

Table S3 Localization of bands and interbands of the fourth chromosome on the molecular map of the *Drosophila* genome

Band/interband	Start (dm3)	End (dm3)	FISH probes	Genetic content
101E1-2	24000	61999	PlexB	Coding part (<i>PlexB</i>)
101E1-2/F1	62800	66399		5'UTR (<i>PlexB</i>)
101F1	66400	76599	ci	Coding part (<i>ci</i>)
101F1/102A1-2	76600	91799		5'UTRs of two genes (<i>ci</i> , <i>pan</i>) and one whole gene (<i>RpS3A</i>)
102A1-2	91800	148599	pan	Coding parts of two genes (<i>pan</i> , <i>Ank</i>)
102A1-2/A4-5	149400	157399		5'UTRs head-to-head (<i>Ank</i> , <i>CG32000</i>)
102A4-5	157400	198799	CG32006	Polygenic (<i>CG32000</i> , <i>CG32006</i> , <i>CG31997</i> , <i>CG33978</i> , <i>Arl4</i>)
102A4-5/A6	198800	200999		5'UTR (<i>Arl4</i>)
102A6	204400	212799		Coding part (<i>CG2316</i>)
102A6/A6'	212800	216599		5'UTR (<i>CG2316</i>)
102A6'	217000	225599		Coding part (<i>CG31998</i>)
102A6'/A6''	225600	231799		5'UTRs head-to-head (<i>CG31998</i> , <i>Crk</i>)
102A6''	231800	246599		Coding parts of two genes (<i>Crk</i> , <i>CG31999</i>)
102A6''/B1-2	246600	248799		5'UTRs head-to-head (<i>CG31999</i> , <i>yellow-h</i>)
102B1-2	248800	326199	Nfi	Polygenic (<i>yellow-h</i> , <i>CG1674</i> , <i>dpr7</i> , <i>RhoGAP102A</i> , <i>Nfi</i> , <i>Syt7</i>)
102B1-2/B3-4	326200	338199	Zip102B	5'UTRs of two genes (<i>Syt7</i> , <i>CG32850</i>) and two whole genes (<i>Rad23</i> , <i>Zip102B</i>)
102B3-4	338400	378199		Coding parts of two genes (<i>CG32850</i> , <i>PMCA</i>)
102B3-4/B5-6	378400	382199	Hcf	5'UTRs head-to-head (<i>PMCA</i> , <i>Hcf</i>)
102B5-6	382600	463799	Lin29	Polygenic (<i>Hcf</i> , <i>dati</i> , <i>Igs</i>)
102B5-6/B7	463800	469399		5'UTRs head-to-head (<i>Igs</i> , <i>CaMKI</i>)
102B7	469800	476399		Coding part (<i>CaMKI</i>)
102B7/B8-9	479600	488999		5'UTRs head-to-head (<i>bip2</i> , <i>CG33941</i>)
102B8-9	489600	501799		Coding parts of two genes (<i>CG33941</i> , <i>Asator</i>)
102B8-9/C1-2	501800	507799	Asator	5'UTR (<i>Asator</i>)
102C1-2	507800	576199	zfh2	Two genes (<i>zfh2</i> , <i>Thd1</i>)
102C1-2/C3	576400	579799		5'UTRs head-to-head (<i>Thd1</i> , <i>Pur-alpha</i>)
102C3	579800	590599		Coding parts of two genes (<i>Pur-alpha</i> , <i>ND-49</i>)
102C3/C4-5	590600	593399		5'UTRs head-to-head (<i>ND-49</i> , <i>Ephrin</i>)
102C4-5	593400	630399	CG1909	Polygenic (<i>Ephrin</i> , <i>CG1909</i> , <i>onecut</i>)
102C4-5/C6-7	630600	632999	Eph	5'UTR (<i>Eph</i>)
102C6-7	634000	679399	mav, Ekar	Polygenic (<i>Eph</i> , <i>mav</i> , <i>Gat</i> , <i>Ekar</i> , <i>gw</i>)
102C6-7/C8	679400	692399	Slip1	5'UTRs of two genes (<i>gw</i> , <i>CG11360</i>) and one whole gene (<i>Slip1</i>)
102C8	700800	714599		Coding parts of two genes (<i>CG11360</i> , <i>myo</i>)
102C8/D1-2	714600	718599	myo	5'UTRs head-to-head (<i>myo</i> , <i>ey</i>)
102D1-2	718600	807599	bt	Polygenic (<i>ey</i> , <i>bt</i> , <i>MED26</i>)
102D1-2/D4-5	807600	809599		5'UTR (<i>MED26</i>)
102D4-5	817400	886399	Sox102F, 1_Sox102F	Polygenic (<i>Sox102F</i> , <i>fd102C</i> , <i>Gyf</i>)
102D4-5/D6-7	886400	901399	CG11148, unc13	5'UTR (<i>Gyf</i>) and coding part of another gene (<i>unc-13</i>)
102D6-7	901400	950399	1_unc13	Coding parts of two genes (<i>unc-13</i> , <i>eIF4G</i>)
102D6-7/D8	950400	951999	eIF4G	5'UTR (<i>eIF4G</i>)
102D8	955000	968199		One whole gene (<i>mGluR</i>)
102D8/E1-2	968200	984999	mGluR, 4E-T	One whole gene (<i>4E-T</i>) and one 3'UTR (<i>fuss</i>)
102E1-2	985000	1044399	toy	Polygenic (<i>fuss</i> , <i>toy</i> , <i>PlexA</i>)
102E1-2/E3	1045600	1053999	CG11076	5'UTRs of two genes (<i>PlexA</i> , <i>ATPsynbeta</i>) and two whole genes (<i>CG11077</i> , <i>CG11076</i>)
102E3	1054000	1071199		Coding parts of two genes (<i>ATPsynbeta</i> , <i>CaMKII</i>)
102E3/E4-5	1071200	1084199	CaMKII, Zyx	5'UTRs of two genes (<i>CaMKII</i> , <i>apolpp</i>) and one whole gene (<i>Zyx</i>)
102E4-5	1084400	1133399	Rfabg	Polygenic (<i>apolpp</i> , <i>Actbeta</i> , <i>sv</i>)
102E4-5/F1-2	1133400	1145999	Cals	Two whole genes (<i>Cals</i> , <i>Arf102F</i>)
102F1-2	1146200	1201399	CG11155, CG32017	Polygenic (<i>CG11155</i> , <i>CG32017</i> , <i>Kif3C</i> , <i>pho</i>)
102F1-2/F3	1201400	1203799	pho	5'UTR (<i>pho</i>)
102F3	1203800	1233399	CG33521, PIP4K	Polygenic (<i>CG33521</i> , <i>PIP4K</i> , <i>Mitf</i> , <i>Dyrk3</i>)
102F3/F4,5	1233400	1238799	1_Cadps	5'UTRs head-to-head (<i>Dyrk3</i> , <i>Cadps</i>)
102F4,5	1239800	1275599	Cadps	Coding part (<i>Cadps</i>)