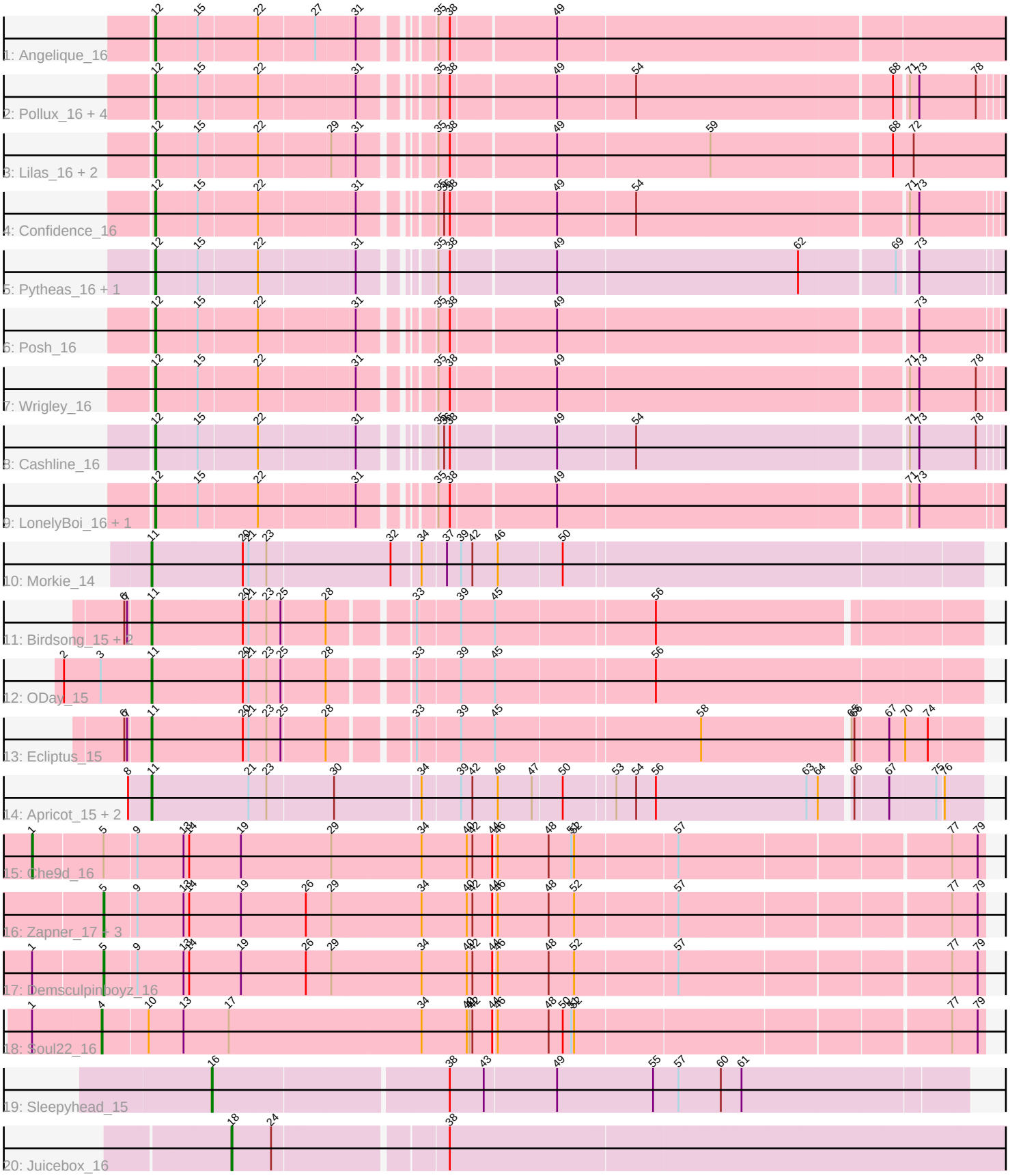
Pham 341104


1: Angelique_16
2: Pollux_16 + 4
3: Lilas_16 + 2
4: Confidence_16
5: Pytheas_16 + 1
6: Posh_16
7: Wrigley_16
8: Cashline_16
9: LonelyBoi_16 + 1
10: Morkie_14
11: Birdsong_15 + 2
12: ODay_15
13: Ecliptus_15
14: Apricot_15 + 2
15: Che9d_16
16: Zapner_17 + 3
17: Demsculpinboyz_16
18: Soul22_16
19: Sleepyhead_15
20: Juicebox_16

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 341104 Report

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

Pham number 341104 has 35 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Angelique_16
• Track 2 : Pollux_16, BritBrat_16, Floral_16, Marteena_16, EMsquaredA_16
• Track 3 : Lilas_16, EnalisNailo_16, Bradissa_16
• Track 4 : Confidence_16
• Track 5 : Pytheas_16, Jablanski_16
• Track 6 : Posh_16
• Track 7 : Wrigley_16
• Track 8 : Cashline_16
• Track 9 : LonelyBoi_16, BeeGee_16
• Track 10 : Morkie_14
• Track 11 : Birdsong_15, BearBQ_15, MortyNRick_15
• Track 12 : ODay_15
• Track 13 : Ecliptus_15
• Track 14 : Apricot_15, Crater_15, Kuwabara_15
• Track 15 : Che9d_16
• Track 16 : Zapner_17, Jabbawokkie_17, Yoshi_16, Avani_16
• Track 17 : Demsculpinboyz_16
• Track 18 : Soul22_16
• Track 19 : Sleepyhead_15
• Track 20 : Juicebox_16

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

The start number called the most often in the published annotations is 12, it was called in 17 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Angelique_16, BeeGee_16, Bradissa_16, BritBrat_16, Cashline_16, Confidence_16, EMsquaredA_16, EnalisNailo_16, Floral_16, Jablanski_16, Lilas_16, LonelyBoi_16, Marteena_16, Pollux_16, Posh_16, Pytheas_16, Wrigley_16,

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

Genes that do not have the "Most Annotated" start:
• Apricot_15, Avani_16, BearBQ_15, Birdsong_15, Che9d_16, Crater_15, Demsculpinboyz_16, Ecliptus_15, Jabbawokkie_17, Juicebox_16, Kuwabara_15, Morkie_14, MortyNRick_15, ODay_15, Sleepyhead_15, Soul22_16, Yoshi_16, Zapner_17,

Summary by start number:

Start 1:
• Found in 3 of 35 (8.6%) of genes in pham
• Manual Annotations of this start: 1 of 35
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Che9d_16 (F2),

Start 4:
• Found in 1 of 35 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Soul22_16 (F2),

Start 5:
• Found in 6 of 35 (17.1%) of genes in pham
• Manual Annotations of this start: 5 of 35
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Avani_16 (F2), Demsculpinboyz_16 (F2), Jabbawokkie_17 (F2), Yoshi_16 (F2), Zapner_17 (F2),

Start 11:
• Found in 9 of 35 (25.7%) of genes in pham
• Manual Annotations of this start: 9 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apricot_15 (DN3), BearBQ_15 (DN), Birdsong_15 (DN), Crater_15 (DN3), Ecliptus_15 (DN), Kuwabara_15 (DN4), Morkie_14 (DH), MortyNRick_15 (DN), ODay_15 (DN),

Start 12:
• Found in 17 of 35 (48.6%) of genes in pham
• Manual Annotations of this start: 17 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Angelique_16 (CY1), BeeGee_16 (CY5), Bradissa_16 (CY1), BritBrat_16 (CY2), Cashline_16 (CY6), Confidence_16 (CY1), EMsquaredA_16 (CY1), EnalisNailo_16 (CY1), Floral_16 (CY1), Jablanski_16 (CY3), Lilas_16 (CY1), LonelyBoi_16 (CY7), Marteena_16 (CY1), Pollux_16 (CY1), Posh_16 (CY4), Pytheas_16 (CY3), Wrigley_16 (CY4),

Start 16:
• Found in 1 of 35 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sleepyhead_15 (singleton),

Start 18:
• Found in 1 of 35 (2.9%) of genes in pham

• Manual Annotations of this start: 1 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Juicebox_16 (singleton),

Summary by clusters:

There are 13 clusters represented in this pham: CY3, DN, CY1, CY7, DH, CY5, CY4, F2, DN4, DN3, singleton, CY2, CY6,

Info for manual annotations of cluster CY1:
•Start number 12 was manually annotated 9 times for cluster CY1.

Info for manual annotations of cluster CY2:
•Start number 12 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY3:
•Start number 12 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:
•Start number 12 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CY5:
•Start number 12 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY6:
•Start number 12 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:
•Start number 12 was manually annotated 1 time for cluster CY7.

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

Info for manual annotations of cluster DN:
•Start number 11 was manually annotated 5 times for cluster DN.

Info for manual annotations of cluster DN3:
•Start number 11 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:
•Start number 11 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster F2:
•Start number 1 was manually annotated 1 time for cluster F2.
•Start number 4 was manually annotated 1 time for cluster F2.
•Start number 5 was manually annotated 5 times for cluster F2.

Gene Information:

Gene: Angelique_16 Start: 9687, Stop: 10513, Start Num: 12
Candidate Starts for Angelique_16:

(Start: 12 @9687 has 17 MA's), (15, 9726), (22, 9786), (27, 9843), (31, 9882), (35, 9939), (38, 9951), (49, 10056),

Gene: Apricot_15 Start: 8548, Stop: 9389, Start Num: 11
Candidate Starts for Apricot_15:
(8, 8527), (Start: 11 @8548 has 9 MA's), (21, 8650), (23, 8668), (30, 8737), (34, 8824), (39, 8863), (42, 8875), (46, 8902), (47, 8938), (50, 8968), (53, 9019), (54, 9040), (56, 9061), (63, 9220), (64, 9232), (66, 9262), (67, 9295), (75, 9343), (76, 9349),

Gene: Avani_16 Start: 8371, Stop: 9272, Start Num: 5
Candidate Starts for Avani_16:
(Start: 5 @8371 has 5 MA's), (9, 8404), (13, 8452), (14, 8458), (19, 8512), (26, 8581), (29, 8608), (34, 8701), (40, 8749), (42, 8755), (44, 8776), (46, 8779), (48, 8833), (52, 8860), (57, 8965), (77, 9238), (79, 9265),

Gene: BearBQ_15 Start: 8547, Stop: 9373, Start Num: 11
Candidate Starts for BearBQ_15:
(6, 8523), (7, 8526), (Start: 11 @8547 has 9 MA's), (20, 8643), (21, 8649), (23, 8667), (25, 8682), (28, 8727), (33, 8805), (39, 8847), (45, 8883), (56, 9045),

Gene: BeeGee_16 Start: 9683, Stop: 10503, Start Num: 12
Candidate Starts for BeeGee_16:
(Start: 12 @9683 has 17 MA's), (15, 9722), (22, 9782), (31, 9878), (35, 9935), (38, 9947), (49, 10052), (71, 10409), (73, 10418),

Gene: Birdsong_15 Start: 8547, Stop: 9373, Start Num: 11
Candidate Starts for Birdsong_15:
(6, 8523), (7, 8526), (Start: 11 @8547 has 9 MA's), (20, 8643), (21, 8649), (23, 8667), (25, 8682), (28, 8727), (33, 8805), (39, 8847), (45, 8883), (56, 9045),

Gene: Bradissa_16 Start: 9687, Stop: 10516, Start Num: 12
Candidate Starts for Bradissa_16:
(Start: 12 @9687 has 17 MA's), (15, 9726), (22, 9786), (29, 9858), (31, 9882), (35, 9939), (38, 9951), (49, 10056), (59, 10215), (68, 10401), (72, 10422),

Gene: BritBrat_16 Start: 9689, Stop: 10503, Start Num: 12
Candidate Starts for BritBrat_16:
(Start: 12 @9689 has 17 MA's), (15, 9728), (22, 9788), (31, 9884), (35, 9941), (38, 9953), (49, 10058), (54, 10139), (68, 10403), (71, 10415), (73, 10424), (78, 10481),

Gene: Cashline_16 Start: 9543, Stop: 10357, Start Num: 12
Candidate Starts for Cashline_16:
(Start: 12 @9543 has 17 MA's), (15, 9582), (22, 9642), (31, 9738), (35, 9795), (36, 9801), (38, 9807), (49, 9912), (54, 9993), (71, 10269), (73, 10278), (78, 10335),

Gene: Che9d_16 Start: 8307, Stop: 9280, Start Num: 1
Candidate Starts for Che9d_16:
(Start: 1 @8307 has 1 MA's), (Start: 5 @8379 has 5 MA's), (9, 8412), (13, 8460), (14, 8466), (19, 8520), (29, 8616), (34, 8709), (40, 8757), (42, 8763), (44, 8784), (46, 8787), (48, 8841), (51, 8865), (52, 8868), (57, 8973), (77, 9246), (79, 9273),

Gene: Confidence_16 Start: 9683, Stop: 10497, Start Num: 12
Candidate Starts for Confidence_16:

(Start: 12 @9683 has 17 MA's), (15, 9722), (22, 9782), (31, 9878), (35, 9935), (36, 9941), (38, 9947), (49, 10052), (54, 10133), (71, 10409), (73, 10418),

Gene: Crater_15 Start: 8548, Stop: 9389, Start Num: 11
Candidate Starts for Crater_15:
(8, 8527), (Start: 11 @8548 has 9 MA's), (21, 8650), (23, 8668), (30, 8737), (34, 8824), (39, 8863), (42, 8875), (46, 8902), (47, 8938), (50, 8968), (53, 9019), (54, 9040), (56, 9061), (63, 9220), (64, 9232), (66, 9262), (67, 9295), (75, 9343), (76, 9349),

Gene: Demsculpinboyz_16 Start: 8370, Stop: 9271, Start Num: 5
Candidate Starts for Demsculpinboyz_16:
(Start: 1 @8298 has 1 MA's), (Start: 5 @8370 has 5 MA's), (9, 8403), (13, 8451), (14, 8457), (19, 8511), (26, 8580), (29, 8607), (34, 8700), (40, 8748), (42, 8754), (44, 8775), (46, 8778), (48, 8832), (52, 8859), (57, 8964), (77, 9237), (79, 9264),

Gene: EMsquaredA_16 Start: 9689, Stop: 10503, Start Num: 12
Candidate Starts for EMsquaredA_16:
(Start: 12 @9689 has 17 MA's), (15, 9728), (22, 9788), (31, 9884), (35, 9941), (38, 9953), (49, 10058), (54, 10139), (68, 10403), (71, 10415), (73, 10424), (78, 10481),

Gene: Ecliptus_15 Start: 8276, Stop: 9102, Start Num: 11
Candidate Starts for Ecliptus_15:
(6, 8252), (7, 8255), (Start: 11 @8276 has 9 MA's), (20, 8372), (21, 8378), (23, 8396), (25, 8411), (28, 8456), (33, 8534), (39, 8576), (45, 8612), (58, 8822), (65, 8972), (66, 8975), (67, 9008), (70, 9023), (74, 9047),

Gene: EnalisNailo_16 Start: 9689, Stop: 10518, Start Num: 12
Candidate Starts for EnalisNailo_16:
(Start: 12 @9689 has 17 MA's), (15, 9728), (22, 9788), (29, 9860), (31, 9884), (35, 9941), (38, 9953), (49, 10058), (59, 10217), (68, 10403), (72, 10424),

Gene: Floral_16 Start: 9689, Stop: 10503, Start Num: 12
Candidate Starts for Floral_16:
(Start: 12 @9689 has 17 MA's), (15, 9728), (22, 9788), (31, 9884), (35, 9941), (38, 9953), (49, 10058), (54, 10139), (68, 10403), (71, 10415), (73, 10424), (78, 10481),

Gene: Jabbawokkie_17 Start: 8894, Stop: 9795, Start Num: 5
Candidate Starts for Jabbawokkie_17:
(Start: 5 @8894 has 5 MA's), (9, 8927), (13, 8975), (14, 8981), (19, 9035), (26, 9104), (29, 9131), (34, 9224), (40, 9272), (42, 9278), (44, 9299), (46, 9302), (48, 9356), (52, 9383), (57, 9488), (77, 9761), (79, 9788),

Gene: Jablanski_16 Start: 9536, Stop: 10353, Start Num: 12
Candidate Starts for Jablanski_16:
(Start: 12 @9536 has 17 MA's), (15, 9575), (22, 9635), (31, 9731), (35, 9788), (38, 9800), (49, 9905), (62, 10157), (69, 10253), (73, 10271),

Gene: Juicebox_16 Start: 10222, Stop: 11009, Start Num: 18
Candidate Starts for Juicebox_16:
(Start: 18 @10222 has 1 MA's), (24, 10264), (38, 10432),

Gene: Kuwabara_15 Start: 8548, Stop: 9389, Start Num: 11
Candidate Starts for Kuwabara_15:

(8, 8527), (Start: 11 @8548 has 9 MA's), (21, 8650), (23, 8668), (30, 8737), (34, 8824), (39, 8863), (42, 8875), (46, 8902), (47, 8938), (50, 8968), (53, 9019), (54, 9040), (56, 9061), (63, 9220), (64, 9232), (66, 9262), (67, 9295), (75, 9343), (76, 9349),

Gene: Lilas_16 Start: 9689, Stop: 10518, Start Num: 12
Candidate Starts for Lilas_16:
(Start: 12 @9689 has 17 MA's), (15, 9728), (22, 9788), (29, 9860), (31, 9884), (35, 9941), (38, 9953), (49, 10058), (59, 10217), (68, 10403), (72, 10424),

Gene: LonelyBoi_16 Start: 9536, Stop: 10353, Start Num: 12
Candidate Starts for LonelyBoi_16:
(Start: 12 @9536 has 17 MA's), (15, 9575), (22, 9635), (31, 9731), (35, 9788), (38, 9800), (49, 9905), (71, 10262), (73, 10271),

Gene: Marteena_16 Start: 9689, Stop: 10503, Start Num: 12
Candidate Starts for Marteena_16:
(Start: 12 @9689 has 17 MA's), (15, 9728), (22, 9788), (31, 9884), (35, 9941), (38, 9953), (49, 10058), (54, 10139), (68, 10403), (71, 10415), (73, 10424), (78, 10481),

Gene: Morkie_14 Start: 7759, Stop: 8609, Start Num: 11
Candidate Starts for Morkie_14:
(Start: 11 @7759 has 9 MA's), (20, 7855), (21, 7861), (23, 7879), (32, 8008), (34, 8035), (37, 8059), (39, 8074), (42, 8086), (46, 8113), (50, 8179),

Gene: MortyNRick_15 Start: 8547, Stop: 9373, Start Num: 11
Candidate Starts for MortyNRick_15:
(6, 8523), (7, 8526), (Start: 11 @8547 has 9 MA's), (20, 8643), (21, 8649), (23, 8667), (25, 8682), (28, 8727), (33, 8805), (39, 8847), (45, 8883), (56, 9045),

Gene: ODay_15 Start: 8273, Stop: 9108, Start Num: 11
Candidate Starts for ODay_15:
(2, 8183), (3, 8222), (Start: 11 @8273 has 9 MA's), (20, 8369), (21, 8375), (23, 8393), (25, 8408), (28, 8453), (33, 8531), (39, 8573), (45, 8609), (56, 8771),

Gene: Pollux_16 Start: 9689, Stop: 10503, Start Num: 12
Candidate Starts for Pollux_16:
(Start: 12 @9689 has 17 MA's), (15, 9728), (22, 9788), (31, 9884), (35, 9941), (38, 9953), (49, 10058), (54, 10139), (68, 10403), (71, 10415), (73, 10424), (78, 10481),

Gene: Posh_16 Start: 9689, Stop: 10503, Start Num: 12
Candidate Starts for Posh_16:
(Start: 12 @9689 has 17 MA's), (15, 9728), (22, 9788), (31, 9884), (35, 9941), (38, 9953), (49, 10058), (73, 10424),

Gene: Pytheas_16 Start: 9536, Stop: 10353, Start Num: 12
Candidate Starts for Pytheas_16:
(Start: 12 @9536 has 17 MA's), (15, 9575), (22, 9635), (31, 9731), (35, 9788), (38, 9800), (49, 9905), (62, 10157), (69, 10253), (73, 10271),

Gene: Sleepyhead_15 Start: 9319, Stop: 10097, Start Num: 16
Candidate Starts for Sleepyhead_15:
(Start: 16 @9319 has 1 MA's), (38, 9559), (43, 9595), (49, 9670), (55, 9772), (57, 9799), (60, 9844), (61, 9865),

Gene: Soul22_16 Start: 8369, Stop: 9270, Start Num: 4
Candidate Starts for Soul22_16:
(Start: 1 @8297 has 1 MA's), (Start: 4 @8369 has 1 MA's), (10, 8414), (13, 8450), (17, 8498), (34, 8699), (40, 8747), (41, 8750), (42, 8753), (44, 8774), (46, 8777), (48, 8831), (50, 8846), (51, 8855), (52, 8858), (77, 9236), (79, 9263),

Gene: Wrigley_16 Start: 9533, Stop: 10350, Start Num: 12
Candidate Starts for Wrigley_16:
(Start: 12 @9533 has 17 MA's), (15, 9572), (22, 9632), (31, 9728), (35, 9785), (38, 9797), (49, 9902), (71, 10259), (73, 10268), (78, 10325),

Gene: Yoshi_16 Start: 8370, Stop: 9271, Start Num: 5
Candidate Starts for Yoshi_16:
(Start: 5 @8370 has 5 MA's), (9, 8403), (13, 8451), (14, 8457), (19, 8511), (26, 8580), (29, 8607), (34, 8700), (40, 8748), (42, 8754), (44, 8775), (46, 8778), (48, 8832), (52, 8859), (57, 8964), (77, 9237), (79, 9264),

Gene: Zapner_17 Start: 8895, Stop: 9796, Start Num: 5
Candidate Starts for Zapner_17:
(Start: 5 @8895 has 5 MA's), (9, 8928), (13, 8976), (14, 8982), (19, 9036), (26, 9105), (29, 9132), (34, 9225), (40, 9273), (42, 9279), (44, 9300), (46, 9303), (48, 9357), (52, 9384), (57, 9489), (77, 9762), (79, 9789),