

Supplementary Table 2: Verified *Drosophila* FLP Assays

Chromosome Arm	Assay	Oligo fwd	Oligo rev	Genetic Position	Physical Position	Cytological Position	Length EP	Length FRT	Length of Other Alleles	Note	Designed by
2L	2L017	GCAAAGCGTCGATATGACAGC	CATGCGTGAGTTCCCCCTAC	2-3/4	2L:1675916..1676066	22B4	148	150	149 (ywWG)		this study
	2L030	CCCCTTGAAGACCTCCCTCATTTT	CACCTGGGTTCCCTGGTTTCTGTTT	2-8/9	2L:3383921..3384100	23E3	158	179			Berger et al.
	2L038	TCGATTTCCATCTAATCAACCTGTG	AAATGAGTTTGAAGCCATCGC	2-13	2L:4368759..4368910	24E4	150	152			this study
	2L051	TTTACGGCTTGGCTGGTAGCTC	GAACAGATTACAGGGCATGGTGC	2-17	2L:5565351..5565531	25F1	181	174	178 (ywGT)		this study
	2L057	GCAAAACGAGTAATGGGCTGTAAACAA	GGATTAGTTTTFAGACCAAAATGGGAGCAAC	2-20	2L:5950022..5950152	26A3	128	149			Berger et al.
	2L069	GTGGTGCAGAAAGATAAACCAAAATAACTGG	TCATTGATTGAAACGCTGAAAGTTTTAAAGG	2-24	2L:7729483..7729625; 2L:7723343..7723485	28C1	151	139		fragment located in perfect repeat, both fragments seem to exhibit the same polymorphism	Berger et al.
	2L075	GTTATGTCTTCCCTCGCTGTCG	CATAAAAGGCAGAAGGCAGCAC	2-30	2L:8566862..8566967	29E2	99	104			this study
	2L088	TCCTACGACATTAGTATATGTTTGTCTTTGG	GCTCCACGTTGACCGACTCACA	2-34	2L:9835196..9835203	30D1	281	250	277 (FRT2R)		Berger et al.
	2L090	TCATGCGCTCGAGTTTTCAGC	CTGAACGATAATCAGAGGAGGG	2-38	2L:10076927..10077038	31A2	109	110			this study
	2L093	CCCTGTGCTTGGTTGGTGGATTTTT	CGGAAAACCTTACTTTTCGTTACGCTCA	2-41.3	2L:10435288..10435462	31E1-2	164	148			Berger et al.
	2L119	CGAAAACGTAGCGCAACCACTACAGA	AAATGGCAGGGCGAAAGACCAAA	2-46/47	2L:12921612..12921731	34A2	115	126			Berger et al.
	2L143	GTAGTCCAGCCCACTGTTCCCTC	TTACAATGCAAAATAGTCCCGTACACATC	2-51	2L:16310964..16311171	35F1	209	191			Berger et al.
	2R017	CTCAGCGTGGGCTGAGATATGAA	TCAACAACGAAGGAGAGGAAGGAGTG	2-59/60	2R:4570039..4570211	45F3-4	171	141	140 (F42w+cl), 169 (ywWG), 173 (ywGT)		Berger et al.
	2R039	CATCGCCCTCTGCGTTTCAGTTT	GCCGCCATTTGTTGTCCTTTT	2-64	2R:7269220..7269415	48E10	179	195			Berger et al.
2R051	CAGTCGGCAATCGATCCGTT	GATTAACCCGTTTACATCATTACTCC	2-68	2R:8076748..8076866	49E7	113	115			this study	
2R057	TCAGGCGATGACAAATGCTATCG	CATTCCTCAATGGCTTGGCCG	2-69	2R:8963534..8963751	50C9		215			this study	
2R058	AAACGCTTGAATGAACCTCCACAG	TCGGGACTATGCGAGGTTCAAG	2-69	2R:8994529..8994702	50C9	171				this study	
2R060	ACTGAAAACAGCGGCGCCACAG	TTCTCCGGAGACCTTCAACTG	2-70	2R:9182178..9182320	50D7	143	149			this study	
2R061	ATGTGCTTATCACACATGACTTACG	GATCATAACAGCCCTTGAATTCAGC	2-70	2R:9287368..9287674	50E4		312			this study	
2R068	TCACCCCTAAATAGTTTGGTGGTCTGAAAA	TGGGAGCAATGACAAACAATAGACC	2-73	2R:10139945..10140151	51D12	206	200	213 (ywGT)		Berger et al.	
2R083	TCACAAGCCCTCAACCAATACCATC	CGATGGCTTCAAGGCGACACA	2-77/78	2R:11749308..11749499	53C11	191	179	190 (F42w+cl)		Berger et al.	
2R090	ATCTTATGGCAACGATGATCAAC	TTTTGTGTTCCGCTTCAGCTT	2-80	2R:12466048..12466182	54B5	128	129			this study	
2R096	CAGGATTTGATGGATTTATGCTTTGCT	TGTAAAAATGTAAGTGTAGGGCTTCCCGTGT	2-84	2R:13256746..13257052	55B12	352	306			Berger et al.	
2R109	CCTGCTCCATGCATGAAAGAAAT	TGTCTGCACAGGAAATCAGATCAAG	2-90	2R:15199874..15200115	56F6	225	240	238 (ywWG), 227 (EP2L)		Berger et al.	
2R114	TGACCACAATGAAAGAGAGACACC	TCTCGCAGCCATTTCTGTTGT	2-93	2R:15540995..15541302	57A2-3	310	298	312 (ywWG)		PLP assay from Berger et al. yields equally sized fragments	this study
2R118	CTCGGTTGTTGGGTCAGTTC	GGCTCGTCAATGGGAAGATGTC	2-97	2R:16117936..16118168	57B16-19	227	226	233 (F42w+cl)		this study	
2R124	TCTCCTGCTTACATCAGCTC	ATAAGCAGCTGCAAAAAGTGC	2-99	2R:16840885..16841075	58A1	191	205			this study	
2R130	GGACTCCGCAATGAAATGATT	CCGAATCTGGACGAGGATCGC	2-102	2R:17944246..17944461	59B4-6	215	232	224 (F42w+cl)		this study	
2R139	AAGTAGAAGACTTTCGTATCAGCCCTTGA	AGTGACGAGGCAAAATCGGAGAA	2-105	2R:18613182..18613396	59F1-4	215	232			this study	
3L021	AACAATAAATCTTGGCGGTGGCATGG	CAGTGGGACTGTGCTGCTGCTGT	3-4.4	3L:2807890..2808083	63A1-2	204	193	198 (ywWG)		Berger et al.	
3L031	CGGCGGTAACATGAACTTATAAAGTTTTC	GGGGAATCGGAAGATAGCTCACTAGGTTTTT	3-67	3L:3756972..3757142	63E8-F1	188	167	170 (ywWG)		Berger et al.	
3L041	TTGCACTGCGCCTCATTTTCAATTTT	CCAACCCACTCGCCTCTTTATTTTC	3-167	3L:5182688..5182855	64C9-11	193	164			Berger et al.	
3L058	GTCTTTCAAGGTGCTGTATGATATGAG	AAACATGATGTTGACCCAGAACGACA	3-21/267	3L:6563657..6563786	65B4-5	127	141	142 (ywGT)		Berger et al.	
3L064	GGCAAGTATCAAAGTTCACTTTTCCCACAAAC	GACTACCACATACCCTGACCCCGAAA	3-23/25.87	3L:7022923..7023082	65E2-3	158	135	159 (ywWG)		Berger et al.	
3L076	CTGCATATTAGTTGGTCTCTGG	ATGAATTAATCATGACCGCTACAC	3-24.5/26.57	3L:8220820..8220996	66C1	170	174	176 (ywGT)		PLP assay from Berger et al. yields equally sized fragments, does not amplify from FRT3R	this study
3L083	TTACACGGCCAGCAACAGATT	AATGCCAACAATAAGCTGGAA	3-277	3L:9256894..9257245	67A4	365	359	354 (ywWG)		this study	
3L086	CGAGAAATCAACAAGTAAATAGCTCCAAAGCTGAA	TGGTATTATATGGCAATGGAACGGGACA	3-28.9	3L:9701662..9701862	67C5	200	216			Berger et al.	
3L094	CAAGGGCCGCAATAAATAAGAGTAACAGA	ACTTTGGCCCAAAAACCGACAAC	3-34	3L:10614298..10614501	67E5	193	203			Berger et al.	
3L105	GTTTGGCAGGCGACATCCGACA	GGCTAACTGGCCCATACATTTATTTGGCTTT	3-37/38	3L:12442262..12442489	69C2	227	208			Berger et al.	
3L127	GCACAATAAACCAACAGACGCTCACA	GAAAATAAATGAGGAAAATCGCCGCAAC	3-42/43	3L:15416126..15416338	71C2	197	209			Berger et al.	
3L148	GGTGCACTCACAGAAAACAGGTATG	CCCCAGATCCATTCTACTGCTCGC	3-45	3L:17527301..17527637	74D2-3	338	333			this study	
3R061	GCACATGAACATGAGACATACATTTAAACAAA	TCGMAATGCCGACCAAAATAGTGA	3-51	3R:8555097..8555250	87C4	142	152			Berger et al.	
3R074	TTTTAGAAGGCAACCGCAGC	GTTAGAAGCCTTCTCCCGCC	3-55	3R:10630472..10630613	88D2	140	141			this study	
3R092	GCGACAGGCAAAAACTCCTGT	AAGATCAATTCACAGTTCCTCACGATG	3-59	3R:13035430..13035681	89F1	250	215			Berger et al.	
3R122	TGAAACCTGTTAGGCTTTTTCACACCTT	GGGAATGAGTTAGCAAGTGCCTTTTGT	3-64/65	3R:14763052..14763240	91D3	173	188			Berger et al.	
3R151	CCATGTCGCACTTCTTTGATATTTGCTTTC	CAAGGCTCAGCAGACAGGCATC	3-68	3R:16242420..16242614	92E4	194	210			Berger et al.	
3R160	CAATGTGACAGATTAAACGCT	GCTGTGAGCTTCTAGTTTGAAT	3-72	3R:17362917..17363093	93E2	175	176			does not amplify from some strains	this study
3R162	CCTTTACAGACCTCAAACCTTAAG	GTTTTCTCGCTGGTGAACG	3-73	3R:17618105..17618307	93F					this study	
3R169	TTCAAATTAACAAGAAAAATAGCTCGATTGGTGT	GTGTGAGCGAGCGAGCAGAG	3-75/76	3R:18484054..18484270	94B5	198	214			Berger et al.	
3R186	TCCGCTGCGTGTGTAAGATTAGC	GCTATTGCCCACTGTGCCGTA	3-81	3R:19738563..19738693	95C9-11	130	134			this study	
3R192	AGCCAGAGTTTATGATCCCAACAT	CGAGCTGTGGTTCGCTTG	3-86	3R:20556900..20557073	96A18-19	178	173			this study	
3R204	TGCCCTTATTAATGACCCCAAAAACCT	CTTTTGTGCTTTATATCAAGCTTTGGGAAA	3-90	3R:22075356..22075533	97A4	187	177			Berger et al.	
3R221	CGATTAAGGAAATGCCCGCTGT	AGTGTGTGCCCTGTGCTGTGTGT	3-95	3R:24907858..24908171	98F5	365	309	311 (ywWG)		Berger et al.	
3R224	GGAAACATCCTGTAGGAGATGTCAGAGGA	AGGCGGGACCAAGAACGGTAA	3-99	3R:25285399..25285586	99A5-8	190	180	187 (ywWG)		Berger et al.	