	551.915864019927	196.427458710993	251.803102904399	172.540737848092
DDX3X	295.5163490537	368.162822151919	337.51861578231	488.277500837251
	287.494740260715	528.242677613584	281.906398109158	368.913147706435
	462.362735276132	387.631477822638	310.900527198512	503.529187388654
DDX3Y	42.3433931248155	40.2493681589104	32.771863438151	42.357910063876
	38.9496515344837	38.3418933808844	34.1889222434768	40.3357777530419
	38.9006788676407	38.2069499294002	36.5359455830388	40.1700117452801
DDX4	43.4626049853157	40.716553247236	38.1421709520616	42.8235313007746
	36.08956004634	38.6414316877471	40.7910160811527	41.4508241771315
	38.9834959368496	45.9004543328976	39.9899430628542	38.5279745308203
DDX41	347.829279462722	121.744701580607	241.599353653369	212.813224717262
	242.236207196941	147.704325041249	185.924923239764	220.337850438943
	230.927097824131	203.651890041185	230.833432994593	169.818067865324
DDX42	298.252355588344	221.76904201992	239.924746743429	193.806701229141
	272.828896268482	368.318359434313	274.731304343034	282.196234758364
	291.5513298383	350.106705208362	355.00914527669	313.046160403661
DDX43	45.4799270968969	44.5884811528117	39.7411455670172	50.2163892855092
	42.9090346219023	44.6524308640784	103.118579484715	47.2864663693787
	40.6957787921451	44.4652605017595	41.3553369544097	42.2577689927563
DDX46	80.3730667493235	121.236881661832	111.077646506425	103.139459009593
	88.3954618645976	202.01900875263	132.172127966602	90.6347108049639
	110.467254789988	109.192770642308	118.951970882732	116.547937420457
DDX47	310.900527198512	312.40869171788	318.369837408344	222.368324930003
	328.63511311303	311.241353755918	321.61848221455	316.604316194398
	513.57613902662	262.534449975056	270.947794977829	481.905052451245
DDX49	41.3387790895716	39.5050383901884	48.9944486068347	51.949834638817
	40.6723334103791	49.3172204533818	62.801431502597	37.4484310268909
	40.5912213523345	38.745552403895	49.7363778831003	46.8129509799753
DDX5	2164.51925341969	2791.754651711135	2712.36664370642	2232.61002288121
	2354.00192115549	2488.32876359853	2018.28984520892	1879.12037123353
	2300.20602168385	1679.12630849964	1950.93175239958	2513.15722262176
DDX50	179.994715581707	168.307676704652	168.640033281185	120.284321694275
	141.410183156424	380.639020028302	224.665128374218	152.272399644814
	559.763116301175	172.416351632442	178.306763765612	191.482692108417
DDX51	1975.28674300761	1064.35745220225	1182.10714525377	1347.15664445545
	922.047328788961	684.238999553691	1440.41726370246	2191.09005731751
	795.381998233245	2220.90215179682	2077.74475301595	1689.77066894108
DDX52	92.9323002425821	87.036020750455	76.093116738739	67.0402749076279
	110.074666148474	69.4214927857472	113.539485042978	146.534713287435
	115.044790975532	88.7928773498158	86.9543262608386	90.385018479478
DDX53	43.0930293831497	43.0227387991135	41.0356368374708	39.5050383901884
	39.3667161654772	39.8455060654531	40.4359177791566	39.7509165247419
	39.9444191873552	40.8049408996274	37.3687900733549	39.1553169409075
DDX54	116.042856605255	112.542326463419	70.0955779023465	87.6763065012524
	120.825113658705	69.1523164481201	100.289042948128	60.6706478075023
	121.737071786167	67.9259304928255	72.1090339831747	68.0751111916102

DDX55	161.48562926756	178.675242612997	123.162013735234	136.155022329495
	151.451107406752	164.097531361519	156.719353642505	99.9896394343368
	192.861174667738	145.050655626219	163.971002049561	172.192366002756
DDX56	539.471011648536	355.67721196018	440.728435508514	234.873589896708
	558.855313555287	289.909646207746	454.939614583134	408.353336724969
	487.540800793233	565.72800641089	488.089090043145	350.106705208362
DDX58	61.5882375235292	65.8082111065882	63.1450855271137	66.0397471691747
	48.2748123114598	69.9819944829311	62.0404348860702	53.1052228246467
	46.0106098064475	63.0119737420787	66.6788758487969	63.3578893149245
DDX59	79.4832790698673	73.4687357112674	76.826527950236	69.5544840164738
	55.6735944873518	71.5616860050001	63.8294437579951	87.4307271341692
	57.4317879234275	68.4137459386155	61.2822647324366	77.6653462778309
DDX6	43.4626049853157	41.0678614026819	40.4882741869718	50.5310598656998
	38.8456942580061	41.9543948167375	45.1017494688414	58.5406981871153
	50.401623258584	53.4109882045447	40.4504608195666	45.9693232070002
DDX60	72.0334593545916	162.287617963536	136.766779297051	94.5501397951415
	42.6022652963326	101.177486898065	72.4651758215622	66.6320017520888
	82.5344501505114	55.6069214673486	70.8670844767965	55.4635297192076
DEADC1	48.1125722136997	49.4982025424177	44.6032218589199	
	43.6726153508978	44.0451487108213	42.9695585740813	49.6872467499977
	44.7044140979108	41.9635525160083	45.0155543555707	47.299647867533
	42.9887069977696			
DEAF1	74.7206530065877	65.3319639385976	70.0059240383657	62.7108230507424
	69.0975200641705	61.8571521441451	66.3775183389603	60.419911425109
	66.6479153633977	73.7133884699889	73.0403099404	68.2708120569221
DEC1	35.9305494063137	40.8880530359822	38.3166554965434	35.9521941716188
	39.7568367479301	36.1190722948669	40.3302268293707	36.43924066428
	39.5806465938526	39.1621898366355	40.1742127891824	45.1735152121056
DECR1	426.276230164353	815.810781070699	553.328261478032	295.014183084118
	353.598144765197	211.451463038315	380.541502795438	401.202348352506
	512.951288394692	360.668308246913	329.978705095448	344.657779779036
DECR2	162.272853632419	130.239763076999	242.751164798133	95.7571966348067
	200.384444538476	133.514641336669	296.842555066902	92.681224908389
	221.22852405053	152.72007888133	151.255948388415	121.851515410237
DEDD	171.877918435017	111.845105854608	142.49850553035	113.528908699366
	161.948193932343	105.997702773537	117.181144429729	95.6731932757489
	370.917477324773	133.314819245044	105.53472751588	105.267519627444
DEDD2	282.764445883135	164.735191308776	177.958475301951	283.393280512514
	165.522304431988	121.236881661832	216.782658096982	211.685526927495
	265.728967648382	190.592556065939	241.736113354506	208.878921620914
DEF6	69.6449298794042	94.1289383735162	116.709906902201	147.52790076468
	71.2787833369055	61.9432904657734	91.5258329186709	68.4659783447092
	99.9896394343368	120.447568925399	112.565968152932	91.531459931855
DEF8	138.82907142482	119.124583755587	149.139710097196	166.847053797281
	151.775928080246	144.046404221564	157.001241754359	101.516595046503
	98.3126451737573	108.251353392321	109.155021443311	122.914175013196
DEFA1	37.55264801907	36.5219488315447	47.0055981216687	100.606802642042
	38.4540849632254	50.2163892855092	46.7100796279384	38.5457716679071
	34.5633623842083	94.0777119695783	41.4508241771315	47.6040671292013
DEFA3	41.3387790895716	38.9338521051669	38.2280071951674	64.0903425729408
	40.9950639693255	41.8613406887824	46.7100796279384	37.7612949798895
	42.5406888281114	76.7137782332689	38.2795150354677	43.0930293831497

DEFA4 42.9104454767916 45.4882438975269 53.0104469636221 46.7577982595088  
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DEFA5 37.2474303302343 37.8217989841918 41.8751578329365 40.4359177791566  
41.1868052124344 40.650742261428 34.9344532055397 43.5544347011646  
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DEFA6 33.4240466670776 33.5924201549249 43.4709415392696 35.1451084093692  
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DEFB1 141.087571926258 48.4497719907777 307.754078087321 82.7394574977114  
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DHRS4	231.198764780818	265.026710493466	326.500804513133	412.421643885499
	173.035987237848	326.357036514613	335.569876624791	345.294930735691
	295.312692092025	470.231929311877	358.779372054826	356.3185171117856
DHRS4L2	76.1417635449123	85.8945498067934	129.609377870182	
	117.228320608065	66.1650385535549	98.9560329133205	128.635811501506
	105.414552529943	129.252597914828	86.500678864429	89.4747568145717
	115.622641633992			
DHRS7	423.608694638779	537.841677481011	491.8684831079	570.204236909398
	264.263104842911	365.459728613746	376.141477833569	382.538365722661
	284.351747562807	343.990395610093	476.421959423835	577.993850127555

DHRS7B	141.79653024085	123.433224929087	130.10148014895	
	103.961956810572	126.79509061532	109.468741823602	120.96329303892
	93.3718038663074	105.71315237465	133.43526498879	125.891602778425
	149.515611848932			
DHRS8	47.0940613507321	45.7317208802318	47.7737810047679	47.481302504066
	42.6022652963326	40.9506062495231	48.9826868640753	45.7476095696859
	48.0163377492228	46.325232414659	37.8372168909583	48.1627097465883
DHRS9	142.840631375936	56.2508140932179	57.6801614250432	123.04622719856
	39.512606833112	76.0532592222027	41.1742244762318	55.6282425338897
	44.298892175909	47.0474493061198	39.0550139257658	43.0322714179517
DHRSX	71.0340758556049	64.0096843640535	47.0940613507321	54.8412943008635
	46.8674366115656	67.4846787600629	58.2315917325629	67.0904616289706
	57.9713749600418	62.8201270538435	61.6702707724448	48.8670821164567
DHTKD1	54.1745577382276	50.8114699212931	57.0427273538849	
	45.7397504535169	66.7426485694967	49.1013967533186	73.0433648756396
	58.3046521633424	77.9978216366573	49.7259371799014	52.5930185400362
	57.0524725494273			
DHX15	461.394007153992	854.712488657987	671.959673037066	569.377890112069
	792.022171185649	570.824732318332	613.50943414129	459.182372959714
	723.531909526537	618.892379887961	478.682734715193	784.268074988084
DHX16	412.694325761831	390.834121304799	385.512974999198	244.435346243998
	498.284928805673	301.867441371793	415.251775687794	315.163147652199
	320.391231952436	325.275883498219	330.096171705212	305.735573572576
DHX29	216.247225354243	233.72882333861	221.972553229362	191.182530250155
	207.943044411392	263.67173636178	124.687212034276	185.874151272261
	223.749512763927	208.553134986809	271.50380898418	269.745248423773
DHX30	134.646159826262	186.301404367238	171.920449949522	122.284299477218
	260.062749979574	170.390108862804	289.17237603899	176.363810387584
	181.064239330482	167.410607476565	233.72882333861	145.791398829369
DHX32	312.40869171788	219.134220280612	215.15351875081	186.64040927334
	321.359569119182	223.801865347687	325.450452751375	257.80636663638
	221.910075604221	274.02972772427	246.820301517765	327.948814478441
DHX33	152.86270446968	130.121040883877	197.205643078662	107.637618676176
	237.039707901886	126.128760255542	186.759757179509	140.288771064502
	123.817018264773	186.965367827758	159.827302305842	134.567947469561
DHX34	80.2070411865083	71.7533140056576	77.7907484334847	58.106070377898
	92.7836745985234	55.0618818132967	68.2708120569221	68.5328071841649
	68.4720753153522	65.813547096222	56.6086202928268	58.7157078555305
DHX35	89.8567957512307	77.9992448636936	69.4967762263181	63.9570596163747
	94.1575209300592	82.1974756449763	99.7529382840954	96.0654949568324
	80.6434122355417	89.1516394894484	85.5839487225537	85.9286114777649
DHX36	128.436305192918	125.383837024985	87.2316853416374	119.747995520476
	172.192366002756	107.576033955049	120.465621774337	119.965950077259
	128.923092916744	91.6713614282714	109.144663527001	117.520762118299
DHX37	120.630151942485	129.190555260332	105.052418151358	105.790224260281
	130.936053902005	90.2227706363325	142.789889238338	115.482982633699
	156.738940207775	113.008760911729	138.070735985503	99.5531381996521
DHX38	91.0346886951891	118.752208441493	154.248946683126	108.025082988807
	91.6253858792439	119.015431849218	107.610858427836	107.844799332742
	110.517563101892	95.2490714726663	100.234661597218	92.084526929319
DHX40	93.2133061608764	92.7427427543974	103.808640431626	69.1931891474114
	91.2107065307656	99.8323169037315	120.825113658705	97.7415824971555
	135.226924329183	79.9335381350929	82.4005336009159	91.2107065307656

DHX57	45.5342598239058	45.0905928998779	49.3780606970538	43.4933087941017
	53.6334631215581	43.6960408897486	52.9531187309739	47.0540401406168
	49.0593794153708	43.5599890586394	49.5551703887595	51.5437850416773
DHX58	64.2690842803282	113.491158368594	117.228320608065	103.349712762251
	64.193536444915	80.2112932898502	86.5564881117807	94.2678678253657
	93.7090094630558	111.056599389048	102.027922691582	73.1447139654971
DHX8	70.083473392272	69.640968387662	62.4683876804812	56.0794100106654
	75.8306078651291	65.4643755537228	81.9504925867759	88.4439480366515
	85.5711312226989	79.0249585610565	71.8314470868658	62.6868461044048
DHX9	71.4937262725923	82.3344892042646	82.1974756449763	67.9728793995736
	94.2275161759277	85.3086977427271	91.9291200887492	64.9191509252662
	85.9596109950132	51.7343702554597	60.7516146716018	68.4278345554565
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DLC1	48.1952521496489	45.4143854024453	51.223859150798	64.0395697320109
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	39.0775870687758	38.957687788868	43.3085358214154	34.1509644696334
DLG1	34.9138625012006	38.5252456306656	33.7737772393677	42.2496337895968
	37.4470183315826	39.4953494583071	38.4005795891396	35.6825474397235
	33.5578650644246	36.0481934423077	42.8263096141654	36.449101775775
DLG2	43.2135791259317	44.8529259387308	38.4456289125816	44.7401523707775
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	55.1023658447049	85.0653700751969	63.4610447573417	54.4992295592001
DLG3	50.5165823866945	62.3439114913889	51.8122261766744	38.5855564939014
	46.4775637378703	51.9885249508283	73.3881007284998	58.6010484516703
	61.5080959417997	48.1392888470269	50.6473771879221	48.4535991392809
DLG4	110.88526946931	55.3477556906605	90.1284518302601	79.5838979704243
	84.7782034884529	81.9983163893373	57.51482768194	83.2873728545705
	87.8724689898823	75.0665411373616	111.186223357396	96.9944911507111
DLG5	32.742439449766	39.0894172982439	46.3411353377615	36.4564050256915
	39.0564222526273	41.8613406887824	38.8417151851134	37.33030683349
	46.6944238390932	41.8613406887824	42.8263096141654	49.0655215909632
DLG7	76.1417635449123	97.3813557754832	67.895735332714	45.1944222548351
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DLGAP2	50.5670783769975	59.7098454699348	48.8941062980393	
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	51.7538628098347	61.0094935318105	54.1683282066029	57.4078217542368
	57.1441484662045			

DLGAP3	41.0608773166058	36.4002279956519	36.8730514568925	
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	40.3357777530419	39.853866204927	36.5806287103157	42.5426057453993
	36.9976231206067			
DLGAP4	128.766242896259	91.7629175712824	88.2959958615748	
	91.6033269431304	82.1344514651393	134.581057139589	140.866324039667
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DLK1	41.9407041937973	36.9994058279362	43.8495248991589	41.9620007529243
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	36.3649677956953	39.8455060654531	40.5824352835642	40.3316153483289
DLK2	41.8409927585705	41.5996102310128	45.1798080655905	38.9074189954657
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	59.7483827511172	42.3413611855132	40.8746128314437	41.1066323911308
DLL1	154.847446197442	247.511892014861	106.912316023598	123.608921653229
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	42.357910063876	121.236881661832	158.334581991361	132.508880040274
DLL3	42.6575535390785	42.2900457798748	38.0958223740111	41.8778873678551
	48.5666902992029	36.2768299545794	37.2316700720288	118.736188485344
	36.3352882516399	39.3698811593364	37.3687900733549	39.2469742642337
DLL4	44.5282181324797	40.716553247236	56.4779645313958	39.2780515621926
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DLST	238.893145911331	141.611097024526	220.054040993848	207.540972220982
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DLX1	41.2773842727759	49.4493009852254	41.528370959196	42.6222445667107
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DLX2	36.6480005877129	37.7384958256497	35.8265993915844	44.7980740332174
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DLX3	66.2154717217675	43.4396866157171	51.5292723244077	49.3654837541353
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DLX4	44.1834366106487	43.4681646416585	41.0356368374708	40.4359177791566
	39.5111866657136	42.2577689927563	43.3910673889849	40.7752992161136
	40.6533975461148	44.7463386786906	42.4098506918871	44.5029690493211
DLX5	51.413025495745	358.30596676183	166.608353896248	43.5627649099623
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DLX6	39.6609238036815	41.8848959280916	43.9450023643394	44.9370339275041
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DMBT1	209.967057706137	45.7576020206129	44.5134109184888	47.3574589211166
	45.4751076037511	45.9980734733005	63.2726414544553	63.8008894786105
	62.5327652825303	54.3163440690038	58.7389869173495	285.053017606956
DMBX1	51.5033727579864	54.7083331985678	42.7303139017786	44.4367387274922
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DMGDH	37.2474303302343	41.6069493017095	42.3887531663733	43.7410507935043
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DMKN	178.323615832679	260.383969219887	56.8595344107711	49.0816063338953
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DMP1	38.5332184743306	42.8542642792862	41.528370959196	39.2336402665402
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DMRT1	38.6454098044474	33.939263369489	35.9305494063137	40.646702696033
	37.1565984182084	43.5752393599169	42.0605906240248	33.9687743313429
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DMRT2	42.9104454767916	81.2182827624857	41.6079958749402	43.3078542962968
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DMRT3	44.436995101921	34.8137085420423	44.0451487108213	36.264823544143
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DMRTA1	42.442231667357	44.0409178714232	44.4311655729487	
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DMTF1	139.855023065402	124.214669663291	124.992776922316	121.510087314197
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DNMT3B	50.6109448604627	54.6089451252049	56.0245669026819	
	42.6082786891193	60.6628365130306	46.0817481577316	70.3454355021212
	64.0476795495651	63.955655956484	67.5206810636627	58.4134572546373
	50.6937447392501			
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	42.1273928203021	43.5836473788312	41.9069736908705	40.2154497375715
	36.1375121409002	39.5411918095433	46.5650556481721	41.2267153672559
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DNPEP	68.2614370871382	75.3462586192013	58.5212649095879	46.4555908533915
	85.0017995689256	69.4214927857472	61.3620062177524	69.5741225986433
	87.6018870099686	64.0162246399972	60.4620008899889	86.4937293696262
DNTT	40.8681871019812	35.9305494063137	42.9641759692926	45.6706505553383
	40.2449343247539	39.7697110924474	40.369768755239	40.2382908228517
	42.9413736814915	42.6793753550854	39.4410515050885	41.1066323911308
DNTTIP1	281.602712448925	202.103107745135	170.105455298636	
	282.328238928883	192.377506427627	286.68367978144	311.055487966495

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 DOCK10 111.041991642022 127.82585786161 118.720812623965  
 425.026540236907 54.0126916508417 93.9805435116156 72.4651758215622  
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 DOCK11 90.6805895192707 66.0479079234982 69.5937318502259  
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 72.4060089486729 42.750861693377 37.830876898596 40.7311497914871  
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 DOCK4 36.8072833828297 40.8880530359822 44.7829632472754 44.4367387274922  
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 43.8482802038826 52.6879797806876 54.2999306485758 54.293880614303  
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 DOHH 54.1745577382276 55.6972661824064 40.7620472083159 44.4367387274922  
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 DOK1 35.8208542506595 38.0226905622357 42.0621425894624 32.9046688061235  
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DOK2	42.466333667839	45.6948619492056	46.8267540220952	48.309866878365
	37.7170995811297	43.7078399718247	40.7376840028647	32.8834169462007
	36.3649677956953	39.1177164316495	41.9495387255163	38.745552403895
DOK3	44.9896851005259	48.4497719907777	46.4569566520107	102.786429761295
	35.2163900400329	39.2248354955045	37.830876898596	38.5457716679071
	41.2870505273664	40.3235655331796	34.174642681781	41.4508241771315
DOK4	106.219480656782	157.040132256772	144.17470770145	68.4261608261522
	58.5450868286167	106.186051982612	93.2133061608764	80.9092480872499
	100.591821617326	130.812376632261	102.993620677265	100.677422836631
DOK5	42.9104454767916	44.0409178714232	36.178547300352	39.1706564265495
	38.0598374201407	44.3648993568405	43.5627649099623	41.1575777497576
	41.2870505273664	35.8304004211528	43.9450023643394	41.7575097298927
DOK6	52.6960621424156	44.6918600441328	44.6032218589199	37.9875302985336
	47.9128504683618	173.357715186701	44.9863726205428	44.0390019242862
	43.3744503319109	56.8201201798712	64.1267046511632	48.1627097465883
DOK7	59.0463859571117	58.7111274254142	55.8810837854139	43.5627649099623
	58.4383854340181	43.4681646416585	42.2577689927563	54.0507720792049
	61.6839343510302	62.3233491851723	61.1801493883012	50.7487159427973
DOLK	201.180226922613	129.299077627671	117.355761277966	138.189579100482
	150.221698290502	97.9586375307737	144.227861902786	135.361059757705
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DOLPP1	103.561100886469	108.083751469991	82.1344514651393	
	66.0397471691747	129.613152757362	64.5187138759372	163.011116329807
	89.6313467455698	140.187433247353	107.501868837432	102.380096190518
	99.7529382840954			
DOM3Z	97.8141040140486	105.699748702315	107.501868837432	104.335120306753
	123.800965644574	85.0275638433103	135.540738841602	91.6777754418002
	112.743602566917	104.928805304068	116.080897948094	95.1224420992193
DONSON	75.7342400123505	84.5572894783679	102.607924735378	
	61.5515639412892	126.578693258328	69.64983895075	131.955454394903
	74.0831311663524	119.634256037186	50.9506778292488	51.2623287419357
	65.1251519077199			
DOPEY1	51.5888395924843	84.6158251687884	89.7299583757595	
	65.524821699432	51.5888395924843	85.8059456975413	69.6301237585571
	65.0656365694468	75.9909523932333	66.0786923699684	81.8648220673828
	83.0460206754856			
DOPEY2	226.672191323896	97.1634390603131	155.617122020913	
	160.702832529922	119.167027972122	82.5279746006378	181.45962058846
	293.300203370043	129.143252341926	146.046179302584	148.608392563633
	120.641774274815			
DOT1L	41.1523487516364	43.1805016690297	42.3536549114165	46.7577982595088
	49.452985143568	46.0364000143537	49.6872467499977	45.1714698794331
	47.27543600687	41.3321861371202	42.8263096141654	44.9070250604284
DPAGT1	176.687970262952	205.627744150936	163.66696652324	
	136.711122812062	280.680953068339	120.02765867291	195.190044833888
	168.225699005719	185.079035617027	130.812376632261	148.178364767218
	189.705164944697			
DPCR1	39.7576136507593	36.7976562409506	34.0382693188794	44.4367387274922
	43.004943518025	40.4359177791566	33.1392460259336	39.7509165247419
	39.1790517315259	39.4710743516517	43.0016969050339	43.2776458914333
DPEP1	40.4639532172338	34.6306468196142	44.2405728317107	48.1662933382789
	42.1650127805175	36.3845892764084	47.2927436772465	37.9837233601316
	43.5669306063196	43.1839109702714	40.1742127891824	44.9070250604284

DPEP2	48.8333989709933	70.0470864733496	192.632227878708	259.43283734195
	44.147557390293	78.1952428431942	80.6634117492762	96.5813769696577
	51.8083208406279	233.96534264787	74.9541456286637	177.535502927617
DPEP3	46.0920218698606	47.6914221838216	35.8265993915844	44.7980740332174
	49.8304479381623	53.7442594289333	47.2927436772465	48.1591264215184
	40.9901805728485	42.1622837416589	40.9157352260901	45.1735152121056
DPF1	51.1055541075029	46.1569135229922	45.4865173433646	43.6726153508978
	50.2163892855092	39.6251842352088	45.8980298854198	44.8997235283254
	45.4799270968969	42.785429206422	41.7272875295469	41.0657892043496
DPF2	206.514263103112	339.679549262298	250.65667565007	197.171449112363
	548.217757366495	311.810240385503	332.745139672471	202.529846569324
	318.609131605258	368.005081137665	388.336994961328	226.719775835218
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	35.5220586859301	45.4882438975269	44.8643898647322	42.7431359850339
	43.5669306063196	40.2112371512838	42.170702295259	46.8129509799753
DPH1	58.651329686676	67.6169355376864	61.841867306916	51.223859150798
	62.1836961153924	62.7515429046888	65.8986841086198	68.1311562787361
	67.0290776715331	55.4037482627222	61.940656536312	56.2804354745795
DPH2	128.281765653795	124.691222601355	85.417321091835	70.8088594316677
	194.189674572424	81.8426140611297	100.423344358771	117.723425661764
	115.087963545095	88.1199908664065	78.2839612497413	74.2473868510319
DPH3	104.17651993553	85.7208881534518	105.726287089142	165.496075703734
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	87.9297641099558	46.7168353198002	52.9405267581903	86.9924799927707
DPH5	144.266359480086	101.634888749356	148.42234459694	107.478392667404
	138.070735985503	212.032445918948	96.2959923858457	122.036614711384
	128.827672077002	157.7623351008	136.408012600787	203.092045210928
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DPM2	112.733531624555	88.3212200388592	74.9820339135242	83.764882413379
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	96.5851811404251	72.3822545261582	75.4466520363487	75.7464604972652
DPM3	550.642253702646	302.20349084931	302.978457293429	261.826480747537
	456.467726693355	455.774407260725	904.487756674518	300.703401968169
	400.327164003217	409.312313055794	351.439404852971	298.282957415786
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	41.1868052124344	40.040778349137	42.4493032770053	41.0844534776541
	39.4762546236449	45.0864985243943	41.9495387255163	37.9607839934735
DPP3	92.6545309624315	156.591349262922	153.544554979202	89.2503940049313
	155.252915611651	61.1630754250653	151.912182086236	137.785462971848
	109.889322825648	76.2533853403813	92.9453353261232	89.2385568686014
DPP4	52.9609836781499	47.2770121962655	56.3471340054074	45.4634652319753
	44.6834648302383	45.8325181856483	44.8643898647322	43.6434576713809
	47.27543600687	41.4397539024976	43.844855336215	47.0130468198828
DPP6	38.957687788868	39.9697332660833	38.2280071951674	39.4652349255591
	40.7273974755431	40.5940318808889	38.2933870238743	39.8965727231863
	39.8016018354453	37.5576991642607	40.1362682639916	38.8495095797881
DPP7	153.901083585889	260.426488908824	167.653939596625	212.92335057985
	192.763875975315	160.080366694799	139.758805241617	116.35075921851
	121.064136717339	138.362914843774	157.095926797414	156.864177272437
DPP8	70.5619719048506	74.7370458648253	61.4944752562671	66.7008819035152
	72.3388488936832	84.3040298294164	70.3935694362568	68.8698243753339
	84.7899210293383	83.0700092537618	87.5915970147626	82.7229468743536

DPP9	276.399037769005	202.957014793417	235.047133588022	276.029709051798
	251.105933757167	198.15553991394	295.014183084118	299.428590398636
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DPPA2	38.7537364570873	40.3384318592985	43.7630587657205	42.9358255168086
	49.0828761839116	36.4986986135769	40.9157352260901	39.853866204927
	40.137818555383	43.401782064778	39.6403089864678	40.8681871019812
DPPA3	39.8234920704779	39.8455060654531	38.4456289125816	44.6905691366696
	41.7426502114261	44.0399598874356	42.22763273471	44.6107027295193
	37.9273653326866	40.0557788909923	39.9070785037411	40.0557788909923
DPPA4	42.442231667357	40.8880530359822	41.0356368374708	42.6913548400127
	44.9936360641969	35.5158505219112	40.4359177791566	35.5798430594271
	39.1790517315259	36.2435874904689	41.7272875295469	44.1452943804044
DPPA5	37.6397652536077	41.2598458726002	45.3974838013476	42.1273928203021
	39.6535880152834	41.7627910693483	38.6243997507646	41.3506832276112
	50.401623258584	32.6203270051744	42.2618615571566	41.4508241771315
DPRX	40.7609952437622	40.3384318592985	41.437237454134	34.8137085420423
	41.6806984441849	39.4953494583071	38.5066108855005	43.4544762830742
	38.0213051227859	37.920964499903	40.9157352260901	36.2582325396375
DPRXP4	40.4639532172338	42.3550738181144	46.2625470410195	
	43.4812166409346	45.1137938810047	43.1826328292558	43.9450023643394
	42.9887069977696	39.1467972692656	45.6868589181768	45.7328341667151
	40.1235656101329			
DPT	205.627744150936	43.0227387991135	38.9790184198145	66.9218519793499
	39.7568367479301	1271.62760896761	40.2154497375715	41.5464765641928
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DPY19L1	245.060552951511	250.244199415895	373.626843592567	
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	40.4359177791566	42.4864576619427	65.813547096222	42.7431359850339
	42.6450179841129	46.9739160257217	46.5650556481721	44.1148826235374
	39.5418280570561			
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	46.1074305700679	38.7004513165111	42.0574848021044	41.0381860307445
	45.4882438975269	43.8482802038826	40.8970401536578	42.357910063876
	41.6031169661721			
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	46.0228732507872	42.7982502551634	37.2686490268265	43.8206425661746
	42.7431359850339	46.8873421271259	38.528621456378	41.5421429082231
	45.4799270968969			
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	39.066284740632	68.0414563597154	54.2503023961401	57.7805922926828
	54.5125550937898	57.1863195337055	41.7405682794166	41.1638563416981
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	75.9099205260748	152.608998839745	89.2185019250322	101.065203693106
	81.7765447802116	141.067111495922	122.576931376426	121.423421895502
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DPY30	424.709002690579	322.371597171026	390.834121304799	289.112248695929
	306.487935692954	312.795596385258	560.802447943839	616.912306849151
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DPYD	53.2046867327331	46.29198852834	48.3847843498476	109.726577835621
	43.844855336215	96.034706957068	46.7100796279384	44.6107027295193
	50.8485682149772	68.4137459386155	67.6271456814495	62.58750768974
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	36.7356360093603	38.6414316877471	42.9803717121865	37.5511560880902
	39.1790517315259	36.8059561571675	37.8372168909583	41.7575097298927
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	982.428740433235			
DPYSL3	1611.35913846618	201.180226922613	153.711194034581	
	640.944514118411	144.799432299339	3296.66056024983	186.620669365322
	440.728435508514	266.323732730581	2640.06306087033	1813.65521720537
	1595.69503047506			
DPYSL4	129.785929766258	159.393207489822	42.9104454767916	
	45.1944222548351	83.0497574039035	58.4435847520801	53.0277416531043
	49.6203214143464	41.5635499110307	45.0155543555707	45.5707650534259
	50.8442982601142			
DPYSL5	46.3390850717989	38.2263227947189	37.5597671487621	
	39.9697332660833	41.1868052124344	38.4330755397458	41.3594868055879
	47.8947595316832	45.8325181856483	48.8623729374733	40.1742127891824
	37.0953622406687			
DQX1	36.7356360093603	51.3800036046133	54.9071823326024	42.357910063876
	42.269054475455	47.9503724044453	37.7136011474903	41.9315419791594
	43.7630587657205	38.6454098044474	43.0971787292711	49.6629259325705
DR1	91.5417574979683	82.3344892042646	92.3034609409756	82.0292880742189
	101.867388894697	94.8884063433735	95.5117928427637	108.57858133896
	105.825228126465	78.0658258913875	93.2484615907966	108.479856042609
DRAM	251.803102904399	234.078434290473	188.513581321162	510.82619253142
	138.895316905243	213.140641182603	146.117756310709	148.403272698474
	164.642060754649	208.457587834567	214.873872837015	339.210875653066
DRAP1	566.318259999405	654.682263833024	790.786577596971	781.223434214089
	539.879151334921	795.381998233245	873.451893437179	757.257495810249
	781.223434214089	534.881442644054	606.123659335794	513.57613902662
DRD1	39.7576136507593	43.8495248991589	41.437237454134	35.3829784221072
	34.4570158133896	36.0306975524309	38.5066108855005	38.956280281655
	42.1594905198929	39.9948390976317	42.911855821602	39.0536056496869
DRD1IP	37.7384958256497	41.159706131351	37.3687900733549	
	41.1886975241176	40.5710637884029	41.0582900711341	37.830876898596
	54.6067620335514	37.2810767789306	38.4187686307607	37.7384958256497
	38.745552403895			
DRD2	37.6786104343959	40.0527893189096	37.9946685306274	40.8681871019812
	36.08956004634	40.3357777530419	41.0995198212729	35.1169296995348
	38.4344387289956	37.7668944701279	37.1617810121175	38.8146043755011
DRD3	41.9407041937973	41.8848959280916	38.5045333213784	38.4571887275378
	38.5115309709704	41.7627910693483	40.7910160811527	38.3684202018524
	39.8763736543526	45.642304356051	40.6783687486496	44.0977148249302
DRD4	135.00141569592	82.1344514651393	112.60230393988	68.6379135603075
	53.3086645804786	63.3612993417558	59.8273072817267	116.434267173815
	112.805898501551	72.1090339831747	96.0126406688619	66.295597720304
DRD5	39.266565827316	42.0709558258414	45.063792968927	42.2496337895968
	42.0709558258414	41.554942319225	46.8613212048981	40.831207953647
	41.4636047919453	43.6033221838149	41.4508241771315	43.6753843488695

DRG1	357.254500791202	302.50850157207	317.0659599072	276.029709051798
	314.281125546552	426.015657750123	431.727858902449	354.158105175308
	449.427251674566	288.237195966495	295.194516063502	347.145902252055
DRG2	99.7403508491191	173.977605406146	121.120217132666	112.957927208627
	148.544012961815	150.242221910229	151.266092912661	132.931052537195
	144.098339910117	179.064697219173	207.671418362257	124.628895737993
DRGX	39.7576136507593	38.3322849790657	42.7303139017786	41.5464765641928
	51.7983110178095	43.5752393599169	40.1235656101329	47.2009420656854
	44.1519466943185	44.2580151149956	39.2542963855807	40.4639532172338
DRP2	39.266565827316	34.2618170189676	38.2280071951674	32.554751989205
	35.0181575202066	34.0777108441756	36.08956004634	35.9023742468744
	38.3418933808844	34.064698871541	37.3687900733549	37.0953622406687
DSC1	41.8833988894167	42.7275315121163	40.1985790927248	39.5050383901884
	40.9950639693255	40.8091178323174	38.5066108855005	41.5464765641928
	40.8420925848403	41.2276963324981	40.4094901248527	37.6557714476853
DSC2	61.6966068000136	46.8954576545929	56.3471340054074	89.815123920749
	49.7526478730976	51.9421032049606	52.561573697155	54.720204938924
	60.2276476399612	45.3894119568143	46.29198852834	49.4786466722535
DSC3	42.466333667839	41.9894412416874	38.0958223740111	40.3691324547049
	44.7829632472754	48.260931742163	41.1886975241176	53.4109882045447
	36.5474283500601	49.8393069675192	54.3554233228353	56.1136936405786
DSCAM	48.0201377454632	46.1074305700679	41.4534762662066	45.4977402232805
	45.8749253192609	44.4367387274922	45.6042625176633	49.7748385529588
	46.8873421271259	46.6099721451275	48.783481283579	45.9132137835627
DSCAML1	41.3387790895716	39.8695929627783	41.6079958749402	
	36.3604951341921	38.5512429290626	38.1169703906207	39.2533668167483
	44.1311654985682	35.4332080966594	41.5435611403119	44.7926323492519
	38.9496515344837			
DSCC1	46.8954576545929	52.5380506348717	36.769073068743	36.5393857306744
	53.3086645804786	42.8598805316863	47.8947595316832	35.1738399826814
	36.2733735494625	38.1042454705119	43.0971787292711	38.3291713594599
DSCR10	43.0001432913058	40.8880530359822	46.7508829977587	
	43.9282059368202	45.1137938810047	43.1826328292558	45.223075311113
	46.0633179231318	49.3780606970538	41.0057887014368	50.4740079109854
	45.0985088502363			
DSCR1L1	37.8386378737561	38.4330755397458	43.1931731665131	
	40.646702696033	50.3713170502557	39.6251842352088	51.1541843174981
	37.5511560880902	44.4395580493118	39.5637454855233	47.7535797917441
	43.0930293831497			
DSCR3	142.309369995384	308.841311505431	242.503720442197	289.716911324484
	309.022069786139	206.559526386642	240.841214170409	120.552647575158
	171.191059267941	165.42634596698	136.482957391332	206.41879845205
DSCR4	40.0557788909923	38.1312950900467	38.2280071951674	41.1886975241176
	36.3390947880186	44.8872784170036	38.6243997507646	38.8495095797881
	38.9006788676407	45.5776159432079	43.844855336215	38.4330755397458
DSCR5	43.5710871617107	40.9731067463382	38.9790184198145	40.5484717678957
	36.6354013629791	46.8954576545929	49.1067959632109	34.1806289878747
	35.6139301508335	40.1179210534118	46.2560238004757	45.8546719310325
DSCR6	43.6706764143908	130.615540145155	54.6051538001037	36.0481934423077
	207.380865650247	61.4944752562671	412.421643885499	97.9497090233081
	265.176790020229	65.6721629145797	60.5608545741456	183.526640731647
DSCR8	44.6231541342	43.5599890586394	40.8860076320216	39.066284740632
	42.5435283762933	40.800866389165	42.3074504864935	42.6008809597607
	43.0496526069072	44.9603714724456	42.4956274276424	40.7063426028871



DSCR9	43.844855336215	44.8529259387308	36.8730514568925	41.6564075217517
	44.9936360641969	39.3841861812262	44.9863726205428	34.806104801006
	38.3418933808844	38.0078357808393	37.1059647239814	36.8690774823319
DSE	114.935101645207	62.8315857560764	63.8740412329753	418.693470287372
	68.8570376191283	138.23147386089	81.8868841896039	71.8613906497084
	56.970501040174	92.1725548553384	84.8084949516218	108.616118600231
DSEL	45.9090659324223	42.2577689927563	44.6032218589199	43.26160898693
	41.2740822675592	44.8872784170036	40.8600431177315	41.599960574499
	41.8994956106406	41.2665909203775	44.2925355984056	41.2870505273664
DSG1	36.8072833828297	35.4484652445078	39.3709357615493	42.2496337895968
	39.6535880152834	36.8059561571675	38.0598374201407	38.956280281655
	38.6322728994674	37.0320432433314	36.9060997041453	33.5578650644246
DSG2	72.4966502412724	121.542387231625	232.879882989322	38.0958223740111
	50.6470461863549	43.5752393599169	99.7529382840954	103.366147685418
	135.323750661937	58.115198353247	97.4829901136163	213.309547409053
DSG3	37.1485601150873	47.9665737016961	73.4122412764173	102.483081702338
	36.3390947880186	36.3845892764084	42.1607322031054	73.8374823243007
	91.5370872909881	52.2256177934134	40.4504608195666	47.6040671292013
DSG4	40.0557788909923	48.9899488302637	56.0477607422828	51.223859150798
	42.0709558258414	50.8533737532786	39.6535880152834	40.831207953647
	49.0986627051784	58.2818491355907	50.8826620053386	49.0655215909632
DSN1	86.2021418088902	77.8946473414547	79.1649337367773	85.5959901987745
	97.3188285021124	69.2685201884906	151.621572940457	118.736188485344
	97.9586375307737	57.6791750431251	65.9273663561152	64.650642183463
DSP	403.92758879201	106.521012342668	56.2937283136959	53.0284011078097
	48.9627346956003	48.7019915522206	78.4937314423253	79.2185250088688
	149.856848496725	74.4365426051588	72.842552380479	71.4197504261453
DSPP	40.4639532172338	40.2493681589104	40.4882741869718	37.651298468202
	44.0451487108213	42.8598805316863	39.4600924554505	35.3608605269276
	37.0126425326534	43.401782064778	41.2598458726002	39.7411455670172
DST	46.5728197403493	55.3864000014316	48.9775486706613	41.7243656302479
	46.8039881499971	46.554154914004	43.7617721656171	50.7855742231932
	50.280793313765	67.7831020218081	61.5144360539876	73.5950442915143
DSTN	448.383843915421	543.268021785502	576.367042159347	367.158502379417
	476.653723741096	2294.75523373329	596.384327208699	547.729200972776
	333.731080636948	1448.17151189672	1275.78715071615	1679.12630849964
DTD1	88.7928773498158	146.046179302584	160.605530211736	132.52749757795
	179.994715581707	138.12608134713	227.361044585582	138.170787392253
	138.50445813694	101.693848821246	130.775349446374	117.520762118299
DTL	56.0477607422828	54.6089451252049	59.4431489877328	45.1944222548351
	80.1294564809102	44.7804080899431	59.3549213146532	64.7318794662958
	65.7924490713262	40.8049408996274	38.4689132737495	39.3575468494941
DTNA	48.8333989709933	50.4487395010341	51.4704882732949	59.6804124924694
	45.9104478407175	230.486681581762	40.7340599105623	42.6450179841129
	50.628152951493	56.2508140932179	64.2690842803282	85.1718404558939
DTNB	118.762101740563	52.2501726671381	69.1938570643524	57.0629653735694
	56.6951078698291	51.0506441018166	121.737071786167	111.714563124738
	89.6736229308069	101.463033319045	95.4841914842335	73.9986015964321
DTNBP1	81.2850357499192	56.4978377936863	61.7572675712557	
	81.4621222177298	66.8129352840907	81.1761078123004	66.7826466218147
	79.2701322339022	67.9667104519753	71.1607965028029	66.7759319948677
	66.1334450017707			

DTWD1	73.6362523983338	67.8688083153991	53.0290605707162	72.8120269375546
	69.236458110243	113.6408244935	68.8005532048281	63.287067794195
	67.4775348162369	68.6095266659765	66.3481553496766	91.4786089554886
DTWD2	353.868749867979	191.141778714144	209.438270055157	342.643344197936
	162.424734330982	116.900364583878	256.302432791187	667.583623414832
	153.237127853072	450.515644056585	469.893430869091	357.574415292533
DTX1	47.8249696958403	43.3458769998118	40.301483914446	45.7397504535169
	40.6723334103791	43.4681646416585	38.2933870238743	46.8954576545929
	42.5406888281114	40.5090849993014	36.0481934423077	45.0035308952466
DTX2	216.744244428166	177.133999361532	175.550329937952	224.509915754308
	192.171116215791	113.839604953506	162.160380044249	186.325752658912
	310.821299796803	156.770274308736	205.24499293304	169.790843803064
DTX3	101.81885073944	53.2841144999258	72.6731815563159	53.593974682612
	80.7321212028516	92.6036872789676	78.4937314423253	116.852483297949
	77.5480089703916	99.6265783263109	123.368987753537	72.8306652548968
DTX3L	54.931538325692	52.8796369426118	49.9256753636167	53.9517841438975
	49.5666074434383	44.9896851005259	46.1634822993009	44.0390019242862
	55.6617952786921	41.2276963324981	40.9157352260901	42.357910063876
DTX4	36.6480005877129	42.5269793679335	37.4642807402741	51.3851157261451
	49.7235523248653	42.6575535390785	38.5066108855005	42.8482181313226
	45.8325181856483	40.4136535208406	40.2649309204478	39.3575468494941
DTYMK	39.0620487644635	37.5469247328848	40.8420925848403	38.8495095797881
	43.2484996523549	40.040778349137	38.7337086062875	41.6466169548846
	36.6312676076142	33.7883338848419	38.6662194645633	44.7401523707775
DUB3	43.4626049853157	42.3550738181144	42.7303139017786	41.6564075217517
	48.0234896130991	35.4142595025086	44.4639405506967	45.8669209716694
	38.9006788676407	40.1179210534118	38.5668610487033	41.0657892043496
DULLARD	108.400712514743	97.5849495690144	116.426770366736	
	122.702789229752	91.5258329186709	98.6108785181637	86.0796981361148
	79.9597944271831	89.5239792174887	105.598516887691	111.071209057746
	105.74849082793			
DUOX1	41.1914475733743	86.1924491308234	92.6036872789676	42.1607322031054
	59.4236178078244	45.0241191707651	67.8919712859031	53.6887223745125
	78.0133696753253	207.710354513208	120.618530729822	140.309952483162
DUOX2	37.7384958256497	47.765848710116	96.7948977485109	45.334106390212
	39.9697332660833	45.6129956328415	46.7100796279384	46.3685439301234
	47.0804681460898	46.8954576545929	41.9083581529276	67.4197263416701
DUOXA1	43.0930293831497	111.248876636045	165.029434090892	
	39.066284740632	54.0126916508417	39.3841861812262	144.863548409034
	81.4881766238989	89.5239792174887	410.058119360034	239.117228656704
	183.526640731647			
DUOXA2	47.3791873993182	51.9421032049606	235.195902632101	
	60.1837189855762	44.0451487108213	54.2503023961401	74.2690269784394
	54.6067620335514	64.0541263553251	48.4890615340603	37.9230440150891
	103.071727621257			
DUPD1	42.9104454767916	41.2598458726002	40.301483914446	42.9358255168086
	39.6535880152834	39.3841861812262	41.706879587091	41.8417024632349
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DUS1L	110.048921728774	145.694779669933	101.131391476546	66.9218519793499
	132.684895918889	71.3932787152381	149.551650453179	89.140025661759
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DUS2L	117.20232751191	154.067791946816	237.359267889848	117.228320608065
	180.100430567626	102.980622026276	310.900527198512	149.330073823683
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ECT2	181.738902391483	134.646159826262	86.500678864429	94.5501397951415
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EDEM1	85.6170780640867	136.140128421585	85.9692990407066	138.895316905243
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ETFA	493.322302312578	979.468753716758	586.026364123617	467.645011859047
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	1223.01485352248	246.568253751149	386.170232791927	721.266942608349
ETFB	166.129723762515	366.326747630465	512.691506909762	216.45007990575
	394.990145259101	309.593721653575	332.184073392054	270.303708972854
	491.100053064936	335.943994595615	370.917477324773	308.393270347486
ETFDH	89.9580440276828	151.601402122351	221.743315748689	120.436827608155
	120.309345127552	159.071016200059	117.439175394651	92.804679821289
	173.582309251499	113.546568515215	180.398903465014	216.45007990575
ETHE1	44.5282181324797	43.3458769998118	45.6989664108554	41.7614975630362
	58.037539503209	45.6129956328415	50.3519150282938	48.3590401011623
	51.7549258776884	43.6033221838149	47.9942520395434	50.4847465816184
ETNK1	51.3331184755498	59.1570467228834	61.0935621637178	83.5320423407318
	57.4709287098477	47.2927436772465	63.3924515518667	68.580705761277
	66.5141009463313	52.022479439889	51.0013344286851	55.117521379579
ETNK2	70.2541961995753	54.4793574349739	89.1115172961797	47.8164193292842
	50.5110359971301	47.0027453663546	54.9765783642973	67.0904616289706
	74.4958282816601	90.1696131791736	75.3075812535743	71.9369353731849
ETS1	376.931257615162	537.471287449696	506.585006700107	638.305455110267
	200.174103125152	199.181938253995	161.573327074375	337.51861578231
	208.804071011518	448.383843915421	564.19772079287	512.951288394692
ETS2	278.378459771943	1184.75786736273	1137.99307039386	1566.12726152736
	411.431488342465	959.549658414082	665.122091380755	596.384327208699
	1020.75813028358	403.796135347069	538.153124145211	792.022171185649
ETV1	37.8386378737561	31.3542159583213	36.3604951341921	39.9697332660833
	38.9496515344837	40.4359177791566	34.2773859804062	39.9576138799997
	40.3316153483289	39.8873706855774	36.3390947880186	36.6603338274678
ETV2	37.55264801907	41.6466169548846	36.9795961564828	34.5425384901279
	35.9058393060637	41.6590564937735	36.7356360093603	40.7311497914871
	43.2761454096265	33.5412189543102	38.8507804383261	39.4490233720848
ETV3	56.3471340054074	69.5544840164738	84.2385359528743	68.6379135603075
	73.4535007027931	51.6053353177789	71.193768715137	113.277043026153
	53.1249776278067	56.4553747079294	58.8961770381033	39.6352613956998
ETV3L	40.8681871019812	36.0366673493555	41.2365089689635	40.4359177791566
	37.4470183315826	40.8634043028528	38.6243997507646	40.7311497914871
	40.137818555383	40.2112371512838	37.3687900733549	39.3575468494941
ETV4	113.491158368594	76.375769561992	52.8041782638549	43.074472921841
	91.9685593100867	48.8744644207821	72.6959688212342	77.6174893940285
	173.391542207362	46.3810615657263	47.4630625313159	98.1220820761255
ETV5	158.532307373857	64.7650773032999	67.1729762600915	122.702789229752
	106.527144354592	107.682738819549	85.7299543466172	62.1934012861178
	129.909461876076	91.0346886951891	72.6450859740011	90.689813277023
ETV6	174.492066109537	148.879760620316	126.981964766008	207.087723777954
	140.598583034034	114.389392280707	286.291779906932	225.50098418159
	245.060552951511	208.67074469962	156.69976952483	248.691595276298



ETV7	46.6348258763289	58.5406981871153	62.0967404944031	48.856176220627
	69.0975200641705	40.9506062495231	57.51482768194	49.9332280449549
	69.1129431075514	61.4569050766419	54.4825201506931	56.9379721393904
EVC	78.7450149191851	43.5873188565519	50.8601672542371	42.7613994022988
	48.6707521528908	66.4399491500833	49.0497778708674	46.7980335276155
	40.9423087727566	64.428683021978	65.4589642146912	56.6146179789815
EVC2	46.263826584899	49.83247261979	48.4890615340603	51.7739270955254
	49.9493230064613	50.0748292497578	49.8281348927244	41.7419877611072
	51.6731332961917	57.2813205536176	54.6089451252049	49.8253396161069
EVI1	103.945335792682	1342.10592868516	1529.52516575545	174.860894067053
	692.630044242985	322.109212713082	768.354209323884	448.196293409768
	1236.32289322872	1501.67042548971	1817.14004766564	1307.19925493293
EVI2A	62.1448806673973	49.2443202281556	46.2028394323277	188.156490868789
	43.7517118200398	56.9621724830201	53.7423898357583	44.797320243931
	43.0342930070984	45.8424887733913	44.6734266378263	50.0571060701893
EVI2B	76.3933911546385	95.2292899846287	80.815808403022	496.791391622565
	60.2886873195135	92.7427427543974	91.5258329186709	52.8264142735929
	47.1744296124496	50.007830364606	50.5381435455868	56.6146179789815
EVI5	199.858233616116	121.432592327754	147.858425171297	203.979798245524
	110.869341159607	109.352296288717	147.321968565095	294.567137562864
	108.42710653018	214.03015073442	254.639522735592	187.462631817772
EVI5L	119.095094052197	92.1646038105091	234.778900405354	99.5958921252583
	212.353676518748	170.172720177618	73.8313212063649	101.681822254799
	165.311139930529	115.509409633975	126.375315221007	112.113501370522
EVL	744.762787024945	532.981045084589	861.427193617946	669.419736252343
	548.217757366495	688.168272082335	516.213108543512	608.005012673672
	522.49156295512	624.51670158046	714.075528895169	434.523449093691
EVPL	277.936167684143	720.552354470517	560.878675769733	51.223859150798
	516.848416430243	117.907440794926	410.058119360034	454.402224020514
	422.817392818858	510.675912282067	391.187784616808	287.184421338984
EVX1	36.6480005877129	31.0594903826598	36.1042012504758	36.7892997857376
	37.2567512265363	44.5544727111028	39.8695929627783	43.5544347011646
	36.6312676076142	36.5806287103157	35.6041926503637	40.0557788909923
EVX2	34.3473914754963	35.5012138354521	39.1480645318984	35.4355497822498
	38.4540849632254	38.2971553419489	38.7337086062875	38.9074189954657
	38.5252456306656	41.4397539024976	35.8150308232314	34.8510844670321
EWSR1	428.958127252533	603.224267841548	339.52415679299	355.568857981155
	416.717470974721	398.049525642349	615.442484911026	402.221227674218
	576.830397705584	429.725397949276	463.84209540456	369.451882513347
EXDL1	46.6348258763289	39.9697332660833	36.6522278218553	33.5578650644246
	42.269054475455	37.5887129572848	37.830876898596	36.5393857306744
	37.8319142847141	38.4187686307607	38.745552403895	42.0424641526302
EXDL2	193.981651711507	131.537639104397	175.271140689255	133.1387411908
	149.551650453179	179.285390561592	158.321459945365	114.959624673123
	186.042094228091	166.734730009916	162.352052340273	178.060342847557
EXO1	48.3556695727124	55.6972661824064	50.0445602878169	42.7613994022988
	74.3523005665671	42.6187506958386	72.8653205184014	66.8364940429355
	69.6511571901941	41.3735882187951	39.7342718293432	41.9721968713295
EXOC1	75.1328739717464	78.3488426553071	116.547937420457	84.5678487053881
	79.5175547131776	84.056083317311	65.1757400078647	69.2787430208317
	84.5678487053881	72.2443746456494	77.0395487594084	84.4349803529132
EXOC2	100.891869710611	96.1710806345503	99.8231023149756	96.5813769696577
	128.844013736935	99.6821042055758	69.8505620106065	68.0342444360948
	75.6614221167993	105.009081898873	96.8490167966217	102.971363152434

EXOC3 257.325282051981 197.232697438521 178.904972763325 236.242651711871  
 461.258911881166 335.655540947167 375.818861583151 228.026217504784  
 220.398778650109 292.800712773283 323.453481668415 167.639975497722  
 EXOC3L 50.0466349801009 45.0905928998779 53.5698357689852  
 50.5310598656998 44.0451487108213 43.6670755115848 39.8695929627783  
 40.831207953647 47.27543600687 47.1001757441025 48.5292718280498  
 43.0930293831497  
 EXOC3L2 43.1805016690297 46.6996902348633 50.9010149857308  
 42.6913548400127 40.2449343247539 38.4330755397458 38.8417151851134  
 44.0390019242862 40.2274522635576 43.844855336215 44.0409178714232  
 40.2669497398702  
 EXOC4 60.7595361363354 66.991625911443 72.3508448479791 64.6945454069792  
 65.6003544901554 58.2108487642117 66.6894494536346 65.7536901239228  
 77.6052681514721 72.5153335566211 79.7020636215451 74.2984889814139  
 EXOC5 55.3153799233744 60.6080172588224 44.8872784170036 57.0629653735694  
 50.2163892855092 56.6172748471831 44.0687697278114 49.6203214143464  
 61.3733228199803 65.2361525412756 55.6151308605445 52.3896785600751  
 EXOC6 51.1347974668251 60.7495043977707 51.1347974668251 66.4510869175159  
 54.1731035633439 52.902043370862 66.1940959364976 58.2043532960091  
 59.0850755856409 57.165971310746 59.897987870592 57.9941756686635  
 EXOC7 360.668308246913 303.139550962377 326.250872625748 163.126491735808  
 295.848968688724 253.980053738171 321.61848221455 274.259417498569  
 342.643344197936 329.978705095448 228.615793354146 234.727123301682  
 EXOC8 40.148780650831 46.3635803515159 44.6032218589199 42.0102671859606  
 42.7982502551634 42.5660695551615 39.1539892144371 40.3357777530419  
 42.0621425894624 41.2276963324981 42.2618615571566 33.6902293666089  
 EXOD1 43.5710871617107 44.8529259387308 59.4431489877328 46.1673159982664  
 43.5544347011646 45.2852528185486 46.4388841354122 54.0507720792049  
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 EXOSC1 158.590601962928 214.586915093492 285.689076149891  
 235.294634126766 253.207750345072 216.699423864285 239.96421556928  
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 256.165801611585 242.966185793816 177.55994726993 214.369365247268  
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 82.3254961129575  
 EXOSC3 206.571946834892 184.808179948172 92.2095095678497  
 148.333778341005 275.314994786888 161.948193932343 277.367257933324  
 117.547659489742 161.768763813052 116.891649452816 148.964204638494  
 186.372887375058  
 EXOSC4 207.943044411392 177.067668324062 123.908152883436  
 117.071280682786 301.728842562175 126.319731178054 155.239308003808  
 120.850874262069 195.968119243879 85.8795177524168 100.774098314706  
 79.7238173467616  
 EXOSC5 199.079207384598 198.652987129375 208.67074469962  
 140.662969373546 503.661461720233 166.734730009916 353.463970335835  
 268.936151471133 298.988745247509 173.5606219477 181.912232315225  
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EXOSC6	293.355303451014	531.69595054137	648.885062676884	
	217.575115287224	318.609131605258	279.841798764418	407.818713538416
	773.781266760336	399.21864362319	334.583159766096	316.917793468502
	306.174148874454			
EXOSC7	170.450752247109	260.581111456578	220.398778650109	
	181.983177572371	413.067407579649	209.467874193952	226.926786963011
	203.109765192983	328.295200683554	208.22938545273	257.506228440451
	295.194516063502			
EXOSC8	106.804269453898	119.088986733238	110.302475164041	
	105.934378627264	117.689172019617	134.375403847987	170.327588764719
	110.599131324937	182.643498505575	123.704998437432	126.920579478593
	139.472956453414			
EXOSC9	68.3234331335073	80.257554904218	68.6566757444066	
	86.7823828209946	81.1416376689959	84.2880616879945	95.6697427870979
	78.3542840447759	74.4623288220969	73.1407519625966	73.9126724639466
	81.7566533443175			
EXPH5	45.6517320730042	50.8812920005251	47.0940613507321	38.6414316877471
	45.8051846088552	40.5281496800812	56.6537562775715	51.1694248620208
	42.4540072551568	47.4767851750188	50.5188367542048	46.7182294568603
EXT1	222.426799131736	213.830284761604	270.156612086731	155.287591646469
	337.736535374405	159.747484721905	143.497887869284	156.719353642505
	326.250872625748	206.989423961124	197.720854621428	294.220232101389
EXT2	87.5759422500374	98.4930941487534	103.010279797396	86.5414905689606
	90.5860767851498	100.087328133967	73.3042538589134	98.5828998914961
	86.503774181307	98.2180003781859	93.4494731509092	103.010279797396
EXTL1	50.315768338317	41.2598458726002	43.3085358214154	54.8412943008635
	47.4548471240051	43.8582747295766	51.1541843174981	43.9366081640576
	45.0017158586743	55.9283039581662	47.0940613507321	39.8497227447888
EXTL2	129.525395445221	111.581224629293	122.052907748249	66.3188075271379
	101.2970835312	135.527591897994	84.4045322633219	76.5532859161089
	78.2393202422664	95.65872032796	103.14577985944	103.876328830067
EXTL3	160.566474370004	95.6662924228901	134.725028732282	127.986477405999
	108.063001800611	158.843766201769	92.6545309624315	86.2118355769367
	108.815245119101	176.506718222092	173.328468320432	136.355036262681
EYA1	40.7063426028871	39.4569929845912	38.9790184198145	39.4637566422506
	40.1207285185295	40.9506062495231	39.4600924554505	39.8812234363661
	38.7537364570873	42.785429206422	40.1422119692495	41.5916331278821
EYA2	57.0504111569238	57.6634521289201	115.761674855716	44.6286581923295
	43.0826863247766	45.017247592678	51.4349390827895	69.9984754033658
	155.287591646469	60.0856496605043	54.0669061445608	53.8803543493797
EYA3	45.9504618460054	43.0227387991135	52.8427643366617	54.9765783642973
	74.8893925448138	43.8582747295766	56.5914743235484	68.4261608261522
	53.5677764726461	42.0217776707284	47.396715991429	45.5435778478662
EYA4	39.266565827316	41.2176232897704	39.7683846616421	49.7350276169552
	42.2331334096358	57.5398008565764	39.2809305246091	42.8036731479932
	39.5377896745682	43.0919221375514	48.7049943037859	46.2072687763147
EZH1	49.7188990489616	43.1805016690297	49.4573631027613	59.0965219753805
	47.8075998240396	52.1024135605001	47.4439407315335	45.9604707098953
	48.0163377492228	52.8928296360463	49.7363778831003	46.7182294568603
EZH2	63.0266170942566	73.3395284923099	66.9239565096247	67.2714646016644
	83.0497574039035	45.1873487463472	99.1769280484821	56.032814067931
	115.414481087246	41.1222709786153	40.5750645132377	42.7303139017786

F10	39.8662795144616	40.6380495994768	40.8420925848403	44.0451487108213
	37.4470183315826	291.232601825013	40.6750540874299	39.853866204927
	34.3842972343227	131.380698046552	94.2275161759277	57.445796273665
F11	40.308802735799	42.2114134935898	45.3675390992851	43.367124590178
	43.7517118200398	40.5805725503899	44.2166118829877	39.3113207075992
	44.0256815382334	38.957687788868	43.2551508830106	44.0451487108213
F11R	68.8698243753339	88.2427413480277	85.3718124658316	73.5834042105313
	79.7238173467616	49.0497778708674	75.5830548489892	73.0855167819246
	199.404836798715	103.343354834837	85.2598847559951	102.49785018292
F12	58.3702889417801	73.845912534353	76.5699943825825	55.6481366056639
	218.958199087236	56.1671440556142	87.6018870099686	111.404796541459
	186.67069792963	56.5379973844443	60.6505672212119	90.9361642101537
F13A1	77.6056319020116	150.114520857436	179.040571908629	132.205423909251
	94.3450965454031	521.874349042344	76.7483302168542	75.3462586192013
	47.3791873993182	80.6634117492762	65.6010220593397	196.709620264975
F13B	37.6397652536077	41.8073910693411	38.0452862258803	38.9534635879195
	36.7356360093603	41.159706131351	41.1507980856436	40.931294690669
	34.0382693188794	35.8304004211528	38.1835938174625	38.3291713594599
F2R	11176.402230735	7681.71833395626	9060.10165509099	8259.38594893529
	6749.14636741447	5018.90384962952	9852.7965902602	10072.2414399735
	6873.84878164654	9488.06491634484	9060.10165509099	7627.46814033012
F2RL1	115.321592104747	134.099684731177	111.465167479654	85.1847490113446
	83.1225347811557	46.0905079010237	127.148417780972	124.94083215058
	209.178131628825	229.26498093497	214.127390534906	393.648308810931
F2RL2	39.1059888887285	41.8073910693411	38.5045333213784	41.7614975630362
	40.6308525754377	35.5523662009011	40.0603121770344	38.956280281655
	36.8127605061228	37.6637152940566	36.5359455830388	37.3600014814388
F2RL3	48.2549905619119	48.0296332183129	54.3554233228353	54.6089451252049
	50.2953638261991	43.1180113655693	47.2927436772465	50.8160430472218
	48.8067321016961	47.9707112435212	46.29198852834	45.3763275588341
F3	52.9849979441253	53.0383634135393	47.2505395290129	60.4007755900733
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FANK1	43.844855336215	41.554942319225	43.1931731665131	50.7046706880325
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FAP	587.385368995676	68.921126710047	65.2670315837785	355.568857981155
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FAR1	89.3989848564067	167.678403380953	207.342732103088	140.276520383146
	167.49597550111	165.220069268347	150.242221910229	88.0827215704624
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FARS2	330.168672676816	156.259762538052	169.99300253813	164.612971085488
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FASTKD1	65.0721641331632	64.643220133046	67.1299518044849	
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	62.9364422691302	92.4619796591359	63.1604223919703	98.1371527802953
	58.364744007152	90.1430468048409	50.9506778292488	52.6960621424156
	65.2125527940945			
FASTKD5	222.202580186782	215.08694410402	180.663636520073	
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FAT	346.438778257772	392.237227927376	460.994460486229	118.10944558223
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	472.752186426584	382.538365722661	354.015808474189	357.254500791202
FAT2	42.1537476443423	51.7495306734657	96.3741876853801	43.074472921841
	39.1650142708257	42.357910063876	46.5650556481721	42.357910063876
	140.961217055867	102.607924735378	73.9701365395921	86.2118355769367
FAT3	42.8036731479932	43.2649781354792	40.6737160001291	43.9282059368202
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FAT4	38.5332184743306	42.6939394537076	37.0642268327439	40.0322420615846
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FATE1	43.6706764143908	44.0409178714232	38.4043916290561	39.6292788039793
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FAU	3202.8848520816	3726.73487426505	3884.2191293028	3999.32180022337
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FBLIM1	52.8427643366617	57.2231446406982	57.1595768494068	
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	47.8931773060789			
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FBLN5	102.797268694325	67.9259304928255	51.5292723244077	78.2301707073642
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	47.5183209236505	280.680953068339	254.322611819303	216.654612568853
FBLN7	48.0201377454632	49.0697565324841	46.9040704638073	44.550322123994
	54.802736966312	42.157627240486	37.4772922422734	43.5544347011646
	39.2809305246091	45.6868589181768	60.4620008899889	55.4635297192076
FBN1	59.987045425047	46.9919960628953	37.8386378737561	57.6511495792664
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FBN3	44.436995101921	46.0713306971594	37.5597671487621	47.2009420656854
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FBP2	44.0328992213727	41.4508241771315	43.3085358214154	43.1847628331565
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FBXL10	198.432987946699	158.349509235411	119.051596183968	
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FBXL19 41.1523487516364 41.9894412416874 39.6451483836089  
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FBXW4	114.666088291556	199.604105066243	225.960701908311	106.8866235778
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	158.091115152384	305.684635013927	271.50380898418	238.246319539302
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FHL5	47.6397712007919	46.9919960628953	51.9885249508283	40.7481155008596
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FIBP	197.923403667051	199.208033538936	239.117228656704	208.023488988931
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FIG4	102.25509551881	179.09303345382	153.364107550338	152.545682001987
	80.7321212028516	136.250317107253	144.37233706688	471.734457300752
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	43.004943518025	62.3497263884167	38.2933870238743	37.2237132058632
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FIGLA	39.5676051939342	43.1805016690297	39.3709357615493	53.2046867327331
	39.3667161654772	39.2248354955045	42.7431359850339	38.079222289614
	43.1805016690297	36.1550293353654	36.6298807161755	34.1509644696334
FIGN	40.4639532172338	51.8610060995363	43.1931731665131	43.3078542962968
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FIGNL1	57.2960245538881	62.3524254253348	55.6865353018811	
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FLVCR1	95.3300728806601	67.8999127712557	79.6675791471526	
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FLYWCH1	50.7774722329703	48.6795178347248	52.9736397524094	
	42.2496337895968	46.4343327861696	54.7806868394478	39.0788811357542
	40.7799172560245	53.0034632721031	59.0216019867146	51.2318935933116
	56.4873776344986			
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FMN2	37.55264801907	38.4330755397458	38.6005272730664	36.7892997857376
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	41.9635525160083	39.6719190054379	48.042366934301	41.2437378488025
FMNL1	48.9906383294199	43.9421822132391	38.8775560911841	85.5959901987745
	41.3755760434934	41.3553369544097	54.6414321010929	45.3872406432794
	44.8997235283254	41.0057887014368	42.357910063876	39.7411455670172
FMNL2	58.2401724760744	50.0425298550559	46.614092935749	67.8233625051884
	46.7508829977587	56.7429967489965	52.9433495155796	61.3522631937571
	48.8067321016961	53.1309801459151	56.5402453093703	66.2305843819029
FMNL3	48.0201377454632	46.2625470410195	51.4308501933893	55.1531662914834
	43.8738578522009	45.4882438975269	44.5375569361112	42.0778399888414
	41.9635525160083	44.7672565800508	44.4408504417009	42.6758568421347
FMO1	148.758736522703	41.8848959280916	36.9795961564828	87.2643859655159
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FMO2	69.7442393277127	48.9899488302637	44.0451487108213	45.8844325913247
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FMO3	73.4611178120841	68.0556717366572	63.3544794716167	55.0604256312495
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FMO4	83.877343750194	61.6219790276408	50.1860191642359	74.8706881113318
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	57.1863195337055	79.0249585610565	76.2226219333049	59.2035499250243
FMO5	51.2851682978581	70.3629652777935	57.7415362494584	41.3027031037343
	45.6895223823001	49.9699131196797	44.7255207589606	61.5824518349507
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FMO6P	45.0985088502363	43.826317180678	41.2679739649179	50.3127977239083
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FMO9P	44.7915315085948	632.019639546131	96.6895594961001	42.8235313007746
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FNBP1	597.191426276771	389.131545459708	249.195312452368	716.434968700383
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FNDC4	73.6362523983338	46.3635803515159	50.9933795450314	53.8086134112366
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FNDC5	46.5549623118323	49.2050538150106	40.8420925848403	37.1894304543751
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FOLH1	51.2851682978581	49.1283590719461	47.646800205189	46.0228732507872
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FOLR1	57.9679239164609	41.9455842688118	43.8289240531545	41.2575219633134
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FOLR2	57.934905173625	66.5141009463313	76.1493261430901	95.5022104475922
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FOLR3	41.5421429082231	44.2105195734073	38.6005272730664	94.5501397951415
	47.2074332636566	44.6524308640784	78.8250642061439	43.4544762830742
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FOS	2354.00192115549	5156.59948231705	3618.78958408675	5218.25814076207
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	1425.37639004849	1405.20888023653	1981.03929621057	1055.00793806075
FOSB	824.946988188872	7785.77078492993	753.491584605447	2440.77408185413
	440.282299601096	3854.42494497831	1105.00321488322	9938.5091387622
	909.843512894628	326.902009704746	548.047774435177	156.433762355183
FOSL1	53.8856501960117	80.7198077526005	62.0008474085033	59.0965219753805
	74.5758811681995	67.8208976798364	83.0647477737971	117.612004923867
	109.594402843796	61.4569050766419	41.1638563416981	54.0374522273907
FOSL2	44.3355304829989	47.087835967892	48.0191002461099	63.9570596163747
	40.3452320167286	49.5424425850549	52.561573697155	75.7947206223934
	55.3122077514658	53.1993028936883	51.0492389286271	59.0894921452893
FOXA1	668.773022931608	2551.57660786358	1151.25293766167	65.524821699432
	1114.15989325456	169.18132209076	1077.94530110976	825.558929673308
	1813.65521720537	615.442484911026	651.621028098039	576.140066807763
FOXA2	39.5676051939342	37.2117500129028	64.6748464612845	39.1350512687938
	36.3838763632982	37.5887129572848	35.7772039808118	44.2159020605784
	38.8507804383261	34.9566647540594	40.5084378738092	37.4085590601111
FOXA3	44.436995101921	44.0409178714232	39.6451483836089	43.5627649099623
	72.2665537421443	53.8461734834857	46.3057385979341	45.8669209716694
	45.3756389170606	42.0621425894624	44.7926323492519	44.3521099857368

FOXB1 37.7726313569706 38.957687788868 40.5386195997545 45.0798408927912  
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FOXB2 40.4639532172338 42.6939394537076 30.8570661199184 39.7411455670172  
33.8558232866797 33.7818132446042 32.4466419672036 37.7612949798895  
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FOXC1 372.239177888445 558.855313555287 547.729200972776 361.091144969609  
542.467997217663 625.805967352327 647.868022835702 876.959744461441  
614.603743904512 546.548431253433 626.749986744506 565.411298018845  
FOXC2 52.502055890816 43.1805016690297 49.2041300973417 47.3574589211166  
46.9906120932727 54.1440452292081 46.7100796279384 59.6720198281342  
48.7358147030082 55.7930787690756 46.1673159982664 50.1579724208315  
FOXD1 84.6279355865799 43.683792219729 43.4709415392696 43.6726153508978  
39.1650142708257 42.6575535390785 45.8980298854198 45.4757965005055  
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FOXD2 84.1254258487497 56.6146179789815 82.4362183543935 43.4410741327254  
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FOXF1 68.8698243753339 64.5347406608537 49.5424425850549 57.2856683017619  
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FOXG1 31.8228237796461 43.0227387991135 40.5734458834617 36.0481934423077  
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FOXI1	40.2543341073001	40.148780650831	43.9450023643394	42.2496337895968
	43.2484996523549	38.1699123824764	39.6158343667921	42.9301944191913
	46.9062313932642	42.6366765186182	43.4709415392696	41.7575097298927
FOXI2	41.9407041937973	43.1805016690297	39.0775870687758	47.9915414951747
	35.9894133432376	43.2805590023412	45.4799270968969	39.1652965788406
	44.8997235283254	44.3648993568405	47.9942520395434	48.1627097465883
FOXJ1	36.9060997041453	67.6169355376864	34.4716904283753	39.5050383901884
	38.8456942580061	38.9378717994178	67.5206810636627	39.1652965788406
	55.2114969675545	42.785429206422	37.4642807402741	46.1592873342534
FOXJ2	408.353336724969	207.30460556799	301.728842562175	439.770250139925
	298.721050521396	447.448900931272	339.210875653066	310.255767356827
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FOXK1	121.8863522969	195.221917652149	110.431464700539	101.065203693106
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	45.3051051665498	46.1513019317765	47.4439407315335	40.2906799807722
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FOXL1	42.0532901689036	40.148780650831	41.6079958749402	46.7577982595088
	41.1868052124344	41.4508241771315	48.4859552186772	36.2539950294089
	36.197424053556	41.0057887014368	39.9899430628542	43.9541718254769
FOXL2	66.8188271427672	39.3565586789274	36.769073068743	39.2336402665402
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FOXM1	93.6717518147993	84.8084949516218	60.1444334141838	49.9672547361866
	112.159199477006	43.3785777889265	173.925818790068	113.917429432477
	169.367702213351	40.3458948319669	36.7892997857376	37.4554876386402
FOXN1	41.8409927585705	37.2810767789306	37.1643693306382	42.5664883002833
	40.0599807618105	34.6977013306396	38.6243997507646	44.7044140979108
	36.0741672064298	35.2880714952489	37.3687900733549	36.9976231206067
FOXN2	217.976796656266	147.017279035061	184.964039515715	503.793770799548
	117.260454792593	228.845881709556	137.081911344143	279.782392390288
	197.617554897454	211.625447303889	201.180226922613	159.506157112627
FOXN3	43.0462952354436	37.7384958256497	41.7419877611072	47.1332119496722
	41.467005949568	46.574682061365	40.5585676679482	42.0847226073592
	40.2739700860114	42.02667925031	40.2649309204478	43.0930293831497
FOXN4	42.3433931248155	44.6918600441328	37.6557714476853	38.745552403895
	38.9496515344837	37.9003288112261	38.6243997507646	39.0620487644635
	38.4344387289956	38.1042454705119	40.3452320167286	39.0536056496869
FOXO1	306.66244801017	222.368324930003	213.073369426342	383.642090672435
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FOXP1	39.9697332660833	46.6314009405034	43.401782064778	40.646702696033
	39.7568367479301	41.2098211956301	45.4040191352687	44.293922970134
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FOXP2	41.3785995857154	44.3529919625344	46.614092935749	43.074472921841
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FOXR2	38.304249186058	36.5219488315447	35.2101597814352	34.7266486944713
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	39.9697332660833	41.9918605927928	44.6032218589199	42.8036731479932
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FXYD4	44.0328992213727	52.9603588177082	38.8775560911841	37.8442841690502
	55.0031529299037	38.4330755397458	149.978825406418	253.462941029119
	71.6573554353691	38.528621456378	44.2142581488029	47.8931773060789
FXYD5	349.589955244523	199.858233616116	299.665413950641	639.778130093087
	167.626012561905	268.54298415337	539.471011648536	366.515210930763
	336.795797976236	350.917244438732	348.65230953701	378.12777235743
FXYD6	102.770627167954	53.3683962805281	51.8122261766744	119.591054636527
	47.6884372645373	769.685677484067	47.7390230243778	52.5098795466615
	40.4997186069494	293.410413883219	259.553931603133	172.39907939484
FXYD7	42.3433931248155	41.9894412416874	41.8751578329365	46.1673159982664
	46.0043807840705	39.7394181011603	51.4349390827895	39.2672712041774
	36.5393857306744	44.0409178714232	39.2542963855807	40.0557788909923
FYB	71.7624419474395	75.0873720488265	97.4515987591398	312.795596385258
	52.8843091010101	76.4439037944547	85.1227830573138	75.719886024949
	52.2216613535546	47.9707112435212	56.0794100106654	46.9867599298218
FYCO1	131.645714321903	189.80672643731	161.739131587013	115.299308625328
	173.925818790068	482.5816387921	105.549249728506	142.309369995384
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	52.6922486991742	207.833867050257	61.9504984796308	114.78317743597
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FYTTD1	64.4895418579465	70.5699797830702	71.6931243081178	
	75.3630857139861	81.3364476638024	104.704892803169	76.3583555666815

	91.2647023876304	75.3761360028971	91.036114822363	86.1779349281961
	89.9929484069346			
FZD1	81.8569832022381	85.5797236700758	51.1687217969783	54.4586176399381
	61.7566103867825	56.3293881184854	56.9320717885002	49.7309743973184
	66.7357366223349	57.6791750431251	54.3554233228353	54.1941919612524
FZD10	41.7397731376692	44.8529259387308	48.6037684272115	42.1273928203021
	39.1650142708257	42.750861693377	34.2773859804062	35.4526946152955
	53.6446045619513	37.3179578037963	41.5421429082231	46.6397391251762
FZD2	298.252355588344	67.1926218405833	54.0536858212253	162.151812425949
	280.075938355178	86.6910280940418	244.837105178705	162.181462827314
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	47.0954207417646	77.2834482217973	99.1769280484821	63.0748373122119
	113.655306804539	96.7422527189063	104.313754953569	108.299918384297
FZD4	127.232160404726	181.565843182713	340.491194032068	201.782740241526
	119.72858253254	289.909646207746	84.7782034884529	112.613079254002
	119.167027972122	146.311363191836	168.326515533208	113.130838519437
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	65.1757400078647	43.5752393599169	88.0664425843955	66.4207938873541
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	67.6011992144113	45.7300501624017	52.7002314230604	53.9465584609317
	94.8408264309872	73.7133884699889	78.806097512943	84.2728210732532
FZD7	119.277678423944	70.2553917409773	91.4581948567397	77.1614179978243
	77.7140342228764	134.489077146096	84.5678487053881	91.3607028449916
	81.6508259258669	153.019365845424	167.626012561905	102.971363152434
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	63.2753814090696	37.3179578037963	44.4688999098904	44.2527566343661
GAL3ST1	42.9104454767916	49.6841415268611	36.8730514568925	
	37.651298468202	42.3685136297603	42.6575535390785	39.5496902678788
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	39.7411455670172			
GAL3ST2	50.9381343674699	54.0461131287999	44.7829632472754	
	40.646702696033	44.3557408297309	53.6858208094027	47.2927436772465
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GAL3ST3	45.8108990837624	40.5400384479766	42.5890635915791	
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	39.4223544019653	43.0456011922275	42.5664883002833	42.3413611855132
	40.1235656101329			
GAL3ST4	43.1805016690297	46.0713306971594	37.2838080935695	
	43.3078542962968	33.0463640202858	44.4619248757502	37.7136011474903
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GALK1	506.173054520807	262.579533452771	377.626746989976	614.088027946471
	377.491895827114	339.418989022736	445.421601813221	499.744856832174
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GALK2	55.4366435285754	77.8039806950172	65.8986841086198	57.3837827230023
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GALNT6 49.6241203903354 45.3486182278177 56.7776874358774  
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GANAB	85.6964911093755	101.351907645804	119.545018066492	90.9106103192162
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	64.6835308827804	505.294880430281	55.6268253440479	49.6203214143464
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GAS2L1	56.3471340054074	49.0697565324841	50.4778868815688	
	47.0033848638449	54.5683518971261	47.0027453663546	47.3605100090439
	46.8954576545929	54.6235981131919	48.2596564318071	48.042366934301
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GAS2L2	39.3100256336821	35.2143190355414	41.1742244762318	
	38.5252456306656	39.7210115145672	39.266565827316	38.8775560911841
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GAS2L3	48.2910530887214	64.5347406608537	44.6032218589199	
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GAS5	36.5393857306744	37.8217989841918	39.3709357615493	43.8002456102021
	35.2163900400329	38.1169703906207	40.2154497375715	41.5464765641928
	38.7298222155532	38.3092241935352	47.3791873993182	40.0557788909923
GAS6	323.576613035353	225.35760689842	155.252915611651	347.247950836937
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GAS7	63.340012816413	43.1567024035183	41.785676764591	62.5106969730855
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	42.7522261624826	65.9574246586409	68.8362790228976	81.3082994649699
GAS8	118.358996104366	183.854020356927	189.164097331837	77.3864518736634
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GATA1	41.8409927585705	45.4143854024453	37.6557714476853	42.5664883002833
	41.3755760434934	42.6575535390785	38.941855825269	37.6557714476853
	40.9901805728485	43.2988017098387	36.131485826118	40.5703581862752
GATA2	77.7665223272661	435.632247999054	374.427492246826	59.6153684374766
	155.174579191838	86.915098846441	86.4114854104675	84.0899854321388
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	876.9597444461441	129.81569370219	1330.19215036764	361.57814355509
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GATA4	39.5676051939342	38.1312950900467	39.7411455670172	41.8778873678551
	41.467005949568	39.3841861812262	42.9803717121865	39.1652965788406
	45.5779686360641	42.2614524730856	37.2892641289258	40.1700117452801
GATA5	38.5007204246293	45.8669209716694	42.8270038153139	45.1944222548351
	45.1137938810047	120.618530729822	45.223075311113	61.5824518349507
	45.1899271235974	120.274848052394	97.4829901136163	77.6056319020116
GATA6	42.0532901689036	43.8495248991589	35.8265993915844	41.6564075217517
	40.2449343247539	44.5544727111028	36.8369172900902	40.5158867964016
	39.853866204927	40.8970401536578	43.4709415392696	41.5536168238478
GATAD1	81.537796828766	61.6219790276408	73.1262465119304	
	59.8102324370568	60.5290966885203	68.6424653037264	62.3556396662215
	78.9361044544626	81.6508259258669	91.2016867646161	83.1184264089873
	96.3918711895208			
GATAD2A	455.223217772744	575.268446033282	536.73426937255	
	513.733739926914	1243.32650314893	444.618035487523	563.927521628693
	490.876152145712	466.454993547103	394.437597863822	495.26603220907
	382.872356030213			
GATAD2B	75.3761360028971	94.9831937714438	111.357508398822	
	93.7782490229256	89.0203733091224	81.3978207813439	91.5258329186709
	107.682738819549	85.9087280306456	88.9738853594498	110.214922820817
	89.8035133597498			
GATC	78.5216977073842	62.3983214098965	71.0340758556049	50.0526763693329
	75.7464604972652	58.5530199658661	92.4534854832186	53.2046867327331
	77.1317865202676	46.2286164776607	53.9517841438975	70.6903168772326
GATM	63.6767189846426	75.7257660897685	126.578693258328	49.5424425850549
	319.596352961751	200.986069552443	68.673864919178	60.5571721986885
	204.009492151839	108.63277045284	137.484063876244	153.569831699238

GATS	149.933827818309	81.7367617812869	97.3066473777771	68.8167148906225
	99.1438953564062	167.410607476565	92.3034609409756	106.871269007146
	100.476750028832	218.727705098677	172.83517237888	109.832638804839
GBA	321.949943388959	237.161912299581	477.924466983414	589.685739519627
	229.992809034971	225.056827821165	249.37112382902	324.320137371059
	202.360546931172	199.208033538936	196.389446842567	156.02592319461
GBA2	62.5528124447176	69.3106426188075	56.7272804480684	78.7450149191851
	65.8319449883221	63.3612993417558	71.7546556028831	68.7227011958449
	55.6617952786921	75.4836539148799	70.4204944097269	76.4889974392545
GBA3	39.7320564340365	38.4330755397458	38.8417151851134	45.8844325913247
	39.1087466732192	45.7300501624017	41.0381860307445	39.5954353681031
	149.620814280822	38.3501188844251	43.9802831041664	42.5365257225985
GBAP	45.2875173643252	42.0709558258414	42.0621425894624	46.614092935749
	46.1804647841331	55.1037284831588	56.2181240696479	43.1567024035183
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GBP4	197.868575583033	288.023490151593	223.801865347687	292.389429869034
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GBP7	35.1307934330047	41.2598458726002	41.9666541498638	36.6501141438378
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	42.4688861147508	39.3016855924751	39.2542963855807	50.3118072462443
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GDA	42.442231667357	46.5650556481721	45.4634652319753	42.1622837416589
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GDF11	33.7777950030073	31.6295801599123	31.3901365951213	36.4564050256915
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GDF15	684.865133028228	3838.19449971537	175.056828374791	157.518879763075
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GDF2	41.3387790895716	39.1982470626863	43.5710871617107	43.074472921841
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GDF3	41.1523487516364	45.3486182278177	41.9666541498638	40.8681871019812
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	44.4395580493118	41.8613406887824	39.9899430628542	40.2669497398702
GDF5	42.7150227340364	39.7835513496873	39.7411455670172	41.0726336841311
	41.8806343997257	39.8455060654531	38.941855825269	37.6557714476853
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GDF6	43.2135791259317	41.0678614026819	42.108130037421	46.8954576545929
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GDF9	44.0328992213727	40.148780650831	41.437237454134	45.0798408927912
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GDI2	735.460645553438	522.49156295512	382.940842652744	590.709061039001
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GDPD3	65.7259084183743	103.289476128549	63.2936377704897	44.4954892619459
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GDPD4	40.7609952437622	42.5269793679335	36.9795961564828	39.1706564265495
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GDPD5	117.612004923867	51.7495306734657	65.9476039189301	89.1290937615998
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GJC2	70.8288090024328	61.9459245072385	165.992057520727	91.0346886951891
	54.4586176399381	229.745018977185	43.4544762830742	64.4156641487994
	44.0519245668737	97.2865629929716	126.375315221007	103.233768723364
GJC3	37.6397652536077	38.6414316877471	37.8386378737561	38.5252456306656
	34.9062568194127	45.0882356578404	35.8227939208521	41.3506832276112
	46.3203995372658	35.8304004211528	34.174642681781	40.2669497398702
GJD2	35.2267149016596	35.3307157989724	37.2838080935695	28.6786952763294
	36.9702228618069	38.3418933808844	37.3799542961839	40.4359177791566
	34.9428206949566	34.1648535095605	35.046946054314	31.1733235029813
GJD3	75.2475238554276	381.6928205836	98.8595497262968	72.89602312859
	67.0163226819964	59.3618843678775	89.9284109077375	62.4219686957673
	82.0081006332668	64.7269156363245	83.7392835102145	52.5752569429057
GJD4	39.7576136507593	35.6434124419782	34.8956628705329	37.7469621225553
	39.0564222526273	40.1428591998404	34.5633623842083	42.9301944191913
	39.6609238036815	38.0078357808393	40.9157352260901	36.2582325396375
GK	96.2248868829355	118.923419920947	119.979854891563	1366.59129560817
	104.754762973117	84.1922656126304	209.658186168638	192.356440003154
	129.754481922118	49.5635427311883	50.133362781069	53.840976437122
GK2	102.513192587614	87.0685571351947	93.4180535865914	108.025082988807
	81.7765447802116	89.680151549258	94.3537052300317	103.366147685418
	96.2385885003071	72.834275688835	87.7844808613265	73.9192243586276
GK5	54.931538325692	67.8208976798364	71.0340758556049	64.898351831341
	88.6368226476614	66.295597720304	59.5205055437765	67.8061298261394
	59.3580517977711	71.5032996449402	70.3381994440425	78.8968326770219
GKAP1	37.3463875295726	46.0023068797812	42.2577689927563	39.6292788039793
	45.8051846088552	45.8325181856483	50.3519150282938	40.6171774724171
	39.5806465938526	45.7911932481722	43.0016969050339	44.7401523707775
GKN1	42.1537476443423	62.6236991757723	39.0775870687758	34.9221408381038
	46.7508829977587	41.8613406887824	37.6036146841933	40.2382908228517
	41.074824727477	139.414044294473	47.4630625313159	224.450710664296
GKN2	36.8072833828297	43.4396866157171	37.1643693306382	42.5664883002833
	44.5668141895992	40.7616966228404	37.830876898596	42.9301944191913
	41.4636047919453	35.6208308220005	45.8180710486329	44.1452943804044
GLA	274.134201700259	734.705859548078	139.08163074096	1294.42501356365
	415.251775687794	208.7739716139	270.89711217076	540.721068846198
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GLB1	229.379918828848	434.223722811041	388.132295362791	478.110586929303
	588.064524478384	258.120500906788	352.917938567734	301.941928552396
	516.349618186681	233.72882333861	178.249889756228	262.534449975056
GLB1L	64.0759817636265	46.5650556481721	46.4569566520107	77.3864518736634
	44.147557390293	57.2767879969284	52.7002314230604	49.5185112777773
	47.27543600687	59.1496467460507	54.0374522273907	58.2879293130296
GLB1L2	161.573327074375	66.7256057011273	86.6186787663248	
	46.614092935749	135.737771384104	71.9329028989527	63.5738862549306
	174.416924448198	72.6675345946258	83.6524523974491	61.3529667465225
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GLCCII1	62.4317959077388	71.5249259772583	63.5107036952143	
	121.204795052893	77.3931945683613	53.2046867327331	52.0942589368478
	56.6910078150745	70.2541961995753	62.1035858593388	56.3106156221316
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GLCE	106.878946016737	71.6537776654915	63.3544794716167	103.139459009593
	124.903031106573	107.148000219752	85.5027511448958	115.577618925646
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GLDC	44.6231541342	49.4982025424177	39.3709357615493	50.8567345921473
	50.2163892855092	36.3845892764084	87.0685571351947	63.3768687067745
	47.3791873993182	190.375732394043	197.040881690021	137.239944506217
GLDN	50.379587451669	54.9392038576957	54.3554233228353	82.2766822827861
	43.1252272136667	50.0748292497578	55.4004611309636	56.5914743235484
	42.5406888281114	218.056839407813	119.070289990926	114.488672372067
GLE1	134.62138052303	151.740176274202	90.6516730646251	111.186223357396
	96.5615807039306	111.404796541459	142.172292334093	105.822362552251
	106.907589984092	119.015431849218	132.679840262941	117.934830767297
GLG1	1115.27580736237	631.632335640448	999.496354673223	797.019657306322
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GLI1	61.356483470053	54.2445399731644	66.0411740221276	50.5310598656998
	72.5027069303875	55.9351706773613	78.1623301184313	54.0507720792049
	60.5608545741456	69.1623287497421	65.088713927995	57.0524725494273
GLI2	45.9090659324223	43.4396866157171	39.3709357615493	40.1804147506786
	37.6527901109005	52.7156971154405	38.7337086062875	44.2159020605784
	42.2577689927563	47.611018474151	44.553780984244	39.1553169409075
GLI3	64.7766649630041	48.4980626712175	70.2577825186943	55.0604256312495
	44.9936360641969	74.0995052892511	39.1539892144371	51.6660481331154
	71.1894129030602	80.191847692094	87.3342335690393	66.295597720304
GLI4	52.7570461169969	79.5838979704243	101.131391476546	47.481302504066
	92.6736029146947	62.4450952595811	56.4809146784765	59.9968592852122
	97.5394336319916	81.1925839235551	77.2834482217973	65.2125527940945
GLIPR1	92.3659612653822	68.7826057564876	60.5678281953819	
	337.441212908704	94.6432868887401	130.02102880365	57.6643188499117
	74.8893925448138	51.9545473262296	57.5713378330876	57.0154839296649
	72.0334593545916			
GLIPR1L1	43.3638918705225	46.4385386401326	46.9040704638073	
	40.646702696033	41.2740822675592	43.1826328292558	39.6535880152834
	46.2779564481158	42.4540072551568	45.5776159432079	44.8872784170036
	45.0985088502363			
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	47.0874209746031	35.9894133432376	38.9378717994178	40.4359177791566
	39.7509165247419	40.4997186069494	45.2556760873335	40.1742127891824
	43.6753843488695			
GLIPR2	574.14982128922	222.01145815859	235.047133588022	
	1645.71527614542	169.693594531146	1050.05355467301	369.451882513347
	415.477167615547	115.954295099681	790.786577596971	610.502562878788
	474.379113836506			
GLIS1	40.4639532172338	42.9358255168086	36.6522278218553	40.1804147506786
	39.3667161654772	42.357910063876	41.3594868055879	42.2577689927563
	42.9020321355927	41.1222709786153	40.547835538778	40.8681871019812
GLIS2	38.0089018744739	41.9894412416874	38.1421709520616	39.7411455670172
	44.2607789091176	30.8824580894159	42.4939802311136	45.3872406432794
	40.8970401536578	44.6918600441328	35.046946054314	41.1554481567603
GLIS3	52.6554629843702	38.4866431306822	43.8249538325648	51.1470623296569
	45.6895223823001	45.1873487463472	57.0178321687063	64.1675023456571
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GLMN	97.5464355320239	80.0502531022254	74.8071157013401	61.5515639412892
	92.6036872789676	77.2048580540589	93.9472621843566	113.528908699366
	78.3082773071531	88.7461361855771	77.8669914727921	78.4641751788842

GLO1	1031.94541988402	1164.71243740122	809.577874019028	575.057786209737
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	1050.05355467301	527.97309138633	600.34379987143	1051.58050264114
GL0D4	252.870708814507	269.963186760811	237.754990288051	203.152852313746
	209.281870980564	237.632703283663	301.941928552396	233.07404514708
	230.73977644867	284.868613843826	266.439343650315	276.267583952979
GL0D5	38.7537364570873	37.10170285405	40.301483914446	35.6928955245309
	37.2567512265363	38.4330755397458	43.1931731665131	31.5766875248365
	35.0305278582179	40.1179210534118	45.310660704531	40.6614700944853
GLP1R	39.8662795144616	44.5152708955623	46.9040704638073	43.6726153508978
	44.8897737954573	37.4782441311626	41.4742337714895	47.6952179922944
	42.0621425894624	51.2318935933116	41.8168470823451	42.57175366709
GLP2R	39.9697332660833	40.9731067463382	39.9101908547397	39.1706564265495
	43.7517118200398	56.9320717885002	40.3302268293707	36.2539950294089
	43.6670755115848	42.6793753550854	37.9230440150891	39.3575468494941
GLRA1	36.9060997041453	47.765848710116	38.7745734037492	45.1944222548351
	41.2740822675592	38.1169703906207	41.1507980856436	39.2672712041774
	44.4395580493118	43.7303813515864	45.2265319826548	42.0424641526302
GLRA2	37.3463875295726	42.0709558258414	36.9795961564828	43.3078542962968
	38.9496515344837	38.4330755397458	38.941855825269	39.3709357615493
	39.7537274655115	36.6893251782922	36.2435874904689	42.7782216342806
GLRA3	41.678190413467	38.7344853699576	41.4613628725541	39.6833800000587
	40.7779767565889	41.2098211956301	36.5729485312886	38.079222289614
	40.5912213523345	43.9450023643394	43.0971787292711	39.4830039788612
GLRB	63.7818442618767	47.5647821785529	38.9790184198145	45.0798408927912
	45.3675390992851	46.574682061365	78.6402083787251	45.0972184964705
	62.7205631511304	49.8393069675192	51.0492389286271	53.0446815750355
GLRX	96.2248868829355	78.1623301184313	153.940127525369	407.063375756017
	62.6860949544223	141.043326064913	67.6767845246581	114.342447939197
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GLRX2	58.8987159047296	63.1394716239975	76.2193772627406	69.9101676350298
	72.983338488605	64.4156641487994	77.1521355570024	53.838484549134
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GLRX5	1440.41726370246	767.489657259345	827.365231733511	573.394745674984
	1416.47763911039	1204.34388579291	1027.59400018637	1372.51401036753
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GLS	143.084029849218	93.6717518147993	112.159199477006	146.573018487871
	63.686652234709	100.650129064849	60.7992483126292	77.0262811825953
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GLS2	44.1737502492846	48.6447083765118	45.4634652319753	40.7481155008596
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GLT1D1	38.304249186058	41.8848959280916	37.1643693306382	
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	42.4864576619427	45.9266745571724	44.3440839686558	43.1567024035183
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GLYCAM1	40.9558083259517	36.7976562409506	39.7411455670172	
	47.4320009861631	40.188873541274	43.4215162178364	43.3744503319109
	42.1887890806988	42.8036731479932	42.6211340086915	42.6913548400127
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GLYCTK	58.5759178381027	68.8195659637992	75.651446553407	
	72.4834467838798	101.738441694376	52.7156971154405	87.7107079534841
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gm127	38.957687788868	45.8669209716694	38.5045333213784	40.1804147506786
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GM2A	167.848222139162	77.8946473414547	166.33117014492	247.843927763772
	65.0605897122361	102.711934290382	55.9276266345493	135.997802304719
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GMCL1	71.6849360818041	106.809028844031	96.9569547595983	83.3905516293346
	96.9476136220382	73.4122412764173	92.0658899997157	86.7710020879725
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GMCL1L	39.9697332660833	38.5252456306656	36.9795961564828	
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	42.157627240486	41.863927676552	32.2133093774284	36.6298807161755
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GMDS	519.563402444472	583.053232396803	368.246708866999	295.014183084118
	1134.52018899688	287.981727851442	533.820505121067	341.97050042695
	355.00914527669	372.473625569296	383.966991071954	368.525388695227
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	91.8935361535002	79.1257499539205	107.015362116555	93.1067450332473
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GMEB2	203.759116151774	170.128899555014	146.42128243217	124.611407530723
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GML	34.2180669723984	34.9262464079777	37.2838080935695	43.1847628331565
	41.7929491793697	36.6996187567892	40.4359177791566	36.8400213077707
	39.4762546236449	37.3179578037963	39.6403089864678	43.5738557773903
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	136.429803886927	61.2387559102636	654.682263833024	210.768576894328
	142.492693744683	113.759627906335	86.582851157193	132.985150338484

GMPPA	284.942182200489	163.946447772618	211.468527316402	270.487135967976
	205.806939441015	164.62751527755	176.43047680293	224.373975368936
	180.994353525666	161.948193932343	157.927114480316	132.985150338484
GMPPB	67.8335962843732	105.446338599737	77.8490019489375	108.138395958121
	76.0532592222027	72.5956443098684	140.465247047676	76.1769573071745
	63.340012816413	58.3813211109331	71.1894129030602	75.1953706943085
GMPR	41.6354649482853	37.8217989841918	48.9944486068347	49.1786207920603
	68.5888253504788	53.565717255469	54.4934782594218	52.1788489555942
	61.8445915808329	53.9412154719864	49.2206713037152	56.1136936405786
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GNA14	76.2368668439875	57.4538469832241	51.5292723244077	48.665578118898
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GNA15	305.735573572576	663.372296297652	654.682263833024	1048.98028527123
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GNG13	40.8681871019812	39.7835513496873	42.8270038153139	44.6905691366696
	38.9496515344837	40.8634043028528	58.2315917325629	39.2672712041774
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GNG2	52.9240098541574	53.7332797903102	51.9214790114499	83.877343750194
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GNG3	36.3649677956953	43.7644428186265	38.5045333213784	35.6928955245309
	38.745552403895	40.6507422261428	36.08956004634	38.3684202018524
	40.2274522635576	40.2112371512838	40.3452320167286	34.3409660445447
GNG4	88.9589979655541	42.1607322031054	36.3604951341921	40.3180310664156
	45.2556760873335	44.9896851005259	56.0515443021293	40.931294690669
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GNG5	223.826005691932	222.617854741466	224.976641879383	225.589127792587
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GNG7	43.844855336215	56.463481075522	48.8941062980393	66.224559122062
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GNG8	41.5421429082231	44.0409178714232	45.8844325913247	41.8778873678551
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GNL1	216.866451320811	158.01463829244	224.827414462257	188.099292617901
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GNL2	659.666977039793	483.20917825594	395.875593488613	440.282299601096
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H2AFX	77.6056319020116	106.595042669127	60.5678281953819	43.6726153508978
	117.893268074013	53.565717255469	116.555666104916	87.8724689898823
	112.488156568824	42.8936990772838	53.6334631215581	60.3816817102326
H2AFY	752.837247653926	650.328627263899	615.442484911026	970.379875059112
	655.389317052689	439.376432049616	821.922096305069	864.302844775203
	1041.84536202049	461.607803139448	492.902027204364	746.847753035399
H2AFY2	688.168272082335	1152.55315876935	887.118866402149	
	269.745248423773	895.735191953679	409.978564041362	1228.1735887278
	872.305108096296	3190.0108307463	654.682263833024	731.071171171638
	574.467486140819			
H2AFZ	1291.71781703042	2243.24648907474	1698.18614771363	1351.49940447914
	1796.47241860175	1693.5377672895	3253.86278287661	1598.78859278229
	2934.35616793443	790.094848284547	841.850722284484	1769.18069954113
H2BFM	39.5676051939342	43.3458769998118	40.4070046183108	59.8102324370568
	41.1868052124344	38.1169703906207	50.5252048155459	41.5464765641928
	40.4220196471124	46.7646877499666	41.8168470823451	48.7814131120945
H2BFWT	47.5647821785529	39.2907645923217	34.1806289878747	
	43.6726153508978	41.5668884168669	42.357910063876	51.4349390827895

	39.2672712041774	46.6944238390932	35.93950183586	38.3684202018524
	40.9683275553869			
H2BFXP	41.5421429082231	42.9358255168086	40.4882741869718	
	42.2496337895968	36.4434672195785	41.6590564937735	35.4623691645629
	42.2577689927563	40.4997186069494	38.6454098044474	37.1059647239814
	37.3600014814388			
H3F3A	4820.70258471362	7022.41612496714	7785.77078492993	8050.256095383
	4665.45637589484	3681.41904661708	8441.71894028273	6819.74871209328
	5733.54417656207	2844.5506310828	3361.67247904403	3707.73750609316
H3F3B	316.185342210304	434.841521967958	332.230531176052	444.937258895152
	125.221639689345	528.242677613584	394.00931573564	344.314901683001
	412.694325761831	645.702744916884	518.936896882424	451.603052501528
H6PD	56.0836516733215	51.1541843174981	45.6989664108554	52.2089306840125
	46.3150221024046	48.5136862664526	42.0605906240248	54.2301964914419
	46.2718838939055	43.2438688757519	50.2750065554387	54.1941919612524
HAAO	44.8914371498528	40.2493681589104	47.2962360458401	50.7046706880325
	40.4639532172338	52.6226745117396	44.7255207589606	43.1567024035183
	43.2761454096265	46.325232414659	54.113533179847	45.3763275588341
HABP2	40.3478825593224	46.29198852834	37.3687900733549	39.3750969348308
	45.2556760873335	37.0180934800573	36.634024014558	35.3608605269276
	39.3750969348308	42.2614524730856	40.8225507267584	39.0536056496869
HABP4	73.9578111605052	58.2571968311834	58.4137028673494	79.1998092110487
	65.6556779936059	161.38599012777	70.0196904419961	83.5767232665142
	59.1223319112238	108.976748006885	119.157952832454	117.626009607247
HACE1	44.7915315085948	35.3307157989724	38.6727842796202	44.265834798964
	44.3557408297309	46.7800033479223	54.1707158323527	42.2577689927563
	42.6366765186182	39.4710743516517	44.7114813656401	44.1452943804044
HACL1	154.730266766226	231.733564500645	200.615897175992	205.605413799808
	369.877521477669	183.584085676174	350.365107642944	291.867370164212
	238.819980744789	203.759116151774	144.427680369554	170.184914156265
HADH	260.766438659762	687.862452802453	458.230500859847	144.116701129933
	354.015808474189	452.351360652434	994.404707955031	495.453743436613
	1111.89793143647	636.367246129079	648.380417557148	883.06773454117
HADH2	112.644426507762	113.929486370331	119.979854891563	131.57403028894
	141.410183156424	128.923092916744	175.632783805966	146.892027926888
	192.536546957155	97.2865629929716	97.9497090233081	101.017461500409
HADHA	158.429106463866	125.290426098227	122.258194040815	165.958820888591
	203.417430809331	204.251854342995	202.325629133577	382.872356030213
	183.820203505757	251.803102904399	209.178131628825	224.030034866938
HADHB	175.876518898179	158.806855832703	213.232693288132	150.941470539313
	139.620154641549	178.44531401852	195.512986297442	313.921236120658
	203.109765192983	144.063191647372	164.642060754649	240.975885654236
HAGH	217.189489936251	218.531478946522	234.308728996238	201.616017553422
	187.836567614419	251.299662213686	219.838542502016	129.394893423994
	197.13726107504	205.830801439839	199.480636964499	268.072653271299
HAGHL	52.1589578279164	51.4931742685391	51.9214790114499	53.593974682612
	95.7263252232278	44.9896851005259	43.8973899364093	47.945438269111
	51.7356912981073	45.087888302889	48.7720246202612	43.2776458914333
HAL	42.0532901689036	43.683792219729	42.8723769353017	56.7106584977089
	44.7210190486327	47.0027453663546	45.6706505553383	40.188873541274
	43.8482802038826	43.5652644712197	41.134180463103	40.5703581862752
HAMP	56.121460370892	43.7644428186265	81.6486527718661	361.57814355509
	41.467005949568	39.4953494583071	58.3675164086197	57.9713749600418
	44.7058233759912	40.1179210534118	40.3452320167286	39.7411455670172

HAND1	49.3463416794995	35.6434124419782	39.2707964550441	38.0958223740111
	37.6527901109005	489.983164420779	45.1017494688414	41.9315419791594
	87.7337304906377	161.910748720932	195.221917652149	179.994715581707
HAND2	44.380620848621	42.5660695551615	43.3465699185405	41.7144525110048
	44.7210190486327	73.8651427228332	42.5660695551615	40.7799172560245
	44.2607789091176	56.6086202928268	53.6895401581575	60.0517078759277
HAO1	44.380620848621	43.3972849968032	33.8029161403492	42.1622837416589
	39.3667161654772	39.6251842352088	38.7337086062875	37.0390589468421
	43.3744503319109	36.6893251782922	39.8184668132023	45.0985088502363
HAO2	40.7022020432945	37.3634897565502	43.4544762830742	37.7146582037126
	38.7864161493321	41.0012755104374	40.7910160811527	37.4484310268909
	35.668043946649	42.5193208629123	39.2542963855807	41.6550823405646
HAP1	37.8891397738265	44.2105195734073	39.3344387353654	40.3180310664156
	45.5311794320092	43.9421822132391	54.4934782594218	40.4359177791566
	45.0755084221375	42.6793753550854	39.6719190054379	42.1537476443423
HAPLN1	53.593974682612	45.7317208802318	163.476051754305	
	38.5252456306656	55.6069214673486	42.2577689927563	39.9519547348106
	40.7311497914871	43.423558862426	40.4518431978241	40.723990462047
	37.8129870676592			
HAPLN2	51.0225132036905	42.1607322031054	44.8872784170036	
	39.5050383901884	40.9950639693255	48.3686935595826	41.253645578517
	47.3791873993182	45.0017158586743	54.6089451252049	48.6767028205398
	48.9733758107788			
HAPLN3	114.288115730578	66.8693882433359	46.2625470410195	
	98.2447263268855	47.4548471240051	63.5738862549306	59.6780848951767
	64.893664076381	69.5741225986433	47.2299678280724	37.9946685306274
	42.2577689927563			
HAPLN4	50.5670783769975	47.6914221838216	43.9450023643394	
	54.4586176399381	41.467005949568	44.6524308640784	46.1634822993009
	47.7889447429963	47.0804681460898	53.4109882045447	39.4410515050885
	43.5738557773903			
HAR1A	45.3872406432794	45.2556760873335	40.931294690669	46.4555908533915
	42.7107928951766	45.7300501624017	47.5963750520409	44.0390019242862
	43.0930293831497	42.0621425894624	52.2759825608835	46.4499258373233
HARBI1	47.5647821785529	56.5319193881205	55.8810837854139	
	62.1776700757427	58.4383854340181	53.565717255469	50.0088611244948
	43.1567024035183	54.7966692984192	45.0155543555707	48.6767028205398
	47.2131144508464			
HARS	437.693269824303	260.185079572615	351.290929267326	356.226114718307
	347.003621791919	360.962191673108	318.069132873489	508.688028777582
	294.090159716249	468.98857415608	424.87896140215	347.552309199761
HARS2	301.025314855652	227.895442198856	278.303493506139	206.28819203182
	219.737294408079	165.992057520727	199.57367025082	330.814531248695
	253.398345052444	354.634819362978	323.295794446334	318.995164994001
HAS1	40.5654775358427	34.3715326040967	39.2707964550441	39.853175885492
	40.8873907150245	89.8567957512307	40.4359177791566	42.357910063876
	35.0305278582179	44.8997235283254	35.9563099719284	43.5738557773903
HAS2	45.4614234442527	45.7317208802318	42.0136658108872	46.8249967544573
	48.7847528954724	62.5177123761087	41.3094485574845	45.4216391637116
	61.6183748238619	49.9085372049438	44.5818127765109	49.1718303518849
HAS3	58.8224410806741	604.357590751951	597.191426276771	48.665578118898
	235.222472959869	64.5187138759372	225.618853905635	262.824698774297
	873.451893437179	309.802432824498	224.976641879383	515.409979010663



HAT1	80.7067505750848	76.889690218685	74.0913177754682	93.3216420803293
	80.3500323413132	81.8426140611297	80.0733119200914	83.9236799134394
	73.1215732923523	69.6511571901941	66.0282565447846	83.4033736999037
HAVCR2	397.108901822735	179.241252961119	184.964039515715	
	1533.38581753491	102.913039837094	190.81617208799	171.073367662623
	303.323289734056	62.275808835675	86.7076796107636	89.9227845135785
	142.012216533823			
HAX1	95.096268847843	79.909124697198	110.181320436731	135.323750661937
	106.276392548097	114.243522751687	104.650071846586	193.196385709124
	105.598516887691	108.213380368446	100.83436298853	115.761674855716
HBA2	1839.09068171097	2456.86796652313	2598.78910128081	11410.3307451176
	1081.97502255142	9582.11974031559	10072.2414399735	664.178866783226
	503.793770799548	10996.2779403491	10996.2779403491	1640.74027400791
HBB	1585.90718459092	1801.44003951248	1762.93413846062	11176.402230735
	1539.35554229258	7168.83136860899	10483.5643876539	516.704027135707
	504.676944739425	12125.3293116195	8703.02873382565	1806.22468459769
HBBP1	40.2543341073001	43.0971787292711	46.4569566520107	45.7397504535169
	38.1644569189523	42.157627240486	44.4639405506967	44.4031868028216
	44.0519245668737	43.2988017098387	42.170702295259	40.1700117452801
HBD	41.6354649482853	41.8073910693411	41.528370959196	47.3574589211166
	39.2608760193011	43.1826328292558	37.7136011474903	37.4484310268909
	37.9273653326866	60.4837400912239	46.0095710163378	36.449101775775
HBE1	42.2455707947223	35.4484652445078	35.0970060242246	41.8778873678551
	46.4343327861696	38.3418933808844	40.9157352260901	51.4360013601805
	48.4869909888679	41.5435611403119	38.1835938174625	36.8690774823319
HBEGF	163.43197105141	355.351648424266	157.020685801527	1545.76489731307
	138.728648830528	403.92758879201	201.360008430353	469.30167430316
	109.828760284519	66.274247400793	86.7730065232892	94.1128427766432
HBG1	33.9561816279577	43.0971787292711	42.7303139017786	51.3851157261451
	40.4639532172338	63.1091746640396	38.5066108855005	40.3357777530419
	45.2897806651929	131.083141370546	49.3901004211918	41.863927676552
HBG2	46.263826584899	47.6914221838216	48.6037684272115	48.856176220627
	52.0583273941813	86.2563919366781	48.4859552186772	44.797320243931
	44.0519245668737	165.992057520727	48.9754340235127	39.7411455670172
HBM	40.7609952437622	35.0222940937513	40.1985790927248	46.8954576545929
	51.7983110178095	43.4681646416585	47.1345949868029	43.1567024035183
	43.8482802038826	58.8022152133979	50.7903824729818	43.1805016690297
HBP1	180.475056805817	153.279284223069	155.908644253547	291.94914449218
	132.555169949054	249.729778471447	130.585540374294	145.232878862479
	173.11353027932	195.635797217403	191.284436365696	164.262531918679
HBQ1	42.2455707947223	45.3486182278177	36.4564050256915	43.3078542962968
	91.2681347227088	41.159706131351	41.9393838138203	45.4757965005055
	39.6609238036815	44.6918600441328	45.0589947942306	37.2810767789306
HBS1L	40.8681871019812	40.8476436931481	39.5118967430322	45.1151758109609
	39.512606833112	43.6427759607073	43.4544762830742	43.4885245598939
	45.1569741609597	41.0608773166058	43.9450023643394	40.6614700944853
HBXIP	704.601607617837	539.188951045594	647.868022835702	684.865133028228
	477.558242266308	456.467726693355	677.481235695517	675.079525434102
	1188.3486464341	415.477167615547	428.958127252533	810.382224368065
HBZ	39.3709357615493	39.1982470626863	39.9101908547397	47.481302504066
	45.2556760873335	42.4580504587581	37.0564573649223	37.33030683349
	38.6322728994674	42.3606390470387	40.9157352260901	44.0451487108213

HCCA2	119.714551585774	118.143444770806	116.949813289388	139.385367339095
	97.5394336319916	228.571334092678	118.736188485344	109.649431670339
	145.267770598988	227.404530886674	216.45007990575	128.230543301378
HCCS	73.6855877240541	79.856662992182	67.9850517608624	72.0112676564347
	70.506090074243	92.2772139468085	78.6402083787251	71.5484567134601
	88.9321928608078	62.9604757922393	62.9886614153696	82.7083356310191
HCFC1	424.182335137838	759.94822128584	510.379313524019	352.997455210484
	982.428740433235	471.874412428677	602.726022292973	568.638529128128
	661.269882993465	440.421077161585	506.585006700107	473.688869614777
HCFC1R1	615.011590811277	261.023196824723	355.67721196018	
	394.764369100963	247.298165265093	547.072513229674	297.990925644625
	198.010793115588	271.900886756161	811.142611128461	518.527535205975
	367.158502379417			
HCFC2	44.8914371498528	46.1569135229922	49.7350276169552	52.1201052574162
	51.3511088648386	54.8265655909623	44.4639405506967	52.5909491535773
	58.5561424827901	50.22432299342	53.7475011049549	50.7487159427973
HCG18	44.9896851005259	53.0383634135393	44.5134109184888	43.4410741327254
	65.0605897122361	41.6590564937735	46.7100796279384	46.8954576545929
	49.9162522057712	42.3606390470387	46.0095710163378	40.7704587752083
HCG22	42.3433931248155	43.0227387991135	49.3000844711116	42.5664883002833
	41.8806343997257	47.9503724044453	46.7100796279384	45.3872406432794
	44.0519245668737	48.2596564318071	36.5359455830388	43.3744503319109
HCG27	39.0620487644635	47.1332119496722	49.2041300973417	66.5921967967793
	45.6895223823001	50.7516773099639	47.2927436772465	47.5950227477807
	54.113533179847	53.0357938671646	44.1148826235374	37.1747156131306
HCG2P7	1457.72260892651	707.4124863603	848.079114196986	
	1025.7433359938	494.733185937057	572.968592371501	1243.32650314893
	1824.79010714035	769.685677484067	1621.89443989657	1731.19220270448
	1117.26060212107			
HCG3	40.8681871019812	40.716553247236	33.4240466670776	38.9534635879195
	39.6535880152834	37.0180934800573	37.6036146841933	37.7612949798895
	39.2809305246091	39.3698811593364	41.0808257270221	40.0557788909923
HCG4	468.381233506231	999.862452730252	602.047768767953	884.036280777358
	219.737294408079	203.497070457832	545.827286197333	188.567635000971
	377.573838771285	101.681822254799	202.529846569324	114.520410790135
HCG4P6	45.3872406432794	41.0678614026819	44.0451487108213	
	43.8002456102021	44.2607789091176	39.4953494583071	50.0088611244948
	38.956280281655	39.4762546236449	45.7911932481722	37.2018803984555
	40.9683275553869			
HCG9	39.6609238036815	39.3999056968598	41.3366779545815	40.8681871019812
	38.8456942580061	48.260931742163	40.4359177791566	36.8400213077707
	42.2577689927563	43.844855336215	40.0766543123257	40.4639532172338
HCK	94.9365530062692	91.8568043052819	79.3066495980045	953.629734158221
	65.3019328668633	195.740109330843	170.150808455621	78.0020909283414
	56.6079099547057	49.7259371799014	50.2203578628217	74.3442318693865
HCLS1	266.129007472128	412.694325761831	794.806085783439	2435.70120719503
	270.202959012185	669.19065220034	366.129480083279	252.616382150668
	67.8208976798364	315.186937216422	232.019748665806	238.647490689325
HCN1	36.2496364442264	33.8237407699472	45.063792968927	32.9046688061235
	42.7982502551634	40.5281496800812	39.6535880152834	39.4710743516517
	40.9901805728485	39.6719190054379	43.9450023643394	36.064718696392
HCN2	41.0970259989281	36.6002100641539	36.0306975524309	43.8002456102021
	40.0599807618105	41.4508241771315	42.8684958525042	40.6723334103791
	41.2870505273664	43.6033221838149	38.1253290586431	41.9741368971524

HCN3	73.0970339739187	68.4278345554565	135.323750661937	46.1673159982664
	92.8644908993284	48.4758590019384	84.0691608193405	69.7729022157455
	82.6157566292355	86.2118355769367	61.0094935318105	77.1954301283261
HCN4	47.8249696958403	47.6229101519945	45.2313723727673	42.357910063876
	47.0954207417646	41.554942319225	48.0283573444179	44.1311654985682
	48.2123120250343	51.6778366958973	44.7926323492519	51.6660481331154
HCP5	396.355023788839	1129.71973548345	684.238999553691	648.885062676884
	161.890859629246	131.126942328593	600.007191467065	347.145902252055
	421.146145642412	222.8744321245	1017.1803754111	202.708232693973
HCRT	44.8914371498528	46.3635803515159	45.1569741609597	54.6089451252049
	46.7508829977587	47.0940613507321	48.6395795163502	45.1714698794331
	48.5792058061372	56.057906531592	47.9942520395434	49.6629259325705
HCRTR1	35.6111578834671	38.5252456306656	39.991353369336	
	44.1483976313959	44.147557390293	43.8582747295766	51.7714254834195
	41.6466169548846	39.7537274655115	41.5435611403119	39.4410515050885
	45.5800840647989			
HCRTR2	41.3387790895716	44.5152708955623	45.3974838013476	
	40.1804147506786	46.0043807840705	40.8634043028528	44.9863726205428
	45.642304356051	47.9035532886869	46.7646877499666	40.6373400186325
	46.8129509799753			
HCST	208.804071011518	212.250918463598	190.214361156876	1359.9708539999
	89.4111455826308	548.047774435177	180.502282381416	153.165464817911
	65.0423160790157	116.67447696188	187.439021508049	103.133138547093
HDAC1	782.28158356937	1529.52516575545	1333.01876209753	715.662312404643
	2133.78836857697	737.604036996153	2196.59044510709	1425.37639004849
	1896.06380611235	1529.52516575545	1354.50256889331	1301.07436212673
HDAC10	56.8168526942685	73.6855877240541	62.0008474085033	
	53.2046867327331	62.6860949544223	45.1873487463472	63.0119737420787
	49.5185112777773	58.7382738968248	59.9354531144375	57.8991270166934
	55.9555622193202			
HDAC11	61.6544855697851	62.801431502597	40.4882741869718	
	40.0698728584484	46.0977687311222	44.8872784170036	42.7431359850339
	64.5257016285499	46.1101825640108	54.1683282066029	47.0940613507321
	54.5921287593554			
HDAC2	563.065549077627	735.60603239712	415.477167615547	302.79352975792
	294.7772562683	319.871452890512	740.423874031773	1848.50311456636
	421.146145642412	343.346644539158	345.529757315326	517.869378941762
HDAC3	189.890451486324	177.067668324062	271.334774589829	173.925818790068
	215.907790093087	176.670909065664	193.782527748199	187.923050034941
	247.356027979377	269.745248423773	190.187931547806	202.957014793417
HDAC4	69.7442393277127	63.1780854659428	49.3000844711116	80.1809075683154
	42.3685136297603	164.847648206552	43.3262148375525	57.7805922926828
	48.5792058061372	84.1639779987105	88.9538366702651	79.9447969637409
HDAC5	42.3433931248155	43.3016395799961	40.7620472083159	41.9620007529243
	38.3561682218911	49.7149784386993	41.3094485574845	50.7364620410977
	40.6503965580437	50.5252048155459	48.6494451061637	51.3244198342335
HDAC6	140.226992517573	74.4696354388511	105.515662220161	113.979504140326
	84.5572894783679	93.9228336493696	128.766242896259	117.723425661764
	89.0203733091224	181.983177572371	127.986477405999	109.492219458129
HDAC7A	48.7646976789783	55.1359824959234	49.8899020044306	
	44.0451487108213	52.3242437351389	45.6706505553383	39.8695929627783
	51.4360013601805	48.0436466478804	56.4917096880521	50.7903824729818
	51.973762640055			

HDAC8	74.7955767483841	53.2046867327331	64.1080166181228	43.8002456102021
	58.6481644777552	49.7458652239071	61.8571521441451	80.4577725550904
	68.5599263000733	65.5349012839562	73.845912534353	72.4651758215622
HDAC9	39.4987030972173	38.1725197931105	41.3743834747446	41.1418034290776
	38.8043560812482	38.5808034535515	42.2099119257029	39.0048202613914
	39.0481003400271	42.11120345157	42.5856588364738	41.2001840592033
HDC	72.9154861179393	74.4696354388511	64.2404293863468	78.7450149191851
	33.2552842693684	533.468347491982	40.3302268293707	68.0342444360948
	39.7537274655115	80.7338782543351	69.6097529955737	52.6922486991742
HDDC2	778.723771259404	572.81778857651	528.512401493184	516.992846073349
	347.486523804413	766.027617496754	558.451033789799	524.451156145427
	401.347734852083	695.255317861845	558.855313555287	591.192020333181
HDDC3	130.058147569795	161.326580647514	101.403739410832	125.801834682035
	154.111066539468	96.3976093220249	255.126812649967	176.057220407246
	165.662539866309	139.645717741863	115.676508349703	147.689479458785
HDGF	701.551782736435	521.874349042344	505.294880430281	324.506136847875
	703.315796616275	267.261896105785	625.435083064752	496.163796158189
	436.497820504526	341.666968456707	314.006301513986	355.92328557644
HDGF2	126.981964766008	124.112216491975	130.615540145155	116.76301232629
	196.034087004464	171.058650956601	193.01447006167	124.605379715077
	156.276838862671	141.784776736918	133.594952879573	109.525921548011
HDGFL1	40.3478825593224	38.0226905622357	40.301483914446	
	43.9744941494111	40.9950639693255	46.1974343793412	43.2721716572958
	40.7799172560245	41.8197029429821	40.2112371512838	40.5824352835642
	41.6550823405646			
HDGFRP3	50.379587451669	84.2484477706194	54.6820069269589	
	47.6687908290818	46.0977687311222	105.945216149549	93.5928272702304
	92.4953883194488	72.3095457386378	79.4158467034017	91.983638239817
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HDHD1A	125.540457221408	96.8240908274121	161.326580647514	
	86.0630164348952	119.572497267498	80.5478617156852	95.0190813062982
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HDHD2	67.6767845246581	64.643220133046	66.737740728688	64.3746985855249
	58.7460488758053	73.5743059777365	56.9320717885002	95.491982090349
	75.2337946941103	104.288073521816	98.6706537801886	113.277043026153
HDHD3	140.369714831352	80.257554904218	68.4720753153522	53.8086134112366
	82.6157566292355	71.2787833369055	99.5844079573552	72.121833189378
	99.5192591352063	102.294142438313	117.8523906126	85.1114448808779
HDLBP	48.1125722136997	47.4630625313159	50.6486940895674	50.2950101030503
	50.1092226717582	50.7516773099639	40.7451277736087	45.9090659324223
	50.4463723277824	44.7958122466628	47.0110068985119	46.0201052072883
HDX	42.9104454767916	49.0697565324841	41.0356368374708	45.4634652319753
	36.08956004634	43.9724628401189	40.4359177791566	43.4544762830742
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HEATR1	150.362006499825	193.196385709124	293.410413883219	
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	268.047342640491	202.459251553516	134.936657884035	158.901175732866
	157.518879763075			
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	72.4834467838798	197.205643078662	97.7415824971555	120.327382682483
	90.716460692818	127.547251770359	67.7189686993694	78.9088042058577
	86.1433529921684			

HEATR3 88.7928773498158 77.775644509079 74.4508307047509  
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HELLS	47.1216490839161	60.6548851977964	46.1987217359283	49.4742925789913
	62.9553576299033	41.6178506967511	86.3237770387663	57.7125861123012
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HELT	42.442231667357	39.3999056968598	35.9305494063137	43.074472921841
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	41.074824727477	38.528621456378	39.0550139257658	39.5418280570561
HELZ	147.65688475427	166.208731611481	141.784776736918	186.195424728755
	160.973602503707	202.529846569324	250.276530863694	177.111143479957
	235.101442092497	353.598144765197	389.686780706341	236.407697413249
HEMGN	42.7150227340364	41.6799375298398	39.050952280947	40.4893720023062
	40.5710637884029	39.6595129100865	38.3389087628055	41.0381860307445
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HEMK1	54.6235981131919	75.9802606133139	69.11736279512	60.3481762331447
	71.5345397102823	52.5330333302271	61.8571521441451	55.1933004802607
	55.9423752286714	79.6133633483649	65.485076402841	64.863894209343
HEPACAM	38.7537364570873	40.3384318592985	44.825830634601	
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HEPACAM2	40.6994262313917	42.2013327019987	39.1553169409075	
	39.9182914210537	42.4864576619427	43.9421822132391	43.5898425390297
	38.5073031329596	38.8507804383261	39.8873706855774	44.8872784170036
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HEPH	111.803238196297	39.4629815741023	45.7452456977857	50.3127977239083
	37.3508690072156	71.0369238830779	41.4369824439795	46.2779564481158
	37.241386734757	64.5845827915699	53.73245713018	50.6895263967098
HERC1	168.91210897306	148.544012961815	132.760054781304	242.282363793567
	146.701131209299	260.656475394736	182.079641528208	241.557912972813
	139.712472369259	207.957319374194	232.113067048781	197.103673938152
HERC2	156.844010597219	144.633447485038	114.533239859288	138.895316905243
	168.883366756191	151.088035451997	203.53267380432	152.555556133364
	157.7623351008	150.829277770546	153.364107550338	146.287473652123
HERC2P2	43.4079968811658	43.5627649099623	45.5533570914817	
	42.1725002904014	45.5001421579961	42.297291190584	43.6084517252627
	46.2306893704071	44.6569942625774	42.8297772945791	43.6294818685075
	44.0451487108213			
HERC2P4	44.3355304829989	37.4540772310118	38.6727842796202	
	40.1804147506786	38.1644569189523	38.4330755397458	41.8799523546812
	45.642304356051	37.6630259432398	43.3465699185405	38.9240290061433
	38.745552403895			
HERC3	64.3502363726659	75.0873720488265	69.5937318502259	61.0845101400379
	64.193536444915	83.0554837248934	43.4544762830742	51.8347877274018
	74.7934385405346	61.0935621637178	61.940656536312	77.3260618801358
HERC4	98.3126451737573	87.4273245333478	98.7535408247698	97.0055689383756
	79.3539393480885	84.1254258487497	66.3209349903185	90.8109585999257
	211.019451518444	94.0777119695783	88.715256326632	109.979856686854
HERC5	124.599352191013	144.412165495719	104.950400251642	421.791344753995
	76.6914642534934	193.875712862166	239.838643553139	267.70610731202
	103.349712762251	211.421222959783	207.087723777954	145.572606290643
HERC6	111.304424389891	222.453547273598	238.584514797019	138.053682842992
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	66.4047895961325	74.6833250738044	69.7677752398541	63.0119737420787
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	343.591727067749	869.879392791086	403.335980469043	432.807626784742
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	42.7431359850339	45.1569741609597	39.7835513496873	45.6348103033479
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HMG4L	42.2455707947223	40.716553247236	48.0191002461099	44.7980740332174
	40.4639532172338	41.6590564937735	47.4439407315335	46.4672637826582
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HMGA1	219.431561967403	147.602298697211	131.045615546105	98.3142231283069
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	201.301705082976	80.1210785681103	64.0541263553251	80.1210785681103
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	43.3832826368789	41.3177250076876	40.7340599105623	40.7311497914871
	40.1725584225343	39.4710743516517	38.8034431562381	42.1537476443423
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	56.359578588344	66.4015820814547	56.7780520416533	50.9099078696349
	69.5741225986433	58.2818491355907	64.5044423866259	52.4351670989268
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	184.750252804038	67.5812474586277	154.386505379733	241.849566505679
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	41.3755760434934	39.2248354955045	39.7162631015511	37.33030683349
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	40.9808244695721	40.9423087727566	42.0217776707284	41.4508241771315
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 HOMER1 44.6231541342 47.4740726032707 38.6727842796202  
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 HOOK1 288.190015621249 147.209004629384 159.268245287939 95.6215575902122  
 153.405734390061 72.8472187581193 293.755623192857 150.114520857436  
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HOOK2	132.117013391364	243.403622361932	303.390680076861	78.7450149191851
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	233.263058459431	210.50519205965	195.376772135023	185.378190201718
HOOK3	69.1945249877407	69.4347592040783	60.2528550551807	70.506090074243
	61.2130609867477	69.8231400816467	59.6780848951767	56.7569186600983
	61.5190597187008	48.665578118898	56.8056093987178	61.7502624458447
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HORMAD1	38.3418933808844	42.5269793679335	41.4613628725541	
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	42.0494116081998	41.1742244762318	40.1613888954735	41.2267153672559
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HORMAD2	46.6348258763289	39.0102066700839	45.1569741609597	
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	31.4517139158876	36.5393857306744	41.8613406887824	47.4630625313159
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HOXA1	39.1590964332473	39.1982470626863	44.825830634601	38.8495095797881
	44.4031868028216	44.1737502492846	42.810624012519	41.4905114972525
	41.0476065156912	41.1222709786153	41.6657053704762	40.4639532172338
HOXA10	92.3307175266839	43.8336862998829	47.646800205189	
	40.8211872708071	40.1047531921147	80.4404044229341	51.6869155634183
	40.7752992161136	44.9580538951069	71.5345397102823	78.4289643729837
	76.5758364080953			
HOXA11	53.6741873729867	38.2263227947189	41.6079958749402	
	44.9370339275041	37.5556299264699	53.8461734834857	59.1774824918359
	46.1673159982664	51.1055541075029	68.4137459386155	82.0206083292981
	59.0894921452893			
HOXA13	135.567012693522	66.1288889125299	70.2577825186943	
	42.8235313007746	78.9088042058577	118.899737794318	46.7100796279384
	54.6067620335514	84.4938528830721	81.1925839235551	127.49459343016
	123.022511916727			
HOXA2	45.0283997415478	44.3977035913759	44.6032218589199	42.1273928203021
	49.9493230064613	47.8029841385514	41.0381860307445	41.4508241771315
	51.8396275386273	50.9506778292488	49.8783924642347	49.1718303518849
HOXA3	39.512606833112	41.8566550719218	41.3755760434934	39.4652349255591
	42.5449473689701	41.5083179498332	41.9918605927928	39.5466975353131
	41.4636047919453	55.5206840401643	45.0985088502363	40.520044947212
HOXA4	50.5670783769975	52.1967540852276	61.0370242377391	43.3078542962968
	83.0497574039035	70.5025097213784	54.9765783642973	55.3122077514658
	97.2425832658887	93.5511826850067	79.7691160370015	74.0913177754682
HOXA5	190.130724966304	175.820979889343	360.342857415756	82.2766822827861
	605.145228948011	326.055799445169	271.393858310441	283.111920665176
	636.137048640939	1369.94743248835	645.702744916884	814.294297312057
HOXA6	72.4966502412724	55.8678615468603	81.2136969156029	46.614092935749
	114.093655272795	61.7091923488929	67.3976855661302	55.9303347977781
	60.5608545741456	103.607345835114	94.8036856848998	77.1954301283261
HOXA7	41.8409927585705	41.3610369241157	39.991353369336	35.2143190355414
	39.3667161654772	41.9543948167375	43.1931731665131	42.357910063876
	42.2577689927563	43.7303813515864	41.5421429082231	41.1554481567603
HOXA9	115.691017747672	46.1797803908218	49.9547657591437	41.6564075217517
	45.1137938810047	75.2337946941103	42.629412460409	51.1293275125104
	46.4164127487052	276.399037769005	175.74424749223	203.946427426126

HOXB1 68.4352167527791 62.6984594468418 67.5417980425932 86.6411972262415  
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HOXB13 47.6397712007919 38.4330755397458 37.5597671487621  
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HOXB4 57.7877627794725 52.0268699306396 44.0451487108213 43.3078542962968  
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HPR	40.148780650831	38.3322849790657	41.9666541498638	42.2496337895968
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HPS1	66.8920765290571	63.9743186148507	79.9161139112432	74.9113162056974
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HPS3	83.5069968129733	123.281175151414	91.2769094348604	86.6411972262415
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HPS4	49.8278140263915	49.1054636573278	49.0720076433727	42.8723769353017
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HPS5	72.6450859740011	86.1924491308234	83.0262409967927	221.354588127022
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HPS6	316.548339196872	500.313640131475	459.737628144571	272.11060969089
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IBTK	168.492959515167	179.322661675979	132.985150338484	174.252441615373
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	157.870937745052	221.450737998571	186.600931545083	230.649032296928
ICA1	198.623556176842	238.205365476671	172.416351632442	141.364814429951
	141.567299023381	84.5913809068614	232.147792636393	367.235521372008
	195.672836308456	285.97627172608	283.643027929014	243.489225650886
ICA1L	45.2875173643252	43.0829701603126	39.3344387353654	40.4893720023062
	49.8304479381623	53.9517841438975	43.1696495767273	50.7364620410977
	45.7226406704445	49.5542154724118	48.4916117779992	47.7596919358651
ICAM1	33.8558232866797	40.2493681589104	35.0970060242246	37.7469621225553
	36.5393857306744	35.8227939208521	39.8695929627783	38.079222289614
	36.197424053556	40.7063426028871	38.2795150354677	42.2577689927563
ICAM2	158.308338986864	270.756849919679	256.116479208201	390.331295238889
	263.125290391542	404.599730419192	187.331614826395	99.9896394343368
	194.225364352044	225.725485439572	341.142651038591	409.899024157206
ICAM3	221.383645621978	330.037433174255	340.311633794489	1398.21942794938
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ICAM4	44.3355304829989	38.8336427948187	39.6451483836089	74.8706881113318
	42.9090346219023	41.6590564937735	42.57175366709	44.0687697278114
	38.1713217245067	42.6211340086915	46.3022643383713	47.4713070963518
ICAM5	41.4508241771315	39.6995529770239	36.2683886571585	44.550322123994
	39.7568367479301	39.7394181011603	39.7576136507593	41.0381860307445
	34.7722083264266	36.2435874904689	37.9946685306274	43.2776458914333
ICF45	39.9697332660833	46.0023068797812	44.6032218589199	41.8778873678551
	39.2608760193011	53.4466111440611	43.9450023643394	50.0526763693329
	51.5229124652769	55.5206840401643	51.4413099192899	51.2318935933116
ICHTHYIN	42.7150227340364	204.039190380778	166.608353896248	
	78.1583955490018	177.334352189317	68.6424653037264	124.204392146484
	154.482760264318	115.683762821211	330.737070535671	280.117410663595
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ICK	77.2218991550552	88.2959958615748	79.2250098540901	48.9386616209853
	60.3481762331447	81.6949047529395	61.8571521441451	55.1933004802607
	68.0010662646828	61.0935621637178	65.963892742019	75.0136718534495
ICMT	133.981674663494	105.446338599737	107.251974803232	88.3459116251233
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	125.588228083829	99.1438953564062	96.2799270895937	104.928805304068
ICOS	49.1868644496737	76.5411379733694	79.4998723172096	142.048367760597
	43.4544762830742	43.4681646416585	62.1970616836737	66.1288889125299
	47.0804681460898	41.7405682794166	46.0095710163378	43.8575940017119
ICOSLG	57.1046180136491	57.6831182451733	48.6037684272115	
	78.7450149191851	81.6486527718661	57.8005007012205	72.5956443098684
	70.0697974278875	68.1674425673171	63.197604174872	69.8899273527731
	47.5025821041537			
ICT1	145.30915313164	143.590160385066	140.276520383146	109.144663527001
	183.918927595056	130.953274536639	188.887559923238	145.335751135441
	204.992039590717	90.9570747667407	117.234047261125	98.2074490157865
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	813.242005949542	236.851068206869	1395.33665255999	287.981727851442
	1645.71527614542	1945.33618761041	2393.42629339901	933.968759959712

ID2	243.952697457779	1127.96214301065	292.247095517604	410.257694738546
	169.322551237636	759.566075437072	516.213108543512	886.397061577531
	221.383645621978	399.66182195331	435.632247999054	209.61080762285
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	579.482255191456	3010.38998829232	3465.3013599062	601.611039798626
ID4	41.1523487516364	49.9085372049438	45.5883690965192	32.9879066304034
	41.6806984441849	44.5544727111028	41.5817737564592	39.7509165247419
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IDE	59.220967994972	122.849949163123	102.87193290903	78.7450149191851
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	748.913487947791	399.027079798213	344.578407722941	312.469507672374
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	106.125117937458	182.079641528208	116.913991315353	99.1438953564062
	132.473918053428	135.323750661937	139.945446129591	161.526970033915
IDH3B	414.794323433931	403.428042132639	478.682734715193	315.696895080135
	588.064524478384	494.733185937057	513.266895252699	296.664472126617
	324.506136847875	360.523229691604	385.675278463448	373.172504097546
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	289.213144287085	212.622278823808	315.799449362526	190.548265163011
	226.288835947947	213.162949250252	223.911125639211	140.05110691912
IDI1	74.3135387703106	71.2370255410834	74.4508307047509	137.677598837555
	70.6903168772326	83.3664149246525	105.802035886293	100.616027485975
	109.654559065946	50.5252048155459	63.1566669782858	76.3824005526731
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IDS	147.782301091454	131.955454394903	118.507569961357	242.673166257518
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	81.3858672064773	124.064628168507	115.962193866339	115.001179779307
IDUA	106.027997253013	222.202580186782	397.154258378193	137.555275829874
	488.183286350725	148.582198572949	147.758917745955	156.123501229126
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	50.5110359971301	94.2678678253657	85.2088054619229	82.9322141700549
	53.0357938671646	52.0999467564713	55.1099824417989	50.8999542937724
IER3	750.151825182993	450.515644056585	248.321641540666	3313.98659031004
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IER3IP1	80.5437011468815	143.728143059207	92.4350913779886	
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	116.547937420457			

IER5	183.799353414581	255.884444464408	231.472806936915	285.322305931794
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IFNW1	45.8574226904273	41.6466169548846	43.917817324545	41.2551966132486
	43.8835874380262	42.0016830644258	41.253645578517	44.9977782988116
	40.547835538778	45.7328341667151	46.972521499515	42.5365257225985
IFP38	58.8224410806741	82.0237575809051	86.2330249146534	76.2591822114739
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IFRD2	82.1323695817857	93.2133061608764	86.9032093551446	65.524821699432
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IFRG15	45.6517320730042	47.2770121962655	50.0050760710506	
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IGSF8 59.046385957117 50.6229884142872 50.9933795450314 46.0228732507872  
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IGSF9	78.8357122967692	87.9152471471338	55.094385444315	35.9521941716188
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IHH	39.4710743516517	49.9547657591437	38.6727842796202	37.7469621225553
	38.1644569189523	36.4986986135769	44.0687697278114	41.2551966132486
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IHPK1	134.19834305339	167.229755109155	142.933216800073	193.806701229141
	187.733278812798	171.501864800548	204.862161704394	123.455270940015
	154.752920877816	141.087571926258	147.719172115976	117.574549567
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	166.752205770965	75.5561597374812	125.184689092836	67.0256385495669
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	39.9444191873552	41.6373771565199	48.1352470945488	45.5800840647989
IKZF2	45.3872406432794	55.3178018558518	46.6241521517453	43.4410741327254
	47.282591828791	43.7630587657205	52.0942589368478	49.882563505629
	52.5215406262267	46.7646877499666	48.7213586071409	50.8999542937724
IKZF3	47.2862299990938	59.6359245937831	59.1533197797534	55.8709511400674
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	229.992809034971	96.034706957068	158.862722884436	153.037055310357
	171.938863440177	114.321083441061	127.345094323724	96.5813769696577
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INTS8	93.7352369697358	89.5887648181505	79.7733480606334	62.6048727240291
	122.316617618658	67.6817814091697	74.5591290353333	85.2849531543957
	133.842824493862	90.6805895192707	70.7760293129408	86.2974544521879
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	112.990752518897	95.5022104475922	94.1289383735162	167.034910927177
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IPO4	148.016994658777	120.3698209682	115.256208610595	92.4781449270918
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IQCA1	50.4260283682427	44.2630383225933	121.214084453032	50.2163892855092
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IRS1	91.31756001203	164.312946712409	310.763904671301	48.309866878365
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IRX3	455.223217772744	274.962689159729	1261.91478863258	108.779357041421
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IRX4	38.5007204246293	178.525751043592	43.0016969050339	48.856176220627
	58.2780916793348	48.4758590019384	39.8695929627783	61.016921238986
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IRX6	43.4626049853157	43.9421822132391	40.4070046183108	43.8002456102021
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ISCU	429.983084929605	633.385474385877	627.914461428624	635.906934423716
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ISG15	282.603767561794	838.974043046676	254.425072964926	196.247893540766
	150.43149196048	126.981964766008	384.280434953152	983.200149701633
	148.467977704907	98.0352049248004	145.09364961191	110.860844149372
ISG20	134.113913870501	356.079406408042	316.660303090646	1561.83892117664
	170.450752247109	144.046404221564	329.437593022939	285.626835802986
	196.709620264975	88.0664425843955	119.209804934394	80.0381580139229
ISG20L1	130.703767898434	135.997802304719	93.5717680539357	
	117.228320608065	146.405413944753	120.980558571109	119.124583755587
	149.792346524401	90.7037473522607	72.6549171886783	85.2598847559951
	107.276913085701			
ISG20L2	146.658116519622	243.489225650886	225.559405596065	
	215.131274710043	235.222472959869	140.264270771578	190.960237766104
	135.259585457958	133.244526666651	105.29989739819	162.721587349434
	123.978615472736			
ISL1	38.7537364570873	39.3999056968598	42.0621425894624	52.3004056941891
	41.6806984441849	51.3886035574416	38.941855825269	42.5435283762933
	41.6616444147804	116.311176407088	98.2581979415778	82.1365334012643
ISL2	40.8681871019812	46.0713306971594	36.4564050256915	36.1562979552173
	41.1868052124344	46.263826584899	43.1931731665131	46.5717043290731
	43.4656637536244	40.1179210534118	42.8263096141654	37.8490162439785
ISLR	254.159017331462	44.3088822189408	41.0752399035779	55.1149136190465
	42.7982502551634	88.0664425843955	40.5585676679482	62.7515429046888
	39.1433524273815	105.15507796881	73.0464199386528	59.6291051806275
ISLR2	50.9381343674699	42.5269793679335	43.0971787292711	43.9282059368202
	41.1868052124344	45.1873487463472	42.8684958525042	45.7476095696859
	39.9444191873552	43.1839109702714	39.0550139257658	40.7704587752083

ISOC1	78.2644076847509	230.486681581762	170.527024636624	91.3144101155547
	136.875335055866	95.0026207727863	118.27400376579	133.69701250532
	181.844123841452	99.2432911346944	132.760054781304	213.711954283504
ISOC2	122.136867360309	133.192618821838	146.658116519622	122.412295645862
	283.747865829282	172.676819138152	148.016994658777	144.034489386072
	270.156612086731	144.835567449189	163.844659359002	115.229070906222
ISX	45.6517320730042	45.4882438975269	39.9101908547397	43.6726153508978
	43.7517118200398	46.3715909653832	42.357910063876	48.9826868640753
	42.992884918158	38.8507804383261	42.7275315121163	48.3648494350286
ISY1	156.242688079359	208.67074469962	199.181938253995	259.958369064691
	299.428590398636	247.298165265093	241.148224648134	141.572530741416
	194.703024752864	155.01005229951	178.688550924272	173.212430860273
ISYNA1	107.836867810972	181.420545696696	159.667153030627	
	55.4180794172794	283.161835288074	75.2735539010032	131.39588569388
	64.3284163241986	169.367702213351	161.870972980732	123.868848519181
	154.08990201795			
ITCH	94.696942512529	94.5261917871909	82.3344892042646	120.068630086702
	78.3542840447759	103.139459009593	223.013058725367	140.559370165331
	137.395516155158	206.989423961124	121.936597605894	159.12163104195
ITFG1	168.737634511775	251.184621899165	384.727543700024	209.89649461562
	131.496769528338	188.912691033518	114.056623754207	112.714318425036
	174.350348527098	117.20232751191	135.92805172353	167.095818680513
ITFG2	209.524518082089	246.568253751149	249.776078532596	160.973602503707
	191.896416838806	221.015209694864	247.007210336963	229.745018977185
	391.658764737446	289.25391828279	356.410753280729	194.570513601724
ITFG3	450.271658272512	439.955651727755	468.573956652904	193.327267186222
	241.736113354506	387.039093527273	389.481124074714	190.053043382767
	517.664764759512	477.924466983414	396.493831159481	328.962069934895
ITGA1	67.1387898740161	61.8492980174846	88.1797799963114	62.8201270538435
	85.7842344710572	91.4446109489387	44.9863726205428	55.1933004802607
	45.1899271235974	77.0226403968683	70.2215218476683	101.888001006345
ITGA10	45.3872406432794	47.6914221838216	60.4809187893259	
	91.5202521578181	47.2074332636566	64.9498081060676	49.3854238365325
	48.5681478665796	45.5779686360641	60.4837400912239	66.8842530423095
	55.4635297192076			
ITGA11	245.060552951511	56.7569186600983	50.0487097583953	
	94.9785931907153	62.5517224560726	73.0686482917042	43.0269218496197
	81.8491450876942	45.5779686360641	66.0224755625662	74.8473087205709
	48.7226309877005			
ITGA2	97.7140868175135	152.187430924861	216.63059645927	94.4501786945034
	137.965622805944	45.3882138838137	68.673864919178	96.7474444319428
	149.040814842403	116.76301232629	168.67163443217	217.263889616995
ITGA2B	36.0144420013819	34.7135536792489	38.6727842796202	
	45.1944222548351	60.8550020364269	31.1150868775826	42.0605906240248
	39.9576138799997	44.4395580493118	42.1622837416589	37.9230440150891
	42.4607795638552			
ITGA3	301.904682664871	255.68068369366	542.467997217663	126.485649460666
	132.341766267192	124.628895737993	164.847648206552	192.922622120507
	476.421959423835	429.329962597147	391.528019827951	556.417356025042
ITGA4	51.6558970571712	65.3694267397114	51.8122261766744	77.0774476767901
	48.3814421939888	52.3187919317561	48.3411413510851	46.4672637826582
	45.4799270968969	47.3791873993182	43.1931731665131	44.3521099857368

ITGA5	531.36214636517	125.90746674767	237.4882538723	659.126408705362
	185.378190201718	1151.25293766167	78.3082773071531	213.590067519021
	135.800775637089	603.224267841548	637.824136761292	560.802447943839
ITGA6	43.9477262001082	53.6895401581575	53.9612654850046	43.26160898693
	45.2556760873335	42.157627240486	42.3074504864935	45.8669209716694
	45.9693232070002	54.5518174219283	51.592378351965	56.8056093987178
ITGA7	48.8333989709933	46.29198852834	47.3861758958576	52.8502823653368
	49.8304479381623	60.4065050472082	47.7390230243778	51.2623287419357
	51.0062122023297	54.8979897528792	52.7817052791259	56.7711602236706
ITGA8	41.4508241771315	45.7979032939211	42.8270038153139	41.6564075217517
	51.5888395924843	51.702461863489	37.6036146841933	51.3472428383325
	40.6957787921451	83.0700092537618	119.691133736693	59.4465684293847
ITGA9	38.8561375693335	48.2220547806679	39.5450079747895	46.4555908533915
	53.5594683028749	58.6439719071099	48.3411413510851	45.1714698794331
	45.8325181856483	46.0119912782855	47.299647867533	47.6938628797168
ITGAD	35.0202257459026	42.3550738181144	42.4580504587581	47.8164193292842
	38.745552403895	36.3845892764084	41.0381860307445	38.079222289614
	34.5633623842083	41.9666541498638	40.4504608195666	43.0930293831497
ITGAE	202.325629133577	163.028918580618	156.294411442126	173.536155357688
	115.597550918377	134.749803376372	211.964446599144	159.884578124679
	145.363725698076	168.522052983892	216.004059887037	217.848539722853
ITGAL	51.5888395924843	79.6516904169771	78.080034922779	184.898658656843
	44.6834648302383	48.9826868640753	51.9421032049606	61.5824518349507
	39.3750969348308	55.6865353018811	72.308304085263	43.7672102682067
ITGAM	97.2535496140648	81.3696465421645	61.841867306916	554.551745559065
	47.8075998240396	198.15553991394	101.898612603107	55.5578334877425
	49.9951674107458	55.0016608333828	49.7363778831003	80.0919469092368
ITGAV	450.008356194664	252.206029058968	276.699609951994	299.136348099827
	229.188779190649	236.178265404264	95.5117928427637	177.379924616924
	192.291576499908	210.50519205965	244.226756210656	349.767857026458
ITGAX	90.407200101342	51.9819543312733	53.5698357689852	391.658764737446
	47.4548471240051	50.4022543872993	64.5281945586501	58.2491793807176
	45.2897806651929	41.5838486090904	41.8613406887824	39.7763627041882
ITGB1	995.397944432196	626.749986744506	698.105755081829	640.944514118411
	557.094756796515	836.472724085903	427.540236966999	472.522115719366
	643.491217668415	597.191426276771	515.216890329893	835.171475474151
ITGB1BP1	228.882072078733	124.280024888206	147.727354881531	
	132.205423909251	195.790389809892	222.985386635178	231.893992191022
	305.279475274196	154.752920877816	149.02612008344	147.010700944686
	192.922622120507			
ITGB1BP2	40.3478825593224	41.8848959280916	39.0775870687758	
	40.5484717678957	40.2449343247539	48.7781962164988	43.8206425661746
	44.0390019242862	44.8003345643334	45.9004543328976	46.7386599624801
	50.3118072462443			
ITGB1BP3	39.8662795144616	39.7835513496873	39.3709357615493	
	42.5193208629123	40.0145811166794	41.2567470068038	44.9094465483072
	39.512606833112	40.3316153483289	41.1222709786153	43.9450023643394
	41.5961238651523			
ITGB2	1263.76838179117	714.990611155096	586.735744054398	4036.89580181979
	328.962069934895	757.833254346899	697.57030127315	427.363555286404
	91.5370872909881	123.247207157645	132.518188482163	216.45007990575
ITGB3	48.6621527194963	44.3529919625344	43.3085358214154	51.3851157261451
	43.5544347011646	46.7800033479223	44.0687697278114	43.0390857698452
	40.3316153483289	45.3530683538086	41.9908237694988	59.7999569757275

ITGB3BP	60.1705241170421	91.3941563889513	47.646800205189	
	55.0604256312495	78.1275793755619	52.5330333302271	75.164719839017
	60.5571721986885	124.56803502087	64.6446465846487	49.6706535876636
	88.0186381834147			
ITGB4	86.7710020879725	214.073500272341	517.216393517181	67.9728793995736
	158.769954040462	79.4916415027015	141.131275984303	143.215491185309
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ITGB4BP	1122.44489338159	2689.80835574654	2133.78836857697	
	815.810781070699	1549.93897368117	832.181997440212	2934.35616793443
	1468.75291542154	2551.57660786358	1375.14388134842	1453.77801653969
	1086.12171444149			
ITGB5	670.271164195182	147.371811804618	154.355197155161	180.288784077653
	237.237762964658	284.105466865264	183.336550845401	193.703214707909
	215.290701336046	288.508774004052	252.583117397109	336.390195295291
ITGB6	44.3355304829989	53.0383634135393	58.112348043634	42.8235313007746
	43.3332476888305	40.650742261428	41.5817737564592	37.7612949798895
	45.2897806651929	38.957687788868	42.7275315121163	48.3648494350286
ITGB7	113.866742186841	198.103081445734	71.4473248804357	224.373975368936
	53.6907197364586	50.8533737532786	64.4736987797413	152.17335005192
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ITGB8	47.8249696958403	42.3550738181144	34.3633615460307	45.7397504535169
	41.467005949568	40.650742261428	41.706879587091	46.5717043290731
	44.619512785899	45.0155543555707	41.2598458726002	44.2527566343661
ITGBL1	41.9407041937973	41.3610369241157	44.2405728317107	
	43.5627649099623	39.0564222526273	39.4953494583071	41.4742337714895
	48.87875862356	43.7630587657205	47.7180816682562	47.0110068985119
	43.7672102682067			
ITIH1	43.9309845324767	28.5895665533366	37.5597671487621	40.4359177791566
	34.4570158133896	38.5252456306656	35.6056062164318	33.5578650644246
	41.2870505273664	40.8049408996274	43.6629145624937	39.3575468494941
ITIH2	37.6397652536077	120.418406532204	40.4882741869718	32.1218888714537
	36.6354013629791	38.3418933808844	40.7910160811527	35.5798430594271
	38.5252456306656	34.4875013487777	40.0766543123257	36.064718696392
ITIH3	32.9174234020987	35.0222940937513	33.281531405287	33.6816578730693
	37.1565984182084	34.7983399096627	35.1307934330047	37.5511560880902
	39.9444191873552	32.9981302187884	37.6484782516569	35.1451084093692
ITIH4	40.7609952437622	50.3586212130973	41.0356368374708	41.7614975630362
	40.6723334103791	43.9724628401189	39.6535880152834	49.7309743973184
	40.6957787921451	71.2963721541702	58.133863696399	53.3059058105836
ITIH5	2878.82618761804	1850.06063216244	2196.59044510709	2160.22713775462
	1925.20977162704	1221.31634960736	2071.90741263566	2892.02001412369
	1557.42399344934	2854.82112538867	2559.659041589	2243.24648907474
ITIH5L	44.3355304829989	39.0102066700839	44.3344900481112	
	40.0698728584484	44.7829632472754	39.3841861812262	34.6720534245631
	45.7476095696859	42.1594905198929	39.5637454855233	37.5583886316038
	39.9519547348106			
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	55.1563703466328	56.4819802857598	55.695361644141	80.1144023887293
	46.581796165231	54.2830238965339	74.7669841575348	52.2832912331043
ITLN1	54.2648201582657	49.3581578587582	41.3366779545815	60.9379216295576
	44.147557390293	67.8208976798364	277.796753761378	75.4935574755043
	45.7452456977857	81.0880833950735	184.105396912056	59.987045425047

ITLN2	43.6706764143908	46.6314009405034	34.2890785915814	43.3078542962968
	35.9058393060637	43.0860383229288	42.7431359850339	41.6466169548846
	45.5779686360641	47.611018474151	45.4799270968969	37.4554876386402
ITM2A	73.9986015964321	94.7008981904016	77.5718089378881	260.185079572615
	46.572043843509	875.139073253298	70.6592421895338	110.746059249478
	52.6561576154021	538.716947884528	347.003621791919	263.636675573982
ITM2B	1052.91661429671	2721.97551918611	3124.84336032646	2122.39240932934
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ITM2C	1335.4111951034	1921.48678333837	1009.47177197543	578.311131274653
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ITPA	166.821616593685	174.469283513638	163.995560004001	112.039388952208
	233.326886009799	101.020328028769	193.897678586782	134.908982962131
	101.46584765758	118.483499958227	102.750783393253	95.3145142003966
ITPK1	148.925503526873	65.6010220593397	82.2766822827861	154.287396750021
	79.1039287828151	128.414712393554	135.012695962236	63.4570909617664
	102.559678338485	158.478919789334	185.109323245018	128.559660070271
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	44.8897737954573	57.0775902639215	65.8986841086198	58.676230030835
	63.3694113050568	48.3693338695392	53.4921736109774	50.2163892855092
ITPKB	121.104663867264	107.513442725922	140.719373122712	129.592927998658
	92.3034609409756	392.237227927376	94.8766888888828	115.328304312071
	89.3342384381684	311.985010273921	281.906398109158	136.355036262681
ITPKC	60.2547250212462	57.9509155144056	74.2769881586739	62.3936376596431
	68.0414563597154	153.626578526803	69.1414574152997	90.2915974511786
	100.476750028832	73.6240672213673	77.7714622826402	67.7662831916293
ITPR1	89.7554896946341	75.8280474316969	72.5835488194631	328.721532812392
	57.5685357492202	450.759762047652	121.945468001236	75.2101993995344
	116.388069891158	169.18132209076	160.056757080676	241.706783147271
ITPR2	53.3967242431461	51.0175677516029	50.9933795450314	96.7799695976296
	50.0580547772867	56.2736599756843	59.5205055437765	48.0582855095143
	63.955655956484	58.9836017745712	54.2999306485758	53.1182952086284
ITPR3	1408.59798540643	1384.80615431656	805.590413262364	439.241483765416
	752.837247653926	323.576613035353	1249.41227924272	500.241231327789
	637.565156571985	484.968116511768	446.37035118289	615.227000137328
ITPRIPL1	40.0270326792985	40.3021896270845	38.6727842796202	
	42.8768096578102	41.5668884168669	40.3034574135048	40.7910160811527
	40.047314525032	38.8271346375425	41.4606714407332	39.9899430628542
	42.7303139017786			
ITPRIPL2	211.421222959783	607.431621448599	750.151825182993	
	385.439417884202	245.194730981772	283.111920665176	190.053043382767
	261.326713935356	206.571946834892	250.993396750789	361.023743912857
	399.66182195331			
ITSN1	87.1183334887694	85.1950626054282	111.409762290528	91.2715671868725
	90.775821431366	217.065944053174	113.198141130994	93.1668080716761
	114.535461066963	136.736085245679	128.04037427867	133.040933717958
ITSN2	40.8681871019812	44.5152708955623	38.6005272730664	40.7481155008596
	36.2048942610546	39.6251842352088	40.6216891610774	39.9576138799997
	41.7233690251839	40.6559419616644	38.1835938174625	42.934549734195
IVD	139.999709303614	138.314834472957	145.250323683031	125.333208461509
	338.000998124097	132.059215102854	130.506891299903	135.706144105357
	124.064628168507	150.572774995368	206.41879845205	147.388500451427



IVL	38.957687788868	40.716553247236	41.0356368374708	35.49696651597
	40.3452320167286	34.9849896310235	33.4316681623175	38.079222289614
	44.8997235283254	42.5664883002833	46.8954576545929	42.4607795638552
IVNS1ABP	143.383133346874	124.738024302128	163.16724817696	
	699.488969175268	117.165519915808	115.321592104747	197.703414428714
	111.522812019895	141.594428857706	103.607345835114	103.826044798469
	159.393207489822			
IWS1	195.482216656634	173.236617176892	193.758357282411	156.69976952483
	229.512022912803	193.395549316561	147.758917745955	201.977265056102
	218.675464231277	149.173801572239	166.097017297742	244.109166881519
IYD	39.5676051939342	39.7835513496873	40.931294690669	43.5627649099623
	37.4470183315826	43.6670755115848	44.4639405506967	44.2159020605784
	40.8970401536578	36.5806287103157	43.5710871617107	41.4508241771315
IZUMO1	38.1169703906207	39.2907645923217	38.9790184198145	
	46.1673159982664	38.2496050953547	41.554942319225	46.8613212048981
	37.0390589468421	40.6957787921451	43.1839109702714	40.4504608195666
	38.745552403895			
JAG1	131.483899499125	183.002191434723	262.824698774297	183.918927595056
	159.697488404476	157.568088397305	204.659954879641	116.967446594767
	116.461730749198	378.12777235743	362.615047009897	264.924262411772
JAG2	119.947688643528	116.094881058504	365.401746744015	92.3787087536027
	139.905295316081	66.7585874672879	51.5119005564951	71.4564394972198
	156.497017347274	147.782301091454	136.552025379187	97.5534379346899
JAK1	163.62024333166	206.450109223116	255.365088438518	320.889609846069
	140.853812988562	220.36831243882	134.796819654047	104.089998273812
	186.522518256229	76.1382217104599	114.5696064637	219.805214090875
JAK2	51.0225132036905	59.9682734755814	67.5417980425932	96.7799695976296
	54.1225249245036	81.8426140611297	51.5967098638347	70.2541961995753
	54.113533179847	65.813547096222	73.6362523983338	66.4626619269287
JAK3	42.442231667357	40.4359177791566	46.6588655218735	40.0698728584484
	39.4693871570028	40.1428591998404	36.5352572191451	32.4466419672036
	38.9834959368496	36.0481934423077	40.2649309204478	40.0557788909923
JAKMIP1	37.7384958256497	40.5400384479766	35.3649449469275	
	38.5252456306656	36.6354013629791	38.2293008890613	34.806104801006
	33.0038344711883	42.357910063876	33.2987269789328	33.8558232866797
	39.5418280570561			
JAKMIP2	46.0023068797812	42.3550738181144	44.2405728317107	
	69.5544840164738	40.0599807618105	45.6129956328415	41.4742337714895
	43.9366081640576	40.0403898620771	41.7405682794166	48.4717951775049
	44.0451487108213			
JAM2	77.4999637278723	66.3026572113793	72.5835488194631	119.670948133232
	50.2163892855092	245.923368125413	40.4359177791566	62.1934012861178
	46.1101825640108	149.719453306304	107.538934056558	147.471179343348
JAM3	521.710190052245	177.29096218424	165.992057520727	253.605641311356
	145.77302334589	1466.88103496067	71.3527183280827	239.96421556928
	66.3209349903185	898.668526777346	795.381998233245	598.404003732481
JARID1A	141.471672990444	134.258351436533	153.028210322286	
	236.536058101486	123.768417863139	130.506891299903	216.45007990575
	219.134220280612	206.899594905509	175.876518898179	169.75692324104
	126.753713093485			
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	232.944023917808	628.84789420227	213.799316520531	399.027079798213
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	413.067407579649			

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47.0804681460898 43.401782064778 42.170702295259 44.8372404608604

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72.6824533717231 50.6470461863549 50.3245489035833 65.8986841086198  
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99.2432911346944 73.0433648756396 121.120217132666 99.1769280484821  
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JMJD2A 78.7450149191851 59.8102324370568 57.50915811428  
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41.7614975630362 42.4864576619427 52.7156971154405 55.2088411137193  
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JMJD3 49.085741080241 77.1737254584648 53.8724557170772 110.666686474986  
47.8075998240396 52.5330333302271 62.801431502597 77.2834482217973  
54.113533179847 54.8979897528792 47.4630625313159 47.8931773060789

JMJD4 54.7786516309154 78.5174639327946 70.4794854241035 55.4180794172794  
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JMJD5	43.0001432913058	44.1239711172417	48.7039705048129	41.5464765641928
	43.004943518025	43.5752393599169	43.5627649099623	48.6441988290952
	44.5303781239209	47.8207974930031	46.824299585607	45.6692241948108
JMJD6	53.4921736109774	53.9275079525238	51.9490810272761	83.764882413379
	57.9161791762225	65.5226841723958	74.466989900636	54.2301964914419
	53.6210959113222	56.4553747079294	59.9682734755814	61.3851695159988
JMY	48.8333989709933	59.4908919662362	53.9612654850046	71.9062462001972
	52.2089306840125	56.2736599756843	51.7714254834195	65.0656365694468
	71.1894129030602	71.2409890549638	63.7963501146829	56.9379721393904
JOSD1	101.103458852775	112.316483867372	88.6771566133367	243.015896514493
	103.720371491639	107.148000219752	141.630277976624	145.972133104142
	119.167027972122	108.788705797019	89.4747568145717	136.20629436945
JOSD2	85.1950626054282	85.8945498067934	71.4473248804357	101.560929859785
	99.8699868526053	120.392561825049	81.0331497830643	114.719721626067
	106.165518810891	116.67447696188	125.786923817078	85.3431175579775
JOSD3	41.8409927585705	46.4385386401326	42.4580504587581	48.856176220627
	44.6834648302383	46.3715909653832	44.9863726205428	45.1714698794331
	42.5406888281114	42.8936990772838	42.357910063876	51.0013344286851
JPH1	48.6621527194963	47.2055133646385	78.7103847663605	45.5869891570251
	67.0163226819964	61.1022920882065	72.4651758215622	61.5824518349507
	108.098254669378	113.090530993447	87.129027106167	136.883475451494
JPH2	49.4742925789913	43.4681646416585	44.0028192158386	40.3180310664156
	47.973869237177	152.294357984689	44.9272279146193	47.3226997815962
	43.4290452504928	89.7299583757595	88.4897895318663	104.704892803169
JPH3	154.067791946816	45.4882438975269	46.2625470410195	47.3574589211166
	63.3638417360105	59.9174456081704	48.1747307200218	48.0582855095143
	45.0017158586743	44.571915452417	42.0750889188255	44.0451487108213
JPH4	35.2267149016596	43.2649781354792	44.5134109184888	36.0481934423077
	42.7107928951766	41.554942319225	45.1017494688414	36.2539950294089
	35.9645119596869	49.5265949137207	43.0971787292711	45.0985088502363
JRK	45.4507786740825	43.5873188565519	43.0016969050339	40.1804147506786
	43.3896803974186	44.8872784170036	42.5660695551615	44.0390019242862
	43.1180113655693	41.4659679379482	45.2685999173781	44.4067063477243
JRKL	53.1309801459151	53.3094843669564	58.2251348002272	48.1662933382789
	61.4366256816323	60.4065050472082	53.4921736109774	55.3122077514658
	54.4912806027381	53.0357938671646	52.022479439889	58.2251348002272
JSRP1	45.3872406432794	86.6411972262415	67.3469281984384	450.972039573066
	70.6903168772326	47.9503724044453	102.77259665192	121.172652675767
	62.9922928277769	45.3530683538086	44.2925355984056	41.0657892043496
JTB	3010.38998829232	3869.93390477952	3343.07293372655	2513.15722262176
	3653.59181300011	2248.64628069362	3465.3013599062	4093.70002166179
	2611.32405374107	1683.24873205783	1480.95754707554	1676.22158135012
JTV1	321.171736253617	345.529757315326	317.0659599072	300.703401968169
	561.2769907009	310.120875196999	443.269396125834	344.887504955742
	429.453114391562	199.294913752704	277.204818876581	277.12373983597
JUB	36.9721666683086	45.2134010996333	42.7303139017786	40.9022255200169
	44.4954892619459	41.1194494565538	40.7451277736087	37.7315666632629
	42.992884918158	43.6701228397031	46.5650556481721	42.0424641526302
JUN	1501.67042548971	2354.00192115549	1208.33498233518	832.181997440212
	260.964562714558	3800.19142219719	2160.22713775462	1679.12630849964
	752.837247653926	1601.52194699063	3166.48568397766	1357.41745370754
JUNB	510.82619253142	2039.89728774097	1197.13566108661	1418.94307844471
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	608.886783362316	1096.1705171588	1311.88650141004	460.04552567416

JUND	4717.02689540013	7075.82842238887	4216.69417265779	4277.93019582362
	3562.96193568469	7393.77508374057	5354.58328030315	7562.42822724655
	3490.63949257581	4986.44888767011	6819.74871209328	4717.02689540013
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	901.793120584383	206.103296228683	995.397944432196	764.571579067138
	1197.13566108661	964.268294825556	694.590958116425	328.176884082116
KAAG1	40.2543341073001	38.0226905622357	38.6727842796202	46.614092935749
	46.8674366115656	43.2805590023412	43.3262148375525	40.1474543172332
	35.7973685350741	35.2880714952489	42.5426057453993	37.8490162439785
KAL1	66.0303950772736	43.5873188565519	45.8844325913247	57.2856683017619
	40.8873907150245	53.2046867327331	39.5496902678788	44.797320243931
	39.1790517315259	44.2580151149956	38.3684202018524	42.2577689927563
KALRN	40.7063426028871	42.3138951003676	39.3344387353654	42.1607322031054
	38.8775560911841	43.2219358930127	42.442231667357	41.599960574499
	39.1790517315259	44.8997235283254	40.9157352260901	38.6948848106802
KANK1	78.1313732870053	246.568253751149	71.6050174762551	77.7973642829228
	114.935101645207	279.448591201269	152.47776741936	119.545018066492
	88.0877175295544	301.457545514208	241.31366702947	226.023657887826
KANK2	147.498355916596	108.734392572981	134.271727318694	104.8505815954
	92.7836745985234	728.023307553872	65.8986841086198	75.2101993995344
	85.7111041637416	282.445037659981	315.276749671783	241.706783147271
KARS	232.019748665806	248.194954741095	294.048088688381	228.933483421328
	220.79051545138	242.135519563833	254.983975710833	271.529471399941
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KAT2A	333.566613571224	429.576301511638	583.421166842011	160.777879976503
	1307.19925493293	235.33716196909	325.769076169162	353.076989769287
	331.935072199058	697.837976820516	450.865888317246	457.502917254598
KAT5	42.442231667357	51.3084273211359	52.2132783757422	47.6687908290818
	45.3675390992851	53.3185097662527	52.2476631126873	48.9826868640753
	51.1055541075029	52.7972156492746	59.1443775199516	53.655233033193
KATNAL	175.125791527244	166.535245140901	176.27162536342	
	137.176719695561	163.809567262808	208.30969642805	173.343091136741
	147.557451530784	126.826715174564	144.17470770145	126.204310123186
	149.24022100428			
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	47.7462490950965	41.8806343997257	77.4578596822431	47.8179475230844
	46.8339790776308	40.6533975461148	59.6565330440648	56.3884556031093
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KATNAL2	38.957687788868	44.3187284857534	44.6511073781104	
	38.1421709520616	47.3791873993182	46.852437033077	47.5130990528612
	37.86982638952	50.5368663784059	47.7800121097582	47.481302504066
	47.1060577218993			
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	107.111886993156	124.791747507205	92.8131698915896	203.228211195516
	87.6435494489518	137.916048669047	96.8240908274121	92.4619796591359
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KAZALD1	54.7786516309154	54.0052948715814	37.8386378737561	
	43.3078542962968	41.6806984441849	140.063595285844	39.0458123429605
	41.4508241771315	46.6944238390932	80.3915591207869	66.5539062525344
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	45.7397504535169	38.2083710281545	156.008696165877	39.3585350448719
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	44.7771939752086	39.1832968442811	46.5952288260503	42.7782216342806
KLK3	42.5193208629123	38.2263227947189	40.5289532121417	39.853175885492
	40.4098450813524	38.3956445058349	37.9430145836712	38.7981173437121
	36.7657614042911	38.6454098044474	37.1617810121175	39.4888702378044
KLK4	81.2359429678503	36.6968906669565	39.7411455670172	40.3180310664156
	30.1388203764747	37.0180934800573	43.9450023643394	55.9303347977781
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KLK5	55.7246872330059	40.3384318592985	41.2365089689635	46.614092935749
	42.9090346219023	41.7196307387855	41.294200401933	39.0102066700839
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KLK6	156.382146982116	40.148780650831	37.0187570354067	72.9752827496503
	41.9842695818285	40.7616966228404	39.5496902678788	44.293922970134
	38.8495095797881	40.6533975461148	41.0050831223107	39.9941474864076
KLK7	45.9090659324223	48.9259041798949	44.6032218589199	59.8102324370568
	45.1899271235974	44.7044140979108	36.4564050256915	46.0633179231318
	44.5678064264717	45.3530683538086	46.5650556481721	48.0350549043063
KLK8	46.0398513158469	44.5544727111028	43.3465699185405	42.1273928203021
	39.6535880152834	38.7340969861754	41.5817737564592	43.7731874801003
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KLK9	33.9561816279577	37.10170285405	44.0451487108213	38.0958223740111
	38.5512429290626	41.4508241771315	40.2154497375715	43.844855336215
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	36.08956004634	37.1317006162938	42.357910063876	41.8417024632349
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KLRA1	40.0557788909923	47.5647821785529	48.8941062980393	46.8954576545929
	42.4864576619427	42.4580504587581	38.2933870238743	42.357910063876
	55.5086026637973	45.6868589181768	38.8507804383261	47.1060577218993
KLRB1	89.4747568145717	91.640286556353	146.543232229227	567.534792333871
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	41.2740822675592	40.800866389165	42.2577689927563	42.4864576619427
	41.3481355128089	42.1414432370095	41.9083581529276	45.1735152121056
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	41.7929491793697	40.9967936671247	40.6130792100165	38.4085832916721
	41.4417765092034	39.6333888530279	42.911855821602	40.5703581862752
KLRC4	32.6285977114039	41.159706131351	43.9450023643394	48.9944486068347
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	39.4693871570028	45.5772632530809	39.1878770155069	39.853866204927
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KPNA2	71.2246788429078	81.0057400164851	60.7530213660442	49.260242314197
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	128.391264770998	44.1379638573455	46.2560238004757	52.1186591838715
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	109.456162739433	108.111248374368	99.7807691901691	107.154549409927
LARP2	62.358854072801	74.8706881113318	67.8283214323848	74.3523005665671
	70.0946091883744	66.0411740221276	73.1407519625966	74.2004711747326
	74.280612516205	72.182385135126	68.4045402746031	86.7710020879725
LARP4	68.8005532048281	73.1107343633971	61.6510502615429	74.6159297822533
	64.0354923953233	73.8651427228332	70.5534237141767	73.362936710475
	90.0420794458477	85.8154958329408	74.3766944386886	94.8717345601966

LARP5	427.972184856393	419.46223841313	414.539381761279	356.948763043851
	419.993482471924	295.999383698826	682.35345164708	312.530335465784
	588.854342793207	368.390023942835	440.351682914344	298.089522641269
LARP6	136.657213529097	65.2702686717535	61.9293105089291	101.494432845825
	76.6160788176402	193.806701229141	153.643631245787	150.723391206253
	87.9206275762349	154.455976468088	159.949298350852	159.844078593375
LARP7	150.685575301101	197.232697438521	205.510539955583	187.689343320587
	173.536155357688	260.426488908824	143.399636653204	138.840039960639
	202.154195547644	144.711001798454	166.208731611481	217.743953847269
LARS	263.636675573982	176.492987902471	231.893992191022	217.456127221867
	209.581180285499	277.069127740648	199.152637378893	370.64147085217
	254.82779318297	239.316215255944	304.033573873184	332.276510973163
LARS2	62.9952378379206	96.0838701986116	127.694844372277	69.8314582428552
	160.566474370004	71.0645521832919	129.965747812294	62.6984594468418
	106.361958225818	88.9738853594498	105.118498939628	107.440379066528
LAS1L	64.7766649630041	65.5367689605146	68.3234331335073	68.1992221684165
	74.6833250738044	78.0586153423713	124.324905704041	70.2541961995753
	109.241121384212	73.9732553364283	79.6198202883864	82.5312123120641
LASP1	2067.66516256598	2248.64628069362	1526.94101719128	1455.64106630257
	1850.06063216244	814.991871217268	2791.75465171135	2498.54878472152
	1950.93175239958	1408.59798540643	1123.99110499679	1241.21734508421
LASS1	54.931538325692	43.1805016690297	42.8270038153139	51.0175677516029
	43.4544762830742	48.8744644207821	45.1017494688414	40.931294690669
	39.4762546236449	47.0055981216687	41.5421429082231	41.0657892043496
LASS2	165.640362974584	188.042978085327	182.551901102169	154.829574442056
	180.398903465014	153.028210322286	148.871702513875	309.898593637521
	162.106596527489	145.509901200987	147.269661124015	158.081235081686
LASS3	41.2424637338424	50.4872122867759	36.3604951341921	40.7481155008596
	51.6869155634183	42.8598805316863	43.8206425661746	42.5435283762933
	41.4636047919453	43.9450023643394	43.0971787292711	46.0633179231318
LASS4	70.6065558064758	44.0409178714232	43.0016969050339	38.9534635879195
	54.6820069269589	44.8872784170036	69.3468840908665	140.559370165331
	74.220854748627	81.2992152187529	86.582851157193	75.2431285480772
LASS5	166.399121350223	144.835567449189	283.484056482174	205.413872130332
	105.018199901228	182.204124363356	244.226756210656	193.569399061809
	211.253227661874	261.687486828996	228.499788774214	180.502282381416
LASS6	409.639730837881	895.735191953679	400.506633704584	474.155196153863
	466.935292808402	414.062259640915	430.868309653765	659.396637478356
	295.061449024268	375.529704925121	484.968116511768	511.067537752967
LAT	56.6086202928268	51.9421032049606	49.4067286971348	74.3523005665671
	49.1130028157777	45.2414128265839	43.3925093042325	51.4931742685391
	41.1241827976738	52.5055930058351	51.0492389286271	45.223075311113
LAT1-3TM	69.2322821603564	56.6146179789815	71.1521292570086	
	79.4528447794527	78.0077300979911	60.4065050472082	58.7585623394335
	169.322551237636	56.9320717885002	59.4969799685856	58.6464918752765
	48.6037684272115			
LAT2	65.493000026614	53.7332797903102	48.4497719907777	243.15571937138
	44.5152708955623	76.2665254494195	63.8478970698139	48.7213586071409
	44.4812539947185	47.0055981216687	48.4941605474599	49.9433644436637
LATS1	43.2724556187214	38.6414316877471	40.7222199182322	37.9875302985336
	39.9697332660833	40.1930209223556	39.2780515621926	41.7877325563821
	40.6957787921451	44.1379638573455	40.4995052849302	42.357910063876

LATS2	49.2595762436995	57.2871072823547	62.9967097752591	86.3663084195994
	61.5236837309467	96.8185145589133	48.0283573444179	57.445796273665
	43.5669306063196	55.1089864632456	54.4140381300469	60.3816817102326
LAX1	44.6231541342	105.796515736125	99.8231023149756	325.275883498219
	44.7829632472754	119.714551585774	60.6548851977964	66.1288889125299
	45.2897806651929	53.9412154719864	58.133863696399	46.3411353377615
LAYN	72.1408243034509	64.408176016319	76.7791768896805	76.7806009547111
	66.7426485694967	65.9014252111112	52.0942589368478	59.5830868881343
	53.5677764726461	61.8529316708431	75.3969721155153	92.1646038105091
LBA1	104.573463811298	145.492831993859	147.137598111239	157.677866955988
	91.2681347227088	157.658760470424	121.945468001236	90.9010016862442
	92.0711167984454	153.660685857642	150.636903991608	85.5175308034109
LBH	106.620429405618	86.5414905689606	69.4418805893822	68.8167148906225
	59.5177293266879	58.2924877745079	47.6810611485413	57.8405769800773
	54.0626629538146	56.3690629871551	75.8976034525022	78.8320129013551
LBP	40.9558083259517	44.2630383225933	40.5734458834617	41.0726336841311
	43.9450023643394	42.9695585740813	37.830876898596	39.6474008369935
	39.853866204927	42.5664883002833	41.8168470823451	34.6720534245631
LBR	47.3791873993182	61.6219790276408	80.4404044229341	72.7934987008399
	79.4442697175874	92.8951148347802	63.5738862549306	52.2355943901685
	70.6467150815052	46.441301934328	51.955049625266	64.9418945936106
LBX1	38.8561375693335	38.3322849790657	35.3649449469275	40.4359177791566
	36.8442943492616	40.5805725503899	39.1539892144371	39.4710743516517
	41.4636047919453	42.8414096678708	40.040778349137	43.1235886043549
LBX2	55.1306642449627	44.9370339275041	48.4890615340603	42.0102671859606
	49.8304479381623	41.3553369544097	51.9421032049606	46.5717043290731
	57.1016072897358	44.1379638573455	47.1477056711335	39.5418280570561
LBXCOR1	44.436995101921	44.6918600441328	42.5406888281114	
	40.7481155008596	39.3667161654772	37.2686490268265	36.7356360093603
	47.7889447429963	46.3203995372658	42.5664883002833	41.2598458726002
	43.4709415392696			
LCA5	52.0299937917925	48.3077814647455	43.5710871617107	39.9697332660833
	42.3685136297603	58.0095518210499	39.4600924554505	42.4580504587581
	47.27543600687	50.1649089793069	47.1477056711335	43.1805016690297
LCA5L	41.4508241771315	44.5152708955623	42.9104454767916	42.5664883002833
	51.3511088648386	45.1873487463472	42.4939802311136	45.7476095696859
	52.1186591838715	40.2112371512838	40.0766543123257	47.2131144508464
LCAP	42.6036491382658	45.2556760873335	44.014441886238	43.5962371290832
	41.2424637338424	41.554942319225	42.5660695551615	40.7799172560245
	40.4997186069494	44.7520317855773	45.6348103033479	40.4639532172338
LCAT	43.0001432913058	57.6831182451733	55.4502804236424	51.223859150798
	47.4548471240051	45.4882438975269	50.2016912396771	39.1652965788406
	47.6195009345747	57.3562426592112	53.6334631215581	60.6653636336244
LCE1A	41.7397731376692	40.7952353240579	39.7411455670172	39.6292788039793
	41.0885562160946	35.6125439901743	40.0052661202207	41.5464765641928
	41.074824727477	51.0055825931636	45.2265319826548	42.2577689927563
LCE1B	43.1805016690297	42.9358255168086	41.6079958749402	43.6726153508978
	43.2484996523549	40.650742261428	41.8315602975157	42.0494116081998
	40.3316153483289	41.9666541498638	45.5707650534259	41.4508241771315
LCE1D	39.9697332660833	43.3458769998118	47.2055133646385	45.334106390212
	45.9104478407175	44.0804700754786	42.0605906240248	41.9315419791594
	38.8271346375425	45.0155543555707	47.0110068985119	39.4490233720848

LCE1E	38.5007204246293	39.7509165247419	36.3604951341921	35.7330837268961
	40.9450021938518	34.4896350146096	37.55264801907	38.610211769318
	37.9793521263255	36.7426129383934	35.2034069152893	37.7217193704498
LCE1F	46.8141313516997	29.0303154053123	36.178547300352	37.4223289687135
	38.3561682218911	44.4619248757502	37.9430145836712	34.806104801006
	40.8970401536578	39.1621898366355	36.3390947880186	33.0217499673686
LCE2A	41.9407041937973	42.1607322031054	27.4352294118391	44.0451487108213
	38.5512429290626	42.157627240486	45.3597029614942	36.2539950294089
	41.2870505273664	37.7315666632629	46.1673159982664	38.745552403895
LCE2B	38.5007204246293	35.6434124419782	38.9790184198145	36.3604951341921
	38.5512429290626	38.2293008890613	36.3194282084339	44.4031868028216
	39.4762546236449	34.8137085420423	33.8558232866797	38.1421709520616
LCE2C	34.8099089553046	40.7952353240579	41.6079958749402	42.1273928203021
	35.9894133432376	45.4882438975269	41.253645578517	32.6039814489621
	39.853866204927	42.1622837416589	40.8225507267584	41.2437378488025
LCE2D	38.6454098044474	40.4359177791566	38.9790184198145	36.3604951341921
	39.859345745831	36.3845892764084	42.2577689927563	36.7460922671619
	37.5469247328848	41.3321861371202	38.8507804383261	41.7575097298927
LCE3A	39.6609238036815	37.8217989841918	32.2133093774284	34.7266486944713
	37.1565984182084	36.3845892764084	40.0052661202207	37.2237132058632
	34.5633623842083	37.920964499903	38.3684202018524	37.2810767789306
LCE3B	39.3709357615493	40.7952353240579	43.9450023643394	45.1944222548351
	50.2163892855092	32.6368705146258	46.3057385979341	42.8482181313226
	36.9060997041453	41.1222709786153	41.9083581529276	33.8196020406676
LCE3C	40.0557788909923	38.4330755397458	38.4043916290561	39.3750969348308
	35.0181575202066	37.2686490268265	44.9863726205428	35.1738399826814
	42.6366765186182	41.4397539024976	39.8184668132023	47.9566297250148
LCE3D	38.0089018744739	40.6380495994768	42.2577689927563	38.4208429103799
	41.7929491793697	39.3841861812262	35.4623691645629	45.3872406432794
	37.5469247328848	35.195364621675	39.3667161654772	38.745552403895
LCE3E	36.8072833828297	37.6383530120621	47.0940613507321	38.4208429103799
	39.859345745831	40.650742261428	44.2166118829877	39.6474008369935
	45.8325181856483	38.8507804383261	39.6403089864678	42.0424641526302
LCE5A	50.0466349801009	39.6123051184545	45.1569741609597	41.6564075217517
	41.467005949568	44.9896851005259	43.1931731665131	43.0390857698452
	40.8970401536578	46.1390887492649	43.0016969050339	43.1805016690297
LCK	44.9370339275041	45.4757965005055	43.3567925731226	46.8954576545929
	42.9655396732962	41.7148762080045	45.2875173643252	44.8623097069578
	41.3468610075772	43.1472052452951	43.6236257870216	40.8277078176464
LCMT1	246.433145017965	285.053017606956	447.248719481853	255.800286504974
	536.73426937255	313.115027781064	430.618167106529	486.757854744053
	301.139592414061	250.799060762208	252.649651285136	237.532800487032
LCMT2	139.062073456923	144.239350177363	73.845912534353	85.1847490113446
	181.966839676473	122.405413080836	162.486448421519	152.920586451578
	158.493140172253	91.9185612536409	110.214922820817	105.91905761474
LCN1	36.2496364442264	45.0905928998779	39.1799070031819	41.7614975630362
	47.8075998240396	42.750861693377	42.1607322031054	44.6107027295193
	42.5406888281114	39.8873706855774	43.3085358214154	43.5738557773903
LCN10	38.385865183581	43.5873188565519	46.4569566520107	32.1218888714537
	36.5393857306744	44.7804080899431	36.8369172900902	39.7509165247419
	38.5252456306656	44.8997235283254	38.956280281655	39.2469742642337
LCN12	43.6706764143908	38.3874422458351	42.2577689927563	46.6849259108754
	48.0234896130991	39.4953494583071	41.9918605927928	43.1567024035183
	42.992884918158	42.7275315121163	46.201352759435	43.5738557773903

LCN2	5177.04105968809	231.198764780818	899.223276238109	858.975085087497
	208.7739716139	229.926637466766	6819.74871209328	474.155196153863
	616.912306849151	78.3851687801705	121.195506364658	820.147156401172
LCN6	40.148780650831	34.9262464079777	38.2280071951674	44.9370339275041
	39.9697332660833	50.7516773099639	39.2533668167483	39.6474008369935
	37.1820543575123	41.7405682794166	65.088713927995	41.2437378488025
LCN8	36.1232327599945	40.7952353240579	39.991353369336	39.5050383901884
	41.8806343997257	37.0180934800573	49.8281348927244	38.8495095797881
	39.7537274655115	36.5806287103157	40.9157352260901	39.3575468494941
LCN9	49.540449125788	39.1982470626863	39.7411455670172	41.7614975630362
	45.3675390992851	39.7394181011603	46.7100796279384	38.5457716679071
	40.2274522635576	40.6022003765153	43.3085358214154	43.9541718254769
LCOR	106.140215438654	183.714803682303	151.205675888138	139.554519110944
	86.2836002982515	112.873697337138	165.107387190373	340.429325650126
	171.485221601137	460.340300658834	303.670126704469	277.665554240228
LCORL	43.4626049853157	41.6069493017095	39.2388980107385	47.420942961753
	42.0709558258414	42.0847226073592	42.1607322031054	38.4128104869434
	40.4518431978241	37.6637152940566	44.7926323492519	40.6614700944853
LCP1	1430.73068989193	1009.47177197543	754.903348372161	4858.39551231606
	642.211963248041	647.297964303385	1297.78424326775	748.372940917543
	713.685405035516	244.560715635796	316.917793468502	262.327538467461
LCP2	50.4872122867759	49.6203214143464	51.3268475761593	290.546420262364
	54.0126916508417	46.4648868771662	48.4859552186772	57.445796273665
	46.3203995372658	40.2112371512838	44.8872784170036	45.0985088502363
LCT	42.0833588105728	39.8695929627783	40.6737160001291	39.3750969348308
	36.2048942610546	40.5805725503899	38.7745734037492	41.4812544772644
	41.3803269429468	41.8613406887824	35.860430241131	36.3454320848591
LCTL	61.356483470053	45.1694246393676	48.6037684272115	53.593974682612
	47.2074332636566	50.7516773099639	43.5627649099623	38.8495095797881
	55.3122077514658	44.2580151149956	44.6286581923295	52.2832912331043
LDB1	41.8409927585705	42.2577689927563	41.6079958749402	38.8495095797881
	42.0709558258414	37.7000400506818	49.3854238365325	39.9576138799997
	35.6970528713709	43.1839109702714	37.8372168909583	40.9683275553869
LDB2	235.33716196909	150.723391206253	306.578554914328	267.475563253966
	154.111066539468	337.948887427898	60.7992483126292	170.327588764719
	61.1560835966725	230.0537444836012	294.813541173888	167.920131968611
LDB3	40.8681871019812	40.9291911731327	42.4890076400051	42.0102671859606
	42.6615964978834	41.1201550367451	40.2601451506332	39.5215827396813
	42.4682481612094	44.619512785899	40.4094901248527	40.7042849030193
LDHA	2024.4791883541	3114.05035137552	3234.36469403715	4148.07163380544
	2257.78227736778	2911.10227993347	2528.6392272518	1152.55315876935
	5971.45293864208	1197.13566108661	1117.26060212107	3361.67247904403
LDHAL6A	43.5710871617107	37.10170285405	42.3536549114165	
	44.4367387274922	40.9950639693255	39.2248354955045	41.0381860307445
	44.6107027295193	40.6957787921451	43.0919221375514	37.0180934800573
	45.5800840647989			
LDHAL6B	37.55264801907	35.7393138893354	38.1421709520616	
	37.3600014814388	39.859345745831	41.2098211956301	36.2561152084183
	39.5083491499018	39.6609238036815	38.8295492252264	39.2542963855807
	38.7012264805355			
LDHB	176.991120397205	943.73554571528	556.092573451208	332.322497133752
	481.698684512916	515.216890329893	476.653723741096	322.774093041134
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LDHC 41.9407041937973 41.0269624684418 42.5406888281114 43.3744503319109  
 43.6782245625941 41.8161064926185 40.9157352260901 43.1945567870367  
 41.863927676552 41.2276963324981 40.4504608195666 42.57175366709  
 LDHD 38.4330755397458 45.0905928998779 50.8303921211581 46.4555908533915  
 37.8343741244069 41.9543948167375 90.0682241853516 43.5544347011646  
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LIF	68.6627996695828	52.683711208052	47.5673419710251	53.0284011078097
	56.0477607422828	70.1074782747874	65.1041577962151	132.52749757795
	47.5564423692142	42.0621425894624	48.3847843498476	42.2577689927563
LIFR	42.9104454767916	44.2105195734073	45.310660704531	44.9370339275041
	42.4864576619427	63.3612993417558	52.8496345990125	38.3684202018524
	46.9739160257217	51.9547984751408	61.0094935318105	45.0035308952466
LIG1	196.389446842567	169.838827072973	182.079641528208	94.080489738662
	153.660685857642	70.5699797830702	198.257381933305	142.309369995384
	262.735075993242	127.49459343016	84.8084949516218	95.3145142003966
LIG3	75.5431466087264	55.4106986624448	62.0008474085033	50.318696054607
	76.153346954349	64.7905331739366	69.2582988646396	75.6223346148565
	68.0295963383707	69.8231400816467	70.999734997491	63.9869572942624
LIG4	41.3387790895716	47.5647821785529	43.2734966874463	47.0033848638449
	49.32293280121	51.0041669707586	47.2927436772465	49.2532817667694
	44.5303781239209	41.800198520267	42.5824910860403	45.7562276914441
LILRA1	42.3433931248155	41.8848959280916	39.4710743516517	
	41.7614975630362	39.6535880152834	45.1873487463472	38.5066108855005
	39.0620487644635	41.5635499110307	44.8997235283254	34.266241549578
	45.5800840647989			
LILRA2	44.8914371498528	44.6918600441328	46.2625470410195	
	221.743315748689	38.9496515344837	60.7488007939604	50.5252048155459
	31.8228237796461	36.8127605061228	39.7835513496873	39.3667161654772
	43.4709415392696			
LILRA3	44.7915315085948	47.9128504683618	53.4088637045445	
	288.335410596699	44.3557408297309	58.3882937676176	112.805898501551
	43.9604529016594	39.9791973792384	38.9207612933107	43.6629145624937
	41.3948836161924			
LILRA4	32.5418171758086	36.9994058279362	38.0452862258803	
	34.9221408381038	28.4576210094757	40.8634043028528	39.2533668167483
	33.8558232866797	38.8271346375425	36.6893251782922	44.8872784170036
	37.0953622406687			
LILRA5	80.6844261396045	49.2934904960601	47.2629127279171	
	486.487366153374	59.7629007954215	67.8882074477657	146.701131209299
	66.8684224881475	41.6285300488826	41.4397539024976	42.6913548400127
	63.6966761077037			
LILRA6	40.148780650831	41.8848959280916	41.1367478979484	
	45.7397504535169	40.2062851265091	41.9097689475185	41.294200401933
	41.9721968713295	43.2239171482126	41.0057887014368	41.9455842688118
	41.6086894860496			
LILRB1	1254.34397143795	735.60603239712	1004.28134410536	
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	1921.48678333837	554.163106145921	1573.61108703981	1513.74711975248
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	316.831358204198	51.4230529326653	65.0391287166255	79.953657052127
	54.6603683143597	42.5880983514685	42.7211272990786	44.1642484298135
	44.9645354363967			

LILRB3 5566.52516420571 3088.44063817936 3786.90274075023  
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LIMK2 54.8153573978511 65.4589642146912 70.1347490781514 133.610670717456  
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	35.2163900400329	41.7627910693483	41.8315602975157	36.5393857306744
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LIX1	43.5710871617107	39.0102066700839	42.0621425894624	44.0451487108213
	40.8873907150245	44.0804700754786	43.1931731665131	46.2779564481158
	43.0930293831497	38.2069499294002	41.8168470823451	48.1627097465883
LIX1L	71.2963721541702	61.8492980174846	62.9313387640547	121.737071786167
	81.2359429678503	123.493308132159	57.7805922926828	58.8022152133979
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LLGL1	282.445037659981	269.963186760811	261.195021649777	120.679433440203
	222.696947669812	147.033637977077	395.634889855838	205.510539955583
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	47.3172462673426	39.4607972824612	43.5865682375507	45.8095171770165
	50.977432027367	40.8970401536578	45.8180710486329	43.2776458914333
LMAN1	43.2724556187214	47.9128504683618	47.646800205189	38.3166554965434
	40.3452320167286	51.294537308199	38.8417151851134	42.5435283762933
	48.1174861108648	40.6022003765153	39.2542963855807	46.8129509799753
LMAN1L	42.6036491382658	39.0894172982439	40.1985790927248	
	41.8778873678551	43.4544762830742	45.6129956328415	41.706879587091
	37.86982638952	45.6582729799009	43.6033221838149	42.7275315121163
	43.8575940017119			



LMAN2	51.413025495745	50.9643363406241	49.1067959632109	61.3747706295648
	50.3713170502557	57.6034762511847	50.6774883370457	50.0526763693329
	59.5093038629766	49.9493230064613	58.4816190076338	64.0541263553251
LMAN2L	161.7095047889	105.902612356755	138.81810375553	
	98.3948200992292	215.68113524702	168.78407943637	110.729504563799
	109.137372445043	131.645714321903	201.301705082976	187.888403806895
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LMBR1	96.0236731791095	157.906415100288	189.164097331837	147.689479458785
	207.30460556799	142.846665249354	98.0023132593711	96.8240908274121
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	43.9282059368202	48.9627346956003	56.4819802857598	50.0088611244948
	52.5909491535773	49.9162522057712	43.7303813515864	53.3078448066074
	47.9566297250148			
LMBRD1	167.578081645481	564.468049419762	405.148979342648	
	305.619340338331	197.421622315466	446.757901018137	240.6614822416
	231.333080775773	289.410651581802	344.737170118121	481.905052451245
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LMBRD2	54.0990839134272	47.765848710116	49.5424425850549	
	43.8002456102021	44.4489662507893	42.9695585740813	44.6032218589199
	57.2350830635912	54.7966692984192	43.401782064778	45.0589947942306
	49.1200355938198			
LMCD1	245.630020408551	99.3596089438084	112.159199477006	230.879083362388
	130.184962393833	975.02086340962	74.7534423194688	170.327588764719
	55.1253465069845	184.025325436339	253.764071470001	731.071171171638
LMF1	53.0290605707162	50.1027491117756	46.0727230219512	47.8164193292842
	53.3086645804786	45.2852528185486	42.4939802311136	48.5681478665796
	53.4604353973381	58.5087296620514	57.8991270166934	50.7487159427973
LMF2	327.024556075244	234.556113280762	238.584514797019	335.249352041342
	279.782392390288	229.159869771704	236.759651096748	348.450810225807
	228.054565950253	411.857557412386	340.429325650126	214.427113386942
LMLN	43.7585538437696	47.2055133646385	57.50915811428	39.2780515621926
	59.8102324370568	39.8455060654531	46.9929836306816	35.7973685350741
	41.1742244762318	46.7646877499666	38.6662194645633	43.5738557773903
LMNA	445.307046237791	328.387270297393	561.509463439533	387.631477822638
	355.00914527669	646.323419285676	390.834121304799	470.676006277762
	316.256605575595	334.349204174886	355.568857981155	261.326713935356
LMNB1	80.0866955521632	135.644934816665	71.5484567134601	237.693838921691
	138.728648830528	69.64983895075	185.924923239764	103.945335792682
	110.983311402531	43.4885245598939	37.2892641289258	51.8562635270111
LMNB2	279.521995263196	553.328261478032	255.365088438518	208.30969642805
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LSM5	349.90835241442	346.116601612353	276.550265506988	313.528012643479
	555.356799014777	330.470972281607	383.371300272181	392.237227927376
	529.977491403949	217.189489936251	245.996655628334	381.426926151034
LSM6	42.9104454767916	51.119812302881	48.3847843498476	46.614092935749
	46.4343327861696	39.9397419279057	44.7255207589606	43.3262148375525
	55.9423752286714	45.1569741609597	44.553780984244	51.5741598315033
LSM7	669.419736252343	1237.93130196998	891.080174768895	600.34379987143
	3421.24021192326	1105.00321488322	1658.86829668934	871.238169066998
	1829.30985071028	559.559234461244	690.568858101531	728.257836227637
LSM8	98.4930941487534	86.9032093551446	82.9449579428926	97.8309399470621
	117.893268074013	102.163854544231	80.6634117492762	94.6432868887401
	107.420552630045	66.3956936248447	73.0970339739187	71.7408778060956
LSMD1	142.585892496231	157.250548147161	247.416016413788	221.743315748689
	154.355197155161	238.584514797019	253.462941029119	166.572463787763
	168.492959515167	192.564048264712	176.866350130563	199.007437365676
LSP1	55.1306642449627	62.5528124447176	62.1642339365777	117.005559382662
	45.3991914045361	75.9982017195791	50.6001747368221	53.0446815750355
	62.6860949544223	61.3919023984003	57.1514228214026	49.6629259325705
LSR	84.0838244121421	102.760704801607	69.5544840164738	42.5269793679335
	97.2696348255648	54.4753345912615	177.27613997459	80.9907498621309
	128.208688034402	68.0556717366572	64.514219270247	52.6922486991742
LSS	85.8362180324381	76.5816788793344	108.08526252608	77.9085946827079
	100.83436298853	94.4999269932618	94.739351091808	82.0682043421788
	97.6326743942878	77.1767494799711	75.3075812535743	69.7095546047257

LST-3TM12	39.266565827316	37.10170285405	40.4882741869718	
	42.8235313007746	40.2449343247539	39.8455060654531	42.0605906240248
	42.157627240486	40.8970401536578	40.1179210534118	36.7283081422707
	43.2776458914333			
LST1	61.4121672148248	62.275808835675	68.2557347293255	350.796638646601
	44.8446015771755	83.7019398654324	106.190104122745	68.0649030501515
	43.9104473952446	53.8716214229685	48.4717951775049	48.2123120250343
LTA	47.0940613507321	56.6927078228789	48.3847843498476	95.9391851122771
	42.3685136297603	44.6524308640784	52.0942589368478	51.9447450229707
	49.9951674107458	43.7303813515864	50.5188367542048	43.7672102682067
LTA4H	355.7118155732	505.018127833201	588.247843264181	1416.47763911039
	498.608204176238	519.775555680262	502.67939538729	439.770250139925
	726.42773300581	677.855726232203	606.481020597082	671.458899624447
LTB	85.7208881534518	233.692490031492	140.853812988562	613.27814206548
	55.8709511400674	65.1291617069903	151.266092912661	141.572530741416
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	72.1154333023225	59.0686629877982	74.2690269784394	112.930164222877
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	37.9875302985336	37.956732373465	39.8455060654531	50.5252048155459
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	43.7630587657205	41.6373771565199	41.5421429082231	41.7072675309997
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	145.14768503072	167.095818680513	100.344513700137	99.9896394343368
	128.485596739193	144.290966198687	174.148714092395	96.3918711895208
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LUZP5	40.148780650831	38.2263227947189	42.157627240486	41.7614975630362
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	684.865133028228	455.444228161475	331.762920362224	592.989860385203
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	42.9887069977696			
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LY6G6F	41.9407041937973	37.4540772310118	39.1799070031819	
	36.264823544143	42.3685136297603	39.7394181011603	42.4939802311136
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LY6H	50.0802438185974	50.0425298550559	56.8168526942685	50.1185085888209
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LY6K	40.7609952437622	46.3635803515159	45.7968648044613	42.0102671859606
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LY75	35.8208542506595	39.0894172982439	41.8751578329365	41.8778873678551
	42.6022652963326	39.8455060654531	43.8206425661746	41.5464765641928
	43.7630587657205	37.7315666632629	34.3633615460307	44.6484005362281
LY86	113.113062709739	79.909124697198	63.7744603935682	325.172633427119
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LY9	41.3708420203838	46.6314009405034	45.0017158586743	69.113196436009
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LYG2	41.2424637338424	42.3550738181144	40.301483914446	39.1706564265495
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	140.853812988562	50.0748292497578	41.4244721780607	45.4277931036827
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MATN3	54.2648201582657	45.5842286511645	41.528370959196	38.8495095797881
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	42.9020321355927	44.6918600441328	45.1432412071268	39.4490233720848
MATN4	35.5631236789214	34.8956628705329	38.5045333213784	37.7235613375742
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	60.2417579280647	50.7266835538507	48.5858417196146	57.3697604614404
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MBD2	40.6980379702667	51.6527806785838	47.3861758958576	51.290704469313
	40.4091351714709	46.3715909653832	43.8835874380262	42.6786833450085
	53.5224822626949	41.785676764591	41.134180463103	46.113826596024
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MBOAT2	77.441946514938	59.135659721231	62.2200723764909	
	54.9919060580109	51.6869155634183	66.6320017520888	73.6855877240541
	90.0682241853516	72.7381690659677	74.0614295574729	72.1955435994725
	74.8170892324966			
MBOAT7	212.302291274084	487.065758294354	466.074595343541	
	432.001201940414	401.202348352506	168.17913316957	395.457351443921
	379.031536537372	822.822769402853	533.468347491982	602.726022292973
	324.320137371059			
MBP	107.576033955049	201.301705082976	112.328675926999	304.658728492827
	87.8724689898823	141.154520472188	143.913007288353	88.715256326632
	131.99898435227	251.803102904399	196.623560874725	305.959643033169
MBTD1	201.764909400617	121.45753287862	122.052907748249	144.427680369554
	94.9104200955155	75.9713712509177	188.30834153268	267.523307072523
	102.605473054584	230.73977644867	254.239142284878	162.160380044249
MBTPS1	278.850071205987	299.890705180422	334.170764774986	
	243.015896514493	229.188779190649	248.797398220982	249.246628143531
	213.028412890553	244.466972245417	260.964562714558	276.267583952979
	252.206029058968			
MBTPS2	42.8036731479932	49.4067286971348	55.6865353018811	
	53.2046867327331	47.6884372645373	49.9699131196797	43.5627649099623
	48.0582855095143	47.9035532886869	43.2988017098387	40.3452320167286
	46.8129509799753			
MC1R	151.740176274202	82.5344501505114	90.7037473522607	94.080489738662
	95.1131101630937	62.9688525319822	61.3620062177524	106.292775688671
	99.3797043236938	74.6847594297153	82.3364971911816	87.8967913380047

MC2R	37.2474303302343	41.554942319225	40.7620472083159	50.0526763693329
	36.2048942610546	36.3845892764084	34.9344532055397	37.4484310268909
	38.8271346375425	37.5343260962758	36.43924066428	43.8575940017119
MC3R	41.4508241771315	38.6414316877471	46.5650556481721	39.7411455670172
	38.745552403895	36.6996187567892	39.8695929627783	41.9315419791594
	35.0305278582179	37.3179578037963	45.6348103033479	42.4607795638552
MC4R	39.9697332660833	34.9262464079777	36.8730514568925	43.074472921841
	40.5710637884029	39.9397419279057	34.6720534245631	39.3709357615493
	40.4220196471124	41.7405682794166	41.2598458726002	47.7962548556026
MC5R	34.5886782974123	40.9731067463382	36.6522278218553	41.1886975241176
	38.5512429290626	42.8598805316863	31.098971689775	34.4896350146096
	38.0213051227859	39.9948390976317	44.0409178714232	31.7413650507468
MCAM	34.6977013306396	43.1805016690297	48.2883694323339	38.6414316877471
	41.6806984441849	54.5952754712007	39.8695929627783	40.4359177791566
	37.4540772310118	52.3304586399695	49.7363778831003	45.3763275588341
MCART1	1991.4199819544	723.853348464335	979.468753716758	
	1357.41745370754	698.595302020108	569.966632625157	1282.9181829891
	3001.25236839028	750.151825182993	2384.00264993279	2672.94421680196
	2313.21212353993			
MCART2	39.0620487644635	40.2493681589104	38.0958223740111	
	38.6414316877471	35.6434124419782	38.1699123824764	40.4941260038116
	39.42235444019653	41.9083581529276	34.9138625012006	40.6723334103791
	39.8497227447888			
MCART6	41.483412492426	43.5182502375207	37.0642268327439	
	44.3440839686558	42.6575535390785	40.3357777530419	41.3094485574845
	40.5640952422779	40.7847110517594	41.9097689475185	39.5399188536544
	40.9683275553869			
MCAT	73.7800733276454	77.2218991550552	64.7318794662958	49.9672547361866
	100.645556491457	60.8250302910721	99.2432911346944	71.9369353731849
	79.0276852011359	53.8260140375214	60.4620008899889	59.8400088701028
MCC	43.9309845324767	50.8114699212931	67.6373573669424	45.5869891570251
	55.8173045043348	45.4882438975269	45.6042625176633	41.1575777497576
	55.6617952786921	49.1928206164702	52.8489752025797	58.8188963227059
MCCC1	187.672799470683	406.668753694984	402.412173952792	158.364437886751
	508.474794786176	219.291627770586	968.405745860353	432.001201940414
	405.852280880924	735.60603239712	498.284928805673	778.723771259404
MCCC2	94.696942512529	208.97126697486	174.752830194939	50.5310598656998
	126.360723656793	76.1019439127881	109.615289274998	95.9391851122771
	117.282216847547	57.165971310746	68.3157692917711	76.7791768896805
MCCD1	43.1805016690297	43.5873188565519	43.8495248991589	44.550322123994
	47.6884372645373	41.2567470068038	50.2016912396771	45.642304356051
	48.9931786790166	42.8936990772838	42.2618615571566	40.7704587752083
MCEE	248.924819383887	221.450737998571	224.480311257437	271.900886756161
	170.184914156265	192.666532389331	205.279698624867	175.652989203497
	148.144200968432	170.560304063093	141.79653024085	259.855509977658
MCF2	40.8681871019812	37.3634897565502	44.0451487108213	44.550322123994
	42.6022652963326	38.9378717994178	41.5817737564592	36.6452480995946
	41.3803269429468	46.1390887492649	39.2542963855807	40.8681871019812
MCF2L	45.3872406432794	44.5884811528117	43.5710871617107	37.1894304543751
	43.7517118200398	39.3841861812262	45.8980298854198	40.831207953647
	42.9020321355927	43.6033221838149	41.9908237694988	40.5703581862752
MCF2L2	44.5798743103596	43.683792219729	46.8267540220952	
	44.2166118829877	44.6202070855297	38.1169703906207	42.6913548400127

	44.6511073781104	43.2163597439147	46.614092935749	38.5668610487033
	39.7411455670172			
MCFD2	109.649431670339	62.4914906186314	88.5601339449828	100.774098314706
	77.7140342228764	120.284321694275	57.5955320223035	91.9919654450652
	72.2527203451447	75.9802606133139	75.949657568749	107.440379066528
MCHR1	39.6609238036815	41.6466169548846	38.7745734037492	38.4208429103799
	42.4864576619427	33.4492509999281	34.9344532055397	36.43924066428
	40.8970401536578	41.7405682794166	42.6366765186182	34.9138625012006
MCHR2	48.5835484742456	42.7275315121163	44.9758339877851	40.9141850646578
	49.0828761839116	44.3648993568405	43.8206425661746	44.7044140979108
	45.1569741609597	45.7328341667151	45.5707650534259	48.9944486068347
MCL1	162.955976144315	251.299662213686	202.957014793417	594.611678976716
	161.422918681934	331.390452289344	176.936216428226	524.047008889711
	145.459578481501	110.048921728774	123.868848519181	133.781790945099
MCM10	105.05842887748	82.966263655525	57.0427273538849	60.9379216295576
	149.475318376458	55.2515150764173	184.938142193035	102.457537266105
	110.699536638528	39.7835513496873	43.5710871617107	43.7672102682067
MCM2	250.959527806799	245.060552951511	129.697400781396	154.829574442056
	443.425400626341	114.769498252688	530.314249832491	307.974082654351
	330.892010103508	86.3374157614394	96.6294773538052	103.561100886469
MCM3	947.656220635965	975.544591158047	516.992846073349	277.014526407597
	1023.81381775221	384.401256392893	1071.64675274806	760.745188431719
	799.803676957263	703.315796616275	748.372940917543	684.865133028228
MCM3AP	178.881586334601	197.720854621428	268.265540230814	
	256.026804821501	376.215561392485	193.703214707909	167.229755109155
	193.981651711507	198.288493088076	241.278168450381	220.79051545138
	214.691909801388			
MCM3APAS	48.5835484742456	46.4385386401326	59.9690744676539	
	45.8844325913247	50.0580547772867	46.574682061365	58.8993834673475
	48.87875862356	49.9162522057712	47.2299678280724	46.6442692119997
	47.7962548556026			
MCM4	176.43047680293	439.106576928682	295.127975044241	118.625610664218
	553.094571132092	144.412165495719	584.889303693522	487.540800793233
	604.357590751951	154.847446197442	141.977447082092	164.122105098254
MCM5	219.134220280612	286.243476131448	202.360546931172	207.540972220982
	255.946758662074	114.190951215203	486.911782180966	270.110273110996
	376.141477833569	122.702789229752	122.849949163123	114.142157259903
MCM6	570.824732318332	685.386956092142	454.106740411779	493.322302312578
	843.333981146512	475.621740714165	1026.51177853708	643.9329225331
	858.228943026906	224.266559865201	193.649113002244	282.90107781812
MCM7	256.426184741007	416.972264086884	230.975122271137	155.762961582213
	426.933064567744	189.865569826568	475.008345432596	303.93332785291
	508.688028777582	209.658186168638	170.475212920685	175.165302282522
MCM8	448.787414220553	278.140612054333	335.818251279914	488.089090043145
	265.520773157991	195.836475280084	350.106705208362	776.670493028756
	235.574006931404	569.966632625157	541.105845300009	450.008356194664
MCMDC1	48.5835484742456	44.8529259387308	54.6051538001037	
	48.309866878365	47.8075998240396	43.2805590023412	47.8947595316832
	42.9301944191913	49.2879849674517	44.571915452417	45.7328341667151
	49.1200355938198			
MCOLN1	197.515728627482	203.092045210928	233.07404514708	
	762.855719373733	470.676006277762	364.141443387516	260.232090974645
	297.701126167694	149.139710097196	199.54796711653	239.792011765323
	138.748233664345			

MCOLN2	58.5759178381027	66.5141009463313	62.5610562594275	
	211.019451518444	52.5645416722441	47.3791873993182	58.3675164086197
	84.0899854321388	37.10170285405	49.5265949137207	60.4620008899889
	44.1452943804044			
MCOLN3	42.3433931248155	43.683792219729	42.2577689927563	
	72.6824533717231	40.148780650831	44.812853905056	53.3111230705754
	52.4518619184838	41.7233690251839	47.1785588364488	63.5716064500377
	45.3267183347084			
MCPH1	53.0290605707162	66.5864907685351	61.2153068100932	59.8102324370568
	49.0828761839116	65.813547096222	53.1884505015411	46.5717043290731
	52.7512110769042	53.3059058105836	71.4414688202373	62.8485724004124
MCRS1	266.581466060604	314.091389958069	326.121479451246	219.702703529829
	246.20973320244	204.064420098696	313.921236120658	207.833867050257
	387.039093527273	269.284584971871	247.723546145775	209.986313475002
MCTP1	39.8299340037009	42.5269793679335	46.6588655218735	84.3589195870713
	39.5111866657136	52.5745485771927	39.3895791800635	39.853866204927
	42.8036731479932	41.0529409675663	37.1617810121175	42.357910063876
MCTP2	38.7537364570873	64.6970918899831	50.6004078448405	66.7750249658122
	57.9161791762225	47.5733603903505	52.561573697155	45.7476095696859
	58.2401724760744	41.9666541498638	49.0361180089431	61.8529316708431
MCTS1	54.931538325692	56.6146179789815	63.1450855271137	78.0020909283414
	73.0433648756396	65.3096524773304	77.2154078285418	78.6911549149983
	83.8679756709676	52.0999467564713	60.4620008899889	74.5173894803763
MDC1	129.014076422249	104.015868591647	90.6191520659197	81.6780581904253
	105.825228126465	104.305801811472	113.322929203297	80.9092480872499
	80.5437011468815	76.6346767983285	95.6182216943758	101.156215957297
MDFI	35.3227485563945	38.5252456306656	40.6737160001291	32.0298369224145
	36.3390947880186	39.6251842352088	30.4430902995779	31.9468644542969
	31.0594903826598	32.9003644440608	37.3687900733549	36.6603338274678
MDFIC	64.7766649630041	71.0935990523782	91.9919654450652	61.8997157694697
	77.1287755867582	91.9459432547337	54.6414321010929	56.0496524902806
	62.370559099758	47.0055981216687	55.9269493191353	75.2431285480772
MDGA1	49.540449125788	46.2286164776607	43.6670755115848	35.8472302065546
	42.3685136297603	50.5148383400703	37.9430145836712	45.4757965005055
	48.1174861108648	48.8623729374733	51.3103617600342	46.917149434588
MDGA2	43.4626049853157	38.4330755397458	40.4070046183108	39.5050383901884
	38.745552403895	41.4508241771315	40.7910160811527	46.7980335276155
	41.9635525160083	40.3235655331796	37.9230440150891	43.6753843488695
MDH1	1377.24483375075	1305.35453202355	1473.52943897204	1327.93833415582
	1686.40194722823	1430.73068989193	1327.93833415582	1445.73674428909
	1910.5347560855	822.822769402853	1020.75813028358	1249.78418100778
MDH1B	37.55264801907	37.6383530120621	48.1331309338997	38.2041059863839
	39.3667161654772	43.8582747295766	38.0598374201407	40.1474543172332
	39.4762546236449	41.4397539024976	42.4580504587581	40.4639532172338
MDH2	2755.23573327276	3143.97163345458	2791.75465171135	1506.33570635551
	3153.71394627237	1910.5347560855	3244.27810937143	2551.57660786358
	3520.7579823657	2712.36664370642	2374.1766901821	2951.88559311416
MDK	237.237762964658	711.773459577386	179.629622763381	87.9098670472958
	256.026804821501	231.304658157247	979.468753716758	775.515071756239
	954.116675685628	97.0055689383756	128.966814822678	151.266092912661
MDM1	45.4321966598751	47.303320038958	50.6606962867606	43.4410741327254
	46.3150221024046	53.1457020450516	46.3057385979341	41.7419877611072
	45.9828778193335	42.22763273471	46.6882473842548	45.5800840647989



MDM2	39.1125272232764	41.554942319225	40.1985790927248	41.1886975241176
	39.997661145727	38.3984625132524	41.3094485574845	40.9861485852278
	39.3750969348308	38.8025302527057	40.1742127891824	39.7411455670172
MDM4	45.1912496459517	61.3838877877366	72.0243286940589	49.7350276169552
	53.1884505015411	47.9503724044453	40.9157352260901	44.1311654985682
	47.3791873993182	46.2286164776607	48.2050207071554	58.6481644777552
MDN1	46.9939712192224	54.8439819445945	50.6987358483181	51.5913529948887
	54.6820069269589	45.4882438975269	54.9765783642973	52.0503062610092
	54.4912806027381	48.6124127998952	48.4717951775049	46.7182294568603
MDP-1	92.7427427543974	77.5737637002275	99.8231023149756	104.672760332135
	56.359578588344	117.699959435983	74.0039764902057	80.9092480872499
	92.0711167984454	87.3815040456105	90.1284518302601	80.9092480872499
MDS1	36.8072833828297	35.0222940937513	41.6079958749402	40.8681871019812
	36.08956004634	34.1806289878747	38.1793598983615	40.5158867964016
	37.5469247328848	42.2614524730856	37.2892641289258	47.2131144508464
ME1	52.502055890816	54.5374188496807	39.3709357615493	54.8412943008635
	46.9906120932727	124.751020763508	59.1774824918359	61.6839343510302
	53.7442594289333	66.0786923699684	63.2684764441521	67.1675878355908
ME2	126.253578620746	189.542991004953	160.459991480576	226.970981973829
	110.540953771795	209.363955566338	131.955454394903	129.236597599908
	134.407474121421	97.2004257862686	123.455270940015	175.165302282522
ME3	57.0430104900107	104.860298453006	71.501028931626	57.5666238219027
	68.9258122619781	81.1761078123004	99.2824152850072	69.8231400816467
	72.4220552950926	103.470005076276	85.9596109950132	77.5290879537731
MEA1	289.716911324484	137.302487233881	181.516519907011	176.492987902471
	225.589127792587	182.836805462079	257.711912004	192.398575159246
	229.971492699272	179.629622763381	177.757247913754	199.970127219451
MECP2	54.5358897781765	51.7983110178095	52.0742951366864	52.1201052574162
	62.1836961153924	70.380703483689	44.3440839686558	41.0381860307445
	47.0804681460898	64.5347406608537	58.9676332048764	53.2046867327331
MECR	51.5888395924843	67.8208976798364	88.2959958615748	42.6222445667107
	60.5290966885203	64.4065381524425	71.3527183280827	65.5237529271975
	53.4921736109774	65.1516921033166	69.652475454588	64.7598303406649
MED10	353.674963012657	256.426184741007	203.178221073902	294.51382100172
	178.323615832679	299.74710723735	377.315812006339	232.516262874696
	279.063292799015	233.635083076472	254.874064929741	251.2365884576
MED11	52.5792653122861	47.2055133646385	52.2132783757422	50.5310598656998
	44.147557390293	44.0804700754786	43.1931731665131	47.7889447429963
	40.8970401536578	43.6033221838149	47.6125796208753	47.0130468198828
MED12	114.288115730578	100.139490974785	101.577767481269	119.253559091088
	90.2652818919579	96.8185145589133	142.03031230486	138.783011990219
	108.42710653018	141.386644354989	123.978615472736	94.1128427766432
MED12L	38.0089018744739	39.1982470626863	39.6451483836089	
	41.4273122914951	39.1650142708257	43.9724628401189	36.7356360093603
	37.1317006162938	38.3418933808844	38.4187686307607	37.3687900733549
	37.4554876386402			
MED13	39.0620487644635	46.0023068797812	45.645828394758	49.7350276169552
	39.3999056968598	42.6575535390785	43.6753843488695	42.157627240486
	42.38204124321	39.6719190054379	43.4424616940528	44.1452943804044
MED13L	53.8856501960117	47.2770121962655	51.223859150798	
	42.8235313007746	42.1650127805175	59.2643906275025	48.6395795163502
	47.2009420656854	52.3579564953125	48.6124127998952	54.9765783642973
	50.2163892855092			

MED15	68.4906691348625	65.7457567201236	57.0427273538849	64.6945454069792
	61.0468099710416	62.8946975076799	72.5288683768049	64.5531442955004
	72.2120805585702	74.8706881113318	74.9006142438341	59.4889192275198
MED16	210.807094064209	229.130963999337	265.667557678228	169.500205172068
	329.437593022939	192.058030454066	264.263104842911	251.854446030066
	257.761541860837	232.113067048781	272.879564902621	184.048982286364
MED18	50.5670783769975	38.4330755397458	46.4569566520107	39.5050383901884
	39.6535880152834	42.4580504587581	46.7100796279384	50.3082459161777
	44.8997235283254	45.7911932481722	48.9754340235127	44.6484005362281
MED19	146.333318667921	183.854020356927	222.40005420611	186.64040927334
	327.238337722366	182.293430713391	412.072103136251	198.705875080904
	225.161257242118	138.027432399991	137.555275829874	163.011116329807
MED20	380.4099232546	266.634368304904	248.861100647206	229.971492699272
	456.757277476069	246.500690127803	355.319959025243	228.254228465645
	303.670126704469	379.098697147575	361.524083649962	393.209708455013
MED21	43.9309845324767	43.5182502375207	42.2577689927563	45.8844325913247
	44.9936360641969	45.2852528185486	43.5627649099623	41.9315419791594
	38.9834959368496	45.5776159432079	47.0940613507321	56.1875519519366
MED22	142.492693744683	117.389308836013	84.9280683258012	102.483081702338
	125.891602778425	173.11353027932	189.705164944697	125.946162432491
	120.679433440203	153.177725521199	135.41852974791	118.49449420132
MED23	95.3754438202863	92.5391033814713	100.139490974785	87.0045333192221
	76.5375674421131	72.768998788927	84.1327646296491	73.4447529556358
	72.5027069303875	95.0026207727863	90.1284518302601	85.1718404558939
MED24	255.126812649967	181.966839676473	201.875082892488	139.847976281228
	257.851199206959	170.082014272945	355.92328557644	216.911833562615
	422.817392818858	189.737472782071	201.360008430353	135.824520574227
MED25	99.2824152850072	261.653821192385	276.699609951994	174.252441615373
	342.829992044257	173.511692216696	232.911951245618	207.726011653345
	289.05213385509	139.814194128548	166.488589768213	129.538159906075
MED26	63.5693267269002	63.3667304749164	67.3469281984384	79.5838979704243
	81.4621222177298	62.0660509811111	71.0369238830779	68.0342444360948
	70.8606919488782	54.7827221235949	59.0537479001842	57.0524725494273
MED27	68.021673481871	79.1432909353319	55.1547682957918	72.8120269375546
	84.5572894783679	73.3270037834227	96.9476136220382	57.3837827230023
	75.6382797289563	53.9918882088235	63.7818442618767	66.0224755625662
MED28	147.033637977077	306.14500148663	262.277293680018	252.097980496533
	314.609371608151	216.699423864285	234.359144097839	217.065944053174
	312.40869171788	182.576662575358	227.535855856645	256.165801611585
MED29	113.051477801522	122.099297248392	126.420070148631	102.786429761295
	162.569762535436	170.829628173552	155.855834721836	254.756894822368
	131.068763088422	114.796237914478	133.401306624347	124.409631245033
MED30	218.132527712083	560.802447943839	157.750574478926	263.885462100853
	447.248719481853	332.230531176052	297.105654460146	132.117013391364
	299.74710723735	145.28255999556	167.25176386043	249.822387177805
MED31	37.1485601150873	39.5050383901884	33.1559412791294	38.745552403895
	39.2608760193011	36.2015763253919	37.3799542961839	36.43924066428
	37.10170285405	36.4651112441576	38.3684202018524	35.4484652445078
MED4	143.761359357965	232.320396482547	163.476051754305	154.019005732316
	154.945533851823	162.80817471208	184.087380444203	150.011814577972
	201.163076338483	122.504770242427	165.72797054597	244.707381127491
MED6	509.004054793277	325.676668250281	550.861615347663	561.509463439533
	580.27699437241	482.238595345574	562.258108316474	413.41645422004
	605.338871441599	389.026128346842	433.194113859912	373.914455300185

MED8	164.404486294867	101.572081177165	90.1696131791736	139.679585117348
	139.328628553223	124.998771394658	135.819510815042	147.961677716225
	142.492693744683	64.4953675557046	75.5799609581534	94.9207160628331
MED9	52.5792653122861	49.9547657591437	55.9459886217809	50.2163892855092
	47.4548471240051	60.2083550387718	56.6537562775715	47.3791873993182
	53.7442594289333	66.274247400793	66.9494774452406	62.3102413989199
MEF2A	54.5358897781765	69.7855392178808	62.6532574724345	87.6763065012524
	61.5236837309467	62.4450952595811	65.7873990226533	49.6203214143464
	60.4837400912239	45.3530683538086	50.8826620053386	60.3816817102326
MEF2B	43.844855336215	47.2055133646385	55.5567699051046	46.7577982595088
	45.1137938810047	42.2577689927563	39.6535880152834	43.6434576713809
	43.7630587657205	47.3791873993182	48.1352470945488	46.8129509799753
MEF2C	39.7576136507593	48.1627097465883	45.7968648044613	92.3405202477427
	38.3561682218911	80.099836448859	42.9803717121865	56.8094693588238
	39.0775870687758	65.5349012839562	73.3321469094819	56.4578213622965
MEF2D	124.866058211181	130.524308471577	128.327641457403	171.073367662623
	96.0418367475772	207.245428311682	84.1780237893807	106.140215438654
	72.9752827496503	185.579050480127	151.344720108793	144.711001798454
MEFV	39.266565827316	41.690833180291	41.554942319225	64.3746985855249
	38.8456942580061	35.6125439901743	39.7162631015511	40.8833572570383
	38.2874316439311	40.3458948319669	35.5395819665562	39.8497227447888
MEG3	335.818251279914	109.062415049404	86.9032093551446	150.709301569371
	199.732059204509	188.811171804746	44.3440839686558	109.137372445043
	47.8472928419101	104.068748231847	131.859371655356	87.7295604723036
MEGF10	47.9175508887533	42.2577689927563	43.0016969050339	
	44.0451487108213	45.4040191352687	38.5707420487455	44.2166118829877
	45.5842286511645	43.0930293831497	41.7932258301997	43.8002456102021
	42.0424641526302			
MEGF11	35.8208542506595	36.7976562409506	40.0998167098057	
	36.0481934423077	41.7929491793697	33.2552842693684	46.7100796279384
	36.5393857306744	36.5393857306744	38.8507804383261	38.956280281655
	44.9070250604284			
MEGF8	45.0283997415478	47.087835967892	41.9287023391451	37.0273924363983
	37.8679241954337	42.6575535390785	41.6466169548846	45.5842286511645
	40.0403898620771	44.8997235283254	43.0710577955487	44.4951343330035
MEGF9	44.1737502492846	47.1856919329105	40.4882741869718	49.6479308322777
	41.9397336249742	47.8636003588181	45.1017494688414	40.5158867964016
	51.5690261542089	47.3791873993182	49.1067959632109	45.2783024981315
MEI1	40.8681871019812	48.0080291106034	50.4463723277824	105.406282523992
	42.9775348174342	40.9043306643373	46.7100796279384	41.0920120134247
	43.9133744699066	40.8049408996274	42.2618615571566	41.6550823405646
MEIG1	37.2474303302343	39.8455060654531	38.4456289125816	39.066284740632
	38.3085139808968	37.1894304543751	42.4493032770053	35.3608605269276
	42.5864346233886	38.7008388965825	38.3166554965434	41.7072675309997
MEIS1	120.289145237975	104.492750153479	108.12482131423	90.2790229242453
	78.1275793755619	271.50380898418	68.5725871332774	91.9919654450652
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MEIS2	52.6960621424156	53.2173939357349	47.0362584198466	52.2089306840125
	60.4122350478242	110.837476359817	50.3519150282938	47.0940613507321
	76.301438841111	90.8188865732032	89.737418965763	71.9000032422349
MEIS3	62.2150049214174	45.4882438975269	38.6005272730664	45.2759158146116
	44.4031868028216	53.6562515174849	41.7614975630362	59.3923286524971
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MEIS3P1	96.0907205856398	134.646159826262	126.171040948196	
	68.6379135603075	129.538159906075	162.049698241573	126.500059295217
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MEMO1	99.8754776648876	92.0880591999243	112.328675926999	93.3216420803293
	126.088821850066	71.0197205018137	115.610095595509	154.111066539468
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MEN1	53.1309801459151	58.3853148450483	67.4984616497574	45.8844325913247
	95.9298109273155	50.3617784914188	79.8196996067124	56.5280894868341
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MEOX1	39.6279144647521	47.5934444802346	49.8344973836834	64.4512696384839
	43.7517118200398	59.0686629877982	43.0177448037924	51.3169658978959
	43.0930293831497	48.7414853386615	46.794716003113	49.2677835329543
MEOX2	44.436995101921	43.2649781354792	33.7737772393677	35.3829784221072
	42.269054475455	40.7616966228404	36.7356360093603	35.7973685350741
	37.7384958256497	42.2614524730856	40.6373400186325	43.6753843488695
MEP1A	43.9309845324767	46.8954576545929	36.178547300352	51.0175677516029
	47.4548471240051	36.2768299545794	49.8281348927244	41.3506832276112
	44.5303781239209	47.1001757441025	43.9450023643394	44.9070250604284
MEP1B	39.5676051939342	40.3384318592985	45.4865173433646	42.357910063876
	39.6535880152834	41.159706131351	33.8558232866797	36.0306975524309
	38.0213051227859	39.8873706855774	41.1638563416981	37.5556299264699
MEPCE	220.682149473323	260.062749979574	236.791729190996	266.178061771978
	341.397811775105	315.696895080135	237.237762964658	338.586852166449
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MEPE	44.0328992213727	41.8073910693411	48.7039705048129	39.5050383901884
	41.2740822675592	37.9951997351435	44.8643898647322	39.2672712041774
	40.2274522635576	36.8059561571675	40.0766543123257	41.3481355128089
MERTK	97.6205705034407	178.188675055821	109.832638804839	219.431561967403
	160.868571611805	145.676955166566	166.644251737703	125.573953188965
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MESDC1	64.7766649630041	85.1950626054282	48.1997158668729	
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MESDC2	41.6354649482853	38.4330755397458	41.3366779545815	
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	84.4230484528318	53.4466111440611	98.7446830481164	114.84900130932
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	43.0930293831497	45.7911932481722	38.4689132737495	36.7762265039864
MEST	38.7169375795196	46.2625470410195	51.6159542017038	41.3027031037343
	62.7743500747415	44.7058233759912	43.1696495767273	42.1887890806988
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METAP2 400.506633704584 504.281506941044 554.163106145921  
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METT10D 52.6960621424156 53.4735821194294 71.7336217321663  
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METTLL1 58.8856060454401 53.6895401581575 48.0191002461099  
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	63.8740412329753	59.2628513357357	59.6608518093582	64.2769859135548
MIB2	111.347228208501	169.391313189738	183.887843429281	111.153589230866
	149.173801572239	151.912182086236	165.029434090892	125.642081865992
	121.53258696581	149.330073823683	170.390108862804	117.732966326465
MICA	59.6008106247114	59.5534127075228	43.6670755115848	53.9517841438975
	59.9326265577462	62.1857038870283	52.8496345990125	46.2779564481158
	50.2223403889892	64.0162246399972	75.8056934060866	53.1182952086284
MICAL1	134.285947677624	169.603165827302	175.193752938517	
	345.36940514835	70.6903168772326	307.419724291399	144.593933058291
	706.914069768466	60.3977304934451	206.312848708143	240.6614822416
	135.718484174661			
MICAL2	58.0139597055449	51.1740855632044	50.0050760710506	
	55.4180794172794	49.5666074434383	50.5148383400703	42.8684958525042
	47.5950227477807	46.3203995372658	38.8507804383261	40.6373400186325
	48.4535991392809			
MICAL3	42.5193208629123	42.5269793679335	41.437237454134	
	44.0451487108213	43.2484996523549	39.2985791324641	43.8206425661746
	41.7419877611072	47.5564423692142	37.3179578037963	43.7585538437696
	43.7672102682067			
MICALCL	47.9175508887533	69.734208465775	83.3826639718546	
	59.8102324370568	54.9249759425252	42.0574848021044	54.9765783642973
	99.3448096967314	57.5883027758003	64.2174369755376	73.2234405348435
	62.6868461044048			
MICALL1	79.2665546280232	118.619819027443	110.112236384679	
	70.2541961995753	95.2833228196616	76.7063975550116	97.0155195562193
	79.6133633483649	107.087870999702	106.963092569134	105.71315237465
	70.9377012403023			
MICALL2	51.7607563002005	57.1863195337055	70.9377012403023	
	61.7502624458447	68.7159356692728	51.5522731200852	45.6706505553383
	57.7125861123012	62.9205616877344	67.0163226819964	61.8445915808329
	52.2832912331043			
MICB	127.694844372277	68.0388928513985	50.9933795450314	135.553887060537
	96.8490167966217	52.5330333302271	165.751590932267	79.1039287828151
	105.140085606412	51.2318935933116	61.6084234634424	51.3244198342335
MID1	115.052948380817	111.395325732621	123.039116845742	53.3094843669564
	102.655050997714	162.272853632419	146.355277438643	112.551747307723
	160.152738034528	127.1365842097	127.232160404726	154.509548705054
MID1IP1	105.686346729469	219.771890732457	294.048088688381	
	189.289063944393	180.916465721523	243.672418126374	260.062749979574

	355.319959025243	429.854222129819	154.891160328731	164.735191308776
	130.293915348934			
MID2	70.8674195845729	54.1773909134233	60.0219418084008	51.223859150798
	63.0842071602791	63.4610447573417	60.7992483126292	101.888001006345
	68.0295963383707	69.734208465775	66.2366101899356	76.9303701148105
MIDN	491.100053064936	532.581631305218	527.037018015766	396.355023788839
	500.168833003599	567.675954219815	397.850286751468	697.57030127315
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MIER1	105.828093778276	71.193768715137	78.8357122967692	89.4504034432321
	59.9876575158981	122.758873982957	102.962105111048	78.4815128101967
	91.4121563150184	118.600699776727	108.660169650259	136.541379502691
MIER2	72.2099571536717	76.3228890963999	63.5107036952143	51.3851157261451
	82.8232026162231	48.5835484742456	73.3042538589134	71.2867274976738
	68.2372031645261	81.6233038764401	92.5135737873857	50.8442982601142
MIER3	51.1740855632044	46.6996902348633	49.4573631027613	39.1706564265495
	52.0583273941813	52.2089306840125	42.1607322031054	42.5435283762933
	55.3122077514658	43.7303813515864	44.9713479185144	44.1452943804044
MIF	2588.47871581066	3465.3013599062	3202.8848520816	1769.18069954113
	2854.82112538867	1704.0522304387	5971.45293864208	1658.86829668934
	6606.35767508139	1421.44237064813	1497.73669971925	2036.72286752819
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	79.4528447794527	60.9710783023013	68.4323624797175	70.7238101239421
	62.5528124447176	62.9922928277769	50.5252048155459	59.501103909345
	59.987045425047			
MINA	47.6037279251423	51.0175677516029	50.8634043603791	46.2351155512713
	52.2973903538281	47.5733603903505	48.6395795163502	44.5658219748173
	50.7258407289028	47.9635720235482	44.7771939752086	45.4799270968969
MINK1	42.6575535390785	46.2286164776607	41.2679739649179	40.591923288644
	40.3452320167286	37.7000400506818	38.8417151851134	36.9976231206067
	37.4540772310118	39.6719190054379	38.956280281655	38.5921548841176
MINPPI	46.3390850717989	46.8954576545929	58.7382738968248	
	50.5310598656998	52.5645416722441	41.9543948167375	52.0942589368478
	58.4200819624972	57.1016072897358	50.6486940895674	58.2315917325629
	67.5047089908724			
MIOX	38.6454098044474	38.3322849790657	38.4043916290561	40.3180310664156
	43.7517118200398	38.9378717994178	39.5496902678788	36.0306975524309
	37.2810767789306	37.3179578037963	45.310660704531	40.6614700944853
MIP	40.148780650831	32.6416008433981	40.0998167098057	31.9427626516788
	38.8456942580061	30.5999544621105	32.1218888714537	39.7509165247419
	35.2143190355414	41.8613406887824	32.8881500803623	40.5703581862752
MIPEP	80.3730667493235	122.904323796484	89.5597629049747	78.0020909283414
	103.913834330352	86.6246917308185	94.1289383735162	94.1762630490912
	86.4498396868205	81.6233038764401	87.4850071876743	70.4262478188233
MIPOL1	40.8681871019812	48.9899488302637	46.8267540220952	
	38.8495095797881	43.1252272136667	49.4157684139858	43.6753843488695
	43.2551508830106	42.5406888281114	51.4454142248566	47.8284278211109
	46.2625470410195			
MIS12	151.175959542368	128.005663945917	119.545018066492	126.336900591139
	116.540209248478	121.236881661832	132.689951767479	130.455608913636
	94.7110944331075	127.685709088018	121.259683158193	169.344094528032
MIST	46.3390850717989	43.1805016690297	44.696023817801	65.8926843080114
	45.9104478407175	42.357910063876	39.7576136507593	43.3262148375525
	42.357910063876	45.0155543555707	41.4508241771315	43.1805016690297

MITD1	194.644164648125	201.800572658224	191.298525555624	213.204385896543
	210.133037772969	180.916465721523	153.177725521199	188.943404504867
	193.15756263121	149.812291220906	142.812241748319	212.187855950414
MITF	47.691150920844	42.0418171513817	48.8100349749783	45.9667142574745
	44.9936360641969	59.4949177415847	43.8206425661746	43.6434576713809
	49.2267897689452	40.0599807618105	48.8744644207821	51.3244198342335
MIXL1	40.148780650831	42.9358255168086	39.8299340037009	39.7411455670172
	36.2048942610546	43.0860383229288	40.3302268293707	32.4466419672036
	37.5469247328848	38.8507804383261	36.8282383070068	36.5474283500601
MIZF	80.2335594838879	65.9476039189301	61.356483470053	66.9218519793499
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	68.9038222450855	80.5388767883646	74.5886835786452	72.1090339831747
MKI67	56.8168526942685	52.502055890816	50.9010149857308	47.6687908290818
	51.6869155634183	41.2567470068038	69.779139490544	53.5271601314404
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MKI67IP	177.912351477808	178.904972763325	164.547318765586	
	148.529482776555	436.35723605534	232.879882989322	172.748740911831
	166.431392410887	175.441884261362	135.007055711266	166.608353896248
	244.529657015078			
MKKS	83.4465817617201	95.8734933265537	92.2447473381285	102.655050997714
	103.447730395424	125.642081865992	145.676955166566	76.2258667419953
	85.4420599474339	108.57858133896	117.149897485203	131.859371655356
MKL1	127.072685504735	108.881703882906	89.1115172961797	180.756651647731
	93.3752733525183	107.309776354951	95.6697427870979	102.085154509866
	122.405413080836	169.391313189738	155.795095438102	115.143810463938
MKL2	57.1046180136491	54.2445399731644	73.2144205844199	58.0218262176065
	53.1884505015411	66.295597720304	50.3519150282938	68.3372228877569
	74.6955454743937	97.7620313090597	74.5654028199926	76.7791768896805
MKLN1	344.578407722941	326.303950252592	366.420967163945	355.568857981155
	301.525915314179	460.340300658834	219.34503297115	254.159017331462
	457.202737754842	658.704350372292	560.413725186282	623.574706535278
MKNK1	154.730266766226	135.043488274939	144.281881262975	197.813848976726
	98.1598330893405	144.227861902786	106.035435807364	96.4072955983042
	115.683762821211	128.070047614488	115.204421753719	112.021971795593
MKNK2	239.385229462309	585.771656887036	680.279119780451	285.626835802986
	761.341795853104	463.022816882856	334.726233105118	547.072513229674
	997.492549573274	355.351648424266	365.517719684028	375.095491465679
MKRN1	1323.73429724066	1337.53997230271	1007.03747721563	792.880882528835
	999.862452730252	807.620534408416	1020.75813028358	1157.65264077595
	1390.12380748446	1756.86714809925	1204.34388579291	1119.11683235081
MKRN2	204.659954879641	329.72032366183	289.410651581802	231.472806936915
	410.623529765253	356.628599887098	335.943994595615	279.001128345613
	279.782392390288	223.749512763927	211.829374574045	235.420582508332
MKRN3	48.0201377454632	49.5443425465542	44.7829632472754	40.4359177791566
	50.8875036861067	48.7781962164988	60.3928833351886	41.9315419791594
	49.1940901905636	43.9450023643394	38.956280281655	45.6692241948108
MKS1	54.5358897781765	60.5571721986885	71.1521292570086	46.7577982595088
	67.3568864741196	51.9421032049606	66.6894494536346	69.4677195088043
	70.178974380507	73.9732553364283	71.5249259772583	54.1941919612524
MKX	44.0328992213727	41.9894412416874	38.6727842796202	42.8235313007746
	39.6535880152834	159.22638189198	41.1507980856436	45.5581356216957
	47.7086093893038	111.248876636045	84.2960453806012	163.742560819575

MLANA	34.6977013306396	36.5219488315447	35.7105247506212	34.4382958501338
	35.0181575202066	34.6977013306396	35.0305278582179	32.6039814489621
	32.396635964353	38.6454098044474	34.064698871541	35.9604262434141
MLC1	39.512606833112	39.9304283729853	39.0516158090705	43.2504382247503
	41.1575777497576	37.6491835236783	37.9946685306274	37.7136011474903
	39.5431003985578	37.4642807402741	39.1767390963391	41.9708115340487
MLF1	42.7150227340364	47.765848710116	41.9666541498638	42.0102671859606
	43.4544762830742	48.1591264215184	48.4859552186772	53.838484549134
	43.6670755115848	38.8507804383261	42.357910063876	48.5123041297835
MLF1IP	42.5193208629123	52.5380506348717	47.9035532886869	
	46.3203995372658	43.4544762830742	34.6977013306396	54.339958888486
	51.6660481331154	61.0094935318105	43.844855336215	38.2795150354677
	41.6550823405646			
MLF2	499.744856832174	377.847116683974	445.364320342291	302.012602514613
	368.913147706435	371.709014310561	436.497820504526	422.58866112053
	520.415257194417	489.983164420779	377.221676837377	344.657779779036
MLH1	59.046385957117	89.8234189405239	96.213791081731	82.2766822827861
	191.454637685756	126.017900743748	104.341160312305	54.2877981508636
	99.7668527666705	84.5913809068614	98.6706537801886	92.8644908993284
MLH3	53.1309801459151	46.6314009405034	47.8263530599296	48.4916117779992
	49.9493230064613	60.065511140146	48.1747307200218	45.3389970694851
	49.7942306972014	55.1089864632456	50.6726688944968	51.6660481331154
MLKL	66.3845271542459	94.7498756176388	123.817018264773	221.972553229362
	78.9701459806641	88.6287852712744	78.8250642061439	83.0959169307948
	64.1021292413458	60.8250302910721	57.115361349315	86.2488614616838
MLL	75.9909523932333	93.9708162269401	72.2797007105795	58.7338159410728
	69.1862663389904	117.408885431274	74.416117986276	68.4659783447092
	103.139459009593	102.490465676619	93.6717518147993	96.0539709962851
MLL2	34.1336988442837	35.5310164682026	42.7303139017786	35.6027791404152
	42.1650127805175	34.0045980663271	38.8417151851134	35.6825474397235
	41.1742244762318	32.5178504369282	39.9070785037411	44.4475838947656
MLL3	57.2529265661628	65.854213724711	63.8740412329753	73.4788569136441
	65.7587943905649	81.9218437790485	58.1466894651854	50.4397478643191
	73.9986015964321	62.056770439781	64.1021292413458	65.1911280716126
MLL4	132.838429478396	149.494335028498	109.029196594263	73.7124988616836
	166.168385855406	100.423344358771	148.570371099987	148.130140385248
	151.575914903116	103.607345835114	121.195506364658	83.6255924297514
MLL5	69.8231400816467	61.0468099710416	69.2163524570019	73.2364546716324
	55.6069214673486	61.9787117490846	62.7377155597666	63.9371474698484
	80.5437011468815	81.2269477373795	89.2913927776683	76.9603875266956
MLLT1	47.1962846565261	44.2630383225933	42.4580504587581	43.4410741327254
	51.4527545197672	42.6575535390785	41.9393838138203	41.0381860307445
	38.9006788676407	46.7646877499666	46.8954576545929	37.6557714476853
MLLT10	73.967017874248	92.5903918620825	97.7127741001281	
	87.3759678085472	97.2803806915572	116.287075019475	83.2925226467532
	63.7491070301764	104.964345794911	116.184007615285	142.880684604126
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MLLT11	107.836867810972	132.946528291039	113.82565808481	
	112.100074154279	219.186221756668	208.457587834567	198.497745548245
	232.815747390118	104.220256076979	85.6763929745253	68.8058577447202
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	40.9950639693255	38.7340969861754	41.1507980856436	44.293922970134
	44.5303781239209	38.6454098044474	40.547835538778	34.806104801006

MLLT4	44.380620848621	43.8495248991589	43.8495248991589	46.1673159982664
	43.4544762830742	46.7386599624801	45.8311458106942	46.4672637826582
	49.1940901905636	50.6486940895674	44.8872784170036	43.6753843488695
MLLT6	441.872082665398	241.706783147271	336.390195295291	264.548218296413
	315.382114449988	249.148159759128	235.420582508332	413.918050849658
	173.343091136741	356.133736281036	351.188432232165	314.281125546552
MLN	37.5887129572848	41.0678614026819	39.991353369336	33.5578650644246
	39.5595233162192	34.3887641786747	36.7892997857376	37.9273653326866
	41.0476065156912	39.9948390976317	38.1253290586431	39.6833800000587
MLNR	37.6397652536077	36.89524015739	36.2683886571585	44.6905691366696
	37.956732373465	39.4953494583071	36.08956004634	39.1652965788406
	36.4476883897928	36.3612409063792	39.3667161654772	38.8495095797881
MLPH	1016.13142851085	362.123479430887	883.06773454117	179.47783529
	53.0419743379342	183.77850568836	290.316757790733	546.80979198725
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MLSTD1	81.1350396749303	132.188774889597	56.4779645313958	
	92.6230008876347	71.4183281327686	58.9676332048764	151.451107406752
	103.856444152519	97.0348634204639	52.3304586399695	51.7538628098347
	49.3984571719129			
MLX	62.7053729334675	76.3583555666815	70.9377012403023	72.9752827496503
	80.0312512203372	67.5255471827784	68.1833361806128	47.1403336158803
	71.0211264570699	60.1912192309911	53.3078448066074	64.1607001437806
MLXIP	46.8141313516997	41.0678614026819	40.301483914446	42.4580504587581
	38.745552403895	46.0364000143537	42.8684958525042	40.4359177791566
	49.8304479381623	42.9866214102525	51.7538628098347	42.8864415494484
MLXIPL	45.7017023767682	39.6995529770239	39.5118967430322	
	41.5464765641928	45.402658694824	44.2607789091176	41.1886975241176
	57.5640428227111	72.5993974280876	44.3303034026662	46.3635803515159
	44.2527566343661			
MLYCD	62.4317959077388	72.93977835851	70.8606919488782	53.8086134112366
	87.2282539094452	64.0985088513857	68.4380822448123	43.5544347011646
	70.178974380507	64.8549209064366	88.4594321382477	59.2035499250243
MMAA	45.9090659324223	46.0023068797812	42.640829914102	41.5464765641928
	39.7568367479301	39.3841861812262	37.2892641289258	41.4508241771315
	43.1805016690297	38.0078357808393	42.2618615571566	49.9692385479389
MMAB	53.3059058105836	52.0268699306396	53.0290605707162	63.3006977162657
	47.8075998240396	48.4758590019384	48.260931742163	48.7039705048129
	63.8357465390633	59.8130420783374	56.0477607422828	52.3896785600751
MMACHC	77.0301627655229	69.2082505043031	86.9924799927707	
	66.9218519793499	237.864776225441	75.7502062965698	85.0342118119783
	98.9657264176664	142.945182805248	60.8730416435467	84.9601800557888
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MMD	353.338686666875	93.2630594602634	63.7744603935682	181.200738629391
	117.165519915808	234.495626550751	125.752132815786	276.550265506988
	53.9287524861617	73.8313212063649	104.873452487222	174.985336606027
MMD2	38.5648843914189	38.9338521051669	43.6670755115848	38.4208429103799
	37.8679241954337	34.2773859804062	39.4600924554505	41.0381860307445
	36.0741672064298	35.8304004211528	36.0481934423077	39.8497227447888
MME	61.7053174323665	40.6663433492193	39.5934446973527	78.3962885374388
	52.8928296360463	43.7232076118476	71.7408778060956	44.4455094736026
	63.0505463098231	44.081163104701	54.4140381300469	42.1537476443423
MMEL1	60.8357760968871	59.1938299291358	57.974826209076	40.4967168818294
	89.3168921945222	43.2312848495114	60.581035231763	81.2228688683149
	159.618353114269	55.9283039581662	54.1618170692792	56.4873776344986

MMP1	51.1055541075029	78.258486366912	63.9148277361329	516.704027135707
	43.1252272136667	39.9397419279057	44.9863726205428	65.5820437889838
	53.7442594289333	40.8970401536578	45.7328341667151	36.449101775775
MMP10	46.8141313516997	264.263104842911	89.9650488563894	384.280434953152
	73.3533274030352	47.2927436772465	44.2166118829877	115.221134337342
	70.2541961995753	38.528621456378	41.8168470823451	40.3691324547049
MMP11	6258.22561934986	166.535245140901	169.723009455614	100.774098314706
	106.804269453898	58.7404123614695	134.024691118762	181.093943398293
	92.261357059727	51.4454142248566	66.1229691315616	48.1627097465883
MMP12	320.966569449558	205.24499293304	106.590506599473	1301.07436212673
	100.271925566074	80.257554904218	197.325473090277	56.6910078150745
	148.422344459694	40.7620472083159	50.8826620053386	92.0002934041687
MMP13	52.7570461169969	43.7644428186265	39.9101908547397	44.550322123994
	46.3150221024046	34.1806289878747	45.8980298854198	48.4670130605028
	71.0820747228972	37.6383530120621	41.5421429082231	36.8690774823319
MMP14	119.714551585774	68.1040271620925	58.5212649095879	109.726577835621
	50.7615314686244	45.4882438975269	49.1067959632109	62.6984594468418
	55.8510296341925	71.1607965028029	67.5417980425932	56.361708620372
MMP15	117.439175394651	68.6804583979297	67.9850517608624	43.6726153508978
	53.4109882045447	48.3686935595826	100.650129064849	83.1702007661831
	88.8772406115484	73.0394191668858	61.3529667465225	61.2108152457954
MMP16	38.7169375795196	36.4505152165662	38.7745734037492	38.7864161493321
	40.3124262005404	39.4953494583071	39.5032015229125	35.8359251163299
	39.3750969348308	37.2089297656361	37.6934694587739	40.1700117452801
MMP17	39.4710743516517	43.2649781354792	39.3344387353654	43.1131704517186
	39.2608760193011	44.5973052166071	42.1607322031054	42.0778399888414
	42.1191165911658	45.4953384153622	41.4784106456949	40.4310982248029
MMP19	45.8574226904273	46.2286164776607	51.0175677516029	68.5174271063894
	49.2267897689452	48.6621527194963	43.0269218496197	44.4031868028216
	41.4636047919453	43.6670755115848	43.3085358214154	45.5800840647989
MMP2	135.323750661937	55.5294887653184	61.1076362129586	82.7394574977114
	71.7263663921367	100.017263238916	46.8613212048981	64.3284163241986
	49.9162522057712	71.3900857589616	63.9029785089421	76.0240426902567
MMP20	39.6609238036815	39.0894172982439	38.3166554965434	40.1804147506786
	37.3785704939904	46.1974343793412	38.1793598983615	37.7612949798895
	44.0202052410607	39.1621898366355	43.4709415392696	40.0557788909923
MMP21	43.3098985178373	39.2907645923217	39.5954353681031	39.6705473876526
	42.4864576619427	41.0909708790194	44.5390641547628	38.079222289614
	40.9901805728485	43.7303813515864	41.6657053704762	40.9149601380325
MMP23A	65.8028755495823	52.9875116869966	42.9544982810566	
	51.4573915545728	55.6991707857987	80.5478617156852	42.357910063876
	42.9963672633493	43.5000769365019	67.7626103902954	56.233217375698
	53.0216110762751			
MMP23B	148.016994658777	80.7198077526005	62.6885730386156	
	148.529482776555	103.869437847206	189.650905999631	59.7444979429174
	94.8884063433735	53.5473283956867	152.792457231813	126.079949368634
	84.6435656850129			
MMP24	41.3387790895716	51.2405397507224	39.7411455670172	40.7481155008596
	41.467005949568	39.3841861812262	42.9803717121865	40.047314525032
	42.992884918158	44.8997235283254	41.0050831223107	40.2669497398702
MMP25	44.1737502492846	64.447308523693	49.6978906361694	224.665128374218
	50.1185085888209	68.0501900087917	80.0733119200914	49.8344973836834
	43.6039443285137	46.1390887492649	45.1778228816327	43.5738557773903

MMP26	42.3433931248155	43.683792219729	45.6989664108554	44.265834798964
	38.3561682218911	39.132725377815	43.9450023643394	39.2672712041774
	44.5303781239209	42.3606390470387	46.6442692119997	40.7704587752083
MMP27	36.9060997041453	38.6414316877471	43.0016969050339	45.8844325913247
	40.3452320167286	48.0350549043063	40.9157352260901	41.1575777497576
	45.5779686360641	40.2112371512838	38.6662194645633	47.6938628797168
MMP28	46.5549623118323	120.34542294172	445.875994521817	45.2806199505029
	132.036058401203	93.9805435116156	51.9819543312733	62.5528124447176
	359.465715235071	146.594288395595	220.167309646966	243.672418126374
MMP3	76.6868184563568	46.3635803515159	47.0940613507321	275.846698617064
	59.3611824459962	73.3506594385504	70.7238101239421	227.474113475825
	66.7008819035152	50.6486940895674	44.2925355984056	217.322595454018
MMP7	635.050535522135	65.5730163728961	60.3155766445629	361.57814355509
	76.1595226738812	48.1997158668729	975.544591158047	171.33368481035
	129.675613712326	43.4544762830742	50.4009921377716	81.066448172567
MMP8	41.7397731376692	38.1312950900467	40.301483914446	43.3078542962968
	34.7018263647985	40.650742261428	38.0598374201407	37.6557714476853
	39.5806465938526	37.3179578037963	38.5668610487033	41.4508241771315
MMP9	759.94822128584	547.442608452594	339.262360833465	4048.33132153903
	78.4590546118913	167.702870734995	406.104588997462	122.621100838222
	54.998510746958	39.3698811593364	39.2542963855807	46.8129509799753
MMPL1	46.8141313516997	42.6939394537076	44.3344900481112	44.0451487108213
	49.7235523248653	41.554942319225	43.0930293831497	41.6466169548846
	45.2897806651929	45.1569741609597	45.8180710486329	42.0424641526302
MMRN1	43.3638918705225	49.0697565324841	53.8724557170772	71.7167037224069
	41.0885562160946	271.104193102849	50.0088611244948	40.2382908228517
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MMRN2	42.6036491382658	47.4740726032707	39.0775870687758	47.481302504066
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MN1	86.9816932158186	51.2776048338	57.165971310746	65.2001674269291
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MNAT1	45.8108990837624	47.6914221838216	53.6837370963602	39.2780515621926
	49.5666074434383	50.9724155054821	43.4544762830742	50.1833483241864
	58.3564461855595	52.5522545249206	55.9604109457703	59.3709786862962
MND1	52.4179224871914	54.437526296816	50.0526763693329	49.7350276169552
	65.3585701203568	43.8308097066396	61.0468099710416	64.6945454069792
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MNDA	60.4593810615882	70.8546350449171	63.1450855271137	563.065549077627
	51.6869155634183	146.133951379664	149.312893905408	58.5406981871153
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MON1A	54.5358897781765	65.6721629145797	60.1874689914535	59.987045425047
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MORF4	39.9697332660833	34.0382693188794	40.6737160001291	39.7411455670172
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	40.4639532172338	37.9951997351435	39.6535880152834	49.3880946790306
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MORN2	111.954989477689	77.5737637002275	110.941686767697	89.6115806694241
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MORN3	45.1912496459517	42.8542642792862	40.1985790927248	41.4273122914951
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MORN4	45.0985088502363	48.8584917918986	57.0427273538849	41.0726336841311
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MORN5	42.442231667357	35.4484652445078	39.8299340037009	43.6726153508978
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MOS	42.6036491382658	43.0971787292711	35.7105247506212	39.2780515621926
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MTMR2	57.2008272301399	64.7650773032999	59.4431489877328	59.897987870592
	65.9098543816057	67.4256666294142	87.3213916666808	60.6706478075023
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MTMR3	107.034189847828	98.2280780221631	87.8505898087072	129.005213737493
	79.7102196041395	75.6382797289563	115.643361390258	127.345094323724
	112.261145599693	132.555169949054	112.211717641877	116.264725467875
MTMR4	153.61084474789	119.362992523422	145.711534348895	126.485649460666
	172.451522479253	133.514641336669	150.242221910229	205.24499293304
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MTMR6	69.7442393277127	76.3228890963999	77.9085946827079	139.385367339095
	75.3580625318157	103.955842514553	93.3897477314201	78.1448136847078
	80.8728961146267	118.726647822102	102.610376474754	124.628895737993
MTMR7	38.385865183581	39.8695929627783	33.553634633839	39.9697332660833
	40.148780650831	37.1317006162938	38.7337086062875	47.8947595316832
	37.10170285405	36.0481934423077	43.0971787292711	37.4554876386402
MTMR8	38.3418933808844	39.4537536502114	40.0557788909923	39.3455642782085
	36.8442943492616	40.7616966228404	40.0052661202207	38.956280281655
	37.241386734757	39.3999056968598	39.153226699662	38.6454098044474
MTMR9	111.397578350396	106.443777149496	131.413578749264	146.719419166639
	79.5175547131776	190.570409327756	72.8653205184014	78.1448136847078
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MTNR1A	41.2424637338424	37.6383530120621	43.7630587657205	
	48.665578118898	43.1252272136667	50.7516773099639	48.9826868640753
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MTNR1B	40.2543341073001	39.7835513496873	37.7384958256497	
	43.3078542962968	40.8873907150245	34.9849896310235	46.5650556481721
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MTO1	75.5751205142867	96.038271786159	100.616027485975	97.5849495690144
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	108.512469038407	54.2503023961401	264.451310132096	156.08027400493
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	76.7820250461545	85.1544284060549	71.3527183280827	80.1144023887293
	54.2825877218965	93.2226507128199	79.8701900696361	106.020559220488
MTRF1	50.8388984085636	52.3187919317561	53.4088637045445	43.5627649099623
	48.0234896130991	39.6251842352088	42.7431359850339	42.0494116081998
	54.7033747046992	51.1169368198437	52.3187919317561	43.2776458914333
MTRF1L	142.03031230486	130.455608913636	124.890309370032	
	150.801729138762	149.24022100428	182.757684959879	127.148417780972
	120.850874262069	92.8206287414481	152.467040827584	137.395516155158
	150.31039735991			
MTRR	90.1056480599534	75.9099205260748	69.11736279512	88.5907320965949
	58.8281931439093	115.321592104747	69.779139490544	71.3868929454853
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MTSS1	160.777879976503	299.428590398636	325.909358171616	140.41738844565
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MTUS1	49.6798204496926	46.1215010989701	66.4079972657486	45.3914421744692
	54.2834600746761	77.1900613562529	46.4992822713138	44.293922970134
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MTX1	244.678323059428	137.843308428621	201.941251308732	187.982920458868
	287.932410610182	140.393549614927	265.320447667174	217.189489936251
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MTX2	137.016387648703	212.062417120966	236.374695859748	124.051109959228
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MTX3	82.4263339218052	87.4623442823265	98.4136818894883	83.2925226467532
	99.1438953564062	105.945216149549	79.1432909353319	71.2867274976738
	118.410983614453	143.443713592074	131.555833438345	128.776189744323
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	41.6806984441849	46.3203995372658	47.4439407315335	43.7731874801003
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MUC13	43.0001432913058	29.5408011993809	34.6977013306396	43.8002456102021
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MUC15	39.5676051939342	38.8336427948187	37.3687900733549	34.4382958501338
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MUC16	426.622204035624	49.5443425465542	40.6737160001291	46.1673159982664
	42.1650127805175	38.4330755397458	42.629412460409	40.3357777530419
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MUC17	38.5007204246293	38.8336427948187	42.157627240486	38.8495095797881
	37.8679241954337	42.9695585740813	37.4772922422734	42.8482181313226
	43.4656637536244	40.8970401536578	45.0589947942306	36.9976231206067
MUC2	40.7609952437622	86.9709077763908	49.7350276169552	32.4383992781552
	50.5110359971301	40.650742261428	31.5556621809114	39.9576138799997
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	137.551493752877	56.0477607422828	294.443061798191	188.943404504867
	547.729200972776	168.7696164772	126.079949368634	144.250839367023
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	44.7829632472754	44.9370339275041	43.5627649099623	43.9366081640576
	45.7873395324682	41.4659679379482	44.7926323492519	42.6278608611758
MUC4	48.7078937513299	42.0443173541853	39.991353369336	39.243700710881
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MUC6	43.1805016690297	46.6619317885811	46.5113110023498	43.2657550877972
	43.7858612339862	41.2202950824622	44.5368031163323	44.1554086873888
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MUC7	36.4564050256915	32.4552405279874	36.4564050256915	34.3595588146954
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	46.581796165231	40.2112371512838	37.8372168909583	41.3481355128089
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	43.3078542962968	37.293529903672	40.4753617660107	42.1157692936428

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MURC	58.9201382292404	60.7495043977707	61.5824518349507	55.6481366056639
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	54.113533179847	67.1278109419819	58.7389869173495	53.0446815750355
MUS81	92.843017373656	109.654559065946	93.310557793228	91.1834104205004
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MUSTN1	44.7915315085948	54.6089451252049	46.8267540220952	
	54.1240583139871	53.5594683028749	93.5045354990096	51.1541843174981
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	87.8967913380047	72.3070624532091	119.124583755587	98.3733183587283
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	193.380035526465	82.6036671634626	100.45351084408	89.737418965763
MVK	76.1417635449123	73.3950348855139	74.0913177754682	65.7321440516177
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MVP	490.652353306749	354.015808474189	646.013007560085	488.649780652311
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MX1	541.105845300009	2331.12401106076	2934.35616793443	1282.9181829891
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MXD1	170.150808455621	155.492099076744	256.302432791187	810.201903561366
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MXD3	67.2437599548936	61.4800543360853	89.4111455826308	68.1992221684165
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MXD4	393.648308810931	794.806085783439	583.915973546284	370.330147221688
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MXRA5	2257.78227736778	185.079035617027	388.920739791844	612.014486689487
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MXRA7 118.980144905852 58.6593748588955 57.3837827230023 64.3117498829777  
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	45.8546719310325			
MYCL1	57.0575084219334	44.069462769215	37.9482157381008	38.2516470858206
	60.2417579280647	42.4263859458031	51.0572809855463	53.6210959113222
	47.0027453663546	39.8873706855774	48.9259041798949	44.416113301755
MYCN	55.4553297468768	81.2992152187529	67.4811066936124	41.4273122914951
	60.7495043977707	45.6706505553383	903.756866967447	385.512974999198
	46.824299585607	68.9115937148858	59.8070012006708	54.1440452292081
MYCT1	47.3791873993182	44.4639405506967	54.8133029594319	43.1275490164761
	43.5836473788312	53.1052228246467	43.3832826368789	43.844855336215
	42.38204124321	45.0864985243943	45.1432412071268	46.8840006833906
MYD88	150.262748333939	263.44529683749	203.619260934048	449.427251674566
	771.961354075412	217.658421476562	234.615033303459	181.705809767061
	241.384699095468	163.692769575522	130.703767898434	178.525751043592
MYEF2	37.2474303302343	34.8137085420423	34.1806289878747	38.3166554965434
	43.5544347011646	35.2067831864574	39.8695929627783	34.3865306339645
	32.8704945047196	35.7202909649682	39.0550139257658	37.1747156131306
MYEOV	58.1868359012515	43.7644428186265	43.3085358214154	45.4634652319753
	45.6895223823001	39.4953494583071	49.540449125788	49.2901038327894
	168.737634511775	40.3235655331796	36.0481934423077	40.8681871019812
MYEOV2	44.9896851005259	44.5152708955623	42.3536549114165	
	43.3078542962968	40.148780650831	42.157627240486	37.0564573649223
	36.6452480995946	43.5669306063196	41.3321861371202	44.0409178714232
	42.8864415494484			
MYF5	40.308802735799	43.6587492470348	41.8389336728199	40.646702696033
	42.1386542162789	37.8102105794655	38.2280071951674	42.6022652963326
	41.8197029429821	39.1177164316495	40.8681871019812	43.7672102682067
MYF6	39.9697332660833	38.1312950900467	42.0621425894624	44.0451487108213
	40.7273974755431	39.1664256481434	39.8299340037009	39.3709357615493
	39.853866204927	46.8954576545929	39.9586075662602	41.3481355128089
MYH1	41.5421429082231	38.2263227947189	38.7745734037492	41.2445895434274
	39.3667161654772	43.7078399718247	42.5660695551615	40.4359177791566
	39.2809305246091	42.8414096678708	38.0365987358005	46.4136802014079
MYH10	1073.84987604662	614.603743904512	469.78210773245	270.922452389109
	657.310970474676	641.103199748891	1465.08435775014	455.774407260725
	246.351606918353	586.508419046212	459.92905629125	452.139416552986
MYH11	553.707482409148	730.168814097451	480.660242705293	536.290060852815
	393.001025840896	10910.7672404363	46.3057385979341	1019.67015337432
	70.7087323885819	11795.0477101407	11795.0477101407	10483.5643876539
MYH13	41.3387790895716	36.89524015739	36.4564050256915	37.5382094267692
	34.5301949364147	44.7804080899431	38.6243997507646	34.4896350146096
	44.4395580493118	37.6383530120621	38.6662194645633	38.5279745308203
MYH14	54.8845696432531	66.4626619269287	50.0050760710506	38.6414316877471
	46.8086806989607	40.3357777530419	75.0092868910417	83.8637731385607
	62.7605715573218	95.5156363110528	86.0100701849272	64.9418945936106
MYH15	39.4710743516517	46.6996902348633	34.1806289878747	46.614092935749
	39.1650142708257	39.2985791324641	37.4772922422734	41.0381860307445
	38.7298222155532	42.5664883002833	47.6884372645373	43.9541718254769
MYH16	44.1294459089314	39.8695929627783	41.4613628725541	45.8145523469421
	43.0723817756832	45.7700386532539	42.5660695551615	41.7877325563821
	41.1349567921107	43.2988017098387	42.2510526338368	42.934549734195
MYH2	36.1232327599945	39.9697332660833	35.7105247506212	39.6292788039793
	37.1565984182084	42.157627240486	41.9393838138203	37.4484310268909
	35.4332080966594	48.4890615340603	36.5359455830388	194.012210675469

MYH3	48.2910530887214	47.4076235350059	49.6347864008749	39.853175885492
	47.3172462673426	118.745729915256	44.8643898647322	57.037639245179
	45.6582729799009	143.278668481091	144.227861902786	536.290060852815
MYH4	52.109723558511	62.4530276414691	92.3034609409756	59.8102324370568
	41.5668884168669	50.9724155054821	56.3376046940285	40.5158867964016
	46.2027193115397	66.8026147385682	52.2229654768933	68.4278345554565
MYH6	44.8914371498528	39.6995529770239	42.9104454767916	52.6947911480086
	41.2740822675592	39.8455060654531	49.8281348927244	47.2009420656854
	44.2607789091176	40.8970401536578	41.1638563416981	41.4508241771315
MYH7	42.442231667357	46.8954576545929	43.0016969050339	46.3203995372658
	42.1650127805175	39.4953494583071	45.3597029614942	46.7980335276155
	41.7627910693483	53.5498255316009	45.1432412071268	43.3744503319109
MYH7B	39.266565827316	42.6022652963326	38.9790184198145	36.5393857306744
	41.467005949568	34.9849896310235	46.0228732507872	41.0381860307445
	41.9635525160083	41.7405682794166	37.5583886316038	37.9607839934735
MYH8	39.266565827316	41.8073910693411	43.5710871617107	40.4359177791566
	40.8873907150245	40.244271403831	42.8684958525042	38.4540849632254
	36.7267557061938	38.1042454705119	42.2618615571566	42.0424641526302
MYH9	2830.73694055758	2009.75680599899	1876.51621222292	1656.16581692717
	1143.51046585232	1343.66876893729	2054.64068255575	2559.659041589
	1445.73674428909	1842.15643221012	2039.89728774097	1621.89443989657
MYL1	38.6454098044474	44.9877531846933	46.1653991089885	40.7481155008596
	41.0608773166058	45.996661384888	40.6301588195752	40.3730429236163
	41.2397693523949	40.7589111641166	43.1931731665131	38.5814307557439
MYL2	37.7726313569706	48.2521192538861	37.9003288112261	43.4877740913713
	39.8114752099365	42.0016830644258	41.8799523546812	44.8727287473605
	48.2123120250343	44.7520317855773	41.2267153672559	42.7275315121163
MYL3	41.4508241771315	38.6414316877471	42.0621425894624	36.6501141438378
	38.4540849632254	41.4508241771315	39.7576136507593	40.047314525032
	39.6609238036815	43.4885245598939	49.319499137678	47.6040671292013
MYL4	45.4507786740825	37.4772922422734	45.310660704531	44.7401523707775
	45.5809132232681	37.7427315853995	40.8681871019812	39.7509165247419
	42.7671420440641	43.0177448037924	44.6286581923295	36.1190722948669
MYL5	98.2512963929558	197.13726107504	135.706144105357	144.427680369554
	104.914715637173	144.863548409034	189.055029582117	165.322633260592
	110.379403044901	192.171116215791	188.336316985251	125.868437542325
MYL6	8703.02873382565	5112.4354472796	5895.03230740197	9709.60940482862
	3690.00752647453	12456.731302703	8050.256095383	10910.7672404363
	6309.53691418065	10483.5643876539	9582.11974031559	10910.7672404363
MYL6B	450.759762047652	216.404466544919	312.19993077414	281.527450183603
	360.047596829923	529.025813945023	619.114937854476	364.337811621248
	460.865101118125	353.598144765197	367.931222555457	334.90764380842
MYL7	45.1912496459517	44.4411734611229	39.0775870687758	36.7892997857376
	41.5668884168669	39.8455060654531	43.0930293831497	40.6171774724171
	34.7722083264266	40.8049408996274	42.5426057453993	47.3992733452821
MYL9	190.403032965372	102.962105111048	95.6731932757489	140.35042464015
	91.4121563150184	1580.58484708669	51.3064929551674	86.6586095017998
	54.4912806027381	1323.73429724066	1217.21440297138	1027.59400018637
MYLC2PL	39.3709357615493	42.3550738181144	39.2707964550441	
	36.9912468186322	38.2496050953547	36.0306975524309	41.706879587091
	39.0620487644635	44.7058233759912	43.2988017098387	44.7926323492519
	40.6614700944853			

MYLIP	255.986778613019	304.718140992378	259.033660186329	204.774090707986
	574.467486140819	389.131545459708	216.782658096982	766.647626178442
	300.057362423939	196.200780398883	286.045253557021	185.843333258735
MYLK	177.29096218424	79.1039287828151	63.3936612506971	88.0827215704624
	66.0411740221276	1012.91803181784	40.3302268293707	86.8463723709337
	42.9454180086838	359.465715235071	349.371668774717	462.105603187328
MYLK2	36.6480005877129	44.2105195734073	51.0539624358342	55.4180794172794
	58.8961770381033	40.650742261428	46.1634822993009	41.7419877611072
	37.9273653326866	43.2988017098387	44.1148826235374	33.6902293666089
MYLK3	37.7384958256497	47.8400694856726	38.7745734037492	36.5393857306744
	37.1565984182084	35.0970060242246	44.7255207589606	39.5466975353131
	40.9901805728485	38.957687788868	40.4504608195666	37.5556299264699
MYLPF	36.2496364442264	39.6123051184545	37.4642807402741	39.1706564265495
	41.6806984441849	41.0582900711341	41.5817737564592	32.7676164492555
	37.1820543575123	42.785429206422	38.6662194645633	41.0657892043496
MYNN	69.6449298794042	70.9970523709176	66.0411740221276	76.3693529894936
	94.9808934532248	78.0013795192762	76.0041771381018	58.7460488758053
	63.3999425418402	61.8529316708431	62.6885730386156	69.1743062945144
MYO10	86.6655289455628	51.9421032049606	56.3471340054074	49.3654837541353
	49.9493230064613	48.260931742163	60.7992483126292	60.5571721986885
	65.1424206085551	62.2025996860055	56.233217375698	55.8775622338124
MYO15A	36.6480005877129	41.4508241771315	36.769073068743	
	39.5050383901884	40.2449343247539	39.0266821712099	38.6243997507646
	40.1474543172332	38.1169703906207	38.1042454705119	36.2435874904689
	34.3409660445447			
MYO15B	39.0620487644635	41.554942319225	38.1421709520616	
	36.3604951341921	40.9950639693255	35.5158505219112	32.4466419672036
	39.4710743516517	37.1820543575123	36.1550293353654	40.0766543123257
	46.2625470410195			
MYO16	41.0608773166058	37.5469247328848	35.2838283525874	41.4273122914951
	37.5556299264699	36.8059561571675	38.1793598983615	41.7419877611072
	38.9834959368496	43.4885245598939	37.9230440150891	39.2469742642337
MYO18A	60.394307846869	50.164201758929	54.0170817319522	
	47.1332119496722	44.8351976221735	51.3886035574416	47.9665737016961
	58.4200819624972	60.4837400912239	55.7148182465955	56.8436081694537
	51.973762640055			
MYO18B	32.0823591288671	37.2810767789306	42.9104454767916	
	37.9875302985336	38.1644569189523	41.2567470068038	40.0052661202207
	40.047314525032	40.7847110517594	40.2112371512838	39.9070785037411
	37.5556299264699			
MYO19	77.7455757878929	53.8499082625091	68.9038222450855	46.6986977330569
	106.641283957692	54.5952754712007	76.7483302168542	64.2690842803282
	96.7799695976296	53.4700829948668	55.421880601441	50.5511827666954
MYO1A	52.0299937917925	45.6533175604486	42.7303139017786	43.074472921841
	54.1225249245036	41.8613406887824	45.223075311113	48.7814131120945
	44.8997235283254	52.3304586399695	45.9104478407175	46.4499258373233
MYO1B	166.188557509096	64.1267046511632	76.3583555666815	69.2963913574682
	85.0852996855365	67.132092735265	69.7242825662275	114.901312275861
	78.270329450618	71.1607965028029	75.5103237141193	79.1209792219434
MYO1C	92.4896666046729	108.39424630351	138.23147386089	90.0157406552551
	86.3458707176254	131.238796973323	101.250422688816	83.757054871222
	76.9535968101411	140.532496807694	132.646267783456	134.258351436533



MYO1D	182.885934774318	204.68542226859	282.115786635657	173.536155357688
	74.5758811681995	214.342804055754	152.17335005192	140.853812988562
	245.769212889294	215.290701336046	199.480636964499	204.273912273411
MYO1E	58.4920021605316	47.4076235350059	47.2962360458401	50.2163892855092
	45.8051846088552	56.1671440556142	43.3262148375525	47.8947595316832
	56.7991853808475	47.2299678280724	48.2050207071554	56.7711602236706
MYO1F	57.6913861717513	67.3519071522322	57.9279989359711	251.268123356533
	46.8674366115656	81.2314452281031	71.8466937395628	63.1604223919703
	41.3803269429468	53.4109882045447	55.1099824417989	48.1627097465883
MYO1G	110.214922820817	126.389908470189	100.43365828852	483.000434270291
	63.5932443357808	82.7269382676336	93.0538726751588	74.6572522248684
	47.7086093893038	61.0935621637178	81.9727730469029	56.9379721393904
MYO3A	37.1485601150873	38.5252456306656	37.6557714476853	35.1451084093692
	38.3561682218911	42.2577689927563	40.1235656101329	38.8495095797881
	36.9060997041453	33.6902293666089	36.6298807161755	43.4709415392696
MYO3B	100.007199072224	109.23113111292	101.935321521672	102.430234282331
	75.9397606694785	62.9688525319822	100.205124008648	144.684130072542
	64.7766649630041	137.156113501125	118.507569961357	115.441414762268
MYO5A	108.022329297132	67.9697948557876	71.0340758556049	185.395460281034
	63.8315840603904	100.305262467668	117.706922397135	225.300736968225
	54.7033747046992	71.9124897002253	54.9765783642973	65.7853960266587
MYO5B	43.3638918705225	52.5868047927666	44.7255207589606	44.4954892619459
	40.6723334103791	40.5805725503899	54.5772630900888	53.3577647219133
	60.3977304934451	52.5522545249206	53.5698357689852	51.6046415904452
MYO5C	417.086922265732	78.806097512943	106.443777149496	71.9062462001972
	144.412165495719	141.364814429951	282.646286144563	249.195312452368
	242.450054864856	194.469250918013	202.395470754957	154.945533851823
MYO6	105.914573205761	168.11088055793	134.271727318694	57.8277957325085
	61.6452971581503	72.149478755262	163.62024333166	136.332339821167
	141.410183156424	100.975810139572	95.8149149211251	128.873145026756
MYO7A	61.5882375235292	52.2501726671381	62.0008474085033	76.2591822114739
	52.8190882379316	66.2167164788023	52.8496345990125	74.7794253940974
	43.2761454096265	42.2614524730856	51.0492389286271	42.9887069977696
MYO7B	45.6517320730042	39.3999056968598	43.0971787292711	52.1201052574162
	39.7568367479301	42.357910063876	36.197424053556	39.2672712041774
	39.3750969348308	36.0481934423077	42.6366765186182	46.5650556481721
MYO9A	173.262440365651	91.2647023876304	116.080897948094	162.151812425949
	110.214922820817	312.648013979436	167.352766082239	317.892699374852
	159.147713331732	352.47015903013	292.065366215278	226.35806628102
MYO9B	200.144817111902	174.537032518715	157.677866955988	261.138426747953
	181.381479219186	148.770228614661	180.502282381416	371.167168940365
	149.856848496725	158.918242816842	169.970634268117	137.52864596636
MYOC	42.2618615571566	44.0409178714232	41.8389336728199	42.1622837416589
	41.1868052124344	326.250872625748	40.0052661202207	38.3684202018524
	42.2577689927563	96.2385885003071	133.040933717958	47.1060577218993
MYOCD	46.7293238583888	37.3634897565502	44.6032218589199	39.066284740632
	39.0564222526273	64.0985088513857	38.0598374201407	42.357910063876
	41.2870505273664	58.3813211109331	50.0303076717704	54.293880614303
MYOD1	43.0001432913058	44.9370339275041	46.4569566520107	44.9370339275041
	45.4751076037511	46.3715909653832	36.634024014558	47.0940613507321
	41.863927676552	44.7958122466628	41.0808257270221	36.5474283500601
MYOG	35.9305494063137	36.3110701990588	43.6670755115848	36.5393857306744
	41.5668884168669	39.2248354955045	33.6696565339534	39.1652965788406
	39.7537274655115	36.0481934423077	34.4716904283753	36.6603338274678

MYOHD1	41.2424637338424	41.7337506166619	44.5134109184888	
	36.6501141438378	51.0107745412152	48.4758590019384	48.4859552186772
	48.3590401011623	41.6616444147804	44.7958122466628	39.8184668132023
	44.9070250604284			
MYOM1	62.2150049214174	51.524711857679	60.0856496605043	75.6103053700122
	36.9060997041453	1164.71243740122	44.6032218589199	72.121833189378
	54.4059109100338	567.978225839768	565.411298018845	350.451704069255
MYOM2	40.3478825593224	55.5294887653184	45.7968648044613	63.0153175111747
	47.3172462673426	90.99086730704	42.9803717121865	38.2782436497441
	39.7537274655115	141.830305704504	112.805898501551	59.6757573886627
MYOM3	42.1537476443423	43.8495248991589	50.2869791217819	50.0526763693329
	39.4693871570028	40.040778349137	43.9450023643394	38.1835938174625
	45.6582729799009	42.1622837416589	46.972521499515	48.3648494350286
MYOT	39.266565827316	42.6939394537076	45.3974838013476	43.1847628331565
	43.5544347011646	148.925503526873	41.4742337714895	48.4670130605028
	41.2870505273664	66.9218519793499	64.1267046511632	53.9431600945419
MYOZ1	36.3649677956953	42.0709558258414	42.0621425894624	49.7350276169552
	46.7508829977587	44.1737502492846	49.6872467499977	44.293922970134
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MYOZ2	42.0532901689036	45.9266745571724	38.7745734037492	41.5464765641928
	48.0234896130991	42.750861693377	40.5585676679482	38.8495095797881
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MYOZ3	54.7786516309154	46.5650556481721	42.2577689927563	41.3027031037343
	38.0598374201407	61.6219790276408	56.3376046940285	45.7476095696859
	38.1169703906207	71.7464249053513	69.4877749654481	47.1060577218993
MYPN	46.441301934328	40.5400384479766	38.0452862258803	35.249124243346
	42.0709558258414	38.0648056183784	38.0598374201407	42.9887069977696
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MYRIP	40.5320714850602	63.3948709726117	42.6920011548175	41.948762493127
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	51.6869155634183	38.4330755397458	37.830876898596	41.0381860307445
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	118.155986485411	203.353724675525	183.469819903584	128.230543301378
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	426.622204035624	538.153124145211	509.879213331349	342.387761195952
NXF2	41.483412492426	41.4223563635976	42.9641759692926	46.0905079010237
	40.4166536885831	41.7256940298128	40.4941260038116	41.5934628038429
	46.6491671626143	42.02667925031	37.8372168909583	43.9366081640576
NXF2B	42.1679276329916	40.3104838541906	44.2733573199954	43.367124590178
	43.8835874380262	43.6670755115848	42.9803717121865	44.6107027295193
	40.7460990419215	45.3530683538086	40.547835538778	42.0424641526302
NXF3	42.9104454767916	44.9370339275041	49.4573631027613	41.7614975630362
	44.3557408297309	34.3887641786747	43.5627649099623	40.6171774724171
	40.5912213523345	44.571915452417	45.4799270968969	45.7562276914441
NXF4	40.2087556903277	42.2900457798748	41.554942319225	46.6849259108754
	39.7568367479301	39.8455060654531	40.6750540874299	38.1835938174625
	42.2248608921879	39.3113207075992	38.079222289614	41.9083581529276
NXF5	40.148780650831	43.9421822132391	37.5597671487621	41.5464765641928
	34.5301949364147	41.0582900711341	40.7910160811527	35.9023742468744
	39.9444191873552	43.6033221838149	36.0481934423077	40.7704587752083
NXN	264.495576211074	65.6721629145797	133.576489624155	126.69706456173
	171.899182876869	196.29493890075	133.877825732645	78.5375244257332
	47.9035532886869	214.369365247268	248.744491123257	211.064699765122
NXNL1	51.413025495745	46.9919960628953	41.6977706798234	47.8164193292842
	47.8075998240396	48.0350549043063	62.3556396662215	56.9299697426319
	45.8325181856483	59.8130420783374	51.0492389286271	48.0350549043063
NXNL2	41.3785995857154	38.8336427948187	38.941855825269	43.7410507935043
	41.5668884168669	36.7356360093603	37.5469247328848	42.0494116081998
	42.4540072551568	39.528971131769	42.5023941254529	38.7012264805355
NXPH1	50.0466349801009	44.5884811528117	46.6588655218735	43.8002456102021
	42.269054475455	40.5281496800812	42.357910063876	43.5544347011646
	42.9020321355927	47.3791873993182	40.9157352260901	47.0130468198828
NXPH2	37.7384958256497	41.554942319225	41.0356368374708	48.1662933382789
	37.2567512265363	38.1169703906207	39.3585350448719	38.4540849632254
	37.10170285405	42.8936990772838	42.7275315121163	42.8864415494484

NXP3	47.6397712007919	41.9894412416874	43.9450023643394	40.5484717678957
	40.8873907150245	72.8472187581193	42.7431359850339	43.6434576713809
	42.5406888281114	55.9283039581662	74.1425714439424	52.8455400026194
NXP4	58.9801947700265	41.6466169548846	39.8656165405284	37.4642807402741
	41.467005949568	39.8785903668981	41.5399751350162	43.3838505886856
	47.640730838451	43.2438688757519	37.9491866904702	36.6083186362649
NXT1	362.03448469738	602.047768767953	496.163796158189	562.258108316474
	1369.13346566895	609.243908604949	996.520340280883	306.66244801017
	633.385474385877	327.786619565391	346.844545554188	430.283061862756
NXT2	38.1169703906207	49.3581578587582	44.9758339877851	47.3574589211166
	59.1948983423381	45.7300501624017	64.3669451425581	53.7378346199838
	58.3564461855595	60.8730416435467	50.7903824729818	50.2163892855092
NY-REN-7	42.6036491382658	48.8584917918986	44.4311655729487	
	43.074472921841	47.6884372645373	44.1737502492846	49.2546642180676
	45.2806199505029	46.0106098064475	41.3321861371202	49.1868644496737
	44.0451487108213			
NY-SAR-48	75.6471706262645	73.9732553364283	62.5194460957899	
	68.878562323012	99.7668527666705	58.3015837845113	97.9401338178996
	109.811921160228	96.2799270895937	62.8201270538435	62.2200723764909
	59.3082373468217			
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	37.5556299264699	36.1190722948669	37.6036146841933	37.5511560880902
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OAF	482.238595345574	344.657779779036	377.221676837377	423.804472820231
	520.415257194417	979.468753716758	185.924923239764	340.812638857273
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	118.771995863848	68.0501900087917	136.155022329495	119.512426152446
	184.303357812653	69.2963913574682	69.0975200641705	165.42634596698
OAS2	121.01013827107	307.550936236018	240.217589414972	170.390108862804
	148.879760620316	88.0055507173538	182.976132230487	149.295715963625
	295.430709655678	159.52633805025	126.420070148631	132.555169949054
OAS3	95.0026207727863	234.078434290473	154.455976468088	89.0684909049451
	117.574549567	66.4568741702152	129.070921534555	109.137372445043
	159.095553026723	97.7620313090597	101.187156681366	123.27141431776
OASL	40.7022020432945	50.9643363406241	54.1952533541951	45.334106390212
	47.2074332636566	44.1737502492846	44.3440839686558	54.2301964914419
	66.3826728861909	46.8954576545929	45.5055402477919	48.3119523820103
OAT	287.981727851442	120.943323740458	373.330920144642	470.004780385708
	395.634889855838	763.947361966861	275.407306413402	296.532363090593
	244.285061669874	204.502683458676	229.584451980272	295.69493803986
OAZ1	7393.77508374057	10617.4323014458	9582.11974031559	13656.2581082905
	9181.13240708506	8703.02873382565	9488.06491634484	8050.256095383
	10351.5373412096	7323.77427153966	7127.13565491501	6134.89208517976
OAZ3	53.8856501960117	49.6203214143464	56.2441895183416	53.3967242431461
	51.2525124735102	49.8472708021525	42.4939802311136	52.8622615027833
	53.9287524861617	52.7972156492746	50.3221380889396	57.0524725494273
OBFC1	175.028390974125	321.686871145301	412.421643885499	187.331614826395
	200.019523376661	158.156217755244	284.351747562807	406.104588997462
	276.360065404067	345.876877384089	305.048508698231	380.736562250846
OBFC2A	202.459251553516	116.374125502825	166.33117014492	
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	150.396608064863			

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	138.070735985503			
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	43.9450023643394	42.0574848021044	39.0458123429605	42.2577689927563
	41.5635499110307	40.4136535208406	35.1470994647364	42.0424641526302
OBP2B	41.3387790895716	35.4484652445078	39.1799070031819	35.9521941716188
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OBSCN	52.4179224871914	58.9910892923962	55.6865353018811	44.9370339275041
	68.9038222450855	49.3172204533818	56.0515443021293	39.0620487644635
	57.2716485658185	85.1188125003595	64.2174369755376	58.8188963227059
OBSL1	42.9104454767916	42.7775752471711	41.528370959196	46.7577982595088
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OC90	38.6454098044474	35.2143190355414	40.1985790927248	44.0451487108213
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OCA2	35.0202257459026	37.3634897565502	36.6522278218553	37.0732977341185
	44.4489662507893	39.4953494583071	42.4939802311136	34.8949555140527
	45.3756389170606	38.3092241935352	39.153226699662	38.1421709520616
OCEL1	266.129007472128	192.112101000423	293.217518524507	173.536155357688
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	1047.33749100342	670.023570141464	707.4124863603	851.813216452015
	1541.9572099378	771.554891868456	1752.11152588494	1829.30985071028
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	67.6011992144113	133.798096986107	75.164719839017	82.0925058822176
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OLA1	40.0270326792985	43.5182502375207	42.640829914102	41.0273093212371
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	39.044540595942	40.1179210534118	40.6373400186325	39.3931655934497
OLAH	40.4639532172338	44.5884811528117	39.3709357615493	46.8954576545929
	48.0234896130991	37.4782441311626	41.0381860307445	43.844855336215
	41.863927676552	41.0057887014368	40.8225507267584	45.4799270968969
OLFM1	44.0760877044901	51.342502154612	39.5450079747895	114.25042083587
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	39.853866204927	86.2895084312264	116.596605311488	77.4531387955233
OLFM2	45.4799270968969	37.5469247328848	38.9790184198145	47.3574589211166
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OLFML1	105.802035886293	56.463481075522	46.9040704638073	
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	66.0303950772736	39.853866204927	148.964204638494	107.222176166001
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OLFML2B	412.072103136251	90.5603308057889	92.804679821289	
	306.895449954881	77.4769634299218	88.6287852712744	59.9792284253187
	64.6316818494785	49.641159251878	70.7805103907761	57.2979215534929
	52.1186591838715			
OLFML3	307.656792056993	81.6529991377083	59.4431489877328	
	104.528976428975	72.4060089486729	355.351648424266	43.4544762830742
	84.607833108004	44.1519466943185	249.411435337932	195.58977358589
	131.068763088422			



OLIG1	50.8388984085636	41.8848959280916	40.931294690669	92.2530518251152
	42.4864576619427	42.4580504587581	39.2533668167483	42.4580504587581
	40.3316153483289	40.8049408996274	44.0409178714232	40.8681871019812
OLIG2	44.2350046179299	45.0905928998779	38.2280071951674	108.025082988807
	36.3390947880186	44.7804080899431	39.6535880152834	39.1652965788406
	45.7452456977857	36.5806287103157	45.7328341667151	32.4951076826876
OLIG3	46.5549623118323	43.3458769998118	45.2313723727673	47.6687908290818
	50.3713170502557	39.3841861812262	44.0687697278114	45.8669209716694
	42.7150227340364	49.5265949137207	36.43924066428	33.6902293666089
OLR1	225.559405596065	83.4951332849212	101.403739410832	2150.8715161597
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OMA1	59.6008106247114	108.599492114105	109.979856686854	77.0774476767901
	93.6035786561544	98.6825522152097	92.0658899997157	80.8593396441328
	154.509548705054	90.1696131791736	103.934830132715	140.465247047676
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	42.9020321355927	126.156748063621	83.3729277601518	73.5599394565136
OMG	37.9387791625384	49.4067286971348	41.6977706798234	37.7469621225553
	41.2740822675592	38.2293008890613	38.0598374201407	44.4031868028216
	39.7537274655115	42.785429206422	36.7283081422707	41.1554481567603
OMP	37.6397652536077	38.5252456306656	36.0306975524309	32.2212308728305
	39.3667161654772	36.3845892764084	39.8695929627783	38.079222289614
	38.4344387289956	42.4594149893798	39.3667161654772	38.5279745308203
ONECUT1	42.466333667839	38.4757888225478	40.4070046183108	
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	41.0844534776541	46.0633179231318	44.1861590259178	41.0808257270221
	44.0451487108213			
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OPA3	48.5123041297835	49.8666125578518	51.1721071708252	49.8304479381623
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	39.2672712041774	36.4816715148518	38.528621456378	41.8168470823451
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	37.4540772310118	38.745552403895	44.2925355984056	44.6484005362281
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	30.6242215267208	38.9378717994178	35.9058393060637	38.6454098044474
	36.0741672064298	37.1275334308172	37.2892641289258	37.2810767789306

OTOR	41.8409927585705	41.3610369241157	43.6039443285137	41.3567204694281
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OTP	44.7915315085948	44.6360645306497	41.7419877611072	43.367124590178
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OTUB1	68.1969125201241	101.468662074178	91.5230424957075	65.3191216270241
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	47.0533794594844	44.3236524597291	41.6520912742594	41.7932258301997
	52.0042367882776	47.0627306565247	43.6960408897486	45.2189250687483
OTUD1	72.2610650652674	55.6735944873518	48.3458108324478	92.3034609409756
	47.6884372645373	68.1311562787361	56.5763837326326	65.2464683900404
	57.8772482723463	62.6532574724345	62.3285777410103	56.4578213622965
OTUD3	42.442231667357	48.4980626712175	40.7620472083159	41.3027031037343
	41.7929491793697	38.6414316877471	39.3585350448719	42.0494116081998
	40.0403898620771	38.0078357808393	39.4410515050885	41.0657892043496
OTUD4	65.8959431201418	66.5461118812206	77.4246856935596	82.4084917533632
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OTUD6A	42.3433931248155	42.3550738181144	44.0451487108213	
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	42.4580504587581	41.8503210829559	42.357910063876	41.2040352443154
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	42.352235481637	43.8227482938742	39.9397419279057	42.6008809597607
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OVGP1	73.7133884699889	139.472956453414	101.2615980834	137.095435683619
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	56.5933259268408	83.7019398654324	50.8388984085636	69.3468840908665
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OXGR1	37.9684178523773	71.9539136431119	34.2890785915814	38.4699622716254
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PATE	49.540449125788	41.0678614026819	45.989212296035	47.481302504066
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PATZ1	44.4669000196164	49.5443425465542	44.4311655729487	39.6609238036815
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PAX1	43.6706764143908	37.6383530120621	47.4740726032707	40.9607305725196
	40.5710637884029	43.4681646416585	40.9157352260901	45.642304356051
	40.5912213523345	42.9866214102525	39.153226699662	45.1735152121056
PAX2	40.4139947039718	41.8848959280916	40.047314525032	39.5050383901884
	38.7937049365871	43.128936937037	41.8695090436685	44.081163104701
	40.1751033251565	41.8613406887824	42.0507048990507	40.7704587752083
PAX3	39.4710743516517	38.0226905622357	40.1467909696443	34.982641408618
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	40.137818555383	36.5219488315447	37.3404647796601	36.0286175582624

PAX4	43.0930293831497	42.8542642792862	29.4322896559759	42.2496337895968
	37.3508690072156	37.4782441311626	48.6395795163502	42.2577689927563
	45.1899271235974	47.7180816682562	44.2142581488029	44.5432192783161
PAX5	32.0823591288671	31.498275130159	39.2707964550441	41.7614975630362
	33.4316681623175	37.7000400506818	37.0564573649223	35.5798430594271
	35.4332080966594	37.4302011516587	35.9563099719284	35.9604262434141
PAX6	39.0620487644635	39.5573415356949	41.1742244762318	38.5252456306656
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PAX7	110.362432903746	106.521012342668	127.265200736376	156.69976952483
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PBOV1	43.7920955808549	41.1212129940704	46.0727230219512	44.0451487108213
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 PEX3 40.0557788909923 38.2263227947189 39.4710743516517 40.7481155008596  
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 PEX5 452.969595001684 339.52415679299 389.248080358801 234.308728996238  
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	84.9075858560758	59.8130420783374	67.6271456814495	96.6957892186886
PIGK	87.1735705257803	63.6287257620165	65.7670524353661	80.5537984388921
	64.9072331703985	99.2749350936362	50.2016912396771	64.120219344545
	50.9010149857308	56.4553747079294	72.1090339831747	79.1209792219434
PIGL	47.1962846565261	57.0082102559228	65.1185966859561	47.9915414951747
	113.747633871556	51.702461863489	56.3376046940285	54.8412943008635
	52.1788489555942	52.4351670989268	50.0303076717704	49.3087627580849
PIGM	58.0139597055449	72.0792554308917	90.3485862002091	55.2214187655851
	94.8408264309872	44.3648993568405	66.5422130374814	73.2037966614621
	153.940127525369	78.9420136903401	77.7714622826402	68.6047087267554
PIGN	106.10668428032	119.808125185521	167.626012561905	120.92335773864
	90.385018479478	95.5325488969517	107.54932544455	76.5339970774168
	213.830284761604	167.49597550111	149.076166432567	155.225701588645

PIGO	85.1950626054282	100.168016285684	70.0697974278875	60.7741670229412
	84.3589195870713	61.8757975011721	93.6717518147993	99.4184778430267
	90.4402629353785	82.291097567232	80.0381580139229	84.5829208578248
PIGP	108.022329297132	209.438270055157	322.774093041134	163.844659359002
	293.258858033133	277.665554240228	181.705809767061	135.41852974791
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PIGQ	172.381808887528	130.720191554964	179.378838766172	97.2220312216969
	164.813928846511	100.423344358771	154.019005732316	128.827672077002
	177.379924616924	147.444007777385	195.063474879275	107.087870999702
PIGR	41.5421429082231	63.2804984998739	111.735319884512	46.4555908533915
	41.467005949568	42.157627240486	380.988918630713	48.1591264215184
	108.654797121478	46.7646877499666	104.715234047628	48.27609330316
PIGS	117.282216847547	116.51037006692	137.955007835039	105.45765455249
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	156.56745342836	114.321083441061	118.251739134889	129.091447141381
PIGT	314.924656469102	357.254500791202	416.717470974721	281.527450183603
	424.539111965342	411.047310950296	338.415128695208	264.212242593461
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	192.700843009002	163.860910729725	210.768576894328	137.897231677665
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	106.590506599473	196.735144093998	149.933827818309	139.731620245421
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	74.3523005665671	45.2852528185486	59.5205055437765	53.6782125131958
	91.3362264594431	46.0119912782855	50.9815930710768	48.27609330316
PIGX	51.6558970571712	39.3999056968598	49.3000844711116	50.378948785456
	60.6400800519777	56.3525213736952	58.2315917325629	73.746472097049
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PLD2	71.9062462001972	88.5458450926665	101.804757613639	95.3070802596041
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	41.7929491793697	36.4986986135769	36.197424053556	39.2672712041774
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PSMA1	267.523307072523	436.757445186987	397.745727767552	381.198152331624
	358.30596676183	352.019218177371	310.461601607662	289.410651581802
	385.512974999198	187.656257079035	203.203214597447	381.533380474563
PSMA2	125.321349772971	101.940584589951	90.0767501615808	123.281175151414
	103.356071080819	95.5920087912438	102.77259665192	130.261747462753
	146.087016079575	112.760972238512	113.169111095305	141.376779431031

PSMA3	187.767803297395	203.53267380432	158.081235081686	169.322551237636
	147.388500451427	152.86270446968	121.562769658314	212.622278823808
	241.952522667413	94.1050519074545	118.10944558223	177.912351477808
PSMA4	421.279008280368	454.939614583134	231.198764780818	426.015657750123
	511.067537752967	314.782545392841	447.709872889701	526.750242877914
	566.318259999405	263.068504548549	289.410651581802	419.741944629785
PSMA5	1035.67547271468	1297.78424326775	922.047328788961	1055.69506483576
	759.94822128584	577.993850127555	1186.06822787922	1123.21773312657
	1247.50618540769	480.660242705293	511.792908607692	858.975085087497
PSMA6	943.73554571528	1065.70206468134	1349.09482344633	1615.83220398811
	841.850722284484	754.700295017212	1217.21440297138	1323.73429724066
	1311.88650141004	711.773459577386	642.211963248041	1007.03747721563
PSMA7	44.3355304829989	63.7721358300879	54.6051538001037	70.0402992940342
	61.6452971581503	45.0882356578404	52.8496345990125	48.87875862356
	51.0062122023297	43.1839109702714	50.2203578628217	51.8562635270111
PSMA8	39.7576136507593	39.0894172982439	48.1331309338997	35.1451084093692
	41.2740822675592	31.3901365951213	40.1235656101329	35.9023742468744
	41.1742244762318	39.6719190054379	35.4386677371439	39.8497227447888
PSMAL	38.304249186058	39.5050383901884	39.4710743516517	38.9534635879195
	39.6535880152834	40.1428591998404	41.4742337714895	43.2551508830106
	46.4164127487052	40.8970401536578	43.7585538437696	45.6692241948108
PSMB1	1762.93413846062	1261.91478863258	1243.32650314893	1425.37639004849
	1130.2486883492	1269.36837611919	1273.52492984569	807.620534408416
	974.296760034984	1157.65264077595	1180.7204565402	1566.12726152736
PSMB10	1105.00321488322	1686.40194722823	1783.87583818834	
	1226.43929953115	509.671528514181	828.777886752805	1726.90584784425
	1615.83220398811	1185.41286656121	1194.10154988793	1310.03307063841
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PSMB2	481.145001682177	725.680256063016	635.52621743309	500.313640131475
	1021.71286017481	473.688869614777	969.805093523651	1149.02954135912
	901.155190428891	351.290929267326	457.202737754842	537.213035625492
PSMB3	1716.82239359769	1351.49940447914	1303.33517942343	1876.51621222292
	1473.52943897204	1080.43016747082	2191.09005731751	1501.67042548971
	2039.89728774097	1016.13142851085	923.470702344816	1174.92419086759
PSMB4	993.626865290891	867.856842601788	1231.77360353254	935.815928529014
	1065.70206468134	935.815928529014	1254.34397143795	1780.14552702126
	1073.84987604662	1145.59111340228	856.790359133679	856.790359133679
PSMB5	1093.04440713629	503.793770799548	552.480471244789	337.441212908704
	684.238999553691	474.267141780289	378.12777235743	389.131545459708
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PSMB6	1239.68399088145	1480.95754707554	1704.0522304387	1297.78424326775
	1228.1735887278	1364.06060391538	1824.79010714035	1387.28483887704
	1259.2978319548	1178.52115916913	1219.52011418558	1087.75682788799
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	1093.84714207969	969.805093523651	1839.09068171097	1349.09482344633
	1122.44489338159	965.530928317269	799.803676957263	955.088515235485
PSMB8	217.263889616995	282.445037659981	263.387877739079	381.6928205836
	74.1686961093736	125.221639689345	263.832968124343	162.908986027874
	215.609821689043	139.062073456923	178.961579489906	149.397632479523
PSMB9	112.421316052392	108.734392572981	108.976748006885	294.006023678979
	45.4751076037511	88.1068080491008	138.027432399991	92.1151486847283
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PSMC1	1615.83220398811	657.031980628955	1061.61186520958	1303.33517942343
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	1069.3975598703	1130.2486883492	1208.33498233518	1122.44489338159
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	770.715044136717	887.118866402149	575.057786209737	1167.25317435052
	902.691776563423	397.798003824167	452.139416552986	632.019639546131
PSMC3	427.818758455214	405.496884468464	410.329983506955	465.266372824212
	353.751797948675	546.287195443189	546.94113683381	477.263677441074
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PSMC3IP	49.3060603897116	48.8842909466002	45.6395907124089	
	41.8190986513051	57.5685357492202	51.702461863489	65.4561038762234
	51.7289068180135	56.8622704143595	44.3648993568405	46.68364047986
	48.0163377492228			
PSMC4	137.239944506217	180.648144492464	206.234676343851	142.048367760597
	276.747699321595	176.871009816977	275.673080691335	184.519582091623
	244.089971761037	63.6589494264095	79.4832790698673	135.782043043499
PSMC5	300.186402341399	268.419751472464	366.420967163945	277.325795311848
	293.649670545233	391.658764737446	353.598144765197	411.114836576804
	464.671881584567	374.427492246826	469.427640339806	370.150839052727
PSMC6	291.64206171681	283.111920665176	272.198774144152	247.356027979377
	233.72882333861	318.069132873489	198.979794834746	215.770028283461
	298.031228833741	131.010196997585	148.758736522703	269.857104259782
PSMD1	527.439095170064	550.861615347663	515.216890329893	457.502917254598
	606.276674926567	677.668455095171	475.310458821086	640.407302868904
	475.310458821086	329.120125961774	443.863346367342	382.538365722661
PSMD10	180.648144492464	198.432987946699	241.849566505679	
	167.999042735556	196.228284571015	190.053043382767	174.368595478868
	192.763875975315	237.161912299581	130.960165577212	134.736333062531
	206.072527867605			
PSMD11	49.7188990489616	45.8669209716694	44.7829632472754	
	46.614092935749	56.359578588344	51.4931742685391	53.0277416531043
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	46.5650556481721			
PSMD12	735.751447981069	563.927521628693	656.355333007615	
	704.15545332905	545.827286197333	534.292112344761	674.270050283701
	906.833938613875	537.213035625492	739.541009338849	805.87120346756
	788.232434009173			
PSMD13	45.8108990837624	49.9547657591437	48.3458108324478	
	59.4674205670657	47.8697093824642	49.9699131196797	40.8681871019812
	47.4740726032707	56.7635847444447	52.4887473044594	55.854474649572
	50.7975577422986			
PSMD14	344.44626908553	264.600870859012	220.398778650109	
	277.993522959259	290.710970844525	247.134338953977	240.431987635418
	304.33749254654	222.126944340681	131.973056760893	163.971002049561
	261.138426747953			
PSMD2	394.60094965726	349.767857026458	393.209708455013	333.421080658854
	610.678132881994	390.647843814517	454.402224020514	475.621740714165
	408.080620074472	258.757703729905	297.187417426993	284.296510445032
PSMD3	90.6805895192707	115.98265270452	98.8595497262968	98.9560329133205
	116.694275999729	69.1523164481201	148.770228614661	89.3868257841517
	235.888544042065	77.775644509079	80.2381651206227	75.2431285480772
PSMD4	436.497820504526	375.095491465679	603.737787922337	407.564154455615
	629.763102939071	688.612748336336	669.419736252343	934.48498309932
	538.153124145211	354.015808474189	402.412173952792	363.67768546508



PSMD5	137.294289316915	99.135422012965	81.1249338842464	106.20479137406
	103.792424865682	115.761674855716	121.542387231625	72.9752827496503
	103.264100180823	96.0236731791095	89.5887648181505	88.1733775711738
PSMD6	304.258586051126	489.42739398838	454.402224020514	379.865108456536
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	489.232537791775	219.388293203286	289.975375372371	390.906200053021
PSMD7	634.514100741768	805.309720893073	734.143790759359	555.044139654886
	559.296669575666	643.9329225331	815.810781070699	483.313014703768
	570.085422388476	306.94883838074	312.40869171788	577.276184555955
PSMD8	1086.12171444149	282.262229126907	174.332103484796	289.112248695929
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PSMD9	57.4376528157926	51.6869155634183	51.223859150798	64.5347406608537
	57.1935729219207	59.7009992986607	54.339958888486	55.3122077514658
	74.4958282816601	55.5206840401643	49.1067959632109	49.4786466722535
PSME1	612.843402058384	757.257495810249	735.60603239712	735.460645553438
	403.428042132639	524.451156145427	520.722292021743	523.25106120389
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PSME2	437.015713629277	464.99944459917	470.004780385708	406.219918936024
	246.568253751149	235.195902632101	228.747320301945	224.231862271463
	442.853589679801	144.063191647372	229.035497774884	261.51893439249
PSME3	167.702870734995	265.367588517131	223.1171195512	130.673639258681
	503.187121806288	254.756894822368	243.952697457779	236.440703574276
	344.44626908553	226.168990555083	235.222472959869	230.286815921497
PSME4	423.989018031638	410.979796414875	391.658764737446	246.869486382264
	361.158558609751	212.813224717262	306.895449954881	1099.52344340557
	364.337811621248	445.644244692294	430.283061862756	443.581460031166
PSMF1	241.901039109114	183.690616959682	219.036267470696	224.14182624489
	292.86576686019	300.803955139552	228.571334092678	248.599530435666
	213.655570682141	313.763121699885	293.300203370043	285.459248157609
PSMG1	136.883475451494	185.72957253374	211.164957509884	179.897685693038
	277.665554240228	155.888873407786	269.745248423773	183.66684597416
	244.089971761037	90.1696131791736	105.220978559157	126.753713093485
PSMG2	548.815225941887	832.181997440212	822.822769402853	539.720977763663
	716.754656773542	646.791777335656	618.293140877956	594.184150517102
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PSPH	68.4352167527791	69.2082505043031	70.2577825186943	58.0218262176065
	107.827560253663	64.1777305915695	82.4362183543935	48.7039705048129
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PSPHL	40.148780650831	45.1694246393676	45.989212296035	44.9370339275041
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PSPN	42.3433931248155	46.0023068797812	34.4716904283753	39.7411455670172
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PSRC1	53.9677557002311	54.0306705819541	53.6334631215581	44.4367387274922
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PTCD3	50.9381343674699	45.0115870036541	41.437237454134	38.5252456306656
	52.8190882379316	43.4681646416585	38.6243997507646	38.4540849632254
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PTPRT	42.1650127805175	41.6757511223421	40.8420925848403	40.1321264723693
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	45.1137938810047	42.357910063876	47.4439407315335	45.7476095696859
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	36.5393857306744	46.0043807840705	43.4681646416585	41.706879587091
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PTRF	999.13039066242	237.039707901886	408.080620074472	405.322894577918
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PTRH1	154.149426842591	88.4740208892504	94.717335243904	83.877343750194
	156.02592319461	116.76301232629	128.024853362102	128.503671563486
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PTRH2	225.760096749053	184.938142193035	157.856158440506	190.548265163011
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	241.24267509333	109.738537924214	120.289145237975	161.739131587013
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	238.893145911331	264.495576211074	211.164957509884	187.422036538629
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	204.862161704394	58.8605811695948	222.92930674999	273.320144423733
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PUM1	608.005012673672	736.626341475753	762.855719373733	505.294880430281
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PUS7	173.838110431513	125.027865666372	131.517202728816	80.0042268333735
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	43.3744503319109	276.666571115104	68.0414563597154	273.540763256424
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	95.5079495291324	120.123385036416	117.260454792593	123.689895848613
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PVRL4	55.1306642449627	72.2610650652674	69.7855392178808	39.3750969348308
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	69.6021553604792			
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	682.35345164708	388.831358461844	687.011162822211	615.838713743621
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RBM15	261.51893439249	125.027865666372	144.17470770145	253.398345052444
	287.30565836295	162.932479392087	212.353676518748	324.936044300546
	222.453547273598	246.924485443224	166.349012388957	161.04166688561
RBM15B	54.0170817319522	66.3026572113793	57.7415362494584	
	48.1662933382789	62.6860949544223	60.4065050472082	64.7023558190673
	59.220967994972	77.1767494799711	63.7836577144372	47.3791873993182
	52.9609836781499			
RBM16	100.159565926265	88.6663961027926	99.1502352565568	92.4781449270918
	120.721482177994	88.1068080491008	77.9028721785469	91.1834104205004
	91.2488561751625	83.0700092537618	108.246687420741	102.49785018292
RBM17	328.721532812392	245.489660195494	221.743315748689	226.672191323896
	453.260719561292	622.435313940734	330.737070535671	146.892027926888
	327.455030020799	350.796638646601	369.032450063274	358.979854534484
RBM18	123.817018264773	100.02732841841	85.5839487225537	136.891616331257
	118.044483475719	108.961145389101	118.27400376579	94.6432868887401
	117.138945281875	70.4204944097269	74.0420372528779	115.441414762268
RBM19	44.1294459089314	40.1989248349075	47.973869237177	40.7941759414114
	46.0043807840705	44.0423286480199	46.0905079010237	40.1474543172332
	45.4131070782132	43.0290260867894	44.0484280023299	42.5379139224668

RBM20	41.0608773166058	45.3486182278177	49.4573631027613	50.8567345921473
	40.8873907150245	68.1969125201241	41.9393838138203	43.0390857698452
	47.27543600687	80.8593396441328	54.1963147679251	54.8630527326985
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	804.592753722875	1022.76279949073	809.577874019028	853.464809072841
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	456.757277476069	331.474920376907	380.098235864256	337.51861578231
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RBM25	250.244199415895	159.99819920335	288.552986300755	218.446312290024
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RBM26	72.692416146584	82.4362183543935	80.4060693489113	81.5135916455124
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RCN2	177.65469867262	388.132295362791	171.104201731733	131.347995391441
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RCOR1	39.1590964332473	40.3384318592985	42.640829914102	39.6292788039793
	36.5393857306744	39.6251842352088	33.1392460259336	38.956280281655
	43.6670755115848	38.957687788868	41.7272875295469	36.3454320848591
RCOR2	65.7587943905649	130.775349446374	58.0218262176065	51.949834638817
	298.721050521396	68.0501900087917	125.052841200703	86.4898752526885
	226.35806628102	46.441301934328	53.0798381965427	48.6795178347248
RCOR3	177.173301602325	187.086662645246	273.320144423733	132.93879018892
	147.704325041249	253.841638589385	163.458716079887	179.756604242873
	206.814831223864	496.791391622565	395.634889855838	254.920345078558
RCP9	326.121479451246	168.17913316957	205.121208974511	275.673080691335
	154.869301720717	144.546897317106	241.24267509333	383.642090672435
	149.856848496725	348.123960682064	341.97050042695	297.023913988137
RCSD1	68.7436392042714	65.2966707319433	75.561262816077	130.515102593803
	78.6286416672119	98.1701560122734	62.3556396662215	83.5767232665142
	72.7934987008399	73.5527788467294	87.7844808613265	74.4365426051588
RCVRN	45.0985088502363	43.2649781354792	41.8751578329365	44.1483976313959
	42.4864576619427	57.8944021095265	38.6243997507646	39.6474008369935
	42.0621425894624	48.0211752672327	43.5710871617107	53.2046867327331
RD3	41.7397731376692	32.0823591288671	35.6139301508335	44.9370339275041
	31.8228237796461	36.9060997041453	34.9344532055397	32.6039814489621
	35.9645119596869	32.7131023641972	33.6902293666089	37.7526485343328
RDBP	167.848222139162	86.9032093551446	98.4930941487534	148.529482776555
	134.051011731533	90.407200101342	162.902264837659	144.515737827731
	109.492219458129	96.0236731791095	85.1114448808779	76.2533853403813
RDH10	124.469290554848	279.001128345613	153.711194034581	131.738693662183
	200.566335168667	487.749060801066	217.848539722853	202.360546931172
	138.036631806718	180.930509520136	170.475212920685	365.723799716137
RDH11	598.404003732481	247.074756460224	331.533249823589	309.698059657254
	306.174148874454	305.554059609771	288.923207993626	555.044139654886
	578.601842980701	493.513764839058	501.817654561915	429.329962597147
RDH12	36.3649677956953	47.1332119496722	41.0356368374708	44.7980740332174
	45.8051846088552	41.4508241771315	45.4799270968969	59.8760452220989
	36.7267557061938	42.8936990772838	35.2339574411711	42.2577689927563
RDH13	130.506891299903	174.905877478501	155.018308238778	82.5279746006378
	222.985386635178	116.17887995398	178.306763765612	181.298709635609
	212.250918463598	171.043935516593	161.526970033915	177.019082240886
RDH14	714.532923535126	481.905052451245	371.513106715598	255.284866561352
	449.701353531924	468.98857415608	507.307494640785	655.389317052689
	348.757322819568	423.989018031638	368.660803187338	428.729935028911
RDH16	40.5654775358427	38.5252456306656	135.323750661937	39.066284740632
	51.1368583672022	42.4580504587581	42.4939802311136	59.3164315859919
	53.838484549134	65.6721629145797	48.1352470945488	45.5800840647989
RDH5	49.8472708021525	54.9392038576957	62.9313387640547	77.7973642829228
	43.7517118200398	126.578693258328	63.928488869459	53.7378346199838
	81.3858672064773	71.1607965028029	65.5386366902998	108.599492114105
RDH8	48.2910530887214	43.8495248991589	41.0356368374708	44.9370339275041
	43.3332476888305	51.6053353177789	50.3519150282938	48.272324215504
	40.6957787921451	43.1839109702714	43.5710871617107	43.2776458914333



RDHE2	44.436995101921	41.159706131351	42.7303139017786	41.5464765641928
	36.5393857306744	40.7616966228404	36.9355798143571	44.1311654985682
	42.5406888281114	39.0648733099061	41.2598458726002	48.7814131120945
RDM1	43.0462952354436	39.2542963855807	41.4613628725541	39.9697332660833
	59.9876575158981	40.4359177791566	90.3983812495242	92.9747592911324
	52.0228313532986	40.5571841955033	39.2542963855807	39.5418280570561
RDX	168.492959515167	146.133951379664	375.354746298695	182.52420078643
	360.43303227067	199.501451042641	62.801431502597	151.190816985164
	198.360449141425	131.083141370546	178.306763765612	136.456679728935
REC8	81.9258201510475	141.611097024526	94.312912693545	112.039388952208
	58.9875400392427	66.0411740221276	62.9165938167938	66.6320017520888
	53.5847837163876	62.3997407955361	54.9765783642973	58.5478485621444
RECK	78.4590546118913	45.8669209716694	48.4890615340603	60.9379216295576
	47.7508139534968	143.053774297331	40.1613888954735	59.220967994972
	42.9413736814915	110.684033203048	100.02732841841	79.0039595317374
RECQL	76.4637616585578	65.4206801651661	55.094385444315	82.5279746006378
	64.6374507338031	81.5782824513693	68.3419511055057	74.5654028199926
	62.1271781951319	54.1090536870282	52.902043370862	68.6518463768502
RECQL4	108.022329297132	106.762097616497	54.9944485073259	
	39.1706564265495	100.114114765033	44.1737502492846	112.113501370522
	104.704892803169	92.1817062395346	33.8984830800739	45.1432412071268
	40.8681871019812			
RECQL5	59.7179445506128	60.6080172588224	63.1852348689647	
	51.6974465478564	65.6003544901554	49.4157684139858	76.2562837208441
	79.2314952301621	64.2174369755376	73.8949517122417	68.9347693115553
	63.1944558106132			
REEP1	56.4553747079294	42.0709558258414	43.8495248991589	58.3475983630509
	43.844855336215	562.258108316474	57.2758638871082	88.9038123445083
	38.7298222155532	231.198764780818	262.579533452771	221.972553229362
REEP2	37.9387791625384	35.4484652445078	34.4716904283753	34.2080003860523
	37.0526522140242	44.1737502492846	33.6696565339534	39.7509165247419
	29.0303154053123	38.8507804383261	38.4689132737495	40.1700117452801
REEP3	60.3381680822012	62.5528124447176	68.1780382173625	44.0451487108213
	60.8550020364269	68.9562915755919	59.5205055437765	51.4360013601805
	79.4528447794527	47.8207974930031	53.6334631215581	70.25295977615
REEP4	140.961217055867	89.4747568145717	118.358996104366	70.8835636550472
	83.1614238528477	47.0940613507321	85.8154958329408	72.8378863017531
	110.559251404688	154.149426842591	124.512081978396	76.2533853403813
REEP5	439.106576928682	515.856807472321	499.356036793973	533.468347491982
	398.43592055172	657.031980628955	417.086922265732	388.661268904002
	903.756866967447	1186.06822787922	1178.52115916913	1236.32289322872
REEP6	213.799316520531	209.497482517298	353.942271533457	60.1837189855762
	487.261132702908	75.0310858627394	279.175841990291	689.483531595728
	359.296873000994	234.495626550751	286.243476131448	146.389547177092
REG1A	38.2083710281545	39.3999056968598	37.7384958256497	43.9282059368202
	37.2567512265363	43.0860383229288	40.0052661202207	39.6474008369935
	40.3316153483289	44.0409178714232	39.4410515050885	39.4490233720848
REG1B	33.9561816279577	40.7952353240579	39.0775870687758	45.0798408927912
	35.7973685350741	36.4986986135769	39.1539892144371	39.3709357615493
	39.0775870687758	42.785429206422	42.170702295259	39.1553169409075
REG1P	36.0144420013819	40.716553247236	36.178547300352	36.5393857306744
	38.3561682218911	34.8956628705329	43.3262148375525	39.7509165247419
	32.396635964353	34.3674468322242	30.3383368296776	42.357910063876

REG3A	37.8386378737561	40.4359177791566	37.1643693306382	37.7146582037126
	38.6213341190836	40.7616966228404	37.8877750141557	41.6916508480321
	38.9496515344837	39.9948390976317	39.8184668132023	40.2669497398702
REG3G	38.8336427948187	41.3610369241157	40.931294690669	40.0322420615846
	39.512606833112	42.281606728072	41.1886975241176	38.2182800228728
	42.992884918158	38.0078357808393	40.7725311293918	41.0657892043496
REG4	39.6609238036815	47.5647821785529	39.1799070031819	40.8681871019812
	41.2740822675592	36.8059561571675	35.0305278582179	41.2551966132486
	37.9273653326866	35.195364621675	43.0971787292711	43.8575940017119
REL	45.4799270968969	56.2000979702695	65.0656365694468	67.7121534934164
	58.3564461855595	48.1997158668729	64.6446465846487	67.644244440455
	55.6175144078115	47.0797760763156	51.7538628098347	59.4171001203919
RELA	79.2665546280232	105.902612356755	93.5717680539357	120.068630086702
	102.49785018292	90.1080159649841	130.506891299903	70.8749669449099
	114.78317743597	65.2361525412756	77.8669914727921	88.1733775711738
RELB	92.9323002425821	94.717335243904	87.8724689898823	188.533240079423
	103.080153415433	91.4446109489387	99.5844079573552	90.4512650366645
	108.815245119101	51.9547984751408	60.3431719501866	61.0025829061063
RELL2	50.8388984085636	86.3888090084564	76.5699943825825	64.898351831341
	99.3596089438084	41.0582900711341	38.6243997507646	51.2623287419357
	52.4539007817929	44.7958122466628	43.7585538437696	41.2437378488025
RELN	43.9309845324767	45.6948619492056	38.2593044488288	42.1273928203021
	37.6119337673806	61.6702707724448	39.7162631015511	34.7569642218174
	41.7627910693483	46.5650556481721	46.7386599624801	44.696023817801
RELT	39.5185194094434	38.8533207843827	34.806104801006	41.3027031037343
	39.9167409853774	40.5281496800812	39.4600924554505	37.6557714476853
	41.7627910693483	37.6623366050401	38.1307780730585	39.2780515621926
REM1	50.7390160399184	46.4861258030402	47.5673419710251	53.0284011078097
	36.9702228618069	56.6172748471831	41.706879587091	43.4544762830742
	39.2809305246091	42.8936990772838	44.3763859390287	43.2776458914333
REM2	50.9381343674699	53.0383634135393	46.5650556481721	64.3746985855249
	40.8873907150245	38.4330755397458	57.4047331041592	41.8417024632349
	43.6670755115848	39.7835513496873	44.4688999098904	47.2131144508464
REN	39.7576136507593	39.3999056968598	44.8872784170036	39.7411455670172
	41.6806984441849	40.650742261428	38.7337086062875	55.9303347977781
	40.3316153483289	42.1622837416589	38.745552403895	43.4709415392696
RENBP	247.676607756929	149.213844580441	135.527591897994	670.958499409833
	112.721024337362	450.271658272512	310.763904671301	561.855286945959
	68.6379135603075	119.095094052197	126.79509061532	99.2432911346944
REP15	41.9407041937973	45.4143854024453	39.1799070031819	43.6726153508978
	42.7982502551634	42.9695585740813	43.6753843488695	43.0390857698452
	52.9482338979681	47.9056710878325	46.6442692119997	51.2318935933116
REPIN1	231.472806936915	227.567182783564	174.905877478501	
	145.936763882526	348.964065997095	133.41667178516	178.188675055821
	147.269661124015	344.133384411423	241.599353653369	192.085063824686
	185.474249522831			
REPS1	55.7246872330059	47.087835967892	53.2046867327331	54.1240583139871
	50.2163892855092	48.8744644207821	54.1707158323527	47.6952179922944
	52.6561576154021	58.115198353247	57.8111054584154	50.8999542937724
REPS2	53.9634127270611	52.9603588177082	51.0539624358342	71.9805290614073
	49.6641575194943	47.5085546268398	109.943883439481	102.899135663993
	77.9287386697519	77.1767494799711	66.8188271427672	80.958999459468

RER1	140.677730827458	168.307676704652	166.488589768213	135.836577310513
	179.522572239758	134.489077146096	234.495626550751	185.771041814711
	162.540906501584	169.723009455614	157.7623351008	110.345465371645
RERE	266.323732730581	236.374695859748	170.475212920685	158.57392852619
	159.973746908596	315.960715273629	290.710970844525	317.245171206724
	191.09175268141	444.169882251299	402.978328664331	270.394857925086
REGG	55.2182004838121	53.9275079525238	55.3122077514658	50.2163892855092
	42.3685136297603	308.025419469334	45.4799270968969	44.0390019242862
	42.4540072551568	116.67447696188	81.4702220063796	92.8006484232438
RESP18	40.148780650831	38.7344853699576	39.4710743516517	
	41.6564075217517	39.0564222526273	37.7000400506818	40.6750540874299
	42.4580504587581	38.4344387289956	38.3092241935352	44.4688999098904
	33.0217499673686			
REST	47.8249696958403	45.2556760873335	49.1067959632109	41.4273122914951
	58.037539503209	45.2852528185486	48.3411413510851	51.2623287419357
	48.0163377492228	39.1621898366355	47.0110068985119	45.3763275588341
RET	45.4799270968969	45.1694246393676	39.6037514046494	44.604338271769
	42.7431359850339	39.2679765937101	42.8149277408658	50.3452972893313
	40.6533975461148	40.8970401536578	43.3645386728573	40.9683275553869
RETN	33.3307770183871	37.4540772310118	38.0452862258803	93.3216420803293
	46.3150221024046	44.2607789091176	47.2927436772465	34.5886782974123
	40.6957787921451	40.2112371512838	40.6373400186325	36.6603338274678
RETNLB	36.1232327599945	46.2286164776607	40.7620472083159	
	39.9697332660833	42.7107928951766	35.2067831864574	38.941855825269
	37.6557714476853	36.6312676076142	37.5343260962758	38.8507804383261
	42.4607795638552			
RETSAT	103.356071080819	87.3385669984704	90.5216273844682	
	78.1583955490018	74.6833250738044	104.80882886573	69.3468840908665
	141.830305704504	89.9789975503195	80.8593396441328	86.6798536307388
	105.382126899524			
REV1	176.594203350958	166.652850759559	204.251854342995	122.758873982957
	148.198469375575	192.112101000423	145.267770598988	152.824869071575
	179.581456201363	257.761541860837	249.246628143531	312.154320305976
REV3L	50.6473771879221	62.3983214098965	64.3312319756553	81.5135916455124
	59.8102324370568	103.343354834837	67.8919712859031	79.8264217848103
	59.2566572428546	56.8201201798712	67.8570354010492	62.0967404944031
REXO1	102.25509551881	117.239774193934	119.291755076832	96.0770202999531
	192.95410840632	73.2751502965172	116.74427460886	115.995213598177
	88.1910986077499	74.2379710965903	79.5743379965984	72.6182747525443
REXO1L1	53.8856501960117	38.8336427948187	33.8558232866797	
	38.2041059863839	43.004943518025	41.7627910693483	36.8369172900902
	33.6816578730693	38.6322728994674	36.4651112441576	45.7328341667151
	39.9519547348106			
REXO2	869.879392791086	546.287195443189	584.724083441601	466.935292808402
	706.914069768466	1224.80240464583	786.57695312967	716.434968700383
	532.981045084589	531.36214636517	474.155196153863	1019.67015337432
REXO4	140.853812988562	87.4273245333478	65.5820437889838	70.7202372217584
	107.549325444455	97.2865629929716	154.612425659555	127.418173390084
	93.2557602398938	132.710335836559	150.723391206253	129.336439341458
RFC1	81.1350396749303	79.2525964926483	89.6313467455698	78.7450149191851
	289.472303440614	145.492831993859	104.821285642918	82.5344501505114
	118.044483475719	147.735538100363	132.205423909251	106.425939266957

RFC2	63.6767189846426	68.5251167137806	63.7744603935682	54.1240583139871
	82.6983700200815	59.2643906275025	68.4380822448123	57.445796273665
	84.673375308972	46.325232414659	52.7466456080101	62.9364422691302
RFC3	48.0201377454632	62.5861902146526	51.8583668268401	44.8727287473605
	124.965915196815	49.1786207920603	73.3042538589134	49.7309743973184
	86.895648413144	44.8522313252892	46.972521499515	44.6946363672948
RFC4	177.494605794577	118.439721088864	111.735319884512	100.100720553498
	292.247095517604	111.877209777434	244.343381048643	167.16650846037
	186.67069792963	71.6694991209816	65.6010220593397	101.463033319045
RFC5	90.6805895192707	112.220892096054	83.0534943004588	57.5437445697293
	119.167027972122	78.3488426553071	159.359051158123	99.406307365363
	137.831070407907	67.1926218405833	72.5153335566211	85.2598847559951
RFESD	46.8712941728147	48.6795178347248	57.7825648989174	56.1780366332082
	44.5092684716474	55.1987351219665	49.3854238365325	51.3748919916683
	51.0062122023297	46.7646877499666	54.7883681830995	68.4598819169598
RFFL	63.4323398447015	68.9833517108866	59.0590113926295	80.5237920647059
	69.9144520559912	57.2350830635912	68.0649030501515	105.965906809429
	94.9831937714438	66.9549941973099	70.5704019848974	76.5758364080953
RFK	52.3660712483179	46.4385386401326	45.4865173433646	47.9915414951747
	44.0977148249302	50.560825686187	47.5963750520409	44.5029690493211
	43.8106375505041	45.5776159432079	43.5258090162298	47.6938628797168
RFNG	135.00141569592	161.910748720932	212.622278823808	103.67004664951
	220.938982373755	151.831767769522	188.887559923238	127.694844372277
	181.235112961883	150.396608064863	164.097531361519	136.613915120582
RFP	83.0534943004588	58.1027665533767	96.7948977485109	74.7732045170597
	115.827601697699	63.1091746640396	137.547711779867	139.436084808369
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RFPL1S	34.4896350146096	42.5660695551615	44.1070537445005	
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	43.6753843488695	43.6670755115848	42.7275315121163	43.9063490244748
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RFPL2	31.5599106749655	39.0102066700839	41.9666541498638	39.066284740632
	38.4540849632254	36.4986986135769	37.0564573649223	35.4526946152955
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RFPL3	39.3709357615493	36.6968906669565	41.6079958749402	43.6726153508978
	39.6535880152834	47.8636003588181	41.5817737564592	45.1714698794331
	42.1594905198929	45.0155543555707	45.8180710486329	42.4607795638552
RFPL3S	41.9407041937973	42.6450179841129	43.8495248991589	
	39.2336402665402	46.9058511192313	41.8613406887824	43.3262148375525
	39.3709357615493	41.6340461942423	40.7620472083159	42.6366765186182
	42.828737648529			
RFPL4B	40.4639532172338	39.2542963855807	41.528370959196	
	37.4642807402741	40.1978874031072	43.5416683728269	41.1507980856436
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RFT1	42.9104454767916	40.4359177791566	36.5474283500601	42.4580504587581
	39.9697332660833	36.2768299545794	36.8369172900902	45.3872406432794
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RFTN2	85.7983996395757	53.6429962450784	54.5191471810265	90.9106103192162
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RGAG4	41.5421429082231	45.6533175604486	44.1452943804044	40.6892234267786
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RGPD7	38.957687788868	42.1607322031054	38.6005272730664	35.9521941716188
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RGS19	165.29964739949	205.898127436939	185.72957253374	503.529187388654
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	45.3763275588341			
RHBG	45.0985088502363	54.2924642952939	47.4740726032707	33.6816578730693
	42.269054475455	42.2577689927563	40.0052661202207	75.656434170689
	55.7522234735038	47.9056710878325	47.2134341420411	48.8670821164567
RHCE	43.632365631458	40.3946758935842	41.6977706798234	40.4967168818294
	40.4639532172338	40.8970401536578	38.237657348649	42.6913548400127
	42.5864346233886	44.2580151149956	42.7775752471711	41.1868052124344
RHCG	42.1537476443423	35.0222940937513	38.0452862258803	35.9521941716188
	36.4434672195785	43.0860383229288	46.1634822993009	75.2101993995344
	40.8970401536578	46.1390887492649	36.7283081422707	41.863927676552
RHD	39.3709357615493	42.0709558258414	42.0621425894624	42.8235313007746
	36.4434672195785	39.3841861812262	42.4939802311136	39.0620487644635
	37.1820543575123	41.3321861371202	42.5426057453993	37.9607839934735
RHEB	481.145001682177	625.805967352327	461.394007153992	547.729200972776
	748.913487947791	856.790359133679	694.590958116425	364.534123862511
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RHEBL1	39.8662795144616	47.8400694856726	41.0356368374708	
	36.9912468186322	41.3755760434934	44.7804080899431	40.5585676679482
	38.956280281655	46.581796165231	42.5664883002833	45.1432412071268
	37.5556299264699			
RHO	42.3433931248155	34.9262464079777	45.8844325913247	38.2041059863839
	43.3332476888305	36.0306975524309	44.2166118829877	41.4508241771315
	42.4540072551568	45.4614234442527	41.3553369544097	39.5418280570561
RHOA	979.468753716758	1294.42501356365	1211.8832855325	1480.95754707554
	1005.45493369789	1621.89443989657	1189.22631004243	922.047328788961
	1195.24078948059	1317.29255644089	1031.4414268329	1521.20630233299
RHOB	114.288115730578	263.21493129287	207.943044411392	185.677720870442
	142.273273748244	525.917089808641	283.747865829282	400.327164003217
	82.0081006332668	225.53019299714	198.360449141425	299.665413950641
RHOBTB1	40.7084119829585	43.9783383422823	40.9868109608686	
	41.9620007529243	39.8264418617139	38.2971553419489	39.6080759138364
	36.4952603984796	47.5810366106247	40.6022003765153	40.040778349137
	40.2669497398702			
RHOBTB2	65.2001674269291	55.6323803479191	73.6323065529916	
	43.8002456102021	47.4548471240051	54.2503023961401	44.2166118829877
	47.2009420656854	51.5229124652769	64.8549209064366	68.878562323012
	72.5346469941833			
RHOBTB3	347.829279462722	406.964801954621	971.856840043688	
	359.889643461047	517.216393517181	570.204236909398	262.779883562966
	361.023743912857	268.047342640491	489.622327794168	501.148339791372
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RHOC	751.150916058018	295.061449024268	457.860665614779	452.797096652556
	395.457351443921	748.372940917543	366.915943380617	519.775555680262
	738.059797123491	509.463928291526	543.640122689871	637.565156571985
RHOD	164.047379890821	112.375316615894	117.355761277966	100.344513700137
	154.111066539468	108.961145389101	185.924923239764	280.968337220318
	270.922452389109	157.121355906194	138.23147386089	117.626009607247
RHOF	51.413025495745	45.7317208802318	47.2055133646385	51.0175677516029
	49.5666074434383	46.263826584899	43.9450023643394	33.7818132446042
	42.0621425894624	37.920964499903	39.3667161654772	42.0424641526302
RHOG	415.364456363434	381.533380474563	377.409970666607	1070.52156560795
	280.075938355178	347.829279462722	323.374628445744	243.15571937138
	280.680953068339	268.613247119583	284.437758089699	266.702252514277

RHOH	34.8099089553046	40.3384318592985	34.5718473203083	49.1786207920603
	35.7973685350741	39.2248354955045	41.8315602975157	42.4580504587581
	33.0463640202858	36.3612409063792	37.1059647239814	38.5279745308203
RHOJ	67.9065649240898	55.6735944873518	82.4900927793125	105.790224260281
	59.135659721231	162.049698241573	40.7376840028647	60.847641921163
	42.5406888281114	81.3895045947915	74.8071157013401	62.3997407955361
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RHOT1	113.351710503778	118.32905874786	117.948047796034	136.998739859195
	123.455270940015	145.391705645319	122.514153407264	91.7227477250701
	139.814194128548	104.886608171525	109.326279686847	118.428477744376
RHOT2	163.20801480093	335.818251279914	504.281506941044	203.353724675525
	245.489660195494	141.043326064913	201.360008430353	127.213248611204
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RHOV	43.9309845324767	48.6447083765118	46.7508829977587	39.5050383901884
	53.0419743379342	38.5252456306656	49.6872467499977	50.7364620410977
	47.1744296124496	48.6124127998952	48.6767028205398	38.6454098044474
RHOXF1	42.8036731479932	32.8881500803623	43.401782064778	
	43.6726153508978	43.7517118200398	45.9266745571724	53.4921736109774
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RHOXF2B	40.7609952437622	39.8695929627783	39.1799070031819	
	42.357910063876	41.9842695818285	41.7256940298128	41.253645578517
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RHPN1	73.2842501003097	58.0218262176065	64.1777305915695	43.6726153508978
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RHPN2	862.031722874406	167.49597550111	155.174579191838	83.5895816521251
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RIBC1	42.5534565507139	42.3550738181144	45.3974838013476	44.6131679221578
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RIOK2	131.380698046552	103.707931766117	141.154520472188	147.961677716225
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RNF219 87.4335749014848 95.6662924228901 77.9085946827079  
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RNF32 42.466333667839 40.5852276210998 36.0306975524309 41.0219290963778  
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RNF4	107.034189847828	143.13189461696	125.197314240529	124.156774983746
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	161.768763813052	108.806649898122	116.74427460886	161.008205823493
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	46.3150221024046	57.1752846228778	43.4544762830742	60.6706478075023
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	110.074666148474	100.499763255098	94.3537052300317	119.512426152446
RNF5	97.0254711947754	75.5034623354897	80.3060865378414	64.8154690917175
	88.4819048592858	96.3976093220249	100.139490974785	73.9624143741222
	79.4528447794527	86.4114854104675	77.7714622826402	76.6094442444074
RNF5P1	229.547114945412	196.623560874725	188.582370265555	
	149.139710097196	195.654315886452	259.456935785521	242.58992925232
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	42.046575509735	40.8634043028528	43.2645805835667	38.3194261431961
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	826.490051619826	559.9670724278	592.010988342149	513.266895252699
	685.386956092142	586.508419046212	527.439095170064	666.816487335088
RNF8	74.5886835786452	63.092106057211	59.3709786862962	49.6479308322777
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	62.0272989884264	55.073022935193	53.1505787220552	66.0516224379323
RNFT1	81.4269715766354	101.832945816193	95.2915739972533	100.168016285684
	126.360723656793	70.5699797830702	93.0538726751588	68.4659783447092
	97.0348634204639	46.7646877499666	51.838002904753	67.5047089908724
RNGTT	205.772128732705	125.794379028627	146.997252473598	229.159869771704
	102.993620677265	158.156217755244	166.553853424708	180.53214143537
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	214.369365247268	427.363555286404	225.827961496781	165.093395508014
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RNMT	409.151984783973	299.240215762404	304.718140992378	370.150839052727
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RNPC2	47.9175508887533	56.463481075522	40.4070046183108	53.3967242431461
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	47.9035532886869	44.4652605017595	43.844855336215	39.9519547348106
RNPC3	50.315768338317	51.119812302881	56.3834889989413	59.0262390168156
	51.0107745412152	58.3387916574158	53.7423898357583	54.1731035633439
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RNPEP	125.997088252817	120.221914344372	209.099378471892	138.581471125405
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	140.187433247353	120.274848052394	115.299308625328	115.622641633992
RNPEPL1	49.6241203903354	51.3800036046133	49.8344973836834	
	58.7338159410728	40.6723334103791	56.8505380943422	52.2476631126873
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RNPS1	342.146013966482	412.421643885499	516.704027135707	284.351747562807
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RNU12	39.1590964332473	40.5400384479766	46.3411353377615	130.274451794636
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RNU2-1	38.5648843914189	39.8695929627783	39.1799070031819	
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ROBO1	38.7270975453573	45.4771738245609	42.5406888281114	43.4410741327254
	39.5595233162192	43.647594238679	42.3074504864935	40.831207953647
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ROBO2	40.308802735799	38.7344853699576	42.0621425894624	38.4540849632254
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ROBO3	84.0388582916959	72.3297091475814	65.2670315837785	65.524821699432
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ROCK1	45.6517320730042	48.6795178347248	46.614092935749	45.9441733841041
	44.3557408297309	55.1547682957918	42.357910063876	39.3709357615493
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ROCK2	5297.71706629059	3818.71752181269	4569.48246031279	4916.82166008511
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ROPN1	39.266565827316	38.6414316877471	35.9305494063137	35.6928955245309
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	87.5074297754031	90.5359675350156	83.5149142053137	96.6957892186886
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RPAP3	84.4422623834916	101.383978726419	77.6385786739426	74.1068645821427
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RPE65	37.1485601150873	43.8495248991589	33.8558232866797	36.5393857306744
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	123.841740274811	138.895316905243	226.235985918654	104.821285642918
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	217.976796656266			
RPRM	46.441301934328	68.6804583979297	37.9482157381008	36.3604951341921
	54.4586176399381	159.835690229505	176.594203350958	48.87875862356
	80.8728961146267	84.2960453806012	206.768099707991	77.1059855034406
RPRML	49.7827734675743	43.9421822132391	41.9666541498638	39.6292788039793
	50.3713170502557	46.263826584899	47.4439407315335	39.1652965788406
	41.074824727477	41.1222709786153	33.9478220100351	42.57175366709
RPS10	8937.3846214861	6309.53691418065	7323.77427153966	6356.05807792831
	7785.77078492993	8349.59691588869	7980.71309230447	6027.02412617194
	6938.87250165681	7393.77508374057	8349.59691588869	7785.77078492993
RPS11	3818.71752181269	8441.71894028273	5636.93532853955	4381.51418239047
	8827.37298329149	6258.22561934986	4717.02689540013	4717.02689540013
	7127.13565491501	5112.4354472796	6606.35767508139	7022.41612496714
RPS12	8441.71894028273	8827.37298329149	8630.67463560037	7562.42822724655
	8703.02873382565	9938.5091387622	6089.64191751349	6089.64191751349
	7681.71833395626	8349.59691588869	10072.2414399735	11410.3307451176
RPS13	1393.24135330226	1991.4199819544	2551.57660786358	1726.90584784425
	2101.59244895554	3153.71394627237	1061.61186520958	1559.50766982801
	2215.01815680371	2611.32405374107	3202.8848520816	3869.93390477952
RPS14	3602.30252142918	2272.91548405176	4503.77675488367	3726.73487426505
	3634.98300564068	5387.08056045279	2944.3433949897	3854.42494497831
	4259.50675863393	4617.45430247751	4752.94498024732	4368.11345948444
RPS15	1549.93897368117	2337.7738990994	2354.00192115549	1634.61795848352
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	2101.59244895554	2374.1766901821	2779.37660132136	2300.20602168385
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	2672.94421680196	2513.15722262176	3217.83121827744	1511.33844030783
	1956.75875151802	2272.91548405176	2672.94421680196	2354.00192115549
	3562.96193568469			
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	12770.8282719641	10072.2414399735	16661.6081002448	11795.0477101407
	12770.8282719641	10910.7672404363	10617.4323014458	9938.5091387622
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	5387.08056045279	4344.25847766877	4128.92158369026	4036.89580181979
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RPS18 3153.71394627237 3282.4852236415 2830.73694055758 2024.4791883541  
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	172.451522479253	195.836475280084	207.275014827939	253.910836731947
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RRAGD	173.603999265239	71.8576824255215	54.842638106265	626.570239685127
	101.383978726419	266.178061771978	223.801865347687	99.2432911346944
	219.527698657901	121.712800273272	186.477689350702	176.839214683647
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	147.841274204532	89.8035133597498	89.0684909049451	140.369714831352
RRBP1	502.67939538729	372.239177888445	402.571146447946	588.972273484465
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RRH	38.7537364570873	40.3384318592985	40.8420925848403	36.3604951341921
	37.7576900881741	33.7818132446042	35.9058393060637	35.2642250366721
	32.396635964353	37.1275334308172	38.5668610487033	38.3291713594599
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	480.13416648493	456.757277476069	855.602941621804	736.846933148564
	697.57030127315	427.679475038106	480.13416648493	509.879213331349
RRM2	85.6170780640867	107.413918714848	85.271985416622	50.8567345921473
	178.881586334601	63.7818442618767	131.808634405319	80.3860547572521
	111.643323610073	39.6719190054379	41.0050831223107	40.8681871019812
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	47.4699236780425	51.3351387089044	56.9320717885002	61.7502624458447
RRP12	119.591054636527	167.014274808063	129.938114164087	157.095926797414
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	268.265540230814	129.550925624841	228.29142882275	179.342338803631
RRP9	71.9062462001972	94.3229189690855	63.7744603935682	64.5347406608537
	171.501864800548	69.8832723783498	94.1289383735162	71.5062409407193
	92.5512757064631	56.685925255591	72.768998788927	58.7382738968248
RRS1	270.600852806342	355.00914527669	199.970127219451	94.7283425282671
	469.30167430316	301.357530757236	229.992809034971	307.550936236018
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RS1	41.8409927585705	41.3610369241157	43.7630587657205	43.074472921841
	41.1868052124344	37.0180934800573	42.1607322031054	37.86982638952
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RSAD1	69.7442393277127	66.8693882433359	55.2141529491512	62.1776700757427
	75.0665411373616	50.0748292497578	53.8687221233237	71.5062409407193
	67.235655687817	94.8742116922003	74.466989900636	70.25295977615
RSAD2	108.928854330744	76.7710944291287	63.3544794716167	94.9785931907153
	43.4544762830742	51.8103411703261	53.1884505015411	76.9373289454707
	48.1174861108648	54.3554233228353	47.8284278211109	41.2437378488025
RSBN1	238.164418453962	175.936150174315	166.910579215196	252.775631043952
	176.064476306748	215.68113524702	182.49650467392	150.985239447761
	295.848968688724	383.00934152588	314.36962447353	281.141138830497
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	94.080489738662	85.1661952927159	103.343354834837	82.6381941930783
	59.4674205670657	81.552417816742	68.534940191185	69.1945249877407
	78.1623301184313			
RSC1A1	55.3153799233744	78.5174639327946	61.1076362129586	
	53.593974682612	68.6627996695828	58.5530199658661	63.7721358300879
	159.603518169388	74.9179396623258	90.6805895192707	93.1564463081702
	76.3824005526731			
RSF1	52.5792653122861	42.9358255168086	38.7745734037492	38.4208429103799
	48.8381507187986	37.3799542961839	39.0458123429605	41.1575777497576
	37.4540772310118	39.8873706855774	39.6403089864678	43.4709415392696
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	40.5710637884029	39.2985791324641	41.4742337714895	45.4757965005055
	47.7086093893038	38.4187686307607	37.2892641289258	39.7411455670172
RSHL3	41.0043775553254	42.7775752471711	38.941855825269	40.8681871019812
	40.5235471987417	42.2114134935898	41.6466169548846	39.4223544019653
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	631.110081413363	526.146757036152	530.853153115366	630.53864514662
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RSPH1	44.6231541342	43.683792219729	53.2046867327331	41.8778873678551
	46.6397391251762	42.9695585740813	52.2476631126873	51.555506218204
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	40.0322420615846	40.2449343247539	40.650742261428	40.8714654152472
	45.1241645678646	40.2739700860114	40.2579040125416	41.7272875295469
	42.5271877237235			
RSPH3	86.2021418088902	100.616027485975	134.271727318694	85.7983996395757
	75.0665411373616	86.915098846441	81.0331497830643	93.6124140212565
	73.1215732923523	87.0573871033894	109.677588309718	108.558977253184
RSP01	31.6557652929457	38.8336427948187	44.696023817801	41.3027031037343
	32.4181238410234	31.8228237796461	36.634024014558	38.745552403895
	40.9901805728485	41.5435611403119	40.2649309204478	42.57175366709
RSP02	54.6235981131919	52.7948184519106	43.4709415392696	48.856176220627
	46.0493141231657	69.7677752398541	56.1463616087682	50.0802438185974
	49.8472708021525	53.7554360529143	48.7502645382856	49.434568584642
RSP03	81.9258201510475	58.7111274254142	67.8010199320754	127.789065386943
	65.3933030211114	319.596352961751	64.232967574797	68.4659783447092
	62.9922928277769	153.966227068697	87.6098790075242	115.229070906222

RSPO4	44.2718517563299	37.8685585043426	38.195965820384	38.2041059863839
	43.844855336215	39.6609238036815	41.8799523546812	39.3709357615493
	39.9777866059804	43.0919221375514	41.4860822396574	42.4607795638552
RSPRY1	350.278532614563	316.327885002562	383.705244574204	
	346.285308869994	409.811889288372	308.568617575909	280.402165030951
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RSRC1	100.765131355505	145.819204020818	86.4154945670734	94.4501786945034
	121.023370640285	91.1271533616476	167.602045390279	157.281394920992
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RTEL1	48.4614401417022	45.9027267631224	46.5172622801553	42.1679276329916
	45.9604707098953	45.9994850850293	53.4010079725504	42.157627240486
	46.8873421271259	42.785429206422	43.4709415392696	44.0299389687796
RTF1	62.6702927225656	59.0709442090059	47.7737810047679	57.4595416719581
	62.3233491851723	55.1037284831588	69.3468840908665	59.220967994972
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	45.9104478407175	34.6977013306396	49.3854238365325	44.9977782988116
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	77.2778958631233	83.2240772671045	71.940968073473	87.3870406334559
RTN3	74.5065528806984	66.6332042895961	76.5699943825825	138.436822676252
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RXFP1	37.7384958256497	37.1685072112618	34.806104801006	39.3750969348308
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	41.2740822675592	42.2577689927563	45.6042625176633	42.5435283762933
	44.4395580493118	44.8997235283254	38.8507804383261	38.3291713594599
RXFP4	34.4896350146096	39.0894172982439	42.2577689927563	37.5382094267692
	39.9697332660833	41.3553369544097	40.5585676679482	35.4526946152955
	40.2274522635576	44.8997235283254	39.7342718293432	42.6758568421347
RXRA	566.77872642437	1147.19483787501	401.817698574441	556.728676214581
	769.685677484067	463.527266972118	662.848386826617	533.820505121067
	560.413725186282	1541.9572099378	879.708199333257	1045.20336057833
RXRB	67.2437599548936	92.8951148347802	83.3826639718546	72.6824533717231
	72.4060089486729	77.9085946827079	70.0567634568557	58.5406981871153
	72.2527203451447	65.9189023794337	75.0704619826557	75.3271272345679
RXRG	40.8163035350222	40.0527893189096	39.6037514046494	37.651298468202
	42.3685136297603	42.5660695551615	42.7982502551634	40.4359177791566
	43.6670755115848	40.0599807618105	37.92304440150891	42.5379139224668
RY1	211.109957714241	194.703024752864	134.185571685143	183.77850568836
	115.408418935236	241.901039109114	150.562062400737	204.68542226859
	169.251790128723	131.258204302177	186.477689350702	199.776860110557
RYBP	153.310447977094	281.906398109158	356.727720725014	469.553640187203
	291.94914449218	344.44626908553	544.946796643478	338.164006403
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RYK	180.80065212092	303.93332785291	245.489660195494	128.300809076274
	435.901460958456	359.628703006773	255.636379050741	203.559653641339
	256.995917821765	248.691595276298	277.588692595406	421.611594456877
RYR1	62.8091467605856	43.4667754607514	44.4311655729487	60.4646208319121
	80.9160262677505	46.9515828775339	47.5963750520409	61.3077641493507
	72.2120805585702	43.8943892311541	42.911855821602	47.0832527687464
RYR2	40.0557788909923	39.6123051184545	41.0356368374708	43.3078542962968
	44.0451487108213	49.1013967533186	44.9863726205428	41.5464765641928
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SEZ6L	34.1336988442837	46.6996902348633	35.8265993915844	35.9521941716188
	33.0463640202858	33.7818132446042	35.1307934330047	32.1260264272477
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SF3A1	60.1705241170421	81.8648220673828	73.8227449336903	85.1847490113446
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	83.3322777515023	82.5344501505114	77.1900613562529	75.0617828888881
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SGSM1	64.0759817636265	48.1829653238565	43.7085219318425	48.7646976789783
	56.432280646473	67.0489032883986	44.5390641547628	174.058845828966
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SGSM2	1224.80240464583	947.656220635965	2054.64068255575	433.320698413679
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	460.162024551004	903.756866967447	901.793120584383	795.381998233245
SGSM3	97.3929166450379	108.991044950132	137.831070407907	90.2790229242453
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	108.815245119101	129.951091959262	122.924027019519	144.928534157065
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SNX1	65.3071954258488	73.4331096065698	53.838484549134	54.9919060580109
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SNX10	74.5694657001572	45.0115870036541	56.8595344107711	309.293546994308
	70.8749669449099	63.5738862549306	59.1774824918359	50.0526763693329
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SNX11	136.883475451494	92.2686401307542	83.6000059297772	124.738024302128
	101.383978726419	102.559678338485	108.007227281411	114.113460279317
	132.946528291039	111.877209777434	100.616027485975	96.6957892186886
SNX12	46.0920218698606	54.3554233228353	44.696023817801	56.7927450229377
	61.1216330559316	47.3791873993182	54.339958888486	47.0940613507321
	63.955655956484	43.7303813515864	45.5707650534259	51.7833333848627
SNX13	84.3850767822327	84.9182861692273	93.6591201235745	77.7973642829228
	105.825228126465	73.0247140074919	58.0139597055449	111.845105854608
	97.1271615802556	70.9702772728923	77.9085946827079	85.6038071277319
SNX14	64.3061875690881	100.883604376864	93.4180535865914	78.5697118992327
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	65.0567596131122	84.3946154220195	82.5225075943931	99.6946103680372
SNX15	44.1294459089314	43.826317180678	47.3381845358719	46.0228732507872
	56.2937283136959	48.260931742163	50.5252048155459	47.8947595316832
	50.9612733880858	50.2108280478333	47.6388115824631	48.6447083765118
SNX16	49.906758177954	53.3175733763272	56.7776874358774	78.4289643729837
	57.8039717833131	78.1351673826829	58.5588286084726	42.5435283762933
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SNX17	461.83420090894	444.618035487523	559.296669575666	543.807654287436
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SNX19	74.2151462073098	110.746059249478	108.512469038407	114.876346000655
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SNX20	41.3785995857154	43.5873188565519	45.3974838013476	52.7924213633885
	43.0723817756832	43.6670755115848	45.0283997415478	40.6663433492193
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SNX21	54.0478584942486	50.8114699212931	46.2625470410195	41.6564075217517
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SNX22	41.3387790895716	41.0678614026819	43.9450023643394	39.6292788039793
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SNX24	52.7570461169969	39.5573415356949	44.9758339877851	43.7410507935043
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	56.9097893863465	46.7182294568603	46.5952288260503	52.1918130336397
SNX25	66.3950913662841	56.8373628733077	55.9459886217809	58.8224410806741
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SNX26	81.3544712349691	99.2824152850072	201.616017553422	64.898351831341
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SNX29	82.291097567232	66.2366101899356	82.9449579428926	102.971363152434
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SNX3	1726.90584784425	836.472724085903	872.305108096296	975.544591158047
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SNX30	115.221134337342	102.993620677265	91.0443726041992	153.153205095999
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SNX32	39.1590964332473	39.6123051184545	38.6727842796202	49.9014504704021
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SNX4	173.100153934025	200.174103125152	129.938114164087	119.253559091088
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SNX6	109.415404315559	102.282066142307	117.355761277966	132.205423909251
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SNX7	57.9141744971757	70.1831787109201	85.5135159896819	51.949834638817
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SNX8	143.383133346874	90.4512650366645	74.4508307047509	281.016474354764
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SNX9	36.1232327599945	35.3307157989724	41.6079958749402	39.9697332660833
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SOCS6 35.7012997405508 46.8236022402545 35.3649449469275 41.0726336841311  
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SOX15	59.5000730792772	57.2871072823547	475.008345432596	46.3203995372658
	51.1368583672022	184.701183332784	56.6537562775715	67.3976855661302
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	46.9739160257217	48.4890615340603	46.4753015651202	46.6397391251762
SRM	249.704644191338	348.450810225807	232.019748665806	234.727123301682
	739.541009338849	364.628602969366	344.985739524681	326.357036514613
	301.79813401066	178.4681248137	226.926786963011	154.287396750021
SRMS	37.9387791625384	40.8880530359822	40.8420925848403	40.8681871019812
	42.7982502551634	40.9506062495231	44.9863726205428	37.9837233601316
	41.5635499110307	39.4710743516517	42.911855821602	42.357910063876
SRP14	2506.05102956991	1888.71160604243	1689.77066894108	1707.92349760322
	2164.51925341969	2611.32405374107	2621.65272077828	1868.51164332659
	2663.19221471348	1275.78715071615	1393.24135330226	2488.32876359853
SRP14P1	682.227514643175	629.532332373083	410.329983506955	
	458.351940464467	516.848416430243	866.712228831149	743.463635670141
	550.990544834571	767.489657259345	384.401256392893	425.692369974286
	757.257495810249			
SRP19	245.489660195494	215.955919625615	219.527698657901	351.700618429121
	190.921576470336	271.857378677296	217.226686591407	248.744491123257
	185.360921731157	131.779333469955	163.360824752796	220.938982373755
SRP54	280.338993896267	321.550107822925	319.596352961751	389.364650157102
	206.234676343851	248.438376348617	243.843941346211	271.813877560354
	253.802852066439	196.844428284247	242.282363793567	337.259932087655
SRP68	481.145001682177	422.474427987338	420.401914084346	353.598144765197
	411.73316510051	515.007705025879	532.465842165105	457.352802877198
	524.451156145427	569.511773053233	471.297503316471	446.613670519745

SRP72	99.8231023149756	135.436347750159	114.224091812993	163.844659359002
	159.416887501941	140.264270771578	104.341160312305	124.605379715077
	120.881290860109	108.111248374368	96.4278951689874	109.339287213971
SRP9	601.139894733857	1078.86166154061	1000.65752290829	541.631969808467
	952.16345035163	717.997180920384	1089.08276262641	893.185203928127
	962.079396754147	615.838713743621	689.228901128857	1000.65752290829
SRPK1	317.325808319372	369.877521477669	403.428042132639	202.360546931172
	736.078559195579	160.853643241489	453.260719561292	244.070778149931
	470.231929311877	260.766438659762	235.075347885884	422.237766234202
SRPK2	46.0336705108419	66.3558126170575	68.4261608261522	46.2528333282885
	68.1040271620925	58.7404123614695	51.0889740983457	47.5529788356555
	59.5752464532208	52.5522545249206	48.260931742163	50.4847465816184
SRPK3	40.8681871019812	54.0461131287999	47.4740726032707	43.5627649099623
	52.5645416722441	87.0685571351947	48.0283573444179	52.3068458655445
	44.0519245668737	55.9283039581662	64.2174369755376	54.293880614303
SRPR	209.967057706137	302.79352975792	287.565588186962	294.51382100172
	336.490083577377	193.981651711507	223.970572361745	209.038077542654
	265.320447667174	202.667616796658	199.776860110557	209.89649461562
SRPRB	822.822769402853	361.632211543977	495.26603220907	587.060466667911
	942.247437385029	480.660242705293	421.791344753995	677.668455095171
	466.935292808402	472.159979716705	479.507453857294	494.162646055732
SRPX	206.103296228683	66.8693882433359	58.637422084759	154.019005732316
	89.4747568145717	1073.84987604662	52.561573697155	119.670948133232
	56.5094373275922	410.979796414875	621.012072500314	454.551748488397
SRPX2	318.995164994001	282.035361446993	190.854807132673	145.676955166566
	100.645556491457	85.9636350040248	46.8613212048981	110.869341159607
	209.31241212773	230.649032296928	320.13475752314	902.691776563423
SRR	57.50915811428	46.0023068797812	43.0971787292711	41.7614975630362
	50.8875036861067	52.8421046802739	45.4799270968969	39.9576138799997
	37.10170285405	47.0055981216687	39.2542963855807	49.8253396161069
SRRD	55.4004611309636	50.9643363406241	57.50915811428	62.8201270538435
	76.6914642534934	56.9320717885002	84.0691608193405	65.1637149462661
	71.1894129030602	60.4837400912239	59.6608518093582	63.5693267269002
SRRM1	487.749060801066	503.358125540411	727.181489302632	495.705224781189
	621.012072500314	560.413725186282	610.678132881994	900.517711546397
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SRRM1L	103.139459009593	99.864496342189	147.945429978177	
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	121.336830564295	106.042585997437	76.011923854897	104.626873082138
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SRRM2	1796.47241860175	1580.58484708669	2650.09507972593	1184.75786736273
	1041.84536202049	1093.44570094368	1129.19103016599	1377.24483375075
	1285.49870339222	2138.23653387331	2018.28984520892	1343.66876893729
SRrp35	38.2083710281545	41.7337506166619	45.310660704531	
	45.0798408927912	44.3557408297309	54.8265655909623	41.253645578517
	41.7419877611072	40.4220196471124	37.6383530120621	40.723990462047
	42.8864415494484			
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	272.545033107746	149.475318376458	114.947362505193	126.620595729562
	121.270627995568	102.044838876428	106.897106266912	132.59650761791
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	43.844855336215	37.8102105794655	39.7576136507593	40.7311497914871
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SS18	107.754432832706	166.097017297742	150.709301569371	111.845105854608
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	59.5080588072694	49.9547657591437	55.2214187655851	50.5810338885769
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	1132.19026676901	2978.46032143413	1045.20336057833	1789.07186722972
	1205.82775512007	1325.2479053325	810.382224368065	863.082385199922
	999.13039066242			
SSB	214.691909801388	252.313870846326	208.743876555152	161.48562926756
	290.261616334371	220.454785391748	182.273794635176	191.116764060948
	106.70211644918	188.336316985251	188.912691033518	245.923368125413
SSBP1	492.13077103258	487.065758294354	467.764770176415	513.109067557976
	643.491217668415	590.139974503603	473.102747358971	572.43115808475
	853.464809072841	329.677454924062	370.495645380436	614.088027946471
SSBP2	103.010279797396	82.2766822827861	97.3929166450379	129.951091959262
	97.0055689383756	239.885284409329	131.645714321903	92.227126770051
	235.764999941441	175.771191968095	137.802147212644	172.39907939484
SSBP3	82.7351935657355	66.0479079234982	54.9944485073259	60.8662233098324
	67.1278109419819	87.3085516526362	65.1496567852393	83.5767232665142
	71.9369353731849	68.8167148906225	71.1607965028029	63.1852348689647
SSBP4	85.9636350040248	166.097017297742	121.023370640285	97.9497090233081
	210.880198736298	133.998375673985	130.960165577212	106.51488068372
	120.995347517172	104.587564056763	110.09868737254	82.5050369860039
SSFA2	76.7820250461545	54.6793272901524	66.737740728688	68.4261608261522
	61.954674965065	78.812106589086	41.0381860307445	49.3880946790306
	60.5608545741456	52.3304586399695	57.0154839296649	60.8662233098324
SSH1	53.7507429765038	55.6323803479191	58.112348043634	55.2214187655851
	52.2089306840125	53.9517841438975	48.0283573444179	42.357910063876
	41.3803269429468	48.8623729374733	56.4873776344986	49.904979214379
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SSNA1	200.566335168667	146.355277438643	102.980622026276	159.12163104195
	144.799432299339	157.109085253328	295.014183084118	152.17335005192
	193.875712862166	195.790389809892	223.850148640071	157.979422616649
SSPN	96.6833301748676	67.8208976798364	97.5849495690144	65.3191216270241
	50.6470461863549	256.941243394182	45.223075311113	76.2258667419953
	89.7862835647016	224.109805046747	153.177725521199	126.115065200084
SSR1	667.837116137964	425.522158941437	467.764770176415	703.315796616275
	728.468482500452	488.908231529696	252.134800295199	316.831358204198
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SSR2	194.827750623463	160.425627898607	170.932645135423	208.897032780128
	246.725921565571	182.685579297058	167.872060678879	135.323750661937
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SSR3	82.6983700200815	64.8254097948745	62.9967097752591	75.4466520363487
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SSR4	1601.52194699063	2220.90215179682	1829.30985071028	4299.4451139256
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SSSCA1	56.6086202928268	67.2649356062263	67.3469281984384	
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SST	35.5179217192467	42.0709558258414	34.4716904283753	40.646702696033
	37.2567512265363	41.2567470068038	38.1793598983615	56.0496524902806
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SSTR1	41.187562301961	38.7344853699576	39.0470836345045	37.0273924363983
	36.5849073973352	35.2067831864574	36.4098694708483	37.33030683349
	36.5474283500601	39.8873706855774	37.5343260962758	36.449101775775
SSTR2	196.247893540766	102.490465676619	103.545764794149	173.925818790068
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	99.9896394343368	206.190699642477	232.879882989322	191.896416838806
SSTR3	52.502055890816	33.3069622728735	40.4882741869718	43.074472921841
	41.0885562160946	42.6575535390785	36.4098694708483	43.0390857698452
	37.2810767789306	40.7063426028871	41.2598458726002	36.064718696392
SSTR4	42.7150227340364	41.3610369241157	41.437237454134	38.5252456306656
	40.6723334103791	39.9397419279057	37.1643693306382	41.5464765641928
	35.1155486926999	41.3321861371202	43.3085358214154	42.4607795638552
SSTR5	42.6036491382658	37.1685072112618	38.3166554965434	43.9282059368202
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SSU72	1570.45778081591	976.566026758227	1323.73429724066	1445.73674428909
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SSX1	37.9387791625384	37.10170285405	38.1972934752396	40.0164662097472
	40.3452320167286	38.4330755397458	39.4859911554583	37.0390589468421
	38.0766847742504	36.5297181616759	39.4410515050885	32.6597849238806
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	40.7779767565889	38.5252456306656	42.3324995669176	40.2794475062599
	39.1396772832431	39.7419744486802	42.2467808807513	39.0820394178305
SSX2IP	52.5792653122861	46.8236022402545	46.8267540220952	
	47.9915414951747	48.1473938886239	58.0910843932181	54.9765783642973
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SSX3	42.175859643566	41.8559558586378	40.9784333688086	40.137818555383
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	45.7538339834602	42.4064160495357	45.4454982426581	43.092198986295
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	43.004943518025	40.650742261428	41.4186558780356	41.1575777497576
	43.3262148375525	42.7275315121163	43.4424616940528	38.8495095797881
SSX5	40.148780650831	41.5132248356707	39.0775870687758	39.5637454855233
	41.1507980856436	42.4580504587581	40.4359177791566	39.9941474864076
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SSX6 45.5758521267508 40.4772513262052 43.0971787292711 43.4410741327254  
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	133.541341560868	158.334581991361	186.620669365322	149.515611848932
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	43.4544762830742	39.4462710976337	41.1742244762318	43.6753843488695
	45.6061814448258	39.8517950672116	41.9430737035925	39.0536056496869
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	54.9919060580109	53.3094843669564	40.5090849993014	38.956280281655
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	49.6203214143464	39.853866204927	67.8233625051884	52.8489752025797
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	37.33030683349	38.9006788676407	41.0057887014368	37.9230440150891
	49.3087627580849			
STK33	44.6231541342	39.1982470626863	42.0621425894624	39.5050383901884
	48.8381507187986	67.3469281984384	57.2758638871082	47.3791873993182
	59.9770720847728	50.6486940895674	50.7903824729818	48.4535991392809
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SYT15	52.8928296360463	55.4919197421746	78.5325880060762	63.7417623042104
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	51.9545473262296	68.3419511055057	72.3388488936832	67.6625413926778
SYT16	39.1590964332473	39.8695929627783	39.3709357615493	31.8431345631453
	39.2608760193011	37.7000400506818	38.0598374201407	39.7509165247419
	43.9450023643394	37.7315666632629	42.8263096141654	40.1700117452801
SYT17	45.0985088502363	62.3102413989199	163.280931300437	38.3166554965434
	51.1368583672022	49.4157684139858	70.8835636550472	72.2610650652674
	106.219480656782	155.855834721836	150.362006499825	135.012695962236
SYT2	43.0930293831497	40.148780650831	36.3604951341921	36.6501141438378
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	41.5635499110307	31.7992509287736	36.131485826118	37.4554876386402
SYT3	42.8036731479932	41.8848959280916	51.1347974668251	42.4580504587581
	40.6723334103791	41.159706131351	40.4359177791566	38.8495095797881
	41.863927676552	41.8613406887824	47.0110068985119	41.0657892043496
SYT4	38.7537364570873	36.89524015739	34.806104801006	48.1662933382789
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	41.4636047919453	40.2112371512838	41.8168470823451	42.57175366709
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	38.3418933808844	45.4614234442527	43.4709415392696	40.7704587752083
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	45.6129956328415	46.7157196805535	44.5258896753408	43.2098046633648
SYT8	150.685575301101	388.132295362791	1364.06060391538	47.0874209746031
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	131.824854999638	588.736435715365	439.376432049616	194.570513601724
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	41.3755760434934	43.7630587657205	42.4939802311136	43.0390857698452
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SYTL1	76.2368668439875	352.339572553069	636.367246129079	108.025082988807
	186.395673402867	57.4777075615651	97.8309399470621	74.383456365584
	395.634889855838	257.662291702982	260.279110870904	175.876518898179
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	108.928854330744	71.2324892408462	49.4456171013459	96.3741876853801
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	57.8039717833131	112.984042589704	132.689951767479	138.972884942374
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	39.859345745831	38.8336427948187	45.4799270968969	38.2782436497441
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TAF9	47.2218282357336	46.7279104095328	47.8263530599296	41.1493778437527
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	49.6144181894187	42.4594149893798	39.6833800000587	64.531467526747
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382.538365722661 350.106705208362 397.520960156896 315.163147652199  
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36.9060997041453 33.7883338848419 39.8184668132023 36.7762265039864

TCF12	127.836645375421	106.276392548097	89.9340376539354	99.1565755621214
	108.400712514743	133.877825732645	115.530384771495	115.328304312071
	119.965950077259	99.9951025176909	128.923092916744	116.374125502825
TCF15	48.3814421939888	43.3458769998118	56.410923639913	38.4208429103799
	69.1862663389904	55.6242009731278	45.3597029614942	44.4031868028216
	55.4030910454028	46.325232414659	36.0481934423077	48.27609330316
TCF19	46.1673159982664	42.5674652784208	42.5838166730113	40.3180310664156
	44.20782151793	44.3648993568405	52.561573697155	42.6036491382658
	46.3203995372658	42.0217776707284	40.1422119692495	40.9058811573481
TCF2	44.9398051863989	54.3820590274321	50.2869791217819	35.9925262106468
	45.0782075423781	38.486220880314	90.1964013788257	74.5173894803763
	66.2552876795581	81.2359429678503	66.6332042895961	55.8775622338124
TCF20	161.008205823493	87.8081021392626	88.1331756561668	92.4251917286941
	111.438294720953	74.9006142438341	91.8251275769679	99.5192591352063
	100.774098314706	104.672760332135	96.5030525416431	84.2728210732532
TCF21	67.4846787600629	64.232967574797	52.4485219671976	47.3574589211166
	71.136135376296	394.073743195755	38.8804689450815	75.854888525664
	44.4395580493118	150.362006499825	217.617227445082	91.1926678904253
TCF23	44.5282181324797	37.8217989841918	41.528370959196	40.5484717678957
	39.7568367479301	41.0582900711341	39.2533668167483	39.5466975353131
	39.853866204927	35.6208308220005	39.3667161654772	41.863927676552
TCF25	579.038638774301	596.384327208699	1359.9708539999	556.417356025042
	479.079946537291	612.441960343995	603.224267841548	509.004054793277
	588.854342793207	751.150916058018	704.15545332905	556.728676214581
TCF3	158.862722884436	167.678403380953	93.1349769600388	77.7973642829228
	161.573327074375	95.8905266177905	122.316617618658	138.486962379511
	190.099949303905	100.849815617918	83.3729277601518	89.1771576058145
TCF4	113.866742186841	117.165519915808	112.727277807495	282.603767561794
	91.7629175712824	201.764909400617	64.232967574797	120.286733441947
	56.3441077510744	126.319731178054	178.188675055821	78.0586153423713
TCF7	41.3910975991529	40.4681810792098	38.0958223740111	39.5748670524951
	41.0608773166058	39.7590256232088	39.2809305246091	39.8016018354453
	39.3506426665347	39.528971131769	38.2246384684884	39.7742005651286
TCF7L1	63.9851732498913	43.5182502375207	51.3268475761593	
	40.7481155008596	44.9936360641969	62.3497263884167	47.7390230243778
	43.5544347011646	43.2761454096265	65.6721629145797	57.8111054584154
	45.2783024981315			
TCF7L2	42.5193208629123	66.3904351698776	54.7855575216687	
	58.3475983630509	74.3523005665671	52.5330333302271	95.6697427870979
	53.7378346199838	45.0017158586743	51.8412522234186	73.7060605978536
	48.1627097465883			
TCFL5	137.897231677665	138.655669174533	99.6101168315098	126.911056987607
	263.125290391542	224.412339736769	73.8313212063649	116.434267173815
	128.391264770998	144.954155897343	186.759757179509	256.80504454312
TCHH	66.5500089527674	46.9919960628953	46.1653991089885	55.6481366056639
	54.3116862772198	46.6872654833579	48.6395795163502	48.7814131120945
	51.5888395924843	46.5650556481721	49.3901004211918	47.2131144508464
TCHHL1	40.6559419616644	35.8227939208521	37.4642807402741	
	32.7960913111995	34.806104801006	38.3418933808844	41.706879587091
	37.1317006162938	32.9756367838345	31.8890957468737	32.9879066304034
	31.372171135652			
TCHP	51.413025495745	68.1040271620925	70.9377012403023	55.4180794172794
	62.5106969730855	73.4820932957859	66.5422130374814	55.3122077514658
	75.0310858627394	58.5087296620514	55.9269493191353	58.8188963227059

TCIRG1	108.242021650278	141.180682718758	169.664184704618	
	318.690767783738	76.4212570031171	97.2535496140648	136.806769571262
	108.083751469991	113.113062709739	128.365609268093	165.220069268347
	107.055174400714			
TCL1A	37.1485601150873	43.5873188565519	40.1985790927248	39.9697332660833
	41.1868052124344	38.1169703906207	44.2166118829877	41.9315419791594
	41.1742244762318	43.4885245598939	36.43924066428	44.2527566343661
TCL1B	42.8036731479932	41.4508241771315	38.9790184198145	38.6414316877471
	36.4434672195785	33.7818132446042	39.9519547348106	41.5934628038429
	34.5023764006976	39.8873706855774	42.8742421276144	43.8336862998829
TCL6	41.0871827071116	42.6022652963326	41.528370959196	42.2496337895968
	40.2903961886288	42.0082685530808	40.4995052849302	41.9890955144165
	42.992884918158	44.4216649723137	42.4580504587581	40.6301588195752
TCN1	240.6614822416	11795.0477101407	1109.17675353971	113.528908699366
	64.9072331703985	94.2678678253657	62.0404348860702	57.9713749600418
	555.910110984847	271.529471399941	227.535855856645	45.0035308952466
TCN2	119.591054636527	59.8102324370568	96.7948977485109	250.585851778133
	81.6486527718661	154.633672616367	91.7761668960824	73.5950442915143
	75.3222734438062	112.760972238512	88.2314365506494	101.627551729492
TCOF1	40.7084119829585	42.9020321355927	43.7630587657205	43.1847628331565
	44.9474751009842	40.8970401536578	39.5496902678788	43.7839209303388
	43.2761454096265	44.3334496376397	42.7275315121163	43.6177016821274
TCP1	102.980622026276	130.908206625954	100.597578643877	78.8968326770219
	106.454367084321	105.699748702315	117.556281726503	86.9709077763908
	96.6294773538052	75.4732674021193	78.5108643908344	97.6023731094756
TCP10	39.5676051939342	37.7384958256497	41.7364024833895	39.9697332660833
	39.3866822630357	42.1095407186921	41.0381860307445	40.7311497914871
	42.7606905460304	40.4570408590493	43.1931731665131	41.800198520267
TCP10L	50.9381343674699	52.2501726671381	43.6670755115848	
	56.4578213622965	49.0828761839116	48.9826868640753	46.4388841354122
	61.016921238986	56.6079099547057	47.2299678280724	48.042366934301
	54.3587260982091			
TCP10L2	41.0608773166058	44.1239711172417	42.8270038153139	
	42.6913548400127	39.6535880152834	41.2567470068038	40.6750540874299
	40.5158867964016	40.7847110517594	44.2580151149956	38.956280281655
	40.3691324547049			
TCP11	45.7356815244513	46.29198852834	48.6037684272115	48.665578118898
	48.5000946421718	42.750861693377	53.4921736109774	45.642304356051
	42.7150227340364	60.0372015630618	48.3847843498476	53.840976437122
TCP11L1	57.155499689994	51.2405397507224	53.7792717770978	
	71.7997882389171	41.7426502114261	63.4610447573417	42.22763273471
	80.0213594533301	47.7644661363247	54.4190527512508	49.8393069675192
	53.7442594289333			
TCP11L2	42.6575535390785	46.0323106800336	39.4250105372135	
	47.420942961753	45.2556760873335	39.5581166303303	41.706879587091
	42.157627240486	48.2123120250343	49.0841460667818	40.8225507267584
	45.4218947614732			
TCTA	90.6805895192707	83.9271508264168	59.6565330440648	88.9113618165337
	119.088986733238	79.6895408438974	130.890690835631	118.186590679218
	73.8800799416166	138.637058021129	97.9497090233081	61.5300817099814
TCTE1	35.9305494063137	32.8881500803623	36.0306975524309	34.5425384901279
	32.4181238410234	37.4782441311626	38.5066108855005	36.6452480995946
	35.4332080966594	32.90036444440608	33.4071187618571	37.3600014814388

TCTE3	37.55264801907	46.0713306971594	37.1643693306382	35.6027791404152
	38.2496050953547	44.6524308640784	42.9803717121865	42.2577689927563
	41.6616444147804	39.0648733099061	40.4504608195666	36.6603338274678
TCTEX1D1	49.3463416794995	49.4982025424177	51.5292723244077	
	59.6153684374766	48.6224651100733	53.2046867327331	42.2577689927563
	54.0507720792049	47.27543600687	48.7414853386615	55.854474649572
	49.6629259325705			
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	100.90948905426	201.360008430353	98.2180003781859	384.522115820048
	216.654612568853	286.243476131448	93.6787442149817	93.9018973330737
	132.257197568848			
TCTEX1D4	41.0608773166058	41.0678614026819	39.5118967430322	
	43.367124590178	38.6454098044474	44.5099734963815	39.700936357233
	37.6058760248614	41.2870505273664	43.1839109702714	37.7384958256497
	44.8872784170036			
TCTN1	99.8231023149756	84.1224653052549	117.869393694564	95.1423940686828
	145.083624161597	154.891160328731	110.422857502267	116.74427460886
	130.600539398332	164.735191308776	146.892027926888	86.0230765383602
TCTN2	40.9558083259517	38.8336427948187	41.528370959196	38.5252456306656
	39.7568367479301	39.132725377815	46.3057385979341	42.9301944191913
	34.9428206949566	39.3698811593364	32.9879066304034	39.0536056496869
TDG	218.245471601353	366.515210930763	266.634368304904	354.973265582488
	428.515605971056	241.486113826383	460.340300658834	336.904716156626
	419.360641528378	269.963186760811	318.069132873489	253.207750345072
TDGF1	37.4554876386402	37.3634897565502	41.8751578329365	41.3567204694281
	39.528971131769	37.33030683349	38.2933870238743	41.0844534776541
	38.7298222155532	42.0621425894624	37.3687900733549	36.3937388933751
TDGF3	40.148780650831	38.2263227947189	36.5474283500601	35.6928955245309
	40.5710637884029	39.3841861812262	43.5627649099623	40.1474543172332
	40.4997186069494	44.0409178714232	39.5399188536544	40.6614700944853
TDH	41.8409927585705	51.2405397507224	79.1649337367773	40.4359177791566
	52.3242437351389	38.9378717994178	49.8281348927244	43.0390857698452
	61.4842573582507	103.14577985944	71.4414688202373	63.2699016184868
TDO2	69.1641374421455	53.6741873729867	67.6373573669424	246.568253751149
	48.1473938886239	41.4508241771315	41.1886975241176	42.0847226073592
	37.2810767789306	39.6251842352088	39.4410515050885	34.5103248688777
TDP1	308.025419469334	178.060342847557	189.289063944393	252.949225605064
	135.92805172353	131.57403028894	270.947794977829	298.670959394883
	167.920131968611	319.248898194029	363.947777340854	271.813877560354
TDRD1	302.465485470899	205.378123452174	236.910422092851	267.29148042787
	199.294913752704	170.327588764719	259.769260154253	342.300139006451
	176.936216428226	439.241483765416	413.31638457585	322.774093041134
TDRD10	39.9697332660833	42.6939394537076	42.640829914102	
	37.7469621225553	45.4751076037511	43.9724628401189	41.1507980856436
	39.853866204927	41.7627910693483	39.5637454855233	43.1931731665131
	52.6922486991742			
TDRD3	77.2643026985097	63.0670482657086	48.6037684272115	56.2508140932179
	58.4383854340181	76.7791768896805	63.7721358300879	54.9919060580109
	59.2566572428546	62.6984594468418	59.0537479001842	69.7644070698124
TDRD5	42.7150227340364	64.4837166864084	49.5424425850549	42.9358255168086
	42.7982502551634	44.6524308640784	42.8684958525042	51.3472428383325
	48.2123120250343	50.5252048155459	51.524711857679	37.2810767789306

TDRD6	39.3709357615493	38.4330755397458	39.8299340037009	46.0228732507872
	36.6354013629791	45.3882138838137	43.1931731665131	36.3405039629059
	43.9450023643394	49.1928206164702	45.7328341667151	44.4475838947656
TDRD7	105.914573205761	161.844470327205	106.058751335133	186.64040927334
	89.2285288333749	179.09303345382	174.492066109537	132.3192754634
	134.218973300007	192.240593720489	166.608353896248	228.21982974423
TDRD9	45.7017023767682	43.826317180678	44.1915202657512	74.0093517743852
	38.745552403895	41.1090481599939	41.5817737564592	39.3113207075992
	38.7578265341627	53.5498255316009	44.9081227425497	43.9366081640576
TDRKH	52.2236479204029	39.6123051184545	47.3861758958576	41.8778873678551
	52.2089306840125	46.7800033479223	64.232967574797	56.0496524902806
	48.5792058061372	51.4454142248566	45.4799270968969	52.5752569429057
TEAD1	40.308802735799	38.9534635879195	38.8775560911841	37.8442841690502
	40.8873907150245	39.7394181011603	38.8775560911841	40.831207953647
	38.6322728994674	38.6835649080278	39.5399188536544	39.3789825717286
TEAD2	1024.97546870349	207.18510695093	173.582309251499	286.68367978144
	687.011162822211	595.790464730847	640.78586776574	456.023620287811
	498.608204176238	259.812381486915	263.765914589758	212.664574366477
TEAD3	50.6473771879221	48.9899488302637	44.8872784170036	39.3750969348308
	42.6022652963326	57.678188678075	41.8315602975157	43.4544762830742
	51.4413099192899	50.6486940895674	47.4630625313159	54.5921287593554
TEAD4	74.6776631832355	52.8796369426118	73.5541045639348	53.3967242431461
	85.2849531543957	72.5075777230597	64.7650773032999	50.007830364606
	73.7873098190297	48.1392888470269	51.3511088648386	64.863894209343
TEC	37.3463875295726	39.1982470626863	38.7745734037492	42.2496337895968
	46.0043807840705	42.6575535390785	37.0564573649223	39.9576138799997
	45.7452456977857	43.9450023643394	42.0750889188255	42.7782216342806
TECTA	44.6231541342	47.1332119496722	48.8941062980393	50.0526763693329
	49.8304479381623	51.6053353177789	47.5963750520409	49.2901038327894
	48.1174861108648	44.2580151149956	41.0808257270221	54.1090536870282
TECTB	42.442231667357	35.1224289925572	44.6032218589199	39.2780515621926
	35.6434124419782	37.9951997351435	36.197424053556	48.87875862356
	44.0519245668737	39.4710743516517	38.079222289614	36.3454320848591
TEDDM1	41.9407041937973	41.554942319225	39.991353369336	
	47.2009420656854	51.1368583672022	42.750861693377	43.4544762830742
	47.2009420656854	44.7058233759912	41.8613406887824	44.0409178714232
	44.7401523707775			
TEF	72.692416146584	78.4289643729837	87.6178717341967	98.5663841503803
	75.7464604972652	99.2749350936362	63.928488869459	78.6911549149983
	85.1114448808779	198.396715228812	146.691463448295	91.7906797118637
TEK	77.1111458359361	99.9752275166514	134.271727318694	268.121244731705
	93.1238695478498	156.69976952483	52.6510639680705	74.383456365584
	49.7336769474446	71.0619469948187	87.3815040456105	93.5928272702304
TEKT1	44.5282181324797	41.6466169548846	42.2577689927563	41.1886975241176
	43.7517118200398	42.4580504587581	44.7255207589606	43.4544762830742
	44.5303781239209	39.4710743516517	38.8507804383261	40.7704587752083
TEKT2	42.0532901689036	51.4413099192899	48.8100349749783	57.8277957325085
	42.6022652963326	51.4931742685391	52.0942589368478	57.037639245179
	48.6494451061637	51.7594352155304	42.0750889188255	50.1579724208315
TEKT3	41.7397731376692	39.5050383901884	36.769073068743	38.9534635879195
	39.4693871570028	62.7515429046888	37.9430145836712	42.2577689927563
	38.2215591930186	47.2299678280724	39.9070785037411	39.6352613956998

TEKT4	36.8072833828297	38.0226905622357	35.5220586859301	40.0698728584484
	38.0598374201407	41.4508241771315	36.9355798143571	36.3405039629059
	35.3227485563945	39.0648733099061	37.9946685306274	39.8497227447888
TEKT5	40.3478825593224	47.2770121962655	44.2405728317107	41.3027031037343
	38.5512429290626	41.0582900711341	52.561573697155	40.831207953647
	52.9482338979681	42.6793753550854	41.7272875295469	44.0451487108213
TELO2	91.9238405195899	108.542237471193	173.711189659585	57.2856683017619
	127.345094323724	69.1523164481201	93.2133061608764	76.7710944291287
	113.367264677544	94.4129246851651	105.197692490363	76.5411379733694
TENC1	43.3078542962968	43.3972849968032	43.4709415392696	39.5637454855233
	40.8371580087857	64.9498081060676	41.6466169548846	44.3557408297309
	37.6383530120621	54.8346842758068	57.4408006697893	47.8472928419101
TEP1	55.9249770393176	68.1040271620925	63.6334154351075	100.483113678344
	50.5110359971301	60.877229406755	54.1707158323527	48.7814131120945
	52.6561576154021	64.8549209064366	78.7260936224802	73.5599394565136
TEPP	41.3848620620968	39.5050383901884	40.4412246793572	41.4273122914951
	41.8503210829559	41.7627910693483	53.6446045619513	40.9901805728485
	40.8970401536578	51.8412522234186	52.902043370862	57.1752846228778
TERC	42.7150227340364	45.3486182278177	38.1421709520616	42.6913548400127
	43.1252272136667	36.2768299545794	46.7100796279384	40.7311497914871
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TERF1	57.7494596863439	67.0402749076279	74.5173894803763	44.0912522138779
	51.0107745412152	101.832945816193	65.6958831220258	65.0234989597222
	53.7442594289333	69.5645254789371	74.4259825158584	62.2878942799819
TERF2	162.272853632419	144.300051706447	206.337508331566	110.88526946931
	201.180226922613	163.827112371305	128.966814822678	139.645717741863
	152.942332679485	128.365609268093	155.795095438102	165.613176704286
TERF2IP	279.063292799015	309.293546994308	413.067407579649	
	306.746364062777	249.679512440891	267.782994219864	183.028254350275
	299.74710723735	199.687268345276	306.746364062777	295.430709655678
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TERT	45.8108990837624	42.810624012519	41.3366779545815	41.6045220683604
	53.3086645804786	38.2971553419489	44.2166118829877	38.1835938174625
	43.8106375505041	42.5193208629123	41.0050831223107	39.7844133452634
TES	47.4964755141472	47.6914221838216	51.7138050344355	49.7350276169552
	44.7829632472754	54.7869749455534	47.9525424951159	44.6107027295193
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TESC	46.9939712192224	2160.22713775462	1573.61108703981	95.3070802596041
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TESK1	286.178856785544	313.316269590367	186.866378606003	241.677456498713
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TESK2	162.272853632419	73.9376772899278	71.2246788429078	79.4528447794527
	100.645556491457	75.1674447943072	116.434267173815	254.066741436612
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TESSP1	38.5007204246293	39.5050383901884	40.301483914446	
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TESSP5 43.3638918705225 44.2105195734073 39.7411455670172  
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TFAP2A	76.3334723210842	80.6844261396045	234.359144097839	
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TFAP2E	37.3463875295726	37.6383530120621	41.437237454134	
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	945.065986430527	366.326747630465	621.980260052085	235.888544042065
	510.232992765054	159.359051158123	193.094756585577	290.524288545599
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	70.506090074243	63.4176152858138	65.7196733766698	53.9465584609317
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TFDP3	35.7012997405508	41.3610369241157	39.3709357615493	45.4634652319753
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TFEB	46.5549623118323	45.4143854024453	54.6051538001037	54.6089451252049
	34.7018263647985	47.2927436772465	38.8417151851134	38.6454098044474
	46.7760357462635	59.4309046716701	53.9517841438975	46.4499258373233
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	41.0381860307445	36.1028268208831	39.5847121472157	40.9058811573481
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	46.3150221024046	41.159706131351	42.4939802311136	48.6441988290952
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	47.8075998240396	429.854222129819	40.1235656101329	51.0724630072723
	83.2563086075874	164.462951076718	282.328238928883	107.799236230743
TFG	640.78586776574	444.320714312359	419.360641528378	409.899024157206
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TFPI	115.044790975532	90.1032802171477	162.272853632419	194.951677338012
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	188.408367998553	169.061093538895	192.470747766298	200.524777333743
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TFRC	798.515089763944	460.865101118125	550.100918659768	2854.82112538867
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	71.5345397102823	55.5887949773838	163.877163712385	174.985336606027
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TGFB1	35.7012997405508	42.1607322031054	43.7630587657205	47.0874209746031
	39.0564222526273	40.040778349137	32.7676164492555	45.7476095696859
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TGFB3	224.827414462257	66.1288889125299	80.0183739952818	185.28845113422
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	48.4916117779992	42.9090346219023	42.157627240486	38.8417151851134
	53.838484549134	49.5539622682049	40.7063426028871	44.2925355984056
	45.5800840647989			
TGFBR2	287.121456559795	338.72596574658	311.1022748407	
	394.437597863822	298.14782785085	642.211963248041	175.632783805966
	218.273094883881	201.027801320306	592.989860385203	663.904584382358
	647.868022835702			
TGFBR3	92.3659612653822	370.568550943181	275.611524861938	
	174.860894067053	352.600793906035	1465.08435775014	209.860757709908
	315.799449362526	425.895919304186	1707.92349760322	1864.63057767867
	1570.45778081591			
TGFBRAP1	60.9710783023013	102.053879707074	100.824660338235	
	67.474556589181	114.888828460086	77.1317865202676	91.5258329186709
	61.5000955267432	59.1223319112238	58.9069025298754	72.6731815563159
	69.6021553604792			
TGIF1	135.973016473297	209.038077542654	119.434418653131	184.377148097206
	196.096147690942	100.756165194192	205.449627031002	219.34503297115
	212.117653688186	85.9179359178373	93.2484615907966	147.043419185015
TGIF2	78.9028182143923	84.4596873416863	66.0411740221276	74.0093517743852
	120.465621774337	67.9306669919176	91.3607028449916	69.9709625205629
	80.2680308979464	60.2877434874622	65.8748459696377	59.0894921452893
TGM1	40.5654775358427	48.109747794187	46.3411353377615	36.5393857306744
	48.5000946421718	39.6251842352088	38.0598374201407	46.0633179231318
	51.6731332961917	44.3648993568405	37.9946685306274	45.9693232070002
TGM2	138.748233664345	99.8063480813138	79.3066495980045	317.127679512963
	109.310200749289	195.168348967505	67.3469281984384	121.510087314197
	49.5265949137207	115.853867920678	106.985301705486	236.178265404264
TGM3	44.8914371498528	39.9697332660833	44.4311655729487	94.7283425282671
	38.5512429290626	37.2686490268265	52.4111687156893	38.4540849632254
	36.4476883897928	39.1621898366355	38.5668610487033	41.0657892043496
TGM4	34.8099089553046	40.5400384479766	41.1367478979484	40.1804147506786
	38.6454098044474	38.4330755397458	37.4772922422734	37.5511560880902
	38.9006788676407	38.6454098044474	37.2018803984555	39.4490233720848
TGM5	43.8550481835503	42.281606728072	40.5289532121417	39.066284740632
	42.0709558258414	38.8336427948187	41.2040352443154	40.7311497914871
	45.9227107476843	60.920620198708	44.1478805895017	41.6550823405646

TGM6	39.3709357615493	39.8695929627783	35.6139301508335	43.4410741327254
	38.6454098044474	48.3686935595826	53.4921736109774	41.6466169548846
	41.5635499110307	44.8997235283254	41.0808257270221	36.3454320848591
TGM7	37.7384958256497	40.8880530359822	45.1569741609597	42.4580504587581
	38.2496050953547	38.9378717994178	43.0930293831497	38.8495095797881
	43.8482802038826	41.1222709786153	39.3667161654772	42.6758568421347
TGOLN2	309.022069786139	630.53864514662	351.188432232165	
	560.802447943839	293.258858033133	564.929183025034	400.327164003217
	372.758184542037	259.769260154253	454.402224020514	410.979796414875
	516.076634990003			
TH	101.036327583799	125.997088252817	56.3471340054074	38.8495095797881
	52.0583273941813	48.260931742163	69.1414574152997	44.9977782988116
	334.639325701194	77.1767494799711	83.9647518349407	98.0473811574767
TH1L	351.290929267326	744.080606078086	810.021622878441	256.675896425075
	789.511653564341	412.694325761831	810.021622878441	754.700295017212
	757.545320379227	390.331295238889	586.735744054398	446.37035118289
THADA	99.5058761858884	95.1818735488388	98.0864897427459	81.9504925867759
	88.6057390890775	94.1844708285913	114.84900130932	141.784776736918
	103.423003544792	94.1575209300592	116.388069891158	86.9924799927707
THAP1	62.8270556619309	60.3381680822012	58.9135553403521	60.0765286625112
	56.1806416223547	74.0995052892511	55.8019623191927	47.0940613507321
	64.1267046511632	53.4109882045447	58.0139597055449	64.1158872395764
THAP10	82.0292880742189	70.7702047405718	67.0421310720934	
	51.0175677516029	103.913834330352	83.955786676926	113.692418102755
	96.9880759408512	95.7194132679937	85.9910479975356	80.3500323413132
	86.5564881117807			
THAP11	413.31638457585	477.410937135204	602.726022292973	
	338.415128695208	512.255695437272	422.474427987338	414.539381761279
	324.126628444078	491.8684831079	388.661268904002	352.246108891022
	442.380936516984			
THAP2	42.3433931248155	41.8848959280916	42.3536549114165	44.6905691366696
	41.1868052124344	43.9724628401189	44.7255207589606	43.844855336215
	42.846832824953	41.7405682794166	42.7775752471711	46.1088006335399
THAP3	43.0001432913058	43.5182502375207	42.0621425894624	42.6913548400127
	46.5557478175976	46.263826584899	42.4939802311136	48.5681478665796
	43.6670755115848	42.0621425894624	43.844855336215	42.8864415494484
THAP4	40.2543341073001	49.4982025424177	60.7530213660442	44.550322123994
	53.8260140375214	49.3172204533818	52.2476631126873	38.6454098044474
	64.2174369755376	40.8970401536578	43.5710871617107	55.2449003905956
THAP5	39.9220998751503	39.1982470626863	41.4613628725541	39.9084621723809
	40.0599807618105	40.9506062495231	41.1507980856436	42.0494116081998
	40.7460990419215	40.7620472083159	40.1742127891824	44.4475838947656
THAP6	58.651329686676	61.6878176260761	74.4508307047509	67.1961800572759
	84.5572894783679	80.5478617156852	57.4047331041592	66.1288889125299
	53.3094843669564	66.274247400793	66.0282565447846	73.0333258448698
THAP7	63.7417623042104	64.120219344545	65.8028755495823	57.8277957325085
	65.9189023794337	88.4695322145032	93.3897477314201	64.8336014343435
	81.9504925867759	88.6905706130505	83.8637731385607	69.8505620106065
THAP8	42.0532901689036	39.6123051184545	36.769073068743	40.5484717678957
	42.9090346219023	40.6507422261428	37.7136011474903	36.3405039629059
	44.4395580493118	51.9547984751408	40.723990462047	44.3521099857368
THAP9	43.7585538437696	38.3322849790657	37.1643693306382	40.1804147506786
	33.5412189543102	43.9724628401189	43.4544762830742	38.3684202018524
	47.0804681460898	40.2112371512838	50.2203578628217	39.6352613956998

THBD	38.0089018744739	81.0331497830643	58.112348043634	154.509548705054
	46.6397391251762	75.1674447943072	41.9393838138203	48.5681478665796
	40.4997186069494	39.6719190054379	41.5421429082231	45.7562276914441
THBS1	1102.03940742413	655.389317052689	307.922754395377	1139.81870068001
	664.453262499828	1480.95754707554	173.694418385132	687.011162822211
	169.633672522325	134.152059562322	189.035121001539	986.40790007743
THBS2	3296.66056024983	384.280434953152	782.28158356937	685.386956092142
	1176.37732422904	432.669787408904	788.950470077369	372.239177888445
	59.4236178078244	2061.66570137425	2248.64628069362	2206.44541412808
THBS3	55.1306642449627	42.1607322031054	58.7382738968248	41.7614975630362
	53.1884505015411	63.3612993417558	46.0228732507872	51.2623287419357
	48.9931786790166	67.3308332069908	49.532546810992	56.9379721393904
THBS4	56.5094373275922	45.1694246393676	42.5406888281114	44.0451487108213
	43.1252272136667	54.2503023961401	43.1931731665131	45.3872406432794
	40.7847110517594	47.8207974930031	45.2265319826548	39.8497227447888
THEG	46.7704450730477	46.9578963946094	44.0451487108213	45.334106390212
	45.5198200633333	42.8598805316863	47.0874209746031	44.4475838947656
	44.5678064264717	43.7303813515864	42.9634662926872	44.1861590259178
THEM2	295.312692092025	192.732356915298	303.818507395434	283.88971280023
	355.7118155732	224.069916407012	708.839262759372	510.946850892298
	238.338646661062	161.109600577001	141.206849814363	210.843643231855
THEM4	52.5792653122861	53.6429962450784	53.7792717770978	40.0698728584484
	66.7426485694967	43.7630587657205	52.7002314230604	50.857522488428
	49.5539622682049	65.3377940117969	54.113533179847	46.0633179231318
THEM5	35.4287975493553	37.7384958256497	42.5406888281114	44.0451487108213
	40.0599807618105	40.3357777530419	39.7576136507593	41.6466169548846
	42.0621425894624	43.844855336215	41.3553369544097	38.4330755397458
THEX1	37.55264801907	34.15544299189	38.3166554965434	37.8442841690502
	33.2021437980841	32.9046688061235	36.8369172900902	31.5766875248365
	35.2143190355414	34.8137085420423	34.266241549578	33.4316681623175
THG1L	57.7877627794725	60.0601788842942	64.1777305915695	61.5515639412892
	53.6907197364586	63.4610447573417	59.5205055437765	73.0394191668858
	80.2680308979464	104.288073521816	86.2670415958076	74.8170892324966
THNSL1	65.0721641331632	44.6918600441328	57.6371756925687	
	63.4531374125233	103.080153415433	68.9562915755919	73.8313212063649
	68.9522412475296	109.241121384212	82.966263655525	61.5392012551041
	80.0381580139229			
THOC1	180.349984862124	120.825113658705	111.397578350396	119.39177524986
	176.064476306748	129.190555260332	185.474249522831	210.032782918825
	136.998739859195	164.462951076718	145.847014515246	158.853244260329
THOC2	80.7067505750848	84.3401431994754	88.5601339449828	119.015431849218
	107.490296194878	97.5736219666974	137.438636654385	211.596652798395
	74.6955454743937	129.887275668509	114.959624673123	115.861269747317
THOC3	158.195749606017	101.020328028769	204.710892826638	81.929796716054
	226.580055691897	121.120217132666	251.4927207704	247.843927763772
	192.171116215791	78.0006681166995	83.6438735616921	143.913007288353
THOC4	118.49449420132	228.254228465645	161.471040999844	152.942332679485
	221.972553229362	127.836645375421	298.771150048863	102.314704593905
	201.657389063895	48.4243229779413	80.2774079897733	90.4160198134865
THOC5	185.395460281034	213.590067519021	186.350104132737	168.288592321667
	183.77850568836	277.069127740648	230.142262693206	219.805214090875
	140.860068375212	227.817928402227	193.703214707909	164.312946712409

THOC6	145.30915313164	149.494335028498	168.640033281185	130.908206625954
	102.913039837094	105.414552529943	135.398193235699	67.0904616289706
	175.099998331811	138.637058021129	158.478919789334	115.676508349703
THOC7	475.159378115819	910.898566308567	886.397061577531	627.914461428624
	862.031722874406	1096.1705171588	889.638287212686	625.805967352327
	844.431085166353	528.840700144811	547.442608452594	903.756866967447
THOP1	209.281870980564	240.086349973689	173.49425401442	145.073599404007
	442.711822532078	158.532307373857	275.928723831899	272.022473793857
	169.144145421022	149.173801572239	176.687970262952	108.750364850147
THPO	39.5676051939342	41.159706131351	34.3633615460307	41.5464765641928
	40.2449343247539	34.0045980663271	38.941855825269	38.745552403895
	33.8558232866797	40.6022003765153	38.8507804383261	39.6352613956998
THRA	182.52420078643	47.2258994932516	43.0697338561114	54.3659493975064
	41.4273122914951	110.440072569721	45.9426591985894	48.5089868936195
	64.6629780915974	70.1347490781514	71.0369238830779	60.8161720561234
THRAP3	57.6285775590145	58.0218262176065	44.6032218589199	
	57.8277957325085	62.046151104685	56.9320717885002	59.5205055437765
	65.3019328668633	63.1944558106132	41.9666541498638	59.1443775199516
	52.8455400026194			
THRAP5	51.2851682978581	51.3084273211359	50.1860191642359	
	57.0629653735694	67.0163226819964	47.8636003588181	39.6535880152834
	65.1637149462661	48.5792058061372	55.6865353018811	59.6608518093582
	50.7487159427973			
THRB	33.9561816279577	37.2810767789306	32.8745892439217	34.1051821768421
	37.0526522140242	33.895835691032	36.08956004634	34.9580369221164
	35.0305278582179	34.2638875325204	31.0126568324233	43.5738557773903
THRSP	42.6036491382658	32.4552405279874	39.3709357615493	41.4273122914951
	39.6535880152834	45.1873487463472	37.830876898596	38.5457716679071
	45.1899271235974	39.7835513496873	36.5359455830388	34.6720534245631
THSD1	41.1090481599939	41.4508241771315	45.0017158586743	44.3557408297309
	40.8351751854504	41.400731343457	41.8887298788489	43.579462900311
	40.2669497398702	40.1179210534118	45.1846041469628	44.4004151500264
THSD1P	37.55264801907	40.5400384479766	43.1660110696573	
	40.7481155008596	40.6308525754377	44.9896851005259	37.4772922422734
	40.2770232552555	39.3750969348308	40.1179210534118	41.4860822396574
	42.1860813954352			
THSD3	36.178547300352	35.5999495928832	34.083122489162	36.9456005425764
	41.9495387255163	38.5642488933115	41.5421429082231	36.2539950294089
	37.0126425326534	36.7481940145087	36.7800683777849	38.2350720635382
THSD4	60.4593810615882	49.6203214143464	51.7138050344355	46.614092935749
	47.8075998240396	48.9826868640753	46.4388841354122	54.1731035633439
	59.0563795877672	73.4447529556358	64.6446465846487	71.2491135258076
THSD7A	40.3478825593224	39.0894172982439	39.0775870687758	
	34.1051821768421	38.1644569189523	44.4619248757502	33.8558232866797
	43.844855336215	43.5669306063196	39.6719190054379	39.6403089864678
	39.2469742642337			
THSD7B	38.7537364570873	42.0500582486532	36.5201388311834	
	44.4954892619459	44.4489662507893	43.7078399718247	41.3594868055879
	36.9355798143571	53.41889323316	39.8455060654531	43.0971787292711
	39.4830039788612			
THTPA	44.5282181324797	46.4861258030402	37.9482157381008	47.3574589211166
	44.3557408297309	44.9896851005259	46.5650556481721	40.7311497914871
	44.2607789091176	41.2276963324981	49.9338905397767	40.5703581862752

THUMPD1 94.080489738662 81.4269715766354 110.362432903746  
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 124.338989399317  
 THUMPD2 154.911548311992 96.2280884890067 122.531570028682  
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 111.773296155783 125.494065483032 122.702789229752 112.707612911654  
 118.762101740563  
 THUMPD3 59.8248482438562 66.9524703393018 55.2141529491512  
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TRAF2	124.37984507038	78.806097512943	60.6567691532561	87.114638423256
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	46.8954576545929	34.4716904283753	48.0211752672327	50.5188367542048
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TRAF4	63.1291723738553	76.889690218685	66.288032400574	37.1894304543751
	72.9154861179393	44.5544727111028	73.8313212063649	104.900627862215
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TRAF5	54.6051538001037	54.8979897528792	69.3468840908665	56.5402453093703
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	55.4452315601595	73.9376772899278	62.4077024344427	67.2437599548936
TRAF6	54.1283224883192	60.0219418084008	60.8942621888353	67.2968280876013
	52.6922486991742	58.0095518210499	51.7714254834195	72.207833811212
	55.6215767260208	58.4435847520801	57.6684494624163	56.8534370691413
TRAF7	61.1022920882065	90.2227706363325	80.4601303882402	57.2856683017619
	104.657817552182	67.6169355376864	62.3556396662215	60.3366440660852
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TRAFD1	189.47090669378	186.195424728755	161.109600577001	
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TRAIIP	47.0940613507321	46.9919960628953	37.2838080935695	38.8495095797881
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	168.11088055793	132.851109034738	163.360824752796	73.4853298204744
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	78.9361044544626	155.239308003808	114.429965793669	117.8523906126
	152.47776741936			
TRIP12	265.320447667174	173.977605406146	218.013913036142	
	274.445985892762	174.275409358652	180.065047496273	129.538159906075
	360.15483218921	209.87862540213	184.377148097206	199.480636964499
	235.682605856428			
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	63.9570596163747	984.650089846917	151.99110418225	435.325038193179
	281.774690337889	187.147252401703	42.785429206422	48.6184776976167
	54.293880614303			
TRIP4	198.979794834746	204.370291548631	131.882285871258	167.336256089476
	158.321459945365	156.864177272437	159.176229924883	187.560170529807
	192.291576499908	140.837788264535	130.64028226556	140.559370165331
TRIP6	502.205366225368	539.720977763663	674.270050283701	256.80504454312
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	334.438091900861	137.976238593619	213.073369426342	235.169335305672
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TRK1	42.2455707947223	45.1694246393676	42.3536549114165	53.593974682612
	47.3172462673426	52.4351670989268	45.8980298854198	39.1652965788406
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	382.050584680669	157.334378544568	140.01041112896	160.479699603187
	122.143519601825	135.62451026691	162.401599565682	157.750574478926
TRMT11	56.8615710057357	76.093116738739	67.2811786080606	
	51.4968903591058	64.0395697320109	66.9665871090772	66.6199412368667
	49.7748385529588	63.1091746640396	61.940656536312	84.4596873416863
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TRMT12	215.399634344016	138.655669174533	103.071727621257	
	84.8948024208923	174.64729344609	110.399579382196	111.202737864873
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TRMT2A	61.8529316708431	47.4076235350059	46.2625470410195	
	38.2041059863839	47.5647821785529	38.1169703906207	38.5066108855005
	51.555506218204	47.4699236780425	55.0016608333828	46.5650556481721
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TRMT2B	40.8681871019812	36.89524015739	39.6451483836089	
	38.745552403895	43.2484996523549	37.8102105794655	38.941855825269
	43.6434576713809	45.0997987980157	45.3530683538086	57.4078217542368
	46.0633179231318			
TRMT5	364.439669236186	530.996217072759	471.59454368268	444.320714312359
	555.727708387209	731.670315613547	1005.45493369789	590.709061039001
	821.922096305069	302.20349084931	367.685570437603	407.564154455615
TRMT6	43.4626049853157	43.4396866157171	43.5710871617107	42.1273928203021
	46.0977687311222	42.6575535390785	38.7337086062875	43.0390857698452
	41.074824727477	40.2112371512838	44.4688999098904	41.4508241771315
TRMU	72.692416146584	65.6010220593397	58.7382738968248	54.4586176399381
	83.2652824564032	49.8472708021525	63.7721358300879	65.1637149462661
	56.8622704143595	70.194061829681	79.0304119352941	61.2685222381296
TRNAU1AP	44.8378856799291	51.0612189196487	54.1637401903523	
	44.1483976313959	48.0234896130991	55.3812135024656	51.8667932650345
	43.1567024035183	45.5779686360641	53.5498255316009	49.3901004211918
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TRNT1	64.7766649630041	68.3234331335073	65.1757400078647	58.5406981871153
	64.1021292413458	50.543526404059	64.7650773032999	74.6572522248684
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	42.8036731479932	67.5503668962444	57.9559082408796	48.2220547806679
TROAP	131.738693662183	140.961217055867	94.6130003107132	62.0404348860702
	173.035987237848	50.4022543872993	191.631209717054	202.081933301612
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TROVE2	179.756604242873	150.583488352207	208.915145509698	
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TRPA1	34.4021554788966	44.3529919625344	42.8270038153139	38.8495095797881
	52.0583273941813	43.8582747295766	42.629412460409	51.555506218204
	40.9901805728485	42.5664883002833	35.7953070087288	41.863927676552
TRPC1	69.8712342353417	43.683792219729	47.3861758958576	53.3967242431461
	42.7982502551634	126.319731178054	59.9792284253187	102.24202987437
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TRPC2	37.9684178523773	39.9697332660833	37.5222959113204	39.4569929845912
	40.3452320167286	38.8336427948187	40.6216891610774	35.5179217192467
	39.7537274655115	38.3501188844251	42.2618615571566	39.7844133452634
TRPC3	46.5549623118323	44.6918600441328	34.8956628705329	38.745552403895
	43.5544347011646	53.2046867327331	48.0283573444179	41.1575777497576
	41.3803269429468	52.8928296360463	47.2134341420411	43.2776458914333
TRPC4	37.3463875295726	50.0425298550559	41.785676764591	45.5869891570251
	46.8674366115656	40.7616966228404	41.5817737564592	38.4540849632254
	47.798305839406	42.785429206422	43.0971787292711	45.7562276914441
TRPC4AP	469.553640187203	582.511224532378	439.46735042867	
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TRPC5	40.148780650831	40.0527893189096	34.9849896310235	33.8111782249716
	40.148780650831	37.3799542961839	38.0598374201407	38.079222289614
	35.2143190355414	36.8059561571675	39.9899430628542	35.7451401627836
TRPC6	58.651329686676	50.2163892855092	53.6837370963602	56.6458456890715
	49.452985143568	51.8103411703261	55.8019623191927	58.2043532960091
	46.9739160257217	51.0055825931636	51.7538628098347	48.8670821164567
TRPC7	45.3872406432794	39.1982470626863	43.6670755115848	44.1483976313959
	41.1868052124344	40.244271403831	45.7452456977857	43.0390857698452
	40.0403898620771	43.2988017098387	41.5421429082231	42.57175366709
TRPM1	34.8099089553046	39.0894172982439	40.301483914446	37.4223289687135
	40.4639532172338	41.3553369544097	38.4005795891396	42.0494116081998
	38.7298222155532	39.6719190054379	42.7275315121163	41.4508241771315
TRPM2	46.68364047986	46.8954576545929	41.0356368374708	54.1952533541951
	52.2089306840125	41.6590564937735	47.6810611485413	48.9826868640753
	49.3780606970538	44.0719548209593	47.4630625313159	41.1554481567603
TRPM3	38.4344387289956	37.4540772310118	38.2280071951674	36.9456005425764
	38.745552403895	40.5912213523345	42.3074504864935	36.2885860224741
	40.3316153483289	38.6005272730664	38.2280071951674	38.4330755397458
TRPM4	126.528654651607	177.878878992191	263.636675573982	53.9517841438975
	200.450523205251	70.5699797830702	100.650129064849	222.696947669812
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	41.6806984441849	40.9506062495231	37.6036146841933	42.5435283762933
	49.9951674107458	46.441301934328	41.6336636285875	44.9070250604284
TRPM6	46.0920218698606	43.0227387991135	45.8844325913247	55.6481366056639
	45.1137938810047	50.4022543872993	41.253645578517	44.4031868028216
	59.0563795877672	43.9450023643394	49.1067959632109	41.4508241771315
TRPM7	42.7150227340364	41.7337506166619	44.8872784170036	48.9944486068347
	49.9493230064613	45.6129956328415	49.6872467499977	44.797320243931
	44.7058233759912	46.0119912782855	45.2265319826548	44.6484005362281
TRPM8	41.4508241771315	38.861780967827	40.244271403831	40.4967168818294
	39.6535880152834	39.2248354955045	41.4186558780356	41.5934628038429
	39.5411918095433	37.5597671487621	36.9060997041453	41.6550823405646
TRPS1	40.8681871019812	38.5252456306656	37.1643693306382	46.614092935749
	36.5393857306744	47.5733603903505	42.0605906240248	48.87875862356
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	40.7311497914871	46.2027193115397	40.7063426028871	42.4580504587581
	44.5432192783161			
TSSK2	43.1805016690297	38.1312950900467	35.6139301508335	43.8002456102021
	37.1565984182084	43.6670755115848	42.1607322031054	42.7431359850339
	41.1742244762318	35.7202909649682	41.5421429082231	42.2577689927563
TSSK3	41.7397731376692	49.9085372049438	45.7968648044613	39.853175885492
	52.5645416722441	45.6129956328415	54.4934782594218	49.085741080241
	52.1788489555942	58.2818491355907	50.5810338885769	54.9919060580109
TSSK4	42.442231667357	39.9697332660833	36.178547300352	45.1944222548351
	42.0709558258414	40.4359177791566	40.9157352260901	41.3506832276112
	36.0741672064298	43.0919221375514	39.6403089864678	41.5536168238478
TSSK6	45.4799270968969	45.8669209716694	44.2405728317107	47.9915414951747
	43.004943518025	43.2805590023412	43.3262148375525	48.5681478665796
	47.9035532886869	46.325232414659	47.6884372645373	44.4475838947656
TST	2650.09507972593	1611.35913846618	773.781266760336	299.706257810523
	1188.3486464341	444.618035487523	2150.8715161597	1144.34555072807
	2083.69812106867	1279.02702402372	1615.83220398811	892.323580265478
TSTA3	171.770578381558	238.647490689325	131.717764850211	85.1847490113446
	159.973746908596	111.240804216088	136.461760992832	91.3607028449916
	198.585368334563	83.2925226467532	84.9601800557888	78.1623301184313
TTBK1	37.0320432433314	39.6123051184545	39.5450079747895	40.646702696033
	40.3452320167286	38.2293008890613	42.7431359850339	40.831207953647
	42.4540072551568	39.1621898366355	36.6298807161755	38.8495095797881
TTBK2	37.4554876386402	38.0226905622357	43.6670755115848	39.1706564265495
	35.9058393060637	44.0804700754786	48.8319884367456	45.1714698794331
	37.5469247328848	41.2276963324981	41.0050831223107	38.8495095797881
TTC1	231.085533860683	108.991044950132	215.15351875081	242.751164798133
	162.151812425949	233.468474830926	153.436974478757	241.31366702947
	190.442443946259	252.206029058968	184.377148097206	203.46147333933
TTC12	65.0031119608637	71.4864243594056	57.5633736951174	54.4586176399381
	54.9698568207204	72.0674952635945	58.2957814921605	59.0262390168156
	56.5094373275922	63.2684764441521	62.8050945727712	62.9364422691302
TTC13	88.0664425843955	98.3864497097481	109.251112569215	96.6610775982571
	124.599352191013	77.4578596822431	100.975810139572	87.6435494489518
	76.0709828871754	71.5616860050001	69.5715902565938	76.1453055441256
TTC14	85.2893380711323	115.087963545095	132.036058401203	130.177232923004
	183.393353108744	115.075487821396	87.2351169088172	105.414552529943
	91.0952554578659	137.410781124396	163.16724817696	148.654594696193
TTC15	535.799532339187	317.777971035617	445.644244692294	307.445116836976
	457.502917254598	408.353336724969	170.327588764719	312.245547906683
	321.069136463599	399.410299413602	409.312313055794	263.765914589758
TTC16	55.7246872330059	58.1027665533767	65.49167373382	73.3725472767369
	58.4383854340181	71.5249259772583	55.9276266345493	66.9340967279385
	76.3790849853724	67.1278109419819	68.5370732645926	67.3183506012892
TTC17	74.4565795414712	154.984589017187	228.907776306695	160.360785581153
	118.951970882732	132.745388099039	115.229070906222	100.616027485975
	98.8114094374455	185.72957253374	234.408769393378	166.36685654692

TTC18 47.6397712007919 48.0296332183129 48.4890615340603 41.7614975630362  
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46.4555908533915 80.3500323413132 56.7429967489965 76.0041771381018  
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TTC31	245.811158468638	229.792906003602	258.212981181513	140.504336039225
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	147.758917745955	222.696947669812	210.308352532282	184.421617360366
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	184.938142193035	117.305340546242	102.993620677265	118.600699776727
	68.4720753153522	65.5996869277644	66.0069448981947	88.4439480366515
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	60.6706478075023	54.0374522273907	56.3106156221316	61.1022920882065
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	42.1650127805175	40.1428591998404	40.9157352260901	46.3685439301234
	46.6944238390932	38.957687788868	53.8856501960117	50.379587451669
TTC36	44.1294459089314	43.1805016690297	46.7508829977587	47.6687908290818
	51.0107745412152	44.0804700754786	44.4639405506967	41.6466169548846
	44.0519245668737	45.1569741609597	36.7283081422707	43.4709415392696
TTC37	81.3544712349691	90.0420794458477	107.637618676176	89.4504034432321
	72.5027069303875	173.212430860273	70.5534237141767	68.2309359831273
	90.7037473522607	82.6036671634626	89.737418965763	134.952392466784
TTC38	65.5495324730507	85.3754356809649	74.3523005665671	78.270329450618
	93.9069049911808	84.3755392205436	71.8466937395628	80.2680308979464
	85.0162042963215	113.546568515215	141.567299023381	78.9701459806641
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	40.047314525032	41.6616444147804	39.3698811593364	43.4709415392696
	41.0657892043496			
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	47.8947595316832	42.1650127805175	47.5733603903505	46.1634822993009
	39.8965727231863	49.641159251878	45.5776159432079	46.5650556481721
	52.6922486991742			
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	96.5813769696577	75.8306078651291	55.1987351219665	130.72385089567
	159.204751627727	148.198469375575	154.707548614663	108.512469038407
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	576.367042159347	354.38923772101	359.628703006773	435.632247999054
	332.184073392054	606.276674926567	438.50123471613	376.840175928841
TTC5	108.649424858333	96.981661155293	104.704892803169	110.88526946931
	100.774098314706	82.4084917533632	76.4889974392545	77.6174893940285
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TTC6	39.266565827316	45.8669209716694	38.0452862258803	35.8472302065546
	38.0598374201407	38.4330755397458	46.9929836306816	40.1474543172332
	43.2761454096265	44.4652605017595	37.1059647239814	36.5474283500601
TTC7A	95.042308285667	56.1355483199198	55.6865353018811	90.5216273844682
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	54.4059109100338	41.9666541498638	51.3103617600342	53.2046867327331
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	74.5694657001572	79.8511759086625	80.2381651206227	84.9099930524863
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UPP2	43.0930293831497	39.8695929627783	34.806104801006	42.357910063876
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USP20	38.385865183581	43.683792219729	42.8723769353017	40.3180310664156
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USP22	52.6554629843702	64.2084111281705	52.2591411217604	49.8281348927244
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USP26	42.5193208629123	54.0052948715814	56.7776874358774	71.0211264570699
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USP27X	45.6517320730042	45.9266745571724	47.5673419710251	
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USP31	40.6559419616644	43.3458769998118	49.4573631027613	40.3180310664156
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USP32	41.8890826572422	36.7495703772303	41.467005949568	42.1679276329916
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USP35	52.8427643366617	58.9128486419884	52.0742951366864	52.3004056941891
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USP37	93.9069049911808	63.8399092891728	64.1080166181228	82.7394574977114
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64.6748464612845 87.3342335690393 63.7417623042104 61.4121672148248  
62.4450952595811

USP7	95.2614267797703	120.60052672409	130.506891299903	95.9391851122771
	115.229070906222	109.137372445043	105.945216149549	161.683983819852
	134.968128884298	103.968071466212	133.981674663494	100.386011517899
USP8	82.9467575626263	79.0592140403004	63.7744603935682	81.2269477373795
	77.4769634299218	76.6571453659046	71.7546556028831	98.3158011081832
	85.4420599474339	83.6524523974491	82.4263339218052	88.1733775711738
USP9X	117.934830767297	113.198141130994	126.017900743748	191.361705136492
	130.002385558757	218.217851814655	154.232642598588	141.180682718758
	149.536891697595	147.945429978177	134.17280153232	153.42135363926
USP9Y	43.0930293831497	50.4872122867759	41.528370959196	40.7481155008596
	42.6022652963326	47.2927436772465	44.7255207589606	55.5578334877425
	42.2577689927563	45.6868589181768	52.5930185400362	45.9693232070002
USPL1	64.7766649630041	82.4362183543935	101.577767481269	110.666686474986
	134.258351436533	100.423344358771	76.1869593072029	51.9447450229707
	75.9909523932333	92.0862930476852	93.310557793228	110.13638939902
UST	60.0793579902362	146.268519891864	137.424708183613	48.665578118898
	58.4383854340181	126.911056987607	65.3694267397114	71.2867274976738
	78.7182388025668	193.290018569713	250.504350952583	237.864776225441
UTF1	41.4508241771315	38.8336427948187	42.9104454767916	41.4273122914951
	34.806104801006	34.2773859804062	37.6036146841933	40.931294690669
	39.4762546236449	41.7405682794166	40.723990462047	37.6557714476853
UTP11L	335.612706052778	223.615985483787	277.588692595406	
	218.446312290024	374.167501183341	312.923326422701	206.676666936979
	234.333935191237	250.585851778133	137.831070407907	175.009248614892
	265.367588517131			
UTP14A	142.309369995384	137.605565493336	166.951916348418	
	158.918242816842	259.906934432819	237.161912299581	170.501116810593
	186.161177110898	164.780216383719	111.877209777434	144.162413121166
	155.928417606775			
UTP14C	149.5664106654	165.905008152959	137.955007835039	
	164.612971085488	151.088035451997	182.448444305445	138.666805923912
	94.4618437533343	162.658589763207	152.95751212223	148.440257128143
	154.232642598588			
UTP15	54.7786516309154	58.7460488758053	62.5610562594275	55.6481366056639
	70.3677225924146	63.2343637481705	52.561573697155	64.893664076381
	59.8158518516035	63.3872214856708	49.532546810992	64.9418945936106
UTP18	63.915453398266	98.2280780221631	64.7318794662958	70.506090074243
	96.6128615107975	77.1317865202676	79.1432909353319	81.2850357499192
	92.7082075328685	47.3791873993182	58.3586374083245	78.0586153423713
UTP20	41.9407041937973	42.6939394537076	41.1678908661272	44.3425264236664
	45.7356815244513	43.3234153488091	43.9450023643394	41.6825727187466
	44.7058233759912	41.800198520267	45.270814840882	41.4061152929154
UTP23	51.0013344286851	76.9671788424922	57.974826209076	64.9839099669442
	80.6200293361016	70.9514994373481	68.9723126642155	57.1362071277099
	58.174555206394	48.1392888470269	60.3254877099749	52.3304586399695
UTP3	74.5282276561826	61.0468099710416	58.1840322066411	65.3191216270241
	60.6168105212811	58.6838326806372	58.8993834673475	81.5582217750731
	64.7450441264824	51.9247097592613	53.8441980932644	63.9371474698484
UTP6	179.433109488671	170.682363891841	158.702003835578	176.816741656659
	262.865950409375	187.422036538629	232.911951245618	278.140612054333
	205.346264347637	153.42135363926	172.015856827154	208.379981648601
UTRN	49.8472708021525	103.139459009593	75.2977438265751	85.5959901987745
	52.0583273941813	80.099836448859	51.3064929551674	57.9713749600418
	45.4799270968969	67.4760456862775	67.1477341610979	60.3816817102326



UTS2	38.7277789106124	37.854877390128	37.2237132058632	37.3623275408484
	37.29566077996	36.8549003957283	40.2689687952401	38.6982083674007
	40.3316153483289	39.3999056968598	40.3255073870549	42.5386078355693
UTS2D	39.3100256336821	42.7775752471711	39.2707964550441	42.8848887336829
	39.2968590261598	38.6704566269103	39.0458123429605	39.2248354955045
	56.284748518655	41.4397539024976	37.0180934800573	41.3948836161924
UTS2R	37.2474303302343	39.2907645923217	40.7620472083159	41.4273122914951
	35.3327761997046	39.7394181011603	37.2892641289258	38.956280281655
	42.0621425894624	41.4397539024976	35.3362091871364	39.1553169409075
UTX	76.8998454389745	132.400225103653	83.955786676926	88.7703546775492
	99.3596089438084	62.2818512646893	173.343091136741	96.213791081731
	90.8109585999257	92.6888475289584	88.6460475038549	100.494620361408
UTY	46.9939712192224	38.380619572367	39.3709357615493	50.6141827957642
	37.3508690072156	43.006072841282	50.4430599873056	49.9332280449549
	44.4395580493118	62.275808835675	63.3872214856708	56.6888826857797
UVRAG	54.0990839134272	62.6984594468418	55.2893984191264	54.2886483704949
	64.428683021978	61.8571521441451	50.8388984085636	55.1563703466328
	51.1621379498014	51.4454142248566	58.0218262176065	65.4435809676217
UXS1	37.4554876386402	44.7829632472754	39.9101908547397	39.5050383901884
	39.7568367479301	42.0574848021044	36.8369172900902	42.4580504587581
	41.1742244762318	37.2089297656361	40.2649309204478	41.7575097298927
UXT	392.237227927376	359.465715235071	366.716775127375	487.065758294354
	266.178061771978	421.971171686029	466.454993547103	388.920739791844
	421.611594456877	364.141443387516	355.00914527669	491.100053064936
VAC14	56.4729864553319	63.9584633070722	60.0517078759277	89.8234189405239
	58.2780916793348	48.0350549043063	73.3042538589134	70.3935694362568
	62.3102413989199	57.6791750431251	63.2684764441521	54.1337783761257
VAMP1	57.6913861717513	57.789018502896	61.5364803543556	80.943990104641
	58.8961770381033	62.6839349907803	51.0572809855463	53.565717255469
	58.5202558613566	58.6439719071099	68.9347693115553	51.9141091503612
VAMP2	108.323780226301	133.192618821838	124.777882272835	93.6212502203405
	98.2280780221631	128.776189744323	64.8367546135053	100.813818453306
	70.0801020070064	214.073500272341	186.759757179509	125.290426098227
VAMP3	422.237766234202	490.652353306749	709.730555484551	534.755211286733
	508.474794786176	627.914461428624	346.844545554188	386.372142079981
	465.981133154896	491.8684831079	465.266372824212	549.117045813593
VAMP4	61.8529316708431	55.4635297192076	72.2797007105795	64.2130157241811
	51.3033654237232	67.6817814091697	49.540449125788	46.1265102517879
	59.8037701388519	60.0372015630618	59.1443775199516	63.4323398447015
VAMP5	569.244038644604	632.577797921655	392.898761909406	861.729405234231
	202.627009037401	909.843512894628	270.036719921343	595.790464730847
	102.457537266105	545.514314651238	669.419736252343	506.173054520807
VAMP7	236.536058101486	227.317566600324	260.331534765939	328.46798329618
	437.015713629277	336.274792875582	301.941928552396	327.844083226326
	246.869486382264	146.311363191836	206.031918669687	226.567000755017
VAMP8	1533.38581753491	1188.3486464341	1335.4111951034	1067.08316477623
	743.463635670141	438.034341389969	1375.14388134842	2077.74475301595
	1016.13142851085	1434.9271715167	1390.12380748446	1247.50618540769
VANGL1	44.2350046179299	45.0905928998779	43.4709415392696	
	44.265834798964	47.6884372645373	45.0882356578404	46.1634822993009
	47.0940613507321	49.9162522057712	55.7930787690756	46.6442692119997
	51.4968903591058			
VANGL2	81.537796828766	228.026217504784	147.65688475427	
	52.1201052574162	130.002385558757	68.1969125201241	143.590160385066

	129.675613712326	338.164006403	223.356945665761	194.896610327943
	152.996027678733			
VAPA	56.921728372453	58.7111274254142	52.8502823653368	65.6382617782876
	86.4975836583091	63.9887413883764	45.5581356216957	54.9169289331775
	61.73650350626	55.2828387400799	54.0104259381604	51.7382401683029
VAPB	48.9906383294199	39.7835513496873	39.0775870687758	38.4208429103799
	37.6527901109005	44.4619248757502	35.4623691645629	38.956280281655
	37.3600014814388	35.0668743708816	41.1638563416981	40.3691324547049
VARS	109.137372445043	149.375918224338	117.033529761587	86.7076796107636
	152.456314990408	85.8895787710259	152.605418131968	105.125095381533
	134.853649092952	99.2100734209486	111.656567824564	84.4821163646146
VARS2	256.302432791187	222.957344929381	249.451753363306	212.436948565474
	352.997455210484	136.711122812062	284.66531382201	223.316311787046
	139.414044294473	200.318682162912	248.744491123257	178.249889756228
VASH1	160.442808769594	106.762097616497	110.540953771795	243.898313340098
	71.2787833369055	106.317388820963	54.339958888486	86.915098846441
	71.3932787152381	83.0700092537618	74.2283328056604	54.1941919612524
VASH2	48.3814421939888	69.640968387662	47.0940613507321	41.3027031037343
	105.446338599737	52.9482338979681	91.116454717205	91.3607028449916
	55.5751438859404	45.2556760873335	45.7328341667151	42.8864415494484
VASN	792.45141054331	229.992809034971	126.764572234324	290.546420262364
	284.66531382201	399.027079798213	88.4695322145032	383.853296408061
	118.93749473833	251.299662213686	296.080833914967	338.164006403
VASP	48.2549905619119	54.1577182755284	51.4308501933893	79.3066495980045
	54.3116862772198	54.9579490132255	41.3094485574845	46.1673159982664
	59.1514832343922	49.7728344236992	58.2315917325629	71.7408778060956
VAT1	312.245547906683	102.926945888985	128.436305192918	225.827961496781
	112.990752518897	255.087214364926	307.974082654351	338.586852166449
	216.782658096982	433.447319956981	264.407051461506	226.719775835218
VAT1L	43.0930293831497	44.7829632472754	43.6670755115848	43.8002456102021
	46.3150221024046	38.9378717994178	40.7910160811527	42.6450179841129
	38.4344387289956	40.2112371512838	44.2925355984056	41.1554481567603
VAV1	44.0328992213727	57.5197017161209	47.7737810047679	182.219366179899
	58.9875400392427	54.8265655909623	59.5205055437765	57.037639245179
	38.1169703906207	43.7303813515864	47.6125796208753	45.8546719310325
VAV2	57.2008272301399	52.5868047927666	54.7855575216687	37.8442841690502
	48.8381507187986	51.3886035574416	55.8019623191927	54.9919060580109
	43.7630587657205	52.7972156492746	52.6960621424156	48.0350549043063
VAV3	260.581111456578	177.425508756002	88.878414939392	83.014860007187
	64.5376931825177	59.3618843678775	171.386815652277	75.2101993995344
	114.719721626067	219.186221756668	170.619111196551	319.722393409101
VAX1	40.2543341073001	38.8336427948187	42.0621425894624	37.1894304543751
	38.0598374201407	38.4330755397458	41.1507980856436	43.3262148375525
	41.7627910693483	44.1379638573455	39.7342718293432	47.1060577218993
VAX2	55.6268253440479	43.8495248991589	44.8872784170036	40.1804147506786
	40.5710637884029	39.9397419279057	48.9826868640753	47.4740726032707
	51.8824384192988	46.5650556481721	40.8225507267584	43.5738557773903
VBP1	248.691595276298	506.585006700107	356.318517117856	308.183340806373
	764.571579067138	353.213447404132	467.884559162462	380.862719539633
	418.693470287372	246.568253751149	259.332340491331	378.358853591082
VCAM1	529.210992541911	131.195005779516	90.8236750745974	239.610773859055
	107.844799332742	146.551751666276	49.2007061544241	281.262083731954
	57.1266329529869	117.228320608065	153.901083585889	91.7579171517883

VCAN	1123.99110499679	180.475056805817	101.020328028769	677.855726232203
	200.082941320005	185.703644892356	73.0433648756396	321.550107822925
	62.0272989884264	119.301672388541	106.527144354592	216.063990451376
VCCL	624.954583057431	497.290172759099	420.761600667193	398.641868389511
	390.202312411165	1213.3477481374	383.705244574204	431.168903637888
	1045.20336057833	1582.45600339543	1145.59111340228	1191.93354266135
VCP	409.151984783973	311.668075784386	195.108184885541	229.159869771704
	336.159430045964	318.527516338791	341.535750991033	297.187417426993
	281.07879968121	291.867370164212	337.441212908704	253.527553472516
VCPIP1	154.911548311992	117.934830767297	81.6486527718661	
	145.936763882526	94.6432868887401	107.034189847828	90.0682241853516
	98.3158011081832	117.191735492199	122.23209417744	106.398825125486
	105.446338599737			
VCX	37.55264801907	74.621822948059	42.5406888281114	44.265834798964
	50.2163892855092	45.6129956328415	82.1144251872199	383.371300272181
	52.8502823653368	57.0581769379589	51.2318935933116	40.3691324547049
VCX-C	46.8141313516997	109.844156801015	42.0621425894624	45.4634652319753
	65.8319449883221	45.0882356578404	138.349952332963	563.573152902421
	71.3932787152381	80.0651801266824	52.2759825608835	61.6311118308635
VCX2	41.1523487516364	45.9504618460054	41.187562301961	39.066284740632
	42.5615835912214	42.6162637948382	43.5863537266938	75.9837037583871
	42.8539910132415	42.8486138426692	40.7692130006828	41.3852583796138
VCX3A	40.9999112795884	58.0800636554122	40.1572444265517	38.4208429103799
	49.760344214067	43.6375772743725	57.5741400533433	190.242383482058
	48.8467058855408	45.6271294527191	44.5891268059311	46.8129509799753
VCY	43.0001432913058	48.2220547806679	39.779935291659	41.6045220683604
	47.9128504683618	42.4155142987678	46.9929836306816	56.0183341691645
	45.8325181856483	44.8997235283254	42.4162492820012	39.2469742642337
VCY1B	33.4240466670776	33.3643994200057	38.2280071951674	34.3595588146954
	34.7018263647985	39.0266821712099	35.9894133432376	38.745552403895
	35.6139301508335	34.6720534245631	38.4689132737495	36.7762265039864
VDAC1	1362.12587130194	1896.06380611235	1601.52194699063	983.972164685474
	1062.93431683428	920.504890206997	1039.06999658544	1398.21942794938
	1738.00955642263	673.002926695262	716.048536335117	1145.59111340228
VDAC2	38.5007204246293	34.6306468196142	38.8775560911841	36.5393857306744
	40.9950639693255	34.5886782974123	34.9344532055397	45.9604707098953
	46.4164127487052	35.6208308220005	38.4689132737495	42.4607795638552
VDAC3	1744.56688411113	1588.70376317303	1307.19925493293	1154.6386362
	1618.92099084622	1670.01014610464	1357.41745370754	2337.7738990994
	1245.45371155527	1369.94743248835	1191.93354266135	1330.19215036764
VDR	53.2046867327331	43.3016395799961	49.1589534780597	67.0163226819964
	45.9725715538987	39.8455060654531	45.8980298854198	42.9887069977696
	54.5374188496807	49.0841460667818	51.8063005897118	51.0647893605839
VEGFA	152.942332679485	118.57174795047	130.703767898434	156.69976952483
	169.156238463327	72.8073366137855	113.964753321316	88.0368652545541
	227.206974078547	63.2699016184868	57.7096546601208	92.563449632567
VEGFB	283.21175871127	270.349279607582	250.176074707634	342.475405815033
	325.909358171616	821.922096305069	360.668308246913	162.30238363798
	210.880198736298	438.22469176123	381.533380474563	390.331295238889
VEGFC	122.495387796233	80.4822328865	112.159199477006	91.9185612536409
	68.4323624797175	113.090530993447	65.2361525412756	68.0342444360948
	63.3694113050568	67.6169355376864	64.898351831341	62.0967404944031

VENTX	49.4151347850687	37.920964499903	43.3085358214154	78.5141640924736
	38.8456942580061	45.9266745571724	37.6036146841933	38.745552403895
	42.9020321355927	48.7414853386615	44.2142581488029	46.4499258373233
VENTXP7	36.8611032730253	38.7578265341627	41.554942319225	
	39.5637454855233	36.3853022034874	42.2830035667142	43.0930293831497
	41.1575777497576	39.6413313949444	37.3687900733549	39.5792604499113
	40.716553247236			
VEPH1	42.6036491382658	41.3610369241157	45.7968648044613	42.5664883002833
	43.6587492470348	40.3357777530419	44.6032218589199	51.0724630072723
	35.7973685350741	41.4397539024976	41.9908237694988	38.5279745308203
VEZF1	577.993850127555	389.481124074714	451.437791473506	435.901460958456
	344.578407722941	740.423874031773	479.199214976757	404.674869177442
	761.341795853104	999.13039066242	807.620534408416	779.996851709716
VEZT	94.696942512529	97.0589984189239	124.992776922316	97.8309399470621
	101.987604729928	137.286091889421	119.369994922092	104.822963389102
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VGF	65.3531590366085	64.1607001437806	46.7508829977587	46.0228732507872
	95.6182216943758	47.0027453663546	71.193768715137	65.3019328668633
	57.5883027758003	42.3606390470387	44.7114813656401	44.5432192783161
VGLL1	224.373975368936	217.358456452303	146.311363191836	45.8844325913247
	518.527535205975	103.139459009593	598.404003732481	770.715044136717
	234.45840519702	264.116434279258	324.320137371059	300.186402341399
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	41.6340461942423	40.8634043028528	42.4493032770053	38.8159908342801
	44.0519245668737	42.1317134987795	41.8168470823451	40.4261913313642
VGLL3	58.5759178381027	58.4476706144086	46.5650556481721	43.6726153508978
	54.0126916508417	63.5738862549306	69.6301237585571	68.4659783447092
	55.7522234735038	72.961444366037	63.9029785089421	97.2927456872797
VGLL4	858.975085087497	1020.75813028358	736.405815842011	352.768184657577
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	975.544591158047	1147.19483787501	1151.25293766167	804.592753722875
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	416.972264086884	167.999042735556	240.520228413182	381.533380474563
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VHLL	43.0001432913058	38.8336427948187	44.0451487108213	41.6564075217517
	39.4693871570028	37.7000400506818	38.8417151851134	35.5798430594271
	39.1790517315259	45.5776159432079	43.0016969050339	39.2469742642337
VIL1	38.6454098044474	32.9795880920156	38.9790184198145	35.2143190355414
	38.0598374201407	41.7627910693483	34.806104801006	39.0620487644635
	38.4344387289956	39.8873706855774	43.0971787292711	35.7451401627836
VIL2	3838.19449971537	2393.42629339901	3776.54943917367	1393.24135330226
	892.323580265478	1351.49940447914	2435.70120719503	3869.93390477952
	1845.34855798442	4328.723715755	3786.90274075023	2878.82618761804
VILL	39.9697332660833	66.9524703393018	187.862483922786	63.1604223919703
	61.6452971581503	51.0506441018166	72.3515874601288	50.9933795450314
	96.6294773538052	176.861690566909	147.579873410455	119.621934826916
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VIP	46.1673159982664	40.3946758935842	46.5650556481721	43.8002456102021
	37.1935273352159	46.3715909653832	42.1157692936428	46.0633179231318
	44.7058233759912	41.1222709786153	46.5952288260503	45.0035308952466

VIPR1	75.4732674021193	301.867441371793	430.283061862756	83.1614238528477
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	184.77921410613	945.57360324722	648.885062676884	688.612748336336
VIPR2	58.9201382292404	43.1805016690297	36.1042012504758	43.6726153508978
	42.4864576619427	57.4777075615651	37.9430145836712	39.9576138799997
	39.853866204927	59.6863210839828	95.8149149211251	52.1186591838715
VISA	47.8249696958403	51.1740855632044	54.6820069269589	43.5627649099623
	68.9766943946607	42.8598805316863	54.8074655158941	53.2046867327331
	50.3245489035833	42.8936990772838	46.2560238004757	56.361708620372
VIT	40.6062943725118	42.2114134935898	41.3708420203838	37.9230440150891
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VKORC1	1582.45600339543	433.447319956981	647.297964303385	
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	92.6230008876347	61.5635554619635	58.7389869173495	110.202401893789
VMAC	44.9896851005259	39.0102066700839	43.0971787292711	44.7980740332174
	45.4751076037511	43.1826328292558	41.8315602975157	44.5029690493211
	44.7058233759912	42.3606390470387	50.0808824383821	44.8372404608604
VMD2L3	46.3390850717989	43.7644428186265	44.4311655729487	
	51.0175677516029	41.6806984441849	47.2009420656854	50.8388984085636
	42.4580504587581	43.2761454096265	40.7063426028871	41.0808257270221
	41.7575097298927			
VMO1	78.3851687801705	45.4882438975269	39.2707964550441	77.7973642829228
	58.1242391848692	57.4777075615651	45.7452456977857	69.3468840908665
	46.2027193115397	42.9866214102525	48.5292718280498	52.1186591838715
VN1R1	34.6977013306396	42.8542642792862	46.4569566520107	38.9534635879195
	50.7615314686244	47.2009420656854	45.6042625176633	43.5544347011646
	46.8873421271259	38.2069499294002	44.1148826235374	45.2783024981315
VN1R2	41.483412492426	40.2093230376545	46.8873421271259	48.309866878365
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	43.6670755115848	45.6868589181768	45.447310733898	43.7672102682067
VN1R4	43.9309845324767	40.9731067463382	39.2707964550441	40.9607305725196
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	40.3316153483289	39.5637454855233	35.860430241131	35.5523662009011
VN1R5	38.5007204246293	41.2598458726002	39.4710743516517	40.8681871019812
	44.0451487108213	42.4580504587581	36.5352572191451	41.1575777497576
	40.8970401536578	45.0155543555707	46.3370338074996	43.0930293831497
VNN1	58.3702889417801	48.0296332183129	53.4743535852344	79.7937658787441
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VNN2	48.9600850533759	48.2883694323339	48.8584917918986	245.923368125413
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VNN3	44.3754281580557	40.8880530359822	40.438572186867	82.2766822827861
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470.861392566833 421.611594456877 447.348799009312 415.15150032168  
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VPS53	50.7390160399184	49.2934904960601	57.50915811428	40.1804147506786
	57.6791750431251	48.6621527194963	45.4799270968969	44.1311654985682
	46.2027193115397	45.0155543555707	51.3861659123096	52.0359304386476
VPS54	63.516926797099	64.9959712888709	69.6370071212543	67.8233625051884
	79.8701900696361	72.7934987008399	51.5967098638347	71.2327757437041
	69.0037087543684	63.197604174872	64.9959712888709	62.2025996860055
VPS72	250.621261212308	194.570513601724	198.129308943666	134.099684731177
	283.563531065269	286.456276735451	391.83348187444	400.8670859408
	193.875712862166	167.678403380953	208.269627315418	143.962643695789
VPS8	122.720768249799	129.299077627671	102.228965899392	191.955732544426
	124.422215459182	126.838679504229	96.7125250803971	136.650986373497
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VRK1	75.4732674021193	66.1863819168127	70.3613168347492	65.7321440516177
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VRK2	63.3717459766798	50.8812920005251	49.4573631027613	59.2778887402357
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	1120.83891847181	2101.59244895554	2498.54878472152	1626.71747158994
VSIG4	69.3418521417182	56.5319193881205	58.9135553403521	229.584451980272
	63.3638417360105	151.36347984261	63.928488869459	52.3068458655445
	45.9227107476843	58.3813211109331	54.113533179847	145.335751135441
VSIG6	51.8781065691038	45.2556760873335	38.7745734037492	47.9915414951747
	48.6224651100733	49.3172204533818	47.2927436772465	54.3820590274321
	44.5303781239209	47.2299678280724	43.5710871617107	47.3172462673426
VSIG8	50.5670783769975	41.7337506166619	60.8942621888353	48.1662933382789
	57.6791750431251	47.2927436772465	55.5578334877425	58.0892402609917
	56.9320717885002	57.8585041080995	44.8872784170036	42.8864415494484
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	41.7426502114261	39.0266821712099	35.8517125118857	45.7003272484265
	40.8420925848403	42.6366765186182	42.6776449468246	38.8964578286293
VSTM1	42.3433931248155	48.1627097465883	42.4580504587581	62.3936376596431
	41.7929491793697	42.157627240486	43.9450023643394	40.6171774724171
	42.1594905198929	44.3648993568405	38.2795150354677	42.357910063876
VSTM2	37.9387791625384	43.3458769998118	42.0621425894624	42.6913548400127
	48.0234896130991	41.3553369544097	45.1017494688414	40.931294690669
	41.5635499110307	52.5522545249206	46.3370338074996	41.1554481567603
VSTM2L	74.3135387703106	42.4493032770053	40.0998167098057	
	43.1847628331565	49.452985143568	42.2577689927563	58.3675164086197
	72.2610650652674	47.4699236780425	43.6033221838149	52.2759825608835
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VSTM3	45.2875173643252	44.5152708955623	36.5474283500601	59.0965219753805
	42.9090346219023	40.650742261428	43.3262148375525	44.8997235283254
	40.9901805728485	39.4710743516517	38.3684202018524	42.4607795638552



VSX1	39.1878770155069	40.0952076421149	41.2365089689635	39.3413292410146
	43.588778866215	39.871711263355	38.5066108855005	38.2233438809487
	38.7578265341627	41.5852317867787	39.6403089864678	38.9834959368496
VTA1	153.61084474789	185.72957253374	141.48637125542	114.124846622876
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VTI1A	39.266565827316	40.2493681589104	36.1042012504758	44.265834798964
	40.8873907150245	43.7630587657205	41.1507980856436	41.6466169548846
	45.3756389170606	43.1839109702714	37.6484782516569	34.806104801006
VTI1B	97.2535496140648	66.7256057011273	86.9032093551446	65.3191216270241
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VTN	40.3478825593224	40.2493681589104	35.8265993915844	40.9607305725196
	37.0526522140242	49.9699131196797	40.1235656101329	48.87875862356
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VWA1	104.936456561176	75.1701698483856	123.480244775709	90.8188865732032
	68.6627996695828	104.725576313447	95.2218627805387	133.541341560868
	90.8920620927752	122.924027019519	112.506613718654	85.7390214986603
VWA2	50.0466349801009	46.4385386401326	38.3166554965434	33.5578650644246
	48.2748123114598	37.0180934800573	52.8496345990125	49.3880946790306
	41.3803269429468	51.7594352155304	39.9899430628542	36.7762265039864
VWA3B	39.7576136507593	42.3550738181144	38.7745734037492	37.29566077996
	41.9842695818285	39.6251842352088	40.7910160811527	39.0620487644635
	38.1169703906207	40.8049408996274	43.3085358214154	40.3691324547049
VWA5A	51.342502154612	63.5222607845861	79.8773095098789	54.6089451252049
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WVC2	50.315768338317	47.3536182445315	47.0940613507321	45.5869891570251
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	40.5912213523345	43.9450023643394	44.6286581923295	45.0035308952466
VWCE	45.4799270968969	44.0409178714232	60.1874689914535	36.7892997857376
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WASF2 163.028918580618 248.482699989877 151.205675888138 216.358862796367  
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WDFY1	652.480459437977	294.090159716249	440.728435508514	474.729653426958
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	44.8248621498677	43.6960408897486	41.5421429082231	46.2779564481158
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	46.9143029518644	49.2731519807085	52.0942589368478	47.428201097025
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	37.6685064050907	37.5583886316038	40.3248602167143	43.0456011922275
WDR17	42.8482181313226	41.9894412416874	43.3085358214154	43.6275678329783
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	42.6366765186182	42.7211272990786	42.3440399888092	46.4499258373233
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	678.684833360104	204.064420098696	356.318517117856	350.584135047249
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	121.142787642824	221.450737998571	182.576662575358	164.780216383719
WDR20	79.2665546280232	70.9567983915276	94.0140258999054	82.3591293655947
	80.257554904218	104.17651993553	83.2925226467532	73.2037966614621
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WDR43 122.599723509633 105.446338599737 95.1666040574435 71.1583251698218  
170.87055409699 78.9521593412581 109.844156801015 154.309544187593  
85.9087280306456 47.4767851750188 64.3824529624475 69.8505620106065  
WDR44 64.0759817636265 48.7084357480922 53.2046867327331 61.3149617644002  
59.2643906275025 70.6467150815052 54.0170817319522 54.1731035633439  
66.1940959364976 66.9497120104244 65.6556779936059 71.8887764487177  
WDR45 77.554620469891 78.8595005348182 70.7003843117511 118.911578268073  
66.2443103843603 85.5027511448958 102.559678338485 89.0275988550016  
84.3526980051279 93.6260859565297 75.5799609581534 75.3969721155153  
WDR45L 397.745727767552 353.868749867979 231.637751095711  
192.536546957155 254.82779318297 239.590143292142 346.530266177867  
209.33818226065 540.721068846198 162.272853632419 177.460053912279  
204.554792089177  
WDR46 409.899024157206 277.796753761378 302.422475486532 274.689780722548  
355.7118155732 250.040637073537 380.098235864256 250.866560791828  
179.07886477603 262.024495926094 300.560071753181 211.164957509884  
WDR47 67.7831020218081 66.0282565447846 79.7170181855209 86.2488614616838  
61.8924196882984 69.9819944829311 63.4753448572245 51.4360013601805  
73.0308075762165 57.2813205536176 60.4122350478242 75.7666827480067  
WDR48 79.3539393480885 187.689343320587 207.943044411392 116.694275999729  
330.241189572237 242.339375770778 194.079940066252 77.3999378505514  
220.514070515085 188.789206373516 159.268245287939 190.977045076469  
WDR49 39.5676051939342 43.3458769998118 45.4865173433646 41.4273122914951  
41.1507980856436 45.2457367460834 47.8947595316832 45.5842286511645  
40.7460990419215 44.3187284857534 44.1148826235374 44.7401523707775  
WDR5 93.4042243540384 96.3120603627576 64.2084111281705 66.4510869175159  
88.2959958615748 72.5956443098684 119.660151314176 62.5036823572932  
79.9719218603993 87.9638809147835 78.055431384988 67.9850517608624  
WDR51A 168.91210897306 191.284436365696 184.833679989936  
106.20479137406 325.990132666873 84.5913809068614 384.992066112903

	350.106705208362	288.065258507995	80.3915591207869	73.155721596638
	89.0727613846343			
WDR51B	51.5033727579864	55.6323803479191	56.939860285007	
	52.8502823653368	47.5647821785529	52.4351670989268	74.5591290353333
	44.6107027295193	68.8353800542132	51.0055825931636	60.8201366212589
	55.9555622193202			
WDR52	48.0201377454632	44.9370339275041	45.8445073504868	83.0959169307948
	53.9612654850046	55.0009147092272	51.0724630072723	51.6660481331154
	51.4111372893136	45.7328341667151	44.6834648302383	50.8736372975089
WDR53	70.8288090024328	61.6878176260761	61.2153068100932	53.593974682612
	87.7337304906377	64.5187138759372	55.0897019602305	67.6082563445866
	67.8208976798364	44.6918600441328	56.6884575165011	64.650642183463
WDR54	389.131545459708	255.241295723095	292.93036571522	270.600852806342
	463.527266972118	186.724171695644	989.0602710707	955.088515235485
	582.017297217368	340.962490240304	312.245547906683	321.61848221455
WDR55	73.8374823243007	86.0630164348952	98.1433318215702	75.0377156190383
	92.3034609409756	67.9306669919176	67.7965120293445	122.621100838222
	92.681224908389	73.2445837559745	68.9745034946434	99.0545942554244
WDR57	260.010554284184	339.313853828248	288.552986300755	251.184621899165
	527.563018145855	270.487135967976	414.293172794592	302.730527540866
	268.047342640491	144.515737827731	206.768099707991	243.952697457779
WDR59	265.930422462959	388.920739791844	615.011590811277	262.865950409375
	377.847116683974	254.472291205905	373.399443929227	370.495645380436
	293.883582116334	437.015713629277	417.331253559307	345.615640348066
WDR5B	64.4415447415281	46.6314009405034	51.7138050344355	48.665578118898
	51.7983110178095	46.574682061365	69.1414574152997	42.7431359850339
	55.6617952786921	51.8412522234186	56.7765567227989	54.0374522273907
WDR6	858.228943026906	1382.25775340179	1201.00042684883	538.716947884528
	1881.7281441986	813.242005949542	1517.66978539206	851.813216452015
	965.530928317269	1771.43541011426	1582.45600339543	877.316304736545
WDR60	155.270252661048	130.953274536639	136.392873701653	89.4504034432321
	144.412165495719	175.985530451862	124.599352191013	108.700838142885
	155.730834354163	164.917385239962	163.971002049561	157.133627517432
WDR61	370.64147085217	410.623529765253	277.014526407597	368.078954546259
	704.601607617837	602.047768767953	404.674869177442	397.199620114138
	506.75912743556	240.975885654236	392.898761909406	442.99540222483
WDR62	57.0006212637829	44.5884811528117	48.8941062980393	39.066284740632
	59.8102324370568	39.8455060654531	63.3924515518667	54.3820590274321
	70.5699797830702	40.8970401536578	32.6463318577756	42.6758568421347
WDR63	42.0532901689036	40.9731067463382	38.9790184198145	41.3027031037343
	42.9090346219023	45.8325181856483	36.9355798143571	37.9837233601316
	41.7627910693483	38.0078357808393	39.7342718293432	36.6603338274678
WDR64	39.4710743516517	42.9358255168086	41.6079958749402	41.4273122914951
	39.0564222526273	41.0582900711341	42.0605906240248	42.5435283762933
	40.4997186069494	39.6719190054379	37.2892641289258	44.5432192783161
WDR65	32.3120809246762	37.3634897565502	37.9482157381008	37.0732977341185
	43.6587492470348	41.8613406887824	40.4359177791566	35.5798430594271
	42.7150227340364	37.3179578037963	34.3633615460307	38.2350720635382
WDR66	38.7537364570873	41.159706131351	39.3709357615493	47.0874209746031
	36.9060997041453	40.040778349137	43.5627649099623	40.831207953647
	42.8036731479932	47.9056710878325	35.6041926503637	42.57175366709
WDR67	74.6776631832355	78.0522475574761	61.6878176260761	76.450993090133
	60.9710783023013	59.9876575158981	65.0031119608637	58.5406981871153
	78.3542840447759	52.2256177934134	52.104880481326	68.3234331335073

WDR68	329.978705095448	355.00914527669	259.456935785521	320.13475752314
	364.044597485771	225.329170139176	407.161973433666	338.000998124097
	361.945511835039	314.36962447353	308.280127837858	259.698043923535
WDR69	36.6480005877129	35.4484652445078	38.6727842796202	32.554751989205
	36.3390947880186	43.3785777889265	38.0598374201407	36.1375121409002
	37.0126425326534	38.957687788868	47.6125796208753	36.8690774823319
WDR7	63.3717459766798	68.3234331335073	73.1654226019863	109.726577835621
	54.5125550937898	84.0733026747075	60.7051911023888	55.1531662914834
	86.033725825968	70.8546350449171	83.2925226467532	82.5506190124216
WDR70	216.606583011866	242.899629257173	237.237762964658	173.925818790068
	257.506228440451	322.678762360476	462.234151352018	674.270050283701
	314.36962447353	264.88963894526	242.673166257518	227.317566600324
WDR72	462.362735276132	816.746599467159	116.295564219236	35.6027791404152
	232.628747594691	58.7404123614695	232.553783060082	257.80636663638
	571.790034754076	82.966263655525	62.8408273986904	69.8505620106065
WDR73	63.3717459766798	92.3659612653822	78.080034922779	63.1604223919703
	97.3188285021124	74.7669841575348	93.2133061608764	93.3718038663074
	58.5561424827901	79.6133633483649	99.9752275166514	79.5898953726467
WDR74	153.153205095999	110.860844149372	105.572103854818	108.815245119101
	207.245428311682	101.41797925803	185.312851727212	249.679512440891
	133.344625514809	175.193752938517	181.586195566181	140.41738844565
WDR75	484.968116511768	296.176349059192	323.576613035353	158.225884127529
	604.357590751951	380.278389209918	298.482444614086	444.169882251299
	359.940393399742	416.717470974721	340.553073657744	383.371300272181
WDR76	42.7150227340364	44.5884811528117	40.1985790927248	37.5382094267692
	43.7517118200398	39.3841861812262	54.6414321010929	41.8417024632349
	48.3119523820103	36.4651112441576	36.9060997041453	36.5474283500601
WDR77	78.3851687801705	117.239774193934	93.310557793228	59.0965219753805
	151.848243044839	96.6294773538052	113.866742186841	103.856444152519
	135.800775637089	176.75369241505	130.177232923004	152.47776741936
WDR78	40.4310982248029	40.0145811166794	38.3166554965434	38.1421709520616
	41.5317763076169	38.1814775034697	42.2129151148932	39.512606833112
	37.4937394063612	39.3866822630357	38.8132170743603	39.1807622935084
WDR79	61.6544855697851	60.1685144469519	53.8724557170772	40.3180310664156
	77.2608629053098	62.6839349907803	78.080034922779	71.0593419018503
	67.1278109419819	59.8130420783374	62.2965257278236	50.3118072462443
WDR8	279.063292799015	289.843931942051	232.553783060082	165.311139930529
	416.40156274382	222.570136481811	316.373650015333	328.080879084015
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WDR81	48.6621527194963	53.1278271804774	62.0008474085033	72.4834467838798
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WDR82	295.856741468603	590.139974503603	557.275332269647	419.741944629785
	635.52621743309	543.807654287436	823.933615182634	271.436000380202
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WDR85	59.220967994972	63.4570909617664	54.2670850492947	51.949834638817
	58.7460488758053	48.6621527194963	66.4258159334241	52.5098795466615
	57.1863195337055	66.5422130374814	58.7389869173495	54.4313108506244
WDR86	240.217589414972	51.7983110178095	53.6837370963602	71.0211264570699
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	39.4762546236449	49.5265949137207	49.8393069675192	55.6351010690528
WDR87	44.6231541342	39.8455060654531	40.6737160001291	39.2406797798509
	39.2114264935239	40.4753617660107	42.2577689927563	39.6995529770239
	43.3744503319109	39.1621898366355	45.5707650534259	39.8497227447888

WDR88 33.2552842693684 37.1685072112618 40.4070046183108 30.802355637173  
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WDR89 46.3390850717989 39.6479637904026 38.6427582272425 40.0195349109823  
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WHSC2	44.8914371498528	72.0112676564347	58.4137028673494	44.6905691366696
	55.8173045043348	65.9014252111112	68.673864919178	53.6210959113222
	71.9771425105735	78.0658258913875	64.4570366205389	66.0786923699684

WIBG	226.785831708938	213.768352764473	188.120766710975	157.677866955988
	135.19133529995	116.066916521887	162.735117558467	336.490083577377
	280.563427715895	173.391542207362	155.378768637562	155.050936910986
WIF1	35.8208542506595	36.4002279956519	37.0642268327439	43.8002456102021
	38.1644569189523	40.244271403831	35.1307934330047	37.6557714476853
	39.0775870687758	45.9004543328976	42.7275315121163	44.7401523707775
WIPF1	49.2091117967683	49.1800325307387	44.7255207589606	69.6511571901941
	49.32293280121	52.2089306840125	49.3067361345568	46.4329203134841
	44.3440839686558	48.3693338695392	44.6834648302383	44.0246886382298
WIPF2	58.5759178381027	54.6793272901524	49.3000844711116	61.5515639412892
	53.0419743379342	50.8533737532786	61.6544855697851	55.5578334877425
	57.0301170427216	57.8585041080995	52.022479439889	49.2064066614865
WIPF3	43.6706764143908	38.2263227947189	40.4070046183108	38.0958223740111
	40.9950639693255	47.3791873993182	44.8643898647322	54.720204938924
	41.9635525160083	38.3092241935352	42.0750889188255	39.7411455670172
WIPI1	182.976132230487	164.44912535816	109.832638804839	252.280105035425
	105.945216149549	107.148000219752	126.930102684077	133.69701250532
	132.098298410135	103.385447205588	93.9956276432715	117.355761277966
WIPI2	94.7604013126314	74.621822948059	65.1911280716126	78.8741966117641
	105.446338599737	87.9638809147835	69.4677195088043	74.9146278608114
	84.4111182389028	95.042308285667	69.6449298794042	69.9767092409915
WISP1	67.0338519200714	47.4617077792004	41.6550823405646	90.5216273844682
	61.4366256816323	41.7627910693483	39.700936357233	42.157627240486
	34.7722083264266	38.957687788868	43.363245077835	43.8575940017119
WISP2	89.0495215957248	47.6914221838216	41.1367478979484	41.4273122914951
	39.4693871570028	994.015710537746	48.4859552186772	44.1311654985682
	57.9713749600418	175.578169606663	119.808125185521	251.905799624693
WISP3	53.8241354251942	80.173718023183	39.1553169409075	38.8025302527057
	66.8733921725051	43.2219358930127	44.9027423017108	38.4141941589742
	78.1040551228844	42.6211340086915	40.5084378738092	40.1179210534118
WIT-1	46.5549623118323	36.6002100641539	37.7384958256497	41.4273122914951
	42.1650127805175	45.8325181856483	37.830876898596	37.33030683349
	42.1594905198929	38.528621456378	43.6629145624937	44.9070250604284
WNK1	122.674230293606	98.7446830481164	117.474987556447	144.18700333025
	100.151116279734	144.954155897343	104.00520458442	129.810477623628
	148.514056973195	157.9970294734	160.459991480576	174.985336606027
WNK2	49.8472708021525	43.4396866157171	43.8495248991589	40.0698728584484
	49.452985143568	45.7300501624017	45.8980298854198	43.844855336215
	51.8824384192988	55.7930787690756	50.2203578628217	46.1592873342534
WNK3	41.3387790895716	41.0678614026819	42.9104454767916	41.7082242184693
	43.5544347011646	43.1062482379279	42.6786833450085	40.5654775358427
	39.2566275301834	39.9948390976317	43.5367669381526	42.171601283248
WNK4	42.7150227340364	42.1607322031054	38.6727842796202	44.0451487108213
	38.745552403895	39.132725377815	42.629412460409	47.2864663693787
	56.5094373275922	44.2580151149956	44.2925355984056	36.064718696392
WNT1	45.6517320730042	42.1607322031054	39.2707964550441	46.4555908533915
	40.4639532172338	39.7394181011603	38.941855825269	41.1575777497576
	38.9834959368496	37.920964499903	38.3684202018524	34.6720534245631
WNT10A	39.0620487644635	48.9899488302637	118.619819027443	
	40.646702696033	47.4548471240051	42.0574848021044	45.7452456977857
	60.7942162859036	60.7480970026669	74.6847594297153	50.0303076717704
	50.0571060701893			
WNT10B	41.8409927585705	42.4493032770053	37.2838080935695	
	39.066284740632	38.9496515344837	45.0882356578404	39.1539892144371

	39.1652965788406	35.3227485563945	42.5664883002833	42.357910063876
	46.5650556481721			
WNT11	40.5654775358427	41.0678614026819	44.9758339877851	47.481302504066
	39.4693871570028	53.565717255469	43.4544762830742	46.1673159982664
	45.0997987980157	44.6918600441328	52.022479439889	45.2783024981315
WNT16	46.6348258763289	53.6057809398787	49.513009632558	50.9493788151501
	42.3685136297603	51.2318935933116	48.0283573444179	50.857522488428
	44.8003345643334	54.1012074865821	53.4542270684482	51.6660481331154
WNT2	162.37682406314	61.5429260998857	44.8872784170036	71.7167037224069
	54.6820069269589	57.0775902639215	36.9355798143571	74.0831311663524
	45.0997987980157	46.0119912782855	48.042366934301	53.9431600945419
WNT2B	41.7835997867848	47.9665737016961	46.02045129728	46.3203995372658
	48.7288537840562	54.0104259381604	45.7452456977857	44.1642484298135
	44.3754281580557	57.51482768194	55.9401754632145	59.0457625163577
WNT3	48.8941062980393	78.1204313889396	47.5673419710251	44.9370339275041
	70.6903168772326	44.5544727111028	58.5087296620514	56.4779645313958
	52.8502823653368	49.1928206164702	45.1432412071268	41.863927676552
WNT3A	41.3387790895716	38.0226905622357	38.8775560911841	42.4580504587581
	47.8075998240396	38.4330755397458	40.5585676679482	45.1714698794331
	62.1796792097014	39.9948390976317	43.1931731665131	42.6758568421347
WNT4	46.5549623118323	44.5884811528117	40.301483914446	43.9282059368202
	70.18594926052	43.4681646416585	47.1345949868029	60.7942162859036
	49.7336769474446	59.0630473216622	50.6473771879221	45.4799270968969
WNT5A	101.448989278761	130.908206625954	303.390680076861	165.411942074375
	207.632489510045	51.0506441018166	43.0930293831497	158.613823276652
	195.146655512672	228.660261263355	246.820301517765	479.318513108472
WNT5B	48.7213586071409	51.2405397507224	42.5406888281114	59.198088069573
	45.5809132232681	109.677588309718	41.8799523546812	55.421880601441
	82.5708447805445	63.9129423266349	62.8753829543444	54.7953298048942
WNT6	41.0608773166058	41.554942319225	40.1985790927248	38.5252456306656
	42.4864576619427	43.1826328292558	40.1235656101329	41.0381860307445
	41.3803269429468	40.8970401536578	37.3687900733549	34.0382693188794
WNT7A	37.9387791625384	38.6414316877471	48.4890615340603	48.856176220627
	33.5412189543102	43.5752393599169	38.941855825269	38.956280281655
	46.6944238390932	45.1569741609597	45.6348103033479	45.2783024981315
WNT7B	45.9090659324223	67.3269632644926	64.9072331703985	46.2462906014337
	55.3718910891548	45.6706505553383	52.7002314230604	50.563951934942
	49.1399035787209	47.1785588364488	51.0013344286851	48.0080291106034
WNT8A	40.8091178323174	40.7602938767524	42.4580504587581	41.8291484190524
	42.3685136297603	39.9397419279057	41.8315602975157	36.3405039629059
	39.9791973792384	41.7405682794166	35.7953070087288	38.4829727716328
WNT8B	38.7537364570873	40.8880530359822	41.2365089689635	34.7266486944713
	43.2484996523549	44.7804080899431	43.6753843488695	44.293922970134
	37.8319142847141	42.9866214102525	51.0492389286271	43.3744503319109
WNT9A	43.2724556187214	44.4411734611229	46.4569566520107	51.7739270955254
	39.9697332660833	40.650742261428	48.4859552186772	35.5798430594271
	44.4395580493118	41.6373771565199	44.3763859390287	45.4799270968969
WNT9B	35.9305494063137	31.8637059340657	34.1806289878747	40.1804147506786
	36.3390947880186	33.4492509999281	34.4570158133896	31.3302670771182
	31.5151915411476	39.4710743516517	35.3362091871364	35.0222940937513
WRB	78.1313732870053	81.7866333107878	119.72858253254	74.4365426051588
	134.307645598718	137.916048669047	101.250422688816	79.4300569391437
	103.808640431626	65.5996869277644	69.8314582428552	103.64431747876

WRN	113.444217634165	92.6608453151206	126.319731178054	124.350816245276
	90.9521112485099	96.8783070574131	123.061728345479	86.2118355769367
	111.202737864873	106.590506599473	111.558107942386	112.436153468759
WRNIP1	515.409979010663	377.573838771285	318.768560912915	
	236.10027586633	675.079525434102	295.999383698826	287.121456559795
	289.533968432846	614.088027946471	281.141138830497	256.55408314817
	283.747865829282			
WSB1	146.983805232769	179.433109488671	146.196470375622	179.662015390213
	101.516595046503	147.010700944686	194.644164648125	253.462941029119
	122.904323796484	152.612579631539	133.314819245044	163.360824752796
WSB2	75.6471706262645	78.9203273221608	73.967017874248	72.4834467838798
	63.25187762908	56.3525213736952	55.5578334877425	71.408876667815
	65.4784797364469	79.7389069715403	78.0020909283414	81.2068428211497
WSCD1	40.9558083259517	37.7384958256497	37.5597671487621	39.066284740632
	36.4434672195785	37.9951997351435	39.5496902678788	35.0510338774593
	40.137818555383	37.5343260962758	38.956280281655	42.1537476443423
WSCD2	42.3433931248155	42.0709558258414	44.9758339877851	39.1706564265495
	35.6434124419782	43.0860383229288	38.5066108855005	32.229154316188
	50.4974478884077	43.844855336215	49.2206713037152	52.0359304386476
WT1	38.4330755397458	38.5252456306656	41.9287023391451	46.0228732507872
	46.1804647841331	45.7300501624017	41.9741368971524	41.7419877611072
	43.7078399718247	44.5303781239209	39.5399188536544	43.3744503319109
WTAP	114.230358276599	87.1735705257803	77.9820921829024	153.279284223069
	101.789162379972	80.287662312208	81.5582217750731	83.5767232665142
	75.164719839017	80.1077267656485	77.4094261081238	106.309161354804
WTIP	65.2735059202804	62.6236991757723	55.7246872330059	45.5869891570251
	74.4623288220969	83.1614238528477	61.0468099710416	53.7378346199838
	70.178974380507	57.9141744971757	63.3717459766798	62.8485724004124
WWC1	279.448591201269	85.1950626054282	98.3798838151482	42.4580504587581
	141.740347756446	48.4758590019384	160.360785581153	391.08302432808
	149.475318376458	115.414481087246	163.16724817696	90.689813277023
WWC2	42.6036491382658	43.3458769998118	41.8751578329365	45.1944222548351
	49.9493230064613	47.5733603903505	42.357910063876	42.157627240486
	45.7452456977857	41.3321861371202	47.6125796208753	51.5741598315033
WWC3	165.974848305379	71.9162507601624	135.782043043499	146.268519891864
	67.9032387662129	156.754606475323	93.748984888348	142.846665249354
	92.3388129097482	95.1000239210194	143.590160385066	112.585860083115
WWOX	45.5955029316007	43.6562479579142	44.9210663878929	40.6003408330684
	41.2445895434274	42.3035427430823	45.8980298854198	39.8067641711565
	46.2768056702424	42.5294887665766	44.1694355165457	43.0930293831497
WWP1	373.46798029115	265.667557678228	184.484466722861	198.497745548245
	207.464632062656	306.487935692954	228.439524702578	168.11088055793
	248.258290059808	277.325795311848	244.498602338731	274.731304343034
WWP2	61.141483572676	62.0908175930716	82.4005336009159	79.172237641942
	67.1278109419819	60.0502421545569	68.7342341724306	77.7907484334847
	74.3981029634178	76.8998454389745	82.8770530537113	75.2735539010032
WWTR1	42.9104454767916	40.5400384479766	41.8751578329365	50.5310598656998
	41.5668884168669	87.539553421006	57.4047331041592	42.5435283762933
	40.2274522635576	43.844855336215	41.7272875295469	42.6758568421347
XAB2	365.723799716137	274.259417498569	404.674869177442	242.58992925232
	323.576613035353	273.275823600027	359.83890067786	452.139416552986
	360.900649927623	483.416873464931	509.233939630204	315.880072026714

XAF1	118.05982513603	211.279069257808	351.439404852971	150.336199715245
	73.6323065529916	96.2490896573253	97.4515987591398	109.481322353402
	89.847560289665	110.467254789988	115.962193866339	82.2266112813039
XAGE-4	35.8208542506595	42.2577689927563	41.8389336728199	
	39.7840818430159	40.3452320167286	40.7063426028871	44.2753808209563
	34.9580369221164	44.0256815382334	38.7008388965825	41.862634402486
	37.8490162439785			
XAGE1	40.2087556903277	40.6723334103791	39.4250105372135	40.241149247208
	41.1868052124344	39.7697110924474	40.7376840028647	37.0011886211643
	40.9416717019827	41.5435611403119	40.4504608195666	41.9083581529276
XAGE1B	44.0328992213727	46.5401727105521	39.4710743516517	
	47.9915414951747	43.7517118200398	42.2830035667142	40.6750540874299
	40.8833572570383	41.4397539024976	40.5090849993014	43.0971787292711
	38.7012264805355			
XAGE1D	42.2455707947223	37.2810767789306	41.1367478979484	
	39.9697332660833	37.7576900881741	34.0777108441756	42.2577689927563
	41.9315419791594	42.5406888281114	44.8997235283254	34.5633623842083
	37.0953622406687			
XAGE1E	39.1590964332473	41.3610369241157	43.3085358214154	
	39.6292788039793	44.7829632472754	43.7630587657205	41.4742337714895
	36.3405039629059	38.8271346375425	45.7911932481722	37.7384958256497
	45.2783024981315			
XAGE2	41.7397731376692	42.2900457798748	39.9519547348106	42.6913548400127
	38.8834538955	36.7356360093603	40.5585676679482	39.1652965788406
	38.0213051227859	37.7315666632629	37.4642807402741	41.8200132437731
XAGE3	39.5676051939342	40.3104838541906	41.6079958749402	37.1317006162938
	36.3390947880186	39.066284740632	40.369768755239	40.0965255448873
	37.4937394063612	39.3113207075992	38.2293008890613	37.1747156131306
XAGE5	39.4710743516517	35.8227939208521	43.0016969050339	43.4410741327254
	45.1137938810047	35.4142595025086	35.9058393060637	37.0390589468421
	37.2810767789306	32.7876527533679	37.4642807402741	39.4490233720848
XBP1	1145.59111340228	2745.8277126123	1789.07186722972	3869.93390477952
	837.959914510114	1509.04753111016	1673.60994518271	810.021622878441
	1428.47642890543	241.08817915181	398.641868389511	639.778130093087
XCL1	41.187562301961	40.6723334103791	39.3709357615493	41.1493778437527
	36.2048942610546	38.4330755397458	38.7745734037492	40.0965255448873
	37.0526522140242	39.0648733099061	36.4689948499058	39.7844133452634
XCL2	43.2724556187214	40.8880530359822	41.437237454134	41.0726336841311
	40.7779767565889	33.3470732872681	37.3799542961839	40.3357777530419
	40.2274522635576	42.3606390470387	41.1638563416981	39.5418280570561
XCR1	43.0394685862018	41.2598458726002	45.7407938943718	42.2674195935107
	41.8407088454059	38.8603695827799	46.8613212048981	45.1137938810047
	46.0556875486307	44.7463386786906	41.7677037290981	40.9243125941198
XDH	112.211717641877	55.1766423847208	69.7855392178808	40.4359177791566
	55.3100442506299	37.1317006162938	42.4939802311136	44.4031868028216
	44.7058233759912	41.4397539024976	41.1638563416981	51.0013344286851
XG	36.5393857306744	35.2143190355414	45.063792968927	39.066284740632
	44.5668141895992	42.8598805316863	40.2154497375715	37.5511560880902
	47.1744296124496	39.6719190054379	39.8184668132023	35.4484652445078
XGPY2	39.0237504776589	38.1811246394237	37.9003288112261	39.5050383901884
	41.6340461942423	42.1046072075724	43.3832826368789	41.4508241771315
	39.2497056720346	39.6251842352088	41.3145333832821	40.7704587752083

XIAP	45.0985088502363	50.8114699212931	45.2313723727673	35.1451084093692
	49.8304479381623	58.2531879680192	46.0228732507872	41.0381860307445
	51.7549258776884	41.3321861371202	45.7328341667151	52.2832912331043
XIRP1	41.1523487516364	34.5023764006976	32.2133093774284	37.651298468202
	42.269054475455	38.7340969861754	32.8745892439217	34.8949555140527
	35.3227485563945	33.5412189543102	42.6366765186182	46.0633179231318
XIRP2	38.957687788868	36.4002279956519	40.4070046183108	40.9607305725196
	42.0709558258414	39.132725377815	38.941855825269	38.745552403895
	41.9635525160083	41.0057887014368	39.5399188536544	37.2810767789306
XIST	46.0920218698606	45.7979032939211	81.2136969156029	48.4916117779992
	43.9450023643394	38.5252456306656	44.3440839686558	38.5457716679071
	38.4344387289956	44.2580151149956	43.1931731665131	44.3521099857368
XK	44.7044140979108	64.1607001437806	47.2055133646385	44.550322123994
	49.32293280121	66.4015820814547	110.589130460258	58.4200819624972
	79.2824265044758	54.7827221235949	61.6702707724448	51.138877923954
XKR3	36.8072833828297	39.5050383901884	37.0642268327439	43.5627649099623
	38.9496515344837	40.3357777530419	37.3799542961839	38.3684202018524
	31.5151915411476	39.6719190054379	35.4386677371439	38.0452862258803
XKR4	39.266565827316	41.4508241771315	48.8100349749783	39.9697332660833
	32.325260431418	53.1052228246467	36.9355798143571	38.1835938174625
	42.7150227340364	40.3235655331796	35.2339574411711	38.8495095797881
XKR5	46.0920218698606	41.6466169548846	39.5450079747895	39.2780515621926
	38.0598374201407	39.8455060654531	42.0605906240248	44.4031868028216
	40.3316153483289	52.4351670989268	39.0550139257658	38.4330755397458
XKR6	43.8550481835503	46.8954576545929	43.826317180678	44.550322123994
	49.6679337957544	46.6872654833579	39.4600924554505	41.0920120134247
	53.7792717770978	44.571915452417	52.104880481326	47.3675706016665
XKR7	42.3433931248155	42.1607322031054	38.6005272730664	39.066284740632
	43.4544762830742	40.9506062495231	38.6243997507646	36.3405039629059
	39.3750969348308	36.1550293353654	40.4504608195666	40.5703581862752
XKR8	78.2644076847509	66.2154717217675	63.3544794716167	101.930058725119
	80.4895102121889	67.4256666294142	66.8475050031365	65.2464683900404
	69.1564181547342	82.475816811779	65.9056396615997	57.1441484662045
XKR9	41.4508241771315	40.4359177791566	40.5734458834617	44.0451487108213
	36.4434672195785	38.7340969861754	34.5633623842083	39.9576138799997
	35.7973685350741	40.2112371512838	40.1742127891824	43.1805016690297
XKRX	48.6621527194963	43.683792219729	42.4580504587581	39.7411455670172
	42.0709558258414	38.5252456306656	61.8571521441451	48.9826868640753
	43.1805016690297	38.4187686307607	42.0750889188255	40.3691324547049
XKRY	37.2474303302343	34.3715326040967	34.6977013306396	40.4359177791566
	37.1565984182084	36.8059561571675	41.253645578517	35.4526946152955
	34.8552366193358	35.195364621675	36.2435874904689	40.1700117452801
XLKD1	37.0320432433314	36.4002279956519	38.8775560911841	40.646702696033
	43.5544347011646	292.600202149564	41.5817737564592	41.0381860307445
	42.8036731479932	75.3333024462557	63.7963501146829	146.61436309209
XPA	41.6354649482853	48.5905518770847	38.9790184198145	34.9221408381038
	39.7568367479301	43.1826328292558	31.6981395162348	50.3082459161777
	46.7760357462635	45.9004543328976	39.4410515050885	43.4709415392696
XPC	245.489660195494	462.234151352018	318.369837408344	270.202959012185
	260.824949424185	242.135519563833	341.666968456707	359.465715235071
	184.048982286364	366.716775127375	377.847116683974	322.169157552725
XPNPEP1	313.660064080622	390.834121304799	351.637117984528	
	357.800871454252	335.167786298149	305.786520619504	424.182335137838

345.443895623911 282.196234758364 362.927960895643 314.36962447353  
 440.93348620369  
 XPNPEP2 51.1055541075029 40.8880530359822 48.1331309338997  
 51.949834638817 46.9906120932727 84.1922656126304 53.1884505015411  
 46.3685439301234 42.8036731479932 82.7229468743536 62.6048727240291  
 89.737418965763  
 XPNPEP3 3726.73487426505 2257.78227736778 2921.68921750799  
 2348.48320928245 1744.56688411113 1789.07186722972 2911.10227993347  
 3905.8371644287 2054.64068255575 3838.19449971537 4058.32430616734  
 3043.12489526581  
 XPO1 549.67905283016 353.598144765197 433.637087338002 368.318359434313  
 550.751923603828 500.794458547464 507.307494640785 502.67939538729  
 696.113365766871 432.355300448283 483.20917825594 557.717744882602  
 XPO4 101.987604729928 141.611097024526 143.773311381452 130.673639258681  
 133.244526666651 130.953274536639 108.709630036731 119.905655993777  
 96.3741876853801 132.242070552057 146.691463448295 131.238796973323  
 XPO5 116.852483297949 83.8850034281243 84.9970776435852 78.3509756704423  
 153.405734390061 86.1633564934019 122.514153407264 67.5206810636627  
 110.828108546789 99.1952492360239 74.7669841575348 87.799979434508  
 XPO6 212.688298502868 213.933347509147 230.401917528056 550.100918659768  
 458.861461526841 173.511692216696 251.027270265657 400.506633704584  
 247.723546145775 166.168385855406 171.176393131741 136.825026294861  
 XPO7 257.584248252408 127.676574457297 216.782658096982 128.937837181433  
 124.051109959228 130.249044369793 145.027715477051 122.877322487518  
 139.191263237202 128.157032116902 140.35042464015 139.731620245421  
 XPOT 75.1701698483856 81.909815795953 80.943990104641 64.6945454069792  
 106.276392548097 75.1674447943072 74.2690269784394 48.87875862356  
 97.1271615802556 46.0119912782855 48.5292718280498 59.2035499250243  
 XPR1 188.552900887757 242.751164798133 309.102633242573 146.719419166639  
 234.308728996238 113.287380238064 290.031202636467 542.901822331329  
 220.167309646966 192.112101000423 221.325534445978 289.332274319357  
 XRCC1 98.8719561245756 111.409762290528 102.288104112092 87.9098670472958  
 123.674164545425 108.022329297132 127.232160404726 182.905368976291  
 125.946162432491 115.643361390258 103.349712762251 91.0346886951891  
 XRCC2 580.109585240053 322.229113548162 291.486402879057 430.868309653765  
 241.202687910704 238.510952165358 465.887689708274 929.862002014478  
 260.964562714558 830.295872113419 1081.97502255142 664.453262499828  
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 93.0626550693989 51.3886035574416 125.184689092836 118.341308125578  
 109.943883439481 64.3383155834968 66.2027948645675 67.8335962843732  
 XRCC4 36.6480005877129 39.7835513496873 41.3366779545815 40.8681871019812  
 41.7929491793697 38.2293008890613 43.0930293831497 40.6171774724171  
 37.7384958256497 39.0648733099061 42.0750889188255 39.6352613956998  
 XRCC5 142.309369995384 219.64979849407 167.430013807712 102.483081702338  
 255.762638489554 225.53019299714 157.095926797414 110.287699369482  
 256.995917821765 149.27230040094 159.022432105333 219.103786570566  
 XRCC6 729.342532316666 788.950470077369 645.114504971255 547.072513229674  
 637.035929429013 850.205634919459 977.776395810338 830.295872113419  
 1026.51177853708 793.570993808328 698.105755081829 588.736435715365  
 XRCC6BP1 102.044838876428 103.808640431626 136.236041346288  
 90.2790229242453 101.987604729928 100.305262467668 90.7037473522607  
 98.9657264176664 143.399636653204 55.3153799233744 71.2370255410834  
 107.276913085701

XRN1	97.7140868175135	92.0002934041687	112.924613715969	143.251956814524
	82.1344514651393	105.197692490363	91.6978282652998	109.192770642308
	88.4594321382477	181.772001042799	141.567299023381	116.839274984089
XRN2	96.3232257371077	160.303575545559	122.136867360309	183.820203505757
	191.811190401876	161.326580647514	165.107387190373	90.2227706363325
	105.945216149549	76.1382217104599	90.4909052059366	129.580254143964
XRRA1	42.8036731479932	48.7084357480922	42.8270038153139	58.3475983630509
	47.6884372645373	43.4681646416585	50.5252048155459	50.3082459161777
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XTP3TPA	538.716947884528	531.36214636517	431.168903637888	
	243.403622361932	1323.73429724066	352.768184657577	514.853892585612
	457.860665614779	327.283431584541	195.108184885541	175.960838580876
	279.448591201269			
XYLB	54.8439819445945	58.1027665533767	66.288032400574	41.1886975241176
	202.01900875263	65.3801154142721	68.7753456118815	96.332996264667
	83.5069968129733	60.7495043977707	63.0763092522598	54.5921287593554
XYLT1	43.7585538437696	47.2055133646385	42.7303139017786	49.5424425850549
	62.9553576299033	53.6858208094027	47.2927436772465	38.5457716679071
	49.6078549993388	52.0999467564713	50.3221380889396	41.863927676552
XYLT2	299.188277423715	241.202687910704	293.086409068972	170.184914156265
	299.240215762404	178.688550924272	220.85458646522	301.867441371793
	297.739286969257	362.927960895643	342.146013966482	324.126628444078
YAF2	61.6858759579955	55.3178018558518	57.50915811428	54.9765783642973
	52.9900255491262	62.1334409150387	54.1707158323527	51.4360013601805
	61.073266843778	70.5437727804882	69.9652162720742	69.9767092409915
YAP1	195.340273658052	158.557256842416	255.915599666591	123.281175151414
	246.274692971423	357.574415292533	224.665128374218	266.439343650315
	254.112875195524	457.502917254598	427.818758455214	451.290681710534
YARS	486.757854744053	491.468862309918	342.300139006451	542.467997217663
	653.089523541803	432.001201940414	722.514380928291	665.122091380755
	775.515071756239	382.190644764853	468.153823329361	402.571146447946
YARS2	231.733564500645	232.47874874281	205.314410185216	140.662969373546
	269.618616631857	205.789533350801	204.039190380778	240.476103976894
	295.848968688724	167.319747725488	220.217797955745	243.06561740595
YBX1	598.970109654466	850.205634919459	718.832367050609	973.363245512859
	1164.71243740122	1191.93354266135	898.114119553014	803.548811322583
	996.520340280883	536.013150313097	551.490493022416	763.947361966861
YBX2	66.9417866448504	39.0894172982439	46.3411353377615	47.6687908290818
	44.0451487108213	50.6360662655392	46.8613212048981	56.8094693588238
	44.7058233759912	43.2988017098387	44.2925355984056	44.2527566343661
YDD19	36.2496364442264	32.7800533388945	45.5883690965192	40.8681871019812
	47.8075998240396	43.1826328292558	43.6753843488695	43.9366081640576
	45.1899271235974	43.401782064778	38.079222289614	41.7575097298927
YDJC	93.7352369697358	127.82585786161	84.5998418020787	64.6945454069792
	103.199200862158	52.3187919317561	122.988056802699	71.2867274976738
	123.25443049561	69.8941497035747	81.6472320169489	67.8335962843732
YEATS2	232.911951245618	173.013258797349	153.028210322286	
	122.024487499513	181.772001042799	141.808284719109	225.088911324737
	163.097224522154	199.858233616116	163.585662735512	180.994353525666
	187.888403806895			
YEATS4	90.5503099572843	138.314834472957	109.144663527001	
	97.6774247176874	121.84142967836	104.492750153479	196.561401686392
	76.2258667419953	185.360921731157	72.3297091475814	79.3191219048672
	111.98520046281			



YES1	156.844010597219	167.678403380953	159.268245287939	83.877343750194
	156.433762355183	104.305801811472	179.694413858411	189.788255380723
	248.924819383887	126.319731178054	112.644426507762	148.178364767218
YIF1A	203.913062066149	189.344003908074	143.251956814524	190.099949303905
	301.904682664871	176.871009816977	212.353676518748	190.099949303905
	193.235216590157	157.250548147161	185.874151272261	169.920726825854
YIF1B	343.418685340038	92.8280881907307	98.2381567001556	152.679927202674
	138.032032026715	79.8878785326568	229.130963999337	117.869393694564
	178.661935292895	78.806097512943	79.0039595317374	69.7644070698124
YIPF1	281.840536529928	256.302432791187	348.757322819568	293.355303451014
	235.593721159442	168.288592321667	172.748740911831	220.79051545138
	269.963186760811	230.649032296928	216.63059645927	252.313870846326
YIPF2	69.1641374421455	55.8678615468603	74.9113162056974	83.014860007187
	92.5135737873857	63.2343637481705	66.6894494536346	77.118454956956
	62.4776210012906	62.9205616877344	61.940656536312	67.6983931011126
YIPF3	548.387793019855	540.304257899761	545.514314651238	401.56876565547
	402.221227674218	291.713831398096	391.397318564183	332.137622104526
	489.983164420779	587.385368995676	500.168833003599	438.50123471613
YIPF4	112.787082951803	100.114114765033	90.9810377546009	121.831344781285
	80.428712610358	97.6326743942878	128.485596739193	134.994839576312
	115.221134337342	67.9259304928255	73.4535007027931	90.689813277023
YIPF5	52.5367085454068	41.690833180291	54.0170817319522	63.9570596163747
	43.7517118200398	47.5733603903505	55.2088411137193	49.8344973836834
	45.2392954271967	63.6894484284172	56.3106156221316	53.8909465631671
YIPF6	227.642500471069	409.899024157206	281.141138830497	304.977139992391
	220.597255695837	360.248832535446	300.057362423939	480.660242705293
	308.280127837858	391.83348187444	410.058119360034	410.716248834784
YIPF7	41.8409927585705	46.1569135229922	41.437237454134	41.3027031037343
	41.0885562160946	43.8582747295766	41.0381860307445	38.956280281655
	37.2810767789306	41.0057887014368	44.2925355984056	44.8372404608604
YJEFN3	37.8386378737561	53.2046867327331	44.696023817801	
	38.2041059863839	42.269054475455	43.7630587657205	58.7585623394335
	39.6474008369935	46.1101825640108	46.6598879466655	49.532546810992
	42.6758568421347			
YKT6	36.0144420013819	37.1685072112618	36.9795961564828	37.1894304543751
	42.1650127805175	38.2293008890613	43.1931731665131	41.0381860307445
	40.6957787921451	35.3849221682845	39.4410515050885	41.1554481567603
YME1L1	192.98559983091	226.672191323896	227.686495419561	
	229.379918828848	281.906398109158	286.243476131448	205.279698624867
	173.992867985744	229.659465419141	74.2379710965903	104.873452487222
	202.627009037401			
YOD1	83.1614238528477	103.808640431626	102.471939526704	84.4422623834916
	134.099684731177	66.295597720304	95.2218627805387	107.637618676176
	87.275548276476	79.9126192278104	100.271925566074	82.5708447805445
YPEL1	94.1967497986791	68.1040271620925	60.1874689914535	61.8997157694697
	51.2525124735102	66.0069448981947	132.689951767479	107.844799332742
	46.8873421271259	66.5422130374814	60.0105984819248	55.1804535845496
YPEL2	157.843337785472	97.712117589297	92.804679821289	117.539037885384
	85.7842344710572	117.520762118299	61.5000955267432	60.9009676344258
	83.5646728968172	87.3815040456105	82.9256976863272	84.4349803529132
YPEL3	298.721050521396	379.098697147575	513.266895252699	357.800871454252
	236.595286890677	267.427827956058	274.081959734368	402.412173952792
	151.175959542368	441.710000911092	423.989018031638	274.02972772427

YPEL4	45.1912496459517	42.3550738181144	41.6079958749402	43.1847628331565
	40.9950639693255	56.3525213736952	42.2577689927563	40.047314525032
	39.4762546236449	52.6879797806876	44.8872784170036	50.379587451669
YPEL5	510.232992765054	652.480459437977	436.216696884703	799.803676957263
	206.08791147394	736.846933148564	392.409679550956	548.217757366495
	331.935072199058	757.257495810249	631.632335640448	993.626865290891
YRDC	647.297964303385	687.011162822211	472.522115719366	621.980260052085
	472.522115719366	375.529704925121	635.906934423716	991.630429625437
	404.86512250958	879.708199333257	874.419252731128	677.481235695517
YSK4	41.5787026298957	38.7344853699576	39.8669424994203	41.1886975241176
	40.8270141118472	40.5912213523345	41.6550823405646	40.1474543172332
	41.7627910693483	40.2601451506332	41.2250007054033	39.7763627041882
YTHDC1	419.360641528378	317.004252313348	345.713643158898	
	359.296873000994	205.449627031002	333.731080636948	325.676668250281
	362.853023741815	302.667538432677	501.148339791372	486.757854744053
	416.717470974721			
YTHDC2	52.5792653122861	82.5344501505114	79.3066495980045	
	61.7502624458447	68.4323624797175	50.9724155054821	50.2016912396771
	52.7787010032051	55.5751438859404	58.8022152133979	75.8976034525022
	61.4366256816323			
YTHDF1	572.667024472672	385.512974999198	398.641868389511	
	254.322611819303	438.50123471613	309.39599482851	405.148979342648
	319.796914465104	508.474794786176	368.793978305607	302.20349084931
	295.848968688724			
YTHDF2	283.747865829282	263.706801812277	235.195902632101	
	211.926421068313	307.133157118667	191.955732544426	274.994470779348
	408.080620074472	312.795596385258	187.580695643466	224.749607192071
	213.309547409053			
YTHDF3	117.678385591938	99.1860882192276	88.2201332015312	
	129.190555260332	83.0497574039035	90.7101037998119	80.2289541115146
	74.6572522248684	117.282216847547	89.6670947876322	97.4062608315831
	105.91905761474			
YWHAB	782.28158356937	1525.47741161586	1516.33074288338	999.862452730252
	1433.1813604069	915.102542160713	1683.24873205783	1310.03307063841
	1354.50256889331	797.019657306322	912.757335169259	1282.9181829891
YWHAE	104.103899614521	94.4501786945034	102.672950481425	75.6767883574112
	84.2158827857221	76.5124583559262	119.700522283289	109.062415049404
	75.2923395421694	80.9907498621309	93.3511668018003	107.122319086614
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	217.533011278692	163.476051754305	172.206923437536	312.045709918301
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	1465.98242110921	2678.43227619157	2865.25344854768	1707.92349760322
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	3190.0108307463	1969.8871504719	4368.11345948444	5156.59948231705
	2191.09005731751	1459.69929955338	1186.06822787922	1928.53890809223
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	2678.43227619157	1526.94101719128	3786.90274075023	1405.20888023653
	6356.05807792831	1382.25775340179	1250.15619347362	1455.64106630257
YY1	104.914715637173	112.787082951803	155.564141715819	99.5125674355716
	129.613152757362	119.474339360208	116.374125502825	126.711833914667
	159.76714232068	84.3672289945664	108.213380368446	131.380698046552

YY1AP1	201.657389063895	106.226670314211	153.12544312212	
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	137.955007835039			
YY2	38.385865183581	46.7591817286632	45.8844325913247	39.853175885492
	48.1473938886239	41.4508241771315	47.5963750520409	40.6171774724171
	44.619512785899	46.1390887492649	46.4205654140754	43.4709415392696
ZACN	46.0920218698606	37.6383530120621	44.7829632472754	35.49696651597
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	38.7298222155532	35.2880714952489	39.6403089864678	39.9519547348106
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	36.0741672064298	39.7835513496873	41.0050831223107	37.6557714476853
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	119.333788465158	75.5861488664745	58.7389869173495	66.6841624416436
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