

tied to any linkage group. Since it seems to eliminate all pollen carrying the ga factor it eliminates all other genes on the same chromosome.

Since egg transmission is normal for semisterile plants carrying the inhibitor or the ga factor or both, selfed plants heterozygous for ga, a second linked character and the inhibitor show directly 1/2 the recombination between them by the departure of the second character in seed or progeny classes from 50%, if the second character is not on the ga bearing chromosome, or by the departure from 0% if the second character is on the ga chromosome. When the recombination value is too low to show in some small samples these were not included in determining the value and consequently the determinations in this group given below are slightly too high. Back cross seeds or progenies, obtained when pollen from semisterile plants was used on testers carrying the inhibitor, gave a direct measure of the recombination value between ga and a second linked character by the departure of the second character from 100% or 0%.

<u>Character</u>	<u>Recombination value</u>	
	Back Cross %	Self %
<u>sh</u> - <u>ga</u>	---	27.1
<u>wx</u> - <u>ga</u>	7.6	9.0
<u>4</u> - <u>ga</u>	---	3.0
<u>ga</u> - <u>bt</u>	---	4.3
<u>ga</u> - <u>nc</u>	---	7.2

A. E. Longley

## 2. List of translocation stocks.

List of translocation stocks obtained from the "Crossroads" material (Bikini able bomb and x-ray controls). The cytological positions given are the average measurements of camera lucida drawings of three or more pachytene figures.

<u>Symbol</u>	<u>Chromosomes</u>	<u>Chromosomal Designation</u>	
4301- 39	3-8	3L.92	8L.82
4301-111	2-3	2 near cent.	3 near cent.
4302- 31	1-7	1S.16	7L.08
4302-116	5-8	5L.06	8S.11
4303- 9	9-10	9L.26	10S.44

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Symbol	Chromosomes	Chromosomal Designation	
4303- 12	3-8	3 near cent.	8 near cent.
4303- 74	2-3	2L. 73	3L. 68
4304- 82	4-9	4S. 22	9L. 37
4305- 8	4-5	4S. 27	5L. 28
4306- 4	5-7	5S. 32	7L. 35
4307- 4	1-7	1S. 42	8L. 66
4307- 12	4-9	4S. 48	9L. 55
4308	1-4	1S. 65	4L. 58
4314	1-3	1L. 81	3L. 89
4331	1-5	1L. 03	5S. 02
4337	6-7	6L. 37	7L. 13
4340	3-8	3L. 88	8L. 72
4341	4-6	4S. 37	6S. 81
4347	6-10	6L. 65	10S. 81
4349	3-6	3S. 58	6L. 70
4352	5-9	5L. 48	9L. 61
4356	7-10	7L. 70	10 near cent.
4363	7-9	7 near cent.	9 near cent.
4369	2-3	2S. 19	3S. 26
4372	2-6	2S. 37	6S. 81
4373	4-9	4L. 29	9L. 39
4374	2-4	2L. 15	4L. 23
4382	3-10	3S. 38	10L. 29
4383	3-10	3S. 18	10L. 24
4384	5-10	5L. 13	10L. 79
4394	2-6	2S. 91	6L. 12
4398	1-9	1L. 51	9S. 19
4400	2-7	2L. 24	7L. 32
4405	1-7	1S. 43	7S. 46
4413	4-8	2S. 84	4S. 32
4414	2-8	2L. 12	8L. 14
4420	1-7	1L. 47	7L. 90
4422	7-10	7L. 79	10S. 43
4444	1-7	(also 7L 10L) 1S. 65	7S. 50
4447	4-6	4S. 28	6L. 14
4453	8-9	8L. 86	9S. 68
4456	1-6	1L. 71	6L. 30
4461	4-6	4S. 86	6L. 17
4464	1-2	1S. 53	2L. 38
4472	4-5	4S. 25	5S. 19
4483	4-7	4L. 34	7L. 57
4484	2-10	2S. 09	10L. 14
4505	6-9	6L. 13	9 near cent.

Symbol	Chromosomes	Chromosomal Designation	
4519	2-7	2L. 65	7L. 66
4536	7-8	7L. 38	8L. 47
4545	6-7	6L. 25	7S. 73
4573	6-7	6L. 22	7L. 27
4578	2-5	2L. 92	5S. 71
4593	8-9	8L. 69	9L. 65
4594	6-7	6L. 52	7S. 67
4597	1-5	1L. 52	5S. 43
4613	1-5	1S. 78	5L. 22
4626	3-8	3S. 30	8L. 31
4635	3-5	3S. 44	5S. 48
4636	5-8	5L. 23	8L. 79
4643	8-9	8S. 37	9L. 11
4662	3-4	3S. 24	4S. 16
4666	5-6	5L. 35	6L. 86
4669	5-6	5L. 13	6L. 40
4670	3-7	3S. 20	7L. 76
4676	1-8	1L. 04	8S. 06
4685	1-8	1S. 20	8L. 21
4692	1-4	1L. 46	4L. 15
4698	4-7	4L. 08	7L. 74
4711	2-8	2S. 86	8L. 64
4713	3-4	3L. 21	4S. 59
4717	2-6	2L. 77	6L. 27
4726	3-4	3S. 16	4L. 15
4727	3-9	3L. 54	9L. 42
4741	2-5	2S. 47	5L. 47
4742	1-7	1S. 95	7L. 03
4748	1-8	1L. 12	8L. 15
4759	1-3	1L. 37	3L. 20
4773	3-7	3S. 11	7L. 08
4775	8-9	8L. 42	9L. 68
4778	6-9	6S. 80	9L. 30
4790	5-9	5L. 34	9L. 45
4801	5-10	5L. 91	10L. 23
4817	5-9	5 near cent.	9 near cent.
4824	7-8	7L. 83	8L. 25
4832	1-5	1S. 20	5L. 12
4833	6-10	6L. 83	10S. 78
4837	1-7	1S. 73	7L. 55
4871	5-9	5L. 71	9S. 38
4872	3-8	3L. 18	8L. 15
4873	3-5	3S. 22	5S. 16
4874	3-8	3S. 24	8L. 32
4880	3-5	3S. 25	5S. 12
	3-5	3L. 18	5L. 18

Symbol	Chromosomes	Chromosomal Designation	
4885	1-10	1 near cent.	10 near cent.
4891	1-7	1L.12	7L.69
4898	3-5	3 near cent.	5 near cent.
4933	5-6	5S.23	6L.89
4934	5-6	5L.34	6L.89
4937	1-2	1L.10	2S.15
4963	3-9	3L.76	9L.55
4964	6-7	6S.76	7L.72
4986	1-6	1S.21	6S.78
4995	1-9	1L.19	9S.20
4997	1-9	1L.37	9S.28
5013	5-8	5S.67	8L.59
5028	6-8	6L.21	8L.31
5045	1-5	1S.94	5L.50
5072	1-6	1S.17	6L.45
5074	7-9	7S.48	9L.53
5074	3-4	3 near cent.	4 near cent.
5077	1-6	1S.20	6L.60
5098	2-5	2L.13	5S.20
5143	5-7	5S.51	7L.10
5144	2-7	2S.35	7L.08
5156	3-4	3S.47	4L.08
5157	2-4	2S.86	4L.06
5179	5-7	5L.58	7L.75
5181	6-7	6S.79	7L.86
5188	5-10	5L.37	10S.65
5201	3-6	3S.37	6S.82
5208	2-9	2L.76	9L.68
5225	1-6	1L.61	6L.72
5227	4-6	4S.46	6S.84
5242	1-3	1L.90	3L.65
5253	6-10	6S.80	10L.41
5255	1-2	1S.25	2S.31
5257	2-9	2L.28	9L.20
5267	1-3	1L.72	3L.73
5273	1-10	1L.17	10L.69
5279	2-7	2S.93	7L.25
5285	3-9	3L.51	9L.49
5287	8-10	8L.17	10S.33
5290	5-10	5L.78	10S.49
5300	8-9	8L.85	9S.43
5304	2-3	2S.62	3L.29
5339	1-7	1L.24	7L.14
5339	4-8	4S.22	8L.71
5355	5-10	5S.77	10L.45

Symbol	Chromosomes	Chromosomal Designation	
5358	5-10	5L.10	10L.76
5368	5-9	5L.87	9L.95
5368	3-6	3L.22	6L.20
5373	1-4	1L.17	4S.29
5376	1-2	1L.77	2L.08
5378	3-7	3L.13	7L.73
5381	7-9	7L.85	9L.78
5384	1-8	1L.10	8L.59
5386	6-8	6S.78	8S.83
5391	8-9	8L.07	9S.33
5412	4-8	4L.59	8L.95
5413	7-8	7L.09	8L.77
5419	2-6	2L.82	6S.79
5438	1-4	1L.93	4L.81
5453	1-2	1L.11	2S.58
5454	6-9	6 near cent.	9S.75
5454	2-8	2L.21	8S.39
5471	3-7	3L.64	7L.58
		2S.25	6L.15
5472	2-6	2L.25	6L.28
5476	1-3	1L.66	3L.87
5479	7-8	7L.70	8S.21
5484	2-8	2L.24	8S.58
5488	9-10	9L.57	10L.89
5495	1-6	1S.25	6S.80
5499	7-8	7L.05	8L.08
5512	1-5	1S.08	5L.70
5519	6-10	6S.75	10L.17
5521	3-5	3L.17	5L.48
5523	1-2	1L.27	2S.62
5525	1-5	1S.75	5L.53
5529	4-5	4S.37	5L.46
5537	1-5	1S.11	5S.15
	1-6	1S.31	6L.22
5539	1-2	1L.21	2L.61
5557	5-10	5L.92	10S.39
5558	3-8	3S.26	8S.74
5561	2-10	2L.35	10S.16
5566	1-4	1S.21	4L.26
5570	5-8	5S.47	8L.35
5574	4-9	4L.80	9L.87
5575	5-8	5S.21	8S.22
5585	8-10	8 near cent.	10 near cent.
5588	1-8	1S.10	8S.32
5597	1-3	1S.77	3L.48
5602	2-5	2L.73	5L.77

<u>Symbol</u>	<u>Chromosomes</u>	<u>Chromosomal Designation</u>	
5605	6-8	6L. 36	8L. 22
5614	5-9	5L. 09	9L. 06
5619	1-8	1L. 07	8L. 16
5622	1-9	1L. 10	9L. 12
5622	5-6	5S. 94	6L. 42
5629	1-4	1L. 10	4L. 10
5634	1-8	1L. 08	8S. 28
5643	3-9	3S. 55	9L. 64
5645	2-5	2L. 60	5S. 85
5648	2-6	2L. 25	6L. 19
5651	2-10	2S. 71	10L. 62
5653	5-10	5S. 76	10L. 71
5657	4-9	4L. 33	9S. 25
5679	5-10	5S. 16	10L. 15
5680	1-4	1S. 87	4L. 45
5685	5-6	5L. 27	6L. 20
5688	5-10	5L. 78	10L. 53
5693	1-7	1L. 92	7L. 18
5711	2-9	2S. 24	9L. 23
5724	3-7	3 near cent.	7 near cent.
5752	1-8	1L. 36	8L. 24
5756	1-4	1L. 89	4L. 81
5765	5-6	5S. 19	6L. 32
5775	3-9	3L. 09	9S. 24
5777	5-8	5 near cent.	8 near cent.
5780	6-10	6L. 93	10L. 13
5783	2-7	2L. 66	7L. 10
5788	4-9	4L. 72	9L. 82
5800	2-3	2S. 73	3S. 81
5821	1-8	1L. 65	8L. 31
5828	7-8	7S. 31	8L. 10
5831	2-10	2 near cent.	10 near cent.
5866	5-8	5L. 32	8L. 77
5871	3-7	3S. 29	7L. 13
5874	3-5	3L. 16	5L. 21
5876	2-5	2L. 47	5L. 46
5883	1-3	1S. 88	3S. 60
5884	4-9	4L. 40	9L. 49
5891	3-4	3 near cent.	4 near cent.
5892	3-10	3S. 17	10L. 25
5896	1-2	1S. 22	2S. 30
5906	5-6	5S. 15	6L. 13
5910	1-8	1L. 93	8L. 67
5918	4-9	4S. 24	9L. 18

Symbol	Chromosomes	Chromosomal Designation	
5920	3-4	3S. 28	4L. 73
5944	8-10	8L. 75	10L. 40
5946	1-2	1 near cent.	2 near cent.
5951	2-4	2L. 18	4S. 26
5955	3-7	3L. 10	7L. 59
5964	6-9	6L. 47	9L. 83
5982	1-3	1S. 77	3L. 66
6019	6-9	6L. 27	9L. 26
6057	5-9	5S. 15	9S. 52
6061	5-10	5S. 60	10L. 57
6062	5-6	5L. 20	6L. 78
6063	4-8	4S. 02	8L. 05
6128	8-10	8L. 43	10S. 47
6178	1-5	1L. 04	5L. 05
6187	6-8	6L. 19	8L. 51
6189	1-6	1S. 23	6L. 17
6197	1-5	1S. 02	5L. 02
6200	5-9	5L. 81	9L. 71
6222	4-9	4L. 03	9S. 68
6225	7-9	7 near cent.	9 near cent.
6261	3-8	3L. 49	8L. 40
6266	2-4	2L. 40	4L. 27
6270	2-3	2S. 46	3L. 60
6270	6-9	6L. 19	9L. 28
6284	2-3	2L. 81	3L. 96
6289	5-8	5L. 06	8L. 54
6293	5-7	5L. 26	7L. 63
6328	1-9	1L. 79	9L. 40
6346	3-5	3L. 94	5L. 83
6349	3-6	3L. 10	6L. 15
6363	4-8	4L. 76	8L. 30
6372	2-7	2S. 21	7L. 11
6373	3-8	3S. 53	8L. 68
6401	1-5	1L. 14	5S. 20
6402	5-8	5S. 07	8L. 07
6406	5-8	5 near cent.	8 near cent.
6422	1-4	1L. 16	4S. 11
6427	7-8	7L. 96	8L. 28
6439	3-8	3S. 30	8L. 15
6462	3-5	3S. 31	5L. 47
6466	3-7	3L. 36	7L. 14
6473	3-5	3S. 32	5L. 26
6482	5-6	5S. 22	6S. 77
6482	7-9	7L. 01	9S. 97
6488	8-10	8L. 14	10S. 34

Symbol	Chromosomes	Chromosomal Designation	
6498	6-7	6L.16	7S.48
6504	4-9	4L.09	9S.83
6522	5-6	5S.87	6L.87
6531	7-8	7 near cent.	8 near cent.
6534	3-4	3L.48	4L.89
6557	3-7	3 near cent.	7S.59
6559	5-6	5S.72	6L.09
6560	4-5	4S.32	5S.21
6566	3-6	3L.41	6L.35
6575	4-7	4S.38	7S.32
6580	2-5	2L.09	5S.09
6587	4-10	4L.55	10L.53
6591	1-8	1S.18	8S.43
6598	6-7	6L.43	7L.61
6612	5-8	5S.59	8L.66
6623	4-6	4L.18	6L.31
6653	8-10	8L.04	10L.06
6656	2-9	2L.32	9S.31
6662	4-10	4L.04	10L.03
6671	2-6	2S.23	6L.22
6673	8-9	8L.32	9S.33
6691	3-10	3L.30	10L.87
6695	3-5	3 near cent.	5 near cent.
6697	1-8	1L.89	8L.52
6722	3-9	3S.66	9S.66
6743	4-5	4L.56	5S.59
6750	2-3	2L.76	3S.53
6760	5-10	5S.78	10S.40
6762	1-9	1S.16	9L.53
6766	1-8	1L.54	8L.77
6796	1-7	1S.40	7S.39
6830	5-10	5 near cent.	10 near cent.
6831	4-5	4S.32	5S.59
6853	2-10	2L.79	10L.86
6861	1-3	1L.04	3L.65
6862	2-3	2S.39	3L.20
6873	6-8	6L.21	8L.29
6883	1-2	1L.63	2L.52
6884	1-3	1L.17	3L.19
6885	6-7	6L.33	7S.58
6885	2-5	2L.63	5S.79
6891	1-2	1S.14	2S.83
6892	1-2	1L.30	2L.35
6899	1-5	1S.32	5S.20



Symbol	Chromosomes	Chromosomal Designation	
6921	8-9	8L. 85	9L. 15
6926	4-8	4L. 60	8L. 71
6931	2-6	2L. 24	6L. 23
6978	7-9	7L. 62	9S. 83
		7L. 15	8S. 49
6981	7-8	7S. 45	8L. 09
6994	2-4	2S. 61	4L. 95
7036	6-7	6S. 90	7L. 70
7037	4-6	4L. 61	6S. 77
7041	3-9	3S. 59	9L. 70
7043	3-5	3L. 63	5L. 61
7067	4-7	4L. 14	7S. 60
7067	3-6	3L. 07	6L. 75
7068	5-8	5S. 18	8L. 18
7069	2-8	2L. 13	8L. 14
7074	7-9	7L. 03	9S. 80
7078	4-5	4L. 05	5L. 10
7096	2-9	2S. 57	9L. 66
7097	1-6	1S. 46	6L. 62
7102	5-8	5L. 48	8S. 10
7103	9-10	9L. 73	10L. 88
7108	4-7	4S. 17	7S. 45
7136	4-5	4L. 45	5L. 33
7142	5-10	5L. 73	10L. 17
7149	7-8	7L. 56	8L. 65
7162	3-6	3L. 52	6L. 53
7205	5-9	5L. 21	9L. 90
7211	1-2	1L. 57	2L. 79
7212	1-5	1L. 44	5S. 28
7267	1-5	1L. 92	5L. 82
7285	2-3	2L. 26	3L. 39
7309	1-2	1S. 90	2S. 89
7328	4-6	4S. 53	6S. 89
7362	3-8	3L. 07	8L. 69

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