

Supplementary Table S11. The expression levels of *GmDRMs* and *GmRc*

Gene	Glyma.02G035700	Glyma.05G005600
Symbol	GmDRM2c	GmDRM2a
Cotyledon2_Max_NT_Wms82	1.660598416	18.01925941
CotyledonsandHypocotyl_Soja	0.203964431	9.892274911
Embryo_Soja_NT_W05	1.00242907	23.84725999
Flower_Max_NT_Dongnong53	1.791819452	23.78233091
Flower_Max_NT_Hefeng48	1.012852636	27.7268409
Flower_Max_NT_Heinong35	1.994043896	21.99745266
Flower_Max_NT_Nenfeng16	0.678805411	18.7270434
Flower_Soja_NT_01-555	1.206675401	27.1388128
Flower_Soja_NT_01-590	1.536009553	23.10790842
Flower_Soja_NT_01-737	0.760746125	22.20556257
Flower_Soja_NT_200201-6	2.056978735	28.37358296
Flower_Soja_NT_W05	1.909359521	21.0559925
Flower1_Max_NT_Wms82	0.947204099	17.42855541
Flower2_Max_NT_Wms82	0.816309762	18.00879292
Flower3_Max_NT_Wms82	1.290250253	10.444883
Flower4_Max_NT_Wms82	0.613958745	15.70370034
Flower5_Max_NT_Wms82	0.48946825	18.55723104
Flowerbud_Hybrid_NT_SW	1.605452215	34.27022996
Flowerbud_Hybrid_NT_WS	2.777658525	32.63748766
Flowerbud_Max_NT_Dongnon	0.407834268	28.30369819
Flowerbud_Max_NT_Hefeng48	0.839812086	29.50794284
Flowerbud_Max_NT_Heinong35	1.809804454	25.5105415
Flowerbud_Max_NT_Nenfeng16	0.599790607	30.45388438
Flowerbud_Max_NT_Wms82	0.628432671	29.30781455
Flowerbud_Soja_01-737	0.640719913	25.7489315
Flowerbud_Soja_NT_01-555	0.297858111	26.32607462
Flowerbud_Soja_NT_01-590	0.512902355	27.73618118
Flowerbud_Soja_NT_200201-6	0.790224655	22.00151802
Flowerbud_Soja_NT_PI46	1.405699661	36.50559422
Hypocotyl_Max_056-32	0.212363111	22.12115744
Hypocotyl_Max_NT_010-107	0.285308159	18.18364
Hypocotyl_Max_NT_040-88	0.479128746	19.82855889
Hypocotyl_Max_NT_056-6	0.367656065	18.26670135
Hypocotyl_Max_NT_2880	0.185511073	17.15134189
Hypocotyl_Max_NT_4868-8	0.356522152	16.8813239
Hypocotyl_Max_NT_6448	0.319177664	17.15579946
Hypocotyl_Max_NT_734-6	0.301087161	17.39614705
Hypocotyl_Max_NT_Dow1965	0.245918094	18.33626788
Hypocotyl_Max_NT_Dow5713	0.190501416	21.52666006
Hypocotyl_Max_NT_Dow67	0.436049924	22.13791924
Hypocotyl_Max_NT_Rps11PI	0.540561579	20.72152718

Hypocotyl_Max_NT_Rps1fPI	0.290396101	28.73920037
Hypocotyl_Max_NT_Rps2dasF	0.318085758	16.57580226
Hypocotyl_Max_NT_Wms	0.44939502	21.31929975
Hypocotyl_Max_PsojaeInoc_R	0.201177057	20.52005979
Hypocotyl_Max_PsojaeInoc_R	0.273300234	24.18707073
Hypocotyl_Max_PsojaeInoc_R	0.471568305	23.10684694
Hypocotyl_Max_PsojaeInoc_R	0	21.30784409
Hypocotyl_Max_PsojaeInoc_R	0.05852858	21.18734589
Hypocotyl_Max_PsojaeInoc_R	0.202291321	25.40778997
Hypocotyl_Max_PsojaeInoc_R	0.3151319	20.1684416
Hypocotyl_Max_PsojaeInoc_R	0.237035644	20.14802971
Hypocotyl_Max_PsojaeInoc_R	0.242527007	22.90147877
Hypocotyl_Max_PsojaeInoc_R	0.404646766	22.84006188
Hypocotyl_Max_PsojaeInoc_R	0.080540105	28.51119723
Hypocotyl_Max_PsojaeInoc_W	0.369681882	19.43470465
Hypocotyl_Max_PsojaeMock_1	0.089864966	23.18516128
Hypocotyl_Max_PsojaeMock_1	0.113664851	25.6882563
Hypocotyl_Max_PsojaeMock_1	0	24.26190973
Hypocotyl_Max_PsojaeMock_1	0	23.34724744
Hypocotyl_Max_PsojaeMock_1	0.070295355	27.73151758
Hypocotyl_Max_PsojaeMock_1	0.360517705	24.87572166
Hypocotyl_Max_PsojaeMock_1	0.202320761	21.6483214
Hypocotyl_Max_PsojaeMock_1	0.281453812	28.66137987
Hypocotyl_Max_PsojaeMock_1	0.175843267	24.13448845
Hypocotyl_Max_PsojaeMock_1	0.127439175	21.70713951
Hypocotyl_Max_PsojaeMock_1	0	33.104051
Hypocotyl_Max_PsojaeMock_1	0.053161965	26.68730627
Leaf_Hybrid_NT_RIL_NAM3	0.620483335	31.46304522
Leaf_Hybrid_NT_RIL1890	1.508091555	24.57220735
Leaf_Hybrid_NT_SW	55.65128996	28.57537367
Leaf_Hybrid_NT_WS	0.405372072	24.67702487
Leaf_Max_NT_Wms82	0.697136489	22.86607683
Leaf_Soja_NT_PI46	0.361023994	32.61250079
Leaf_Soja_NT_PI47	0.581762428	40.80563942
Leaf1_Max_NT_Wms82	0.42394157	11.4464224
Leaf2_Max_NT_Wms82	2.457972111	17.59136903
Leaf3_Max_NT_Wms82	0.723284791	28.51264781
Leafbud1_Max_NT_Wms82	1.097333404	21.12366803
Leafbud2_Max_NT_Wms82	4.135393221	17.73375832
Leafbud2-1_Max_NT_Wms82	0.045951189	20.31042556
Nodule_Hybrid_Rizo-Infect_S\	0.186386049	27.47862891
Nodule_Hybrid_Rizo-Infect_W	0.396791628	23.80749765
Nodule_Max_Rizo-Infect_Wm:	2.362346876	21.1160655
Nodule_Soja_Rizo-Infect_PI46	0.397165216	26.97886576

Nodule1_Soja_RizoInoc_W05	0.812630678	14.83050987
Nodule10d_Max_Rizo-Infected	0.474534051	28.49840607
Nodule2_Soja_RizoInoc_W05	1.100081048	14.60107573
Nodule20d_Max_Rizo-Infected	0.344668399	17.3129588
Nodule3_Soja_RizoInoc_W05	0.384229446	17.72258322
Nodule4_Soja_RizoInoc_W05	0.598169795	18.59311112
Pods_Hybrid_NT_SW	0.123981162	16.117551
Pods_Hybrid_NT_WS	0.096733466	13.12350684
Pods_Max_NT_Wms82	0.108979797	19.61636351
Pods_Soja_NT_PI46	0.186152163	16.08354688
Pods1_Max_NT_Wms82	0.110214941	16.94161096
Pods14d-1_Soja_NT_W05	0.053115138	19.91817666
Pods14d-2_Soja_NT_W05	4.02950677	21.71747155
Pods15d_Max_NT_Dongnong5	0.17521686	21.59061087
Pods15d_Max_NT_Hefeng48	0.381432877	18.44227962
Pods15d_Max_NT_Heinong35	0.236861742	18.3029528
Pods15d_Max_NT_Nenfeng48	0.157583045	15.87649177
Pods15d_Soja_NT_01-555	0.087058545	16.99818089
Pods15d_Soja_NT_01-590	0.315689618	24.64352082
Pods15d_Soja_NT_01-737	0.12858456	9.750995786
Pods15d_Soja_NT_200201-6	0.125599392	19.67723803
Pods2_Max_NT_Wms82	0.343072313	13.63712444
Pods3_Max_NT_Wms82	0.375822751	11.29347367
Pods40d-1_Soja_NT_W05	0.218055306	34.53450916
Pods40d-2_Soja_NT_W05	3.488843164	13.40158803
Pods5d_Max_NT_Dongnong53	0.917889643	26.37935018
Pods5d_Max_NT_Hefeng48	3.205182697	21.50060443
Pods5d_Max_NT_Heinong35	0.840496737	23.83954382
Pods5d_Max_NT_Nenfeng16	0.59424501	24.52251076
Pods5d_Soja_NT_01-555	0.514379173	28.21171926
Pods5d_Soja_NT_01-590	0.475157014	23.5677879
Pods5d_Soja_NT_01-737	1.203258084	30.37733523
Pods5d_Soja_NT_200201-6	1.205559351	27.17292505
Pods7d_Soja_NT_W05	0.339710021	23.10028146
Pod-seed1_Max_NT_Wms82	0.216575865	16.70040558
Pod-seed2_Max_NT_Wms82	0.437986617	11.7943539
Pod-seed3_Max_NT_Wms82	0.121290339	11.73484028
Root_Max_NT_Wms82	0.925123296	13.35395366
Root_Max_RizoCk21d-1_Wms	0.099729374	15.45805303
Root_Max_RizoCk21d-2_Wms	0.11396004	11.4719774
Root_Max_RizoCk21d-3_Wms	0	13.70537776
Root_Max_RizoCk24d-1_Wms	0.315336372	22.83035332
Root_Max_RizoCk24d-2_Wms	0.065808593	22.24330437
Root_Max_RizoCk24d-3_Wms	0.136394266	18.5496202

Root_Max_RizoCk27d-1_Wms	0.226897538	9.227166563
Root_Max_RizoCk27d-2_Wms	0.248199486	13.79989145
Root_Max_RizoCk27d-3_Wms	0	14.29111109
Root_Max_RizoCk30d-1_Wms	0	13.72589777
Root_Max_RizoCk30d-2_Wms	0.125599289	22.73347134
Root_Max_RizoCk30d-3_Wms	0.338093635	20.73640964
Root_Max_Rizo-Infected_Wms	0.290908167	25.81809983
Root_Max_RizoInoc21d-1_Wn	0.032787532	11.08218595
Root_Max_RizoInoc21d-2_Wn	0.076846488	9.221578509
Root_Max_RizoInoc21d-3_Wn	0.079048596	10.19726893
Root_Max_RizoInoc24d-1_Wn	0	24.05174281
Root_Max_RizoInoc24d-2_Wn	0.112469619	18.05137387
Root_Max_RizoInoc24d-3_Wn	0.369057918	17.12428741
Root_Max_RizoInoc27d-1_Wn	0.052217415	10.3390482
Root_Max_RizoInoc27d-2_Wn	0	13.06097113
Root_Max_RizoInoc27d-3_Wn	0	11.07672937
Root_Max_RizoInoc27d-4_Wn	0.340558532	13.34989447
Root_Max_RizoInoc30d-1_Wn	0.084484891	15.2072803
Root_Max_RizoInoc30d-2_Wn	0.242068358	22.14925475
Root_Soja_NT_W05	0.051769782	14.85792754
Root1_Soja_NT_W05	0.288091825	24.63185106
Root1_Soja_RizoInoc_W05	0.089418265	12.69739361
Root2_Soja_NT_W05	0.140318625	22.54452579
Root2_Soja_RizoInoc_W05	0.09294508	14.08117967
Root3_Soja_RizoInoc_W05	0.219131715	13.71764537
Root4_Soja_RizoInoc_W05	0.393041319	13.47900524
Seed1_Max_NT_Wms82	1.022243084	14.34997838
Seed2_Max_NT_Wms82	1.110431552	9.015198533
Seed3_Max_NT_Wms82	2.701068143	7.526976558
Seed4_Max_NT_Wms82	2.956511511	5.63848981
Seed5_Max_NT_Wms82	0.204958327	4.673049861
Seeds_Hybrid_NT_SW	0.094482992	6.897258392
Seeds_Hybrid_NT_WS	0.223166205	8.614215527
Seeds_Max_NT_Wms82	10.98414052	10.149902
Seeds_Soja_NT_PI46	0	12.095402

***OS1a/b/c* genes were calculated using FPKM (fragments per kilobase of exon model per**

Glyma.07G233200	Glyma.17G038300	Glyma.19G006100	Glyma.03G190800
GmDRM3a	GmDRM3b	GmDRM2b	GmROS1c
2.649891089	3.427192476	8.196996437	23.17771406
0.892344386	1.274777695	5.430552979	2.830006482
1.952098716	9.312038469	19.36270888	9.443937031
5.721605297	9.692114311	24.39317845	40.03087549
9.157875915	10.10742526	21.6075229	58.49223971
9.109632114	17.29570705	23.92852675	48.7386308
4.352340577	6.708194651	19.14630557	37.9132787
5.555260337	8.970379397	19.23850404	44.94296683
7.273457	11.000539	19.92294744	50.34948961
7.03176148	11.822406	21.46537715	63.5737032
24.38686129	15.94688669	24.51409709	44.89303074
4.879474332	6.311493973	11.77438371	22.80623873
12.55045431	15.4157467	24.79306728	86.14821277
8.296372688	8.946088621	18.25868367	52.47705616
3.80931027	7.086136308	18.20686468	37.15101521
2.182964427	5.634776926	10.53280336	34.46355089
12.47079976	15.00326592	20.60022896	47.62738885
16.23976663	17.22773723	34.33197813	100.0937708
15.64475316	17.89138873	33.45444605	89.49779158
15.78318617	16.84355526	29.66994299	56.77053009
18.24682623	22.29319355	28.62995748	50.12151222
17.59746033	15.63362996	30.93995487	51.94523847
19.92852663	21.39898102	27.04862158	60.0177569
9.655011031	13.02569536	32.50710814	61.58640172
17.84004507	17.29943765	24.18717671	64.81282369
18.28390561	15.07620287	24.19524352	69.74462241
16.80741562	18.38557671	21.85753111	60.40411577
22.99969653	10.35610206	21.95992725	37.01578646
10.77703073	13.50323613	33.77938881	97.20626138
7.291133491	5.291380859	39.49953872	61.30215149
7.684299751	8.083731173	25.33536452	58.58327533
5.860113129	6.726230478	28.23173998	60.60978642
4.760178529	5.998598959	31.21206491	59.90858832
6.054406822	6.543481468	21.46869049	54.43906747
7.29087801	4.991310129	28.45046774	55.93832566
6.044427017	6.982011406	25.21503548	56.97321307
7.359908368	5.285752373	32.46723214	60.85306055
6.639788536	3.996169026	33.46023066	56.86855922
5.943644195	5.600741645	37.12872607	65.11338416
5.836360526	5.668649017	30.3893255	61.90231811
5.307331863	4.946957477	12.90795527	47.2909478

5.187075188	4.259142818	27.55425076	62.48189218
2.44508345	2.769595182	10.39722739	46.64936479
5.248933833	3.756942367	16.86130115	48.71442016
4.928837891	4.576778042	18.4077007	56.63134148
5.101604373	3.735103201	17.2634648	57.11974896
3.098877432	4.783049949	19.1321998	59.41760641
3.799072977	3.964250063	17.75653674	50.37901121
5.560215081	3.921414846	15.45154507	55.83626513
4.693158657	4.329034279	17.03292926	63.11489229
4.366827758	4.456865443	14.04587897	56.36359126
4.788120001	4.645898615	13.93769584	55.98781902
3.984372253	2.91032408	12.71534449	60.80498525
5.844897726	4.765839684	14.29751905	65.37293302
4.83240631	4.308895626	11.43669493	31.12875065
4.066500701	4.251341642	13.59901208	48.71879086
4.852708175	3.504733682	16.71488371	65.4216954
5.399080417	3.750940079	22.27831077	71.77935334
5.998331927	4.52113078	18.71121452	63.07201257
6.384012972	3.891207907	18.54403768	68.52173924
6.642911054	4.217721304	18.45253071	74.68881476
6.399189268	4.596600742	18.29627354	65.88461063
5.563820921	4.956858638	20.88961855	70.40762474
7.599252928	4.972350681	18.38831573	62.10747455
5.626984556	6.022631908	21.10119209	61.67702603
5.012607558	5.267485908	19.88051133	63.3797498
8.643835538	5.93114247	17.42560462	41.74788654
5.209872538	4.465605033	15.2043219	62.94376618
5.100070342	9.216447591	13.34795858	114.7288821
4.870167222	8.439778425	9.186906351	84.99271945
6.040671197	10.15346861	11.09598468	31.65997173
4.509764298	9.779601231	11.45176103	33.54453894
4.508149293	6.36717993	10.2246685	28.25726567
6.558602558	6.558602558	9.928159835	39.59229801
4.178111985	9.114278044	13.24537892	138.5652329
0.459270034	2.472992493	4.875328058	9.150072225
6.337712403	12.86820693	21.0614473	84.67954899
1.256231479	1.560772444	0.989758135	10.50666328
4.343611392	7.978528294	11.56772297	25.6044461
1.695138663	8.457065416	14.10131833	47.68741732
2.619217775	4.985704011	7.007556328	7.719799759
3.141936251	14.2984726	11.50268187	46.14386037
2.724635842	14.20514027	8.835226907	38.59459897
2.901127743	22.13146021	6.216702306	17.28243241
2.269515521	15.80150182	7.06386706	44.82293155

1.879208443	11.45301362	7.694596732	25.26773514
12.68060436	19.90406714	14.52601456	63.85119287
1.225090259	9.375690754	6.025443925	23.30171675
3.287606265	19.93774122	13.0708862	32.1602129
0.62437285	12.24731361	6.772043994	23.96631172
0.747712244	12.66126066	7.427274953	23.47816445
6.230053368	6.230053368	21.13878805	16.14854629
6.481142198	5.965230381	17.05733444	9.673346564
10.38940734	9.372262564	25.90086515	15.18451842
8.004543006	9.307608147	22.04041609	25.72622892
4.629027529	3.385173193	13.41473284	67.87665877
14.3410872	8.763997731	16.65159569	71.65232084
13.13514544	19.12707434	20.09520259	119.341431
19.93578497	16.97656689	24.56929749	34.20622479
18.74742592	13.42643728	23.89676977	42.45347925
15.86973672	17.61390046	22.26500376	58.67711339
16.3492409	14.08398463	20.09183822	52.57364333
11.0564352	8.096444675	10.92584738	14.10348427
18.17188364	11.70024647	20.26332737	18.88218529
22.73803633	15.73017782	12.72987142	19.26625321
6.468368672	9.440887609	12.35060685	21.85429416
6.003765476	4.266961892	14.02308079	61.53859613
2.893835184	2.53680357	15.18323915	44.98598331
8.749469172	9.430892004	31.20916574	20.93330942
12.62628955	6.949997097	14.09381881	27.52309607
19.39540724	13.38921632	30.54976182	65.94837545
20.54502201	16.88195607	25.28311817	53.9107748
16.54250397	13.27602801	24.68004056	84.43171771
20.00624868	15.94557445	26.06754779	46.90573949
19.8629496	14.36304922	19.09138084	53.99002935
14.06464762	9.522146565	15.66117519	32.34868953
21.30358574	18.08832234	25.20924313	37.10374517
17.3944992	14.79202188	16.80128746	20.60932414
12.15116615	15.62666099	22.21180909	102.906005
6.737915795	6.497275945	14.60683888	19.51589182
7.883759103	5.47483271	14.54741263	24.5585353
7.883872021	3.820645672	15.76774404	42.6032315
3.298265663	5.369737391	14.92264099	24.43532183
1.728642489	2.36026186	13.69616741	20.87668237
1.177587084	1.823360646	13.181378	23.28583492
2.904450917	2.042192051	15.70218777	29.49832962
6.811265632	6.685131083	25.85758249	26.23598614
7.897031137	7.370562395	21.32198407	22.76977311
6.546924776	6.274136244	24.75555931	25.91491057

0.605060103	0.907590154	15.73156267	8.697738974
1.538836816	1.737396405	13.00565309	15.14016867
0.866127945	1.347310136	13.90616533	13.76181068
1.692233972	4.418610926	17.11036571	30.27218549
6.907960904	4.772772988	19.97028698	26.37585072
3.606332111	4.958706652	21.29989903	32.68238475
8.193913372	7.733308774	20.58175282	23.66053092
1.213138699	1.409863893	11.50842387	14.72160205
1.075850826	1.613776239	10.60481529	12.83336343
1.620496226	2.450506488	12.17348384	17.66736129
5.762396716	7.265630642	21.04527496	29.06252257
4.273845527	7.535464483	20.13206183	32.72865917
3.985825519	12.10509972	13.28608506	23.91495311
0.469956736	1.305435379	11.59226616	18.79826945
1.209349179	1.983332653	12.04511782	18.72072528
0.770555087	1.49295048	11.75096507	15.6519002
4.63159604	7.969069657	12.46444228	39.50478975
6.589821463	7.012245916	19.00910037	33.962926
2.420683579	7.988255812	16.46064834	50.83435516
2.329640206	2.355525098	14.83204265	3.157956724
5.569775288	10.70741284	19.59024412	57.71439566
1.341273973	5.298032195	12.45149339	40.39470116
5.098243384	7.951388764	16.90839434	49.95343059
1.673011446	6.784990866	14.59237762	40.84936282
0.701221488	4.864724076	8.26126566	41.10910976
0.693602328	4.878336372	13.94140679	46.05519456
7.9272058	7.830767773	18.99829127	113.7197212
7.810662612	5.288665528	11.06667377	33.65172229
7.274876865	7.310891107	8.175232912	23.87744238
6.778858535	4.202469933	6.588797081	13.53659913
1.311733294	2.090574938	5.41089984	3.689249891
13.6527923	7.983812796	12.23554742	9.353816175
7.900083669	7.230585053	14.14873742	7.275218294
20.53153693	23.5904115	10.38163492	3.754073343
18.41514492	10.54685572	22.30743691	35.86767999

· million mapped reads) in various tissues.

Glyma.10G065900	Glyma.13G151000
GmROS1b	GmROS1a
45.26013981	8.055668912
3.824333084	2.345590958
209.1911191	27.43490087
47.21851489	38.27977921
64.08403031	52.87934802
63.20069653	45.00242224
53.50583829	32.98195703
53.25308987	36.65561124
82.04098083	48.92642193
79.36432547	82.90076692
40.77907327	37.36491269
33.51986715	23.76091849
134.4556218	87.23749748
76.28331433	68.96984523
68.83382697	26.2760488
75.91258794	45.70581768
94.8078719	81.14532336
100.4025116	100.2172671
114.9460454	101.1802965
69.16869184	53.99725707
54.22513946	43.7847483
67.02052451	57.6056907
61.13994578	36.91614447
87.06649	83.86719641
72.30123767	89.90101278
71.64633189	55.40160874
68.4132833	54.0914714
42.44338212	40.75895588
81.10461072	83.78821916
142.3540723	84.80366915
128.5598565	91.22252872
116.4098573	75.33378136
139.9995596	82.35495862
144.0746448	64.45666539
122.6970986	72.99791064
119.9110588	59.48673718
131.792541	71.85946897
134.5940468	75.31241627
124.530776	89.40231476
144.332525	78.12002106
82.19812126	63.98283412

75.4128634	74.48826891
52.82793966	53.16209036
65.4319149	56.3361597
74.78757086	51.50132654
68.27950852	51.38044404
69.18580701	59.0807719
70.5306157	47.40582367
66.89816671	77.14066817
73.634041	56.39882042
74.14603419	54.56283755
75.89881309	47.31231447
73.24315602	51.45037213
79.80533433	53.77305908
82.5536078	59.51913772
62.66107898	36.33444782
88.83151909	58.05276817
87.86292974	72.51817487
96.60000222	67.77219804
98.31379977	65.90733392
95.95315967	92.33294889
90.58007344	65.70435178
94.8378566	68.28325675
90.95649029	67.17364316
94.9993252	65.06200893
94.43242882	65.16389825
111.2204158	81.33481419
92.5549805	63.90068154
76.07731041	70.31135551
78.51761075	31.53156562
77.20063472	11.13882632
73.06831594	13.5292929
59.48898036	19.38039438
93.50521445	15.58420241
76.56933779	64.12902405
31.00072732	5.935181984
94.39094861	66.94359337
12.82878814	2.817003923
62.29653181	35.36614118
57.24352869	28.25852034
47.67435863	2.366486235
48.75326505	25.45500895
42.48315692	21.63837009
60.36417939	10.31972583
37.90090921	26.01432166

69.96242243	24.65826214
95.53952228	33.00647955
74.35547814	29.05214042
40.75040992	15.56310385
71.5627344	26.05555934
70.98281565	27.21672566
34.24979588	15.83859339
27.3110818	11.86597179
53.83601984	20.05228269
22.85948561	16.60477293
41.51954284	53.24956158
61.58700224	78.45105848
152.7287728	104.4531885
39.03442271	30.77976175
64.57658614	35.28254116
62.72529589	42.97963975
61.55587689	36.61836004
16.3452418	10.5776132
17.08670058	17.04723938
34.28921595	39.08970618
27.02480245	22.44042465
53.66937495	52.61871599
47.76707167	44.81686308
78.52716724	67.95148487
72.32427258	53.66173057
43.6396663	35.51833837
48.93378304	36.33203989
64.54632899	48.93983275
44.35048594	38.34861134
40.69530611	36.87702994
22.44641735	21.23001539
21.421939	35.07201431
17.31795575	16.9352385
106.7212098	127.3128634
19.20306001	21.51320257
17.01890854	19.89710631
34.81032723	32.05097202
43.68190866	23.85209193
42.9168741	22.37262298
47.93919031	19.06931342
49.55719377	24.23401234
62.2473998	27.11892798
61.26779991	26.32343712
47.94258456	22.09587112

24.50493415	7.714516307
26.20986577	11.76465566
27.86044889	15.87901232
57.25391604	31.77639347
56.51968012	24.61746068
61.02590118	29.07605264
31.8059596	24.7271942
21.21353346	17.11509191
20.82539813	10.98904772
19.32738182	15.49352489
45.34755677	18.66515458
67.48177149	24.0684985
41.18686369	12.10509972
26.57866431	14.20313692
26.07356829	17.02763643
26.15071325	13.00311709
51.90112033	35.8267576
52.12717747	26.8661952
68.26327694	47.2033298
5.25463291	4.141582589
98.91152666	59.01080887
57.02649843	37.55567125
93.07802141	62.62887973
62.76116551	39.17635137
72.00668159	40.01345118
74.2848093	42.4022223
93.98850088	93.42916033
47.50388538	54.82520528
36.12228463	32.70093165
27.47443911	30.53654032
31.97349905	7.952383098
64.43740032	29.85662537
90.56084613	22.53978674
117.4422451	21.36577545
84.62596141	66.12711129