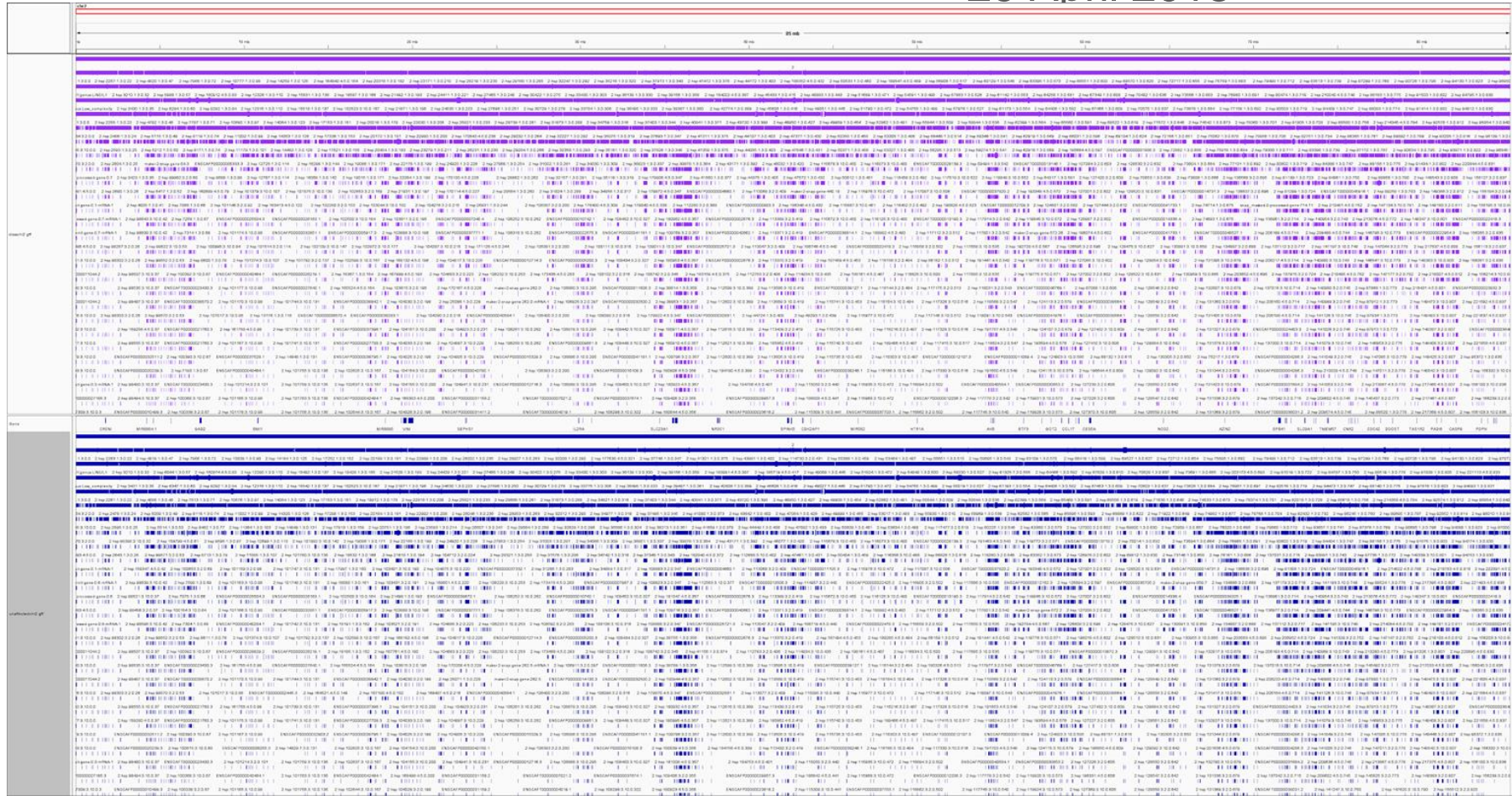


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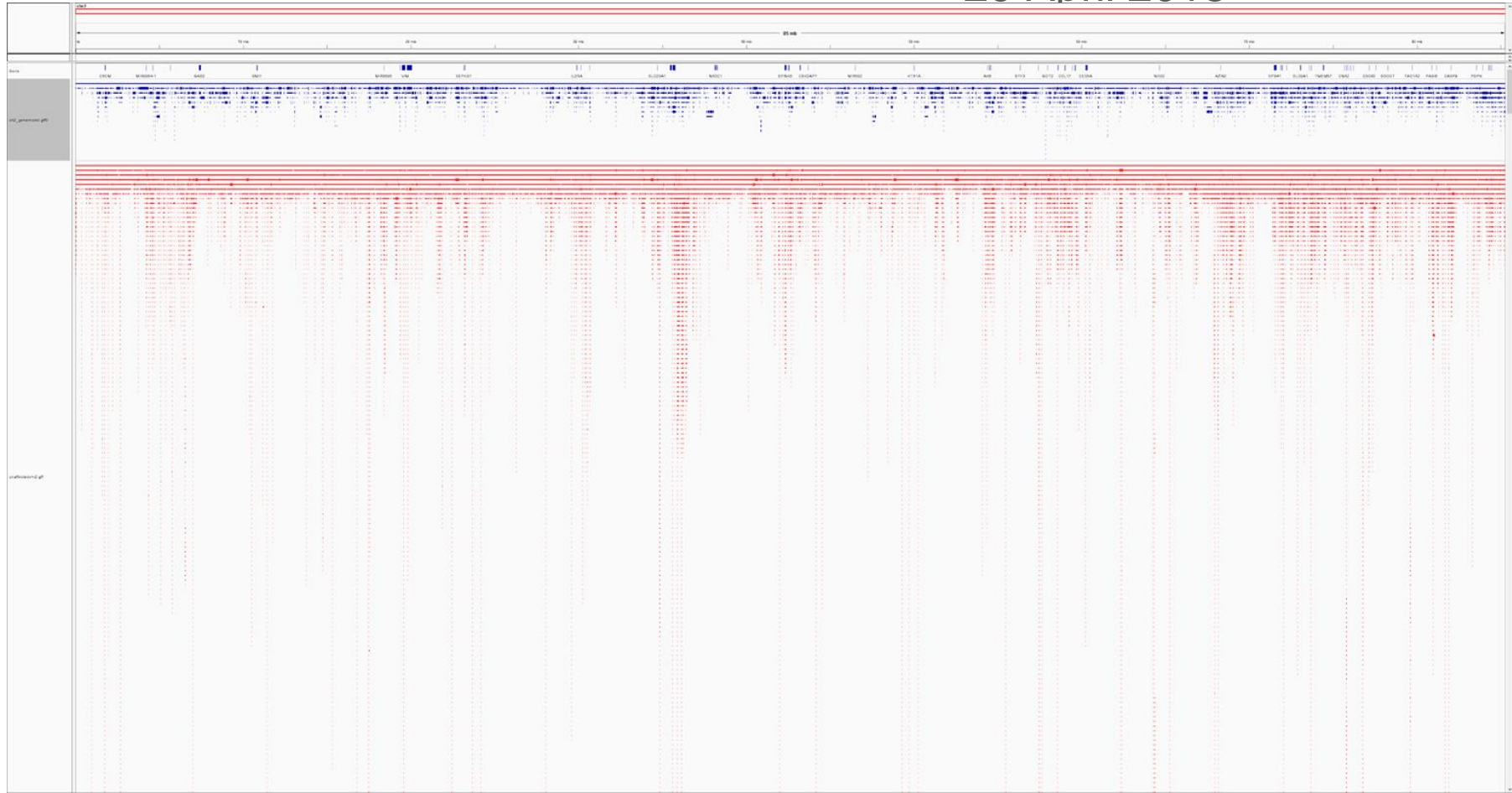
Jochum, Michael D. CG1808 Canis lupus familiaris Chromosome 2 gene model comparison

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```
# gffcompare v0.10.1 | Command line was:
#gffcompare -r unaffectedchr2.gff -o fast_vs_unaff fastchr2.gff
#

# = Summary for dataset: fastchr2.gff
#   Query mRNAs : 1034 in 1034 loci (796 multi-exon transcripts)
#   (0 multi-transcript loci, ~1.0 transcripts per locus)
# Reference mRNAs : 1034 in 1034 loci (796 multi-exon)
# Super-loci w/ reference transcripts: 1034
#-----| Sensitivity | Precision |
Base level: 100.0 | 100.0 |
Exon level: 100.0 | 100.0 |
Intron level: 100.0 | 100.0 |
Intron chain level: 100.0 | 100.0 |
Transcript level: 100.0 | 100.0 |
Locus level: 100.0 | 100.0 |

Matching intron chains: 796
Matching transcripts: 1034
Matching loci: 1034

Missed exons: 0/6460 ( 0.0%)
Novel exons: 0/6460 ( 0.0%)
Missed introns: 0/5426 ( 0.0%)
Novel introns: 0/5426 ( 0.0%)
Missed loci: 0/1034 ( 0.0%)
Novel loci: 0/1034 ( 0.0%)

Total union super-loci across all input datasets: 1034
1034 out of 1034 consensus transcripts written in
fast_vs_unaff.annotated.gtf (0 discarded as redundant)
```

```
# gffcompare v0.10.1 | Command line was:
#gffcompare -r unaffectedchr2.gff -o slow_vs_unaff slowchr2.gff
#

# = Summary for dataset: slowchr2.gff
#   Query mRNAs : 1034 in 1034 loci (796 multi-exon transcripts)
#   (0 multi-transcript loci, ~1.0 transcripts per locus)
# Reference mRNAs : 1034 in 1034 loci (796 multi-exon)
# Super-loci w/ reference transcripts: 1034
#-----| Sensitivity | Precision |
Base level: 100.0 | 100.0 |
Exon level: 100.0 | 100.0 |
Intron level: 100.0 | 100.0 |
Intron chain level: 100.0 | 100.0 |
Transcript level: 100.0 | 100.0 |
Locus level: 100.0 | 100.0 |

Matching intron chains: 796
Matching transcripts: 1034
Matching loci: 1034

Missed exons: 0/6460 ( 0.0%)
Novel exons: 0/6460 ( 0.0%)
Missed introns: 0/5426 ( 0.0%)
Novel introns: 0/5426 ( 0.0%)
Missed loci: 0/1034 ( 0.0%)
Novel loci: 0/1034 ( 0.0%)

Total union super-loci across all input datasets: 1034
1034 out of 1034 consensus transcripts written in slow_vs_unaff.annotated.gtf (0
discarded as redundant)
slow_vs_unaff.stats (END)
```

gffcompare v0.10.1 | Command line was:
#gffcompare -r unaffected_out.gtf -o fast_vs_unaff fast_out.gtf

#= Summary for dataset: fast_out.gtf
Query mRNAs : 98983 in 76026 loci (49987 multi-exon transcripts)
(10729 multi-transcript loci, ~1.3 transcripts per locus)
Reference mRNAs : 53881 in 34894 loci (45545 multi-exon)
Super-loci w/ reference transcripts: 30912
#-----| Sensitivity | Precision |
Base level: 87.9 | 55.1 |
Exon level: 94.2 | 79.5 |
Intron level: 96.3 | 94.5 |
Intron chain level: 83.0 | 75.6 |
Transcript level: 83.8 | 45.6 |
Locus level: 95.1 | 43.6 |

Matching intron chains: 37787
Matching transcripts: 45177
Matching loci: 33176

Missed exons: 3510/265778 (1.3%)
Novel exons: 47226/316131 (14.9%)
Missed introns: 4102/210726 (1.9%)
Novel introns: 2425/214850 (1.1%)
Missed loci: 519/34894 (1.5%)
Novel loci: 40748/76026 (53.6%)

Total union super-loci across all input datasets: 75130
98983 out of 98983 consensus transcripts written in
fast_vs_unaff.annotated.gtf (0 discarded as redundant)

gffcompare v0.10.1 | Command line was:
#gffcompare -r ../unaffected_out.gtf -o slow_vs_unaffected ./slow_out.gtf
#= Summary for dataset: ./slow_out.gtf
Query mRNAs : 87236 in 65097 loci (49198 multi-exon transcripts)
(10447 multi-transcript loci, ~1.3 transcripts per locus)
Reference mRNAs : 53881 in 34894 loci (45545 multi-exon)
Super-loci w/ reference transcripts: 30980
#-----| Sensitivity | Precision |
Base level: 88.5 | 57.4 |
Exon level: 94.2 | 82.8 |
Intron level: 96.2 | 94.8 |
Intron chain level: 82.9 | 76.7 |
Transcript level: 83.7 | 51.7 |
Locus level: 95.1 | 50.9 |

Matching intron chains: 37735
Matching transcripts: 45119
Matching loci: 33185

Missed exons: 3503/265778 (1.3%)
Novel exons: 35920/303457 (11.8%)
Missed introns: 4131/210726 (2.0%)
Novel introns: 2163/213883 (1.0%)
Missed loci: 501/34894 (1.4%)
Novel loci: 29869/65097 (45.9%)

Total union super-loci across all input datasets: 64256
87236 out of 87236 consensus transcripts written in
slow_vs_unaffected.annotated.gtf (0 discarded as redundant)

	maker	maker	stringtie	stringtie
	fast	slow	fast	slow
Query mRNAs	1034/1034	1034/1034	98983/76026	87236/65097
reference mRNAs	1034/1034	1034/1034	53881/34894	53882/34894
Base level	100	100	87.9	88.5
Exon level	100	100	94.2	94.2
Intron level	100	100	96.3	96.2
Inton chain level	100	100	83.0	82.9
Transcript level	100	100	83.8	83.7
Locus level	100	100	95.1	95.1
Matching intron chains	796	796	37787	37735
Mathching transcripts	1034	1034	45177	45119
Matching loci	1034	1034	33176	33185
Missed exons	0.0%	0.0%	1.30%	1.30%
Novel exons	0.0%	0.0%	14.90%	11.80%
Missed introns	0.0%	0.0%	1.90%	2.00%
Novel introns	0.0%	0.0%	1.10%	1.00%
Missed loci	0.0%	0.0%	1.50%	1.40%
Novel loci	0.0%	0.0%	53.60%	45.90%
Total union super-loci	1034	1034	75130	64256
consensus transcripts	1034	1034	98983/98983	87236/87236

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