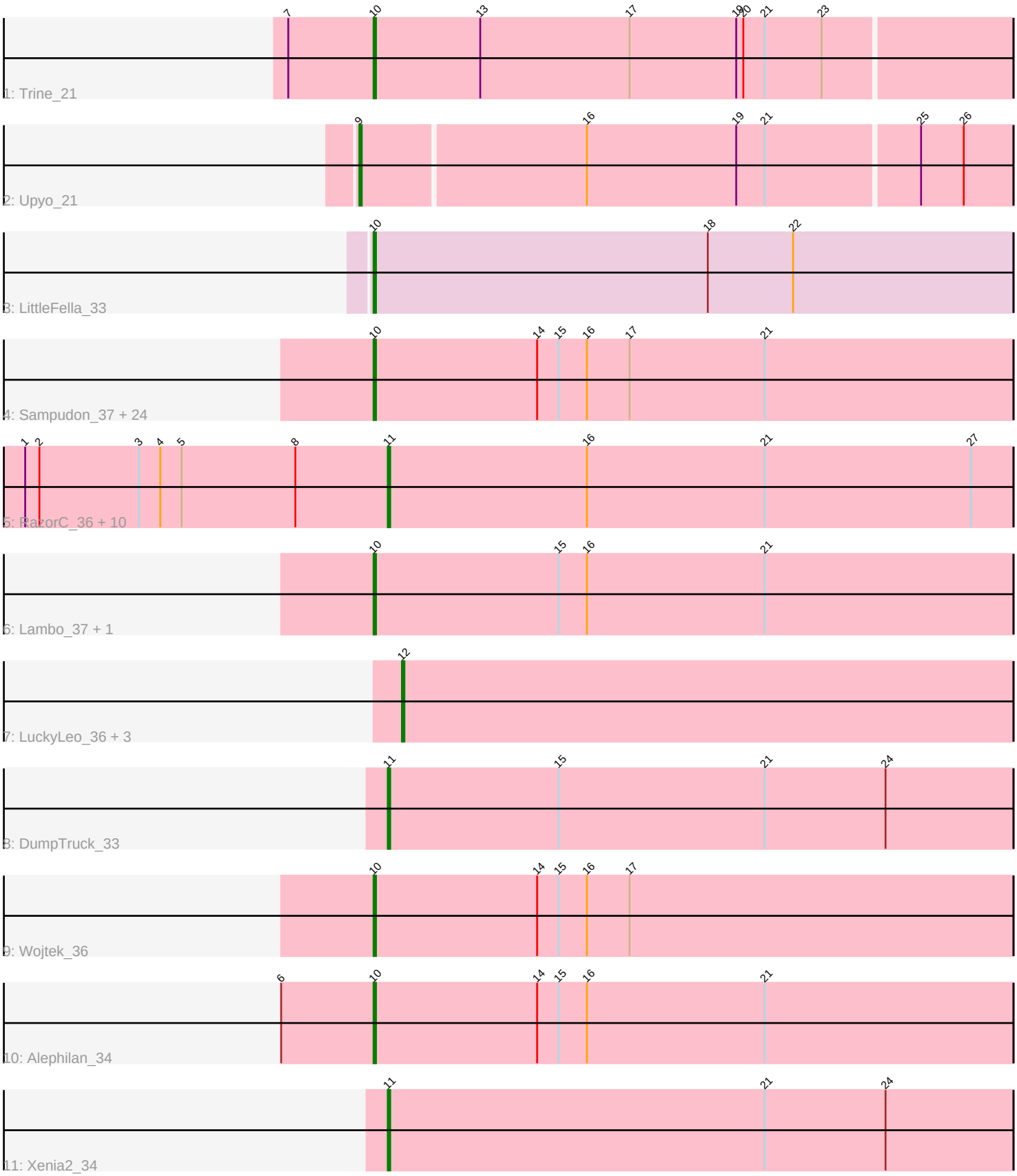
Pham 347726


7
10
13
17
19
20
21
23
1: Trine_21
9
16
19
21
25
26
2: Upyo_21
10
18
22
3: LittleFella_33
10
14
15
16
17
21
4: Sampudon_37 + 24
1
2
3
4
5
8
11
16
21
27
5: RazorC_36 + 10
10
15
16
21
6: Lambo_37 + 1
12
7: LuckyLeo_36 + 3
11
15
21
24
8: DumpTruck_33
10
14
15
16
17
9: Wojtek_36
6
10
14
15
16
21
10: Alephilan_34
11
21
24
11: Xenia2_34

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 347726 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347726 has 49 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Trine_21
• Track 2 : Upyo_21
• Track 3 : LittleFella_33
• Track 4 : Sampudon_37, MoiGyank_39, BirthdayBoy_38, Patos_38, NorManre_38, Yikes_38, ParvusTarda_37, Rota_36, Jalebi_36, LavAbarElk_35, DoobyDoo_36, GOATification_38, Fulcrum_38, Ranch_37, Erutan_37, Zany_36, GretelLyn_37, Rukungu_37, Mima20_35, Gibbin_38, Nettle_38, Lila22_36, Pywacket_36, Sadboi_38, OtterstedtS21_37
• Track 5 : RazorC_36, NovaSharks_37, Charminar_35, Jamemuya19_35, Rumi_37, Astralis_35, Genamy16_38, Alyssamiracle_38, Riduram_35, Stormer_36, Avian_35
• Track 6 : Lambo_37, DaviePasture_37
• Track 7 : LuckyLeo_36, Tillicus_36, Apeppi_34, Aaravos_34
• Track 8 : DumpTruck_33
• Track 9 : Wojtek_36
• Track 10 : Alephilan_34
• Track 11 : Xenia2_34

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 10, it was called in 26 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alephilan_34, BirthdayBoy_38, DaviePasture_37, DoobyDoo_36, Erutan_37, Fulcrum_38, GOATification_38, Gibbin_38, GretelLyn_37, Jalebi_36, Lambo_37, LavAbarElk_35, Lila22_36, LittleFella_33, Mima20_35, MoiGyank_39, Nettle_38, NorManre_38, OtterstedtS21_37, ParvusTarda_37, Patos_38, Pywacket_36, Ranch_37, Rota_36, Rukungu_37, Sadboi_38, Sampudon_37, Trine_21, Wojtek_36, Yikes_38, Zany_36,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:

• Aaravos_34, Alyssamiracle_38, Apeppi_34, Astralis_35, Avian_35, Charminar_35, DumpTruck_33, Genamy16_38, Jamemuya19_35, LuckyLeo_36, NovaSharks_37, RazorC_36, Riduram_35, Rumi_37, Stormer_36, Tillicus_36, Upyo_21, Xenia2_34,

Summary by start number:

Start 9:
• Found in 1 of 49 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Upyo_21 (CD),

Start 10:
• Found in 31 of 49 (63.3%) of genes in pham
• Manual Annotations of this start: 26 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alephilan_34 (DV), BirthdayBoy_38 (DV), DaviePasture_37 (DV), DoobyDoo_36 (DV), Erutan_37 (DV), Fulcrum_38 (DV), GOATification_38 (DV), Gibbin_38 (DV), GretelLyn_37 (DV), Jalebi_36 (DV), Lambo_37 (DV), LavAbarElk_35 (DV), Lila22_36 (DV), LittleFella_33 (DG2), Mima20_35 (DV), MoiGyank_39 (DV), Nettle_38 (DV), NorManre_38 (DV), OtterstedtS21_37 (DV), ParvusTarda_37 (DV), Patos_38 (DV), Pywacket_36 (DV), Ranch_37 (DV), Rota_36 (DV), Rukungu_37 (DV), Sadboi_38 (DV), Sampudon_37 (DV), Trine_21 (CD), Wojtek_36 (DV), Yikes_38 (DV), Zany_36 (DV),

Start 11:
• Found in 13 of 49 (26.5%) of genes in pham
• Manual Annotations of this start: 13 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alyssamiracle_38 (DV), Astralis_35 (DV), Avian_35 (DV), Charminar_35 (DV), DumpTruck_33 (DV), Genamy16_38 (DV), Jamemuya19_35 (DV), NovaSharks_37 (DV), RazorC_36 (DV), Riduram_35 (DV), Rumi_37 (DV), Stormer_36 (DV), Xenia2_34 (DV),

Start 12:
• Found in 4 of 49 (8.2%) of genes in pham
• Manual Annotations of this start: 3 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aaravos_34 (DV), Apeppi_34 (DV), LuckyLeo_36 (DV), Tillicus_36 (DV),

Summary by clusters:

There are 3 clusters represented in this pham: DV, DG2, CD,

Info for manual annotations of cluster CD:
•Start number 9 was manually annotated 1 time for cluster CD.
•Start number 10 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DG2:
•Start number 10 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DV:

•Start number 10 was manually annotated 24 times for cluster DV.
•Start number 11 was manually annotated 13 times for cluster DV.
•Start number 12 was manually annotated 3 times for cluster DV.

Gene Information:

Gene: Aaravos_34 Start: 31672, Stop: 31929, Start Num: 12
Candidate Starts for Aaravos_34:
(Start: 12 @31672 has 3 MA's),

Gene: Alephilan_34 Start: 31540, Stop: 31809, Start Num: 10
Candidate Starts for Alephilan_34:
(6, 31501), (Start: 10 @31540 has 26 MA's), (14, 31609), (15, 31618), (16, 31630), (21, 31705),

Gene: Alyssamiracle_38 Start: 30640, Stop: 30903, Start Num: 11
Candidate Starts for Alyssamiracle_38:
(1, 30487), (2, 30493), (3, 30535), (4, 30544), (5, 30553), (8, 30601), (Start: 11 @30640 has 13 MA's), (16, 30724), (21, 30799), (27, 30886),

Gene: Apeppi_34 Start: 31734, Stop: 31991, Start Num: 12
Candidate Starts for Apeppi_34:
(Start: 12 @31734 has 3 MA's),

Gene: Astralis_35 Start: 30230, Stop: 30493, Start Num: 11
Candidate Starts for Astralis_35:
(1, 30077), (2, 30083), (3, 30125), (4, 30134), (5, 30143), (8, 30191), (Start: 11 @30230 has 13 MA's), (16, 30314), (21, 30389), (27, 30476),

Gene: Avian_35 Start: 30622, Stop: 30885, Start Num: 11
Candidate Starts for Avian_35:
(1, 30469), (2, 30475), (3, 30517), (4, 30526), (5, 30535), (8, 30583), (Start: 11 @30622 has 13 MA's), (16, 30706), (21, 30781), (27, 30868),

Gene: BirthdayBoy_38 Start: 32363, Stop: 32632, Start Num: 10
Candidate Starts for BirthdayBoy_38:
(Start: 10 @32363 has 26 MA's), (14, 32432), (15, 32441), (16, 32453), (17, 32471), (21, 32528),

Gene: Charminar_35 Start: 30233, Stop: 30496, Start Num: 11
Candidate Starts for Charminar_35:
(1, 30080), (2, 30086), (3, 30128), (4, 30137), (5, 30146), (8, 30194), (Start: 11 @30233 has 13 MA's), (16, 30317), (21, 30392), (27, 30479),

Gene: DaviePasture_37 Start: 32167, Stop: 32436, Start Num: 10
Candidate Starts for DaviePasture_37:
(Start: 10 @32167 has 26 MA's), (15, 32245), (16, 32257), (21, 32332),

Gene: DoobyDoo_36 Start: 31314, Stop: 31583, Start Num: 10
Candidate Starts for DoobyDoo_36:
(Start: 10 @31314 has 26 MA's), (14, 31383), (15, 31392), (16, 31404), (17, 31422), (21, 31479),

Gene: DumpTruck_33 Start: 29688, Stop: 29951, Start Num: 11

Candidate Starts for DumpTruck_33:
(Start: 11 @29688 has 13 MA's), (15, 29760), (21, 29847), (24, 29898),

Gene: Erutan_37 Start: 31822, Stop: 32091, Start Num: 10
Candidate Starts for Erutan_37:
(Start: 10 @31822 has 26 MA's), (14, 31891), (15, 31900), (16, 31912), (17, 31930), (21, 31987),

Gene: Fulcrum_38 Start: 32343, Stop: 32612, Start Num: 10
Candidate Starts for Fulcrum_38:
(Start: 10 @32343 has 26 MA's), (14, 32412), (15, 32421), (16, 32433), (17, 32451), (21, 32508),

Gene: GOATification_38 Start: 32343, Stop: 32612, Start Num: 10
Candidate Starts for GOATification_38:
(Start: 10 @32343 has 26 MA's), (14, 32412), (15, 32421), (16, 32433), (17, 32451), (21, 32508),

Gene: Genamy16_38 Start: 30640, Stop: 30903, Start Num: 11
Candidate Starts for Genamy16_38:
(1, 30487), (2, 30493), (3, 30535), (4, 30544), (5, 30553), (8, 30601), (Start: 11 @30640 has 13 MA's), (16, 30724), (21, 30799), (27, 30886),

Gene: Gibbin_38 Start: 32441, Stop: 32710, Start Num: 10
Candidate Starts for Gibbin_38:
(Start: 10 @32441 has 26 MA's), (14, 32510), (15, 32519), (16, 32531), (17, 32549), (21, 32606),

Gene: GretelLyn_37 Start: 32707, Stop: 32976, Start Num: 10
Candidate Starts for GretelLyn_37:
(Start: 10 @32707 has 26 MA's), (14, 32776), (15, 32785), (16, 32797), (17, 32815), (21, 32872),

Gene: Jalebi_36 Start: 32876, Stop: 33145, Start Num: 10
Candidate Starts for Jalebi_36:
(Start: 10 @32876 has 26 MA's), (14, 32945), (15, 32954), (16, 32966), (17, 32984), (21, 33041),

Gene: Jamemuya19_35 Start: 30230, Stop: 30493, Start Num: 11
Candidate Starts for Jamemuya19_35:
(1, 30077), (2, 30083), (3, 30125), (4, 30134), (5, 30143), (8, 30191), (Start: 11 @30230 has 13 MA's), (16, 30314), (21, 30389), (27, 30476),

Gene: Lambo_37 Start: 32361, Stop: 32630, Start Num: 10
Candidate Starts for Lambo_37:
(Start: 10 @32361 has 26 MA's), (15, 32439), (16, 32451), (21, 32526),

Gene: LavAbarElk_35 Start: 30815, Stop: 31084, Start Num: 10
Candidate Starts for LavAbarElk_35:
(Start: 10 @30815 has 26 MA's), (14, 30884), (15, 30893), (16, 30905), (17, 30923), (21, 30980),

Gene: Lila22_36 Start: 32316, Stop: 32585, Start Num: 10
Candidate Starts for Lila22_36:
(Start: 10 @32316 has 26 MA's), (14, 32385), (15, 32394), (16, 32406), (17, 32424), (21, 32481),

Gene: LittleFella_33 Start: 29876, Stop: 30145, Start Num: 10
Candidate Starts for LittleFella_33:
(Start: 10 @29876 has 26 MA's), (18, 30017), (22, 30053),

Gene: LuckyLeo_36 Start: 31734, Stop: 31991, Start Num: 12
Candidate Starts for LuckyLeo_36:
(Start: 12 @31734 has 3 MA's),

Gene: Mima20_35 Start: 32065, Stop: 32334, Start Num: 10
Candidate Starts for Mima20_35:
(Start: 10 @32065 has 26 MA's), (14, 32134), (15, 32143), (16, 32155), (17, 32173), (21, 32230),

Gene: MoiGyank_39 Start: 32746, Stop: 33015, Start Num: 10
Candidate Starts for MoiGyank_39:
(Start: 10 @32746 has 26 MA's), (14, 32815), (15, 32824), (16, 32836), (17, 32854), (21, 32911),

Gene: Nettle_38 Start: 32600, Stop: 32869, Start Num: 10
Candidate Starts for Nettle_38:
(Start: 10 @32600 has 26 MA's), (14, 32669), (15, 32678), (16, 32690), (17, 32708), (21, 32765),

Gene: NorManre_38 Start: 31952, Stop: 32221, Start Num: 10
Candidate Starts for NorManre_38:
(Start: 10 @31952 has 26 MA's), (14, 32021), (15, 32030), (16, 32042), (17, 32060), (21, 32117),

Gene: NovaSharks_37 Start: 30230, Stop: 30493, Start Num: 11
Candidate Starts for NovaSharks_37:
(1, 30077), (2, 30083), (3, 30125), (4, 30134), (5, 30143), (8, 30191), (Start: 11 @30230 has 13 MA's), (16, 30314), (21, 30389), (27, 30476),

Gene: OtterstedtS21_37 Start: 32023, Stop: 32292, Start Num: 10
Candidate Starts for OtterstedtS21_37:
(Start: 10 @32023 has 26 MA's), (14, 32092), (15, 32101), (16, 32113), (17, 32131), (21, 32188),

Gene: ParvusTarda_37 Start: 31491, Stop: 31760, Start Num: 10
Candidate Starts for ParvusTarda_37:
(Start: 10 @31491 has 26 MA's), (14, 31560), (15, 31569), (16, 31581), (17, 31599), (21, 31656),

Gene: Patos_38 Start: 31952, Stop: 32221, Start Num: 10
Candidate Starts for Patos_38:
(Start: 10 @31952 has 26 MA's), (14, 32021), (15, 32030), (16, 32042), (17, 32060), (21, 32117),

Gene: Pywacket_36 Start: 32837, Stop: 33106, Start Num: 10
Candidate Starts for Pywacket_36:
(Start: 10 @32837 has 26 MA's), (14, 32906), (15, 32915), (16, 32927), (17, 32945), (21, 33002),

Gene: Ranch_37 Start: 30849, Stop: 31118, Start Num: 10
Candidate Starts for Ranch_37:
(Start: 10 @30849 has 26 MA's), (14, 30918), (15, 30927), (16, 30939), (17, 30957), (21, 31014),

Gene: RazorC_36 Start: 30622, Stop: 30885, Start Num: 11
Candidate Starts for RazorC_36:
(1, 30469), (2, 30475), (3, 30517), (4, 30526), (5, 30535), (8, 30583), (Start: 11 @30622 has 13 MA's), (16, 30706), (21, 30781), (27, 30868),

Gene: Riduram_35 Start: 30200, Stop: 30463, Start Num: 11
Candidate Starts for Riduram_35:

(1, 30047), (2, 30053), (3, 30095), (4, 30104), (5, 30113), (8, 30161), (Start: 11 @30200 has 13 MA's), (16, 30284), (21, 30359), (27, 30446),

Gene: Rota_36 Start: 32232, Stop: 32501, Start Num: 10
Candidate Starts for Rota_36:
(Start: 10 @32232 has 26 MA's), (14, 32301), (15, 32310), (16, 32322), (17, 32340), (21, 32397),

Gene: Rukungu_37 Start: 32541, Stop: 32810, Start Num: 10
Candidate Starts for Rukungu_37:
(Start: 10 @32541 has 26 MA's), (14, 32610), (15, 32619), (16, 32631), (17, 32649), (21, 32706),

Gene: Rumi_37 Start: 30233, Stop: 30496, Start Num: 11
Candidate Starts for Rumi_37:
(1, 30080), (2, 30086), (3, 30128), (4, 30137), (5, 30146), (8, 30194), (Start: 11 @30233 has 13 MA's), (16, 30317), (21, 30392), (27, 30479),

Gene: Sadboi_38 Start: 32708, Stop: 32977, Start Num: 10
Candidate Starts for Sadboi_38:
(Start: 10 @32708 has 26 MA's), (14, 32777), (15, 32786), (16, 32798), (17, 32816), (21, 32873),

Gene: Sampudon_37 Start: 32876, Stop: 33145, Start Num: 10
Candidate Starts for Sampudon_37:
(Start: 10 @32876 has 26 MA's), (14, 32945), (15, 32954), (16, 32966), (17, 32984), (21, 33041),

Gene: Stormer_36 Start: 30236, Stop: 30499, Start Num: 11
Candidate Starts for Stormer_36:
(1, 30083), (2, 30089), (3, 30131), (4, 30140), (5, 30149), (8, 30197), (Start: 11 @30236 has 13 MA's), (16, 30320), (21, 30395), (27, 30482),

Gene: Tillicus_36 Start: 31328, Stop: 31585, Start Num: 12
Candidate Starts for Tillicus_36:
(Start: 12 @31328 has 3 MA's),

Gene: Trine_21 Start: 18018, Stop: 18284, Start Num: 10
Candidate Starts for Trine_21:
(7, 17982), (Start: 10 @18018 has 26 MA's), (13, 18063), (17, 18126), (19, 18171), (20, 18174), (21, 18183), (23, 18207),

Gene: Upyo_21 Start: 18233, Stop: 18502, Start Num: 9
Candidate Starts for Upyo_21:
(Start: 9 @18233 has 1 MA's), (16, 18326), (19, 18389), (21, 18401), (25, 18464), (26, 18482),

Gene: Wojtek_36 Start: 31575, Stop: 31844, Start Num: 10
Candidate Starts for Wojtek_36:
(Start: 10 @31575 has 26 MA's), (14, 31644), (15, 31653), (16, 31665), (17, 31683),

Gene: Xenia2_34 Start: 29733, Stop: 29996, Start Num: 11
Candidate Starts for Xenia2_34:
(Start: 11 @29733 has 13 MA's), (21, 29892), (24, 29943),

Gene: Yikes_38 Start: 32955, Stop: 33224, Start Num: 10
Candidate Starts for Yikes_38:
(Start: 10 @32955 has 26 MA's), (14, 33024), (15, 33033), (16, 33045), (17, 33063), (21, 33120),

Gene: Zany_36 Start: 32480, Stop: 32749, Start Num: 10
Candidate Starts for Zany_36:
(Start: 10 @32480 has 26 MA's), (14, 32549), (15, 32558), (16, 32570), (17, 32588), (21, 32645),