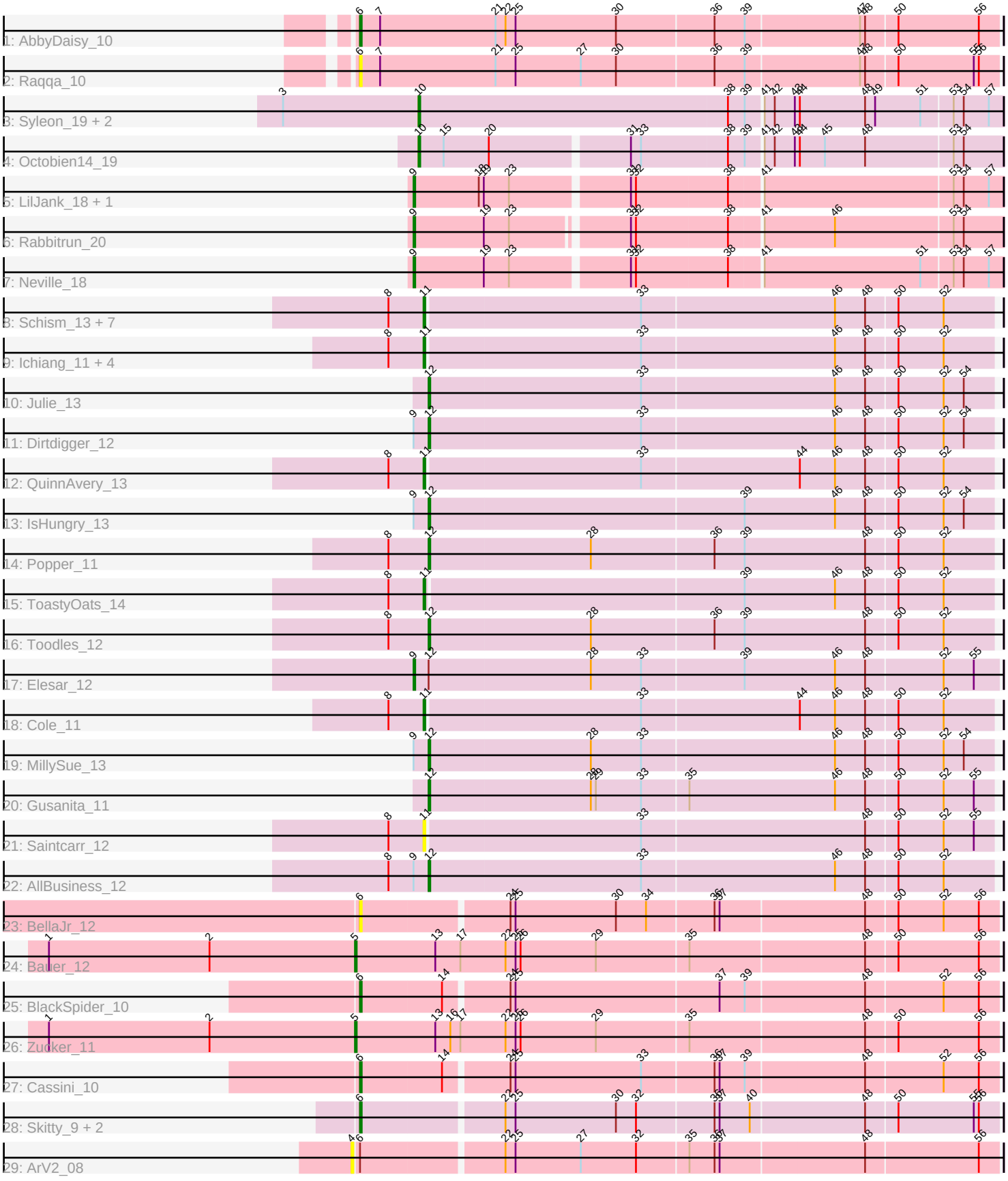
Pham 347758


1: AbbyDaisy_10
2: Raqqa_10
3: Syleon_19 + 2
4: Octobien14_19
5: LilJank_18 + 1
6: Rabbitrun_20
7: Neville_18
8: Schism_13 + 7
9: Ichiang_11 + 4
10: Julie_13
11: Dirtdigger_12
12: QuinnAvery_13
13: IsHungry_13
14: Popper_11
15: ToastyOats_14
16: Toodles_12
17: Elesar_12
18: Cole_11
19: MillySue_13
20: Gusanita_11
21: Saintcarr_12
22: AllBusiness_12
23: BellaJr_12
24: Bauer_12
25: BlackSpider_10
26: Zucker_11
27: Cassini_10
28: Skitty_9 + 2
29: ArV2_08

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 347758 Report

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

Pham number 347758 has 45 members, 7 are drafts.

Phages represented in each track:
• Track 1 : AbbyDaisy_10
• Track 2 : Raqqa_10
• Track 3 : Syleon_19, Sephiroth_19, Kudefre_18
• Track 4 : Octobien14_19
• Track 5 : LilJank_18, Trax_18
• Track 6 : Rabbitrun_20
• Track 7 : Neville_18
• Track 8 : Schism_13, BigSherm_13, Zaheer_13, GoodLuckBabe_13, Nandita_13, Guinevere_13, Lenoxika_13, Kihatsu_14
• Track 9 : Ichiang_11, Halloweekend_11, Yonex_13, Ryan_13, Donatella_12
• Track 10 : Julie_13
• Track 11 : Dirtdigger_12
• Track 12 : QuinnAvery_13
• Track 13 : IsHungry_13
• Track 14 : Popper_11
• Track 15 : ToastyOats_14
• Track 16 : Toodles_12
• Track 17 : Elesar_12
• Track 18 : Cole_11
• Track 19 : MillySue_13
• Track 20 : Gusanita_11
• Track 21 : Saintcarr_12
• Track 22 : AllBusiness_12
• Track 23 : BellaJr_12
• Track 24 : Bauer_12
• Track 25 : BlackSpider_10
• Track 26 : Zucker_11
• Track 27 : Cassini_10
• Track 28 : Skitty_9, Merpity_10, MrSmee_9
• Track 29 : ArV2_08

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

The start number called the most often in the published annotations is 11, it was called in 14 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BigSherm_13, Cole_11, Donatella_12, GoodLuckBabe_13, Guinevere_13, Halloweekend_11, Ichiang_11, Kihatsu_14, Lenoxika_13, Nandita_13, QuinnAvery_13, Ryan_13, Saintcarr_12, Schism_13, ToastyOats_14, Yonex_13, Zaheer_13,

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

Genes that do not have the "Most Annotated" start:
• AbbyDaisy_10, AllBusiness_12, ArV2_08, Bauer_12, BellaJr_12, BlackSpider_10, Cassini_10, Dirtdigger_12, Elesar_12, Gusanita_11, IsHungry_13, Julie_13, Kudefre_18, LilJank_18, Merpity_10, MillySue_13, MrSmee_9, Neville_18, Octobien14_19, Popper_11, Rabbitrun_20, Raqqa_10, Sephiroth_19, Skitty_9, Syleon_19, Toodles_12, Trax_18, Zucker_11,

Summary by start number:

Start 4:
• Found in 1 of 45 (2.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArV2_08 (singleton),

Start 5:
• Found in 2 of 45 (4.4%) of genes in pham
• Manual Annotations of this start: 2 of 38
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bauer_12 (FN), Zucker_11 (FN),

Start 6:
• Found in 9 of 45 (20.0%) of genes in pham
• Manual Annotations of this start: 5 of 38
• Called 88.9% of time when present
• Phage (with cluster) where this start called: AbbyDaisy_10 (AY), BellaJr_12 (FN), BlackSpider_10 (FN), Cassini_10 (FN), Merpity_10 (FQ1), MrSmee_9 (FQ1), Raqqa_10 (AY), Skitty_9 (FQ1),

Start 9:
• Found in 9 of 45 (20.0%) of genes in pham
• Manual Annotations of this start: 5 of 38
• Called 55.6% of time when present
• Phage (with cluster) where this start called: Elesar_12 (FF), LilJank_18 (DU2), Neville_18 (DU2), Rabbitrun_20 (DU2), Trax_18 (DU2),

Start 10:
• Found in 4 of 45 (8.9%) of genes in pham
• Manual Annotations of this start: 4 of 38
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Kudefre_18 (DU1), Octobien14_19 (DU1), Sephiroth_19 (DU1), Syleon_19 (DU1),

Start 11:
• Found in 17 of 45 (37.8%) of genes in pham
• Manual Annotations of this start: 14 of 38
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BigSherm_13 (FF), Cole_11 (FF), Donatella_12 (FF), GoodLuckBabe_13 (FF), Guinevere_13 (FF), Halloweekend_11 (FF), Ichiang_11 (FF), Kihatsu_14 (FF), Lenoxika_13 (FF), Nandita_13 (FF), QuinnAvery_13 (FF), Ryan_13 (FF), Saintcarr_12 (FF), Schism_13 (FF), ToastyOats_14 (FF), Yonex_13 (FF), Zaheer_13 (FF),

Start 12:
• Found in 9 of 45 (20.0%) of genes in pham
• Manual Annotations of this start: 8 of 38
• Called 88.9% of time when present
• Phage (with cluster) where this start called: AllBusiness_12 (FF), Dirtdigger_12 (FF), Gusanita_11 (FF), IsHungry_13 (FF), Julie_13 (FF), MillySue_13 (FF), Popper_11 (FF), Toodles_12 (FF),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, FF, AY, DU1, DU2, FQ1, FN,

Info for manual annotations of cluster AY:
•Start number 6 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster DU1:
•Start number 10 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:
•Start number 9 was manually annotated 4 times for cluster DU2.

Info for manual annotations of cluster FF:
•Start number 9 was manually annotated 1 time for cluster FF.
•Start number 11 was manually annotated 14 times for cluster FF.
•Start number 12 was manually annotated 8 times for cluster FF.

Info for manual annotations of cluster FN:
•Start number 5 was manually annotated 2 times for cluster FN.
•Start number 6 was manually annotated 2 times for cluster FN.

Info for manual annotations of cluster FQ1:
•Start number 6 was manually annotated 2 times for cluster FQ1.

Gene Information:

Gene: AbbyDaisy_10 Start: 6755, Stop: 7129, Start Num: 6
Candidate Starts for AbbyDaisy_10:

(Start: 6 @6755 has 5 MA's), (7, 6767), (21, 6836), (22, 6842), (25, 6848), (30, 6908), (36, 6965), (39, 6983), (47, 7049), (48, 7052), (50, 7070), (56, 7118),

Gene: AllBusiness_12 Start: 8235, Stop: 8567, Start Num: 12
Candidate Starts for AllBusiness_12:
(8, 8211), (Start: 9 @8226 has 5 MA's), (Start: 12 @8235 has 8 MA's), (33, 8361), (46, 8475), (48, 8493), (50, 8511), (52, 8538),

Gene: ArV2_08 Start: 6286, Stop: 6657, Start Num: 4
Candidate Starts for ArV2_08:
(4, 6286), (Start: 6 @6289 has 5 MA's), (22, 6370), (25, 6376), (27, 6415), (32, 6448), (35, 6478), (36, 6493), (37, 6496), (48, 6580), (56, 6646),

Gene: Bauer_12 Start: 8128, Stop: 8505, Start Num: 5
Candidate Starts for Bauer_12:
(1, 7945), (2, 8041), (Start: 5 @8128 has 2 MA's), (13, 8176), (17, 8191), (22, 8218), (25, 8224), (26, 8227), (29, 8272), (35, 8326), (48, 8428), (50, 8446), (56, 8494),

Gene: BellaJr_12 Start: 8172, Stop: 8540, Start Num: 6
Candidate Starts for BellaJr_12:
(Start: 6 @8172 has 5 MA's), (24, 8256), (25, 8259), (30, 8319), (34, 8337), (36, 8376), (37, 8379), (48, 8463), (50, 8481), (52, 8508), (56, 8529),

Gene: BigSherm_13 Start: 8181, Stop: 8513, Start Num: 11
Candidate Starts for BigSherm_13:
(8, 8160), (Start: 11 @8181 has 14 MA's), (33, 8307), (46, 8421), (48, 8439), (50, 8457), (52, 8484),

Gene: BlackSpider_10 Start: 7167, Stop: 7535, Start Num: 6
Candidate Starts for BlackSpider_10:
(Start: 6 @7167 has 5 MA's), (14, 7215), (24, 7251), (25, 7254), (37, 7374), (39, 7389), (48, 7458), (52, 7503), (56, 7524),

Gene: Cassini_10 Start: 7136, Stop: 7504, Start Num: 6
Candidate Starts for Cassini_10:
(Start: 6 @7136 has 5 MA's), (14, 7184), (24, 7220), (25, 7223), (33, 7298), (36, 7340), (37, 7343), (39, 7358), (48, 7427), (52, 7472), (56, 7493),

Gene: Cole_11 Start: 7840, Stop: 8172, Start Num: 11
Candidate Starts for Cole_11:
(8, 7819), (Start: 11 @7840 has 14 MA's), (33, 7966), (44, 8059), (46, 8080), (48, 8098), (50, 8116), (52, 8143),

Gene: Dirtdigger_12 Start: 8046, Stop: 8378, Start Num: 12
Candidate Starts for Dirtdigger_12:
(Start: 9 @8037 has 5 MA's), (Start: 12 @8046 has 8 MA's), (33, 8172), (46, 8286), (48, 8304), (50, 8322), (52, 8349), (54, 8361),

Gene: Donatella_12 Start: 8307, Stop: 8639, Start Num: 11
Candidate Starts for Donatella_12:
(8, 8286), (Start: 11 @8307 has 14 MA's), (33, 8433), (46, 8547), (48, 8565), (50, 8583), (52, 8610),

Gene: Elesar_12 Start: 8224, Stop: 8568, Start Num: 9
Candidate Starts for Elesar_12:

(Start: 9 @8224 has 5 MA's), (Start: 12 @8233 has 8 MA's), (28, 8329), (33, 8359), (39, 8419), (46, 8473), (48, 8491), (52, 8536), (55, 8554),

Gene: GoodLuckBabe_13 Start: 8135, Stop: 8467, Start Num: 11
Candidate Starts for GoodLuckBabe_13:
(8, 8114), (Start: 11 @8135 has 14 MA's), (33, 8261), (46, 8375), (48, 8393), (50, 8411), (52, 8438),

Gene: Guinevere_13 Start: 8166, Stop: 8498, Start Num: 11
Candidate Starts for Guinevere_13:
(8, 8145), (Start: 11 @8166 has 14 MA's), (33, 8292), (46, 8406), (48, 8424), (50, 8442), (52, 8469),

Gene: Gusanita_11 Start: 8057, Stop: 8389, Start Num: 12
Candidate Starts for Gusanita_11:
(Start: 12 @8057 has 8 MA's), (28, 8153), (29, 8156), (33, 8183), (35, 8210), (46, 8297), (48, 8315), (50, 8333), (52, 8360), (55, 8378),

Gene: Halloweekend_11 Start: 7807, Stop: 8139, Start Num: 11
Candidate Starts for Halloweekend_11:
(8, 7786), (Start: 11 @7807 has 14 MA's), (33, 7933), (46, 8047), (48, 8065), (50, 8083), (52, 8110),

Gene: Ichiang_11 Start: 7822, Stop: 8154, Start Num: 11
Candidate Starts for Ichiang_11:
(8, 7801), (Start: 11 @7822 has 14 MA's), (33, 7948), (46, 8062), (48, 8080), (50, 8098), (52, 8125),

Gene: IsHungry_13 Start: 8131, Stop: 8463, Start Num: 12
Candidate Starts for IsHungry_13:
(Start: 9 @8122 has 5 MA's), (Start: 12 @8131 has 8 MA's), (39, 8317), (46, 8371), (48, 8389), (50, 8407), (52, 8434), (54, 8446),

Gene: Julie_13 Start: 8394, Stop: 8726, Start Num: 12
Candidate Starts for Julie_13:
(Start: 12 @8394 has 8 MA's), (33, 8520), (46, 8634), (48, 8652), (50, 8670), (52, 8697), (54, 8709),

Gene: Kihatsu_14 Start: 8488, Stop: 8820, Start Num: 11
Candidate Starts for Kihatsu_14:
(8, 8467), (Start: 11 @8488 has 14 MA's), (33, 8614), (46, 8728), (48, 8746), (50, 8764), (52, 8791),

Gene: Kudefre_18 Start: 11111, Stop: 11452, Start Num: 10
Candidate Starts for Kudefre_18:
(3, 11030), (Start: 10 @11111 has 4 MA's), (38, 11294), (39, 11303), (41, 11312), (42, 11318), (43, 11330), (44, 11333), (48, 11372), (49, 11378), (51, 11405), (53, 11423), (54, 11429), (57, 11444),

Gene: Lenoxika_13 Start: 8168, Stop: 8500, Start Num: 11
Candidate Starts for Lenoxika_13:
(8, 8147), (Start: 11 @8168 has 14 MA's), (33, 8294), (46, 8408), (48, 8426), (50, 8444), (52, 8471),

Gene: LilJank_18 Start: 10973, Stop: 11311, Start Num: 9
Candidate Starts for LilJank_18:
(Start: 9 @10973 has 5 MA's), (18, 11012), (19, 11015), (23, 11030), (31, 11096), (32, 11099), (38, 11153), (41, 11171), (53, 11282), (54, 11288), (57, 11303),

Gene: Merpity_10 Start: 5923, Stop: 6291, Start Num: 6
Candidate Starts for Merpity_10:

(Start: 6 @5923 has 5 MA's), (22, 6004), (25, 6010), (30, 6070), (32, 6082), (36, 6127), (37, 6130), (40, 6148), (48, 6214), (50, 6232), (55, 6277), (56, 6280),

Gene: MillySue_13 Start: 8180, Stop: 8512, Start Num: 12
Candidate Starts for MillySue_13:
(Start: 9 @8171 has 5 MA's), (Start: 12 @8180 has 8 MA's), (28, 8276), (33, 8306), (46, 8420), (48, 8438), (50, 8456), (52, 8483), (54, 8495),

Gene: MrSmee_9 Start: 5923, Stop: 6291, Start Num: 6
Candidate Starts for MrSmee_9:
(Start: 6 @5923 has 5 MA's), (22, 6004), (25, 6010), (30, 6070), (32, 6082), (36, 6127), (37, 6130), (40, 6148), (48, 6214), (50, 6232), (55, 6277), (56, 6280),

Gene: Nandita_13 Start: 8166, Stop: 8498, Start Num: 11
Candidate Starts for Nandita_13:
(8, 8145), (Start: 11 @8166 has 14 MA's), (33, 8292), (46, 8406), (48, 8424), (50, 8442), (52, 8469),

Gene: Neville_18 Start: 10922, Stop: 11260, Start Num: 9
Candidate Starts for Neville_18:
(Start: 9 @10922 has 5 MA's), (19, 10964), (23, 10979), (31, 11045), (32, 11048), (38, 11102), (41, 11120), (51, 11213), (53, 11231), (54, 11237), (57, 11252),

Gene: Octobien14_19 Start: 12174, Stop: 12509, Start Num: 10
Candidate Starts for Octobien14_19:
(Start: 10 @12174 has 4 MA's), (15, 12189), (20, 12216), (31, 12294), (33, 12300), (38, 12351), (39, 12360), (41, 12369), (42, 12375), (43, 12387), (44, 12390), (45, 12405), (48, 12429), (53, 12480), (54, 12486),

Gene: Popper_11 Start: 7697, Stop: 8029, Start Num: 12
Candidate Starts for Popper_11:
(8, 7673), (Start: 12 @7697 has 8 MA's), (28, 7793), (36, 7865), (39, 7883), (48, 7955), (50, 7973), (52, 8000),

Gene: QuinnAvery_13 Start: 8181, Stop: 8513, Start Num: 11
Candidate Starts for QuinnAvery_13:
(8, 8160), (Start: 11 @8181 has 14 MA's), (33, 8307), (44, 8400), (46, 8421), (48, 8439), (50, 8457), (52, 8484),

Gene: Rabbitrun_20 Start: 11446, Stop: 11781, Start Num: 9
Candidate Starts for Rabbitrun_20:
(Start: 9 @11446 has 5 MA's), (19, 11488), (23, 11503), (31, 11566), (32, 11569), (38, 11623), (41, 11641), (46, 11683), (53, 11752), (54, 11758),

Gene: Raqqa_10 Start: 7063, Stop: 7437, Start Num: 6
Candidate Starts for Raqqa_10:
(Start: 6 @7063 has 5 MA's), (7, 7075), (21, 7144), (25, 7156), (27, 7195), (30, 7216), (36, 7273), (39, 7291), (47, 7357), (48, 7360), (50, 7378), (55, 7423), (56, 7426),

Gene: Ryan_13 Start: 8312, Stop: 8644, Start Num: 11
Candidate Starts for Ryan_13:
(8, 8291), (Start: 11 @8312 has 14 MA's), (33, 8438), (46, 8552), (48, 8570), (50, 8588), (52, 8615),

Gene: Saintcarr_12 Start: 8186, Stop: 8518, Start Num: 11

Candidate Starts for Saintcarr_12:
(8, 8165), (Start: 11 @8186 has 14 MA's), (33, 8312), (48, 8444), (50, 8462), (52, 8489), (55, 8507),

Gene: Schism_13 Start: 8166, Stop: 8498, Start Num: 11
Candidate Starts for Schism_13:
(8, 8145), (Start: 11 @8166 has 14 MA's), (33, 8292), (46, 8406), (48, 8424), (50, 8442), (52, 8469),

Gene: Sephiroth_19 Start: 11282, Stop: 11623, Start Num: 10
Candidate Starts for Sephiroth_19:
(3, 11201), (Start: 10 @11282 has 4 MA's), (38, 11465), (39, 11474), (41, 11483), (42, 11489), (43, 11501), (44, 11504), (48, 11543), (49, 11549), (51, 11576), (53, 11594), (54, 11600), (57, 11615),

Gene: Skitty_9 Start: 5923, Stop: 6291, Start Num: 6
Candidate Starts for Skitty_9:
(Start: 6 @5923 has 5 MA's), (22, 6004), (25, 6010), (30, 6070), (32, 6082), (36, 6127), (37, 6130), (40, 6148), (48, 6214), (50, 6232), (55, 6277), (56, 6280),

Gene: Syleon_19 Start: 11204, Stop: 11545, Start Num: 10
Candidate Starts for Syleon_19:
(3, 11123), (Start: 10 @11204 has 4 MA's), (38, 11387), (39, 11396), (41, 11405), (42, 11411), (43, 11423), (44, 11426), (48, 11465), (49, 11471), (51, 11498), (53, 11516), (54, 11522), (57, 11537),

Gene: ToastyOats_14 Start: 8535, Stop: 8867, Start Num: 11
Candidate Starts for ToastyOats_14:
(8, 8514), (Start: 11 @8535 has 14 MA's), (39, 8721), (46, 8775), (48, 8793), (50, 8811), (52, 8838),

Gene: Toodles_12 Start: 8267, Stop: 8599, Start Num: 12
Candidate Starts for Toodles_12:
(8, 8243), (Start: 12 @8267 has 8 MA's), (28, 8363), (36, 8435), (39, 8453), (48, 8525), (50, 8543), (52, 8570),

Gene: Trax_18 Start: 10922, Stop: 11260, Start Num: 9
Candidate Starts for Trax_18:
(Start: 9 @10922 has 5 MA's), (18, 10961), (19, 10964), (23, 10979), (31, 11045), (32, 11048), (38, 11102), (41, 11120), (53, 11231), (54, 11237), (57, 11252),

Gene: Yonex_13 Start: 8312, Stop: 8644, Start Num: 11
Candidate Starts for Yonex_13:
(8, 8291), (Start: 11 @8312 has 14 MA's), (33, 8438), (46, 8552), (48, 8570), (50, 8588), (52, 8615),

Gene: Zaheer_13 Start: 8401, Stop: 8733, Start Num: 11
Candidate Starts for Zaheer_13:
(8, 8380), (Start: 11 @8401 has 14 MA's), (33, 8527), (46, 8641), (48, 8659), (50, 8677), (52, 8704),

Gene: Zucker_11 Start: 7441, Stop: 7818, Start Num: 5
Candidate Starts for Zucker_11:
(1, 7258), (2, 7354), (Start: 5 @7441 has 2 MA's), (13, 7489), (16, 7498), (17, 7504), (22, 7531), (25, 7537), (26, 7540), (29, 7585), (35, 7639), (48, 7741), (50, 7759), (56, 7807),