

ลิขสิทธิ์มหาวิทยาลัยเซียงใหม

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ภาคผนวก ก

คู่มือการใช้โปรแกรมทำนายยืนด้วยวิธี Fickett

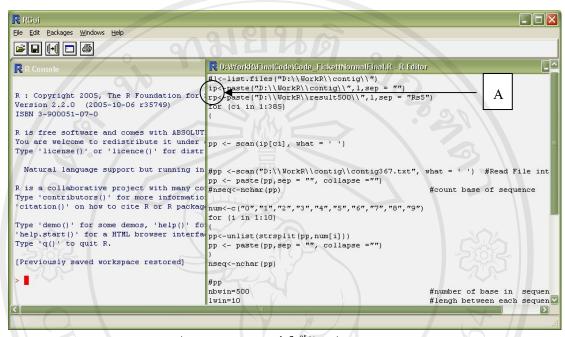
โปรแกรมทำนายยืนด้วยวิธี Fickett พัฒนาโปรแกรมขึ้นใหม่โดยใช้หลักการของ Fickett J.W. (1982) โดยเครื่องมือที่ใช้พัฒนาโปรแกรมคือภาษา R version 2.2.0 โดยใช้ สายลำดับดีเอ็นเอ จีโนมของแบคทีเรียเป็นข้อมูลในการทดลอง ซึ่งแบ่งเป็นสายลำดับเบสย่อย ๆ ที่เรียกว่า contig จำนวน 385 ไฟล์ อยู่ในโฟลเดอร์ contig โดยขั้นตอนการใช้งานโปรแกรมมีดังนี้

1. เปิดโปรแกรม R version 2.2.0 ขึ้นมา หลังจากนั้นเปิด script สำหรับทำนายตำแหน่งยืน โดย สามารถเลือกได้ 3 ไฟล์ คือ ไฟล์ Code_FickettNormalFinal.R เพื่อทำนายโดยอ่านสายลำดับเบสวิธี Normal ไฟล์ Code_FickettBackFinal.R เพื่อทำนายโดยอ่านสายลำดับเบสวิธี Complement และ ไฟล์ Code_FickettReBackFinal.R เพื่อทำนายโดยอ่านสายลำดับเบสวิธี Translate Complement



ฐป ก.1 การเปิด script ในโปรแกรม R version 2.2.0

2. กำหนด input path ซึ่งหมายถึง path ของข้อมูลที่ต้องการนำมาทำนาย ให้ตัวแปล ip และ result path ซึ่งหมายถึง path ที่ต้องการให้นำผลการทำนายไปเก็บไว้ ให้ตัวแปล rp ที่ตำแหน่งที่ A



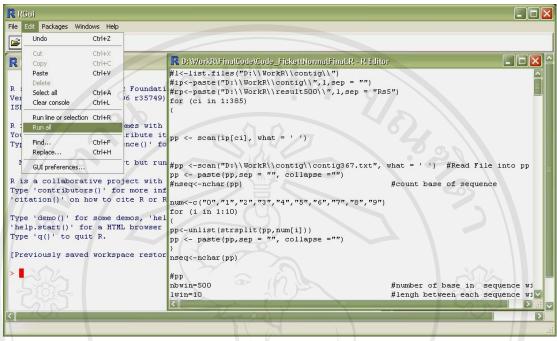
รูป ก.2 การกำหนดค่าให้ตัวแปร ip และ rp

3. กำหนด windows size ที่ต้องการ ให้ตัวแปล nbwin ที่ตำแหน่ง B



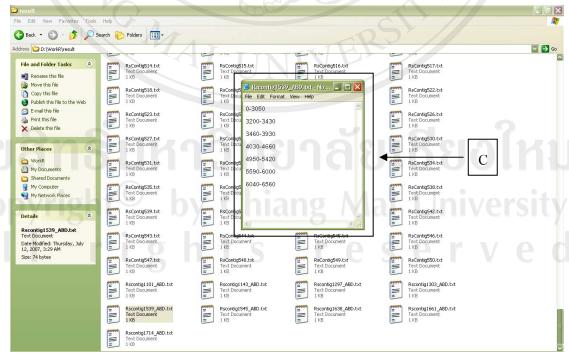
รูป ก.3 การกำหนดค่าให้ตัวแปร nbwin

4. เลือกคลิกเมนู Edit เลือก Run all



รูป ก.4 การ Run script ในโปรแกรม R version 2.2.0

5. เมื่อโปรแกรมทำงานเรียบร้อย ผลการทำนายจะไปอยู่ในโฟลเดอร์ที่ได้กำหนดไว้ข้างต้น โดย ตัวอย่างผลการทำนายแต่ละไฟล์แสดงที่ตำแหน่ง C



รูป ก.5 ตัวอย่างผลการทำนายแต่ละไฟล์

6. เปิด script ชื่อ Code_Connection.R เพื่อกำหนด path ของผลการทำนายที่ต้องการนำมา เปรียบเทียบ โดยตำแหน่ง D ตัวแปร gp คือ path ของผลการทำนายจากโปรแกรม Glimmer และ ตำแหน่ง E ตัวแปร cp คือ path ของผลการทำนายจากโปรแกรม Fickett แล้วเลือก run เฉพาะ บรรทัดที่ได้กำหนดค่าให้ตัวแปร gp และ cp



รูป ก.6 การกำหนดค่าให้ตัวแปร gp และ cp

- 7. เปิด script ชื่อ Code_Compare.R แล้วคลิกเมนู Edit เลือก Run all เพื่อทำการเปรียบเทียบผลการ ทำนายของโปรแกรม Fickett และ Glimmer
- 8. เปิด script ชื่อ Code_ConclusionResult.R เพื่อนำผลการเปรียบเทียบที่ได้จากข้อ 7. ไปสรุปเป็น ตารางแสดงค่า found, under และ over ของผลการทำนายจากโปรแกรม Fickett และ Glimmer ซึ่ง แสดงในภาคผนวก ข และ ตาราง 5.3 เปรียบเทียบจำนวนข้อมูลของผลการทำนาย

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ภาคผนวก ข

ตารางแสดงค่า found, under และ over ของผลการทำนายจากโปรแกรม Fickett และ Glimmer

ตารางแสดงค่า found, under และ over ของผลการทำนายจากโปรแกรม Fickett และ Glimmer โดย อ่านสายลำดับเบสวิธี Normal

Name	Wii	ndows size 2	200	Win	ndows size 3	500
1	found	over	under	found	over	under
Contig106	Fickett fou	nd Glimmer	not found	В	oth not foun	d
Contig110	79.08%	20.73%	0.19%	47.79%	32.41%	19.80%
Contig1101_ABD	Fickett fou	nd Glimmer	not found	В	oth not foun	nd
Contig111	44.36%	55.64%	0.00%	Glimmer f	ound Ficket	t not found
Contig113	В	oth not foun	d	В	oth not foun	ď
Contig114	Fickett fou	nd Glimmei	not found	В	oth not foun	ıd
Contig1143_ABD	56.76%	34.02%	9.22%	46.45%	24.73%	28.82%
Contig115	Fickett fou	nd Glimmer	not found	В	oth not foun	ıd
Contig117	20.73%	54.90%	24.37%	Glimmer f	ound Ficket	t not found
Contig120	72.35%	25.88%	1.77%	52.99%	8.01%	39.00%
Contig121	Fickett fou	nd Glimmer	not found	Fickett fou	and Glimmer	not found
Contig122	34.91%	65.09%	0.00%	72.20%	23.24%	4.56%
Contig126	9.28%	67.65%	23.08%	Glimmer f	ound Ficket	t not found
Contig127	23.19%	71.25%	5.56%	Both fo	und but not	overlap
Contig128	Fickett fou	nd Glimmei	not found	Fickett fou	ınd Glimmei	not found
Contig1297_ABD	73.29%	18.74%	7.97%	64.92%	11.69%	23.40%
Contig130	37.74%	41.17%	21.10%	52.34%	5.51%	42.15%
Contig1303_ABD	70.07%	29.93%	0.00%	80.74%	17.15%	2.11%

Name	Wi	ndows size 2	200	Wi	ndows size 5	500
	found	over	under	found	over	under
Contig132	Fickett fou	and Glimmer	r not found	Fickett for	ınd Glimmeı	not found
Contig133	Fickett fou	and Glimmer	r not found	Both not found		
Contig134	47.11%	52.89%	0.00%	Glimmer f	ound Fickett	not found
Contig137	40.00%	57.85%	2.15%	6.60%	36.88%	56.52%
Contig141	90.86%	9.14%	0.00%	81.64%	0.40%	17.96%
Contig144	Fickett fou	and Glimmer	r not found	Fickett for	ınd Glimmei	not found
Contig145	61.19%	20.90%	17.91%	Glimmer f	ound Fickett	t not found
Contig146	99.34%	0.66%	0.00%	67.97%	1.31%	30.72%
Contig148	Fickett fou	and Glimmer	r not found	В	oth not foun	d
Contig150	45.00%	42.21%	12.79%	59.66%	15.76%	24.58%
Contig151	56.31%	28.41%	15.28%	Both found but not overlap		
Contig152	Both fo	und but not	overlap	Both found but not overlap		
Contig1539_ABD	93.41%	6.59%	0.00%	95.50%	3.62%	0.88%
Contig1545_ABD	Fickett fou	and Glimmer	r not found	Fickett for	ınd Glimmei	not found
Contig156	Fickett fou	and Glimmer	r not found	Fickett found Glimmer not found		
Contig158	92.73%	2.64%	4.63%	51.20%	0.77%	48.03%
Contig159	В	oth not four	nd	Both not found		
Contig161	Fickett fou	and Glimme	r not found	Fickett for	ınd Glimmeı	not found
Contig162	Fickett fou	and Glimme	r not found	В	oth not foun	d
Contig163	70.95%	16.39%	12.66%	71.57%	27.30%	1.12%
Contig1638_ABD	89.66%	4.93%	5.42%	86.08%	0.52%	13.40%
Contig166	Fickett fou	and Glimme	r not found	Fickett for	ınd Glimmeı	not found
Contig1661_ABD	30.57%	69.43%	0.00%	53.50%	46.50%	0.00%
Contig167	69.11%	30.89%	0.00%	86.39%	13.61%	0.00%
Contig169	0.33%	53.58%	46.09%	22.87%	36.92%	40.21%
Contig1714_ABD	Both fo	und but not	overlap	Both found but not overlap		
Contig172	74.49%	25.51%	0.00%	68.85%	20.48%	10.68%

Name	Win	ndows size 2	200	Win	ndows size 5	500
	found	over	under	found	over	under
Contig174	71.08%	5.22%	23.69%	43.62%	0.00%	56.38%
Contig175	Fickett fou	nd Glimme	r not found	Fickett fou	nd Glimmer	not found
Contig176	Glimmer fo	ound Ficket	t not found	Glimmer f	ound Fickett	not found
Contig178	59.52%	40.48%	0.00%	68.14%	27.63%	4.23%
Contig178_ABD	Fickett fou	nd Glimme	r not found	Fickett fou	ınd Glimmei	not found
Contig179	70.69%	29.31%	0.00%	60.57%	16.67%	22.76%
Contig180	49.11%	44.22%	6.67%	Glimmer f	ound Fickett	not found
Contig181	72.24%	11.32%	16.44%	Glimmer f	ound Fickett	not found
Contig183	Fickett found Glimmer not found			Fickett fou	ınd Glimmei	not found
Contig184	Fickett found Glimmer not found			Fickett fou	ınd Glimmei	not found
Contig185	16.90%	83.10%	0.00%	51.64%	48.36%	0.00%
Contig186	26.10%	67.42%	6.47%	11.16%	57.90%	30.94%
Contig187	44.67%	55.33%	0.00%	Glimmer f	ound Ficket	not found
Contig188	89.46%	7.74%	2.80%	68.10%	3.95%	27.96%
Contig190	В	oth not four	nd	Both not found		
Contig192	Both for	und but not	overlap	Glimmer found Fickett not found		
Contig194	39.43%	12.83%	47.74%	7.48%	23.70%	68.81%
Contig195	34.41%	29.90%	35.69%	Glimmer f	ound Ficket	t not found
Contig196	Fickett fou	nd Glimme	r not found	В	oth not foun	d
Contig197	Both for	and but not	overlap	Glimmer f	ound Fickett	not found
Contig198	68.21%	31.79%	0.00%	Glimmer f	ound Fickett	t not found
Contig200	75.82%	0.00%	24.18%	62.82%	7.39%	29.79%
Contig201	95.57%	4.43%	0.00%	74.07%	11.60%	14.33%
Contig203	Both for	and but not	overlap	Glimmer found Fickett not found		
Contig204	71.45%	28.55%	0.00%	76.54%	3.62%	19.84%
Contig206	В	oth not four	nd	Both not found		
Contig207	Fickett fou	nd Glimme	r not found	Fickett fou	ınd Glimmeı	not found

Name	Win	ndows size 2	200	Wi	ndows size 5	500
	found	over	under	found	over	under
Contig209	84.34%	11.89%	3.77%	27.07%	19.48%	53.45%
Contig212	Both fo	und but not	overlap	Glimmer found Fickett not found		
Contig213	Fickett fou	and Glimme	r not found	В	oth not foun	ıd
Contig214	92.43%	7.57%	0.00%	49.38%	40.84%	9.78%
Contig215	92.90%	4.14%	2.96%	66.38%	8.01%	25.61%
Contig216	40.99%	49.10%	9.91%	Glimmer f	ound Fickett	t not found
Contig217	Fickett fou	and Glimmer	r not found	Fickett fou	ınd Glimmeı	not found
Contig218	67.06%	4.30%	28.64%	19.12%	0.00%	80.88%
Contig219	Fickett fou	and Glimmer	r not found	Fickett fou	ınd Glimmeı	not found
Contig220	Fickett found Glimmer not found			Fickett fou	ınd Glimmei	not found
Contig222	Both found but not overlap			Both found but not overlap		
Contig224	Both fo	und but not	overlap	Both fo	und but not	overlap
Contig225	45.70%	32.42%	21.88%	Glimmer f	ound Fickett	t not found
Contig227	49.30%	29.02%	21.68%	50.41%	1.79%	47.80%
Contig228	60.46%	16.07%	23.47%	Glimmer f	ound Fickett	t not found
Contig229	55.22%	32.32%	12.46%	Glimmer f	ound Fickett	t not found
Contig232	71.88%	22.50%	5.63%	92.83%	5.51%	1.65%
Contig233	Both fo	und but not	overlap	Glimmer f	ound Fickett	t not found
Contig234	Fickett fou	and Glimmer	r not found	Fickett fou	ınd Glimmei	not found
Contig235	Fickett fou	and Glimmer	r not found	9 9 B	oth not foun	d 1
Contig239	48.55%	51.45%	0.00%	38.30%	45.17%	16.53%
Contig240	Fickett fou	and Glimmer	r not found	Fickett fou	ınd Glimmeı	not found
Contig241	83.41%	5.61%	10.98%	81.59%	4.56%	13.85%
Contig242	87.86%	5.87%	6.27%	47.35%	3.89%	48.76%
Contig243	53.62%	34.44%	11.94%	Glimmer f	ound Ficket	t not found
Contig244	4.69%	60.85%	34.46%	Glimmer f	ound Ficket	t not found
Contig245	50.22%	48.33%	1.45%	52.10%	26.87%	21.03%

ontig247 76.13% 1.56% 22.30% 63.82% 0.00% 36.18% ontig248 Fickett found Glimmer not found Fickett found Glimmer not found Fickett found Glimmer not found Fickett found Fickett not found ontig249 39.06% 0.00% 60.94% Glimmer found Fickett not found ontig250 Both found but not overlap Both found but not overlap ontig251 Fickett found Glimmer not found Both not found ontig252 48.98% 36.32% 14.70% 41.59% 0.00% 58.41% ontig254 86.91% 13.09% 0.00% 65.95% 26.37% 6.68% ontig255 67.72% 32.28% 0.00% 66.95% 26.37% 6.68% ontig257 Fickett found Glimmer not found Fickett found Glimmer not found Fickett found Glimmer not found ontig258 80.85% 7.14% 12.01% 44.47% 10.48% 45.05% ontig269 28.35% 71.65% 0.00% 42.26% 57.74% 0.00% ontig261 71.73%	Name	Win	ndows size 2	200	Wi	ndows size 5	500	
ontig247 76.13% 1.56% 22.30% 63.82% 0.00% 36.18% ontig248 Fickett found Glimmer not found Fickett found Glimmer not found Fickett found Glimmer not found Fickett found Fickett not found ontig249 39.06% 0.00% 60.94% Glimmer found Fickett not found ontig250 Both found but not overlap Both found but not overlap ontig251 Fickett found Glimmer not found Both not found ontig252 48.98% 36.32% 14.70% 41.59% 0.00% 58.41% ontig254 86.91% 13.09% 0.00% 65.95% 26.37% 6.68% ontig255 67.72% 32.28% 0.00% 66.95% 26.37% 6.68% ontig257 Fickett found Glimmer not found Fickett found Glimmer not found Fickett found Glimmer not found ontig258 80.85% 7.14% 12.01% 44.47% 10.48% 45.05% ontig269 28.35% 71.65% 0.00% 42.26% 57.74% 0.00% ontig261 71.73%		found	over	under	found	over	under	
ontig248 Fickett found Glimmer not found ontig249 39.06% 0.00% 60.94% Glimmer found Fickett not found ontig250 Both found but not overlap Both found but not overlap ontig251 Fickett found Glimmer not found Both not found ontig252 48.98% 36.32% 14.70% 41.59% 0.00% 58.41% ontig254 86.91% 13.09% 0.00% 53.23% 24.72% 22.05% ontig255 67.72% 32.28% 0.00% 66.95% 26.37% 6.68% ontig257 Fickett found Glimmer not found Fickett found Glimmer not found ontig258 80.85% 7.14% 12.01% 44.47% 10.48% 45.05% ontig259 28.35% 71.65% 0.00% 42.26% 57.74% 0.00% ontig261 71.73% 28.27% 0.00% 45.44% 1.86% 52.70% ontig263 36.66% 63.34% 0.00% 43.16% 48.82% 8.02% ontig265 40.66% 59.34% 0.00% 9.91% 58.11% 31.97% ontig266 30.82% 47.95% 21.23% Glimmer found Fickett not found ontig268 64.06% 33.96% 1.98% 41.51% 11.54% 46.95% ontig269 76.93% 8.66% 14.41% 32.32% 1.46% 66.22% ontig270 42.45% 12.80% 44.75% Glimmer found Fickett not found ontig273 61.29% 5.02% 33.69% 32.04% 6.69% 61.27% ontig273 61.29% 5.02% 33.69% 32.04% 6.69% 61.27% ontig273 61.29% 5.02% 33.69% 32.04% 6.69% 61.27% ontig276 78.66% 4.92% 16.42% 59.28% 8.23% 32.49% ontig277 13.72% 59.04% 27.23% Both found but not overlap ontig279 Both found Glimmer not found Fickett fou	Contig246	19.68%	80.32%	0.00%	32.97%	67.03%	0.00%	
ontig249 39.06% 0.00% 60.94% Glimmer found Fickett not found ontig250 Both found but not overlap Both found but not overlap Both found but not overlap ontig251 Fickett found Glimmer not found ontig252 48.98% 36.32% 14.70% 41.59% 0.00% 58.41% ontig254 86.91% 13.09% 0.00% 53.23% 24.72% 22.05% ontig255 67.72% 32.28% 0.00% 66.95% 26.37% 6.68% ontig257 Fickett found Glimmer not found ontig258 80.85% 7.14% 12.01% 44.47% 10.48% 45.05% ontig259 28.35% 71.65% 0.00% 42.26% 57.74% 0.00% ontig261 71.73% 28.27% 0.00% 45.44% 1.86% 52.70% ontig263 36.66% 63.34% 0.00% 43.16% 48.82% 8.02% ontig265 40.66% 59.34% 0.00% 9.91% 58.11% 31.97% ontig266 30.82% 47.95% 21.23% <td>Contig247</td> <td>76.13%</td> <td>1.56%</td> <td>22.30%</td> <td>63.82%</td> <td>0.00%</td> <td>36.18%</td>	Contig247	76.13%	1.56%	22.30%	63.82%	0.00%	36.18%	
ontig250 Both found but not overlap Both found but not overlap ontig251 Fickett found Glimmer not found Both not found ontig252 48.98% 36.32% 14.70% 41.59% 0.00% 58.41% ontig254 86.91% 13.09% 0.00% 53.23% 24.72% 22.05% ontig255 67.72% 32.28% 0.00% 66.95% 26.37% 6.68% ontig257 Fickett found Glimmer not found Fickett found Glimmer not found ontig258 80.85% 7.14% 12.01% 44.47% 10.48% 45.05% ontig258 80.85% 7.14% 12.01% 44.47% 10.48% 45.05% ontig259 28.35% 71.65% 0.00% 42.26% 57.74% 0.00% ontig261 71.73% 28.27% 0.00% 45.44% 1.86% 52.70% ontig263 36.66% 63.34% 0.00% 9.91% 58.11% 31.97% ontig265 40.66% 59.34% 0.00% 9.91% 58.11%	Contig248	Fickett fou	nd Glimme	r not found	Fickett fou	ınd Glimmer	not found	
ontig251 Fickett found Glimmer not found Both not found ontig252 48.98% 36.32% 14.70% 41.59% 0.00% 58.41% ontig254 86.91% 13.09% 0.00% 53.23% 24.72% 22.05% ontig255 67.72% 32.28% 0.00% 66.95% 26.37% 6.68% ontig257 Fickett found Glimmer not found Fickett found Glimmer not found Fickett found Glimmer not found ontig258 80.85% 7.14% 12.01% 44.47% 10.48% 45.05% ontig259 28.35% 71.65% 0.00% 42.26% 57.74% 0.00% ontig261 71.73% 28.27% 0.00% 45.44% 1.86% 52.70% ontig263 36.66% 63.34% 0.00% 43.16% 48.82% 8.02% ontig265 40.66% 59.34% 0.00% 9.91% 58.11% 31.97% ontig266 30.82% 47.95% 21.23% Glimmer found Fickett not found 61.26% 64.06% 33.96%	Contig249	39.06%	0.00%	60.94%	Glimmer f	ound Fickett	not found	
ontig252	Contig250	Both for	und but not	overlap	Both fo	und but not	overlap	
ontig254 86.91% 13.09% 0.00% 53.23% 24.72% 22.05% ontig255 67.72% 32.28% 0.00% 66.95% 26.37% 6.68% ontig257 Fickett found Glimmer not found Fickett found Glimmer not found ontig258 80.85% 7.14% 12.01% 44.47% 10.48% 45.05% ontig259 28.35% 71.65% 0.00% 42.26% 57.74% 0.00% ontig261 71.73% 28.27% 0.00% 45.44% 1.86% 52.70% ontig263 36.66% 63.34% 0.00% 43.16% 48.82% 8.02% ontig265 40.66% 59.34% 0.00% 9.91% 58.11% 31.97% ontig266 30.82% 47.95% 21.23% Glimmer found Fickett not found ontig267 51.08% 44.02% 4.90% Glimmer found Fickett not found ontig268 64.06% 33.96% 1.98% 41.51% 11.54% 46.95% ontig269 76.93% 8.66% 14.41% 32.32% 1.46% 66.22% ontig270 42.45% 12.80% 44.75% Glimmer found Fickett not found ontig273 61.29% 5.02% 33.69% 32.04% 6.69% 61.27% ontig274 94.43% 5.57% 0.00% 72.91% 11.86% 15.24% ontig276 78.66% 4.92% 16.42% 59.28% 8.23% 32.49% ontig279 Both found but not overlap ontig289 Fickett found Glimmer not found	Contig251	Fickett fou	nd Glimme	r not found	В	oth not foun	d	
ontig255 67.72% 32.28% 0.00% 66.95% 26.37% 6.68% ontig257 Fickett found Glimmer not found Fickett found Glimmer not found ontig258 80.85% 7.14% 12.01% 44.47% 10.48% 45.05% ontig259 28.35% 71.65% 0.00% 42.26% 57.74% 0.00% ontig261 71.73% 28.27% 0.00% 45.44% 1.86% 52.70% ontig263 36.66% 63.34% 0.00% 43.16% 48.82% 8.02% ontig265 40.66% 59.34% 0.00% 9.91% 58.11% 31.97% ontig266 30.82% 47.95% 21.23% Glimmer found Fickett not found ontig267 51.08% 44.02% 4.90% Glimmer found Fickett not found ontig268 64.06% 33.96% 1.98% 41.51% 11.54% 46.95% ontig269 76.93% 8.66% 14.41% 32.32% 1.46% 66.22% ontig270 42.45% 12.80% 44.75% Glimmer found Fickett not found ontig273 61.29% 5.02% 33.69% 32.04% 6.69% 61.27% ontig274 94.43% 5.57% 0.00% 72.91% 11.86% 15.24% ontig276 78.66% 4.92% 16.42% 59.28% 8.23% 32.49% ontig277 13.72% 59.04% 27.23% Both found but not overlap ontig279 Both found but not overlap Fickett found Glimmer not found Ficket	Contig252	48.98%	36.32%	14.70%	41.59%	0.00%	58.41%	
ontig257 Fickett found Glimmer not found Fickett found Glimmer not found ontig258 80.85% 7.14% 12.01% 44.47% 10.48% 45.05% ontig259 28.35% 71.65% 0.00% 42.26% 57.74% 0.00% ontig261 71.73% 28.27% 0.00% 45.44% 1.86% 52.70% ontig263 36.66% 63.34% 0.00% 43.16% 48.82% 8.02% ontig265 40.66% 59.34% 0.00% 9.91% 58.11% 31.97% ontig266 30.82% 47.95% 21.23% Glimmer found Fickett not found ontig267 51.08% 44.02% 4.90% Glimmer found Fickett not found ontig268 64.06% 33.96% 1.98% 41.51% 11.54% 46.95% ontig270 42.45% 12.80% 44.75% Glimmer found Fickett not found ontig274 94.43% 5.57% 0.00% 72.91% 11.86% 15.24% ontig276 78.66% 4.92% <td< td=""><td>Contig254</td><td>86.91%</td><td>13.09%</td><td>0.00%</td><td>53.23%</td><td>24.72%</td><td>22.05%</td></td<>	Contig254	86.91%	13.09%	0.00%	53.23%	24.72%	22.05%	
ontig258 80.85% 7.14% 12.01% 44.47% 10.48% 45.05% ontig259 28.35% 71.65% 0.00% 42.26% 57.74% 0.00% ontig261 71.73% 28.27% 0.00% 45.44% 1.86% 52.70% ontig263 36.66% 63.34% 0.00% 43.16% 48.82% 8.02% ontig265 40.66% 59.34% 0.00% 9.91% 58.11% 31.97% ontig266 30.82% 47.95% 21.23% Glimmer found Fickett not found ontig267 51.08% 44.02% 4.90% Glimmer found Fickett not found ontig268 64.06% 33.96% 1.98% 41.51% 11.54% 46.95% ontig269 76.93% 8.66% 14.41% 32.32% 1.46% 66.22% ontig270 42.45% 12.80% 44.75% Glimmer found Fickett not found ontig273 61.29% 5.02% 33.69% 32.04% 6.69% 61.27% ontig274 94.43% 5.57% 0.00% 72.91% 11.86% 15.24% ontig276 78.66% 4.92% 16.42% 59.28% 8.23% 32.49% ontig277 13.72% 59.04% 27.23% Both found but not overlap ontig279 Both found but not overlap Fickett found Glimmer not found	Contig255	67.72%	32.28%	0.00%	66.95%	26.37%	6.68%	
ontig259 28.35% 71.65% 0.00% 42.26% 57.74% 0.00% ontig261 71.73% 28.27% 0.00% 45.44% 1.86% 52.70% ontig263 36.66% 63.34% 0.00% 43.16% 48.82% 8.02% ontig265 40.66% 59.34% 0.00% 9.91% 58.11% 31.97% ontig266 30.82% 47.95% 21.23% Glimmer found Fickett not found ontig267 51.08% 44.02% 4.90% Glimmer found Fickett not found ontig268 64.06% 33.96% 1.98% 41.51% 11.54% 46.95% ontig269 76.93% 8.66% 14.41% 32.32% 1.46% 66.22% ontig270 42.45% 12.80% 44.75% Glimmer found Fickett not found ontig273 61.29% 5.02% 33.69% 32.04% 6.69% 61.27% ontig274 94.43% 5.57% 0.00% 72.91% 11.86% 15.24% ontig276 78.66% 4.92% 16.42% 59.28% 8.23% 32.49% ontig277 13.72% 59.04% 27.23% Both found but not overlap ontig280 Fickett found Glimmer not found	Contig257	Fickett found Glimmer not found			Fickett found Glimmer not found			
ontig261 71.73% 28.27% 0.00% 45.44% 1.86% 52.70% ontig263 36.66% 63.34% 0.00% 43.16% 48.82% 8.02% ontig265 40.66% 59.34% 0.00% 9.91% 58.11% 31.97% ontig266 30.82% 47.95% 21.23% Glimmer found Fickett not found ontig267 51.08% 44.02% 4.90% Glimmer found Fickett not found ontig268 64.06% 33.96% 1.98% 41.51% 11.54% 46.95% ontig269 76.93% 8.66% 14.41% 32.32% 1.46% 66.22% ontig270 42.45% 12.80% 44.75% Glimmer found Fickett not found ontig273 61.29% 5.02% 33.69% 32.04% 6.69% 61.27% ontig274 94.43% 5.57% 0.00% 72.91% 11.86% 15.24% ontig276 78.66% 4.92% 16.42% 59.28% 8.23% 32.49% ontig277 13.72% 59.04% 27.23% Both found but not overlap ontig280 Fickett found Glimmer not found Fickett found Glimmer not found	Contig258	80.85%	7.14%	12.01%	44.47%	10.48%	45.05%	
ontig263 36.66% 63.34% 0.00% 43.16% 48.82% 8.02% ontig265 40.66% 59.34% 0.00% 9.91% 58.11% 31.97% ontig266 30.82% 47.95% 21.23% Glimmer found Fickett not found ontig267 51.08% 44.02% 4.90% Glimmer found Fickett not found ontig268 64.06% 33.96% 1.98% 41.51% 11.54% 46.95% ontig269 76.93% 8.66% 14.41% 32.32% 1.46% 66.22% ontig270 42.45% 12.80% 44.75% Glimmer found Fickett not found ontig273 61.29% 5.02% 33.69% 32.04% 6.69% 61.27% ontig274 94.43% 5.57% 0.00% 72.91% 11.86% 15.24% ontig276 78.66% 4.92% 16.42% 59.28% 8.23% 32.49% ontig277 13.72% 59.04% 27.23% Both found but not overlap ontig279 Both found but not overlap Both found Glimmer not found Fickett found Glimmer not found	Contig259	28.35%	71.65%	0.00%	42.26%	57.74%	0.00%	
ontig265	Contig261	71.73%	28.27%	0.00%	45.44%	1.86%	52.70%	
ontig266 30.82% 47.95% 21.23% Glimmer found Fickett not found ontig267 51.08% 44.02% 4.90% Glimmer found Fickett not found ontig268 64.06% 33.96% 1.98% 41.51% 11.54% 46.95% ontig269 76.93% 8.66% 14.41% 32.32% 1.46% 66.22% ontig270 42.45% 12.80% 44.75% Glimmer found Fickett not found ontig273 61.29% 5.02% 33.69% 32.04% 6.69% 61.27% ontig274 94.43% 5.57% 0.00% 72.91% 11.86% 15.24% ontig276 78.66% 4.92% 16.42% 59.28% 8.23% 32.49% ontig277 13.72% 59.04% 27.23% Both found but not overlap ontig279 Both found Glimmer not found Fickett found Glimmer not found ontig280 Fickett found Glimmer not found Fickett found Glimmer not found	Contig263	36.66%	63.34%	0.00%	43.16%	48.82%	8.02%	
ontig267 51.08% 44.02% 4.90% Glimmer found Fickett not found ontig268 64.06% 33.96% 1.98% 41.51% 11.54% 46.95% ontig269 76.93% 8.66% 14.41% 32.32% 1.46% 66.22% ontig270 42.45% 12.80% 44.75% Glimmer found Fickett not found ontig273 61.29% 5.02% 33.69% 32.04% 6.69% 61.27% ontig274 94.43% 5.57% 0.00% 72.91% 11.86% 15.24% ontig276 78.66% 4.92% 16.42% 59.28% 8.23% 32.49% ontig277 13.72% 59.04% 27.23% Both found but not overlap ontig279 Both found but not overlap Fickett found Glimmer not found Fickett found Glimmer not found	Contig265	40.66%	59.34%	0.00%	9.91%	58.11%	31.97%	
ontig268 64.06% 33.96% 1.98% 41.51% 11.54% 46.95% ontig269 76.93% 8.66% 14.41% 32.32% 1.46% 66.22% ontig270 42.45% 12.80% 44.75% Glimmer found Fickett not found ontig273 61.29% 5.02% 33.69% 32.04% 6.69% 61.27% ontig274 94.43% 5.57% 0.00% 72.91% 11.86% 15.24% ontig276 78.66% 4.92% 16.42% 59.28% 8.23% 32.49% ontig277 13.72% 59.04% 27.23% Both found but not overlap ontig279 Both found but not overlap Both found but not overlap Fickett found Glimmer not found Fickett found Glimmer not found	Contig266	30.82%	47.95%	21.23%	Glimmer f	ound Fickett	not found	
ontig269 76.93% 8.66% 14.41% 32.32% 1.46% 66.22% ontig270 42.45% 12.80% 44.75% Glimmer found Fickett not found ontig273 61.29% 5.02% 33.69% 32.04% 6.69% 61.27% ontig274 94.43% 5.57% 0.00% 72.91% 11.86% 15.24% ontig276 78.66% 4.92% 16.42% 59.28% 8.23% 32.49% ontig277 13.72% 59.04% 27.23% Both found but not overlap ontig279 Both found but not overlap Fickett found Glimmer not found Fickett found Glimmer not found	Contig267	51.08%	44.02%	4.90%	Glimmer f	ound Fickett	not found	
ontig270 42.45% 12.80% 44.75% Glimmer found Fickett not found ontig273 61.29% 5.02% 33.69% 32.04% 6.69% 61.27% ontig274 94.43% 5.57% 0.00% 72.91% 11.86% 15.24% ontig276 78.66% 4.92% 16.42% 59.28% 8.23% 32.49% ontig277 13.72% 59.04% 27.23% Both found but not overlap ontig279 Both found but not overlap Both found Glimmer not found Fickett found Glimmer not found	Contig268	64.06%	33.96%	1.98%	41.51%	11.54%	46.95%	
ontig273 61.29% 5.02% 33.69% 32.04% 6.69% 61.27% ontig274 94.43% 5.57% 0.00% 72.91% 11.86% 15.24% ontig276 78.66% 4.92% 16.42% 59.28% 8.23% 32.49% ontig277 13.72% 59.04% 27.23% Both found but not overlap ontig279 Both found but not overlap Both found but not overlap Fickett found Glimmer not found Fickett found Glimmer not found	Contig269	76.93%	8.66%	14.41%	32.32%	1.46%	66.22%	
ontig274 94.43% 5.57% 0.00% 72.91% 11.86% 15.24% ontig276 78.66% 4.92% 16.42% 59.28% 8.23% 32.49% ontig277 13.72% 59.04% 27.23% Both found but not overlap ontig279 Both found but not overlap Both found but not overlap ontig280 Fickett found Glimmer not found Fickett found Glimmer not found	Contig270	42.45%	12.80%	44.75%	Glimmer f	ound Fickett	not found	
ontig276 78.66% 4.92% 16.42% 59.28% 8.23% 32.49% ontig277 13.72% 59.04% 27.23% Both found but not overlap ontig279 Both found but not overlap ontig280 Fickett found Glimmer not found Fickett found Glimmer not found	Contig273	61.29%	5.02%	33.69%	32.04%	6.69%	61.27%	
ontig277 13.72% 59.04% 27.23% Both found but not overlap ontig279 Both found but not overlap ontig280 Fickett found Glimmer not found Fickett found Glimmer not found	Contig274	94.43%	5.57%	0.00%	72.91%	11.86%	15.24%	
ontig279 Both found but not overlap Both found but not overlap ontig280 Fickett found Glimmer not found Fickett found Glimmer not found	Contig276	78.66%	4.92%	16.42%	59.28%	8.23%	32.49%	
ontig280 Fickett found Glimmer not found Fickett found Glimmer not found	Contig277	13.72%	59.04%	27.23%	Both fo	und but not	overlap	
	Contig279	Both for	und but not	overlap	Both found but not overlap			
ontig281 53.82% 39.24% 6.94% 24.89% 19.95% 55.17%	Contig280	Fickett fou	nd Glimme	r not found	Fickett found Glimmer not found			
	Contig281	53.82%	39.24%	6.94%	24.89%	19.95%	55.17%	

Name	Wir	ndows size 2	200	Wir	ndows size 5	500
	found	over	under	found	over	under
Contig282	26.60%	73.40%	0.00%	Both for	und but not	overlap
Contig284	51.74%	48.26%	0.00%	54.13%	19.12%	26.75%
Contig285	1.45%	83.82%	14.73%	3.55%	60.43%	36.02%
Contig286	80.65%	0.00%	19.35%	57.07%	0.00%	42.93%
Contig287	70.52%	26.18%	3.30%	82.96%	11.38%	5.66%
Contig288	88.40%	11.60%	0.00%	84.84%	0.00%	15.16%
Contig289	45.16%	54.84%	0.00%	14.89%	80.14%	4.96%
Contig291	76.03%	2.93%	21.05%	58.11%	0.00%	41.89%
Contig292	Both for	und but not	overlap	Both for	und but not	overlap
Contig293	Fickett four	nd Glimmer	r not found	Fickett four	nd Glimmer	not found
Contig294	Fickett fou	nd Glimme	r not found	В	oth not foun	d
Contig295	65.85%	4.88%	29.27%	Both for	und but not	overlap
Contig296	50.48%	8.19%	41.34%	15.01%	8.19%	76.81%
Contig297	45.66%	27.31%	27.02%	44.46%	7.20%	48.34%
Contig298	Fickett fou	nd Glimme	r not found	В	oth not foun	d
Contig299	Fickett four	nd Glimme	r not found	Both not found		
Contig300	86.49%	9.47%	4.05%	79.79%	1.28%	18.93%
Contig301	Fickett four	nd Glimme	r not found	Fickett fou	nd Glimmer	not found
Contig303	27.50%	72.50%	0.00%	Both for	und but not	overlap
Contig304	78.40%	6.52%	15.08%	52.28%	3.80%	43.92%
Contig305	39.35%	23.72%	36.93%	Glimmer fo	ound Fickett	not found
Contig305_ABD	78.94%	14.16%	6.90%	65.42%	10.15%	24.43%
Contig306	7.56%	50.58%	41.86%	Glimmer fo	ound Fickett	not found
Contig307	86.89%	3.58%	9.53%	58.09%	1.94%	39.97%
Contig308	79.42%	17.41%	3.17%	72.27%	4.75%	22.98%
Contig309	10.91%	48.08%	41.00%	Both for	und but not	overlap
Contig310	89.34%	3.61%	7.05%	77.21%	4.86%	17.93%

Name	Wir	ndows size 2	200	Wii	ndows size 5	500
	found	over	under	found	over	under
Contig311	Fickett four	nd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig313	57.54%	37.54%	4.92%	60.33%	0.23%	39.44%
Contig314	10.00%	90.00%	0.00%	Both for	und but not	overlap
Contig315	63.87%	35.69%	0.44%	72.69%	12.51%	14.80%
Contig316	Fickett four	nd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig317	Fickett four	nd Glimmer	not found	В	oth not foun	d
Contig318	47.11%	52.89%	0.00%	Glimmer fo	ound Fickett	not found
Contig319	90.98%	9.02%	0.00%	60.07%	31.15%	8.78%
Contig320	33.77%	49.97%	16.26%	27.12%	61.23%	11.64%
Contig321	20.76%	72.59%	6.65%	Both found but not overlap		overlap
Contig322	62.25%	32.51%	5.24%	56.54%	6.43%	37.03%
Contig325	Both for	and but not	overlap	Glimmer fo	ound Fickett	not found
Contig326	53.93%	41.94%	4.13%	Glimmer found Fickett not found		not found
Contig327	35.86%	14.48%	49.66%	Glimmer fo	ound Fickett	not found
Contig328	49.54%	49.12%	1.34%	60.88%	39.12%	0.00%
Contig329	71.47%	22.20%	6.33%	65.26%	11.97%	22.78%
Contig330	84.92%	9.81%	5.27%	50.13%	5.57%	44.30%
Contig331	91.90%	7.79%	0.31%	Both for	und but not	overlap
Contig332	76.15%	15.74%	8.11%	47.15%	32.96%	19.89%
Contig333	58.91%	39.79%	1.30%	68.06%	7.24%	24.70%
Contig334	Fickett four	nd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig335	66.43%	18.65%	14.92%	46.10%	23.81%	30.09%
Contig336	61.81%	27.20%	10.98%	22.71%	27.20%	50.08%
Contig337	56.43%	43.57%	0.00%	44.60%	55.40%	0.00%
Contig338	В	oth not foun	d	Both not found		
Contig339	28.70%	71.30%	0.00%	Glimmer found Fickett not found		
Contig340	Fickett four	nd Glimmer	not found	Fickett found Glimmer not found		

Name	Wii	ndows size 2	200	Win	ndows size 5	500
	found	over	under	found	over	under
Contig341	97.14%	2.86%	0.00%	Glimmer f	ound Fickett	t not found
Contig342	48.40%	45.91%	5.69%	62.71%	1.04%	36.25%
Contig343	Fickett fou	nd Glimmer	r not found	Fickett fou	and Glimmer	not found
Contig344	29.55%	70.45%	0.00%	37.25%	49.02%	13.73%
Contig345	Fickett fou	nd Glimme	r not found	В	oth not foun	d
Contig346	88.80%	11.13%	0.07%	69.85%	2.56%	27.58%
Contig347	Fickett fou	nd Glimmer	r not found	Fickett fou	nd Glimmer	not found
Contig348	Both fo	und but not	overlap	Glimmer f	ound Fickett	t not found
Contig349	Fickett fou	Fickett found Glimmer not found			nd Glimmer	not found
Contig350	67.98%	21.22%	10.80%	25.29%	34.84%	39.87%
Contig351	Fickett found Glimmer not found			Fickett found Glimmer not found		
Contig352	57.50%	42.50%	0.00%	78.01%	14.71%	7.29%
Contig353	43.52%	56.48%	0.00%	5.05%	86.14%	8.81%
Contig354	24.40%	74.51%	1.10%	26.36%	73.64%	0.00%
Contig355	60.75%	0.00%	39.25%	Glimmer f	ound Fickett	t not found
Contig356	89.90%	7.79%	2.31%	79.17%	7.69%	13.14%
Contig357	Fickett fou	nd Glimmer	r not found	Both not found		
Contig358	58.61%	28.45%	12.94%	22.98%	29.69%	47.33%
Contig359	56.04%	0.00%	43.96%	15.19%	1.50%	83.31%
Contig360	90.18%	9.82%	0.00%	78.04%	9.98%	11.98%
Contig361	46.91%	28.24%	24.85%	35.95%	0.00%	64.05%
Contig363	Fickett fou	nd Glimmer	r not found	Fickett fou	ınd Glimmer	not found
Contig364	68.39%	26.25%	5.36%	60.87%	22.13%	17.00%
Contig365	0.28%	84.78%	14.93%	6.99%	78.76%	14.25%
Contig367	34.20%	48.45%	17.35%	2.51%	58.99%	38.49%
Contig368	28.00%	71.80%	0.20%	17.04%	68.13%	14.83%
Contig369	6.21%	50.28%	43.50%	10.72%	63.91%	25.37%

Name	Wir	ndows size 2	200	Wii	ndows size 5	500
	found	over	under	found	over	under
Contig370	Fickett four	nd Glimmer	not found	В	oth not foun	d
Contig371	Fickett four	nd Glimmei	r not found	Fickett found Glimmer not found		
Contig372	84.49%	15.51%	0.00%	45.96%	3.80%	50.24%
Contig373	34.51%	65.49%	0.00%	77.58%	22.42%	0.00%
Contig374	79.65%	8.85%	11.50%	Glimmer fo	ound Fickett	t not found
Contig375	90.82%	2.34%	6.83%	83.78%	1.73%	14.49%
Contig376	8.15%	91.85%	0.00%	Both for	und but not	overlap
Contig377	56.44%	43.56%	0.00%	50.65%	0.00%	49.35%
Contig378	64.50%	19.90%	15.60%	50.47%	3.53%	46.00%
Contig379	80.80%	19.20%	0.00%	61.57%	16.56%	21.87%
Contig380	28.27%	24.08%	47.64%	Both found but not overlap		
Contig381	Fickett four	nd Glimmei	r not found	В	oth not foun	d
Contig382	81.74%	0.00%	18.26%	65.00%	17.86%	17.14%
Contig383	Fickett fou	nd Glimmei	r not found	Fickett fou	nd Glimmei	not found
Contig384	26.28%	64.35%	9.37%	49.54%	45.37%	5.09%
Contig385	81.02%	6.58%	12.41%	74.18%	2.82%	23.00%
Contig386	Fickett fou	nd Glimmer	r not found	Both not found		
Contig387	96.11%	1.25%	2.64%	52.40%	1.88%	45.72%
Contig388	Fickett four	nd Glimmer	r not found	Fickett fou	nd Glimmer	not found
Contig389	Fickett fou	nd Glimmer	r not found	Fickett fou	nd Glimmer	not found
Contig390	45.53%	48.24%	6.23%	49.41%	42.16%	8.43%
Contig391	76.21%	23.79%	0.00%	Both for	und but not	overlap
Contig392	63.01%	20.05%	16.94%	62.10%	0.00%	37.90%
Contig393	26.69%	61.86%	11.45%	59.29%	40.71%	0.00%
Contig394	27.16%	72.84%	0.00%	31.55%	64.69%	3.76%
Contig395	78.09%	10.65%	11.26%	45.92%	6.01%	48.07%
Contig396	71.41%	27.23%	1.36%	92.01%	1.43%	6.56%

Name	Win	ndows size 2	00	Win	ndows size 5	500
	found	over	under	found	over	under
Contig398	59.78%	12.16%	28.06%	32.76%	0.00%	67.24%
Contig399	77.23%	22.77%	0.00%	82.21%	4.43%	13.36%
Contig400	54.01%	44.91%	1.08%	25.84%	32.99%	41.17%
Contig401	77.01%	21.80%	1.18%	31.64%	42.82%	25.54%
Contig402	81.86%	17.84%	0.30%	87.71%	7.36%	4.93%
Contig403	86.07%	13.93%	0.00%	73.99%	10.01%	16.00%
Contig404	83.48%	14.10%	2.42%	84.45%	2.09%	13.46%
Contig405	26.53%	73.47%	0.00%	35.63%	55.92%	8.45%
Contig406	67.21%	19.11%	13.67%	59.46%	20.10%	20.44%
Contig407	68.39%	28.58%	3.02%	74.92%	21.01%	4.07%
Contig408	55.52%	31.35%	13.13%	45.16%	31.76%	23.08%
Contig409	83.94%	13.47%	2.59%	76.31%	8.84%	14.85%
Contig410	67.91%	28.68%	3.41%	52.98%	43.58%	3.44%
Contig411	Fickett fou	nd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig412	Both for	and but not	overlap	Both for	and but not	overlap
Contig413	94.17%	5.83%	0.00%	92.38%	5.28%	2.35%
Contig414	58.30%	40.33%	1.38%	56.39%	41.45%	2.16%
Contig415	72.46%	27.31%	0.23%	65.22%	24.25%	10.53%
Contig416	26.12%	73.88%	0.00%	Both for	and but not	overlap
Contig417	76.05%	15.41%	8.53%	47.12%	17.82%	35.06%
Contig418	80.24%	9.25%	10.51%	69.15%	16.39%	14.46%
Contig419	95.43%	1.71%	2.86%	67.50%	2.43%	30.07%
Contig420	Both for	and but not	overlap	Glimmer fo	ound Fickett	not found
Contig421	69.39%	11.57%	19.04%	55.95%	11.95%	32.10%
Contig422	85.92%	9.56%	4.52%	77.29%	5.21%	17.51%
Contig423	86.85%	3.42%	9.73%	71.55%	1.56%	26.89%
Contig424	80.54%	18.58%	0.88%	74.04%	4.13%	21.84%

Name	Wir	ndows size 2	200	Wir	ndows size 5	500	
	found	over	under	found	over	under	
Contig425	90.38%	9.62%	0.00%	43.45%	12.91%	43.64%	
Contig426	Fickett fou	nd Glimmer	not found	Fickett four	nd Glimmer	not found	
Contig427	56.53%	43.47%	0.00%	55.11%	11.99%	32.90%	
Contig428	Fickett fou	Fickett found Glimmer not found			nd Glimmer	not found	
Contig429	58.75%	24.29%	16.96%	52.87%	7.59%	39.54%	
Contig430	90.40%	2.90%	6.69%	71.86%	3.92%	24.22%	
Contig431	35.26%	64.74%	0.00%	50.93%	49.07%	0.00%	
Contig432	74.36%	14.32%	11.33%	66.49%	3.55%	29.97%	
Contig433	93.26%	3.80%	2.94%	76.57%	1.17%	22.26%	
Contig434	81.22%	14.86%	3.92%	75.80%	10.18%	14.02%	
Contig435	Fickett four	Fickett found Glimmer not found			Fickett found Glimmer not found		
Contig436	Fickett four	nd Glimmer	not found	Fickett found Glimmer not found			
Contig437	23.68%	69.75%	6.56%	55.28%	26.02%	18.70%	
Contig438	91.11%	7.65%	1.23%	82.51%	2.35%	15.14%	
Contig439	63.91%	21.76%	14.33%	30.03%	4.79%	65.18%	
Contig440	97.72%	2.28%	0.00%	86.73%	4.34%	8.94%	
Contig441	67.66%	11.83%	20.50%	61.76%	2.08%	36.16%	
Contig442	69.49%	17.25%	13.26%	73.00%	7.64%	19.36%	
Contig443	27.81%	52.41%	19.79%	40.05%	37.62%	22.33%	
Contig444	Be	oth not foun	d 919	Bo Bo	oth not foun	d	
Contig446	81.24%	14.53%	4.22%	62.82%	3.88%	33.31%	
Contig447	63.66%	32.91%	3.43%	89.01%	0.00%	10.99%	
Contig448	19.18%	73.14%	7.68%	85.90%	0.78%	13.32%	
Contig449	76.41%	13.10%	10.48%	59.30%	1.78%	38.92%	
Contig450	58.98%	38.78%	2.24%	54.42%	30.69%	14.89%	
Contig451	52.98%	45.02%	2.01%	34.52%	34.01%	31.47%	
Contig452	61.57%	34.36%	4.07%	73.30%	5.85%	20.85%	

Name	Wir	ndows size 2	200	Wii	ndows size 5	500
	found	over	under	found	over	under
Contig453	93.13%	3.14%	3.73%	89.07%	2.03%	8.91%
Contig454	87.92%	10.10%	1.98%	74.61%	5.52%	19.88%
Contig456	Fickett fou	nd Glimme	r not found	Fickett fou	nd Glimmer	not found
Contig457	81.02%	15.66%	3.32%	69.57%	8.20%	22.22%
Contig458	50.34%	38.44%	11.22%	28.53%	0.00%	71.47%
Contig459	Fickett four	nd Glimmer	r not found	Fickett fou	nd Glimmer	not found
Contig460	83.84%	2.78%	13.38%	49.01%	14.47%	36.52%
Contig461	53.52%	37.97%	8.50%	56.48%	43.52%	0.00%
Contig462	87.68%	11.61%	0.71%	36.92%	20.88%	42.20%
Contig463	78.07%	3.02%	18.91%	55.19%	6.82%	37.99%
Contig464	Both found but not overlap			Both found but not overlap		
Contig465	14.92%	61.20%	23.87%	Both found but not overlap		overlap
Contig466	83.97%	3.41%	12.61%	77.77%	2.54%	19.69%
Contig467	Fickett four	nd Glimme	r not found	Fickett found Glimmer not found		
Contig468	59.95%	2.28%	37.77%	46.64%	0.00%	53.36%
Contig469	75.90%	18.71%	5.40%	61.46%	13.47%	25.07%
Contig470	51.03%	39.34%	9.63%	70.61%	2.12%	27.27%
Contig471	42.28%	55.89%	1.83%	23.26%	34.39%	42.34%
Contig471_ABD	50.70%	49.30%	0.00%	Glimmer fo	ound Fickett	not found
Contig472	Both for	und but not	overlap	Both for	und but not	overlap
Contig473	Both for	und but not	overlap	Glimmer fo	ound Fickett	not found
Contig474	87.60%	9.44%	2.96%	63.74%	12.30%	23.96%
Contig475	92.01%	4.42%	3.57%	81.06%	5.06%	13.88%
Contig476	74.60%	16.26%	9.13%	67.53%	0.00%	32.47%
Contig477	58.55%	39.12%	2.33%	56.21%	22.43%	21.35%
Contig478	65.12%	28.01%	6.87%	55.35%	22.76%	21.89%
Contig479	46.95%	51.82%	1.23%	62.83%	9.97%	27.20%

Name	Wir	ndows size 2	200	Win	ndows size 5	500
	found	over	under	found	over	under
Contig480	11.79%	82.26%	5.95%	23.00%	50.33%	26.67%
Contig481	67.88%	19.07%	13.05%	53.54%	20.91%	25.55%
Contig482	88.98%	10.05%	0.97%	70.48%	4.51%	25.01%
Contig483	89.00%	3.50%	7.49%	65.70%	6.78%	27.52%
Contig484	71.37%	25.10%	3.53%	57.88%	17.35%	24.77%
Contig485	Fickett fou	nd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig486	76.92%	20.38%	2.70%	56.84%	11.81%	31.36%
Contig487	73.57%	24.58%	1.85%	55.34%	18.39%	26.27%
Contig488	59.11%	40.64%	0.25%	44.10%	24.84%	31.06%
Contig489	59.70%	2.96%	37.34%	41.26%	0.00%	58.74%
Contig490	80.93%	11.68%	7.39%	70.31%	6.64%	23.05%
Contig491	60.19%	29.23%	10.58%	60.09%	17.55%	22.36%
Contig492	75.03%	11.65%	13.32%	67.94%	10.92%	21.15%
Contig493	82.11%	17.89%	0.00%	62.18%	12.03%	25.79%
Contig494	78.58%	9.86%	11.56%	65.92%	8.42%	25.66%
Contig495	55.29%	36.22%	8.49%	55.92%	24.66%	19.42%
Contig496	84.87%	4.95%	10.18%	54.41%	4.72%	40.87%
Contig497	39.84%	55.92%	4.25%	24.58%	50.33%	25.08%
Contig498	Fickett four	nd Glimmer	not found	В	oth not foun	d
Contig499	79.86%	20.14%	0.00%	14.28%	66.90%	18.83%
Contig500	46.11%	44.49%	9.40%	67.07%	20.13%	12.80%
Contig501	17.01%	82.99%	0.00%	23.28%	67.74%	8.97%
Contig502	81.16%	11.81%	7.03%	64.56%	13.96%	21.48%
Contig503	Fickett fou	nd Glimmer	not found	В	oth not foun	d
Contig504	77.22%	12.28%	10.49%	81.68%	8.76%	9.56%
Contig505	52.01%	37.85%	10.14%	43.49%	17.54%	38.97%
Contig506	75.29%	10.91%	13.80%	82.37%	0.00%	17.63%

Name	Wir	ndows size 2	00	Wir	ndows size 5	500
	found	over	under	found	over	under
Contig507	56.73%	26.06%	17.21%	70.79%	0.00%	29.21%
Contig508	78.85%	18.98%	2.17%	62.80%	16.65%	20.55%
Contig509	70.29%	22.47%	7.25%	59.84%	3.81%	36.35%
Contig510	69.41%	24.73%	5.85%	62.65%	3.08%	34.28%
Contig511	77.41%	11.41%	11.18%	66.11%	4.04%	29.85%
Contig512	70.25%	29.13%	0.62%	56.44%	30.77%	12.79%
Contig513	45.21%	34.82%	19.97%	81.85%	3.22%	14.94%
Contig514	92.03%	4.53%	3.44%	77.00%	7.70%	15.30%
Contig515	Fickett four	nd Glimmer	not found	Fickett four	nd Glimmer	not found
Contig516	71.89%	0.55%	27.56%	67.21%	2.10%	30.69%
Contig517	51.87%	39.70%	8.43%	58.84%	8.17%	32.99%
Contig518	70.38%	26.95%	2.67%	64.86%	17.97%	17.17%
Contig520	69.12%	19.84%	11.04%	46.77%	35.56%	17.66%
Contig521	87.30%	8.87%	3.82%	69.01%	4.26%	26.73%
Contig522	43.23%	12.55%	44.22%	Glimmer fo	ound Fickett	not found
Contig523	77.62%	16.99%	5.39%	46.50%	23.99%	29.51%
Contig524	Both for	and but not	overlap	0.59%	85.68%	13.73%
Contig525	81.01%	17.03%	1.96%	63.26%	12.96%	23.78%
Contig526	60.92%	11.06%	28.02%	52.99%	4.29%	42.72%
Contig527	73.12%	24.91%	1.97%	84.17%	0.00%	15.83%
Contig528	37.05%	59.82%	3.13%	74.29%	17.51%	8.20%
Contig529	77.42%	16.16%	6.42%	92.02%	3.34%	4.64%
Contig530	79.39%	14.27%	6.34%	79.49%	3.83%	16.67%
Contig531	58.10%	32.89%	9.01%	56.12%	23.26%	20.62%
Contig532	82.84%	7.28%	9.88%	76.35%	11.22%	12.43%
Contig533	80.32%	16.29%	3.40%	63.49%	6.46%	30.05%
Contig534	54.86%	36.78%	8.36%	25.75%	43.31%	30.94%

Name	Wir	ndows size 2	00	Wir	ndows size 5	500
	found	over	under	found	over	under
Contig535	55.10%	37.49%	7.41%	56.06%	17.67%	26.27%
Contig536	59.23%	32.34%	8.43%	38.07%	15.88%	46.05%
Contig537	58.22%	35.48%	6.30%	58.59%	7.56%	33.86%
Contig538	60.50%	25.49%	14.01%	63.35%	14.87%	21.78%
Contig539	58.09%	16.82%	25.09%	54.14%	0.38%	45.48%
Contig540	67.35%	28.74%	3.91%	72.92%	9.58%	17.49%
Contig541	61.33%	18.45%	20.21%	71.46%	6.59%	21.95%
Contig542	75.97%	13.44%	10.59%	70.02%	8.99%	20.99%
Contig543	60.03%	10.69%	29.28%	64.96%	4.31%	30.73%
Contig544	41.64%	57.22%	1.14%	37.94%	48.53%	13.53%
Contig545	66.75%	21.39%	11.86%	48.12%	20.86%	31.02%
Contig546	Fickett four	nd Glimmer	not found	Fickett four	nd Glimmer	not found
Contig547	88.54%	4.06%	7.39%	62.99%	3.03%	33.98%
Contig548	62.27%	26.31%	11.42%	60.46%	0.00%	39.54%
Contig549	87.29%	2.06%	10.65%	61.97%	2.21%	35.82%
Contig550	62.75%	27.48%	9.78%	73.47%	11.86%	14.68%
Average	62.59%	27.99%	9.41%	60.74%	16.06%	23.19%

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ตารางแสดงค่า found, under และ over ของผลการทำนายจากโปรแกรม Fickett และ Glimmer โดย อ่านสายลำดับเบสวิธี Complement

Name	Wi	ndows size 2	200	Wi	ndows size 5	500	
	found	over	under	found	over	under	
Contig106	Both fo	und but not	overlap	Glimmer f	ound Fickett	not found	
Contig110	Fickett for	and Glimme	r not found	Fickett for	and Glimme	r not found	
Contig1101_ABD	64.30%	16.63%	19.07%	Glimmer f	ound Fickett	not found	
Contig111	Fickett for	and Glimme	r not found	Both not found			
Contig113	Glimmer	found Ficket	t not found	Glimmer found Fickett not found			
Contig114	32.37%	0.00%	67.63%	Glimmer f	ound Fickett	not found	
Contig1143_ABD	34.68%	54.09%	11.23%	29.23%	46.00%	24.77%	
Contig115	49.54%	0.00%	50.46%	Glimmer found Fickett not found			
Contig117	Fickett for	and Glimme	r not found	Both not found			
Contig120	Fickett for	and Glimme	r not found	Fickett found Glimmer not four			
Contig121	89.71%	10.29%	0.00%	71.82%	28.18%	0.00%	
Contig122	Fickett for	und Glimme	r not found	Fickett found Glimmer not found			
Contig126	Fickett for	and Glimme	r not found	Both not found			
Contig127	Fickett for	and Glimme	r not found	Fickett for	and Glimme	r not found	
Contig128	21.12%	78.88%	0.00%	25.69%	56.88%	17.43%	
Contig1297_ABD	56.17%	30.03%	13.81%	54.42%	11.03%	34.55%	
Contig130	Fickett for	and Glimme	r not found	Fickett for	and Glimme	r not found	
Contig1303_ABD	Fickett for	and Glimme	r not found	Fickett for	and Glimme	r not found	
Contig132	79.43%	4.54%	16.02%	76.50%	0.00%	23.50%	
Contig133	62.67%	37.33%	0.00%	Glimmer f	ound Fickett	not found	
Contig134	19.71%	78.83%	1.46%	Glimmer f	ound Fickett	not found	
Contig137	Fickett for	and Glimme	r not found	Fickett for	and Glimme	r not found	
Contig141	36.76%	63.24%	0.00%	42.79%	57.21%	0.00%	
Contig144	24.38%	71.39%	4.23%	Both fo	und but not	overlap	

Name	Wir	ndows size 2	200	Wii	ndows size 5	00	
	found	over	under	found	over	under	
Contig145	Fickett fou	nd Glimme	not found	В	oth not found	i	
Contig146	29.43%	69.98%	0.59%	1.09%	63.08%	35.84%	
Contig148	25.76%	55.59%	18.64%	Glimmer fo	ound Fickett	not found	
Contig150	Fickett fou	nd Glimme	r not found	Fickett for	ınd Glimmer	not found	
Contig151	67.51%	4.59%	27.90%	48.15%	29.23%	22.62%	
Contig152	Fickett fou	Fickett found Glimmer not found			ınd Glimmer	not found	
Contig1539_ABD	53.98%	39.83%	6.19%	46.91%	37.62%	15.47%	
Contig1545_ABD	37.88%	62.12%	0.00%	67.08%	32.92%	0.00%	
Contig156	86.94%	2.46%	10.61%	53.27%	0.00%	46.73%	
Contig158	Fickett fou	nd Glimme	r not found	Fickett found Glimmer not found			
Contig159	Glimmer found Fickett not found Glimmer fo			ound Fickett	not found		
Contig161	29.18%	68.10%	2.72%	30.43%	60.17%	9.40%	
Contig162	Both for	and but not	overlap	Glimmer found Fickett not found			
Contig163	21.73%	78.27%	0.00%	29.33%	70.67%	0.00%	
Contig1638_ABD	Fickett fou	nd Glimme	r not found	Fickett for	ınd Glimmer	not found	
Contig166	81.62%	5.15%	13.24%	15.33%	0.74%	83.94%	
Contig1661_ABD	Fickett fou	nd Glimme	r not found	Fickett for	ınd Glimmer	not found	
Contig167	Fickett fou	nd Glimme	r not found	Fickett for	ınd Glimmer	not found	
Contig169	Fickett fou	nd Glimme	r not found	Fickett for	ınd Glimmer	not found	
Contig1714_ABD	63.77%	36.23%	0.00%	24.13%	18.84%	57.02%	
Contig172	67.88%	17.98%	14.14%	49.26%	0.00%	50.74%	
Contig174	85.66%	0.00%	14.34%	16.08%	14.69%	69.23%	
Contig175	21.43%	61.90%	16.67%	Both found but not overlap		overlap	
Contig176	Fickett found Glimmer not found			Both not found			
Contig178	7.39%	92.61%	0.00%	8.53%	91.47%	0.00%	
Contig178_ABD	45.05%	54.95%	0.00%	44.01%	49.60%	6.38%	
Contig179	Fickett fou	nd Glimme	r not found	Fickett fou	ınd Glimmer	not found	

Name	Wir	ndows size 2	200	Wir	ndows size 5	00	
	found	over	under	found	over	under	
Contig180	Fickett fou	nd Glimme	r not found	В	oth not found	i	
Contig181	Fickett fou	nd Glimme	r not found	В	oth not found	l	
Contig183	36.36%	37.21%	26.43%	68.42%	31.58%	0.00%	
Contig184	81.34%	11.34%	7.32%	27.51%	0.00%	72.49%	
Contig185	76.85%	18.99%	4.17%	45.65%	16.04%	38.31%	
Contig186	Fickett fou	nd Glimme	r not found	Fickett fou	and Glimmer	not found	
Contig187	Fickett fou	nd Glimmer	r not found	Both not found			
Contig188	Fickett fou	nd Glimme	r not found	Fickett found Glimmer not foun			
Contig190	Glimmer f	ound Ficket	t not found	Glimmer found Fickett not fou			
Contig192	Fickett fou	nd Glimme	r not found				
Contig194	41.48%	57.17%	1.35%	3.15%	59.87%	36.97%	
Contig195	19.96%	51.84%	28.20%	Both for	und but not o	verlap	
Contig196	7.85%	70.62%	21.53%	Glimmer f	ound Fickett	not found	
Contig197	Fickett fou	nd Glimme	r not found	В	oth not found	l ///	
Contig198	Fickett fou	nd Glimme	r not found	В	oth not found	i	
Contig200	Fickett fou	nd Glimme	r not found	Fickett fou	ınd Glimmer	not found	
Contig201	Fickett fou	nd Glimme	r not found	Fickett fou	ınd Glimmer	not found	
Contig203	Both for	and but not	overlap	Glimmer f	ound Fickett	not found	
Contig204	36.28%	63.72%	0.00%	38.43%	43.06%	18.51%	
Contig206	Glimmer f	ound Ficket	t not found	Glimmer f	ound Fickett	not found	
Contig207	37.81%	23.50%	38.69%	45.80%	0.00%	54.20%	
Contig209	59.80%	40.20%	0.00%	30.98%	30.52%	38.50%	
Contig212	Fickett fou	nd Glimme	r not found	В	oth not found	1, 0	
Contig213	54.44%	0.72%	44.84%	Glimmer found Fickett not found			
Contig214	25.55%	68.39%	6.06%	53.09%	46.91%	0.00%	
Contig215	Fickett fou	nd Glimme	r not found	Fickett fou	ınd Glimmer	not found	
Contig216	Fickett fou	nd Glimme	r not found	В	oth not found	i	

Name	Win	dows size 2	200	Wii	ndows size 5	00
	found	over	under	found	over	under
Contig217	69.67%	17.68%	12.65%	24.62%	0.00%	75.38%
Contig218	Fickett fou	nd Glimme	r not found	Fickett for	ınd Glimmei	not found
Contig219	96.07%	3.93%	0.00%	81.81%	0.68%	17.51%
Contig220	77.72%	22.28%	0.00%	62.03%	16.04%	21.93%
Contig222	Fickett four	nd Glimmer	not found	Fickett for	ınd Glimmei	not found
Contig224	52.49%	39.39%	8.11%	Both found but not overlap		
Contig225	Fickett fou	nd Glimme	r not found	Both not found		
Contig227	Fickett fou	nd Glimme	r not found	Fickett found Glimmer not foun		
Contig228	Fickett fou	nd Glimme	r not found	Both not found		
Contig229	Fickett fou	nd Glimmer	r not found	Both not found Fickett found Glimmer not found		
Contig232	Fickett fou	nd Glimme	r not found			
Contig233	Fickett fou	nd Glimme	r not found	В	oth not foun	d
Contig234	65.84%	30.53%	3.63%	80.00%	20.00%	0.00%
Contig235	89.61%	0.00%	10.39%	Glimmer f	ound Fickett	t not found
Contig239	Fickett fou	nd Glimme	not found	Fickett for	ınd Glimmei	not found
Contig240	54.13%	22.02%	23.85%	36.70%	22.02%	41.28%
Contig241	Fickett fou	nd Glimme	r not found	Fickett for	ınd Glimmei	not found
Contig242	Fickett fou	nd Glimme	r not found	Fickett for	ınd Glimmeı	not found
Contig243	Fickett fou	nd Glimme	r not found	В	oth not foun	d
Contig244	Fickett fou	nd Glimme	r not found	B	oth not foun	d
Contig245	Fickett fou	nd Glimme	r not found	Fickett fou	ınd Glimmeı	not found
Contig246	57.71%	37.05%	5.24%	53.22%	13.14%	33.64%
Contig247	Fickett fou	nd Glimme	r not found	Fickett found Glimmer not found Both found but not overlap		
Contig248	6.54%	87.17%	6.28%			
Contig249	Fickett fou	nd Glimme	r not found	В	oth not foun	d
Contig250	79.26%	15.45%	5.29%	53.34%	15.45%	31.21%
Contig251	Both for	ınd but not	overlap	Glimmer f	ound Fickett	t not found

Name	Wir	ndows size 2	200	Wii	ndows size 5	00
	found	over	under	found	over	under
Contig252	49.48%	33.97%	16.54%	50.46%	0.95%	48.59%
Contig254	63.78%	7.33%	28.89%	38.64%	10.01%	51.35%
Contig255	11.50%	88.50%	0.00%	13.27%	86.73%	0.00%
Contig257	5.71%	94.29%	0.00%	6.71%	93.29%	0.00%
Contig258	88.25%	8.83%	2.92%	62.94%	12.07%	24.99%
Contig259	0.92%	49.77%	49.31%	Both for	und but not	overlap
Contig261	17.24%	82.76%	0.00%	17.38%	82.62%	0.00%
Contig263	69.59%	30.41%	0.00%	81.34%	6.77%	11.90%
Contig265	55.62%	44.38%	0.00%	83.05%	16.09%	0.86%
Contig266	33.57%	66.43%	0.00%	Glimmer f	ound Fickett	t not found
Contig267	Fickett fou	ınd Glimmei	r not found	Both not found		
Contig268	71.97%	28.03%	0.00%	57.95%	0.63%	41.42%
Contig269	Fickett fou	ınd Glimme	r not found	Fickett found Glimmer not found		
Contig270	Both for	and but not	overlap	Glimmer f	ound Ficket	t not found
Contig273	Fickett fou	ınd Glimme	r not found	Fickett for	ınd Glimmei	not found
Contig274	Fickett fou	ınd Glimmei	r not found	Fickett for	ınd Glimmei	not found
Contig276	Fickett fou	and Glimmer	r not found	Fickett for	ınd Glimmei	not found
Contig277	Fickett fou	ınd Glimme	r not found	Fickett for	ınd Glimmeı	not found
Contig279	58.60%	6.60%	34.80%	12.37%	0.00%	87.63%
Contig280	62.27%	5.68%	32.05%	18.17%	7.37%	74.46%
Contig281	29.87%	70.13%	0.00%	18.77%	59.73%	21.50%
Contig282	Fickett fou	ınd Glimme	r not found	Fickett for	ınd Glimmei	not found
Contig284	34.45%	39.65%	25.89%	Both found but not overlap Fickett found Glimmer not found		
Contig285	Fickett fou	and Glimmer	r not found			
Contig286	41.63%	43.56%	14.81%	40.64%	22.81%	36.55%
Contig287	53.03%	46.97%	0.00%	53.21%	14.88%	31.91%
Contig288	Fickett fou	ınd Glimme	r not found	Fickett for	ınd Glimmeı	not found

Name	Win	ndows size 2	200	Wii	ndows size 5	500	
	found	over	under	found	over	under	
Contig289	63.83%	0.75%	35.41%	60.88%	24.35%	14.76%	
Contig291	Fickett fou	ınd Glimme	r not found	Fickett for	ınd Glimmei	r not found	
Contig292	51.85%	26.43%	21.72%	22.05%	0.00%	77.95%	
Contig293	65.23%	26.43%	8.34%	Glimmer found Fickett not for			
Contig294	Both for	und but not	overlap	Glimmer f	ound Ficket	t not found	
Contig295	Fickett fou	ınd Glimme	r not found	Fickett for	ınd Glimmer	r not found	
Contig296	23.29%	50.00%	26.71%	4.14%	34.87%	60.99%	
Contig297	25.30%	67.13%	7.57%	12.73%	77.17%	10.10%	
Contig298	32.45%	43.05%	24.50%	Glimmer found Fickett not for			
Contig299	34.25%	51.73%	14.02%	Glimmer found Fickett not for			
Contig300	Fickett fou	ınd Glimme	r not found	Fickett found Glimmer not fou			
Contig301	57.54%	9.41%	33.05%	41.47%	11.51%	47.02%	
Contig303	20.41%	76.29%	3.30%	4.98%	61.46%	33.55%	
Contig304	62.05%	11.03%	26.92%	43.23%	0.00%	56.77%	
Contig305	19.65%	39.96%	40.40%	Both for	und but not	overlap	
Contig305_ABD	35.38%	57.02%	7.59%	41.21%	41.17%	17.62%	
Contig306	Fickett fou	ınd Glimme	r not found	В	oth not foun	d	
Contig307	Fickett fou	ınd Glimmei	r not found	Fickett for	ınd Glimmei	r not found	
Contig308	23.33%	76.67%	0.00%	32.22%	67.78%	0.00%	
Contig309	37.81%	11.45%	50.74%	31.97%	5.02%	63.01%	
Contig310	Fickett fou	ınd Glimme	r not found	Fickett for	ınd Glimmei	r not found	
Contig311	56.37%	18.95%	24.69%	19.90%	18.95%	61.15%	
Contig313	41.10%	30.21%	28.69%	32.83%	5.02%	62.16%	
Contig314	8.43%	91.57%	0.00%	14.46%	85.54%	0.00%	
Contig315	58.77%	40.06%	1.17%	53.10%	35.82%	11.08%	
Contig316	73.99%	0.00%	26.01%	41.37%	0.00%	58.63%	
Contig317	64.63%	27.07%	8.30%	Glimmer f	ound Ficket	t not found	

Name	Wir	ndows size 2	00	Wit	ndows size 5	00	
	found	over	under	found	over	under	
Contig318	Fickett for	ınd Glimmer	not found	В	oth not found	d	
Contig319	75.29%	4.23%	20.48%	62.97%	4.45%	32.58%	
Contig320	41.88%	58.12%	0.00%	57.41%	34.92%	7.67%	
Contig321	Fickett fou	ınd Glimmer	not found	Fickett fou	ınd Glimmer	not found	
Contig322	60.43%	12.68%	26.89%	55.97%	2.63%	41.40%	
Contig325	Fickett fou	ınd Glimmer	not found	Both not found			
Contig326	Both for	und but not o	overlap	Glimmer f	ound Fickett	not found	
Contig327	24.68%	30.43%	44.89%	Glimmer found Fickett not for			
Contig328	Fickett fou	ınd Glimmer	mmer not found Fickett found Glimme			r not found	
Contig329	30.61%	56.83%	12.56%	41.11%	44.11%	14.79%	
Contig330	61.06%	27.96%	10.98%	32.42%	17.23%	50.35%	
Contig331	31.11%	59.81%	9.08%	62.77%	5.35%	31.87%	
Contig332	34.71%	37.32%	27.97%	Both found but not overlap			
Contig333	80.39%	15.94%	3.66%	86.19%	8.80%	5.01%	
Contig334	68.29%	18.65%	13.05%	45.80%	3.27%	50.93%	
Contig335	38.45%	58.80%	2.75%	37.14%	62.86%	0.00%	
Contig336	Fickett fou	ınd Glimmer	not found	Fickett fou	ınd Glimmer	not found	
Contig337	52.03%	41.34%	6.63%	52.60%	33.05%	14.35%	
Contig338	Glimmer f	ound Fickett	not found	Glimmer f	ound Fickett	not found	
Contig339	Fickett fou	ınd Glimmer	not found	9 S B	oth not found	d P	
Contig340	98.56%	1.44%	0.00%	79.23%	1.07%	19.70%	
Contig341	39.83%	53.55%	6.61%	17.42%	42.64%	39.94%	
Contig342	Fickett fou	ınd Glimmer	not found	Fickett fou	ınd Glimmer	not found	
Contig343	88.57%	3.55%	7.88%	27.09%	2.57%	70.33%	
Contig344	47.31%	37.71%	14.98%	52.84%	14.51%	32.65%	
Contig345	40.02%	17.71%	42.28%	Glimmer f	ound Fickett	not found	
Contig346	Fickett for	ınd Glimmer	not found	Fickett fou	ınd Glimmer	not found	

Name	Win	ndows size 2	00	Wir	ndows size 5	00
	found	over	under	found	over	under
Contig347	46.56%	35.16%	18.28%	23.46%	0.00%	76.54%
Contig348	Fickett for	ınd Glimmer	not found	В	oth not found	d
Contig349	38.97%	59.10%	1.94%	39.86%	26.96%	33.18%
Contig350	7.08%	74.69%	18.24%	10.12%	53.47%	36.42%
Contig351	30.56%	69.44%	0.00%	76.75%	12.42%	10.83%
Contig352	63.13%	33.66%	3.21%	67.41%	17.25%	15.34%
Contig353	61.47%	23.10%	15.42%	35.21%	22.15%	42.64%
Contig354	47.62%	39.22%	13.17%	45.39%	46.21%	8.40%
Contig355	49.04%	0.96%	50.00%	Glimmer f	ound Fickett	not found
Contig356	57.73%	0.00%	42.27%	Both for	and but not o	overlap
Contig357	Both for	und but not o	overlap	Glimmer f	ound Fickett	not found
Contig358	36.24%	63.76%	0.00%	14.64%	57.03%	28.33%
Contig359	Fickett for	ınd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig360	37.40%	56.67%	5.94%	33.85%	54.38%	11.78%
Contig361	64.22%	17.11%	18.67%	Both for	and but not o	overlap
Contig363	37.80%	37.97%	24.24%	46.13%	53.87%	0.00%
Contig364	Fickett for	and Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig365	71.94%	14.47%	13.59%	47.21%	15.29%	37.50%
Contig367	41.44%	55.44%	3.13%	37.79%	60.79%	1.42%
Contig368	73.74%	18.37%	7.89%	75.22%	7.30%	17.48%
Contig369	Fickett for	ınd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig370	29.13%	0.00%	70.87%	Glimmer f	ound Fickett	not found
Contig371	Both for	und but not o	overlap	Both for	and but not o	overlap
Contig372	31.30%	54.20%	14.49%	17.14%	17.92%	64.94%
Contig373	62.46%	36.25%	1.28%	52.99%	42.31%	4.71%
Contig374	Fickett for	ınd Glimmer	not found	В	oth not found	d
Contig375	Fickett for	ınd Glimmer	not found	Fickett fou	nd Glimmer	not found

Name	Win	dows size 2	00	Wir	ndows size 5	00
	found	over	under	found	over	under
Contig376	56.07%	14.56%	29.37%	33.22%	10.05%	56.74%
Contig377	92.29%	7.35%	0.35%	25.93%	28.75%	45.33%
Contig378	40.77%	12.96%	46.27%	27.86%	10.98%	61.16%
Contig379	30.68%	64.29%	5.03%	4.36%	60.07%	35.57%
Contig380	43.07%	52.76%	4.17%	66.24%	33.76%	0.00%
Contig381	56.50%	23.92%	19.58%	Both for	und but not o	overlap
Contig382	69.12%	22.79%	8.09%	62.30%	6.60%	31.10%
Contig383	60.87%	3.67%	35.45%	25.50%	2.22%	72.28%
Contig384	Fickett fou	nd Glimmer	not found	Fickett fou	ınd Glimmer	not found
Contig385	Fickett fou	nd Glimmer	not found	Fickett found Glimmer not fo		
Contig386	37.00%	37.71%	25.29%	Glimmer found Fickett not for		
Contig387	46.94%	37.36%	15.70%	30.67%	24.92%	44.41%
Contig388	65.05%	14.68%	20.27%	43.44%	0.10%	56.47%
Contig389	70.56%	2.28%	27.16%	70.84%	0.00%	29.16%
Contig390	42.09%	34.65%	23.26%	16.35%	38.14%	45.51%
Contig391	42.39%	21.59%	36.03%	62.41%	22.70%	14.89%
Contig392	25.93%	25.93%	48.14%	Both for	und but not o	overlap
Contig393	11.77%	88.23%	0.00%	13.83%	86.17%	0.00%
Contig394	44.78%	26.12%	29.09%	30.72%	59.53%	9.74%
Contig395	Fickett fou	nd Glimmer	not found	Fickett fou	ınd Glimmer	not found
Contig396	35.82%	60.51%	3.67%	19.22%	66.38%	14.40%
Contig398	58.13%	13.53%	28.34%	23.25%	6.35%	70.40%
Contig399	42.70%	57.30%	0.00%	32.78%	40.31%	26.91%
Contig400	44.41%	32.81%	22.78%	38.61%	23.96%	37.43%
Contig401	63.25%	18.64%	18.11%	34.46%	3.86%	61.68%
Contig402	46.32%	41.61%	12.06%	37.40%	0.00%	62.60%
Contig403	55.71%	36.46%	7.83%	37.97%	18.11%	43.93%

Name	Wii	ndows size 2	200	Win	ndows size 5	000	
	found	over	under	found	over	under	
Contig404	59.76%	39.35%	0.89%	49.10%	38.84%	12.06%	
Contig405	56.72%	28.32%	14.96%	2.90%	26.08%	71.03%	
Contig406	Fickett for	ınd Glimme	r not found	Fickett for	and Glimmer	not found	
Contig407	Fickett for	ınd Glimme	r not found	Fickett for	and Glimmer	not found	
Contig408	19.77%	33.99%	46.24%	Both fo	und but not	overlap	
Contig409	43.08%	56.92%	0.00%	35.65%	56.84%	7.51%	
Contig410	64.47%	19.22%	16.31%	28.83%	34.46%	36.71%	
Contig411	58.97%	38.11%	2.92%	35.41%	64.59%	0.00%	
Contig412	25.34%	31.80%	42.86%	27.10%	25.96%	46.94%	
Contig413	Both for	und but not	overlap	2.54%	96.89%	0.57%	
Contig414	Fickett for	ınd Glimme	r not found	Fickett found Glimmer not for			
Contig415	49.89%	42.69%	7.42%	66.28%	0.18%	33.54%	
Contig416	Fickett for	ınd Glimme	r not found	Fickett found Glimmer not found			
Contig417	84.62%	9.76%	5.61%	78.45%	0.00%	21.55%	
Contig418	49.22%	44.85%	5.93%	66.75%	15.01%	18.24%	
Contig419	Fickett for	ınd Glimme	r not found	Fickett found Glimmer not foun			
Contig420	Fickett found Glimmer not found			В	oth not foun	d	
Contig421	81.49%	14.34%	4.17%	40.83%	19.58%	39.58%	
Contig422	59.15%	29.33%	11.52%	67.96%	5.07%	26.97%	
Contig423	Fickett for	and Glimme	r not found	Fickett for	and Glimmer	not found	
Contig424	Fickett for	ınd Glimme	r not found	Fickett for	and Glimmer	not found	
Contig425	76.24%	13.72%	10.04%	44.32%	1.49%	54.19%	
Contig426	17.49%	19.06%	63.45%	Both fo	und but not	overlap	
Contig427	69.86%	29.32%	0.81%	57.31%	32.61%	10.08%	
Contig428	57.69%	16.26%	26.05%	52.81%	9.35%	37.84%	
Contig429	Fickett for	ınd Glimme	r not found	Fickett for	and Glimme	not found	
Contig430	73.80%	6.76%	19.44%	30.16%	11.70%	58.14%	

Name	Wir	ndows size 2	00	Win	ndows size 5	00
	found	over	under	found	over	under
Contig431	51.81%	21.39%	26.80%	33.67%	18.77%	47.56%
Contig432	63.62%	18.64%	17.73%	46.63%	22.56%	30.81%
Contig433	23.88%	74.08%	2.04%	Both for	und but not o	overlap
Contig434	29.90%	68.61%	1.49%	45.40%	43.84%	10.77%
Contig435	57.28%	0.00%	42.72%	23.64%	0.00%	76.36%
Contig436	69.60%	11.56%	18.84%	49.24%	1.07%	49.69%
Contig437	Fickett fou	nd Glimmer	not found	В	oth not found	i
Contig438	41.32%	51.26%	7.42%	48.11%	35.15%	16.74%
Contig439	51.24%	22.05%	26.71%	30.87%	6.38%	62.75%
Contig440	50.00%	43.46%	6.54%	61.11%	25.31%	13.58%
Contig441	57.17%	6.95%	35.88%	13.34%	42.55%	44.11%
Contig442	60.45%	26.25%	13.30%	53.71%	8.29%	37.99%
Contig443	27.21%	59.73%	13.06%	32.00%	0.00%	68.00%
Contig444	Glimmer f	ound Fickett	not found	Glimmer f	r found Fickett not found	
Contig446	55.47%	37.78%	6.74%	43.53%	32.10%	24.37%
Contig447	84.78%	14.23%	1.00%	33.50%	44.73%	21.77%
Contig448	61.14%	24.20%	14.66%	65.03%	17.38%	17.59%
Contig449	43.75%	50.66%	5.59%	34.48%	30.69%	34.83%
Contig450	29.94%	65.19%	4.87%	31.58%	59.59%	8.82%
Contig451	50.51%	31.31%	18.18%	20.21%	18.57%	61.23%
Contig452	46.09%	47.63%	6.27%	37.04%	43.20%	19.76%
Contig453	69.23%	27.48%	3.29%	64.74%	23.05%	12.21%
Contig454	44.53%	35.75%	19.72%	37.88%	8.11%	54.01%
Contig456	9.40%	88.74%	1.87%	Both found but not overlap		overlap
Contig457	Both for	and but not o	overlap	Both for	und but not o	overlap
Contig458	59.73%	4.00%	36.27%	33.51%	0.94%	65.54%
Contig459	41.23%	43.83%	14.94%	4.79%	59.11%	36.10%

Name	Wir	ndows size 2	00	Windows size 500			
	found	over	under	found	over	under	
Contig460	47.01%	49.45%	3.53%	32.53%	58.77%	8.71%	
Contig461	21.74%	46.42%	31.84%	Both for	and but not c	verlap	
Contig462	61.27%	11.39%	27.34%	42.43%	2.32%	55.24%	
Contig463	Fickett fou	ınd Glimmer	not found	Fickett fou	nd Glimmer	not found	
Contig464	49.70%	17.11%	33.19%	24.56%	8.09%	67.35%	
Contig465	50.10%	44.73%	5.17%	54.67%	3.00%	42.33%	
Contig466	60.21%	24.32%	15.48%	45.22%	21.08%	33.70%	
Contig467	68.12%	21.90%	9.98%	67.95%	11.09%	20.96%	
Contig468	45.98%	5.92%	48.10%	40.78%	0.00%	59.28%	
Contig469	Fickett fou	and Glimmer	not found	Fickett found Glimmer not found			
Contig470	41.98%	28.65%	29.37%	36.81%	18.21%	44.97%	
Contig471	25.47%	58.52%	16.01%	56.40%	22.30%	21.30%	
Contig471_ABD	Fickett fou	ınd Glimmei	not found	Во	Both not found		
Contig472	87.38%	3.68%	8.93%	59.53%	2.27%	38.20%	
Contig473	Both for	and but not o	overlap	Glimmer fo	ound Fickett	not found	
Contig474	55.18%	28.72%	16.11%	51.86%	17.39%	30.75%	
Contig475	40.86%	54.00%	5.13%	52.49%	25.54%	21.97%	
Contig476	36.95%	44.81%	18.24%	25.80%	55.28%	18.93%	
Contig477	16.17%	81.87%	1.96%	23.11%	72.39%	4.50%	
Contig478	55.06%	39.06%	5.87%	33.70%	33.42%	32.88%	
Contig479	39.36%	40.52%	20.12%	20.24%	40.07%	39.69%	
Contig480	31.73%	33.35%	34.92%	42.76%	31.52%	25.71%	
Contig481	51.01%	35.83%	13.16%	46.35%	3.25%	50.40%	
Contig482	48.98%	51.02%	0.00%	57.44%	42.56%	0.00%	
Contig483	40.34%	57.93%	1.72%	36.20%	56.27%	7.53%	
Contig484	50.96%	35.82%	13.22%	51.67%	19.76%	28.57%	
Contig485	65.16%	6.28%	28.56%	47.61%	1.38%	51.01%	

Name	Win	ndows size 2	00	Win	ndows size 5	00	
	found	over	under	found	over	under	
Contig486	64.09%	18.30%	17.61%	36.62%	8.65%	54.73%	
Contig487	48.74%	22.77%	28.49%	32.12%	14.12%	53.76%	
Contig488	57.07%	42.93%	0.00%	58.24%	36.52%	5.24%	
Contig489	45.39%	47.77%	6.84%	Both for	und but not o	overlap	
Contig490	21.28%	57.91%	20.81%	30.65%	61.87%	7.47%	
Contig491	41.24%	47.52%	11.24%	46.18%	32.21%	21.61%	
Contig492	Fickett fou	nd Glimmer	not found	Fickett fou	ınd Glimmer	not found	
Contig493	37.10%	55.10%	7.80%	47.54%	15.87%	36.58%	
Contig494	25.99%	48.21%	25.79%	40.89%	39.99%	19.12%	
Contig495	58.51%	32.52%	8.97%	52.88%	5.32%	41.80%	
Contig496	36.63%	55.82%	7.55%	19.00%	51.24%	29.76%	
Contig497	42.62%	41.68%	15.70%	22.39%	38.35%	39.25%	
Contig498	36.33%	31.78%	31.89%	Glimmer found Fickett not for		not found	
Contig499	76.02%	4.93%	19.05%	44.91%	1.88%	53.21%	
Contig500	42.99%	36.16%	20.85%	18.95%	20.23%	60.81%	
Contig501	62.62%	20.49%	16.88%	73.58%	4.87%	21.55%	
Contig502	52.65%	30.38%	16.97%	20.26%	46.26%	33.48%	
Contig503	73.22%	16.72%	10.07%	Glimmer f	ound Fickett	not found	
Contig504	31.96%	68.04%	0.00%	36.37%	57.49%	6.14%	
Contig505	56.26%	20.00%	23.75%	32.61%	15.42%	51.97%	
Contig506	57.74%	31.24%	11.02%	36.25%	45.89%	17.85%	
Contig507	40.71%	45.92%	13.37%	17.80%	46.42%	35.78%	
Contig508	51.95%	28.15%	19.91%	40.90%	22.46%	36.64%	
Contig509	49.91%	33.57%	16.51%	46.26%	22.47%	31.26%	
Contig510	60.52%	32.07%	7.41%	35.91%	26.70%	37.39%	
Contig511	41.58%	45.67%	12.75%	29.93%	45.16%	24.91%	
Contig512	73.79%	20.80%	5.42%	57.49%	29.45%	13.07%	

Name	Wir	ndows size 2	00	Wii	ndows size 5	00
	found	over	under	found	over	under
Contig513	11.76%	77.21%	11.03%	17.00%	83.00%	0.00%
Contig514	63.45%	21.30%	15.24%	45.46%	9.00%	45.54%
Contig515	50.39%	32.09%	17.52%	44.90%	22.08%	33.02%
Contig516	44.11%	36.87%	19.02%	30.69%	31.73%	37.58%
Contig517	67.25%	23.13%	9.62%	54.19%	14.70%	31.12%
Contig518	67.19%	25.42%	7.40%	48.33%	21.71%	29.97%
Contig520	62.37%	4.99%	32.64%	67.65%	4.38%	27.97%
Contig521	43.79%	51.62%	4.59%	35.63%	40.09%	24.27%
Contig522	21.53%	78.47%	0.00%	Glimmer f	ound Fickett	not found
Contig523	Fickett fou	nd Glimmer	not found	Fickett found Glimmer not for		
Contig524	48.30%	34.44%	17.25%	39.38%	30.90%	29.72%
Contig525	45.61%	51.06%	3.33%	45.79%	39.27%	14.93%
Contig526	12.73%	87.27%	0.00%	14.62%	85.38%	0.00%
Contig527	52.91%	24.80%	22.29%	52.24%	11.18%	36.58%
Contig528	39.97%	48.96%	11.07%	58.60%	16.43%	24.97%
Contig529	29.22%	61.24%	9.55%	36.24%	49.29%	14.48%
Contig530	38.23%	47.86%	13.92%	52.57%	31.32%	16.11%
Contig531	49.67%	44.99%	5.33%	61.68%	15.37%	22.96%
Contig532	49.14%	26.21%	24.65%	41.84%	25.28%	32.88%
Contig533	54.44%	39.79%	5.76%	46.86%	26.93%	26.21%
Contig534	72.70%	9.30%	18.00%	37.17%	1.46%	61.37%
Contig535	51.79%	19.09%	29.12%	45.30%	12.79%	41.92%
Contig536	48.90%	23.89%	27.21%	27.60%	22.21%	50.20%
Contig537	58.98%	29.68%	11.34%	39.53%	28.09%	32.39%
Contig538	63.71%	16.28%	20.01%	46.17%	1.99%	51.84%
Contig539	50.79%	26.19%	23.01%	34.45%	2.39%	63.16%
Contig540	82.50%	4.96%	12.55%	70.55%	2.86%	26.59%

Name	Windows size 200			Windows size 500			
	found	over	under	found	over	under	
Contig541	61.62%	14.47%	23.92%	43.78%	16.19%	40.03%	
Contig542	78.02%	15.55%	6.44%	59.87%	12.16%	27.98%	
Contig543	27.33%	39.33%	33.33%	Both found but not overlap			
Contig544	47.40%	42.58%	10.01%	33.24%	32.74%	34.02%	
Contig545	55.37%	30.16%	14.48%	33.66%	28.59%	37.75%	
Contig546	41.59%	58.41%	0.00%	47.74%	38.28%	13.98%	
Contig547	37.35%	51.54%	11.12%	29.69%	43.37%	26.94%	
Contig548	71.31%	6.50%	22.18%	46.70%	7.87%	45.43%	
Contig549	62.45%	8.14%	29.40%	39.93%	9.03%	51.04%	
Contig550	58.28%	36.38%	5.34%	43.07%	16.84%	40.09%	
Average	49.23%	35.59%	15.18%	47.51%	23.93%	28.56%	

ตารางแสดงค่า found, under และ over ของผลการทำนายจากโปรแกรม Fickett และ Glimmer โดย อ่านสายลำดับเบสวิธี Translate Complement

Name	Windows size 200			Wi	ndows size 3	500
	found	over	under	found	over	under
Contig106	Both for	und but not	overlap	Glimmer found Fickett not found		
Contig110	Fickett found Glimmer not found			Both not found		
Contig1101_ABD	53.19%	35.23%	11.57%	Both found but not overlap		
Contig111	Fickett found Glimmer not found			Both not found		
Contig113	Glimmer fo	ound Ficket	t not found	Glimmer f	ound Ficket	t not found
Contig114	35.71%	0.00%	64.29%	Both found but not overlap		
Contig1143_ABD	34.32%	38.09%	27.59%	29.13%	38.00%	32.88%
Contig115	59.97%	0.00%	40.03%	Glimmer found Fickett not found		
Contig117	Fickett found Glimmer not found			В	oth not four	nd
Contig120	Fickett found Glimmer not found			Fickett for	ınd Glimme	r not found

Name	Wir	ndows size 2	200	Win	ndows size 5	500
	found	over	under	found	over	under
Contig121	91.01%	8.99%	0.00%	65.83%	34.17%	0.00%
Contig122	Fickett fou	nd Glimmei	not found	Fickett found Glimmer not for		
Contig126	Fickett four	nd Glimmer	not found	В	oth not foun	d
Contig127	Fickett fou	nd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig128	30.32%	69.68%	0.00%	32.57%	56.88%	10.55%
Contig1297_ABD	66.81%	20.97%	12.23%	48.29%	11.80%	39.92%
Contig130	Fickett fou	nd Glimmei	not found	Fickett fou	nd Glimmer	not found
Contig1303_ABD	Fickett fou	nd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig132	94.41%	5.59%	0.00%	87.58%	0.00%	12.42%
Contig133	43.72%	56.28%	0.00%	Glimmer found Fickett not fou		
Contig134	15.06%	77.61%	7.34%	Glimmer found Fickett not foun		
Contig137	Fickett four	nd Glimmei	not found	Fickett found Glimmer not found		
Contig141	46.61%	53.39%	0.00%	49.36%	43.99%	6.65%
Contig144	Both found but not overlap			Glimmer f	ound Fickett	not found
Contig145	Fickett four	nd Glimmei	not found	Both not found		
Contig146	41.78%	58.22%	0.00%	2.33%	62.62%	35.05%
Contig148	26.67%	54.04%	19.30%	Glimmer f	ound Fickett	t not found
Contig150	Fickett four	nd Glimmei	not found	Fickett fou	nd Glimmer	not found
Contig151	59.32%	3.35%	37.33%	56.49%	23.64%	19.88%
Contig152	Fickett four	nd Glimmei	not found	Fickett fou	nd Glimmer	not found
Contig1539_ABD	77.77%	17.13%	5.11%	54.45%	18.21%	27.34%
Contig1545_ABD	35.53%	62.12%	2.35%	65.71%	34.29%	0.00%
Contig156	81.84%	11.18%	6.98%	83.80%	3.05%	13.15%
Contig158	Fickett fou	nd Glimmei	not found	Fickett fou	nd Glimmer	not found
Contig159	Both for	and but not	overlap	Glimmer f	ound Fickett	not found
Contig161	35.26%	63.64%	1.10%	30.43%	60.17%	9.40%
Contig162	Glimmer fo	ound Ficket	t not found	Glimmer f	ound Fickett	t not found

Name	Win	ndows size 2	200	Wit	ndows size 5	500	
	found	over	under	found	over	under	
Contig163	4.37%	89.89%	5.75%	4.62%	67.47%	27.91%	
Contig1638_ABD	Fickett fou	nd Glimme	r not found	Fickett fou	nd Glimmer	not found	
Contig166	80.98%	6.86%	12.16%	51.22%	4.04%	44.74%	
Contig1661_ABD	Fickett fou	nd Glimme	r not found	Fickett fou	nd Glimmer	not found	
Contig167	Fickett fou	nd Glimme	r not found	Fickett fou	nd Glimmer	not found	
Contig169	Fickett fou	nd Glimme	r not found	Fickett fou	nd Glimmer	not found	
Contig1714_ABD	73.72%	18.84%	7.44%	31.53%	28.32%	40.15%	
Contig172	77.33%	22.67%	0.00%	45.72%	30.48%	23.80%	
Contig174	57.71%	0.00%	42.29%	Both for	und but not	overlap	
Contig175	3.06%	62.59%	34.35%	Both for	und but not	overlap	
Contig176	Fickett fou	nd Glimme	r not found	Both not found			
Contig178	14.52%	85.48%	0.00%	11.09%	88.91%	0.00%	
Contig178_ABD	46.31%	53.69%	0.00%	42.19%	49.60%	8.21%	
Contig179	Fickett fou	nd Glimme	r not found	Fickett fou	nd Glimmer	not found	
Contig180	В	oth not four	nd	Both not found			
Contig181	Fickett fou	nd Glimme	r not found	Both not found			
Contig183	35.79%	37.21%	27.00%	64.89%	30.85%	4.26%	
Contig184	80.12%	11.34%	8.54%	49.52%	0.00%	50.48%	
Contig185	78.88%	19.94%	1.18%	64.77%	16.04%	19.19%	
Contig186	Fickett fou	nd Glimme	r not found	Fickett fou	nd Glimmer	not found	
Contig187	Fickett fou	nd Glimme	r not found	В	oth not foun	d	
Contig188	Fickett fou	nd Glimme	r not found	M ₂ B	oth not foun	dVers	
Contig190	Both for	und but not	overlap	Glimmer fo	ound Fickett	not found	
Contig192	Fickett fou	nd Glimme	r not found	В	oth not foun	d	
Contig194	26.69%	46.35%	26.97%	Glimmer fo	ound Fickett	not found	
	<u> </u>						
Contig195	34.38%	65.63%	0.00%	87.27%	0.00%	12.73%	

Name	Wi	ndows size 2	200	Wi	ndows size :	500	
	found	over	under	found	over	under	
Contig197	Fickett for	and Glimme	r not found	Both not found			
Contig198	Fickett for	Fickett found Glimmer not found			oth not four	nd	
Contig200	Fickett for	and Glimme	r not found	Fickett for	ınd Glimme	r not found	
Contig201	Fickett for	and Glimme	r not found	Fickett for	ınd Glimmer	r not found	
Contig203	Glimmer f	ound Ficket	t not found	Glimmer f	ound Ficket	t not found	
Contig204	71.28%	27.44%	1.28%	52.10%	20.73%	27.17%	
Contig206	Glimmer f	ound Ficket	t not found	Glimmer f	ound Ficket	t not found	
Contig207	36.49%	20.00%	43.51%	66.79%	0.00%	33.21%	
Contig209	52.59%	47.41%	0.00%	28.06%	32.07%	39.87%	
Contig212	Fickett for	Fickett found Glimmer not found			Both not found		
Contig213	70.66%	5.39%	23.94%	Glimmer f	ound Ficket	t not found	
Contig214	26.64%	68.02%	5.34%	60.67%	39.33%	0.00%	
Contig215	Fickett for	and Glimme	r not found	Fickett fou	ınd Glimmer	r not found	
Contig216	Fickett for	ınd Glimme	r not found	Fickett found Glimmer not found			
Contig217	69.94%	24.97%	5.10%	68.76%	0.00%	31.24%	
Contig218	Fickett for	and Glimme	r not found	В	oth not four	nd	
Contig219	96.56%	2.33%	1.11%	82.11%	2.33%	15.56%	
Contig220	88.20%	11.80%	0.00%	60.96%	16.04%	22.99%	
Contig222	Fickett for	and Glimme	r not found	Fickett for	ınd Glimmer	r not found	
Contig224	38.81%	39.39%	21.80%	Both fo	und but not	overlap	
Contig225	В	oth not four	nd	В	oth not four	ıd	
Contig227	Fickett for	and Glimme	r not found	Fickett for	ınd Glimme	r not found	
Contig228	Fickett for	Fickett found Glimmer not found			Both not found		
Contig229	Fickett for	and Glimme	r not found	Both not found			
Contig232	Fickett for	and Glimme	r not found	Fickett found Glimmer not found			
Contig233	Fickett for	and Glimme	r not found	Both not found			
Contig234	60.25%	39.75%	0.00%	56.55%	30.75%	12.71%	

Name	Win	ndows size 2	200	Win	ndows size 5	500
	found	over	under	found	over	under
Contig235	88.46%	0.61%	10.93%	Both for	und but not	overlap
Contig239	Fickett fou	nd Glimmer	not found	В	oth not foun	d
Contig240	54.13%	22.02%	23.85%	39.45%	22.02%	38.53%
Contig241	Fickett fou	nd Glimmer	not found	В	oth not foun	d
Contig242	Fickett fou	nd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig243	Ве	oth not foun	d	В	oth not foun	d
Contig244	Fickett fou	nd Glimmer	not found	В	oth not foun	d
Contig245	Fickett fou	nd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig246	58.23%	34.88%	6.90%	34.89%	36.81%	28.30%
Contig247	Fickett fou	nd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig248	13.27%	84.88%	1.85%	Both fo	und but not	overlap
Contig249	Fickett fou	nd Glimmer	not found	В	oth not foun	d
Contig250	81.40%	15.74%	2.86%	59.97%	16.32%	23.71%
Contig251	20.43%	61.89%	17.68%	Glimmer f	ound Fickett	not found
Contig252	53.62%	38.90%	7.48%	49.94%	18.17%	31.89%
Contig254	63.46%	18.39%	18.15%	43.02%	13.71%	43.28%
Contig255	11.59%	88.41%	0.00%	13.27%	86.73%	0.00%
Contig257	5.78%	94.22%	0.00%	6.71%	93.29%	0.00%
Contig258	54.52%	0.00%	45.48%	Both fo	und but not	overlap
Contig259	Both for	und but not	overlap	Glimmer f	ound Fickett	not found
Contig261	23.82%	76.18%	0.00%	47.11%	52.89%	0.00%
Contig263	62.59%	37.41%	0.00%	64.05%	27.69%	8.26%
Contig265	54.58%	45.42%	0.00%	75.84%	24.16%	0.00%
Contig266	30.32%	69.68%	0.00%	Glimmer f	ound Fickett	not found
Contig267	Fickett fou	nd Glimmer	not found	В	oth not foun	d
Contig268	81.90%	18.10%	0.00%	Glimmer f	ound Fickett	not found
Contig269	Fickett fou	nd Glimmer	not found	Fickett fou	nd Glimmer	not found

Name	Wi	ndows size	200	Wi	ndows size :	500
	found	over	under	found	over	under
Contig270	Both fo	und but not	overlap	Glimmer f	ound Ficket	t not found
Contig273	Fickett fou	ınd Glimme	r not found	Fickett for	ınd Glimme	r not found
Contig274	Fickett for	ınd Glimme	r not found	В	oth not four	nd
Contig276	Fickett for	ınd Glimme	r not found	Fickett for	ınd Glimme	r not found
Contig277	Fickett for	ınd Glimme	r not found	Fickett for	ınd Glimme	r not found
Contig279	69.93%	7.37%	22.70%	43.41%	6.51%	50.08%
Contig280	65.86%	11.29%	22.86%	27.58%	6.29%	66.14%
Contig281	26.52%	73.48%	0.00%	13.72%	64.02%	22.26%
Contig282	Fickett fou	ınd Glimme	r not found	Fickett fou	ınd Glimme	r not found
Contig284	17.53%	52.63%	29.84%	Both fo	und but not	overlap
Contig285	Fickett for	ınd Glimme	r not found	Fickett found Glimmer not found		
Contig286	62.38%	20.78%	16.84%	29.82%	23.19%	46.99%
Contig287	62.70%	25.66%	11.64%	32.34%	20.96%	46.70%
Contig288	Fickett fou	ınd Glimme	r not found	Fickett found Glimmer not found		
Contig289	88.59%	0.75%	10.66%	51.61%	19.76%	28.63%
Contig291	Fickett fou	ınd Glimme	r not found	Fickett for	ınd Glimme	r not found
Contig292	65.31%	24.27%	10.42%	39.73%	14.25%	46.03%
Contig293	70.62%	23.46%	5.92%	Glimmer f	ound Ficket	t not found
Contig294	19.48%	26.97%	53.55%	Both fo	und but not	overlap
Contig295	Fickett for	ınd Glimme	r not found	8 S B	oth not four	nd 1
Contig296	24.57%	16.57%	58.86%	Both fo	und but not	overlap
Contig297	Both fo	und but not	overlap	18.70%	73.74%	7.56%
Contig298	54.22%	42.76%	3.02%	41.26%	0.00%	58.74%
Contig299	5.08%	60.05%	34.87%	Both fo	und but not	overlap
Contig300	Fickett for	ınd Glimme	r not found	Fickett found Glimmer not found		
Contig301	73.30%	17.26%	9.44%	54.15%	9.41%	36.44%
Contig303	23.80%	76.20%	0.00%	8.69%	65.47%	25.84%

Name	Wir	ndows size 2	200	Win	ndows size 5	500
	found	over	under	found	over	under
Contig304	76.33%	1.63%	22.04%	48.27%	0.00%	51.73%
Contig305	Both for	and but not	overlap	Glimmer f	ound Fickett	t not found
Contig305_ABD	40.96%	46.93%	12.10%	40.48%	32.37%	27.14%
Contig306	Both not found			В	oth not foun	d
Contig307	Fickett four	nd Glimmer	not found	Fickett fou	ınd Glimmei	not found
Contig308	26.36%	73.64%	0.00%	Both fo	und but not	overlap
Contig309	48.06%	35.05%	16.89%	73.95%	8.64%	17.41%
Contig310	Fickett four	nd Glimmer	not found	Fickett fou	and Glimmer	not found
Contig311	59.66%	22.62%	17.72%	33.16%	10.82%	56.01%
Contig313	41.48%	33.12%	25.40%	25.54%	31.86%	42.60%
Contig314	22.29%	77.71%	0.00%	Both fo	und but not	overlap
Contig315	51.24%	36.34%	12.42%	29.11%	25.02%	45.87%
Contig316	81.79%	4.32%	13.89%	69.37%	2.18%	28.45%
Contig317	74.55%	25.45%	0.00%	Glimmer f	ound Fickett	t not found
Contig318	Fickett four	nd Glimmei	not found	Both not found		
Contig319	47.51%	31.19%	21.29%	40.61%	27.64%	31.74%
Contig320	74.15%	25.85%	0.00%	51.91%	20.43%	27.66%
Contig321	Fickett four	nd Glimmer	not found	Fickett fou	ınd Glimmei	not found
Contig322	74.01%	16.98%	9.01%	59.57%	14.04%	26.38%
Contig325	Fickett four	nd Glimmer	not found	Fickett fou	ınd Glimmei	not found
Contig326	Both for	und but not	overlap	Glimmer f	ound Fickett	t not found
Contig327	29.83%	30.74%	39.43%	36.36%	43.72%	19.91%
Contig328	Fickett fou	nd Glimmei	not found	Fickett fou	ınd Glimmei	not found
Contig329	38.46%	42.54%	19.01%	31.05%	47.76%	21.19%
Contig330	54.89%	27.21%	17.90%	15.54%	17.23%	67.23%
Contig331	66.12%	24.67%	9.21%	86.44%	13.56%	0.00%
Contig332	53.63%	34.82%	11.55%	15.22%	44.16%	40.61%

Name	Wir	ndows size 2	200	Wii	ndows size 5	500	
	found	over	under	found	over	under	
Contig333	80.94%	17.52%	1.54%	55.57%	15.20%	29.23%	
Contig334	49.86%	34.03%	16.10%	45.87%	3.98%	50.15%	
Contig335	13.52%	60.36%	26.12%	52.00%	48.00%	0.00%	
Contig336	Fickett four	nd Glimme	r not found	Fickett fou	nd Glimmer	not found	
Contig337	52.89%	41.92%	5.19%	61.51%	30.52%	7.97%	
Contig338	Glimmer fo	ound Ficket	t not found	Glimmer fo	ound Fickett	not found	
Contig339	Fickett four	nd Glimmer	r not found	В	oth not foun	d	
Contig340	98.29%	0.00%	1.71%	78.47%	0.44%	21.09%	
Contig341	37.96%	50.04%	12.00%	Glimmer found Fickett not found			
Contig342	Fickett found Glimmer not found			Fickett found Glimmer not found			
Contig343	78.21%	18.50%	3.28%	53.74%	2.83%	43.43%	
Contig344	58.79%	34.23%	6.98%	57.17%	12.98%	29.85%	
Contig345	82.32%	10.74%	6.94%	Glimmer found Fickett not found		not found	
Contig346	Fickett four	nd Glimme	r not found	Fickett found Glimmer not found			
Contig347	58.24%	11.07%	30.69%	38.06%	8.76%	53.18%	
Contig348	Fickett four	nd Glimme	r not found	Both not found			
Contig349	43.85%	36.20%	19.95%	Both for	und but not	overlap	
Contig350	22.37%	45.42%	32.20%	Both for	und but not	overlap	
Contig351	33.95%	66.05%	0.00%	48.73%	41.98%	9.28%	
Contig352	57.10%	38.44%	4.47%	60.31%	25.72%	13.97%	
Contig353	63.36%	23.86%	12.78%	52.81%	26.46%	20.72%	
Contig354	51.85%	31.39%	16.76%	46.51%	35.78%	17.71%	
Contig355	55.71%	0.00%	44.29%	Glimmer fo	ound Fickett	not found	
Contig356	63.92%	0.00%	36.08%	Both for	und but not	overlap	
Contig357	Both for	und but not	overlap	Glimmer fo	ound Fickett	not found	
Contig358	43.72%	30.99%	25.29%	25.51%	30.56%	43.93%	
Contig359	Fickett four	nd Glimme	r not found	В	oth not foun	d	

Name	Win	ndows size 2	200	Win	ndows size 3	500
	found	over	under	found	over	under
Contig360	37.48%	56.57%	5.95%	38.39%	53.82%	7.79%
Contig361	29.88%	17.11%	53.01%	Both fo	und but not	overlap
Contig363	26.11%	36.55%	37.33%	49.31%	50.69%	0.00%
Contig364	Fickett found Glimmer not found			В	oth not foun	nd
Contig365	69.91%	16.89%	13.21%	45.55%	19.91%	34.55%
Contig367	36.05%	63.44%	0.51%	36.53%	63.47%	0.00%
Contig368	72.10%	18.79%	9.11%	75.98%	7.15%	16.87%
Contig369	Fickett fou	nd Glimmer	not found	Fickett fou	ınd Glimmei	not found
Contig370	44.12%	0.00%	55.88%	42.39%	0.00%	57.61%
Contig371	76.00%	24.00%	0.00%	Both fo	und but not	overlap
Contig372	28.11%	55.80%	16.08%	12.59%	21.98%	65.43%
Contig373	47.35%	47.56%	5.09%	38.35%	46.16%	15.49%
Contig374	Fickett found Glimmer not found			В	oth not foun	ıd
Contig375	Fickett four	nd Glimmer	not found	Fickett found Glimmer not found		
Contig376	69.04%	15.02%	15.94%	37.40%	21.07%	41.53%
Contig377	84.21%	8.29%	7.50%	51.98%	0.00%	48.02%
Contig378	52.81%	17.16%	30.03%	26.36%	9.20%	64.43%
Contig379	33.08%	66.92%	0.00%	14.81%	59.26%	25.93%
Contig380	74.44%	25.56%	0.00%	Glimmer f	ound Ficket	t not found
Contig381	56.51%	25.99%	17.50%	36.91%	47.81%	15.28%
Contig382	70.83%	22.95%	6.22%	69.04%	5.91%	25.05%
Contig383	93.15%	3.67%	3.18%	56.69%	3.19%	40.12%
Contig384	Fickett fou	nd Glimmei	not found	Fickett fou	nd Glimme	not found
Contig385	Fickett fou	nd Glimmei	not found	Fickett fou	nd Glimme	not found
Contig386	35.59%	53.69%	10.71%	Glimmer f	ound Ficket	t not found
Contig387	45.41%	36.98%	17.62%	15.93%	35.20%	48.87%
Contig388	71.03%	12.68%	16.29%	58.69%	6.13%	35.18%

Name	Wir	ndows size 2	200	Wir	ndows size 5	500	
	found	over	under	found	over	under	
Contig389	77.91%	2.82%	19.27%	80.18%	1.73%	18.09%	
Contig390	39.81%	44.55%	15.64%	18.69%	39.47%	41.84%	
Contig391	57.56%	14.89%	27.56%	44.53%	17.28%	38.20%	
Contig392	63.01%	36.99%	0.00%	47.79%	17.60%	34.62%	
Contig393	12.65%	87.35%	0.00%	29.42%	70.58%	0.00%	
Contig394	53.78%	23.67%	22.55%	63.69%	4.51%	31.80%	
Contig395	Fickett four	nd Glimmer	not found	Fickett fou	nd Glimmer	not found	
Contig396	21.22%	73.98%	4.80%	13.42%	74.48%	12.10%	
Contig398	22.04%	30.01%	47.95%	Both for	und but not	overlap	
Contig399	35.08%	54.19%	10.73%	11.52%	41.78%	46.70%	
Contig400	38.59%	49.05%	12.36%	23.47%	25.22%	51.31%	
Contig401	63.72%	24.02%	12.27%	57.13%	14.30%	28.57%	
Contig402	53.71%	38.45%	7.84%	39.36%	22.15%	38.49%	
Contig403	35.87%	51.36%	12.76%	36.83%	31.90%	31.28%	
Contig404	81.40%	16.13%	2.47%	84.88%	0.00%	15.12%	
Contig405	58.50%	26.08%	15.43%	18.92%	17.70%	63.38%	
Contig406	Fickett four	nd Glimmer	not found	Fickett found Glimmer not found			
Contig407	Fickett four	nd Glimmer	not found	Fickett fou	nd Glimmer	not found	
Contig408	40.34%	36.20%	23.46%	25.93%	11.88%	62.19%	
Contig409	44.80%	55.20%	0.00%	38.62%	53.24%	8.14%	
Contig410	23.94%	27.58%	48.48%	29.80%	32.92%	37.28%	
Contig411	44.63%	55.37%	0.00%	18.74%	43.49%	37.77%	
Contig412	35.63%	34.98%	29.39%	35.06%	28.86%	36.08%	
Contig413	Both for	and but not	overlap	Both for	und but not	overlap	
Contig414	Fickett four	nd Glimmei	not found	Fickett fou	Fickett found Glimmer not found		
Contig415	68.52%	10.73%	20.75%	12.12%	0.18%	87.69%	
Contig416	Fickett four	nd Glimmer	not found	Fickett fou	nd Glimmer	not found	

Name	Win	ndows size 2	200	Win	ndows size 5	000
	found	over	under	found	over	under
Contig417	68.35%	9.76%	21.89%	66.73%	0.00%	33.27%
Contig418	41.21%	54.97%	3.82%	42.38%	25.80%	31.82%
Contig419	Fickett fou	nd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig420	Fickett fou	nd Glimme	not found	В	oth not foun	d
Contig421	62.68%	35.76%	1.56%	50.70%	17.93%	31.37%
Contig422	66.28%	13.31%	20.40%	33.37%	2.53%	64.10%
Contig423	Fickett fou	nd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig424	Fickett fou	nd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig425	75.17%	18.41%	6.42%	60.35%	9.35%	30.30%
Contig426	16.30%	38.37%	45.33%	Both fo	und but not	overlap
Contig427	68.21%	30.45%	1.33%	56.57%	32.26%	11.17%
Contig428	42.60%	18.85%	38.55%	44.36%	17.48%	38.16%
Contig429	Fickett fou	nd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig430	75.67%	11.30%	13.02%	48.50%	11.71%	39.79%
Contig431	40.55%	13.72%	45.73%	Both fo	und but not	overlap
Contig432	63.00%	22.36%	14.64%	46.78%	18.72%	34.50%
Contig433	73.79%	12.41%	13.79%	Both fo	und but not	overlap
Contig434	39.51%	53.69%	6.80%	48.76%	0.00%	51.24%
Contig435	73.25%	2.79%	23.95%	47.61%	0.43%	51.97%
Contig436	79.95%	11.78%	8.27%	64.14%	1.07%	34.79%
Contig437	Fickett fou	nd Glimme	not found	В	oth not foun	d
Contig438	60.82%	34.87%	4.31%	31.26%	51.76%	16.99%
Contig439	75.46%	10.85%	13.69%	46.78%	6.00%	47.23%
Contig440	42.01%	44.75%	13.24%	Both fo	und but not	overlap
Contig441	35.33%	3.30%	61.37%	1.98%	32.96%	65.06%
Contig442	76.38%	19.78%	3.84%	56.94%	9.35%	33.72%
Contig443	20.62%	54.98%	24.40%	Both fo	und but not	overlap

Name	Win	ndows size 2	200	Wir	ndows size 5	500
	found	over	under	found	over	under
Contig444	33.05%	27.79%	39.15%	Glimmer fo	ound Fickett	not found
Contig446	50.68%	44.16%	5.16%	54.86%	28.84%	16.30%
Contig447	81.57%	15.49%	2.94%	39.97%	27.84%	32.19%
Contig448	64.04%	27.83%	8.13%	64.47%	19.81%	15.72%
Contig449	51.04%	48.30%	0.66%	49.79%	37.18%	13.03%
Contig450	24.38%	70.65%	4.97%	27.11%	61.91%	10.98%
Contig451	54.89%	31.83%	13.28%	34.14%	12.71%	53.14%
Contig452	39.23%	52.60%	8.16%	29.53%	35.24%	35.23%
Contig453	75.90%	19.54%	4.56%	41.44%	15.10%	43.46%
Contig454	54.21%	28.49%	17.30%	39.64%	19.98%	40.38%
Contig456	11.25%	88.75%	0.00%	Both found but not overlap		
Contig457	Both for	und but not	overlap	Both found but not overlap		
Contig458	62.70%	14.35%	22.95%	42.48%	3.86%	53.66%
Contig459	15.99%	60.17%	23.84%	35.65%	62.90%	1.45%
Contig460	46.97%	45.20%	7.84%	67.99%	17.59%	14.42%
Contig461	18.54%	41.51%	39.96%	Both for	and but not	overlap
Contig462	64.10%	13.69%	22.21%	42.19%	8.47%	49.34%
Contig463	Fickett fou	nd Glimmer	not found	Fickett four	nd Glimmer	not found
Contig464	48.41%	23.34%	28.25%	41.99%	11.14%	46.87%
Contig465	61.56%	34.09%	4.35%	48.13%	7.05%	44.81%
Contig466	53.49%	27.59%	18.92%	42.64%	30.75%	26.61%
Contig467	71.56%	17.74%	10.71%	53.01%	23.70%	23.29%
Contig468	46.42%	7.94%	45.64%	52.47%	0.00%	47.53%
Contig469	Fickett fou	nd Glimmei	not found	Fickett four	nd Glimmer	not found
Contig470	39.36%	31.17%	29.48%	41.86%	46.51%	11.63%
Contig471	36.86%	44.36%	18.78%	51.88%	20.07%	28.05%
Contig471_ABD	Fickett fou	nd Glimmer	not found	В	oth not foun	d

Name	Win	ndows size 2	200	Win	ndows size 5	500
	found	over	under	found	over	under
Contig472	61.82%	19.55%	18.63%	67.56%	4.45%	28.00%
Contig473	3.90%	84.85%	11.26%	Glimmer fo	ound Fickett	not found
Contig474	60.09%	26.85%	13.06%	51.44%	22.18%	26.37%
Contig475	45.57%	45.99%	8.44%	40.08%	34.65%	25.28%
Contig476	42.19%	44.44%	13.37%	14.53%	41.51%	43.95%
Contig477	24.15%	74.77%	1.08%	27.42%	63.66%	8.92%
Contig478	62.20%	33.07%	4.73%	31.06%	33.42%	35.51%
Contig479	47.10%	33.46%	19.44%	61.15%	6.75%	32.10%
Contig480	31.09%	54.66%	14.26%	65.25%	20.19%	14.55%
Contig481	59.19%	36.63%	4.18%	45.27%	26.31%	28.41%
Contig482	84.38%	13.84%	1.79%	25.00%	40.43%	34.57%
Contig483	41.62%	47.16%	11.22%	42.67%	45.78%	11.56%
Contig484	63.58%	32.32%	4.10%	52.79%	18.70%	28.51%
Contig485	88.34%	6.40%	5.26%	59.34%	9.01%	31.65%
Contig486	43.32%	35.30%	21.38%	24.07%	23.96%	51.97%
Contig487	62.55%	23.00%	14.46%	41.35%	17.64%	41.01%
Contig488	39.01%	17.64%	43.36%	56.85%	4.88%	38.27%
Contig489	62.62%	0.00%	37.38%	Both for	und but not	overlap
Contig490	19.62%	57.93%	22.45%	19.29%	80.49%	0.22%
Contig491	35.22%	48.83%	15.95%	41.34%	38.09%	20.57%
Contig492	Fickett fou	nd Glimmer	not found	Fickett fou	nd Glimmer	not found
Contig493	52.53%	41.77%	5.71%	64.45%	9.99%	25.55%
Contig494	49.28%	31.65%	19.06%	49.86%	29.23%	20.91%
Contig495	60.22%	24.80%	14.98%	58.78%	14.53%	26.69%
Contig496	41.21%	43.19%	15.60%	23.80%	18.86%	57.34%
Contig497	44.28%	38.94%	16.78%	30.04%	27.73%	42.22%
Contig498	42.74%	25.13%	32.13%	Both for	und but not	overlap

Name	Wii	ndows size 2	200	Wir	ndows size 5	00
	found	over	under	found	over	under
Contig499	81.65%	5.48%	12.87%	67.70%	4.00%	28.30%
Contig500	48.95%	43.75%	7.30%	30.27%	26.88%	42.85%
Contig501	67.92%	25.90%	6.18%	75.33%	11.19%	13.48%
Contig502	32.99%	41.14%	25.86%	34.41%	15.52%	50.07%
Contig503	77.51%	15.41%	7.08%	2.17%	26.77%	71.06%
Contig504	54.57%	35.49%	9.94%	42.64%	0.00%	57.36%
Contig505	55.23%	25.63%	19.13%	46.44%	11.71%	41.84%
Contig506	37.52%	40.90%	21.58%	28.52%	37.46%	34.02%
Contig507	39.29%	49.66%	11.05%	44.36%	29.29%	26.36%
Contig508	51.68%	34.67%	13.65%	49.39%	24.12%	26.49%
Contig509	46.42%	31.25%	22.33%	39.52%	25.11%	35.37%
Contig510	56.65%	30.87%	12.49%	44.57%	28.05%	27.38%
Contig511	23.43%	47.13%	29.45%	8.60%	51.52%	39.88%
Contig512	75.62%	18.37%	6.01%	56.23%	20.85%	22.92%
Contig513	27.94%	42.10%	29.96%	12.46%	80.75%	6.79%
Contig514	68.44%	15.85%	15.72%	44.69%	14.50%	40.81%
Contig515	53.12%	41.44%	5.44%	52.31%	20.48%	27.21%
Contig516	35.58%	33.67%	30.76%	30.50%	37.06%	32.43%
Contig517	63.22%	23.87%	12.90%	43.87%	21.28%	34.86%
Contig518	65.24%	21.48%	13.28%	51.92%	15.61%	32.47%
Contig520	74.16%	7.62%	18.22%	50.72%	14.04%	35.24%
Contig521	39.19%	41.18%	19.63%	43.51%	29.09%	27.40%
Contig522	22.28%	77.72%	0.00%	15.81%	47.84%	36.34%
Contig523	Fickett fou	nd Glimmei	not found	Fickett four	nd Glimmer	not found
Contig524	49.18%	34.44%	16.37%	37.52%	31.53%	30.95%
Contig525	50.16%	46.33%	3.51%	35.20%	42.65%	22.15%
Contig526	23.98%	76.02%	0.00%	Both for	and but not o	overlap

Name	Windows size 200			Windows size 500		
	found	over	under	found	over	under
Contig527	57.72%	13.07%	29.21%	49.62%	8.08%	42.30%
Contig528	36.51%	49.17%	14.32%	39.76%	21.22%	39.02%
Contig529	20.81%	62.99%	16.20%	33.15%	50.73%	16.12%
Contig530	52.18%	35.09%	12.73%	47.07%	27.19%	25.73%
Contig531	49.06%	33.53%	17.41%	39.80%	33.47%	26.72%
Contig532	52.76%	25.40%	21.84%	46.62%	15.00%	38.38%
Contig533	64.80%	31.84%	3.36%	41.82%	21.89%	36.29%
Contig534	63.73%	6.21%	30.06%	36.68%	2.61%	60.71%
Contig535	56.40%	19.51%	24.09%	48.27%	22.82%	28.91%
Contig536	56.55%	25.70%	17.75%	28.88%	37.66%	33.46%
Contig537	42.80%	42.95%	14.25%	35.79%	26.54%	37.67%
Contig538	74.70%	8.99%	16.31%	53.95%	1.26%	44.78%
Contig539	56.91%	26.38%	16.71%	42.07%	25.08%	32.85%
Contig540	87.19%	4.89%	7.92%	64.86%	3.65%	31.49%
Contig541	55.41%	15.02%	29.57%	25.50%	11.88%	62.63%
Contig542	65.59%	28.05%	6.36%	74.86%	14.89%	10.25%
Contig543	Both found but not overlap			Both found but not overlap		
Contig544	55.33%	30.55%	14.12%	37.82%	32.54%	29.64%
Contig545	40.15%	46.99%	12.85%	34.28%	26.53%	39.20%
Contig546	5.25%	94.75%	0.00%	3.41%	95.59%	1.00%
Contig547	46.56%	47.62%	5.82%	38.12%	43.94%	17.94%
Contig548	64.79%	14.72%	20.49%	49.55%	9.09%	41.36%
Contig549	72.89%	13.95%	13.16%	54.83%	14.69%	30.49%
Contig550	58.79%	29.12%	12.08%	43.58%	27.15%	29.27%
Average	52.12%	33.18%	14.70%	51.55%	22.16%	26.29%

ประวัติผู้เขียน

ชื่อ – สกุล

นาย ภานุรุจ เรื่องวิเศษ

วัน เดือน ปีเกิด

22 กันยายน 2524

ประวัติการศึกษา

พ.ศ. 2538

สำเร็จการศึกษาระดับมัธยมศึกษาตอนต้น

โรงเรียนรัตภูมิวิทยา จังหวัดสงขลา

พ.ศ. 2541

สำเร็จการศึกษาระดับมัธยมศึกษาตอนปลาย

โรงเรียนรัตภูมิวิทยา จังหวัดสงขลา

พ.ศ. 2546

สำเร็จการศึกษาระดับปริญญาตรี วิทยาศาสตรบัณฑิต

วิชาเอกวิทยาการคอมพิวเตอร์ คณะวิทยาศาสตร์

มหาวิทยาลัยแม่โจ้ จังหวัดเชียงใหม่

ผลงานวิจัย

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