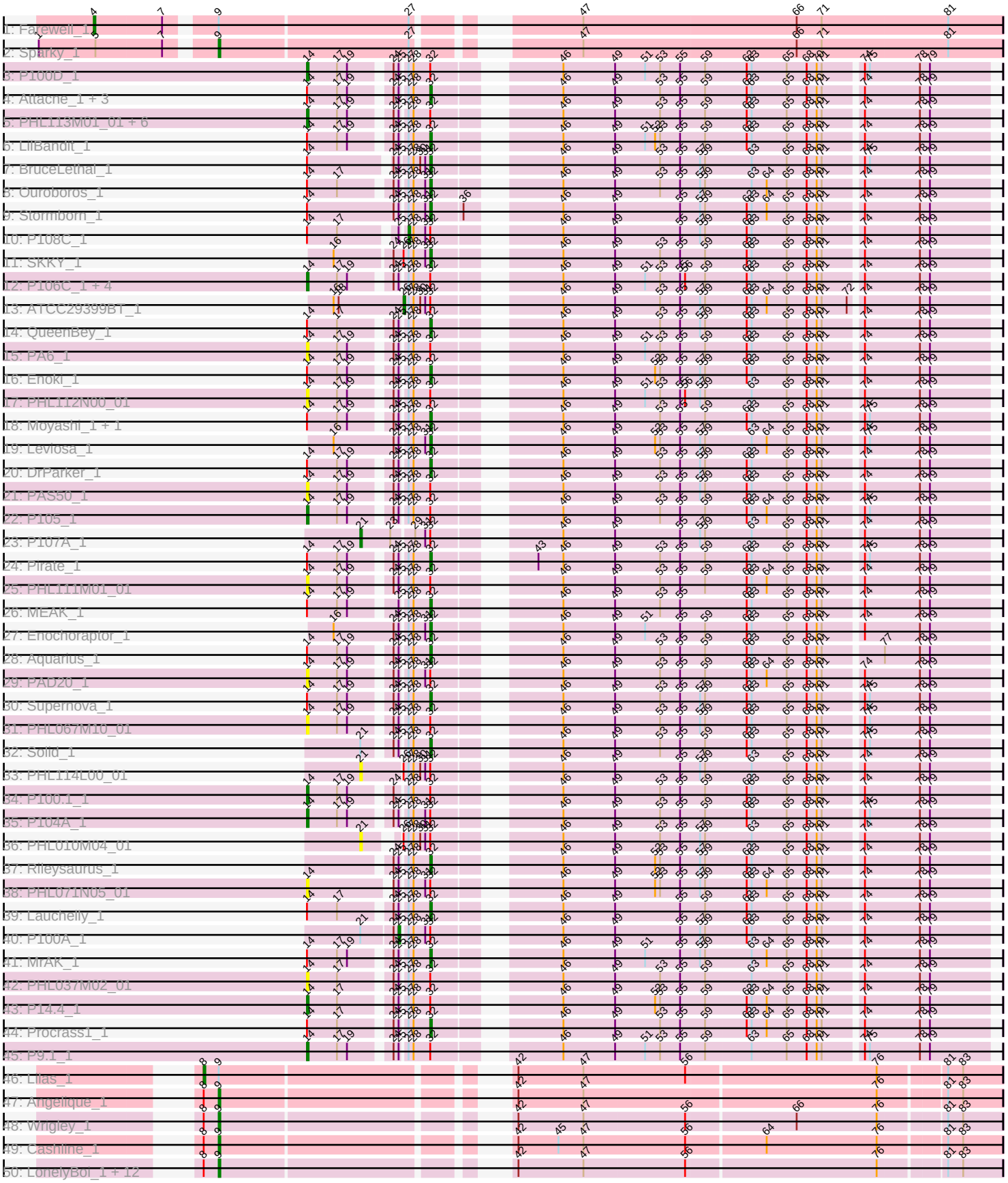
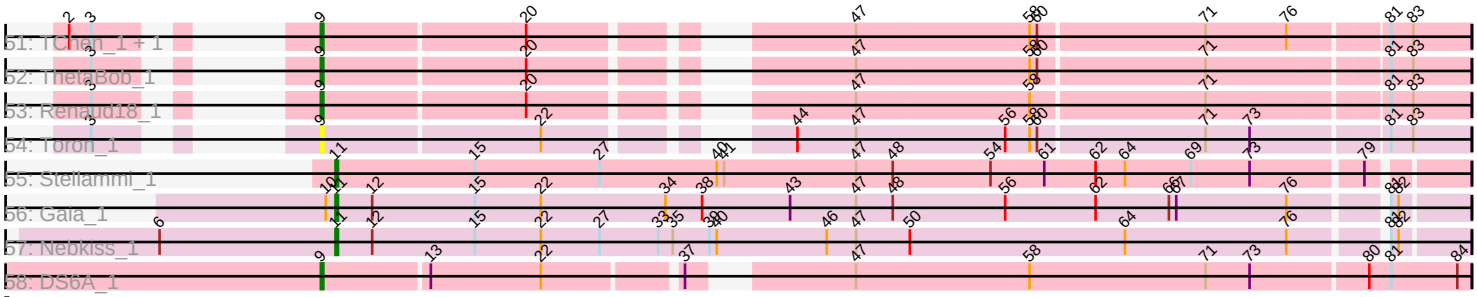
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1: Farewell_1
2: Sparky_1
3: P100D_1
4: Attache_1 + 3
5: PHL113M01_01 + 6
6: LilBandit_1
7: BruceLethal_1
8: Ouroboros_1
9: Stormborn_1
10: P108C_1
11: SKKY_1
12: P106C_1 + 4
13: ATCC29399BT_1
14: QueenBey_1
15: PA6_1
16: Enoki_1
17: PHL112N00_01
18: Moyashi_1 + 1
19: Leviosa_1
20: DrParker_1
21: PAS50_1
22: P105_1
23: P107A_1
24: Pirate_1
25: PHL111M01_01
26: MEAK_1
27: Enochoraptor_1
28: Aquarius_1
29: PAD20_1
30: Supernova_1
31: PHL067M10_01
32: Solid_1
33: PHL114L00_01
34: P100.1_1
35: P104A_1
36: PHL010M04_01
37: Rileysaurus_1
38: PHL071N05_01
39: Lauchelly_1
40: P100A_1
41: MrAK_1
42: PHL037M02_01
43: P14.4_1
44: Procrass1_1
45: P9.1_1
46: Lilas_1
47: Angelique_1
48: Wrigley_1
49: Cashline_1
50: LonelyBoi_1 + 12

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51: TChen_1 + 1
52: TheraBob_1
53: Renaud18_1
54: Toron_1
55: Stellammi_1
56: Gaia_1
57: Nebkiss_1
58: DS6A_1

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 347509 Report

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

Pham number 347509 has 85 members, 13 are drafts.

Phages represented in each track:
- Track 1 : Farewell_1
- Track 2 : Sparky_1
- Track 3 : P100D_1
- Track 4 : Attacne_1, Wizzo_1, Cota_1, Keiki_1
- Track 5 : PHL113M01_01, PHL060L00_01, P107C_1, P1.1_1, P101A_1, ATCC29399BC_1, P104B_1
- Track 6 : LilBandit_1
- Track 7 : BruceLethal_1
- Track 8 : Ouroboros_1
- Track 9 : Stormborn_1
- Track 10 : P108C_1
- Track 11 : SKKY_1
- Track 12 : P106C_1, P106I_1, P106L_1, P106A_1, P106M_1
- Track 13 : ATCC29399BT_1
- Track 14 : QueenBey_1
- Track 15 : PA6_1
- Track 16 : Enoki_1
- Track 17 : PHL112N00_01
- Track 18 : Moyashi_1, Kubed_1
- Track 19 : Leviosa_1
- Track 20 : DrParker_1
- Track 21 : PAS50_1
- Track 22 : P105_1
- Track 23 : P107A_1
- Track 24 : Pirate_1
- Track 25 : PHL111M01_01
- Track 26 : MEAK_1
- Track 27 : Enochoraptor_1
- Track 28 : Aquarius_1
- Track 29 : PAD20_1
- Track 30 : Supernova_1
- Track 31 : PHL067M10_01
- Track 32 : Solid_1
- Track 33 : PHL114L00_01
- Track 34 : P100.1_1
- Track 35 : P104A_1
- Track 36 : PHL010M04_01

• Track 37 : Rileysaurus_1
• Track 38 : PHL071N05_01
• Track 39 : Lauchelly_1
• Track 40 : P100A_1
• Track 41 : MrAK_1
• Track 42 : PHL037M02_01
• Track 43 : P14.4_1
• Track 44 : Procrass1_1
• Track 45 : P9.1_1
• Track 46 : Lilas_1
• Track 47 : Angelique_1
• Track 48 : Wrigley_1
• Track 49 : Cashline_1
• Track 50 : LonelyBoi_1, Floral_1, EMsquaredA_1, Marteena_1, Posh_1, Confidence_1, Bradissa_1, EnalisNailo_1, Jablanski_1, Pytheas_1, Pollux_1, BeeGee_1, BritBrat_1
• Track 51 : TChen_1, LunaStella_1
• Track 52 : ThetaBob_1
• Track 53 : Renaud18_1
• Track 54 : Toron_1
• Track 55 : Stellammi_1
• Track 56 : Gaia_1
• Track 57 : Nebkiss_1
• Track 58 : DS6A_1

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

The start number called the most often in the published annotations is 32, it was called in 25 of the 72 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aquarius_1, Attacne_1, BruceLethal_1, Cota_1, DrParker_1, Enochoraptor_1, Enoki_1, Keiki_1, Kubed_1, Lauchelly_1, Leviosa_1, LilBandit_1, MEAK_1, Moyashi_1, MrAK_1, Ouroboros_1, Pirate_1, Procrass1_1, QueenBey_1, Rileysaurus_1, SKKY_1, Solid_1, Stormborn_1, Supernova_1, Wizzo_1,

Genes that have the "Most Annotated" start but do not call it:
• ATCC29399BC_1, ATCC29399BT_1, P1.1_1, P100.1_1, P100A_1, P100D_1, P101A_1, P104A_1, P104B_1, P105_1, P106A_1, P106C_1, P106I_1, P106L_1, P106M_1, P107A_1, P107C_1, P108C_1, P14.4_1, P9.1_1, PA6_1, PAD20_1, PAS50_1, PHL010M04_01, PHL037M02_01, PHL060L00_01, PHL067M10_01, PHL071N05_01, PHL111M01_01, PHL112N00_01, PHL113M01_01, PHL114L00_01,

Genes that do not have the "Most Annotated" start:
• Angelique_1, BeeGee_1, Bradissa_1, BritBrat_1, Cashline_1, Confidence_1, DS6A_1, EMsquaredA_1, EnalisNailo_1, Farewell_1, Floral_1, Gaia_1, Jablanski_1, Lilas_1, LonelyBoi_1, LunaStella_1, Marteena_1, Nebkiss_1, Pollux_1, Posh_1, Pytheas_1, Renaud18_1, Sparky_1, Stellammi_1, TChen_1, ThetaBob_1, Toron_1, Wrigley_1,

Summary by start number:

Start 4:
• Found in 1 of 85 (1.2%) of genes in pham
• Manual Annotations of this start: 1 of 72
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Farewell_1 (AF),

Start 8:
• Found in 17 of 85 (20.0%) of genes in pham
• Manual Annotations of this start: 1 of 72
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Lilas_1 (CY1),

Start 9:
• Found in 25 of 85 (29.4%) of genes in pham
• Manual Annotations of this start: 22 of 72
• Called 92.0% of time when present
• Phage (with cluster) where this start called: Angelique_1 (CY1), BeeGee_1 (CY5), Bradissa_1 (CY1), BritBrat_1 (CY2), Cashline_1 (CY6), Confidence_1 (CY1), DS6A_1 (singleton), EMsquaredA_1 (CY1), EnalisNailo_1 (CY1), Floral_1 (CY1), Jablanski_1 (CY3), LonelyBoi_1 (CY7), LunaStella_1 (F4), Marteena_1 (CY1), Pollux_1 (CY1), Posh_1 (CY4), Pytheas_1 (CY3), Renaud18_1 (F4), Sparky_1 (AF), TChen_1 (F4), ThetaBob_1 (F4), Toron_1 (F6), Wrigley_1 (CY4),

Start 11:
• Found in 3 of 85 (3.5%) of genes in pham
• Manual Annotations of this start: 3 of 72
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gaia_1 (X), Nebkiss_1 (X), Stellammi_1 (UNK),

Start 14:
• Found in 47 of 85 (55.3%) of genes in pham
• Manual Annotations of this start: 16 of 72
• Called 55.3% of time when present
• Phage (with cluster) where this start called: ATCC29399BC_1 (BU), P1.1_1 (BU), P100.1_1 (BU), P100D_1 (BU), P101A_1 (BU), P104A_1 (BU), P104B_1 (BU), P105_1 (BU), P106A_1 (BU), P106C_1 (BU), P106I_1 (BU), P106L_1 (BU), P106M_1 (BU), P107C_1 (BU), P14.4_1 (BU), P9.1_1 (BU), PA6_1 (BU), PAD20_1 (BU), PAS50_1 (BU), PHL037M02_01 (BU), PHL060L00_01 (BU), PHL067M10_01 (BU), PHL071N05_01 (BU), PHL111M01_01 (BU), PHL112N00_01 (BU), PHL113M01_01 (BU),

Start 21:
• Found in 5 of 85 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 72
• Called 60.0% of time when present
• Phage (with cluster) where this start called: P107A_1 (BU), PHL010M04_01 (BU), PHL114L00_01 (BU),

Start 25:

• Found in 51 of 85 (60.0%) of genes in pham
• Manual Annotations of this start: 1 of 72
• Called 2.0% of time when present
• Phage (with cluster) where this start called: P100A_1 (BU),

Start 26:
• Found in 4 of 85 (4.7%) of genes in pham
• Manual Annotations of this start: 1 of 72
• Called 25.0% of time when present
• Phage (with cluster) where this start called: ATCC29399BT_1 (BU),

Start 27:
• Found in 60 of 85 (70.6%) of genes in pham
• Manual Annotations of this start: 1 of 72
• Called 1.7% of time when present
• Phage (with cluster) where this start called: P108C_1 (BU),

Start 32:
• Found in 57 of 85 (67.1%) of genes in pham
• Manual Annotations of this start: 25 of 72
• Called 43.9% of time when present
• Phage (with cluster) where this start called: Aquarius_1 (BU), Attacne_1 (BU), BruceLethal_1 (BU), Cota_1 (BU), DrParker_1 (BU), Enochoraptor_1 (BU), Enoki_1 (BU), Keiki_1 (BU), Kubed_1 (BU), Lauchelly_1 (BU), Leviosa_1 (BU), LilBandit_1 (BU), MEAK_1 (BU), Moyashi_1 (BU), MrAK_1 (BU), Ouroboros_1 (BU), Pirate_1 (BU), Procrass1_1 (BU), QueenBey_1 (BU), Rileysaurus_1 (BU), SKKY_1 (BU), Solid_1 (BU), Stormborn_1 (BU), Supernova_1 (BU), Wizzo_1 (BU),

Summary by clusters:

There are 14 clusters represented in this pham: CY3, CY2, CY1, F4, CY6, CY5, CY4, AF, singleton, F6, BU, X, UNK, CY7,

Info for manual annotations of cluster AF:
•Start number 4 was manually annotated 1 time for cluster AF.
•Start number 9 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster BU:
•Start number 14 was manually annotated 16 times for cluster BU.
•Start number 21 was manually annotated 1 time for cluster BU.
•Start number 25 was manually annotated 1 time for cluster BU.
•Start number 26 was manually annotated 1 time for cluster BU.
•Start number 27 was manually annotated 1 time for cluster BU.
•Start number 32 was manually annotated 25 times for cluster BU.

Info for manual annotations of cluster CY1:
•Start number 8 was manually annotated 1 time for cluster CY1.
•Start number 9 was manually annotated 8 times for cluster CY1.

Info for manual annotations of cluster CY2:
•Start number 9 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY3:

•Start number 9 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:
•Start number 9 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CY5:
•Start number 9 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY6:
•Start number 9 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:
•Start number 9 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster F4:
•Start number 9 was manually annotated 4 times for cluster F4.

Info for manual annotations of cluster UNK:
•Start number 11 was manually annotated 1 time for cluster UNK.

Info for manual annotations of cluster X:
•Start number 11 was manually annotated 2 times for cluster X.

Gene Information:

Gene: ATCC29399BC_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for ATCC29399BC_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: ATCC29399BT_1 Start: 57, Stop: 380, Start Num: 26
Candidate Starts for ATCC29399BT_1:
(16, 18), (18, 21), (Start: 26 @57 has 1 MA's), (Start: 27 @60 has 1 MA's), (28, 63), (30, 66), (31, 69), (Start: 32 @72 has 25 MA's), (46, 132), (49, 162), (53, 189), (55, 201), (57, 213), (59, 216), (62, 240), (63, 243), (64, 252), (65, 264), (68, 276), (70, 282), (71, 285), (72, 300), (74, 306), (78, 339), (79, 345),

Gene: Angelique_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Angelique_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (76, 436), (81, 472), (83, 481),

Gene: Aquarius_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for Aquarius_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (77, 311), (78, 332), (79, 338),

Gene: Attacne_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for Attacne_1:

(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: BeeGee_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for BeeGee_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (56, 325), (76, 436), (81, 472), (83, 481),

Gene: Bradissa_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Bradissa_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (56, 325), (76, 436), (81, 472), (83, 481),

Gene: BritBrat_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for BritBrat_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (56, 325), (76, 436), (81, 472), (83, 481),

Gene: BruceLethal_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for BruceLethal_1:
(Start: 14 @2 has 16 MA's), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (30, 59), (31, 62), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (57, 206), (59, 209), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (75, 302), (78, 332), (79, 338),

Gene: Cashline_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Cashline_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (45, 250), (47, 265), (56, 325), (64, 370), (76, 436), (81, 472), (83, 481),

Gene: Confidence_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Confidence_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (56, 325), (76, 436), (81, 472), (83, 481),

Gene: Cota_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for Cota_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: DS6A_1 Start: 246, Stop: 680, Start Num: 9
Candidate Starts for DS6A_1:
(Start: 9 @246 has 22 MA's), (13, 288), (22, 333), (37, 384), (47, 435), (58, 504), (71, 576), (73, 594), (80, 639), (81, 648), (84, 675),

Gene: DrParker_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for DrParker_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (57, 206), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: EMsquaredA_1 Start: 82, Stop: 504, Start Num: 9

Candidate Starts for EMsquaredA_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (56, 325), (76, 436), (81, 472), (83, 481),

Gene: EnalisNailo_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for EnalisNailo_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (56, 325), (76, 436), (81, 472), (83, 481),

Gene: Enochoraptor_1 Start: 72, Stop: 380, Start Num: 32
Candidate Starts for Enochoraptor_1:
(16, 18), (24, 54), (Start: 25 @57 has 1 MA's), (Start: 27 @60 has 1 MA's), (28, 63), (31, 69), (Start: 32 @72 has 25 MA's), (46, 132), (49, 162), (51, 180), (55, 201), (59, 216), (62, 240), (63, 243), (65, 264), (68, 276), (70, 282), (71, 285), (74, 306), (78, 339), (79, 345),

Gene: Enoki_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for Enoki_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (52, 179), (53, 182), (55, 194), (57, 206), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: Farewell_1 Start: 34, Stop: 528, Start Num: 4
Candidate Starts for Farewell_1:
(Start: 4 @34 has 1 MA's), (7, 73), (Start: 9 @97 has 22 MA's), (Start: 27 @208 has 1 MA's), (47, 280), (66, 406), (71, 421), (81, 496),

Gene: Floral_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Floral_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (56, 325), (76, 436), (81, 472), (83, 481),

Gene: Gaia_1 Start: 129, Stop: 578, Start Num: 11
Candidate Starts for Gaia_1:
(10, 126), (Start: 11 @129 has 3 MA's), (12, 144), (15, 186), (22, 213), (34, 264), (38, 279), (43, 315), (47, 342), (48, 357), (56, 402), (62, 438), (66, 468), (67, 471), (76, 516), (81, 549), (82, 552),

Gene: Jablanski_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Jablanski_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (56, 325), (76, 436), (81, 472), (83, 481),

Gene: Keiki_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for Keiki_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: Kubed_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for Kubed_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (75, 302), (78, 332), (79, 338),

Gene: Lauchelly_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for Lauchelly_1:
(Start: 14 @2 has 16 MA's), (17, 20), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: Leviosa_1 Start: 72, Stop: 380, Start Num: 32
Candidate Starts for Leviosa_1:
(16, 18), (24, 54), (Start: 25 @57 has 1 MA's), (Start: 27 @60 has 1 MA's), (28, 63), (31, 69), (Start: 32 @72 has 25 MA's), (46, 132), (49, 162), (52, 186), (53, 189), (55, 201), (57, 213), (59, 216), (63, 243), (64, 252), (65, 264), (68, 276), (70, 282), (71, 285), (74, 306), (75, 309), (78, 339), (79, 345),

Gene: LilBandit_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for LilBandit_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (51, 173), (52, 179), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: Lilas_1 Start: 73, Stop: 504, Start Num: 8
Candidate Starts for Lilas_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (56, 325), (76, 436), (81, 472), (83, 481),

Gene: LonelyBoi_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for LonelyBoi_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (56, 325), (76, 436), (81, 472), (83, 481),

Gene: LunaStella_1 Start: 55, Stop: 477, Start Num: 9
Candidate Starts for LunaStella_1:
(2, 7), (3, 16), (Start: 9 @55 has 22 MA's), (20, 136), (47, 238), (58, 307), (60, 310), (71, 376), (76, 409), (81, 445), (83, 454),

Gene: MEAK_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for MEAK_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: Marteena_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Marteena_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (56, 325), (76, 436), (81, 472), (83, 481),

Gene: Moyashi_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for Moyashi_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (75, 302), (78, 332), (79, 338),

Gene: MrAK_1 Start: 65, Stop: 373, Start Num: 32

Candidate Starts for MrAK_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (51, 173), (55, 194), (57, 206), (59, 209), (63, 236), (64, 245), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: Nebkiss_1 Start: 130, Stop: 579, Start Num: 11
Candidate Starts for Nebkiss_1:
(6, 58), (Start: 11 @130 has 3 MA's), (12, 145), (15, 187), (22, 214), (Start: 27 @238 has 1 MA's), (33, 262), (35, 268), (39, 283), (40, 286), (46, 331), (47, 343), (50, 364), (64, 451), (76, 517), (81, 550), (82, 553),

Gene: Ouroboros_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for Ouroboros_1:
(Start: 14 @2 has 16 MA's), (17, 20), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (31, 62), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (57, 206), (59, 209), (63, 236), (64, 245), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: P1.1_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for P1.1_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: P100.1_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for P100.1_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: P100A_1 Start: 55, Stop: 378, Start Num: 25
Candidate Starts for P100A_1:
(Start: 21 @34 has 1 MA's), (24, 52), (Start: 25 @55 has 1 MA's), (Start: 27 @58 has 1 MA's), (28, 61), (31, 67), (Start: 32 @70 has 25 MA's), (46, 130), (49, 160), (55, 199), (57, 211), (59, 214), (62, 238), (63, 241), (65, 262), (68, 274), (70, 280), (71, 283), (74, 304), (78, 337), (79, 343),

Gene: P100D_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for P100D_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (51, 173), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (75, 302), (78, 332), (79, 338),

Gene: P101A_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for P101A_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: P104A_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for P104A_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (31, 62), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (75, 302), (78, 332), (79,

338),

Gene: P104B_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for P104B_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: P105_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for P105_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (64, 245), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (75, 302), (78, 332), (79, 338),

Gene: P106A_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for P106A_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (51, 173), (53, 182), (55, 194), (56, 197), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: P106C_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for P106C_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (51, 173), (53, 182), (55, 194), (56, 197), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: P106I_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for P106I_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (51, 173), (53, 182), (55, 194), (56, 197), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: P106L_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for P106L_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (51, 173), (53, 182), (55, 194), (56, 197), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: P106M_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for P106M_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (51, 173), (53, 182), (55, 194), (56, 197), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: P107A_1 Start: 34, Stop: 381, Start Num: 21
Candidate Starts for P107A_1:

(Start: 21 @34 has 1 MA's), (23, 52), (29, 64), (31, 70), (Start: 32 @73 has 25 MA's), (46, 133), (49, 163), (55, 202), (57, 214), (59, 217), (63, 244), (65, 265), (68, 277), (70, 283), (71, 286), (74, 307), (78, 340), (79, 346),

Gene: P107C_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for P107C_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: P108C_1 Start: 53, Stop: 373, Start Num: 27
Candidate Starts for P108C_1:
(Start: 14 @2 has 16 MA's), (17, 20), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (31, 62), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (55, 194), (57, 206), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: P14.4_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for P14.4_1:
(Start: 14 @2 has 16 MA's), (17, 20), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (52, 179), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (64, 245), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: P9.1_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for P9.1_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (51, 173), (53, 182), (55, 194), (59, 209), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (75, 302), (78, 332), (79, 338),

Gene: PA6_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for PA6_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (51, 173), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: PAD20_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for PAD20_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (31, 62), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (64, 245), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: PAS50_1 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for PAS50_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (57, 206), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: PHL010M04_01 Start: 34, Stop: 372, Start Num: 21
Candidate Starts for PHL010M04_01:
(Start: 21 @34 has 1 MA's), (Start: 26 @49 has 1 MA's), (Start: 27 @52 has 1 MA's), (28, 55), (30, 58), (31, 61), (Start: 32 @64 has 25 MA's), (46, 124), (49, 154), (53, 181), (55, 193), (57, 205), (59, 208), (63, 235), (65, 256), (68, 268), (70, 274), (71, 277), (74, 298), (78, 331), (79, 337),

Gene: PHL037M02_01 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for PHL037M02_01:
(Start: 14 @2 has 16 MA's), (17, 20), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: PHL060L00_01 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for PHL060L00_01:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: PHL067M10_01 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for PHL067M10_01:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (57, 206), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (75, 302), (78, 332), (79, 338),

Gene: PHL071N05_01 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for PHL071N05_01:
(Start: 14 @2 has 16 MA's), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (31, 62), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (52, 179), (53, 182), (55, 194), (57, 206), (59, 209), (62, 233), (63, 236), (64, 245), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: PHL111M01_01 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for PHL111M01_01:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (64, 245), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: PHL112N00_01 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for PHL112N00_01:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (51, 173), (53, 182), (55, 194), (56, 197), (57, 206), (59, 209), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: PHL113M01_01 Start: 2, Stop: 373, Start Num: 14
Candidate Starts for PHL113M01_01:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: PHL114L00_01 Start: 34, Stop: 381, Start Num: 21
Candidate Starts for PHL114L00_01:
(Start: 21 @34 has 1 MA's), (Start: 26 @58 has 1 MA's), (Start: 27 @61 has 1 MA's), (28, 64), (30, 67), (31, 70), (Start: 32 @73 has 25 MA's), (46, 133), (49, 163), (55, 202), (57, 214), (59, 217), (63, 244), (65, 265), (68, 277), (70, 283), (71, 286), (74, 307), (78, 340), (79, 346),

Gene: Pirate_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for Pirate_1:

(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (43, 110), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (75, 302), (78, 332), (79, 338),

Gene: Pollux_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Pollux_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (56, 325), (76, 436), (81, 472), (83, 481),

Gene: Posh_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Posh_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (56, 325), (76, 436), (81, 472), (83, 481),

Gene: Procrass1_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for Procrass1_1:
(Start: 14 @2 has 16 MA's), (17, 20), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (64, 245), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: Pytheas_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Pytheas_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (56, 325), (76, 436), (81, 472), (83, 481),

Gene: QueenBey_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for QueenBey_1:
(Start: 14 @2 has 16 MA's), (17, 20), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (57, 206), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: Renaud18_1 Start: 55, Stop: 477, Start Num: 9
Candidate Starts for Renaud18_1:
(3, 16), (Start: 9 @55 has 22 MA's), (20, 136), (47, 238), (58, 307), (71, 376), (81, 445), (83, 454),

Gene: Rileysaurus_1 Start: 64, Stop: 372, Start Num: 32
Candidate Starts for Rileysaurus_1:
(24, 46), (Start: 25 @49 has 1 MA's), (Start: 27 @52 has 1 MA's), (28, 55), (Start: 32 @64 has 25 MA's), (46, 124), (49, 154), (52, 178), (53, 181), (55, 193), (57, 205), (59, 208), (62, 232), (63, 235), (65, 256), (68, 268), (70, 274), (71, 277), (74, 298), (78, 331), (79, 337),

Gene: SKKY_1 Start: 72, Stop: 380, Start Num: 32
Candidate Starts for SKKY_1:
(16, 18), (24, 51), (Start: 26 @57 has 1 MA's), (Start: 27 @60 has 1 MA's), (28, 63), (31, 69), (Start: 32 @72 has 25 MA's), (46, 132), (49, 162), (53, 189), (55, 201), (59, 216), (62, 240), (63, 243), (65, 264), (68, 276), (70, 282), (71, 285), (74, 306), (78, 339), (79, 345),

Gene: Solid_1 Start: 64, Stop: 372, Start Num: 32
Candidate Starts for Solid_1:
(Start: 21 @34 has 1 MA's), (24, 46), (Start: 25 @49 has 1 MA's), (Start: 27 @52 has 1 MA's), (28, 55), (Start: 32 @64 has 25 MA's), (46, 124), (49, 154), (53, 181), (55, 193), (59, 208), (62, 232), (63, 235), (65, 256), (68, 268), (70, 274), (71, 277), (74, 298), (75, 301), (78, 331), (79, 337),

Gene: Sparky_1 Start: 98, Stop: 529, Start Num: 9
Candidate Starts for Sparky_1:
(1, 2), (5, 35), (7, 74), (Start: 9 @98 has 22 MA's), (Start: 27 @209 has 1 MA's), (47, 281), (66, 407), (71, 422), (81, 497),

Gene: Stellammi_1 Start: 109, Stop: 558, Start Num: 11
Candidate Starts for Stellammi_1:
(Start: 11 @109 has 3 MA's), (15, 166), (Start: 27 @217 has 1 MA's), (40, 265), (41, 268), (47, 322), (48, 337), (54, 376), (61, 397), (62, 418), (64, 430), (69, 457), (73, 481), (79, 523),

Gene: Stormborn_1 Start: 71, Stop: 379, Start Num: 32
Candidate Starts for Stormborn_1:
(Start: 14 @2 has 16 MA's), (24, 53), (Start: 25 @56 has 1 MA's), (Start: 27 @59 has 1 MA's), (28, 62), (31, 68), (Start: 32 @71 has 25 MA's), (36, 89), (46, 131), (49, 161), (55, 200), (57, 212), (59, 215), (62, 239), (63, 242), (64, 251), (65, 263), (68, 275), (70, 281), (71, 284), (74, 305), (78, 338), (79, 344),

Gene: Supernova_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for Supernova_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (57, 206), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (75, 302), (78, 332), (79, 338),

Gene: TChen_1 Start: 55, Stop: 477, Start Num: 9
Candidate Starts for TChen_1:
(2, 7), (3, 16), (Start: 9 @55 has 22 MA's), (20, 136), (47, 238), (58, 307), (60, 310), (71, 376), (76, 409), (81, 445), (83, 454),

Gene: ThetaBob_1 Start: 55, Stop: 477, Start Num: 9
Candidate Starts for ThetaBob_1:
(3, 16), (Start: 9 @55 has 22 MA's), (20, 136), (47, 238), (58, 307), (60, 310), (71, 376), (81, 445), (83, 454),

Gene: Toron_1 Start: 55, Stop: 477, Start Num: 9
Candidate Starts for Toron_1:
(3, 16), (Start: 9 @55 has 22 MA's), (22, 142), (44, 214), (47, 238), (56, 298), (58, 307), (60, 310), (71, 376), (73, 394), (81, 445), (83, 454),

Gene: Wizzo_1 Start: 65, Stop: 373, Start Num: 32
Candidate Starts for Wizzo_1:
(Start: 14 @2 has 16 MA's), (17, 20), (19, 26), (24, 47), (Start: 25 @50 has 1 MA's), (Start: 27 @53 has 1 MA's), (28, 56), (Start: 32 @65 has 25 MA's), (46, 125), (49, 155), (53, 182), (55, 194), (59, 209), (62, 233), (63, 236), (65, 257), (68, 269), (70, 275), (71, 278), (74, 299), (78, 332), (79, 338),

Gene: Wrigley_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Wrigley_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (42, 226), (47, 265), (56, 325), (66, 388), (76, 436), (81, 472), (83, 481),