

**Table S1 Bill-siRNA clusters list.**

**Bill-siRNA clusters in Nipponbare seedling**

Region	Length	seedling-R1_reads	seedling-R2_reads	seedling-R1_RPTM	seedling-R2_RPTM
Chr10:4833386-4833508	123	4809	3569	2675.71	2208.25
Chr10:10320598-10320961	364	15165	10986	8437.76	6797.37
Chr10:20680292-20680594	303	4078	5602	2268.99	3466.13
Chr12:9355709-9356941	1233	10905	9637	6067.51	5962.7
Chr2:1553148-1553253	106	31543	24242	17550.4	14999.3
Chr2:8522078-8522114	37	13082	7402	7278.79	4579.84
Chr2:8525226-8525258	33	9366	7386	5211.22	4569.94
Chr2:9901657-9902569	913	5514	4584	3067.97	2836.26
Chr3:30515072-30515183	112	3514	5180	1955.18	3205.02
Chr4:19715084-19715249	166	7751	7679	4312.63	4751.23
Chr4:19715478-19715718	241	11876	6365	6607.77	3938.22
Chr5:2810218-2810607	390	5254	4882	2923.31	3020.64
Chr5:3660751-3661764	1014	3804	3090	2116.53	1911.88
Chr6:13330447-13330641	195	7692	5974	4279.81	3696.29
Chr6:21165722-21165845	124	4154	5162	2311.27	3193.88
Chr7:136323-139659	3337	18767	15015	10441.9	9290.23
Chr7:12755873-12756152	280	6113	5097	3401.26	3153.67
Chr7:21302369-21308135	5767	6250	5166	3477.48	3196.36
Chr8:9193386-9194236	851	7256	5675	4037.22	3511.29

**Bill-siRNA clusters in Nipponbare inflorescence**

Region	Length	inflorescence-R1_reads	inflorescence-R2_reads	inflorescence-R1_RPTM	inflorescence-R2_RPTM
Chr1:2521768-2526052	4285	2627	6895	2904.7	5136.67
Chr1:2555529-2560694	5166	21626	41074	23912.1	30599.5
Chr1:5581732-5589426	7695	1502	3148	1660.78	2345.21
Chr1:8599811-8604128	4318	1747	3329	1931.68	2480.05
Chr1:9038763-9044876	6114	18114	14666	20028.9	10925.9
Chr1:9435862-9439656	3795	23285	35897	25746.5	26742.7
Chr1:10921204-10924098	2895	3046	10412	3368	7756.78
Chr1:10924269-10926494	2226	16187	21196	17898.1	15790.7
Chr1:11189862-11192041	2180	5892	5818	6514.85	4334.32
Chr1:11194294-11201121	6828	10596	18548	11716.1	13818
Chr1:11360420-11365017	4598	30604	38089	33839.2	28375.7
Chr1:11470333-11475439	5107	45398	42784	50197.1	31873.4
Chr1:12139280-12145453	6174	9104	8537	10066.4	6359.93
Chr1:14333154-14340725	7572	42230	59509	46694.2	44333.3
Chr1:14959355-14964119	4765	6862	9715	7587.39	7237.52
Chr1:20809638-20814813	5176	6926	15002	7658.15	11176.3
Chr1:21008537-21022996	14460	5334	8183	5897.86	6096.21
Chr1:25251535-25254752	3218	2172	4074	2401.6	3035.07
Chr1:25311726-25313703	1978	4796	8793	5302.99	6550.65
Chr1:26580342-26582395	2054	1912	2966	2114.12	2209.62
Chr1:28199276-28206541	7266	42822	59660	47348.8	44445.8
Chr1:28209631-28216676	7046	22132	32121	24471.6	23929.6
Chr1:29052975-29057217	4243	8800	12889	9730.26	9602.1
Chr1:30807171-30812220	5050	5617	10653	6210.78	7936.32
Chr1:38341396-38345532	4137	1946	3410	2151.71	2540.4
Chr10:402185-405250	3066	2367	3450	2617.22	2570.2
Chr10:706248-710643	4396	11784	19749	13029.7	14712.7
Chr10:2403049-2413838	10790	3462	9830	3827.97	7323.2
Chr10:3440819-3446842	6024	4065	8004	4494.72	5962.85
Chr10:5924258-5934240	9983	39174	58543	43315.1	43613.6
Chr10:15985572-15992069	6498	19388	27659	21437.5	20605.5
Chr10:16003028-16005127	2100	3952	8460	4369.77	6302.57
Chr10:16005549-16007061	1513	7447	17020	8234.23	12679.6
Chr10:20776781-20779879	3099	9200	10614	10172.5	7907.26
Chr11:2540766-2543924	3159	4721	4690	5220.06	3493.98
Chr11:3230045-3233542	3498	16650	19171	18410.1	14282.1
Chr11:3993179-4002073	8895	5279	10803	5837.05	8048.07
Chr11:7333517-7336095	2579	2861	4631	3163.44	3450.02
Chr11:7725873-7730813	4941	3419	4087	3780.43	3044.75
Chr11:7731057-7743657	12601	76385	104865	84459.7	78122.8
Chr11:8909723-8916209	6487	4887	4271	5403.61	3181.83
Chr11:16329888-16336863	6976	59254	66685	65517.8	49679.3
Chr11:17164662-17170276	5615	11086	20021	12257.9	14915.3
Chr11:20706536-20709509	2974	7801	11964	8625.65	8912.99
Chr11:22338326-22342986	4661	2558	5127	2828.41	3819.53
Chr11:24386946-24396201	9256	42023	44558	46465.3	33195
Chr11:27016652-27019288	2637	6308	7370	6974.83	5490.53
Chr12:2870565-2882229	11665	1829	5785	2022.35	4309.73
Chr12:4726889-4738510	11622	72131	81501	79756	60717
Chr12:4898715-4904135	5421	22455	27006	24828.7	20119
Chr12:4909461-4920790	11330	19298	27242	21338	20294.9
Chr12:5024901-5028293	3393	2208	2386	2441.41	1777.53
Chr12:9061581-9066507	4927	5206	6557	5756.33	4884.86
Chr12:9355708-9356951	1244	2562	1906	2832.83	1419.94

Chr12:10115606-10124335	8730	1665	3571	1841.01	2660.34
Chr12:17499882-17504299	4418	31960	28592	35338.5	21300.6
Chr12:17984443-17988999	4557	11323	17981	12520	13395.6
Chr12:18392996-18397217	4222	5522	6470	6105.74	4820.05
Chr12:18860415-18868291	7877	12392	27162	13702	20235.3
Chr12:19401294-19406902	5609	1840	6295	2034.51	4689.68
Chr12:24724955-24735788	10834	57596	79055	63684.5	58894.7
Chr2:1292570-1294488	1919	3017	2878	3335.93	2144.06
Chr2:1553161-1553270	110	124	14136	137.108	10531.1
Chr2:3700050-3702958	2909	2088	2846	2308.72	2120.23
Chr2:5895693-5907049	11357	36438	39545	40289.9	29460.4
Chr2:6758841-6765525	6685	13325	19739	14733.6	14705.2
Chr2:6795056-6797018	1963	6868	10746	7594.02	8005.6
Chr2:6797248-6798640	1393	5673	5499	6272.7	4096.67
Chr2:7603808-7610062	6255	18680	21215	20654.7	15804.8
Chr2:8343265-8346971	3707	14307	19778	15819.4	14734.3
Chr2:8347074-8350038	2965	2309	3070	2553.09	2287.1
Chr2:13580482-13582726	2245	3397	3513	3756.1	2617.13
Chr2:13582836-13584440	1605	7388	11931	8168.99	8888.41
Chr2:13584554-13586359	1806	10065	10881	11129	8106.17
Chr2:17352298-17362667	10370	3197	7778	3534.96	5794.49
Chr2:19469238-19471202	1965	9594	19400	10608.2	14452.7
Chr2:29633230-29636002	2773	3844	6077	4250.35	4527.27
Chr2:29777060-29783044	5985	5809	9386	6423.08	6992.42
Chr3:12967075-12976151	9077	4072	7419	4502.46	5527.04
Chr3:15609453-15614434	4982	2929	3762	3238.63	2802.63
Chr3:16790240-16793888	3649	2185	3100	2415.98	2309.45
Chr3:17534172-17543694	9523	5416	3953	5988.53	2944.92
Chr3:20789817-20792348	2532	2287	2011	2528.76	1498.16
Chr3:22402292-22412222	9931	42226	42969	46689.8	32011.2
Chr3:24566447-24574082	7636	35515	40864	39269.3	30443
Chr3:24601028-24606935	5908	11969	15266	13234.3	11372.9
Chr3:26123020-26126247	3228	9410	17259	10404.7	12857.7
Chr3:27617297-27621763	4467	9936	16455	10986.3	12258.7
Chr3:28510208-28512514	2307	2359	2888	2608.37	2151.51
Chr3:29751814-29757515	5702	4199	3891	4642.88	2898.73
Chr4:4588570-4593843	5274	1858	4531	2054.41	3375.52
Chr4:11651697-11659198	7502	2907	5874	3214.3	4376.04
Chr4:19681237-19685224	3988	7526	9336	8321.58	6955.17
Chr4:26770125-26774265	4141	1718	5445	1899.61	4056.44
Chr4:35049575-35053502	3928	27643	31088	30565.2	23160.1
Chr5:661784-664204	2421	1627	3393	1798.99	2527.73
Chr5:1132468-1140507	8040	15917	24430	17599.6	18200
Chr5:1680413-1685418	5006	7138	13497	7892.57	10055.1
Chr5:4824684-4831616	6933	9306	14400	10289.7	10727.8
Chr5:10916862-10920212	3351	11707	15457	12944.6	11515.2
Chr5:10920338-10923044	2707	3129	5343	3459.77	3980.45
Chr5:11242416-11247317	4902	30080	44552	33259.8	33190.5
Chr5:16055424-16058088	2665	7045	9093	7789.73	6774.14
Chr5:18245583-18250825	5243	1078	3800	1191.96	2830.94
Chr5:19884414-19887313	2900	2169	3066	2398.29	2284.12
Chr5:25352163-25357799	5637	40783	57544	45094.2	42869.4
Chr5:26871602-26874206	2605	7858	11473	8688.68	8547.2
Chr6:2605685-2612791	7107	1957	5488	2163.88	4088.47
Chr6:6078050-6083497	5448	20077	19599	22199.4	14600.9
Chr6:6420375-6424515	4141	1493	4229	1650.83	3150.54
Chr6:7535124-7539311	4188	20019	29031	22135.2	21627.6
Chr6:11299378-11306310	6933	23604	32064	26099.2	23887.2
Chr6:13424568-13438590	14023	62500	88610	69106.9	66013.1
Chr6:17320067-17323412	3346	3581	3382	3959.55	2519.54
Chr6:19709922-19712027	2106	4907	4784	5425.72	3564
Chr6:21224117-21229217	5101	3124	4682	3454.24	3488.02
Chr6:25786623-25794475	7853	1095	4417	1210.75	3290.6
Chr6:27798029-27809477	11449	32340	44968	35758.7	33500.5
Chr6:28515426-28518629	3204	4926	8748	5446.73	6517.12
Chr6:29376920-29380615	3696	33523	50394	37066.8	37542.7
Chr7:995670-1002285	6616	4879	6773	5394.76	5045.78
Chr7:4346348-4353167	6820	30032	46656	33206.7	34758
Chr7:4372363-4377384	5022	24835	29814	27460.3	22211
Chr7:4703565-4710602	7038	2132	5532	2357.38	4121.25
Chr7:4988771-4998928	10158	3007	8817	3324.87	6568.53
Chr7:8049445-8056572	7128	1068	3893	1180.9	2900.22
Chr7:8291378-8301022	9645	21362	24845	23620.2	18509.1
Chr7:15712491-15717966	5476	7470	11427	8259.66	8512.94
Chr7:15985944-15991071	5128	16937	15273	18727.4	11378.1
Chr7:19997762-20003812	6051	5672	9608	6271.59	7157.81
Chr7:20003935-20006845	2911	1812	5698	2003.55	4244.92
Chr7:21685705-21693930	8226	2016	5768	2229.11	4297.07
Chr7:21714119-21720197	6079	2627	7860	2904.7	5855.58
Chr7:23519975-23522299	2325	8423	10618	9313.4	7910.24
Chr7:27168180-27170308	2129	1967	3615	2174.93	2693.12
Chr8:4307930-4312926	4997	1621	3757	1792.36	2798.91
Chr8:5776237-5781355	5119	11903	17170	13161.3	12791.4
Chr8:7667556-7673918	6363	9803	11376	10839.3	8474.94
Chr8:7762814-7770869	8056	26914	29225	29759.1	21772.2
Chr8:8702577-8702970	394	5578	3552	6167.66	2646.18
Chr8:9443716-9449228	5513	4962	7612	5486.54	5670.82
Chr8:10491663-10502271	10609	32329	35776	35746.5	26652.6

Chr8:10866511-10873300	6790	1033	4378	1142.2	3261.54
Chr8:10890143-10894812	4670	1647	3931	1821.11	2928.53
Chr8:15452051-15462294	10244	88167	101079	97487.2	75302.3
Chr8:15463916-15466938	3023	3818	4648	4221.6	3462.69
Chr8:16973609-16980517	6909	8634	10783	9546.71	8033.17
Chr8:20978669-20986760	8092	9172	21381	10141.6	15928.5
Chr8:21691355-21695670	4316	12615	16536	13948.5	12319.1
Chr8:22467505-22472176	4672	1230	4492	1360.02	3346.47
Chr8:22504024-22508062	4039	1060	4131	1172.05	3077.53
Chr8:27144229-27147566	3338	11362	7860	12563.1	5855.58
Chr9:1290331-1297850	7520	4834	9754	5345.01	7266.58
Chr9:3227798-3229687	1890	2652	3321	2932.35	2474.09
Chr9:3229897-3231863	1967	2360	4564	2609.48	3400.11
Chr9:3510381-3520050	9670	2699	2528	2984.31	1883.32
Chr9:5769286-5778227	8942	1556	4640	1720.49	3456.73
Chr9:9556900-9558463	1564	2417	3567	2672.5	2657.36
Chr9:12418744-12427530	8787	5337	6917	5901.18	5153.06
Chr9:12621918-12623526	1609	3307	3522	3656.59	2623.83
Chr9:15228002-15232300	4299	4830	6579	5340.58	4901.25
Chr9:16533262-16541018	7757	3033	7252	3353.62	5402.63
Chr9:16723081-16727730	4650	29508	39096	32627.3	29125.9

#### Bill-siRNA clusters in Nipponbare ovary

Region	Length	ovary_reads	ovary_RPTM
Chr1:2521844-2525545	3702	8576	7934.62
Chr1:2555529-2560448	4920	59626	55166.7
Chr1:9039468-9043459	3992	15819	14635.9
Chr1:9435925-9439656	3732	50224	46467.8
Chr1:10922855-10924098	1244	15258	14116.9
Chr1:10924269-10926494	2226	42643	39453.8
Chr1:11188466-11189659	1194	2558	2366.69
Chr1:11189862-11191482	1621	9442	8735.85
Chr1:11195592-11200861	5270	20356	18833.6
Chr1:11360445-11364759	4315	75563	69911.8
Chr1:11470338-11475439	5102	79149	73229.6
Chr1:12141521-12144908	3388	5117	4734.31
Chr1:14333181-14340292	7112	113393	104913
Chr1:14959477-14963426	3950	16419	15191.1
Chr1:20809443-20814598	5156	22228	20565.6
Chr1:21008538-21014877	6340	9650	8928.29
Chr1:25251520-25254709	3190	8514	7877.25
Chr1:25311726-25313703	1978	15834	14649.8
Chr1:26580524-26582469	1946	4094	3787.82
Chr1:28199278-28206541	7264	91550	84703.1
Chr1:28209633-28216658	7026	41598	38487
Chr1:29053164-29056607	3444	16537	15300.2
Chr1:30808064-30812190	4127	17943	16601.1
Chr1:38450707-38453768	3062	4107	3799.84
Chr10:401914-403983	2070	3986	3687.89
Chr10:706272-710633	4362	36959	34194.9
Chr10:5925568-5934240	8673	103078	95369
Chr10:11208276-11213222	4947	2361	2184.42
Chr10:15986726-15991294	4569	35608	32944.9
Chr10:16003038-16005189	2152	5643	5220.97
Chr10:16005552-16007049	1498	19135	17703.9
Chr10:20776792-20779600	2809	19488	18030.5
Chr11:3230045-3232308	2264	34975	32359.3
Chr11:7332657-7335666	3010	10821	10011.7
Chr11:7731054-7735579	4526	114710	106131
Chr11:7735686-7742719	7034	63993	59207.1
Chr11:8910747-8913303	2557	2240	2072.47
Chr11:16330307-16336817	6511	121346	112271
Chr11:17164714-17170193	5480	25690	23768.7
Chr11:19254455-19256354	1900	2546	2355.59
Chr11:20706558-20709374	2817	23173	21439.9
Chr11:22338335-22342969	4635	5928	5484.66
Chr11:24387542-24394638	7097	50954	47143.2
Chr11:27016911-27019288	2378	10212	9448.26
Chr12:4727561-4738238	10678	163098	150900
Chr12:4898742-4904118	5377	40094	37095.4
Chr12:4911982-4917759	5778	40474	37447
Chr12:9061767-9066481	4715	7541	6977.02
Chr12:10927193-10928982	1790	2359	2182.57
Chr12:17500450-17504299	3850	65373	60483.9
Chr12:17984443-17988995	4553	33899	31363.8
Chr12:18392996-18394295	1300	5323	4924.9
Chr12:18395684-18397217	1534	3446	3188.28
Chr12:18860618-18867498	6881	42782	39582.4
Chr12:24728001-24734673	6673	125729	116326
Chr2:3700051-3702965	2915	7078	6548.65
Chr2:5900748-5907257	6510	81371	75285.4
Chr2:6759382-6763679	4298	30285	28020
Chr2:6795024-6797015	1992	16995	15724
Chr2:6797246-6798459	1214	11292	10447.5
Chr2:7605635-7610028	4394	46593	43108.4

Chr2:8343301-8346968	3668	35706	33035.6
Chr2:13580615-13582726	2112	5480	5070.16
Chr2:13582842-13584440	1599	22539	20853.3
Chr2:13584555-13586314	1760	26505	24522.7
Chr2:19469288-19471202	1915	31430	29079.4
Chr2:29633236-29635858	2623	7929	7336
Chr2:29777051-29782774	5724	14196	13134.3
Chr2:34951976-34953742	1767	3282	3036.54
Chr3:12709654-12710829	1176	4169	3857.21
Chr3:12711051-12713166	2116	4022	3721.2
Chr3:15611459-15613388	1930	5607	5187.66
Chr3:16790320-16793973	3654	6140	5680.8
Chr3:19352637-19356624	3988	2932	2712.72
Chr3:20792461-20793650	1190	2294	2122.44
Chr3:22293543-22296227	2685	3385	3131.84
Chr3:22402851-22411450	8600	90234	83485.6
Chr3:24566548-24574110	7563	64241	59436.5
Chr3:24601688-24606560	4873	28588	26450
Chr3:26123012-26126243	3232	32921	30458.9
Chr3:26143500-26144629	1130	2699	2497.15
Chr3:27617781-27619388	1608	7376	6824.36
Chr3:27619511-27621774	2264	18201	16839.8
Chr3:27940887-27943015	2129	2327	2152.97
Chr3:28510208-28512378	2171	8592	7949.42
Chr3:29751814-29754615	2802	2532	2342.64
Chr4:11651952-11657426	5475	11637	10766.7
Chr4:17845592-17848967	3376	2480	2294.53
Chr4:19681575-19685138	3564	18956	17538.3
Chr4:20353517-20355297	1781	2292	2120.59
Chr4:32565887-32567718	1832	3543	3278.03
Chr4:35049584-35053502	3919	68363	63250.2
Chr5:661703-665576	3874	5649	5226.52
Chr5:1134469-1140452	5984	26959	24942.8
Chr5:1680412-1684307	3896	21642	20023.4
Chr5:4824694-4831581	6888	19528	18067.5
Chr5:10917329-10920212	2884	25845	23912.1
Chr5:10920342-10922460	2119	3827	3540.79
Chr5:11242416-11246770	4355	65400	60508.8
Chr5:13079676-13081371	1696	2169	2006.78
Chr5:16055424-16058037	2614	15623	14454.6
Chr5:19884425-19886842	2418	2822	2610.95
Chr5:25352166-25357301	5136	125817	116407
Chr5:26871715-26874206	2492	19220	17782.6
Chr5:27489463-27491629	2167	2724	2520.28
Chr6:6078050-6082334	4285	32313	29896.4
Chr6:7380761-7383367	2607	2818	2607.25
Chr6:7535106-7539308	4203	55255	51122.6
Chr6:11300484-11305697	5214	54265	50206.6
Chr6:13424897-13437332	12436	134932	124841
Chr6:17320233-17323410	3178	5943	5498.53
Chr6:17673971-17676421	2451	5400	4996.14
Chr6:18068855-18071342	2488	3331	3081.88
Chr6:19709919-19712027	2109	6436	5954.66
Chr6:21225606-21227918	2313	4595	4251.35
Chr6:27798395-27809150	10756	70599	65319
Chr6:28515525-28518630	3106	11929	11036.9
Chr6:29376920-29381191	4272	86880	80382.4
Chr7:996003-1001329	5327	10923	10106.1
Chr7:3900364-3903253	2890	3028	2801.54
Chr7:4348715-4353178	4464	78784	72891.9
Chr7:4372345-4376274	3930	51877	47997.2
Chr7:5719332-5723278	3947	3484	3223.44
Chr7:8295242-8301023	5782	37657	34840.7
Chr7:12422161-12424012	1852	2496	2309.33
Chr7:15676996-15677882	887	3912	3619.43
Chr7:15712854-15717796	4943	20012	18515.3
Chr7:15986496-15991075	4580	34511	31930
Chr7:19999609-20003812	4204	12910	11944.5
Chr7:20003949-20005234	1286	2364	2187.2
Chr7:22459903-22462003	2101	3320	3071.7
Chr7:23520073-23522005	1933	11762	10882.3
Chr7:27168208-27170301	2094	6515	6027.75
Chr8:5776604-5780800	4197	23136	21405.7
Chr8:7325192-7326190	999	2426	2244.56
Chr8:7667556-7671308	3753	10352	9577.79
Chr8:7763655-7770869	7215	58782	54385.8
Chr8:8446598-8450020	3423	3270	3025.44
Chr8:9443293-9449278	5986	12350	11426.4
Chr8:10491813-10500449	8637	80024	74039.1
Chr8:15383621-15386899	3279	3012	2786.74
Chr8:15452051-15462294	10244	173350	160385
Chr8:16975162-16979983	4822	21360	19762.5
Chr8:20978754-20986055	7302	22849	21140.2
Chr8:21691366-21695670	4305	29811	27581.5
Chr8:27145005-27147561	2557	17336	16039.5
Chr9:1293310-1297850	4541	11970	11074.8
Chr9:3227834-3229695	1862	5527	5113.65
Chr9:3229897-3231498	1602	4848	4485.43

Chr9:3510498-3519634	9137	3709	3431.61
Chr9:9556907-9558881	1975	6633	6136.93
Chr9:12177687-12182797	5111	4271	3951.58
Chr9:12418744-12420519	1776	2754	2548.03
Chr9:12420622-12427022	6401	8377	7750.5
Chr9:12621913-12623471	1559	4770	4413.26
Chr9:15228199-15232299	4101	8535	7896.68
Chr9:16723081-16726908	3828	83046	76835.1
Chr9:17428907-17430558	1652	3253	3009.71

#### Bill-siRNA clusters in Nipponbare bract

Region	Length	bract_reads	bract_RPTM
Chr1:2555565-2559538	3974	4123	6730.01
Chr1:9436150-9439635	3486	4821	7869.37
Chr1:10923058-10924089	1032	1276	2082.83
Chr1:10924271-10926493	2223	2889	4715.74
Chr1:11360926-11364464	3539	5937	9691.02
Chr1:11470886-11475397	4512	6158	10051.8
Chr1:14333332-14336317	2986	3844	6274.6
Chr1:14336425-14338650	2226	2863	4673.3
Chr1:14338763-14339975	1213	1559	2544.77
Chr1:25311955-25313671	1717	1256	2050.18
Chr1:28200328-28206531	6204	7851	12815.3
Chr1:28210040-28214677	4638	3098	5056.9
Chr1:29053833-29056279	2447	1261	2058.34
Chr10:707138-709675	2538	2916	4759.82
Chr10:5926931-5932489	5559	7262	11853.8
Chr10:10320909-10320961	53	6372	10401.1
Chr10:15987356-15991138	3783	2420	3950.19
Chr10:16005555-16007061	1507	1587	2590.48
Chr10:20777278-20779305	2028	1670	2725.96
Chr11:3230056-3231775	1720	2408	3930.6
Chr11:7731185-7735578	4394	10341	16879.7
Chr11:7735688-7738615	2928	1499	2446.83
Chr11:7738737-7741735	2999	3051	4980.18
Chr11:9798169-9798270	102	2865	4676.57
Chr11:16332390-16336650	4261	9484	15480.8
Chr11:17165906-17168443	2538	1326	2164.44
Chr11:20706562-20708264	1703	1420	2317.88
Chr11:24389485-24393129	3645	1877	3063.85
Chr11:24393231-24394618	1388	1741	2841.85
Chr12:4729407-4736295	6889	11426	18650.8
Chr12:4736403-4737273	871	1588	2592.11
Chr12:4899116-4901879	2764	2834	4625.97
Chr12:4912411-4914505	2095	1402	2288.5
Chr12:4914640-4916540	1901	1231	2009.37
Chr12:9355714-9356917	1204	3370	5500.88
Chr12:17500453-17503989	3537	4861	7934.66
Chr12:17986446-17988664	2219	1722	2810.84
Chr12:18864068-18866206	2139	2383	3889.79
Chr12:24728452-24730449	1998	4335	7076.06
Chr12:24730552-24733990	3439	7061	11525.7
Chr2:1553161-1553230	70	3659	5972.62
Chr2:5902855-5906581	3727	5921	9664.91
Chr2:6759920-6762767	2848	1824	2977.33
Chr2:7605638-7609291	3654	2589	4226.05
Chr2:8343791-8346311	2521	2333	3808.18
Chr2:8522080-8522114	35	7583	12377.8
Chr2:8525230-8525258	29	8358	13642.8
Chr2:13582846-13584440	1595	1620	2644.34
Chr2:13584567-13586310	1744	1932	3153.62
Chr2:19469624-19471187	1564	2648	4322.36
Chr3:22406877-22410687	3811	7321	11950.1
Chr3:24569582-24572160	2579	4168	6803.47
Chr3:24602670-24605086	2417	1602	2614.96
Chr3:26123106-26126043	2938	2294	3744.52
Chr4:35050618-35053502	2885	3918	6395.39
Chr5:1135893-1139298	3406	1795	2930
Chr5:10917774-10920198	2425	1772	2892.45
Chr5:11242427-11246614	4188	6049	9873.84
Chr5:25352988-25356776	3789	8428	13757.1
Chr6:6078050-6080881	2832	2178	3555.17
Chr6:7535833-7538922	3090	3774	6160.34
Chr6:11302776-11304967	2192	4303	7023.83
Chr6:13330467-13330592	126	5914	9653.48
Chr6:13425429-13427842	2414	1398	2281.97
Chr6:13427987-13432273	4287	10103	16491.2
Chr6:27802758-27808793	6036	5718	9333.55
Chr6:29377010-29380073	3064	7899	12893.6
Chr7:136355-139466	3112	3167	5169.53
Chr7:4348789-4353078	4290	5607	9152.36
Chr7:4373867-4376294	2428	4072	6646.77
Chr7:8295263-8298599	3337	2495	4072.61
Chr7:12756069-12756150	82	11019	17986.4
Chr7:15987271-15990551	3281	1908	3114.45

Chr8:5778379-5780180	1802	1256	2050.18
Chr8:7767689-7769795	2107	2632	4296.24
Chr8:10492041-10499590	7550	5737	9364.56
Chr8:15453469-15462092	8624	16232	26495.7
Chr8:20899837-20900339	503	3476	5673.91
Chr8:20981115-20985580	4466	1779	2903.88
Chr8:21692748-21694270	1523	1252	2043.65
Chr8:26181375-26181458	84	1988	3245.03
Chr8:27145500-27147348	1849	1274	2079.56
Chr9:16723103-16726642	3540	6266	10228.1

#### Bill-siRNA clusters in Nipponbare branch

Region	Length	branch_reads	branch_RPTM
Chr1:9436509-9439638	3130	3249	3303.95
Chr1:11361251-11363743	2493	2445	2486.35
Chr1:14333568-14336302	2735	2395	2435.51
Chr1:28200325-28202175	1851	2038	2072.47
Chr1:28202292-28203296	1005	1991	2024.68
Chr1:30298209-30298439	231	2883	2931.76
Chr10:5928582-5932457	3876	3574	3634.45
Chr10:10320909-10320938	30	8915	9065.79
Chr10:20859032-20859299	268	2600	2643.98
Chr11:7731940-7734461	2522	4190	4260.87
Chr11:9798167-9798290	124	4244	4315.78
Chr11:16312182-16312395	214	2779	2826
Chr11:16332382-16336650	4269	5134	5220.84
Chr11:20715970-20716088	119	2113	2148.74
Chr12:4733378-4736277	2900	4015	4082.91
Chr12:9355709-9356885	1177	3923	3989.35
Chr12:24728404-24730422	2019	2153	2189.42
Chr12:24730552-24732124	1573	2459	2500.59
Chr2:1553161-1553230	70	3836	3900.88
Chr2:5904975-5906828	1854	2126	2161.96
Chr2:8522083-8522114	32	17276	17568.2
Chr2:8525232-8525258	27	14025	14262.2
Chr2:9902423-9902539	117	2226	2263.65
Chr2:17987103-17987205	103	3197	3251.07
Chr2:25352977-25353145	169	2020	2054.17
Chr3:22408354-22409951	1598	2631	2675.5
Chr4:8302174-8302676	503	2289	2327.72
Chr4:23615771-23615947	177	3432	3490.05
Chr5:11242587-11245292	2706	3092	3144.3
Chr5:25353338-25356925	3588	4843	4924.91
Chr6:11302835-11304809	1975	2253	2291.11
Chr6:13330467-13330592	126	9724	9888.47
Chr6:13427996-13430856	2861	4572	4649.33
Chr6:27801821-27806496	4676	3176	3229.72
Chr6:29377010-29380135	3126	5106	5192.36
Chr7:136365-138754	2390	3892	3957.83
Chr7:4348715-4353061	4347	2255	2293.14
Chr7:12756069-12756150	82	16672	16954
Chr8:10496169-10500151	3983	2982	3032.44
Chr8:15454505-15458779	4275	4634	4712.38
Chr8:15459026-15462089	3064	3980	4047.32
Chr8:20900013-20900339	327	4312	4384.93
Chr8:26181386-26181458	73	4657	4735.77
Chr9:10619367-10619814	448	5406	5497.44
Chr9:14466940-14467068	129	2120	2155.86
Chr9:16723927-16726377	2451	2573	2616.52

#### Bill-siRNA clusters in Nipponbare stamen

Region	Length	stamen_reads	stamen_RPTM
Chr1:2555565-2559450	3886	3265	3551.79
Chr1:9436150-9439650	3501	5611	6103.85
Chr1:10924273-10926493	2221	2586	2813.15
Chr1:11361161-11364515	3355	6781	7376.62
Chr1:11470690-11475204	4515	5718	6220.25
Chr1:13389805-13392416	2612	25244	27461.4
Chr1:14333509-14338649	5141	6135	6673.88
Chr1:22638675-22639984	1310	7299	7940.12
Chr1:28200187-28206540	6354	8235	8958.34
Chr1:28212846-28214674	1829	2312	2515.08
Chr10:707125-709080	1956	2088	2271.4
Chr10:5863800-5864813	1014	2375	2583.61
Chr10:5928579-5932459	3881	6747	7339.63
Chr10:15987295-15991263	3969	2378	2586.88
Chr11:959469-960198	730	13827	15041.5
Chr11:3230045-3232270	2226	2166	2356.25
Chr11:6403924-6404788	865	4097	4456.87
Chr11:7731178-7734501	3324	9344	10164.7
Chr11:7735700-7741734	6035	4500	4895.27

Chr11:16332252-16336558	4307	8824	9599.07
Chr11:24388697-24392981	4285	2086	2269.23
Chr11:24393090-24394620	1531	2234	2430.23
Chr12:4729451-4736278	6828	10722	11663.8
Chr12:4898973-4901944	2972	2704	2941.51
Chr12:9355713-9356881	1169	5112	5561.02
Chr12:17500947-17503828	2882	4643	5050.83
Chr12:17985691-17988719	3029	2121	2307.3
Chr12:18864068-18866169	2102	2084	2267.05
Chr12:23211154-23211743	590	5915	6434.55
Chr12:24728404-24730449	2046	4349	4731
Chr12:24730559-24732147	1589	5740	6244.18
Chr12:24732257-24734673	2417	1956	2127.81
Chr2:5903208-5906599	3392	6649	7233.03
Chr2:6001388-6001878	491	2027	2205.05
Chr2:7606171-7609153	2983	2445	2659.76
Chr2:8343697-8346273	2577	2276	2475.92
Chr2:8522078-8522112	35	5385	5858
Chr2:8525230-8525258	29	6078	6611.87
Chr2:11111727-11114927	3201	3679	4002.15
Chr2:13584569-13586310	1742	2063	2244.21
Chr3:22087978-22088202	225	2519	2740.26
Chr3:22406873-22410756	3884	8475	9219.42
Chr3:24569592-24572543	2952	4850	5276.01
Chr3:26123107-26126009	2903	2041	2220.27
Chr3:29756833-29756968	136	5475	5955.91
Chr4:35050618-35053500	2883	4672	5082.37
Chr5:11242434-11246731	4298	7231	7866.15
Chr5:17801991-17802387	397	5077	5522.95
Chr5:18834207-18834628	422	1844	2005.97
Chr5:25353010-25356767	3758	7966	8665.71
Chr6:6078051-6080845	2795	1849	2011.41
Chr6:7535842-7538898	3057	3429	3730.19
Chr6:11301671-11304902	3232	3807	4141.39
Chr6:12837371-12838522	1152	22789	24790.7
Chr6:13330471-13330581	111	8032	8737.5
Chr6:13427985-13432522	4538	10439	11355.9
Chr6:25366417-25367331	915	9748	10604.2
Chr6:25428066-25428776	711	2365	2572.73
Chr6:27806584-27808759	2176	2943	3201.5
Chr6:29377008-29380144	3137	8271	8997.5
Chr7:4348764-4353078	4315	4637	5044.3
Chr7:4373862-4376239	2378	4095	4454.69
Chr7:8295416-8298545	3130	2651	2883.86
Chr7:12756071-12756150	80	3409	3708.44
Chr7:15987454-15990559	3106	2322	2525.96
Chr7:20909518-20911172	1655	1983	2157.18
Chr7:21303225-21305661	2437	2684	2919.75
Chr7:21306172-21307790	1619	2392	2602.11
Chr8:7767690-7769893	2204	3225	3508.27
Chr8:10495239-10499777	4539	5837	6349.7
Chr8:15453536-15462092	8557	14941	16253.4
Chr8:17681948-17684640	2693	20485	22284.3
Chr8:20899838-20900339	502	9083	9880.82
Chr9:13621908-13624578	2671	11886	12930
Chr9:16723863-16726352	2490	7656	8328.48

# Bill-siRNA clusters in egg cell

Region	Length	egg cell-R1_reads	egg cell-R2_reads	egg cell-R1_RPTM	egg cell-R2_RPTM
Chr1:2522950-2523954	1005	4726	4788	6833.04	5751.93
Chr1:2555829-2559377	3549	14865	26180	21492.4	31450.6
Chr1:9040092-9043499	3408	8061	10931	11654.9	13131.6
Chr1:9436970-9439961	2992	17685	20722	25569.7	24893.8
Chr1:10923006-10924104	1099	2326	4209	3363.03	5056.36
Chr1:10924312-10925048	737	2648	2286	3828.59	2746.22
Chr1:10925194-10927397	2204	11318	11145	16364	13388.7
Chr1:11189946-11190873	928	6723	8624	9720.39	10360.2
Chr1:11197266-11199494	2229	10195	9524	14740.3	11441.4
Chr1:11361738-11363092	1355	4979	5800	7198.84	6967.67
Chr1:11363203-11364288	1086	8886	16517	12847.7	19842.2
Chr1:11470883-11473390	2508	13792	17839	19941	21430.4
Chr1:11473902-11475185	1284	1399	1683	2022.73	2021.82
Chr1:12142417-12144054	1638	6182	8011	8938.19	9623.79
Chr1:14333578-14334046	469	1173	2157	1695.97	2591.25
Chr1:14334352-14335941	1590	8856	9844	12804.4	11825.8
Chr1:14336432-14336941	510	8351	7371	12074.2	8854.94
Chr1:14337055-14339725	2671	20107	20787	29071.5	24971.9
Chr1:14960897-14961724	828	5880	7227	8501.54	8681.95
Chr1:20810478-20811091	614	2338	656	3380.38	788.067
Chr1:21009371-21009848	478	755	2475	1091.61	2973.27
Chr1:25252473-25253744	1272	3509	5305	5073.45	6373.01
Chr1:25311930-25312933	1004	10530	11196	15224.7	13450
Chr1:26580979-26581884	906	3255	9274	4706.21	11141.1

Chr1:28200989-28203198	2210	9104	11205	13162.9	13460.8
Chr1:28204077-28206320	2244	9471	15498	13693.6	18618.1
Chr1:28212263-28214868	2606	9027	12893	13051.6	15488.6
Chr1:29053819-29055157	1339	5335	7400	7713.56	8889.78
Chr1:30809420-30809877	458	1469	2335	2123.94	2805.09
Chr1:38451891-38452661	771	3087	4872	4463.31	5852.84
Chr10:402640-402983	344	2216	2079	3203.98	2497.55
Chr10:403437-404183	747	1599	1957	2311.9	2350.99
Chr10:707103-708021	919	2835	2983	4098.96	3583.54
Chr10:708360-710346	1987	7537	13322	10897.3	16004
Chr10:5928572-5929230	659	1485	3082	2147.07	3702.47
Chr10:5929396-5930428	1033	9237	18827	13355.2	22617.3
Chr10:5930578-5932403	1826	5800	9652	8385.88	11595.2
Chr10:5932575-5933433	859	1358	1804	1963.45	2167.18
Chr10:5933640-5934228	589	2975	3615	4301.38	4342.78
Chr10:15987538-15989571	2034	11737	13576	16969.8	16309.1
Chr10:15989724-15991243	1520	5925	10845	8566.61	13028.3
Chr10:16004591-16005109	519	1348	1832	1948.99	2200.82
Chr10:16005560-16006254	695	3380	3252	4886.94	3906.7
Chr10:20777395-20778647	1253	26912	24909	38910.5	29923.7
Chr11:3230496-3231673	1178	7337	8912	10608.1	10706.2
Chr11:7732371-7734499	2129	13395	17827	19367	21416
Chr11:7737199-7738621	1423	3485	5942	5038.75	7138.25
Chr11:7739200-7740174	975	2880	3809	4164.02	4575.83
Chr11:7740288-7741683	1396	15002	18459	21690.5	22175.2
Chr11:16332411-16334505	2095	13438	17857	19429.2	21452
Chr11:16334619-16336288	1670	5588	7168	8079.36	8611.07
Chr11:17165586-17168390	2805	9818	13279	14195.3	15952.4
Chr11:17168610-17169447	838	2277	1559	3292.18	1872.86
Chr11:20707192-20707759	568	2756	4520	3984.74	5429.97
Chr11:22340361-22342289	1929	2614	5209	3779.43	6257.69
Chr11:27017983-27018652	670	1294	2713	1870.92	3259.19
Chr12:4730656-4732631	1976	10010	12007	14472.9	14424.3
Chr12:4732744-4736294	3551	11696	16271	16910.6	19546.7
Chr12:4736472-4737252	781	2312	3480	3342.78	4180.6
Chr12:4899631-4901143	1513	10440	12813	15094.6	15392.5
Chr12:4901316-4901606	291	1964	1059	2839.63	1272.2
Chr12:4912418-4916123	3706	7116	12651	10288.6	15197.9
Chr12:9064216-9066039	1824	11450	17030	16554.9	20458.5
Chr12:17500856-17503815	2960	10579	16080	15295.5	19317.3
Chr12:17986373-17987071	699	779	2801	1126.31	3364.9
Chr12:17987560-17988617	1058	1423	2481	2057.43	2980.48
Chr12:18864100-18866181	2082	13106	17062	18949.2	20497
Chr12:24728425-24731900	3476	34136	44835	49355.2	53861.3
Chr12:24732062-24733391	1330	2054	3461	2969.76	4157.77
Chr2:5903234-5906580	3347	26156	31216	37817.4	37500.5
Chr2:6760060-6761418	1359	2976	3552	4302.82	4267.1
Chr2:6795727-6796808	1082	2782	7058	4022.33	8478.93
Chr2:7606384-7607452	1069	1928	2601	2787.58	3124.64
Chr2:7607595-7608737	1143	2849	1682	4119.2	2020.62
Chr2:8343889-8345013	1125	3414	8712	4936.1	10465.9
Chr2:13582025-13586312	4288	25208	35415	36446.7	42544.8
Chr2:19282892-19283498	607	1812	3713	2619.86	4460.51
Chr2:19469510-19470847	1338	7337	14268	10608.1	17140.5
Chr2:29633288-29635396	2109	8877	12356	12834.7	14843.5
Chr2:29635511-29635720	210	1233	2412	1782.72	2897.59
Chr2:29779279-29779835	557	1563	1982	2259.85	2381.02
Chr2:29781249-29782469	1221	4213	4070	6091.33	4889.38
Chr3:7207362-7208457	1096	1457	2240	2106.59	2690.96
Chr3:12711094-12711820	727	3514	1892	5080.68	2272.9
Chr3:17446092-17447056	965	1512	3015	2186.11	3621.99
Chr3:22406172-22407693	1522	4094	6813	5919.27	8184.61
Chr3:22407803-22408245	443	3207	1477	4636.81	1774.35
Chr3:22408374-22410031	1658	9996	14958	14452.6	17969.4
Chr3:24567201-24568605	1405	1547	1767	2236.72	2122.74
Chr3:24568877-24569967	1091	2032	1582	2937.95	1900.49
Chr3:24570108-24571360	1253	8992	9699	13001	11651.6
Chr3:24571486-24572742	1257	3243	1347	4688.86	1618.18
Chr3:24603917-24604988	1072	3840	3373	5552.03	4052.06
Chr3:26123815-26125355	1541	4064	6296	5875.9	7563.52
Chr3:27619566-27620339	774	4519	7518	6533.75	9031.54
Chr3:27620449-27620718	270	1615	1956	2335.03	2349.79
Chr3:29752343-29753108	766	1120	2377	1619.34	2855.54
Chr4:19682734-19683565	832	1861	1766	2690.71	2121.53
Chr4:20353634-20354745	1112	3432	5432	4962.12	6525.58
Chr4:35050627-35052675	2049	6060	13031	8761.79	15654.4
Chr5:1135610-1136163	554	1664	1636	2405.88	1965.36
Chr5:1136682-1138058	1377	5494	8078	7943.45	9704.28
Chr5:1681798-1682999	1202	8668	7282	12532.5	8748.03
Chr5:4826745-4827921	1177	4936	5945	7136.67	7141.86
Chr5:4828081-4829668	1588	3896	6086	5632.99	7311.24
Chr5:10917881-10920093	2213	6050	6815	8747.34	8187.01
Chr5:10920672-10921539	868	878	3720	1269.45	4468.92
Chr5:11242587-11245267	2681	17267	17846	24965.3	21438.8
Chr5:11245732-11246565	834	1700	2930	2457.93	3519.87
Chr5:16055522-16056984	1463	4339	5368	6273.5	6448.7
Chr5:25353784-25354107	324	1622	3193	2345.15	3835.82
Chr5:25354293-25356551	2259	20009	19150	28929.8	23005.3



Chr5:26873017-26874190	1174	3240	4279	4684.52	5140.46
Chr6:6077897-6080386	2490	16069	18224	23233.2	21892.9
Chr6:7535831-7536909	1079	1892	2189	2735.53	2629.69
Chr6:7537014-7537622	609	6839	7519	9888.1	9032.74
Chr6:7538323-7539394	1072	1866	3147	2697.94	3780.56
Chr6:11301685-11304877	3193	24664	31894	35660.2	38315
Chr6:13426951-13427609	659	5660	4824	8183.46	5795.18
Chr6:13427912-13430860	2949	22245	29534	32162.7	35479.8
Chr6:13430970-13432240	1271	2369	2155	3425.2	2588.85
Chr6:16892428-16893253	826	2106	963	3044.94	1156.87
Chr6:17674091-17674798	708	1756	1814	2538.9	2179.2
Chr6:19710389-19711766	1378	1145	3178	1655.49	3817.8
Chr6:20384471-20384850	380	1967	2013	2843.97	2418.26
Chr6:21225678-21227227	1550	2745	3824	3968.83	4593.85
Chr6:27802387-27803890	1504	2129	3009	3078.19	3614.78
Chr6:27805460-27806391	932	4687	6784	6776.65	8149.77
Chr6:27807201-27807559	359	2777	1775	4015.1	2132.35
Chr6:27807727-27808889	1163	3774	3936	5456.6	4728.4
Chr6:28516353-28517472	1120	4112	7372	5945.3	8856.14
Chr6:28517577-28517890	314	1759	3153	2543.23	3787.77
Chr6:29377012-29380350	3339	38442	53543	55581	64322.4
Chr7:999852-1000769	918	2068	1074	2990	1290.22
Chr7:4349415-4352710	3296	26302	38171	38028.5	45855.7
Chr7:4373867-4375891	2025	7866	8865	11373	10649.7
Chr7:8296498-8297585	1088	6463	8564	9344.47	10288.1
Chr7:15677012-15677890	879	4108	6106	5939.51	7335.27
Chr7:15714989-15715711	723	2389	3085	3454.11	3706.08
Chr7:15988106-15990391	2286	3681	4983	5322.14	5986.19
Chr7:20002141-20002806	666	3256	5696	4707.66	6842.73
Chr7:24243640-24243673	34	2276	2404	3290.73	2887.98
Chr7:26333237-26333261	25	3882	1270	5612.75	1525.68
Chr8:5778355-5779406	1052	1842	2964	2663.24	3560.72
Chr8:7667731-7668633	903	2722	1811	3935.58	2175.59
Chr8:7767913-7768467	555	1231	2880	1779.83	3459.81
Chr8:7768631-7769265	635	2075	1797	3000.12	2158.78
Chr8:7991188-7991898	711	2000	1476	2891.68	1773.15
Chr8:9445368-9447251	1884	8798	7822	12720.5	9396.74
Chr8:10495804-10497082	1279	2651	2510	3832.92	3015.32
Chr8:10497183-10497715	533	2867	2755	4145.22	3309.64
Chr8:10498104-10499006	903	1609	4455	2326.36	5351.89
Chr8:15455335-15458898	3564	21966	34086	31759.3	40948.3
Chr8:15459018-15462222	3205	25805	32779	37309.9	39378.1
Chr8:16976766-16978189	1424	3484	3550	5037.31	4264.69
Chr8:20981399-20983484	2086	7629	8878	11030.3	10665.3
Chr8:21691538-21694272	2735	8081	10269	11683.8	12336.4
Chr8:27145500-27146791	1292	2058	2817	2975.54	3384.12
Chr9:1293771-1295052	1282	3580	3650	5176.11	4384.82
Chr9:1295658-1296838	1181	5072	6749	7333.3	8107.72
Chr9:1297039-1297441	403	1840	2829	2660.35	3398.54
Chr9:3228857-3229750	894	1549	3611	2239.61	4337.97
Chr9:3229904-3230932	1029	2311	3798	3341.34	4562.62
Chr9:3515553-3516049	497	2491	3113	3601.59	3739.71
Chr9:12420612-12422305	1694	2113	4114	3055.06	4942.24
Chr9:15228668-15229487	820	3397	2397	4911.52	2879.57
Chr9:15230413-15231047	635	1989	2375	2875.78	2853.14
Chr9:16724057-16726642	2586	12227	16418	17678.3	19723.3

#### Bill-siRNA clusters in ovary without the egg cell

Region	Length	ovary without the egg cell-R1_reads	ovary without the egg cell-R2_reads	ovary without the egg cell-R1_RPTM	ovary without the egg cell-R2_RPTM
Chr1:2521732-2523864	2133	25792	27713	12743.7	12906.4
Chr1:2555230-2559488	4259	117278	121959	57946.3	56798.3
Chr1:9039469-9044839	5371	99102	104707	48965.7	48763.8
Chr1:9436039-9441447	5409	127699	134266	63095.3	62529.9
Chr1:10922454-10924142	1689	19058	19364	9416.44	9018.14
Chr1:10924269-10928133	3865	94029	102110	46459.1	47554.3
Chr1:11187953-11189724	1772	4081	4418	2016.4	2057.54
Chr1:11189849-11190961	1113	26810	28074	13246.7	13074.5
Chr1:11194472-11200782	6311	85568	89910	42278.6	41872.6
Chr1:11360842-11365015	4174	125122	131850	61822	61404.8
Chr1:11468957-11470040	1084	4341	4446	2144.86	2070.58
Chr1:11470426-11476572	6147	124839	136202	61682.2	63431.5
Chr1:12141609-12145052	3444	42954	45332	21223.3	21111.9
Chr1:14333307-14340220	6914	239314	254048	118244	118314
Chr1:14959357-14963605	4249	31559	33786	15593.1	15734.7
Chr1:16172286-16175087	2802	5397	5412	2666.62	2520.46
Chr1:20809793-20814418	4626	22562	23360	11147.7	10879.1
Chr1:21008411-21013112	4702	20818	22323	10286	10396.2
Chr1:25251535-25254062	2528	18455	19004	9118.5	8850.48
Chr1:25311931-25313593	1663	46192	49745	22823.2	23167.1
Chr1:26580919-26582394	1476	14889	15190	7356.56	7074.24
Chr1:28199338-28208011	8674	145728	154552	72003.3	71977.5
Chr1:28209610-28215997	6388	87100	91800	43035.6	42752.8

Chr1:29053251-29056279	3029	39794	42304	19662	19701.7
Chr1:30808356-30812188	3833	19972	21713	9868.04	10112.1
Chr1:38451520-38453329	1810	7283	7522	3598.48	3503.12
Chr1:39322744-39324043	1300	4622	4329	2283.7	2016.09
Chr10:401896-404258	2363	14738	15692	7281.95	7308.03
Chr10:707091-710421	3331	73556	78365	36343.6	36495.9
Chr10:3442273-3445803	3531	15044	16629	7433.14	7744.4
Chr10:5680286-5681100	815	4064	4552	2008	2119.94
Chr10:5927422-5933485	6064	139501	148796	68926.6	69296.8
Chr10:5933589-5934237	649	12298	13223	6076.36	6158.17
Chr10:11208741-11212837	4097	6272	6474	3098.96	3015.05
Chr10:15986188-15991421	5234	96484	100871	47672.1	46977.3
Chr10:16004085-16005176	1092	8536	9111	4217.58	4243.15
Chr10:16005552-16007432	1881	31814	35343	15719.1	16459.8
Chr10:20777019-20779416	2398	113607	121578	56132.5	56620.9
Chr11:2541243-2543960	2718	11251	11590	5559.05	5397.66
Chr11:3229550-3232287	2738	67343	70309	33273.7	32744.1
Chr11:7728254-7730775	2522	5204	5363	2571.26	2497.64
Chr11:7730927-7734524	3598	117447	124976	58029.8	58203.4
Chr11:7734625-7738644	4020	35328	37162	17455.3	17307
Chr11:7738747-7741713	2967	95366	100039	47119.7	46589.8
Chr11:7741872-7742581	710	5111	5383	2525.31	2506.95
Chr11:8911397-8913713	2317	8341	8805	4121.24	4100.64
Chr11:9698554-9701870	3317	5151	5230	2545.08	2435.7
Chr11:15465328-15468157	2830	4817	5358	2380.05	2495.31
Chr11:16330812-16332117	1306	7926	8130	3916.19	3786.28
Chr11:16332244-16336650	4407	182633	195401	90237.8	91001.5
Chr11:17164417-17170500	6084	60600	64927	29942.1	30237.6
Chr11:19254502-19256108	1607	6605	6951	3263.49	3237.2
Chr11:20707158-20709525	2368	22795	23395	11262.9	10895.4
Chr11:22336837-22342925	6089	25588	27563	12642.9	12836.6
Chr11:26270584-26272400	1817	11338	12645	5602.03	5888.99
Chr11:27016958-27019330	2373	13644	14267	6741.41	6644.38
Chr12:4729317-4736344	7028	179194	190803	88538.6	88860.1
Chr12:4736450-4737273	824	24049	26477	11882.5	12330.8
Chr12:4737375-4738238	864	6536	6957	3229.4	3239.99
Chr12:4898892-4904926	6035	79496	82498	39278.5	38420.7
Chr12:4912031-4918086	6056	71321	78018	35239.3	36334.3
Chr12:5024509-5027632	3124	5964	6040	2946.77	2812.93
Chr12:9062955-9066535	3581	42003	45331	20753.4	21111.4
Chr12:17500242-17505707	5466	92036	97679	45474.4	45490.7
Chr12:17984344-17989083	4740	49369	51788	24392.9	24118.5
Chr12:18861253-18866953	5701	58469	60505	28889.2	28178.2
Chr12:19232994-19236259	3266	10611	11316	5242.83	5270.05
Chr12:21104064-21108755	4692	17841	18604	8815.12	8664.19
Chr12:23677972-23679294	1323	9121	10066	4506.63	4687.9
Chr12:24727729-24734587	6859	245861	261174	121478	121633
Chr2:1371636-1372683	1048	4034	4433	1993.17	2064.52
Chr2:3700044-3702409	2366	5538	6218	2736.29	2895.83
Chr2:5901327-5907223	5897	184012	193662	90919.2	90191.6
Chr2:6759591-6763892	4302	34240	36178	16917.8	16848.7
Chr2:6795192-6797025	1834	31811	33256	15717.6	15487.9
Chr2:6797249-6798333	1085	14218	14342	7025.02	6679.31
Chr2:7604912-7609291	4380	49521	52816	24468	24597.3
Chr2:8343847-8349482	5636	58777	59609	29041.3	27760.9
Chr2:13139422-13139605	184	9032	10693	4462.65	4979.91
Chr2:13580566-13587717	7152	166166	177286	82101.6	82565.1
Chr2:14731925-14734996	3072	4658	4733	2301.49	2204.24
Chr2:19282158-19285083	2926	20127	22437	9944.62	10449.3
Chr2:19469359-19471985	2627	85198	90752	42095.8	42264.7
Chr2:29632213-29635840	3628	33514	35512	16559.1	16538.5
Chr2:29778338-29779853	1516	8168	8306	4035.76	3868.24
Chr2:29780011-29782774	2764	28809	31013	14234.3	14443.3
Chr2:33666809-33669145	2337	5582	6427	2758.03	2993.16
Chr3:7204980-7209458	4479	9794	10801	4839.15	5030.21
Chr3:10131626-10135220	3595	5586	6749	2760.01	3143.12
Chr3:12710048-12712968	2921	14962	15140	7392.63	7050.95
Chr3:15609540-15613989	4450	9495	9515	4691.42	4431.29
Chr3:16165123-16166316	1194	6870	7083	3394.42	3298.67
Chr3:16790754-16793684	2931	11280	11636	5573.38	5419.08
Chr3:17443800-17448110	4311	8285	8643	4093.57	4025.19
Chr3:19353012-19356617	3606	5957	6547	2943.32	3049.05
Chr3:20789900-20793672	3773	12978	13437	6412.35	6257.84
Chr3:22294438-22296091	1654	5391	6088	2663.66	2835.28
Chr3:22402927-22411016	8090	125392	133733	61955.4	62281.7
Chr3:24566476-24573767	7292	114465	120698	56556.4	56211.1
Chr3:24601609-24605533	3925	44726	46800	22098.8	21795.5
Chr3:26122885-26129251	6367	46363	50210	22907.7	23383.6
Chr3:26143572-26144672	1101	8143	8396	4023.4	3910.16
Chr3:27618891-27621672	2782	54256	56062	26807.5	26109
Chr3:28509601-28511671	2071	11802	13043	5831.29	6074.34
Chr3:29748836-29751620	2785	7512	7831	3711.63	3647.03
Chr3:29751734-29754695	2962	21294	22183	10521.2	10331
Chr4:11651843-11656585	4743	12867	14059	6357.5	6547.51
Chr4:19682184-19684644	2461	20203	21938	9982.17	10216.9
Chr4:20353577-20355903	2327	12826	12878	6337.25	5997.5
Chr4:23338306-23340568	2263	5438	5682	2686.88	2646.2
Chr4:27933005-27934489	1485	5932	6474	2930.96	3015.05

Chr4:35050584-35053521	2938	85988	89688	42486.1	41769.2
Chr5:661691-664101	2411	9504	9830	4695.87	4578
Chr5:1134949-1136537	1589	10082	9930	4981.45	4624.57
Chr5:1136676-1140186	3511	45340	48572	22402.2	22620.8
Chr5:1680136-1683572	3437	28844	30197	14251.6	14063.2
Chr5:2481362-2481985	624	6976	7499	3446.8	3492.41
Chr5:2775827-2775910	84	5699	5769	2815.84	2686.72
Chr5:4826150-4827939	1790	21199	23453	10474.3	10922.5
Chr5:4828053-4831638	3586	25460	26847	12579.6	12503.1
Chr5:10917366-10922456	5091	68917	70303	34051.5	32741.3
Chr5:11241193-11247100	5908	132179	140517	65308.8	65441.1
Chr5:16053876-16057988	4113	26728	27831	13206.1	12961.4
Chr5:19883443-19885047	1605	4851	5651	2396.85	2631.77
Chr5:25352931-25357226	4296	139747	146788	69048.1	68361.6
Chr5:26872169-26874574	2406	27974	29986	13821.8	13965
Chr5:27488831-27490515	1685	9545	9961	4716.12	4639
Chr6:1020770-1023328	2559	4717	5171	2330.64	2408.22
Chr6:1050396-1053374	2979	5912	6909	2921.08	3217.64
Chr6:6073665-6081727	8063	96037	101091	47451.3	47079.8
Chr6:7378759-7383285	4527	10260	11250	5069.4	5239.31
Chr6:7535649-7541170	5522	93699	98122	46296.1	45697.1
Chr6:11301673-11305097	3425	161179	173127	79637.5	80628.1
Chr6:13425328-13433837	8510	196334	213137	97007.4	99261.5
Chr6:13434156-13438338	4183	5645	5751	2789.16	2678.34
Chr6:17320147-17322325	2179	8080	8970	3992.28	4177.48
Chr6:17673998-17677275	3278	8734	9993	4315.41	4653.91
Chr6:18069265-18071348	2084	8028	8048	3966.58	3748.09
Chr6:19709920-19715677	5758	21992	21816	10866.1	10160.1
Chr6:20383589-20385536	1948	8648	8374	4272.92	3899.91
Chr6:21225648-21227449	1802	12728	13559	6288.82	6314.65
Chr6:27799303-27806512	7210	65115	69406	32172.9	32323.5
Chr6:27806630-27809096	2467	43843	47357	21662.5	22054.9
Chr6:28515521-28519245	3725	40263	43457	19893.7	20238.7
Chr6:29372555-29380618	8064	239188	257689	118181	120010
Chr7:864861-866126	1266	4254	4704	2101.87	2190.73
Chr7:996428-1000991	4564	13950	14861	6892.61	6921.02
Chr7:4348717-4353086	4370	160150	171141	79129.1	79703.2
Chr7:4372306-4376897	4592	70049	74399	34610.8	34648.9
Chr7:6414208-6415841	1634	8167	7708	4035.26	3589.74
Chr7:6988035-6988932	898	5105	5565	2522.35	2591.71
Chr7:8295276-8300948	5673	62364	66253	30813.7	30855.1
Chr7:15676149-15678935	2787	23479	23957	11600.8	11157.2
Chr7:15713035-15717883	4849	33304	35289	16455.3	16434.7
Chr7:15986539-15990993	4455	42495	44284	20996.5	20623.8
Chr7:16064531-16066301	1771	4387	4321	2167.59	2012.36
Chr7:18498538-18501295	2758	6141	6407	3034.23	2983.85
Chr7:19998919-20004643	5725	27779	29229	13725.4	13612.4
Chr7:23520036-23521984	1949	11359	12752	5612.41	5938.82
Chr7:27168790-27170489	1700	10326	10932	5102.01	5091.22
Chr7:28997880-28999201	1322	4914	5181	2427.98	2412.88
Chr8:5775724-5778224	2501	10691	11743	5282.36	5468.91
Chr8:5778349-5780487	2139	27402	30700	13539.2	14297.5
Chr8:7666904-7671942	5039	27089	28536	13384.5	13289.7
Chr8:7765914-7767565	1652	10041	11277	4961.19	5251.89
Chr8:7767691-7772582	4892	50567	53633	24984.8	24977.8
Chr8:7989823-7992612	2790	8171	9022	4037.24	4201.7
Chr8:8446510-8449684	3175	5260	5170	2598.93	2407.76
Chr8:9442911-9449183	6273	41629	43612	20568.6	20310.8
Chr8:10491721-10499795	8075	96617	103145	47737.8	48036.4
Chr8:15383732-15386857	3126	4612	5173	2278.76	2409.15
Chr8:15452050-15466199	14150	362337	379445	179028	176714
Chr8:16975293-16979494	4202	20760	21650	10257.4	10082.8
Chr8:20979660-20986590	6931	55691	57924	27516.6	26976.2
Chr8:21691320-21695444	4125	54903	56486	27127.2	26306.5
Chr8:27144980-27147526	2547	24077	24610	11896.3	11461.3
Chr9:1292302-1298579	6278	32420	34405	16018.5	16023
Chr9:3227716-3231468	3753	28589	30363	14125.6	14140.6
Chr9:3512136-3519406	7271	13851	14403	6843.69	6707.72
Chr9:12177632-12184663	7032	12668	14221	6259.18	6622.96
Chr9:12418936-12426852	7917	29988	31641	14816.9	14735.7
Chr9:12621273-12623420	2148	12137	13656	5996.81	6359.83
Chr9:15227970-15231916	3947	38764	40419	19153	18823.8
Chr9:16722326-16726841	4516	100536	105521	49674.2	49142.9
Chr9:17428605-17430531	1927	5391	5557	2663.66	2587.99

#### Bill-siRNA clusters in sperm

Region	Length	sperm-R1_reads	sperm-R2_reads	sperm-R1_RPTM	sperm-R2_RPTM
Chr1:5832452-5832480	29	5350	6150	2640.2	2560.06
Chr1:13389750-13392539	2790	98563	117174	48640.3	48776.1
Chr1:22638789-22639134	346	20194	25041	9965.63	10423.8
Chr1:22639312-22639986	675	25265	31011	12468.1	12909
Chr10:4833469-4833493	25	22021	25793	10867.3	10736.9
Chr10:4833653-4833734	82	6671	8866	3292.1	3690.65

Chr10:5733760-5733795	36	8784	11139	4334.86	4636.84
Chr10:5863937-5864726	790	6078	7129	2999.46	2967.59
Chr10:11842695-11843341	647	5847	6282	2885.46	2615.01
Chr10:11861538-11861955	418	8629	11399	4258.37	4745.07
Chr10:11872745-11872979	235	4313	6022	2128.44	2506.78
Chr10:12917830-12918270	441	8877	13950	4380.75	5806.97
Chr11:2525476-2525850	375	4500	6436	2220.73	2679.12
Chr11:6404058-6404508	451	8499	7672	4194.21	3193.63
Chr11:6404612-6404765	154	6847	7216	3378.96	3003.81
Chr11:9962541-9962695	155	4005	5932	1976.45	2469.32
Chr11:12039479-12045573	6095	7935	9516	3915.88	3961.23
Chr11:12082057-12091313	9257	11506	13319	5678.15	5544.31
Chr11:12091434-12098260	6827	7798	9409	3848.27	3916.69
Chr11:12098377-12105542	7166	8366	10201	4128.58	4246.37
Chr11:12108857-12112490	3634	4192	5157	2068.73	2146.71
Chr11:12112628-12116000	3373	5205	5936	2568.64	2470.98
Chr11:12117578-12122235	4658	6989	8787	3449.04	3657.77
Chr11:12152601-12157037	4437	4827	6385	2382.1	2657.89
Chr11:12159598-12163159	3562	4296	5263	2120.05	2190.83
Chr11:12277524-12280220	2697	4484	6251	2212.83	2602.11
Chr11:25567052-25567443	392	17384	20785	8578.91	8652.18
Chr12:9355716-9356887	1172	21288	25103	10505.5	10449.6
Chr12:10451711-10452799	1089	10719	12113	5289.77	5042.28
Chr12:10452944-10454043	1100	7906	10469	3901.57	4357.93
Chr12:22728962-22729161	200	6610	7011	3262	2918.47
Chr12:22757840-22757936	97	5555	7987	2741.36	3324.75
Chr2:6004101-6004463	363	7493	9655	3697.76	4019.09
Chr2:6858743-6859225	483	6363	8911	3140.11	3709.39
Chr2:7682570-7682849	280	4809	4883	2373.22	2032.65
Chr2:11111727-11114974	3248	60839	62512	30023.7	26021.9
Chr3:7365210-7366325	1116	8620	9321	4253.93	3880.06
Chr3:7366446-7367619	1174	6664	9251	3288.65	3850.92
Chr3:28646237-28646388	152	3703	6759	1827.41	2813.57
Chr4:12225786-12225902	117	4138	4963	2042.08	2065.95
Chr5:7442444-7444284	1841	4684	4898	2311.53	2038.89
Chr5:8700746-8702511	1766	18620	20466	9188.87	8519.39
Chr5:9162850-9164714	1865	8732	8303	4309.2	3456.29
Chr5:10952586-10952876	291	4086	6353	2016.42	2644.57
Chr5:19929254-19929538	285	4933	4001	2434.41	1665.5
Chr5:22687899-22688158	260	12326	12537	6082.82	5218.78
Chr6:7908551-7909362	812	6120	8690	3020.19	3617.39
Chr6:12837394-12838523	1130	63572	73822	31372.5	30729.9
Chr6:13330470-13330579	110	6030	6920	2975.77	2880.59
Chr6:25366430-25367236	807	5558	6135	2742.84	2553.82
Chr6:25428084-25428691	608	10874	12182	5366.26	5071.01
Chr6:25516864-25517510	647	5557	9093	2742.35	3785.15
Chr7:20909662-20911024	1363	28409	35936	14019.7	14959.1
Chr7:26333237-26333320	84	11365	12283	5608.57	5113.05
Chr8:808546-809249	704	10868	11481	5363.3	4779.2
Chr8:812059-812362	304	11407	14497	5629.3	6034.67
Chr8:7856645-7857710	1066	5883	3734	2903.23	1554.35
Chr8:17680393-17681092	700	41804	64556	20630.1	26872.8
Chr8:17681885-17684563	2679	73033	91687	36041.4	38166.6
Chr8:23993800-23994189	390	4826	6967	2381.61	2900.16
Chr9:309524-310691	1168	4016	5861	1981.88	2439.76
Chr9:311098-312110	1013	8130	6558	4012.11	2729.9
Chr9:3963462-3964322	861	6532	7057	3223.51	2937.62
Chr9:10835754-10836624	871	19085	18591	9418.35	7738.88
Chr9:10836802-10837433	632	9590	17086	4732.62	7112.4

#### Bill-siRNA clusters in vegetative cell

Region	Length	vegetative cell- R1_reads	vegetative cell- R2_reads	vegetative cell- R1_RPTM	vegetative cell- R2_RPTM
Chr1:13389841-13392431	2591	42874	31025	29271	27469.8
Chr1:22638784-22639174	391	4603	3124	3142.56	2766.01
Chr1:22639283-22640026	744	10467	5700	7146.04	5046.82
Chr11:6403919-6404765	847	10662	7119	7279.17	6303.22
Chr11:25567052-25567581	530	6572	3772	4486.84	3339.76
Chr12:4730782-4736293	5512	3647	2059	2489.88	1823.05
Chr12:9355710-9356884	1175	4451	3148	3038.79	2787.26
Chr12:10451673-10454043	2371	3558	2186	2429.12	1935.5
Chr2:6003909-6004485	577	5938	4642	4054	4110.06
Chr2:11111727-11114965	3239	14248	10348	9727.41	9162.2
Chr5:26275526-26276139	614	3588	2654	2449.6	2349.87
Chr6:12837392-12838522	1131	20289	13776	13851.7	12197.4
Chr6:13330468-13330579	112	4667	3003	3186.26	2658.88
Chr6:25428029-25428706	678	4555	3617	3109.79	3202.52
Chr7:20909511-20911196	1686	7313	5629	4992.74	4983.96
Chr8:15455302-15462222	6921	5897	3758	4026	3327.36
Chr8:17680076-17680964	889	4615	3205	3150.76	2837.73
Chr8:17681903-17684574	2672	40693	31218	27782	27640.7

Bill-siRNA clusters in Nipponbare embryo

Region	Length	embryo_reads	embryo_RPTM
Chr4:19715479-19715586	108	6346	3121.91
Chr7:136115-139833	3719	15007	7382.67
Chr8:20239410-20241532	2123	15660	7703.92
Chr8:20243047-20245138	2092	16741	8235.71
Chr12:9355653-9356898	1246	7987	3929.19

Bill-siRNA clusters in Nipponbare endosperm

Region	Length	endosperm_reads	endosperm_RPTM
Chr1:3699712-3703446	3735	3088	2185.19
Chr1:4260932-4268040	7109	12279	8689.1
Chr1:4776252-4781931	5680	3092	2188.02
Chr1:5577127-5590843	13717	38328	27122.4
Chr1:5594143-5597892	3750	8181	5789.19
Chr1:7151897-7157057	5161	3562	2520.61
Chr1:7159014-7167085	8072	34987	24758.2
Chr1:7170133-7174133	4001	4886	3457.52
Chr1:7536240-7540264	4025	5069	3587.02
Chr1:7541343-7547109	5767	9135	6464.28
Chr1:8599429-8604337	4909	51444	36403.8
Chr1:13950072-13957986	7915	30784	21784
Chr1:14130361-14130667	307	4090	2894.24
Chr1:18516522-18519391	2870	4642	3284.86
Chr1:20862907-20865552	2646	3502	2478.15
Chr1:22833158-22841076	7919	15182	10743.4
Chr1:23310763-23312834	2072	4489	3176.59
Chr1:23382930-23389754	6825	13634	9647.95
Chr1:23395248-23400986	5739	20031	14174.7
Chr1:26558643-26564521	5879	6055	4284.75
Chr1:26924199-26932111	7913	47067	33306.4
Chr1:32308796-32314030	5235	23594	16696
Chr1:37168571-37173029	4459	11684	8268.05
Chr1:38341385-38348660	7276	45696	32336.3
Chr1:40437030-40441825	4796	5386	3811.34
Chr1:40539621-40546418	6798	25431	17996
Chr1:42568754-42574755	6002	8000	5661.11
Chr2:6772541-6780956	8416	24542	17366.9
Chr2:6781277-6783956	2680	3012	2131.41
Chr2:7635652-7642634	6983	4968	3515.55
Chr2:8587388-8593367	5980	5260	3722.18
Chr2:9855067-9859230	4164	7819	5533.03
Chr2:9860949-9863940	2992	8209	5809.01
Chr2:11488559-11501617	13059	55429	39223.7
Chr2:11897062-11902896	5835	3192	2258.78
Chr2:14456000-14459752	3753	3566	2523.44
Chr2:14923617-14926067	2451	5082	3596.22
Chr2:17351656-17362573	10918	72826	51534.5
Chr2:29053895-29058370	4476	8298	5871.99
Chr2:30333408-30334387	980	3882	2747.05
Chr2:33157188-33162071	4884	11246	7958.11
Chr2:34010148-34015864	5717	3017	2134.95
Chr3:6510677-6511004	328	24331	17217.6
Chr3:9280806-9283054	2249	4789	3388.88
Chr3:9283171-9285763	2593	4241	3001.1
Chr3:12908213-12909522	1310	4852	3433.46
Chr3:12909670-12911722	2053	5808	4109.97
Chr3:12967070-12976657	9588	48620	34405.4
Chr3:13250042-13256116	6075	9695	6860.56
Chr3:16602800-16605557	2758	3620	2561.65
Chr3:16864791-16871680	6890	4489	3176.59
Chr3:17902445-17908218	5774	4337	3069.03
Chr3:17908331-17911816	3486	4759	3367.65
Chr3:25176521-25180837	4317	3688	2609.77
Chr3:27070415-27073544	3130	6198	4385.95
Chr3:32609748-32614193	4446	5019	3551.64
Chr3:36125868-36131839	5972	8391	5937.8
Chr4:1745684-1747360	1677	4161	2944.48
Chr4:4588040-4593805	5766	49849	35275.1
Chr4:4600073-4608106	8034	27628	19550.6
Chr4:5474890-5477996	3107	4726	3344.3
Chr4:5491394-5497324	5931	7169	5073.06
Chr4:11672651-11677517	4867	11815	8360.75
Chr4:12622611-12630837	8227	9950	7041.01
Chr4:16872735-16879711	6977	3043	2153.34
Chr4:16880431-16887050	6620	4942	3497.15
Chr4:18421939-18426415	4477	11786	8340.23
Chr4:18427336-18433949	6614	18601	13162.8
Chr4:19448581-19453108	4528	9656	6832.96
Chr4:19715121-19715243	123	2985	2112.3
Chr4:19715477-19715584	108	16756	11857.2
Chr4:21858330-21863964	5635	4352	3079.64
Chr4:26769647-26774571	4925	38271	27082

Chr4:29781853-29785951	4099	5801	4105.01
Chr4:31205978-31211720	5743	4538	3211.26
Chr4:35113702-35118644	4943	19380	13714
Chr5:543044-548100	5057	14696	10399.5
Chr5:1510257-1513811	3555	6169	4365.42
Chr5:5538679-5543298	4620	10831	7664.44
Chr5:7102550-7109275	6726	6013	4255.03
Chr5:7113669-7118855	5187	6215	4397.97
Chr5:7190890-7197442	6553	8407	5949.12
Chr5:10973694-10977337	3644	4188	2963.59
Chr5:13579598-13584409	4812	6180	4373.21
Chr5:13585373-13587312	1940	3393	2401.02
Chr5:15192220-15196447	4228	7004	4956.3
Chr5:18200643-18207204	6562	4536	3209.85
Chr5:18226942-18233386	6445	40403	28590.7
Chr5:18244531-18252770	8240	25278	17887.7
Chr5:19267295-19273494	6200	9029	6389.27
Chr5:19273621-19279216	5596	17550	12419.1
Chr5:19704862-19710624	5763	6415	4539.5
Chr5:20042720-20045331	2612	3267	2311.86
Chr5:20466930-20470587	3658	4773	3377.56
Chr5:22114552-22116524	1973	7032	4976.12
Chr5:23709449-23716203	6755	10910	7720.34
Chr5:24463339-24468826	5488	7231	5116.94
Chr5:25076795-25080541	3747	2945	2084
Chr5:26923669-26926976	3308	3013	2132.12
Chr5:28641134-28646017	4884	8580	6071.54
Chr6:518788-521036	2249	2895	2048.61
Chr6:2598764-2603873	5110	7149	5058.91
Chr6:2604838-2613043	8206	49217	34827.9
Chr6:3724722-3731040	6319	6602	4671.83
Chr6:3748674-3758502	9829	30767	21771.9
Chr6:4974281-4975759	1479	3650	2582.88
Chr6:6214351-6218208	3858	17152	12137.4
Chr6:6420437-6435842	15406	68726	48633.2
Chr6:12657135-12657443	309	3831	2710.96
Chr6:12764609-12767052	2444	4785	3386.05
Chr6:13329784-13329990	207	5731	4055.48
Chr6:19501840-19512759	10920	13463	9526.94
Chr6:19597247-19606841	9595	8372	5924.35
Chr6:20991318-20996023	4706	12466	8821.42
Chr6:21837740-21841292	3553	5536	3917.49
Chr6:25785609-25794475	8867	50216	35534.8
Chr6:30880570-30885135	4566	4171	2951.56
Chr6:30926407-30932387	5981	19260	13629.1
Chr6:30934501-30939773	5273	8385	5933.55
Chr7:136275-139649	3375	4841	3425.68
Chr7:1041444-1046253	4810	8510	6022.01
Chr7:1299133-1302117	2985	10795	7638.96
Chr7:4703562-4710912	7351	40300	28517.8
Chr7:4988775-4999808	11034	79906	56544.6
Chr7:6774867-6785518	10652	9439	6679.4
Chr7:7211617-7219281	7665	34415	24353.4
Chr7:8047974-8058021	10048	27939	19770.7
Chr7:9122576-9122797	222	4339	3070.44
Chr7:11005330-11016894	11565	40357	28558.2
Chr7:18661509-18666987	5479	3239	2292.04
Chr7:21685635-21694444	8810	47235	33425.3
Chr7:21708832-21711565	2734	3080	2179.53
Chr7:21714059-21720752	6694	79544	56288.4
Chr7:21834761-21840963	6203	12766	9033.72
Chr7:22527588-22531198	3611	6303	4460.25
Chr7:28193106-28200419	7314	29072	20572.5
Chr8:818500-822923	4424	4599	3254.43
Chr8:1614778-1618869	4092	5696	4030.71
Chr8:1627895-1633355	5461	22629	16013.2
Chr8:4308030-4312675	4646	7468	5284.65
Chr8:4366038-4369562	3525	2865	2027.39
Chr8:4372421-4379910	7490	11311	8004.1
Chr8:4380033-4383161	3129	4513	3193.57
Chr8:5165968-5170308	4341	3965	2805.79
Chr8:5172680-5177696	5017	8719	6169.9
Chr8:7662701-7673315	10615	37907	26824.5
Chr8:7694562-7701713	7152	6426	4547.29
Chr8:8702584-8703105	522	100427	71066
Chr8:9051839-9057509	5671	4262	3015.96
Chr8:10866521-10873299	6779	34454	24381
Chr8:10882220-10889865	7646	8612	6094.19
Chr8:10890038-10894831	4794	22744	16094.5
Chr8:14965911-14970477	4567	11771	8329.62
Chr8:17184421-17189346	4926	8890	6290.91
Chr8:17666819-17669871	3053	5229	3700.24
Chr8:17701283-17712303	11021	14545	10292.6
Chr8:17721765-17726019	4255	5375	3803.56
Chr8:20987966-20993398	5433	9819	6948.31
Chr8:21004031-21009540	5510	9286	6571.13
Chr8:21423862-21432609	8748	22904	16207.8
Chr8:22037072-22047584	10513	9289	6573.26

Chr8:22080687-22089312	8626	26032	18421.3
Chr8:22329945-22331794	1850	3672	2598.45
Chr8:22467034-22473077	6044	41086	29074
Chr8:22503701-22508998	5298	44804	31705
Chr8:22821605-22829085	7481	4504	3187.2
Chr9:1014-37759	36746	30953	21903.5
Chr9:1070370-1078318	7949	6533	4623
Chr9:1183588-1192199	8612	6448	4562.85
Chr9:1195496-1201177	5682	15076	10668.4
Chr9:1228561-1235121	6561	3871	2739.27
Chr9:4617635-4619977	2343	2974	2104.52
Chr9:5765708-5768851	3144	3211	2272.23
Chr9:5769277-5780934	11658	37980	26876.1
Chr9:6465808-6470439	4632	3454	2444.18
Chr9:6544064-6554889	10826	32539	23025.9
Chr9:8572142-8577814	5673	4159	2943.07
Chr9:12921772-12925470	3699	2842	2011.11
Chr9:14441072-14448242	7171	18801	13304.3
Chr9:15991281-15995684	4404	11023	7800.3
Chr9:16533117-16542149	9033	98950	70020.9
Chr9:17592956-17603158	10203	36464	25803.3
Chr9:18114403-18120398	5996	3440	2434.28
Chr9:18963880-18967002	3123	5266	3726.43
Chr9:19226656-19231907	5252	16684	11806.2
Chr9:19305089-19309195	4107	3712	2626.76
Chr9:19532886-19539445	6560	41387	29287
Chr9:20616681-20622422	5742	24416	17277.7
Chr9:21044077-21044386	310	8398	5942.75
Chr9:21045164-21045661	498	3746	2650.81
Chr9:21245909-21252086	6178	10266	7264.62
Chr9:22069975-22075683	5709	4377	3097.33
Chr10:2397960-2423525	25566	195271	138181
Chr10:2727541-2733712	6172	33564	23751.2
Chr10:2901761-2906633	4873	3509	2483.1
Chr10:4833918-4834134	217	3160	2236.14
Chr10:6928550-6928893	344	5466	3867.95
Chr10:7297355-7304894	7540	14379	10175.1
Chr10:12012669-12016454	3786	7303	5167.89
Chr10:13749032-13758836	9805	24783	17537.4
Chr11:2911079-2921919	10841	9322	6596.61
Chr11:3993091-4002573	9483	129021	91300.3
Chr11:4894957-4906014	11058	22607	15997.6
Chr11:10854855-10859224	4370	4057	2870.89
Chr11:11684803-11691018	6216	13485	9542.51
Chr11:12180073-12187686	7614	3512	2485.23
Chr11:12277522-12282433	4912	8660	6128.15
Chr11:15737744-15740540	2797	5327	3769.59
Chr11:16131029-16133470	2442	3294	2330.96
Chr11:17860045-17865726	5682	8087	5722.67
Chr11:18312134-18317187	5054	19221	13601.5
Chr11:19099035-19109418	10384	4667	3302.55
Chr11:21704245-21704368	124	5717	4045.57
Chr11:25021244-25028096	6853	4112	2909.81
Chr11:26689012-26694756	5745	2860	2023.85
Chr11:28914356-28918364	4009	10390	7352.37
Chr12:1813844-1817700	3857	4483	3172.34
Chr12:2869401-2882809	13409	42183	29850.3
Chr12:2893186-2897946	4761	3276	2318.22
Chr12:3095465-3099872	4408	10013	7085.59
Chr12:5575371-5579072	3702	2886	2042.25
Chr12:6399784-6403003	3220	3920	2773.94
Chr12:7743899-7747741	3843	2834	2005.45
Chr12:8656069-8658444	2376	15668	11087.3
Chr12:9355605-9356892	1288	4234	2996.14
Chr12:10112258-10125312	13055	45254	32023.5
Chr12:10176952-10184213	7262	27653	19568.3
Chr12:10337265-10341384	4120	3520	2490.89
Chr12:18660081-18660284	204	2867	2028.8
Chr12:19319837-19325505	5669	12898	9127.12
Chr12:19327241-19329934	2694	3564	2522.02
Chr12:19362489-19362966	478	4788	3388.17
Chr12:19373296-19377539	4244	28017	19825.9
Chr12:19377644-19380316	2673	24063	17027.9
Chr12:19389554-19392520	2967	4816	3407.99
Chr12:19401064-19414731	13668	96285	68135
Chr12:20876091-20884262	8172	9886	6995.72
Chr12:24879829-24882413	2585	3836	2714.5

#### Bill-siRNA clusters in TP309 seedling

Region	Length	TP309 seedling- R1_reads	TP309 seedling- R2_reads	TP309 seedling- R1_RPTM	TP309 seedling- R2_RPTM
Chr10:4833387-4833506	120	6283	5580	4548.56	4392.75
Chr12:9355709-9356884	1176	4105	4191	2971.8	3299.29
Chr2:1553148-1553255	108	14825	15457	10732.5	12168.2

Chr2:6001244-6001995	752	5985	24	4332.82	18.8935
Chr2:8522078-8522111	34	6253	7836	4526.84	6168.74
Chr3:30515079-30515181	103	2716	3188	1966.24	2509.69
Chr4:19715121-19715307	187	4394	5097	3181.02	4012.52
Chr4:19715477-19715702	226	4102	5200	2969.63	4093.6
Chr6:13330447-13330641	195	2941	3135	2129.13	2467.97
Chr6:21165722-21165845	124	6153	3246	4454.45	2555.35
Chr7:136223-139657	3435	8894	9437	6438.79	7429.1
Chr8:9193708-9194236	529	3503	3854	2535.99	3033.99

# Bill-siRNA clusters in TP309 inflorescence

Region	Length	TP309 inflorescence- R1_reads	TP309 inflorescence- R2_reads	TP309 inflorescence- R1_RPTM	TP309 inflorescence- R2_RPTM
Chr1:2521832-2525868	4037	4068	4307	4557.31	4406.17
Chr1:2555533-2560396	4864	16889	16059	18920.4	16428.8
Chr1:9039407-9044856	5450	12799	8997	14338.5	9204.16
Chr1:9435855-9439656	3802	23905	23598	26780.3	24141.4
Chr1:10921554-10924098	2545	6653	6551	7453.23	6701.84
Chr1:10924269-10926494	2226	13817	15319	15478.9	15671.7
Chr1:11189858-11191482	1625	4329	3463	4849.7	3542.74
Chr1:11194285-11200503	6219	12863	15561	14410.2	15919.3
Chr1:11360853-11365225	4373	22545	24885	25256.7	25458
Chr1:11470340-11475439	5100	26501	28745	29688.6	29406.9
Chr1:12139282-12145475	6194	5761	5565	6453.94	5693.14
Chr1:14333189-14340569	7381	39838	45119	44629.8	46157.9
Chr1:14959401-14964483	5083	5822	6774	6522.28	6929.97
Chr1:20809576-20814772	5197	12859	12792	14405.7	13086.5
Chr1:21008538-21015105	6568	4591	4683	5143.21	4790.83
Chr1:25251600-25254709	3110	2623	3009	2938.5	3078.28
Chr1:25311726-25313682	1957	4825	5967	5405.36	6104.39
Chr1:26580342-26582385	2044	1971	1763	2208.07	1803.59
Chr1:28199280-28206541	7262	40936	38693	45859.8	39583.9
Chr1:28209600-28216678	7079	18496	19053	20720.7	19491.7
Chr1:29052999-29057508	4510	6750	8897	7561.9	9101.86
Chr1:30808064-30812188	4125	4696	5441	5260.84	5566.28
Chr10:706462-709675	3214	6897	6941	7726.58	7100.82
Chr10:3440843-3446855	6013	7091	6580	7943.92	6731.51
Chr10:5924603-5934240	9638	34696	34056	38869.3	34840.2
Chr10:15985585-15991286	5702	15528	18748	17395.7	19179.7
Chr10:16003040-16005183	2144	3782	6529	4236.9	6679.33
Chr10:16005550-16007065	1516	7279	9390	8154.53	9606.21
Chr10:20776661-20779960	3300	7340	9384	8222.87	9600.07
Chr11:2541020-2543933	2914	3082	4910	3452.71	5023.05
Chr11:3230045-3233132	3088	13512	14744	15137.2	15083.5
Chr11:7332520-7335712	3193	3052	3039	3419.1	3108.97
Chr11:7731055-7741761	10707	61583	65288	68990.3	66791.3
Chr11:8910215-8915580	5366	1960	2352	2195.75	2406.16
Chr11:16329892-16336817	6926	44462	50405	49810	51565.6
Chr11:17164428-17170275	5848	11077	9748	12409.4	9972.45
Chr11:20706555-20709432	2878	9473	11030	10612.4	11284
Chr11:22338292-22343006	4715	3721	3101	4168.57	3172.4
Chr11:24387252-24394638	7387	26102	31136	29241.6	31852.9
Chr11:27016567-27019285	2719	4296	5513	4812.73	5639.94
Chr12:4726893-4738687	11795	53586	56898	60031.4	58208.1
Chr12:4898719-4904134	5416	16599	16300	18595.6	16675.3
Chr12:4911981-4917807	5827	17264	16812	19340.5	17199.1
Chr12:5024937-5028201	3265	2398	1787	2686.44	1828.15
Chr12:9061792-9066505	4714	3574	3496	4003.89	3576.5
Chr12:17499964-17504299	4336	19005	22375	21290.9	22890.2
Chr12:17984443-17989007	4565	11734	14537	13145.4	14871.7
Chr12:18392996-18397217	4222	3548	3820	3974.76	3907.96
Chr12:18860689-18866408	5720	16516	17835	18502.6	18245.7
Chr12:24724489-24735566	11078	51876	53574	58115.7	54807.6
Chr2:1553148-1553331	184	13059	9198	14629.8	9409.79
Chr2:3700051-3702962	2912	1816	1958	2034.43	2003.08
Chr2:5900026-5907024	6999	25295	28839	28337.5	29503
Chr2:6759230-6764148	4919	11252	13464	12605.4	13774
Chr2:6795066-6797015	1950	9726	12171	10895.9	12451.2
Chr2:6797248-6798611	1364	4140	5380	4637.97	5503.88
Chr2:7604967-7611993	7027	12270	16746	13745.9	17131.6
Chr2:8343289-8346969	3681	13686	13658	15332.2	13972.5
Chr2:8522078-8522114	37	3281	4911	3675.64	5024.08
Chr2:8525127-8525258	132	1685	2169	1887.67	2218.94
Chr2:13580496-13582726	2231	1895	2670	2122.93	2731.48
Chr2:13582836-13584440	1605	9026	8408	10111.7	8601.6
Chr2:13584554-13586358	1805	8089	7306	9061.96	7474.22
Chr2:19469359-19471202	1844	18687	15022	20934.7	15367.9
Chr2:29633230-29636007	2778	4345	3970	4867.62	4061.41
Chr2:29777060-29783149	6090	5914	8091	6625.34	8277.3
Chr2:33848550-33850734	2185	1638	2343	1835.02	2396.95
Chr3:15609571-15614403	4833	2149	3033	2407.48	3102.84
Chr3:16790294-16793977	3684	1793	2251	2008.66	2302.83
Chr3:19352770-19356619	3850	1653	2309	1851.83	2362.17



Chr3:22402915-22411469	8555	29819	28889	33405.7	29554.2
Chr3:24566448-24574132	7685	25154	30221	28179.6	30916.9
Chr3:24600910-24606911	6002	10296	11782	11534.4	12053.3
Chr3:26123026-26126247	3222	11966	12659	13405.3	12950.5
Chr3:27616647-27619389	2743	1759	2337	1970.58	2390.81
Chr3:27619512-27621777	2266	6852	8278	7676.17	8468.6
Chr3:28510208-28511760	1553	1803	1974	2019.87	2019.45
Chr3:29749941-29755991	6051	3523	2848	3946.75	2913.58
Chr4:11651745-11657119	5375	3520	4442	3943.39	4544.28
Chr4:19681434-19685210	3777	6360	8610	7124.99	8808.25
Chr4:35049575-35053502	3928	20001	25287	22406.8	25869.2
Chr5:661602-664198	2597	2424	2354	2715.56	2408.2
Chr5:1132551-1140459	7909	13864	16924	15531.6	17313.7
Chr5:1680404-1684309	3906	8537	10355	9563.84	10593.4
Chr5:4825918-4831618	5701	9748	9163	10920.5	9373.98
Chr5:10916929-10920211	3283	9925	10031	11118.8	10262
Chr5:10920336-10923004	2669	2396	2768	2684.19	2831.73
Chr5:11242416-11247138	4723	30244	33801	33881.8	34579.3
Chr5:16055425-16058035	2611	6433	6468	7206.77	6616.93
Chr5:25352167-25357744	5578	40804	41812	45712	42774.7
Chr5:26871506-26874206	2701	7366	7569	8251.99	7743.28
Chr6:6078050-6082881	4832	12068	12585	13519.6	12874.8
Chr6:7535134-7539311	4178	18301	20073	20502.3	20535.2
Chr6:11299542-11306993	7452	20105	22132	22523.3	22641.6
Chr6:13424874-13438632	13759	57430	61030	64337.8	62435.2
Chr6:17320172-17323420	3249	1919	2584	2149.82	2643.5
Chr6:19709920-19712027	2108	3220	4041	3607.31	4134.05
Chr6:21224117-21227496	3380	3291	4336	3686.85	4435.84
Chr6:25366408-25367056	649	384	3936	430.188	4026.63
Chr6:27798388-27809478	11091	28375	27040	31788	27662.6
Chr6:28515631-28518627	2997	5120	5812	5735.84	5945.82
Chr6:29376919-29380614	3696	29860	31602	33451.6	32329.6
Chr7:996134-1001319	5186	3115	3802	3489.68	3889.54
Chr7:4346893-4353143	6251	30246	34305	33884	35094.9
Chr7:4372372-4376295	3924	22196	21356	24865.8	21847.7
Chr7:8295232-8301023	5792	13472	13136	15092.4	13438.5
Chr7:15712890-15717884	4995	6565	7538	7354.65	7711.57
Chr7:15986459-15991194	4736	9959	12056	11156.9	12333.6
Chr7:19999640-20006845	7206	7336	8111	8218.38	8297.76
Chr7:23519976-23522197	2222	3520	8777	3943.39	8979.09
Chr7:27168754-27170310	1557	1566	2486	1754.36	2543.24
Chr8:5775694-5780872	5179	10368	11010	11615.1	11263.5
Chr8:7667653-7671657	4005	4239	4141	4748.87	4236.35
Chr8:7762820-7770869	8050	17656	19947	19779.7	20406.3
Chr8:9442951-9449260	6310	8439	5604	9454.06	5733.03
Chr8:10491753-10502270	10518	22145	27207	24808.6	27833.5
Chr8:15452052-15462294	10243	67464	76165	75578.7	77918.7
Chr8:16973609-16979484	5876	7310	9303	8189.26	9517.21
Chr8:20978664-20986591	7928	12987	11991	14549.1	12267.1
Chr8:21691353-21695461	4109	9967	10080	11165.8	10312.1
Chr8:27145002-27147836	2835	5669	6646	6350.88	6799.03
Chr9:1292223-1297850	5628	6319	6102	7079.06	6242.5
Chr9:3227798-3229695	1898	1943	2916	2176.71	2983.14
Chr9:3229897-3231862	1966	2222	3441	2489.27	3520.23
Chr9:9556895-9558464	1570	2689	2822	3012.44	2886.98
Chr9:12420620-12427040	6421	3341	6587	3742.86	6738.67
Chr9:12621912-12623506	1595	2234	2984	2502.71	3052.71
Chr9:15228009-15232300	4292	3975	4498	4453.12	4601.57
Chr9:16723081-16727621	4541	27519	32411	30829	33157.3

# Bill-siRNA clusters in TP309 endosperm

Region	Length	TP309	TP309
		endosperm_reads	endosperm_RPTM
Chr1:2555817-2559537	3721	1866	2360.25
Chr1:3699714-3703754	4041	2659	3363.29
Chr1:4261876-4267470	5595	5786	7318.53
Chr1:5577343-5580874	3532	6283	7947.17
Chr1:5581730-5589870	8141	18767	23737.8
Chr1:7152190-7157133	4944	3849	4868.48
Chr1:7158856-7166897	8042	23247	29404.4
Chr1:7170230-7174138	3909	3698	4677.49
Chr1:7537357-7540212	2856	3591	4542.14
Chr1:7541440-7547107	5668	7642	9666.13
Chr1:8599564-8604129	4566	30365	38407.7
Chr1:9436219-9439656	3438	2067	2614.48
Chr1:10924271-10926494	2224	1600	2023.79
Chr1:11360931-11363743	2813	1954	2471.55
Chr1:11470747-11475396	4650	2807	3550.49
Chr1:13956842-13958367	1526	2168	2742.24
Chr1:14333331-14335954	2624	1621	2050.35
Chr1:18516962-18519248	2287	4813	6087.81
Chr1:22834155-22840290	6136	12641	15989.2
Chr1:23310769-23311842	1074	3412	4315.73
Chr1:23383832-23389553	5722	8838	11178.9

Chr1:23395273-23399801	4529	13254	16764.6
Chr1:23399986-23400995	1010	1916	2423.49
Chr1:23401097-23403318	2222	1929	2439.93
Chr1:26924287-26931228	6942	28697	36297.9
Chr1:28200251-28206538	6288	4000	5059.48
Chr1:28209635-28215248	5614	2069	2617.01
Chr1:32309674-32313890	4217	16108	20374.5
Chr1:38341440-38345532	4093	26278	33238.2
Chr1:40436957-40441074	4118	4051	5123.98
Chr1:40539348-40547010	7663	22214	28097.8
Chr1:42569168-42574745	5578	7798	9863.45
Chr2:1553148-1553230	83	1679	2123.72
Chr2:5901667-5906692	5026	2648	3349.37
Chr2:6772790-6780961	8172	20509	25941.2
Chr2:6781336-6783447	2112	2169	2743.5
Chr2:8587463-8593392	5930	3229	4084.26
Chr2:9855347-9859240	3894	6607	8356.99
Chr2:9860994-9864595	3602	4521	5718.47
Chr2:11488553-11490907	2355	6692	8464.5
Chr2:11491077-11494505	3429	7017	8875.59
Chr2:11494675-11501541	6867	8793	11122
Chr2:12214657-12217238	2582	1674	2117.39
Chr2:12222936-12226254	3319	3941	4984.85
Chr2:14455844-14459675	3832	2343	2963.59
Chr2:14924396-14926082	1687	2772	3506.22
Chr2:17351657-17362932	11276	53272	67382.1
Chr2:27250593-27255473	4881	2094	2648.64
Chr2:29055270-29056420	1151	2434	3078.69
Chr2:33157187-33161980	4794	8263	10451.6
Chr3:4508546-4513609	5064	2919	3692.15
Chr3:9280904-9283063	2160	2872	3632.7
Chr3:9283221-9285209	1989	1992	2519.62
Chr3:12910246-12911368	1123	2366	2992.68
Chr3:12967060-12976252	9193	36817	46568.7
Chr3:13250645-13256185	5541	8621	10904.4
Chr3:16865584-16870045	4462	5656	7154.1
Chr3:17536623-17539556	2934	3131	3960.3
Chr3:17905920-17908217	2298	2129	2692.91
Chr3:20976158-20978551	2394	2613	3305.1
Chr3:22406105-22410755	4651	2713	3431.59
Chr3:24569576-24573183	3608	2173	2748.56
Chr3:25178120-25180813	2694	2408	3045.8
Chr3:27070389-27071836	1448	2387	3019.24
Chr3:32610068-32614223	4156	3462	4378.98
Chr3:36126102-36131813	5712	7215	9126.03
Chr4:1745938-1747341	1404	2484	3141.93
Chr4:4588052-4594154	6103	37539	47481.9
Chr4:4600166-4607239	7074	18691	23641.7
Chr4:5474860-5477069	2210	1828	2312.18
Chr4:5491378-5496958	5581	5730	7247.7
Chr4:11672863-11674397	1535	4650	5881.64
Chr4:12622421-12627621	5201	7132	9021.05
Chr4:12628376-12630742	2367	5484	6936.54
Chr4:18422338-18426438	4101	9240	11687.4
Chr4:18427813-18433505	5693	17505	22141.5
Chr4:19448557-19452694	4138	7317	9255.05
Chr4:19715123-19715247	125	3173	4013.43
Chr4:19715478-19715592	115	3899	4931.72
Chr4:26769648-26774368	4721	32777	41458.6
Chr4:29781896-29785364	3469	6346	8026.86
Chr4:35050583-35053416	2834	2186	2765
Chr4:35113552-35118575	5024	14294	18080
Chr5:542947-547817	4871	11331	14332.2
Chr5:1510260-1513820	3561	4814	6089.08
Chr5:5540375-5543272	2898	6471	8184.97
Chr5:7102993-7105878	2886	3903	4936.78
Chr5:7111061-7114368	3308	2685	3396.17
Chr5:7114691-7118407	3717	3102	3923.62
Chr5:7191775-7197339	5565	3378	4272.73
Chr5:10975028-10977237	2210	3354	4242.37
Chr5:11242426-11246723	4298	3034	3837.61
Chr5:11485814-11487867	2054	1618	2046.56
Chr5:13579674-13583497	3824	4210	5325.1
Chr5:13585420-13587791	2372	3005	3800.93
Chr5:13705694-13708544	2851	2270	2871.25
Chr5:15193335-15196279	2945	4417	5586.93
Chr5:18201880-18205972	4093	2271	2872.52
Chr5:18227558-18229750	2193	8105	10251.8
Chr5:18229870-18231749	1880	9325	11794.9
Chr5:18231870-18233377	1508	3285	4155.09
Chr5:18244456-18252742	8287	25767	32591.9
Chr5:19267669-19272364	4696	6124	7746.06
Chr5:19273592-19280592	7001	14815	18739
Chr5:19706371-19710576	4206	3562	4505.46
Chr5:20468280-20470120	1841	2251	2847.22
Chr5:22115721-22116500	780	3430	4338.5
Chr5:23709442-23714420	4979	7268	9193.07
Chr5:24463732-24468729	4998	4414	5583.13

Chr5:25352224-25357093	4870	4118	5208.73
Chr5:26871607-26874206	2600	1777	2247.67
Chr5:28636425-28640359	3935	2137	2703.03
Chr5:28641249-28645794	4546	6325	8000.3
Chr6:518901-520279	1379	2689	3401.23
Chr6:2599635-2602223	2589	5853	7403.28
Chr6:2605685-2613039	7355	46291	58552.1
Chr6:3724856-3731384	6529	2581	3264.63
Chr6:3749428-3756160	6733	16190	20478.2
Chr6:4972341-4975523	3183	2623	3317.75
Chr6:6214384-6218259	3876	10848	13721.3
Chr6:6420346-6424513	4168	27213	34420.9
Chr6:6424616-6435985	11370	27408	34667.5
Chr6:7535537-7538954	3418	2156	2727.06
Chr6:11301676-11304945	3270	1986	2512.03
Chr6:12764862-12767057	2196	4404	5570.48
Chr6:13330467-13330603	137	3099	3919.83
Chr6:13427980-13432318	4339	4528	5727.33
Chr6:19501897-19503998	2102	2681	3391.11
Chr6:19504583-19512740	8158	7337	9280.34
Chr6:19597247-19601144	3898	3225	4079.2
Chr6:19601278-19608176	6899	3958	5006.35
Chr6:20991321-20996172	4852	12810	16203
Chr6:21165719-21165845	127	1877	2374.16
Chr6:21423301-21426899	3599	1859	2351.39
Chr6:21837795-21841265	3471	3240	4098.18
Chr6:25786231-25794475	8245	31730	40134.3
Chr6:27799534-27809084	9551	2813	3558.08
Chr6:29376922-29380068	3147	2704	3420.21
Chr6:30926664-30929077	2414	5413	6846.74
Chr6:30934342-30939003	4662	7370	9322.08
Chr7:1043841-1045960	2120	5362	6782.23
Chr7:1299213-1300476	1264	2048	2590.45
Chr7:1300579-1302134	1556	3749	4741.99
Chr7:4348719-4353078	4360	3194	4039.99
Chr7:4373503-4376249	2747	1909	2414.63
Chr7:4702318-4703457	1140	2146	2714.41
Chr7:4703562-4711302	7741	40806	51614.2
Chr7:4988786-4999548	10763	69592	88024.8
Chr7:6774396-6785581	11186	12889	16302.9
Chr7:7212409-7219225	6817	27747	35096.3
Chr7:8048308-8058185	9878	25415	32146.6
Chr7:10096589-10098596	2008	1779	2250.2
Chr7:11006183-11014929	8747	18885	23887.1
Chr7:18661540-18667035	5496	2571	3251.98
Chr7:21685950-21694147	8198	35584	45009.1
Chr7:21709023-21711343	2321	2003	2533.53
Chr7:21714111-21720595	6485	64007	80960.5
Chr7:21834781-21840621	5841	9459	11964.4
Chr7:22527006-22529808	2803	3831	4845.71
Chr7:28193302-28200487	7186	22522	28487.4
Chr8:818532-823346	4815	5344	6759.46
Chr8:1614766-1618337	3572	4663	5898.08
Chr8:1627995-1632953	4959	13422	16977.1
Chr8:4307989-4312922	4934	8212	10387.1
Chr8:4365993-4370070	4078	3332	4214.54
Chr8:4372430-4379913	7484	13898	17579.1
Chr8:4380025-4383115	3091	5332	6744.28
Chr8:5165785-5170277	4493	3256	4118.41
Chr8:5173938-5177687	3750	6145	7772.62
Chr8:7662655-7666363	3709	7721	9766.05
Chr8:7667556-7673470	5915	27582	34887.6
Chr8:7695227-7698695	3469	1979	2503.18
Chr8:7698802-7701224	2423	4334	5481.94
Chr8:7764346-7769796	5451	1909	2414.63
Chr8:8702817-8702918	102	15459	19553.6
Chr8:9145444-9150968	5525	5546	7014.96
Chr8:9193386-9194236	851	1732	2190.75
Chr8:10492153-10499819	7667	2312	2924.38
Chr8:10867556-10873271	5716	24643	31170.2
Chr8:10883033-10889820	6788	6266	7925.67
Chr8:10890038-10895268	5231	18086	22876.4
Chr8:14966160-14970456	4297	4242	5365.57
Chr8:15452407-15462092	9686	6503	8225.44
Chr8:17184322-17189325	5004	7222	9134.88
Chr8:17666814-17670168	3355	3993	5050.62
Chr8:17700636-17711324	10689	23988	30341.7
Chr8:17721388-17725886	4499	5666	7166.75
Chr8:20989285-20992609	3325	6568	8307.66
Chr8:21004088-21007118	3031	2732	3455.62
Chr8:21007238-21008907	1670	4374	5532.54
Chr8:21424114-21432407	8294	23747	30036.8
Chr8:21718482-21722308	3827	2504	3167.23
Chr8:22036937-22047604	10668	10979	13887
Chr8:22081006-22088810	7805	24586	31098.1
Chr8:22467052-22472178	5127	26020	32911.9
Chr8:22503692-22508451	4760	27280	34505.6
Chr9:1074972-1077703	2732	2551	3226.68

Chr9:1183551-1187227	3677	1834	2319.77
Chr9:1187645-1193903	6259	2976	3764.25
Chr9:1196074-1200878	4805	16261	20568
Chr9:5765838-5768762	2925	3134	3964.1
Chr9:5769297-5781150	11854	39503	49966.1
Chr9:6544463-6554851	10389	21176	26784.9
Chr9:14440984-14446995	6012	8904	11262.4
Chr9:15991312-15994476	3165	7222	9134.88
Chr9:16533266-16542020	8755	58894	74493.2
Chr9:16723088-16726859	3772	2644	3344.31
Chr9:17595818-17598076	2259	12418	15707.1
Chr9:17598267-17600109	1843	7323	9262.64
Chr9:17600222-17603773	3552	7671	9702.81
Chr9:18963885-18967011	3127	4445	5622.34
Chr9:19227589-19232609	5021	9684	12249
Chr9:19305108-19309221	4114	3456	4371.39
Chr9:19533321-19539840	6520	25659	32455.3
Chr9:20615578-20619926	4349	14136	17880.2
Chr9:20620444-20622430	1987	3708	4690.13
Chr9:21044080-21044115	36	2052	2595.51
Chr9:21045372-21045594	223	2078	2628.4
Chr9:21246679-21252218	5540	10241	12953.5
Chr9:21325122-21328310	3189	1962	2481.67
Chr9:22069981-22075731	5751	4234	5355.46
Chr10:2401007-2401784	778	1812	2291.94
Chr10:2404814-2405822	1009	1823	2305.86
Chr10:2406276-2413314	7039	36033	45577
Chr10:2414426-2414672	247	2349	2971.18
Chr10:2414861-2416625	1765	3616	4573.77
Chr10:2417173-2418145	973	2900	3668.12
Chr10:2727526-2733192	5667	15429	19515.7
Chr10:2901998-2905947	3950	2514	3179.88
Chr10:5925634-5933475	7842	3649	4615.51
Chr10:7297363-7304913	7551	11898	15049.4
Chr10:12013970-12014975	1006	1830	2314.71
Chr10:12015089-12016218	1130	1683	2128.77
Chr10:13749172-13754341	5170	12363	15637.6
Chr10:13754623-13756981	2359	1697	2146.48
Chr10:15987275-15991248	3974	1865	2358.98
Chr11:2911331-2921755	10425	13381	16925.2
Chr11:2923313-2924804	1492	1649	2085.77
Chr11:3993089-4002847	9759	104083	131651
Chr11:4894960-4906153	11194	10763	13613.8
Chr11:7731165-7734531	3367	2720	3440.44
Chr11:7738737-7741790	3054	1834	2319.77
Chr11:9449531-9451996	2466	2484	3141.93
Chr11:11687676-11688950	1275	5122	6478.66
Chr11:11689057-11689811	755	2156	2727.06
Chr11:15737757-15739855	2099	2607	3297.51
Chr11:16130605-16133551	2947	1664	2104.74
Chr11:16330799-16336649	5851	4332	5479.41
Chr11:17860076-17865726	5651	7842	9919.1
Chr11:18312138-18317185	5048	8200	10371.9
Chr11:19102806-19106758	3953	4257	5384.55
Chr11:24387678-24394624	6947	3471	4390.36
Chr11:25023874-25025610	1737	1826	2309.65
Chr11:28915041-28917571	2531	6399	8093.9
Chr12:2869634-2882792	13159	36676	46390.3
Chr12:2893885-2897910	4026	3040	3845.2
Chr12:3094190-3099633	5444	6601	8349.4
Chr12:4728657-4736294	7638	4821	6097.93
Chr12:4912415-4916843	4429	2027	2563.89
Chr12:5575307-5579337	4031	3225	4079.2
Chr12:6399805-6403120	3316	1998	2527.21
Chr12:7180675-7184679	4005	2358	2982.56
Chr12:8656081-8658356	2276	12995	16437
Chr12:10112359-10115339	2981	4401	5566.69
Chr12:10115608-10124195	8588	30653	38772
Chr12:10177918-10185087	7170	22550	28522.8
Chr12:10337333-10340366	3034	2672	3379.73
Chr12:13480000-13482762	2763	3487	4410.6
Chr12:17500497-17503825	3329	2042	2582.86
Chr12:19319050-19323890	4841	7768	9825.5
Chr12:19327437-19329763	2327	3450	4363.8
Chr12:19374466-19377539	3074	24336	30781.9
Chr12:19377669-19380258	2590	22818	28861.8
Chr12:19389016-19392455	3440	6647	8407.58
Chr12:19401051-19414790	13740	81001	102456
Chr12:20875170-20883468	8299	5771	7299.56
Chr12:22699696-22701320	1625	1764	2231.23
Chr12:24728433-24734446	6014	4977	6295.25
Chr12:24879830-24881083	1254	3226	4080.47

Region	Length	TP309 seed coat_reads	TP309 seed coat_RPTM
Chr1:2521761-2525534	3774	10397	6751.76
Chr1:2555533-2560009	4477	41450	26917.4
Chr1:9039052-9045759	6708	41082	26678.4
Chr1:9435827-9439656	3830	56822	36899.9
Chr1:10921606-10924098	2493	12447	8083.02
Chr1:10924269-10926494	2226	38231	24827
Chr1:11187808-11189665	1858	5438	3531.41
Chr1:11189850-11192208	2359	11773	7645.33
Chr1:11194285-11201191	6907	34123	22159.3
Chr1:11360799-11365089	4291	73647	47826
Chr1:11470333-11475439	5107	90314	58649.5
Chr1:12139277-12145610	6334	22602	14677.6
Chr1:14333171-14340725	7555	106793	69350.8
Chr1:14959356-14964153	4798	24458	15882.9
Chr1:19259410-19274571	15162	12069	7837.55
Chr1:20809709-20814697	4989	33411	21696.9
Chr1:21008538-21023337	14800	18602	12080
Chr1:25251585-25254751	3167	6110	3967.8
Chr1:25311726-25313915	2190	16027	10407.9
Chr1:26580525-26582395	1871	4553	2956.7
Chr1:28199276-28206541	7266	123176	79989.9
Chr1:28209600-28216678	7079	66571	43230.9
Chr1:29052691-29057130	4440	29406	19096.1
Chr1:30807458-30812193	4736	12190	7916.12
Chr1:39322719-39324563	1845	4400	2857.34
Chr2:1292602-1294479	1878	3502	2274.18
Chr2:3700082-3702958	2877	4951	3215.15
Chr2:5899763-5907331	7569	86576	56222
Chr2:6758826-6764429	5604	35993	23373.7
Chr2:6795025-6797018	1994	25003	16236.8
Chr2:6797255-6798739	1485	14221	9235.05
Chr2:7603850-7612031	8182	49094	31881.4
Chr2:8343262-8350085	6824	53082	34471.2
Chr2:13580497-13582726	2230	8042	5222.43
Chr2:13582835-13584440	1606	21480	13949
Chr2:13584553-13586359	1807	18980	12325.5
Chr2:16555790-16558432	2643	3286	2133.91
Chr2:17352184-17362368	10185	3660	2376.79
Chr2:19469135-19471202	2068	33551	21787.9
Chr2:29633229-29636004	2776	7944	5158.79
Chr2:29777047-29782815	5769	19128	12421.6
Chr2:33666331-33670765	4435	4813	3125.54
Chr2:33847610-33850584	2975	6909	4486.67
Chr3:10131213-10135276	4064	4891	3176.19
Chr3:12709269-12710829	1561	5367	3485.3
Chr3:12711053-12713326	2274	5180	3363.87
Chr3:12967457-12976059	8603	11405	7406.35
Chr3:15609566-15614287	4722	7576	4919.82
Chr3:16165151-16169246	4096	4726	3069.04
Chr3:16790322-16793969	3648	6329	4110.02
Chr3:17534150-17543648	9499	20408	13252.9
Chr3:19353251-19356624	3374	3226	2094.95
Chr3:22402320-22411470	9151	84547	54904.4
Chr3:24408927-24413594	4668	3377	2193.01
Chr3:24566342-24574131	7790	87274	56675.3
Chr3:24600899-24607135	6237	29303	19029.2
Chr3:26123027-26126245	3219	28354	18412.9
Chr3:26143503-26145459	1957	3956	2569.01
Chr3:27617305-27621763	4459	33321	21638.5
Chr3:29748690-29757209	8520	17679	11480.7
Chr4:11651699-11659200	7502	10093	6554.34
Chr4:19681040-19685207	4168	25269	16409.6
Chr4:23337249-23341399	4151	4253	2761.88
Chr4:35049574-35053501	3928	77874	50571
Chr5:661501-664202	2702	4316	2802.79
Chr5:1132446-1140507	8062	57162	37120.7
Chr5:1679719-1685842	6124	24000	15585.5
Chr5:4824691-4831616	6926	39053	25360.8
Chr5:10916681-10920212	3532	36938	23987.4
Chr5:10920336-10923044	2709	15297	9933.79
Chr5:11242416-11246815	4400	96684	62786.1
Chr5:16055424-16058037	2614	21599	14026.3
Chr5:19884414-19887244	2831	5951	3864.55
Chr5:25347432-25352003	4572	9833	6385.5
Chr5:25352165-25357702	5538	137780	89473.6
Chr5:26871666-26874206	2541	26494	17205.1
Chr6:6074353-6077281	2929	3969	2577.45
Chr6:6078050-6083497	5448	44557	28935.1
Chr6:7380634-7384393	3760	5793	3761.95
Chr6:7534413-7539307	4895	59362	38549.4
Chr6:11299537-11305651	6115	60176	39078
Chr6:12034039-12041755	7717	6408	4161.32
Chr6:13424894-13438639	13746	171928	111649
Chr6:17320069-17323450	3382	10015	6503.69
Chr6:17672312-17677290	4979	4691	3046.31
Chr6:19708606-19712027	3422	12696	8244.72

Chr6:21224116-21229716	5601	7264	4717.21
Chr6:23399231-23400693	1463	3208	2083.26
Chr6:27797786-27809473	11688	86885	56422.7
Chr6:28515401-28518631	3231	12851	8345.37
Chr6:29376926-29380707	3782	72201	46887
Chr7:994259-1002410	8152	16333	10606.6
Chr7:3900402-3903667	3266	3445	2237.17
Chr7:4345533-4353177	7645	91811	59621.6
Chr7:4372338-4377228	4891	67854	44064
Chr7:5719312-5723719	4408	3708	2407.96
Chr7:8291249-8295114	3866	11836	7686.24
Chr7:8295238-8301025	5788	52317	33974.4
Chr7:12422204-12424303	2100	3166	2055.98
Chr7:15676996-15677884	889	6300	4091.19
Chr7:15677988-15679463	1476	5670	3682.07
Chr7:15712019-15717810	5792	24475	15893.9
Chr7:15986454-15991210	4757	45006	29226.7
Chr7:19997588-20006845	9258	24983	16223.8
Chr7:22459896-22462004	2109	4013	2606.02
Chr7:23519922-23522314	2393	14805	9614.29
Chr7:27168168-27170310	2143	8674	5632.85
Chr8:5774450-5782021	7572	25294	16425.8
Chr8:7662591-7666358	3768	4906	3185.93
Chr8:7667566-7673911	6346	23564	15302.3
Chr8:7762777-7770869	8093	76638	49768.3
Chr8:7989698-7992785	3088	3899	2531.99
Chr8:8446492-8449809	3318	3279	2129.37
Chr8:9442326-9449307	6982	26946	17498.6
Chr8:10491601-10502107	10507	76879	49924.8
Chr8:15382219-15386505	4287	4929	3200.87
Chr8:15452051-15462294	10244	193230	125483
Chr8:15463930-15466939	3010	19090	12396.9
Chr8:16972475-16979505	7031	31524	20471.5
Chr8:20978460-20986722	8263	36753	23867.2
Chr8:21691357-21695683	4327	25672	16671.3
Chr8:27144219-27147533	3315	20172	13099.6
Chr9:1285735-1297850	12116	16055	10426
Chr9:3227842-3229695	1854	4320	2805.39
Chr9:3229897-3231549	1653	4436	2880.72
Chr9:3511863-3520039	8177	3616	2348.21
Chr9:9556907-9558463	1557	5846	3796.36
Chr9:12418728-12427379	8652	12860	8351.22
Chr9:12621912-12624864	2953	9163	5950.41
Chr9:15228033-15232300	4268	13083	8496.03
Chr9:16723080-16727704	4625	86173	55960.3
Chr10:402209-405187	2979	5792	3761.3
Chr10:706457-709017	2561	15727	10213
Chr10:3440841-3446759	5919	25840	16780.4
Chr10:5923285-5934240	10956	111709	72543.3
Chr10:15985582-15993013	7432	69318	45014.8
Chr10:16003045-16005181	2137	19802	12859.3
Chr10:16005548-16007059	1512	29905	19420.2
Chr10:20760687-20764658	3972	6258	4063.91
Chr10:20776680-20779739	3060	21513	13970.4
Chr11:2540753-2545719	4967	19104	12406
Chr11:3230045-3233566	3522	39640	25742
Chr11:3993122-4001684	8563	3604	2340.42
Chr11:7333501-7335924	2424	10522	6832.93
Chr11:7720427-7725287	4861	4315	2802.14
Chr11:7725464-7730825	5362	11047	7173.87
Chr11:7731057-7735579	4523	98079	63692
Chr11:7735681-7745404	9724	109025	70800.3
Chr11:8909715-8916176	6462	13447	8732.41
Chr11:16329832-16336817	6986	146548	95167.5
Chr11:17164428-17170277	5850	26844	17432.4
Chr11:19254414-19256359	1946	4080	2649.53
Chr11:20706543-20709580	3038	27364	17770
Chr11:21410967-21413825	2859	7780	5052.29
Chr11:22338328-22343006	4679	8597	5582.85
Chr11:24386677-24394635	7959	125353	81403.6
Chr11:27016637-27019288	2652	16672	10826.7
Chr12:4726888-4738498	11611	160135	103991
Chr12:4898697-4904135	5439	52407	34032.8
Chr12:4909460-4920376	10917	67759	44002.4
Chr12:5022326-5028798	6473	20205	13121
Chr12:9061812-9066482	4671	12399	8051.85
Chr12:10926270-10929294	3025	4663	3028.13
Chr12:17499957-17504299	4343	75202	48835.8
Chr12:17505052-17508160	3109	3334	2165.08
Chr12:17984443-17989007	4565	34540	22430.1
Chr12:18391543-18392884	1342	6544	4249.64
Chr12:18392996-18394312	1317	7551	4903.58
Chr12:18394419-18397218	2800	8604	5587.39
Chr12:18860401-18868300	7900	51691	33567.9
Chr12:24725046-24735886	10841	167897	109031

**Table S2 Basic information of high-throughput sequencing.**

**mRNA-seq basic information**

sample	raw reads	raw bases	clean reads	clean bases	mapped reads	mapped ratio	depth (X)	SRA	reference
TP309 seedling-R1	59,359,372	8,903,905,800	56,306,542	8,350,925,760	53,403,841	94.84%	22.39		
TP309 seedling-R2	60,424,258	9,063,638,700	57,222,120	8,485,162,962	54,397,444	95.06%	22.75		
TP309 seedling-R3	71,100,710	10,665,106,500	68,268,376	10,159,956,972	64,941,139	95.13%	27.24		
TP309 inflorescence-R1	67,537,852	10,130,677,800	65,650,002	9,807,815,124	62,067,623	94.54%	26.29		
TP309 inflorescence-R2	70,342,390	10,551,358,500	68,459,800	10,228,000,942	64,711,656	94.53%	27.42		
Nip inflorescence-R1	69,906,792	10,486,018,800	63,796,400	9,332,604,980	60,771,007	95.26%	25.02	SRX3837322	Wang et al., 2022
Nip inflorescence-R2	67,044,098	10,056,614,700	60,326,862	8,813,623,755	57,151,392	94.74%	23.63	SRX3837323	Wang et al., 2022
<i>osrd2-3</i> -inflorescence-R1	69,885,574	10,482,836,100	65,013,666	9,648,288,625	60,313,287	92.77%	25.87	SRX3837325	Wang et al., 2022
<i>osrd2-3</i> -inflorescence-R2	67,544,644	10,131,696,600	59,756,218	8,724,920,377	55,205,212	92.38%	23.39	SRX3837326	Wang et al., 2022
Nip seedling-R1	274,272,624	41,140,893,600	251,471,788	37,210,950,150	237,216,298	94.33%	99.76	SRX5724238	Wang et al., 2022
Nip seedling-R2	125,356,904	18,803,535,600	115,313,972	17,036,610,626	110,542,360	95.86%	45.67	SRX5724239	Wang et al., 2022
Nip stamen-R1	79,193,822	11,879,073,300	76,682,404	11,445,718,761	73,313,209	95.61%	30.69	SRX8512913	Wang et al., 2022
Nip stamen-R2	84,400,444	12,660,066,600	81,429,974	12,151,494,381	77,489,483	95.16%	32.58	SRX8512914	Wang et al., 2022
Nip stamen-R3	88,647,982	13,297,197,300	85,699,916	12,790,464,730	81,727,019	95.36%	34.29	SRX8512915	Wang et al., 2022
<i>osrd2-3</i> stamen-R1	78,100,906	11,715,135,900	75,756,582	11,313,273,498	72,599,932	95.83%	30.33	SRX8512916	Wang et al., 2022
<i>osrd2-3</i> stamen-R2	94,160,166	14,124,024,900	91,096,730	13,600,442,830	86,939,598	95.44%	36.46	SRX8512917	Wang et al., 2022
<i>osrd2-3</i> stamen-R3	84,001,516	12,600,227,400	81,080,748	12,101,849,943	77,181,083	95.19%	32.44	SRX8512918	Wang et al., 2022
Nip pistil-R1	67,864,086	10,179,612,900	65,739,068	9,813,460,640	63,080,665	95.96%	26.31	SRX8512922	Wang et al., 2022
Nip pistil-R2	85,546,240	12,831,936,000	82,628,330	12,333,614,112	78,932,663	95.53%	33.07	SRX8512923	Wang et al., 2022
Nip pistil-R3	82,711,026	12,406,653,900	79,988,436	11,941,312,616	76,239,247	95.31%	32.01	SRX8512924	Wang et al., 2022
<i>osrd2-3</i> pistil-R1	60,308,434	9,046,265,100	58,377,330	8,716,684,070	56,081,979	96.07%	23.37	SRX8512925	Wang et al., 2022
<i>osrd2-3</i> pistil-R2	76,990,078	11,548,511,700	74,266,718	11,087,236,958	71,126,258	95.77%	29.72	SRX8512926	Wang et al., 2022
<i>osrd2-3</i> pistil-R3	71,775,126	10,766,268,900	69,145,974	10,324,886,034	65,985,379	95.43%	27.68	SRX8512927	Wang et al., 2022

**sRNA-seq basic information**

sample	raw reads	clean reads	mapped reads	mapped ratio	SRA	reference
Nip bract	19,988,796	19,969,562	15,691,409	78.58%		
Nip branch	21,506,629	21,496,916	18,451,096	85.83%		
TP309 seedling-R1	28,321,200	28,311,900	22,542,144	79.62%	SRX11502899	Wang et al., 2022
TP309 seedling-R2	27,980,509	27,965,218	21,968,483	78.56%	SRX11502900	Wang et al., 2022
TP309 inflorescence-R1	20,740,453	20,739,517	16,952,014	81.74%		
TP309 inflorescence-R2	28,674,331	28,674,085	19,137,666	66.74%		
TP309 seed coat	24,149,326	24,149,325	20,975,097	86.86%		
<i>fem 1-1</i> seed coat	21,981,245	21,981,243	18,383,150	83.63%		
<i>pol iv</i> seed coat	21,382,456	21,382,453	16,669,784	77.96%		
TP309 endosperm	22,388,240	22,388,240	18,459,636	82.45%		
<i>fem 1-1</i> endosperm	21,483,482	21,483,481	18,128,932	84.39%		
<i>pol iv</i> endosperm	22,421,276	22,421,275	17,743,305	79.14%		
Nip inflorescence-R1	25,030,595	25,030,251	16,847,503	67.31%	SRX3837382	Wang et al., 2022
Nip inflorescence-R2	27,227,675	27,227,004	23,102,469	84.85%	SRX5724233	Wang et al., 2022
<i>osrd2-3</i> inflorescence	23,490,085	23,489,603	14,365,213	61.16%	SRX3837383	Wang et al., 2022
<i>osrd2-6</i> inflorescence	27,978,716	27,977,683	19,715,066	70.47%	SRX5724234	Wang et al., 2022
seedling-R1	24,875,329	24,875,202	21,678,829	87.15%	SRX5724235	Wang et al., 2022
seedling-R2	25,131,542	25,131,495	21,913,601	87.20%	SRX5724236	Wang et al., 2022
<i>osrd2-6</i> seedling	24,737,577	24,737,425	19,747,442	79.83%	SRX5724237	Wang et al., 2022
Nip stamen	21,045,563	21,038,047	16,305,153	77.50%	SRX8512935	Wang et al., 2022
<i>osrd2-3</i> stamen	24,307,925	24,307,719	20,474,882	84.23%	SRX8512936	Wang et al., 2022
<i>osrd2-6</i> stamen	25,967,101	25,966,752	21,961,584	84.58%	SRX8512937	Wang et al., 2022
Nip pistil	19,986,635	19,985,410	17,356,918	86.85%	SRX8512938	Wang et al., 2022
<i>osrd2-3</i> pistil	26,506,662	26,504,142	21,282,404	80.30%	SRX8512939	Wang et al., 2022
<i>osrd2-6</i> pistil	26,048,327	26,048,255	22,596,967	86.75%	SRX8512940	Wang et al., 2022
egg cell-R1	34,338,087	17,949,255	13,431,907	74.83%	SRX5757720	Li et al., 2020
egg cell-R2	36,755,974	21,298,630	15,828,862	89.91%	SRX5757723	Li et al., 2020
ovary without the egg cell-R1	40,408,939	30,862,239	27,747,170	77.50%	SRX5757668	Li et al., 2020
ovary without the egg cell-R2	42,307,958	32,635,862	29,331,685	79.10%	SRX5757691	Li et al., 2020
sperm-R1	52,745,236	32,007,855	24,806,059	74.32%	SRX5757716	Li et al., 2020
sperm-R2	60,979,419	37,833,278	29,345,251	89.88%	SRX5757717	Li et al., 2020
vegetative cell-R1	118,005,472	41,020,785	32,447,006	77.56%	SRX5757653	Li et al., 2020
vegetative cell-R2	86,675,388	34,093,634	26,449,728	77.58%	SRX5757654	Li et al., 2020
embryo	26,233,129	24,712,273	20,608,555	83.39%	SRX248516	Rodrigues et al. 2013
endosperm	22,605,850	19,253,861	16,030,242	83.26%	SRX248515	Rodrigues et al. 2013

**Basic information of bisulfite sequencing data.**

sample	raw reads	raw bases	clean reads	clean bases	mapped reads	mapped ratio	coverage	depth (X)	conversion rate	SRA	reference
Nip inflorescence-R1	157,087,444	15,708,744,400	148,033,072	14,803,307,200	102,959,700	69.6%	93.54%	22.79	99.55%	SRX3837328	Wang et al., 2022
Nip inflorescence-R2	168,633,068	25,294,960,200	161,320,954	24,198,143,100	106,198,762	65.8%	94.18%	28.10	99.58%	SRX5724228	Wang et al., 2022
<i>osrd2-3</i> inflorescence	159,396,562	15,939,656,200	151,230,624	15,123,062,400	103,639,178	68.5%	93.96%	23.10	99.62%	SRX3837329	Wang et al., 2022
<i>osrd2-6</i> inflorescence	140,415,006	21,062,250,900	134,758,396	20,213,759,400	83,582,372	62.0%	92.86%	21.93	99.44%	SRX5724229	Wang et al., 2022
Nip seedling-R1	227,476,972	34,121,545,800	218,857,910	32,828,686,500	168,637,380	77.1%	94.59%	35.33	99.53%	SRX5724230	Wang et al., 2022
Nip seedling-R2	178,621,232	26,793,184,800	171,791,384	25,768,707,600	132,069,884	76.9%	94.05%	29.42	99.51%	SRX5724231	Wang et al., 2022
<i>osrd2-6</i> seedling	243,416,222	36,512,433,300	234,162,858	35,124,428,700	182,309,254	77.9%	94.70%	39.09	99.55%	SRX5724232	Wang et al., 2022
Nip stamen	135,381,864	20,307,279,600	135,381,806	20,307,270,900	109,532,276	80.9%	94.02%	25.52	99.46%	SRX8512907	Wang et al., 2022
<i>osrd2-3</i> stamen	134,734,552	20,210,182,800	134,734,156	20,210,123,400	99,740,148	74.0%	94.24%	26.94	99.54%	SRX8512908	Wang et al., 2022
<i>osrd2-6</i> stamen	135,399,670	20,309,950,500	135,399,612	20,309,941,800	106,647,162	78.8%	93.83%	25.09	99.49%	SRX8512909	Wang et al., 2022
Nip pistil	134,834,618	20,225,192,700	134,834,560	20,225,184,000	106,989,728	79.3%	93.79%	24.71	99.42%	SRX8512910	Wang et al., 2022
<i>osrd2-3</i> pistil	135,111,284	20,266,692,600	135,111,240	20,266,686,000	107,675,592	79.7%	93.74%	25.36	99.45%	SRX8512911	Wang et al., 2022
<i>osrd2-6</i> pistil	135,271,462	20,290,719,300	135,271,390	20,290,708,500	104,106,846	77.0%	93.69%	23.59	99.46%	SRX8512912	Wang et al., 2022
endosperm	72,549,332	10,882,399,800	63,416,348	9,512,452,200	51,983,520	82.0%	82.46%	12.98	99.49%	SRX4396080	Liu et al., 2018

**Basic information of ChIP-seq data**

sample	raw reads	clean reads	mapped reads	mapped ratio	SRA	reference
young inflorescence H3K9me2	36,040,908	33,849,332	33,728,693	99.64%	SRX7426653	Zhao et al., 2020
young inflorescence H3K27me3	31,084,746	28,068,766	27,277,132	97.18%	SRX7426649	Zhao et al., 2020
young inflorescence H3K4me1	21,003,844	18,872,928	17,328,304	91.82%	SRX7426651	Zhao et al., 2020
young inflorescence H3K4me3	17,702,958	15,326,724	15,118,170	98.64%	SRX7426645	Zhao et al., 2020
young inflorescence H3K27ac	19,577,316	16,782,264	16,505,881	98.35%	SRX7426647	Zhao et al., 2020
young inflorescence Pol II	18,681,528	16,208,338	15,708,263	96.91%	SRX7426655	Zhao et al., 2020
endosperm H3K27me3	10,999,930	10,925,764	7,287,778	66.70%	SRX040548	Malone et al., 2011

**Table S3 Primers list.**

Name	Sequence(5'-3')	Experiment
BILL-F	GATGGAGAGAGTATTGTGTAC	sRNA northern blotting (Corresponding to Figure 4F)
BILL-R	GTCTCTCTAGCAGCGTAAAGC	sRNA northern blotting (Corresponding to Figure 4F)
methyl1-F	CATTTTGCTTCCTGCATTCCTC	Chop-PCR (Corresponding to Figure 3D the first locus)
methyl1-R	CTGGCGTGCAACCGCACAAACATG	Chop-PCR (Corresponding to Figure 3D the first locus)
methyl2-F	GATGGAGAGAGTATTGTGTAC	Chop-PCR (Corresponding to Figure 3D the second locus)
methyl2-R	GTCTCTCTAGCAGCGTAAAGC	Chop-PCR (Corresponding to Figure 3D the second locus)