

BLASTZ alignments downloaded from UCSC Genome Browser (<http://genome.ucsc.edu>) for *de novo* genes (Karolchik et al. 2003; Schwartz et al. 2003). Numbers beside the alignments correspond to the genome positions in *D. melanogaster* (Apr. 2004 assembly) or other outgroup species.

CG33666

```

5178419 tcttcttcgtcttcaggttgtctggaatga-----ttatgtttaacattgggcagtt 5178471
>>>>>> || | ||| | || |||| | | ||||| || | ||||| || | ||||| || | >>>>>>
6322041 tcattctcgccttcggagt agtctgtcaacggatatgagcttatgtataatattggtcaatt 6322100

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5178472 cattgtgtgtttttacgtacc 5178492
>>>>>> ||||| ||||| >>>>>>
6322101 tattgtgtgtccatacgtacc 6322121

5178493 ttttttttttgaactcgaaacttatttctccgtaatatatgtgtcgagtgacaata 5178548
>>>>>> ||||| ||||| || ||||| ||||| || ||||| | >>>>>>
6322153 aattttttttgtgatcgaaaccttactt-gccgtactatacgtgttgactgactg-a 6322206

CG2042

Alignments between *D. melanogaster* and *D. simulans*

20956334 tattatctttgttttatgaccttttggttcactgaatttttacctttgacttcagccctt 20956393
>>>>>>> | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| >>>>>>>
21347800 tcttatctttgttttatgaccttttggttgactggatttttacctttgacttcagcacctt 21347859

20956394 tgctcctggtagccatggaagacgtcgaatgtcgacgggttgagacttcgcatttttagct 20956453
>>>>>>> ||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| >>>>>>>
21347860 tgccccaggtagccatggaagacgtcaatgtcgacgggtt-----tagct 21347903

20956454 attgagccgcttggcggtaaacttcttttttcccgggtgtggatcat 20956500
>>>>>>> |||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| >>>>>>>
21347904 attgtgccgcttggcggtaaacttccatttttcccgggtggggatcat 21347950

***D. melanogaster* species complex specific de novo genes**

CG15323

Alignments between *D. melanogaster* and *D. yakuba*

19830934 aaccgaactgagaacacgacttcctgatggcggaggatcctgggcagtcgagtgaatcg 19830993
<<<<<<< || || || || ||||| || || || || ||||| ||||| ||||| ||||| <<<<<<<
19944386 aaggcatctaaaaacaacagttacatgacgagcagaggatcctgagcagccaagtgaatcg 19944327

19830994 actgggatgtatacaccggtccagtcgcagagtctcgtcgttcacagag 19831041
<<<<<<< | |||| || || || ||||| || ||||| <<<<<<<
19944326 -----tccaccag-aaggagaagggttcgcagtcttcagag 19944291

19831066 tccgagga 19831073
<<<<<<< ||||| <<<<<<<
19944290 tccgagga 19944283

19831140 agaattctttgagcgaacagcgccagcgctcgatcgcgaaataaaggatctggacgcagt 19831199
<<<<<<< |||| || || || || ||||| |||| ||||| ||||| || || || <<<<<<<
19944282 agaatactttaagaatgtgtccgagcgcttcgataaaggacataaaggacctgaaagatct 19944223

19831200 gattgccagcgaggagaaggagtgcataagac 19831231
<<<<<<< ||||| || ||||| || ||||| || <<<<<<<
19944222 gattgccctgaatgagaaggaatgtaataagc 19944191

Alignments between *D. melanogaster* and *A. mellifera*

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2289107 tcttttcaatcgaatccttt---ttatcagattgttgaaaaatcagaaaaatcagttaaa 2289163
<<<<<< | ||||| | | ||| | ||| | ||||| ||||| || ||||| <<<<<<
7257864 tgccatcaattaagtgat tttagctcatcgcg-ccattgaa-----gaaaattccttttaa 7257812

2289164 tccgattaatccttgatatctatct-tacgtttgttgatttttaaaaattagtttactc 2289222
<<<<<< | ||| ||||| | ||| ||||| | ||| ||| | ||| <<<<<<
7257811 t---atttatcttgcagagctctctctaactcgtagttgggttctgaag----- 7257768

2289223 atcttctgataaaactaatcctttgaaaaagaccttgaccttcaattagattccctccgatt 2289282
<<<<<< ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| <<<<<<
7257767 ---ttccgatttgttagtattggaaacgag---ggttccattt---ttttgttggtg 7257718

2289283 atagt-----tgaaaaatttaaaattttggataaaagagagattccat 2289325
<<<<<< ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| <<<<<<
7257717 atgggtgacagcaccttgttgtctggcaattatatgagcttagatataacaatggtc--- 7257662

2289326 agttttttttttttt--ttcttttcaatcgaatcct-ttttatc---aactcgaataata 2289379
<<<<<< ||||| ||| ||| ||| ||| ||| ||||| ||||| ||| ||| ||| ||||| <<<<<<
7257661 agttcattctgtgttcatacgtaccaa--gaatcttat tttgtttaaaatcagaaaaata 7257604

2289380 atttttta-----aaatttgtc 2289396
<<<<<< ||||||| | ||| ||| <<<<<<
7257603 tttttttatgttaagatcgaacctcactttctc 7257571
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Alignments between *D. melanogaster* and *D. yakuba*

```

09918006 atcttaatatagtttatgttttgagtaatgtaatacaactttgtaagagcaacgaattt 09918065
>>>>>> || ||| || || ||| | ||||| || ||||| ||| ||| ||| ||| >>>>>>
15669538 attcgaatgtaattattatttaggtaaagttagtataactttgtaaggaacaacaaattt 15669597

09918066 cgcgtactttatctcttttatttatgtttgttgatttttaaatacataataaatttttaa 09918125
>>>>>> || ||||| || ||||| |||| | ||| || ||||| >>>>>>
15669598 attttattttatcagcttcatttatattttgccg-----ataacaagtttttag 15669646

09918126 atcacaaataaacgtttggctaacaggtgttatcgaqtgatccaattggatagaqgtttc 09918185

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References

Schwartz, S., Kent, W.J., Smit, A., Zhang, Z., Baertsch, R., Hardison, R.C., Haussler, D., and Miller, W. 2003. Human-mouse alignments with BLASTZ. *Genome Res* **13**: 103-107.