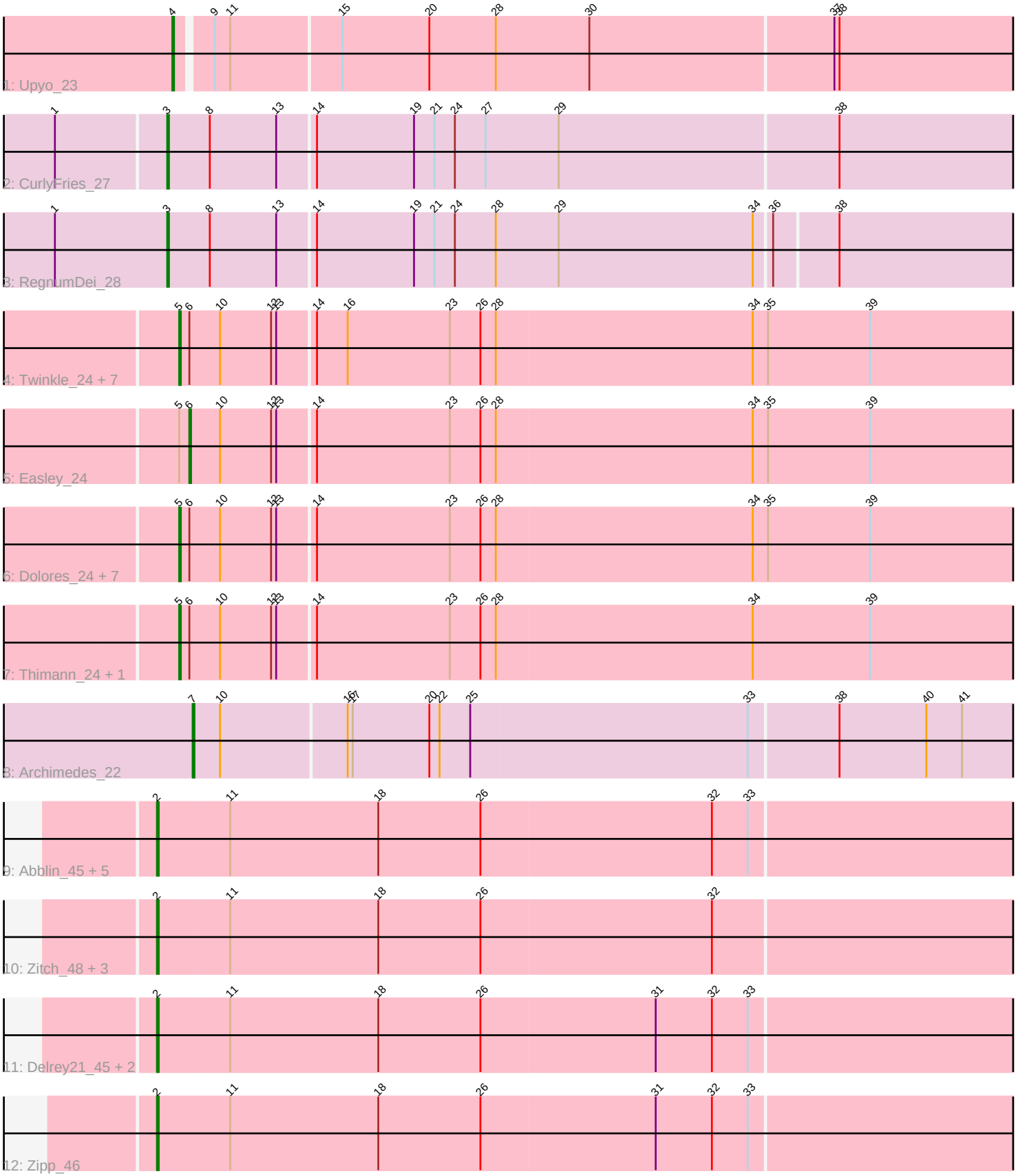
Pham 294903


1: Upyo_23
2: CurlyFries_27
3: RegnumDei_28
4: Twinkle_24 + 7
5: Easley_24
6: Dolores_24 + 7
7: Thimann_24 + 1
8: Archimedes_22
9: Abblin_45 + 5
10: Zitch_48 + 3
11: Delrey21_45 + 2
12: Zipp_46

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 294903 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294903 has 37 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Upyo_23
• Track 2 : CurlyFries_27
• Track 3 : RegnumDei_28
• Track 4 : Twinkle_24, Shlim410_24, Howe_24, Beenie_24, Sekhmet_24, Hortense_24, Adora_24, Annalisa_24
• Track 5 : Easley_24
• Track 6 : Dolores_24, Samman98_24, MichaelScott_24, DobbysSock_23, Mcklovin_24, WinkNick_24, Clark_24, Oregano_24
• Track 7 : Thimann_24, Suerte_22
• Track 8 : Archimedes_22
• Track 9 : Abblin_45, Scioto_46, Natkenzie_45, ViaConlectus_45, Sampson_45, Tardus_46
• Track 10 : Zitch_48, APunk_46, BigHunkinEater_47, Pumpkiney_46
• Track 11 : Delrey21_45, Verity_45, DoctorFroggo_45
• Track 12 : Zipp_46

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

The start number called the most often in the published annotations is 5, it was called in 18 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adora_24, Annalisa_24, Beenie_24, Clark_24, DobbysSock_23, Dolores_24, Hortense_24, Howe_24, Mcklovin_24, MichaelScott_24, Oregano_24, Samman98_24, Sekhmet_24, Shlim410_24, Suerte_22, Thimann_24, Twinkle_24, WinkNick_24,

Genes that have the "Most Annotated" start but do not call it:
• Easley_24,

Genes that do not have the "Most Annotated" start:
• APunk_46, Abblin_45, Archimedes_22, BigHunkinEater_47, CurlyFries_27, Delrey21_45, DoctorFroggo_45, Natkenzie_45, Pumpkiney_46, RegnumDei_28, Sampson_45, Scioto_46, Tardus_46, Upyo_23, Verity_45, ViaConlectus_45,

Zipp_46, Zitch_48,

Summary by start number:

Start 2:
• Found in 14 of 37 (37.8%) of genes in pham
• Manual Annotations of this start: 9 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: APunk_46 (DE4), Abblin_45 (DE4), BigHunkinEater_47 (DE4), Delrey21_45 (DE4), DoctorFroggo_45 (DE4), Natkenzie_45 (DE4), Pumpkiney_46 (DE4), Sampson_45 (DE4), Scioto_46 (DE4), Tardus_46 (DE4), Verity_45 (DE4), ViaConlectus_45 (DE4), Zipp_46 (DE4), Zitch_48 (DE4),

Start 3:
• Found in 2 of 37 (5.4%) of genes in pham
• Manual Annotations of this start: 2 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CurlyFries_27 (CF), RegnumDei_28 (CF),

Start 4:
• Found in 1 of 37 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Upyo_23 (CD),

Start 5:
• Found in 19 of 37 (51.4%) of genes in pham
• Manual Annotations of this start: 18 of 32
• Called 94.7% of time when present
• Phage (with cluster) where this start called: Adora_24 (CZ4), Annalisa_24 (CZ4), Beenie_24 (CZ4), Clark_24 (CZ4), DobbysSock_23 (CZ4), Dolores_24 (CZ4), Hortense_24 (CZ4), Howe_24 (CZ4), Mcklovin_24 (CZ4), MichaelScott_24 (CZ4), Oregano_24 (CZ4), Samman98_24 (CZ4), Sekhmet_24 (CZ4), Shlim410_24 (CZ4), Suerte_22 (CZ4), Thimann_24 (CZ4), Twinkle_24 (CZ4), WinkNick_24 (CZ4),

Start 6:
• Found in 19 of 37 (51.4%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 5.3% of time when present
• Phage (with cluster) where this start called: Easley_24 (CZ4),

Start 7:
• Found in 1 of 37 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Archimedes_22 (DA),

Summary by clusters:

There are 5 clusters represented in this pham: CD, DE4, CF, CZ4, DA,

Info for manual annotations of cluster CD:
•Start number 4 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CF:
•Start number 3 was manually annotated 2 times for cluster CF.

Info for manual annotations of cluster CZ4:
•Start number 5 was manually annotated 18 times for cluster CZ4.
•Start number 6 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster DA:
•Start number 7 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster DE4:
•Start number 2 was manually annotated 9 times for cluster DE4.

Gene Information:

Gene: APunk_46 Start: 39623, Stop: 40141, Start Num: 2
Candidate Starts for APunk_46:
(Start: 2 @39623 has 9 MA's), (11, 39665), (18, 39752), (26, 39812), (32, 39947),

Gene: Abblin_45 Start: 40160, Stop: 40678, Start Num: 2
Candidate Starts for Abblin_45:
(Start: 2 @40160 has 9 MA's), (11, 40202), (18, 40289), (26, 40349), (32, 40484), (33, 40505),

Gene: Adora_24 Start: 21281, Stop: 21787, Start Num: 5
Candidate Starts for Adora_24:
(Start: 5 @21281 has 18 MA's), (Start: 6 @21287 has 1 MA's), (10, 21305), (12, 21335), (13, 21338), (14, 21359), (16, 21377), (23, 21437), (26, 21455), (28, 21464), (34, 21614), (35, 21623), (39, 21683),

Gene: Annalisa_24 Start: 20743, Stop: 21249, Start Num: 5
Candidate Starts for Annalisa_24:
(Start: 5 @20743 has 18 MA's), (Start: 6 @20749 has 1 MA's), (10, 20767), (12, 20797), (13, 20800), (14, 20821), (16, 20839), (23, 20899), (26, 20917), (28, 20926), (34, 21076), (35, 21085), (39, 21145),

Gene: Archimedes_22 Start: 19353, Stop: 19844, Start Num: 7
Candidate Starts for Archimedes_22:
(Start: 7 @19353 has 1 MA's), (10, 19368), (16, 19440), (17, 19443), (20, 19488), (22, 19494), (25, 19512), (33, 19674), (38, 19725), (40, 19776), (41, 19797),

Gene: Beenie_24 Start: 21100, Stop: 21606, Start Num: 5
Candidate Starts for Beenie_24:
(Start: 5 @21100 has 18 MA's), (Start: 6 @21106 has 1 MA's), (10, 21124), (12, 21154), (13, 21157), (14, 21178), (16, 21196), (23, 21256), (26, 21274), (28, 21283), (34, 21433), (35, 21442), (39, 21502),

Gene: BigHunkinEater_47 Start: 39401, Stop: 39919, Start Num: 2
Candidate Starts for BigHunkinEater_47:
(Start: 2 @39401 has 9 MA's), (11, 39443), (18, 39530), (26, 39590), (32, 39725),

Gene: Clark_24 Start: 20743, Stop: 21249, Start Num: 5

Candidate Starts for Clark_24:
(Start: 5 @20743 has 18 MA's), (Start: 6 @20749 has 1 MA's), (10, 20767), (12, 20797), (13, 20800), (14, 20821), (23, 20899), (26, 20917), (28, 20926), (34, 21076), (35, 21085), (39, 21145),

Gene: CurlyFries_27 Start: 25600, Stop: 26106, Start Num: 3
Candidate Starts for CurlyFries_27:
(1, 25537), (Start: 3 @25600 has 2 MA's), (8, 25624), (13, 25663), (14, 25684), (19, 25741), (21, 25753), (24, 25765), (27, 25783), (29, 25825), (38, 25987),

Gene: Delrey21_45 Start: 40925, Stop: 41440, Start Num: 2
Candidate Starts for Delrey21_45:
(Start: 2 @40925 has 9 MA's), (11, 40967), (18, 41054), (26, 41114), (31, 41216), (32, 41249), (33, 41270),

Gene: DobbysSock_23 Start: 20217, Stop: 20723, Start Num: 5
Candidate Starts for DobbysSock_23:
(Start: 5 @20217 has 18 MA's), (Start: 6 @20223 has 1 MA's), (10, 20241), (12, 20271), (13, 20274), (14, 20295), (23, 20373), (26, 20391), (28, 20400), (34, 20550), (35, 20559), (39, 20619),

Gene: DoctorFroggo_45 Start: 40925, Stop: 41440, Start Num: 2
Candidate Starts for DoctorFroggo_45:
(Start: 2 @40925 has 9 MA's), (11, 40967), (18, 41054), (26, 41114), (31, 41216), (32, 41249), (33, 41270),

Gene: Dolores_24 Start: 20719, Stop: 21225, Start Num: 5
Candidate Starts for Dolores_24:
(Start: 5 @20719 has 18 MA's), (Start: 6 @20725 has 1 MA's), (10, 20743), (12, 20773), (13, 20776), (14, 20797), (23, 20875), (26, 20893), (28, 20902), (34, 21052), (35, 21061), (39, 21121),

Gene: Easley_24 Start: 20735, Stop: 21235, Start Num: 6
Candidate Starts for Easley_24:
(Start: 5 @20729 has 18 MA's), (Start: 6 @20735 has 1 MA's), (10, 20753), (12, 20783), (13, 20786), (14, 20807), (23, 20885), (26, 20903), (28, 20912), (34, 21062), (35, 21071), (39, 21131),

Gene: Hortense_24 Start: 21328, Stop: 21834, Start Num: 5
Candidate Starts for Hortense_24:
(Start: 5 @21328 has 18 MA's), (Start: 6 @21334 has 1 MA's), (10, 21352), (12, 21382), (13, 21385), (14, 21406), (16, 21424), (23, 21484), (26, 21502), (28, 21511), (34, 21661), (35, 21670), (39, 21730),

Gene: Howe_24 Start: 21328, Stop: 21834, Start Num: 5
Candidate Starts for Howe_24:
(Start: 5 @21328 has 18 MA's), (Start: 6 @21334 has 1 MA's), (10, 21352), (12, 21382), (13, 21385), (14, 21406), (16, 21424), (23, 21484), (26, 21502), (28, 21511), (34, 21661), (35, 21670), (39, 21730),

Gene: Mcklovin_24 Start: 23497, Stop: 24003, Start Num: 5
Candidate Starts for Mcklovin_24:
(Start: 5 @23497 has 18 MA's), (Start: 6 @23503 has 1 MA's), (10, 23521), (12, 23551), (13, 23554), (14, 23575), (23, 23653), (26, 23671), (28, 23680), (34, 23830), (35, 23839), (39, 23899),

Gene: MichaelScott_24 Start: 21100, Stop: 21606, Start Num: 5
Candidate Starts for MichaelScott_24:
(Start: 5 @21100 has 18 MA's), (Start: 6 @21106 has 1 MA's), (10, 21124), (12, 21154), (13, 21157), (14, 21178), (23, 21256), (26, 21274), (28, 21283), (34, 21433), (35, 21442), (39, 21502),

Gene: Natkenzie_45 Start: 40160, Stop: 40678, Start Num: 2
Candidate Starts for Natkenzie_45:
(Start: 2 @40160 has 9 MA's), (11, 40202), (18, 40289), (26, 40349), (32, 40484), (33, 40505),

Gene: Oregano_24 Start: 20765, Stop: 21271, Start Num: 5
Candidate Starts for Oregano_24:
(Start: 5 @20765 has 18 MA's), (Start: 6 @20771 has 1 MA's), (10, 20789), (12, 20819), (13, 20822), (14, 20843), (23, 20921), (26, 20939), (28, 20948), (34, 21098), (35, 21107), (39, 21167),

Gene: Pumpkiney_46 Start: 37481, Stop: 37999, Start Num: 2
Candidate Starts for Pumpkiney_46:
(Start: 2 @37481 has 9 MA's), (11, 37523), (18, 37610), (26, 37670), (32, 37805),

Gene: RegnumDei_28 Start: 26352, Stop: 26855, Start Num: 3
Candidate Starts for RegnumDei_28:
(1, 26286), (Start: 3 @26352 has 2 MA's), (8, 26376), (13, 26415), (14, 26436), (19, 26493), (21, 26505), (24, 26517), (28, 26541), (29, 26577), (34, 26691), (36, 26700), (38, 26736),

Gene: Samman98_24 Start: 20734, Stop: 21240, Start Num: 5
Candidate Starts for Samman98_24:
(Start: 5 @20734 has 18 MA's), (Start: 6 @20740 has 1 MA's), (10, 20758), (12, 20788), (13, 20791), (14, 20812), (23, 20890), (26, 20908), (28, 20917), (34, 21067), (35, 21076), (39, 21136),

Gene: Sampson_45 Start: 40105, Stop: 40623, Start Num: 2
Candidate Starts for Sampson_45:
(Start: 2 @40105 has 9 MA's), (11, 40147), (18, 40234), (26, 40294), (32, 40429), (33, 40450),

Gene: Scioto_46 Start: 40161, Stop: 40679, Start Num: 2
Candidate Starts for Scioto_46:
(Start: 2 @40161 has 9 MA's), (11, 40203), (18, 40290), (26, 40350), (32, 40485), (33, 40506),

Gene: Sekhmet_24 Start: 21094, Stop: 21600, Start Num: 5
Candidate Starts for Sekhmet_24:
(Start: 5 @21094 has 18 MA's), (Start: 6 @21100 has 1 MA's), (10, 21118), (12, 21148), (13, 21151), (14, 21172), (16, 21190), (23, 21250), (26, 21268), (28, 21277), (34, 21427), (35, 21436), (39, 21496),

Gene: Shlim410_24 Start: 21328, Stop: 21834, Start Num: 5
Candidate Starts for Shlim410_24:
(Start: 5 @21328 has 18 MA's), (Start: 6 @21334 has 1 MA's), (10, 21352), (12, 21382), (13, 21385), (14, 21406), (16, 21424), (23, 21484), (26, 21502), (28, 21511), (34, 21661), (35, 21670), (39, 21730),

Gene: Suerte_22 Start: 20218, Stop: 20724, Start Num: 5
Candidate Starts for Suerte_22:
(Start: 5 @20218 has 18 MA's), (Start: 6 @20224 has 1 MA's), (10, 20242), (12, 20272), (13, 20275), (14, 20296), (23, 20374), (26, 20392), (28, 20401), (34, 20551), (39, 20620),

Gene: Tardus_46 Start: 39515, Stop: 40033, Start Num: 2
Candidate Starts for Tardus_46:
(Start: 2 @39515 has 9 MA's), (11, 39557), (18, 39644), (26, 39704), (32, 39839), (33, 39860),

Gene: Thimann_24 Start: 20686, Stop: 21192, Start Num: 5
Candidate Starts for Thimann_24:

(Start: 5 @20686 has 18 MA's), (Start: 6 @20692 has 1 MA's), (10, 20710), (12, 20740), (13, 20743), (14, 20764), (23, 20842), (26, 20860), (28, 20869), (34, 21019), (39, 21088),

Gene: Twinkle_24 Start: 22387, Stop: 22893, Start Num: 5
Candidate Starts for Twinkle_24:
(Start: 5 @22387 has 18 MA's), (Start: 6 @22393 has 1 MA's), (10, 22411), (12, 22441), (13, 22444), (14, 22465), (16, 22483), (23, 22543), (26, 22561), (28, 22570), (34, 22720), (35, 22729), (39, 22789),

Gene: Upyo_23 Start: 18792, Stop: 19304, Start Num: 4
Candidate Starts for Upyo_23:
(Start: 4 @18792 has 1 MA's), (9, 18810), (11, 18819), (15, 18882), (20, 18933), (28, 18972), (30, 19026), (37, 19167), (38, 19170),

Gene: Verity_45 Start: 40925, Stop: 41440, Start Num: 2
Candidate Starts for Verity_45:
(Start: 2 @40925 has 9 MA's), (11, 40967), (18, 41054), (26, 41114), (31, 41216), (32, 41249), (33, 41270),

Gene: ViaConlectus_45 Start: 38795, Stop: 39313, Start Num: 2
Candidate Starts for ViaConlectus_45:
(Start: 2 @38795 has 9 MA's), (11, 38837), (18, 38924), (26, 38984), (32, 39119), (33, 39140),

Gene: WinkNick_24 Start: 20719, Stop: 21225, Start Num: 5
Candidate Starts for WinkNick_24:
(Start: 5 @20719 has 18 MA's), (Start: 6 @20725 has 1 MA's), (10, 20743), (12, 20773), (13, 20776), (14, 20797), (23, 20875), (26, 20893), (28, 20902), (34, 21052), (35, 21061), (39, 21121),

Gene: Zipp_46 Start: 40840, Stop: 41355, Start Num: 2
Candidate Starts for Zipp_46:
(Start: 2 @40840 has 9 MA's), (11, 40882), (18, 40969), (26, 41029), (31, 41131), (32, 41164), (33, 41185),

Gene: Zitch_48 Start: 38950, Stop: 39468, Start Num: 2
Candidate Starts for Zitch_48:
(Start: 2 @38950 has 9 MA's), (11, 38992), (18, 39079), (26, 39139), (32, 39274),