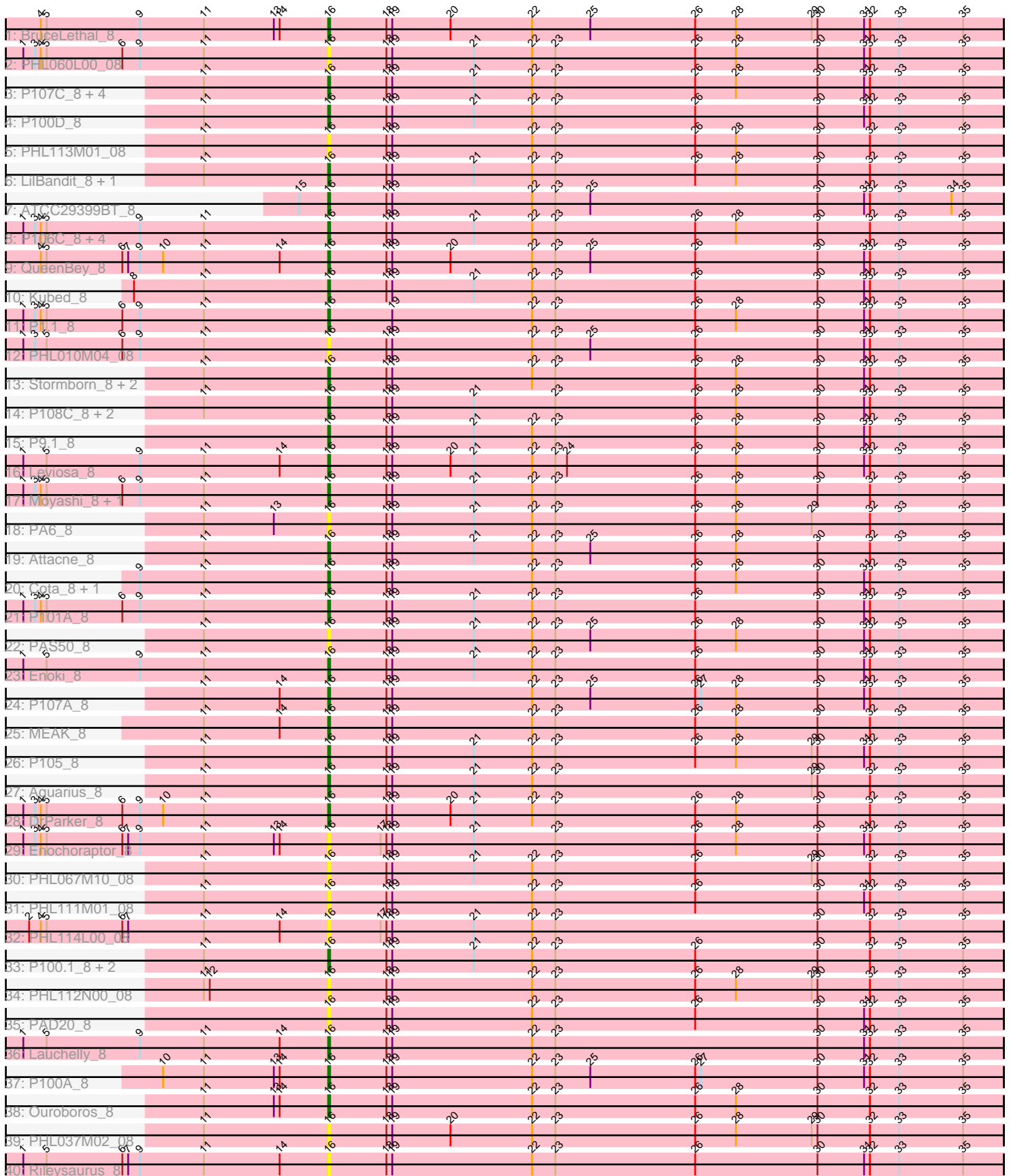


Pham 156403



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 156403 Report

This analysis was run 04/12/24 on database version 558.

Pham number 156403 has 57 members, 14 are drafts.

Phages represented in each track:

- Track 1 : BruceLethal_8
- Track 2 : PHL060L00_08
- Track 3 : P107C_8, ATCC29399BC_8, Wizzo_8, Solid_8, Supernova_8
- Track 4 : P100D_8
- Track 5 : PHL113M01_08
- Track 6 : LilBandit_8, P14.4_8
- Track 7 : ATCC29399BT_8
- Track 8 : P106C_8, P106L_8, P106A_8, P106I_8, P106M_8
- Track 9 : QueenBey_8
- Track 10 : Kubed_8
- Track 11 : P1.1_8
- Track 12 : PHL010M04_08
- Track 13 : Stormborn_8, P104B_8, Procrass1_8
- Track 14 : P108C_8, Pirate_8, PHL071N05_08
- Track 15 : P9.1_8
- Track 16 : Leviosa_8
- Track 17 : Moyashi_8, SKKY_8
- Track 18 : PA6_8
- Track 19 : Attacne_8
- Track 20 : Cota_8, Keiki_8
- Track 21 : P101A_8
- Track 22 : PAS50_8
- Track 23 : Enoki_8
- Track 24 : P107A_8
- Track 25 : MEAK_8
- Track 26 : P105_8
- Track 27 : Aquarius_8
- Track 28 : DrParker_8
- Track 29 : Enochoraptor_8
- Track 30 : PHL067M10_08
- Track 31 : PHL111M01_08
- Track 32 : PHL114L00_08
- Track 33 : P100.1_8, P104A_8, MrAK_8
- Track 34 : PHL112N00_08
- Track 35 : PAD20_8
- Track 36 : Lauchelly_8
- Track 37 : P100A_8

- Track 38 : Ouroboros_8
- Track 39 : PHL037M02_08
- Track 40 : Rileysaurus_8

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

The start number called the most often in the published annotations is 16, it was called in 43 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ATCC29399BC_8, ATCC29399BT_8, Aquarius_8, Attacne_8, BruceLethal_8, Cota_8, DrParker_8, Enochoraptor_8, Enoki_8, Keiki_8, Kubed_8, Lauchelly_8, Leviosa_8, LilBandit_8, MEAK_8, Moyashi_8, MrAK_8, Ouroboros_8, P1.1_8, P100.1_8, P100A_8, P100D_8, P101A_8, P104A_8, P104B_8, P105_8, P106A_8, P106C_8, P106I_8, P106L_8, P106M_8, P107A_8, P107C_8, P108C_8, P14.4_8, P9.1_8, PA6_8, PAD20_8, PAS50_8, PHL010M04_08, PHL037M02_08, PHL060L00_08, PHL067M10_08, PHL071N05_08, PHL111M01_08, PHL112N00_08, PHL113M01_08, PHL114L00_08, Pirate_8, Procrass1_8, QueenBey_8, Rileysaurus_8, SKKY_8, Solid_8, Stormborn_8, Supernova_8, Wizzo_8,

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

-

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

-

Summary by start number:

Start 16:

- Found in 57 of 57 (100.0%) of genes in pham
- Manual Annotations of this start: 43 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ATCC29399BC_8 (BU), ATCC29399BT_8 (BU), Aquarius_8 (BU), Attacne_8 (BU), BruceLethal_8 (BU), Cota_8 (BU), DrParker_8 (BU), Enochoraptor_8 (BU), Enoki_8 (BU), Keiki_8 (BU), Kubed_8 (BU), Lauchelly_8 (BU), Leviosa_8 (BU), LilBandit_8 (BU), MEAK_8 (BU), Moyashi_8 (BU), MrAK_8 (BU), Ouroboros_8 (BU), P1.1_8 (BU), P100.1_8 (BU), P100A_8 (BU), P100D_8 (BU), P101A_8 (BU), P104A_8 (BU), P104B_8 (BU), P105_8 (BU), P106A_8 (BU), P106C_8 (BU), P106I_8 (BU), P106L_8 (BU), P106M_8 (BU), P107A_8 (BU), P107C_8 (BU), P108C_8 (BU), P14.4_8 (BU), P9.1_8 (BU), PA6_8 (BU), PAD20_8 (BU), PAS50_8 (BU), PHL010M04_08 (BU), PHL037M02_08 (BU), PHL060L00_08 (BU), PHL067M10_08 (BU), PHL071N05_08 (BU), PHL111M01_08 (BU), PHL112N00_08 (BU), PHL113M01_08 (BU), PHL114L00_08 (BU), Pirate_8 (BU), Procrass1_8 (BU), QueenBey_8 (BU), Rileysaurus_8 (BU), SKKY_8 (BU), Solid_8 (BU), Stormborn_8 (BU), Supernova_8 (BU), Wizzo_8 (BU),

Summary by clusters:

There is one cluster represented in this pham: BU

Info for manual annotations of cluster BU:

•Start number 16 was manually annotated 43 times for cluster BU.

Gene Information:

Gene: ATCC29399BC_8 Start: 6098, Stop: 6445, Start Num: 16

Candidate Starts for ATCC29399BC_8:

(11, 6035), (Start: 16 @6098 has 43 MA's), (18, 6128), (19, 6131), (21, 6173), (22, 6203), (23, 6215), (26, 6287), (28, 6308), (30, 6350), (31, 6374), (32, 6377), (33, 6392), (35, 6425),

Gene: ATCC29399BT_8 Start: 6095, Stop: 6442, Start Num: 16

Candidate Starts for ATCC29399BT_8:

(15, 6080), (Start: 16 @6095 has 43 MA's), (18, 6125), (19, 6128), (22, 6200), (23, 6212), (25, 6230), (30, 6347), (31, 6371), (32, 6374), (33, 6389), (34, 6416), (35, 6422),

Gene: Aquarius_8 Start: 6088, Stop: 6435, Start Num: 16

Candidate Starts for Aquarius_8:

(11, 6025), (Start: 16 @6088 has 43 MA's), (18, 6118), (19, 6121), (21, 6163), (22, 6193), (23, 6205), (29, 6337), (30, 6340), (32, 6367), (33, 6382), (35, 6415),

Gene: Attacne_8 Start: 6099, Stop: 6446, Start Num: 16

Candidate Starts for Attacne_8:

(11, 6036), (Start: 16 @6099 has 43 MA's), (18, 6129), (19, 6132), (21, 6174), (22, 6204), (23, 6216), (25, 6234), (26, 6288), (28, 6309), (30, 6351), (32, 6378), (33, 6393), (35, 6426),

Gene: BruceLethal_8 Start: 6088, Stop: 6435, Start Num: 16

Candidate Starts for BruceLethal_8:

(4, 5941), (5, 5944), (9, 5992), (11, 6025), (13, 6061), (14, 6064), (Start: 16 @6088 has 43 MA's), (18, 6118), (19, 6121), (20, 6151), (22, 6193), (25, 6223), (26, 6277), (28, 6298), (29, 6337), (30, 6340), (31, 6364), (32, 6367), (33, 6382), (35, 6415),

Gene: Cota_8 Start: 6106, Stop: 6453, Start Num: 16

Candidate Starts for Cota_8:

(9, 6010), (11, 6043), (Start: 16 @6106 has 43 MA's), (18, 6136), (19, 6139), (22, 6211), (23, 6223), (26, 6295), (28, 6316), (30, 6358), (31, 6382), (32, 6385), (33, 6400), (35, 6433),

Gene: DrParker_8 Start: 6113, Stop: 6460, Start Num: 16

Candidate Starts for DrParker_8:

(1, 5957), (3, 5963), (4, 5966), (5, 5969), (6, 6008), (9, 6017), (10, 6029), (11, 6050), (Start: 16 @6113 has 43 MA's), (18, 6143), (19, 6146), (20, 6176), (21, 6188), (22, 6218), (23, 6230), (26, 6302), (28, 6323), (30, 6365), (32, 6392), (33, 6407), (35, 6440),

Gene: Enochoraptor_8 Start: 6109, Stop: 6456, Start Num: 16

Candidate Starts for Enochoraptor_8:

(1, 5953), (3, 5959), (4, 5962), (5, 5965), (6, 6004), (7, 6007), (9, 6013), (11, 6046), (13, 6082), (14, 6085), (Start: 16 @6109 has 43 MA's), (17, 6136), (18, 6139), (19, 6142), (21, 6184), (23, 6226), (26, 6298), (28, 6319), (30, 6361), (31, 6385), (32, 6388), (33, 6403), (35, 6436),

Gene: Enoki_8 Start: 6094, Stop: 6441, Start Num: 16

Candidate Starts for Enoki_8:

(1, 5938), (5, 5950), (9, 5998), (11, 6031), (Start: 16 @6094 has 43 MA's), (18, 6124), (19, 6127), (21, 6169), (22, 6199), (23, 6211), (26, 6283), (30, 6346), (31, 6370), (32, 6373), (33, 6388), (35, 6421),

Gene: Keiki_8 Start: 6106, Stop: 6453, Start Num: 16

Candidate Starts for Keiki_8:

(9, 6010), (11, 6043), (Start: 16 @6106 has 43 MA's), (18, 6136), (19, 6139), (22, 6211), (23, 6223), (26, 6295), (28, 6316), (30, 6358), (31, 6382), (32, 6385), (33, 6400), (35, 6433),

Gene: Kubed_8 Start: 6096, Stop: 6443, Start Num: 16

Candidate Starts for Kubed_8:

(8, 5997), (11, 6033), (Start: 16 @6096 has 43 MA's), (18, 6126), (19, 6129), (21, 6171), (22, 6201), (23, 6213), (26, 6285), (30, 6348), (31, 6372), (32, 6375), (33, 6390), (35, 6423),

Gene: Lauchelly_8 Start: 6091, Stop: 6438, Start Num: 16

Candidate Starts for Lauchelly_8:

(1, 5935), (5, 5947), (9, 5995), (11, 6028), (14, 6067), (Start: 16 @6091 has 43 MA's), (18, 6121), (19, 6124), (22, 6196), (23, 6208), (30, 6343), (31, 6367), (32, 6370), (33, 6385), (35, 6418),

Gene: Leviosa_8 Start: 6112, Stop: 6459, Start Num: 16

Candidate Starts for Leviosa_8:

(1, 5956), (5, 5968), (9, 6016), (11, 6049), (14, 6088), (Start: 16 @6112 has 43 MA's), (18, 6142), (19, 6145), (20, 6175), (21, 6187), (22, 6217), (23, 6229), (24, 6235), (26, 6301), (28, 6322), (30, 6364), (31, 6388), (32, 6391), (33, 6406), (35, 6439),

Gene: LilBandit_8 Start: 6096, Stop: 6443, Start Num: 16

Candidate Starts for LilBandit_8:

(11, 6033), (Start: 16 @6096 has 43 MA's), (18, 6126), (19, 6129), (21, 6171), (22, 6201), (23, 6213), (26, 6285), (28, 6306), (30, 6348), (32, 6375), (33, 6390), (35, 6423),

Gene: MEAK_8 Start: 6098, Stop: 6445, Start Num: 16

Candidate Starts for MEAK_8:

(11, 6035), (14, 6074), (Start: 16 @6098 has 43 MA's), (18, 6128), (19, 6131), (22, 6203), (23, 6215), (26, 6287), (28, 6308), (30, 6350), (32, 6377), (33, 6392), (35, 6425),

Gene: Moyashi_8 Start: 6116, Stop: 6463, Start Num: 16

Candidate Starts for Moyashi_8:

(1, 5960), (3, 5966), (4, 5969), (5, 5972), (6, 6011), (9, 6020), (11, 6053), (Start: 16 @6116 has 43 MA's), (18, 6146), (19, 6149), (21, 6191), (22, 6221), (23, 6233), (26, 6305), (28, 6326), (30, 6368), (32, 6395), (33, 6410), (35, 6443),

Gene: MrAK_8 Start: 6125, Stop: 6472, Start Num: 16

Candidate Starts for MrAK_8:

(11, 6062), (Start: 16 @6125 has 43 MA's), (18, 6155), (19, 6158), (21, 6200), (22, 6230), (23, 6242), (26, 6314), (30, 6377), (32, 6404), (33, 6419), (35, 6452),

Gene: Ouroboros_8 Start: 6099, Stop: 6446, Start Num: 16

Candidate Starts for Ouroboros_8:

(11, 6036), (13, 6072), (14, 6075), (Start: 16 @6099 has 43 MA's), (18, 6129), (19, 6132), (22, 6204), (23, 6216), (26, 6288), (28, 6309), (30, 6351), (32, 6378), (33, 6393), (35, 6426),

Gene: P1.1_8 Start: 6099, Stop: 6446, Start Num: 16

Candidate Starts for P1.1_8:

(1, 5943), (3, 5949), (4, 5952), (5, 5955), (6, 5994), (9, 6003), (11, 6036), (Start: 16 @6099 has 43 MA's), (19, 6132), (22, 6204), (23, 6216), (26, 6288), (28, 6309), (30, 6351), (31, 6375), (32, 6378), (33, 6393), (35, 6426),

Gene: P100.1_8 Start: 6089, Stop: 6436, Start Num: 16

Candidate Starts for P100.1_8:

(11, 6026), (Start: 16 @6089 has 43 MA's), (18, 6119), (19, 6122), (21, 6164), (22, 6194), (23, 6206), (26, 6278), (30, 6341), (32, 6368), (33, 6383), (35, 6416),

Gene: P100A_8 Start: 6111, Stop: 6458, Start Num: 16

Candidate Starts for P100A_8:

(10, 6027), (11, 6048), (13, 6084), (14, 6087), (Start: 16 @6111 has 43 MA's), (18, 6141), (19, 6144), (22, 6216), (23, 6228), (25, 6246), (26, 6300), (27, 6303), (30, 6363), (31, 6387), (32, 6390), (33, 6405), (35, 6438),

Gene: P100D_8 Start: 6093, Stop: 6440, Start Num: 16

Candidate Starts for P100D_8:

(11, 6030), (Start: 16 @6093 has 43 MA's), (18, 6123), (19, 6126), (21, 6168), (22, 6198), (23, 6210), (26, 6282), (30, 6345), (31, 6369), (32, 6372), (33, 6387), (35, 6420),

Gene: P101A_8 Start: 6092, Stop: 6439, Start Num: 16

Candidate Starts for P101A_8:

(1, 5936), (3, 5942), (4, 5945), (5, 5948), (6, 5987), (9, 5996), (11, 6029), (Start: 16 @6092 has 43 MA's), (18, 6122), (19, 6125), (21, 6167), (22, 6197), (23, 6209), (26, 6281), (30, 6344), (31, 6368), (32, 6371), (33, 6386), (35, 6419),

Gene: P104A_8 Start: 6094, Stop: 6441, Start Num: 16

Candidate Starts for P104A_8:

(11, 6031), (Start: 16 @6094 has 43 MA's), (18, 6124), (19, 6127), (21, 6169), (22, 6199), (23, 6211), (26, 6283), (30, 6346), (32, 6373), (33, 6388), (35, 6421),

Gene: P104B_8 Start: 6098, Stop: 6445, Start Num: 16

Candidate Starts for P104B_8:

(11, 6035), (Start: 16 @6098 has 43 MA's), (18, 6128), (19, 6131), (22, 6203), (23, 6215), (26, 6287), (28, 6308), (30, 6350), (31, 6374), (32, 6377), (33, 6392), (35, 6425),

Gene: P105_8 Start: 6088, Stop: 6435, Start Num: 16

Candidate Starts for P105_8:

(11, 6025), (Start: 16 @6088 has 43 MA's), (18, 6118), (19, 6121), (21, 6163), (22, 6193), (23, 6205), (26, 6277), (28, 6298), (29, 6337), (30, 6340), (31, 6364), (32, 6367), (33, 6382), (35, 6415),

Gene: P106A_8 Start: 6116, Stop: 6463, Start Num: 16

Candidate Starts for P106A_8:

(1, 5960), (3, 5966), (4, 5969), (5, 5972), (9, 6020), (11, 6053), (Start: 16 @6116 has 43 MA's), (18, 6146), (19, 6149), (21, 6191), (22, 6221), (23, 6233), (26, 6305), (28, 6326), (30, 6368), (32, 6395), (33, 6410), (35, 6443),

Gene: P106C_8 Start: 6116, Stop: 6463, Start Num: 16

Candidate Starts for P106C_8:

(1, 5960), (3, 5966), (4, 5969), (5, 5972), (9, 6020), (11, 6053), (Start: 16 @6116 has 43 MA's), (18, 6146), (19, 6149), (21, 6191), (22, 6221), (23, 6233), (26, 6305), (28, 6326), (30, 6368), (32, 6395), (33, 6410), (35, 6443),

Gene: P106I_8 Start: 6116, Stop: 6463, Start Num: 16

Candidate Starts for P106I_8:

(1, 5960), (3, 5966), (4, 5969), (5, 5972), (9, 6020), (11, 6053), (Start: 16 @6116 has 43 MA's), (18, 6146), (19, 6149), (21, 6191), (22, 6221), (23, 6233), (26, 6305), (28, 6326), (30, 6368), (32, 6395), (33, 6410), (35, 6443),

Gene: P106L_8 Start: 6116, Stop: 6463, Start Num: 16

Candidate Starts for P106L_8:

(1, 5960), (3, 5966), (4, 5969), (5, 5972), (9, 6020), (11, 6053), (Start: 16 @6116 has 43 MA's), (18, 6146), (19, 6149), (21, 6191), (22, 6221), (23, 6233), (26, 6305), (28, 6326), (30, 6368), (32, 6395), (33, 6410), (35, 6443),

Gene: P106M_8 Start: 6116, Stop: 6463, Start Num: 16

Candidate Starts for P106M_8:

(1, 5960), (3, 5966), (4, 5969), (5, 5972), (9, 6020), (11, 6053), (Start: 16 @6116 has 43 MA's), (18, 6146), (19, 6149), (21, 6191), (22, 6221), (23, 6233), (26, 6305), (28, 6326), (30, 6368), (32, 6395), (33, 6410), (35, 6443),

Gene: P107A_8 Start: 6102, Stop: 6449, Start Num: 16

Candidate Starts for P107A_8:

(11, 6039), (14, 6078), (Start: 16 @6102 has 43 MA's), (18, 6132), (19, 6135), (22, 6207), (23, 6219), (25, 6237), (26, 6291), (27, 6294), (28, 6312), (30, 6354), (31, 6378), (32, 6381), (33, 6396), (35, 6429),

Gene: P107C_8 Start: 6098, Stop: 6445, Start Num: 16

Candidate Starts for P107C_8:

(11, 6035), (Start: 16 @6098 has 43 MA's), (18, 6128), (19, 6131), (21, 6173), (22, 6203), (23, 6215), (26, 6287), (28, 6308), (30, 6350), (31, 6374), (32, 6377), (33, 6392), (35, 6425),

Gene: P108C_8 Start: 6102, Stop: 6449, Start Num: 16

Candidate Starts for P108C_8:

(11, 6039), (Start: 16 @6102 has 43 MA's), (18, 6132), (19, 6135), (21, 6177), (23, 6219), (26, 6291), (28, 6312), (30, 6354), (31, 6378), (32, 6381), (33, 6396), (35, 6429),

Gene: P14.4_8 Start: 6093, Stop: 6440, Start Num: 16

Candidate Starts for P14.4_8:

(11, 6030), (Start: 16 @6093 has 43 MA's), (18, 6123), (19, 6126), (21, 6168), (22, 6198), (23, 6210), (26, 6282), (28, 6303), (30, 6345), (32, 6372), (33, 6387), (35, 6420),

Gene: P9.1_8 Start: 6091, Stop: 6438, Start Num: 16

Candidate Starts for P9.1_8:

(Start: 16 @6091 has 43 MA's), (18, 6121), (19, 6124), (21, 6166), (22, 6196), (23, 6208), (26, 6280), (28, 6301), (30, 6343), (31, 6367), (32, 6370), (33, 6385), (35, 6418),

Gene: PA6_8 Start: 6101, Stop: 6448, Start Num: 16

Candidate Starts for PA6_8:

(11, 6038), (13, 6074), (Start: 16 @6101 has 43 MA's), (18, 6131), (19, 6134), (21, 6176), (22, 6206), (23, 6218), (26, 6290), (28, 6311), (29, 6350), (32, 6380), (33, 6395), (35, 6428),

Gene: PAD20_8 Start: 6099, Stop: 6446, Start Num: 16

Candidate Starts for PAD20_8:

(Start: 16 @6099 has 43 MA's), (18, 6129), (19, 6132), (22, 6204), (23, 6216), (26, 6288), (30, 6351), (31, 6375), (32, 6378), (33, 6393), (35, 6426),

Gene: PAS50_8 Start: 6096, Stop: 6443, Start Num: 16

Candidate Starts for PAS50_8:

(11, 6033), (Start: 16 @6096 has 43 MA's), (18, 6126), (19, 6129), (21, 6171), (22, 6201), (23, 6213), (25, 6231), (26, 6285), (28, 6306), (30, 6348), (31, 6372), (32, 6375), (33, 6390), (35, 6423),

Gene: PHL010M04_08 Start: 6091, Stop: 6438, Start Num: 16

Candidate Starts for PHL010M04_08:

(1, 5935), (3, 5941), (5, 5947), (6, 5986), (9, 5995), (11, 6028), (Start: 16 @6091 has 43 MA's), (18, 6121), (19, 6124), (22, 6196), (23, 6208), (25, 6226), (26, 6280), (30, 6343), (31, 6367), (32, 6370), (33, 6385), (35, 6418),

Gene: PHL037M02_08 Start: 6097, Stop: 6444, Start Num: 16

Candidate Starts for PHL037M02_08:

(11, 6034), (Start: 16 @6097 has 43 MA's), (18, 6127), (19, 6130), (20, 6160), (22, 6202), (23, 6214), (26, 6286), (28, 6307), (29, 6346), (30, 6349), (32, 6376), (33, 6391), (35, 6424),

Gene: PHL060L00_08 Start: 6089, Stop: 6436, Start Num: 16

Candidate Starts for PHL060L00_08:

(1, 5933), (3, 5939), (4, 5942), (5, 5945), (6, 5984), (9, 5993), (11, 6026), (Start: 16 @6089 has 43 MA's), (18, 6119), (19, 6122), (21, 6164), (22, 6194), (23, 6206), (26, 6278), (28, 6299), (30, 6341), (31, 6365), (32, 6368), (33, 6383), (35, 6416),

Gene: PHL067M10_08 Start: 6093, Stop: 6440, Start Num: 16

Candidate Starts for PHL067M10_08:

(11, 6030), (Start: 16 @6093 has 43 MA's), (18, 6123), (19, 6126), (21, 6168), (22, 6198), (23, 6210), (26, 6282), (29, 6342), (30, 6345), (32, 6372), (33, 6387), (35, 6420),

Gene: PHL071N05_08 Start: 6095, Stop: 6442, Start Num: 16

Candidate Starts for PHL071N05_08:

(11, 6032), (Start: 16 @6095 has 43 MA's), (18, 6125), (19, 6128), (21, 6170), (23, 6212), (26, 6284), (28, 6305), (30, 6347), (31, 6371), (32, 6374), (33, 6389), (35, 6422),

Gene: PHL111M01_08 Start: 6099, Stop: 6446, Start Num: 16

Candidate Starts for PHL111M01_08:

(11, 6036), (Start: 16 @6099 has 43 MA's), (18, 6129), (19, 6132), (22, 6204), (23, 6216), (26, 6288), (30, 6351), (31, 6375), (32, 6378), (33, 6393), (35, 6426),

Gene: PHL112N00_08 Start: 6099, Stop: 6446, Start Num: 16

Candidate Starts for PHL112N00_08:

(11, 6036), (12, 6039), (Start: 16 @6099 has 43 MA's), (18, 6129), (19, 6132), (22, 6204), (23, 6216), (26, 6288), (28, 6309), (29, 6348), (30, 6351), (32, 6378), (33, 6393), (35, 6426),

Gene: PHL113M01_08 Start: 6099, Stop: 6446, Start Num: 16

Candidate Starts for PHL113M01_08:

(11, 6036), (Start: 16 @6099 has 43 MA's), (18, 6129), (19, 6132), (22, 6204), (23, 6216), (26, 6288), (28, 6309), (30, 6351), (32, 6378), (33, 6393), (35, 6426),

Gene: PHL114L00_08 Start: 6098, Stop: 6445, Start Num: 16

Candidate Starts for PHL114L00_08:

(2, 5945), (4, 5951), (5, 5954), (6, 5993), (7, 5996), (11, 6035), (14, 6074), (Start: 16 @6098 has 43 MA's), (17, 6125), (18, 6128), (19, 6131), (21, 6173), (22, 6203), (23, 6215), (30, 6350), (32, 6377), (33, 6392), (35, 6425),

Gene: Pirate_8 Start: 6091, Stop: 6438, Start Num: 16

Candidate Starts for Pirate_8:

(11, 6028), (Start: 16 @6091 has 43 MA's), (18, 6121), (19, 6124), (21, 6166), (23, 6208), (26, 6280), (28, 6301), (30, 6343), (31, 6367), (32, 6370), (33, 6385), (35, 6418),

Gene: Procrass1_8 Start: 6098, Stop: 6445, Start Num: 16

Candidate Starts for Procrass1_8:

(11, 6035), (Start: 16 @6098 has 43 MA's), (18, 6128), (19, 6131), (22, 6203), (23, 6215), (26, 6287), (28, 6308), (30, 6350), (31, 6374), (32, 6377), (33, 6392), (35, 6425),

Gene: QueenBey_8 Start: 6092, Stop: 6439, Start Num: 16

Candidate Starts for QueenBey_8:

(4, 5945), (5, 5948), (6, 5987), (7, 5990), (9, 5996), (10, 6008), (11, 6029), (14, 6068), (Start: 16 @6092 has 43 MA's), (18, 6122), (19, 6125), (20, 6155), (22, 6197), (23, 6209), (25, 6227), (26, 6281), (30, 6344), (31, 6368), (32, 6371), (33, 6386), (35, 6419),

Gene: Rileysaurus_8 Start: 6087, Stop: 6434, Start Num: 16

Candidate Starts for Rileysaurus_8:

(1, 5931), (5, 5943), (6, 5982), (7, 5985), (9, 5991), (11, 6024), (14, 6063), (Start: 16 @6087 has 43 MA's), (18, 6117), (19, 6120), (22, 6192), (23, 6204), (26, 6276), (30, 6339), (31, 6363), (32, 6366), (33, 6381), (35, 6414),

Gene: SKKY_8 Start: 6123, Stop: 6470, Start Num: 16

Candidate Starts for SKKY_8:

(1, 5967), (3, 5973), (4, 5976), (5, 5979), (6, 6018), (9, 6027), (11, 6060), (Start: 16 @6123 has 43 MA's), (18, 6153), (19, 6156), (21, 6198), (22, 6228), (23, 6240), (26, 6312), (28, 6333), (30, 6375), (32, 6402), (33, 6417), (35, 6450),

Gene: Solid_8 Start: 6099, Stop: 6446, Start Num: 16

Candidate Starts for Solid_8:

(11, 6036), (Start: 16 @6099 has 43 MA's), (18, 6129), (19, 6132), (21, 6174), (22, 6204), (23, 6216), (26, 6288), (28, 6309), (30, 6351), (31, 6375), (32, 6378), (33, 6393), (35, 6426),

Gene: Stormborn_8 Start: 6095, Stop: 6442, Start Num: 16

Candidate Starts for Stormborn_8:

(11, 6032), (Start: 16 @6095 has 43 MA's), (18, 6125), (19, 6128), (22, 6200), (23, 6212), (26, 6284), (28, 6305), (30, 6347), (31, 6371), (32, 6374), (33, 6389), (35, 6422),

Gene: Supernova_8 Start: 6091, Stop: 6438, Start Num: 16

Candidate Starts for Supernova_8:

(11, 6028), (Start: 16 @6091 has 43 MA's), (18, 6121), (19, 6124), (21, 6166), (22, 6196), (23, 6208), (26, 6280), (28, 6301), (30, 6343), (31, 6367), (32, 6370), (33, 6385), (35, 6418),

Gene: Wizzo_8 Start: 6103, Stop: 6450, Start Num: 16

Candidate Starts for Wizzo_8:

(11, 6040), (Start: 16 @6103 has 43 MA's), (18, 6133), (19, 6136), (21, 6178), (22, 6208), (23, 6220), (26, 6292), (28, 6313), (30, 6355), (31, 6379), (32, 6382), (33, 6397), (35, 6430),