

<i>Drosophila melanogaster</i> Chromosome 3L	<b>CG4069</b>							Size = 206144 bp
	5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons	
	12,528,524	12,530,410	1706	1530	509	Reverse	4	
	Gap : 199 bp							
	<b>CG10632</b>							
	5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons	
	12,530,609	12,565,622	35014	1884	627	Reverse	8	
	Gap : 8152 bp							
	<b>araucan</b>							
	5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons	
	12,573,774	12,589,118	15345	2154	717	Forward	5	
	Gap : 14108 bp							
	<b>caupolican</b>							
	5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons	
	12,603,226	12,614,908	11683	2082	693	Forward	5	
	Gap : 6128 bp							
	<b>CG32111</b>							
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons		
12,621,036	12,641,380	20345	513	170	Forward	7		
Gap : 45468 bp								
<b>mirror</b>								
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons		
12,686,848	12,703,243	16396	1926	641	Forward	5		
Gap : 24806 bp								
<b>CG10975-PTP69D</b>								
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons		
12,728,049	12,734,668	6620	4389	1462	Forward	12		
<i>Anopheles gambiae</i> Chromosome 2L	<b>CG4069</b>							Size = 472591 bp
	5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons	
	7,816,277	7,818,115	1838	1672	533	Reverse	3	
	Gap : 2615 bp							
	<b>CG10632</b>							
	5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons	
	7,820,730	7,916,840	96111	1965	654	Reverse	10	
	Gap : 56641 bp							
	<b>araucan/caupolican</b>							
	5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons	
7,973,481	8,020,949	47469	2349	782	Forward	6		
Gap : 57339 bp								
<b>mirror</b>								
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons		
8,078,288	8,136,322	58035	1728	575	Forward	5		
Gap : 150350 bp								
<b>CG5288</b>								
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons		
8,286,672	8,288,868	2197	1769	477	Forward	7		
<i>Nasonia vitripennis</i> Chromosome Unknown Scaffold 12	<b>similar to Juvenile hormone-inducible protein</b>							Size = 422674 bp
	5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons	
	2,251,036	2,301,061	50026	1197	398	Reverse	3	
	Gap : 114367 bp							
	<b>mirror</b>							
	5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons	
	2,415,428	2,442,094	26666	1953	650	Reverse	5	
	Gap : 54098 bp							
	<b>araucan/caupolican</b>							
	5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons	
2,496,192	2,552,257	56066	2112	703	Reverse	7		
Gap : 8427 bp								
<b>CG10632</b>								
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons		
2,560,684	2,669,901	109218	1782	594	Forward	11		
Gap : 2766 bp								
<b>similar to mCG64768</b>								
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons		
2,672,667	2,673,710	1044	1044	347	Forward	1		
<i>Tribolium castaneum</i>	<b>CG31638</b>							

Linkage Group 3  
Scaffold 12

5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,629,351	1,636,576	7226	1557	518	Forward	6
<i>Gap : 1051 bp</i>						
<b>CG10632</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,637,627	1,718,132	80506	1395	464	Reverse	9
<i>Gap : 322 bp</i>						
<b>araucan/caupolican</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,718,454	1,845,814	127361	1939	710	Forward	9
<i>Gap : 135 bp</i>						
<b>mirror</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,845,949	1,879,353	33405	1377	458	Forward	5
<i>Gap : 176682 bp</i>						
<b>CG5288</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
2,056,035	2,072,204	16170	1044	459	Forward	7

Size = 442853 bp

*Daphnia pulex*  
Scaffold 33

<b>GNO_270333</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
769,040	770,090	1855	1046	288	Reverse	4
<i>Gap : 55246 bp</i>						
<b>mirror</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
825,336	836,158	8150	2775	925	Reverse	5
<i>Gap : 25759 bp</i>						
<b>araucan/caupolican</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
861,917	871,863	9946	1939	784	Reverse	9
<i>Gap : 4856 bp</i>						
<b>CG10632</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
876,719	893,462	16744	1713	570	Forward	11
<i>Gap : 489 bp</i>						
<b>Pumpless</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
893,951	894,387	437	366	123	Reverse	2

Size = 125347 bp

*Pediculus humanus corporis*  
Supercontig 1103172108298

<b>Dynein, axonemal, heavy chain 5 [CG9492]</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
166,574	184,606	18032	10980	3660	Reverse	39
<i>Gap : 5376 bp</i>						
<b>CG10632</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
189,982	233,138	43210	1713	500	Reverse	8
<i>Gap : 4207 bp</i>						
<b>araucan/caupolican</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
237,345	286,802	49458			Forward	
<i>Gap : 51009 bp</i>						
<b>mirror</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
337,811	355,532	17721	1575	525	Forward	5
<i>Gap : 79073 bp</i>						
<b>Thioredoxin like protein</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
434,605	434,976	372	372	124	Forward	1

Size = 268402 bp

*Caenorhabditis elegans*  
Chromosome I

<b>C41G7.7</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
9,533,571	9,536,262	2692	471	156	Reverse	6
<i>Gap : 194 bp</i>						
<b>lrx (C36F7.1)</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
9,536,456	9,540,959	4504	1134	377	Reverse	5
<i>Gap : 3780 bp</i>						
<b>CG10632 (C36F7.2)</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
9,544,739	9,558,087	13349	897	298	Forward	8

Size = 40797 bp

Gap : 7298 bp						
<b>similar to CG32791 (C36F7.4b)</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
9,565,385	9,574,368	8983	843	280	Reverse	10

*Trichoplax adhaerens*  
Scaffold 4

<b>Myosin3 MHCA</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
5,176,906	5,187,217	10312	4344	1448	Forward	
Gap : 7933 bp						
<b>Carbonic anhydrase related protein VIII</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
5,195,150	5,198,703	3553			Forward	
Gap : 28043 bp						
<b>Irx</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
5,226,746	5,228,948	2202			Forward	
Gap : 2934 bp						
<b>Peroxisomal LON</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
5,231,882	5,246,517	14635			Forward	

Size = 69611 bp

*Capitella spl*  
Scaffold 402

<b>phosphorylated CTD interacting factor 1</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
81,537	84,783	3247	1587	1950	Reverse	10
Gap : 9009bp						
<b>Irx-3</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
94,772	102,257	7491	1434	477	Reverse	6
Gap : 6096 bp						
<b>CG10632</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
108,353	145,607	37255	1587	527	Forward	11
Gap : 9020 bp						
<b>Irx-1</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
154627	159328	4701			Reverse	
Gap : 9425 bp						
<b>Irx-2</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
168,753	172,225	3472	1080	360	Forward	5
Gap : 4897 bp						
<b>coiled-coil domain containing 90A</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
177,122	180,520	3398	780	260	Reverse	7

Size = 98983 bp

*Lottia gigantea*

<b>CG10632</b>							
Scaffold 838	5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
	1,547	11,895	10348	1425	474	Forward	12

*Lottia gigantea*  
Scaffold 9

<b>Fantom</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,194,379	1,212,782	18404	4032	1344	Reverse	35
Gap : 29570 bp						
<b>Irx-4</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,242,352	1,247,808	5457	1299	433	Forward	5
Gap : 47575 bp						
<b>Irx-2</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,295,383	1,303,744	8362	1293	430	Forward	6
Gap : 34139 bp						
<b>Irx-1</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,337,883	1,349,426	11544	1386	461	Reverse	5
Gap : 304880 bp						
<b>Irx-3</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,654,306	1,669,438	15133	1458	485	Reverse	6
Gap : 99740bp						
<b>Serotonin Receptor</b>						

Size = 578630 bp

5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,769,178	1,773,009	3832	933	311	Forward	2

*Branchiostoma floridae*  
Scaffold 90 ou 632

<b>Myosin3 MHCA</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,661,617	1,679,697	18081	3669	1223	Reverse	
Gap : 19281 bp						
<b>CG10632</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,698,978	1,753,608	54630	1509	502	Reverse	11
Gap : 14900 bp						
<b>Irx-C</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,768,508	1,772,293	3786	1461	486	Forward	7
Gap : 79295 bp						
<b>Irx-A</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,851,588	1,854,615	3028	1488	495	Forward	7
Gap : 36719 bp						
<b>Irx-B</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,891,334	1,895,774	4441	1485	494	Reverse	7
Gap : 32745 bp						
<b>Carbonic anhydrase related protein VIII</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,928,519	1,935,833	7314	846	282	Reverse	7

Size = 274216 bp

*Homo Sapiens*  
cluster IrxB  
Chromosome 16

<b>FTO</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
52,295,376	52,705,882	410507	1518	505	Forward	9
Gap : 168831 bp						
<b>Irx-3</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
52,874,713	52,877,879	3167	1506	501	Reverse	4
Gap : 644733 bp						
<b>Irx-5</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
53,522,612	53,525,898	3287	1452	483	Forward	3
Gap : 390074 bp						
<b>Irx-6</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
53,915,972	53,922,173	6202	1341	446	Forward	6
Gap : 148416 bp						
<b>MMP2 matrix metalloproteinase 2</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
54,070,589	54,098,104	27516	1983	660	Forward	12

Size = 1,802,728 bp

*Homo Sapiens*  
cluster IrxA  
Chromosome 5

<b>NDUFS6 NADH dehydrogenase</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,854,509	1,869,165	14657	375	124	Forward	4
Gap : 61384bp						
<b>Irx-4</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
1,930,549	1,935,880	5332	1560	519	Reverse	5
Gap : 864000bp						
<b>Irx-2</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
2,799,880	2,804,769	4890	1416	471	Reverse	4
Gap : 844399bp						
<b>Irx-1</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
3,649,168	3,654,517	5350	1443	480	Forward	4
Gap : 644733 bp						
<b>ADAMTS16 ADAM metalloproteinase with thrombospondin type 1 motif, 16</b>						
5' position	3' position	Gene size (nt)	CDS Size (nt)	protein Size (aa)	Orientation	Total number of exons
5,193,443	5,373,412	179970	1443	480	Forward	4

Size = 3,518,903 bp