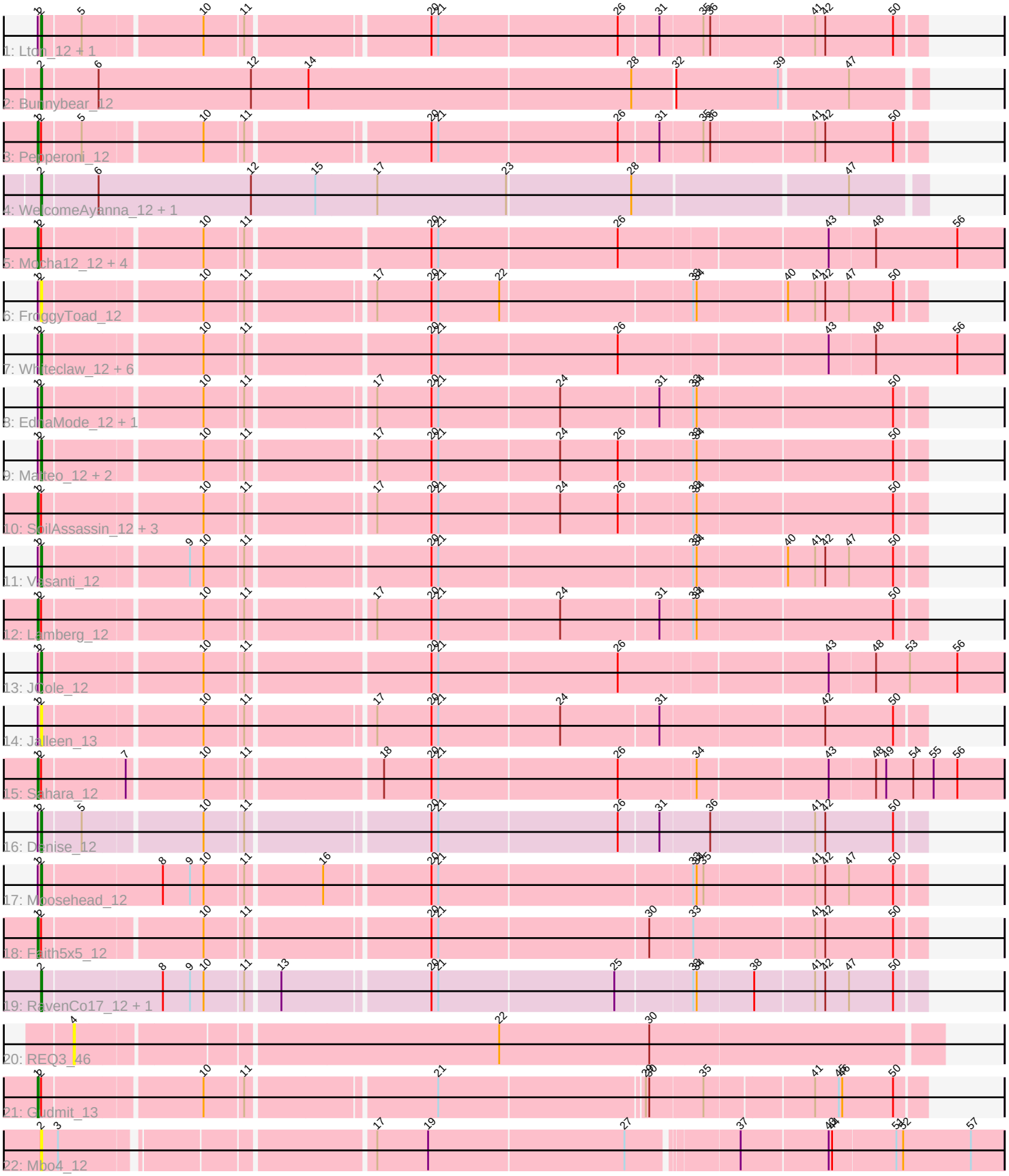
Pham 347783


1: Ltoh_12 + 1
2: Bunnybear_12
3: Pepperoni_12
4: WelcomeAyanna_12 + 1
5: Mocha12_12 + 4
6: FroggyToad_12
7: Whiteclaw_12 + 6
8: EdnaMode_12 + 1
9: Matteo_12 + 2
10: SoilAssassin_12 + 3
11: Vasanti_12
12: Lamberg_12
13: Jcole_12
14: Jalleen_13
15: Sahara_12
16: Denise_12
17: Moosehead_12
18: Faith5x5_12
19: RavenCo17_12 + 1
20: REQ3_46
21: Gudmit_13
22: Mbo4_12

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 347783 Report

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

Pham number 347783 has 41 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Lton_12, OneDirection_12
• Track 2 : Bunnybear_12
• Track 3 : Pepperoni_12
• Track 4 : WelcomeAyanna_12, ThankyouJordi_12
• Track 5 : Mocha12_12, Savage_12, TuertoX_12, Ebert_12, Sproutie_12
• Track 6 : FroggyToad_12
• Track 7 : Whiteclaw_12, Clap_12, Haley23_12, GemG_12, Cynthia_12, Gizermo_12, Yinzer_12
• Track 8 : EdnaMode_12, Nettuno_12
• Track 9 : Matteo_12, LordFarquaad_12, Pickett_12
• Track 10 : SoilAssassin_12, Bjanes7_12, Yeet412_12, Attis_12
• Track 11 : Vasanti_12
• Track 12 : Lamberg_12
• Track 13 : JCole_12
• Track 14 : Jalleen_13
• Track 15 : Sahara_12
• Track 16 : Denise_12
• Track 17 : Moosehead_12
• Track 18 : Faith5x5_12
• Track 19 : RavenCo17_12, Eyre_12
• Track 20 : REQ3_46
• Track 21 : Gudmit_13
• Track 22 : Mbo4_12

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

The start number called the most often in the published annotations is 2, it was called in 22 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bunnybear_12, Clap_12, Cynthia_12, Denise_12, EdnaMode_12, Eyre_12, FroggyToad_12, GemG_12, Gizermo_12, Haley23_12, JCole_12, Jalleen_13, LordFarquaad_12, Lton_12, Matteo_12, Mbo4_12, Moosehead_12, Nettuno_12, OneDirection_12, Pickett_12, RavenCo17_12, ThankyouJordi_12, Vasanti_12,

WelcomeAyanna_12, Whiteclaw_12, Yinzer_12,

Genes that have the "Most Annotated" start but do not call it:
• Attis_12, Bjanes7_12, Ebert_12, Faith5x5_12, Gudmit_13, Lamberg_12, Mocha12_12, Pepperoni_12, Sahara_12, Savage_12, SoilAssassin_12, Sproutie_12, TuertoX_12, Yeet412_12,

Genes that do not have the "Most Annotated" start:
• REQ3_46,

Summary by start number:

Start 1:
• Found in 34 of 41 (82.9%) of genes in pham
• Manual Annotations of this start: 14 of 36
• Called 41.2% of time when present
• Phage (with cluster) where this start called: Attis_12 (CZ2), Bjanes7_12 (CZ2), Ebert_12 (CZ2), Faith5x5_12 (CZ6), Gudmit_13 (singleton), Lamberg_12 (CZ2), Mocha12_12 (CZ2), Pepperoni_12 (CZ), Sahara_12 (CZ2), Savage_12 (CZ2), SoilAssassin_12 (CZ2), Sproutie_12 (CZ2), TuertoX_12 (CZ2), Yeet412_12 (CZ2),

Start 2:
• Found in 40 of 41 (97.6%) of genes in pham
• Manual Annotations of this start: 22 of 36
• Called 65.0% of time when present
• Phage (with cluster) where this start called: Bunnybear_12 (CZ), Clap_12 (CZ2), Cynthia_12 (CZ2), Denise_12 (CZ5), EdnaMode_12 (CZ2), Eyre_12 (singleton), FroggyToad_12 (CZ2), GemG_12 (CZ2), Gizermo_12 (CZ2), Haley23_12 (CZ2), JCole_12 (CZ2), Jalleen_13 (CZ2), LordFarquaad_12 (CZ2), Lton_12 (CZ), Matteo_12 (CZ2), Mbo4_12 (singleton), Moosehead_12 (CZ6), Nettuno_12 (CZ2), OneDirection_12 (CZ6), Pickett_12 (CZ2), RavenCo17_12 (CZ8), ThankyouJordi_12 (CZ1), Vasanti_12 (CZ2), WelcomeAyanna_12 (CZ1), Whiteclaw_12 (CZ2), Yinzer_12 (CZ2),

Start 4:
• Found in 1 of 41 (2.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: REQ3_46 (singleton),

Summary by clusters:

There are 7 clusters represented in this pham: CZ8, CZ2, CZ1, CZ6, singleton, CZ5, CZ,

Info for manual annotations of cluster CZ:
•Start number 1 was manually annotated 1 time for cluster CZ.
•Start number 2 was manually annotated 2 times for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 2 was manually annotated 2 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

•Start number 1 was manually annotated 11 times for cluster CZ2.
•Start number 2 was manually annotated 13 times for cluster CZ2.

Info for manual annotations of cluster CZ5:
•Start number 2 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:
•Start number 1 was manually annotated 1 time for cluster CZ6.
•Start number 2 was manually annotated 2 times for cluster CZ6.

Info for manual annotations of cluster CZ8:
•Start number 2 was manually annotated 1 time for cluster CZ8.

Gene Information:

Gene: Attis_12 Start: 7619, Stop: 8356, Start Num: 1
Candidate Starts for Attis_12:
(Start: 1 @7619 has 14 MA's), (Start: 2 @7622 has 22 MA's), (10, 7754), (11, 7787), (17, 7889), (20, 7937), (21, 7943), (24, 8048), (26, 8099), (33, 8159), (34, 8162), (50, 8330),

Gene: Bjanes7_12 Start: 7619, Stop: 8356, Start Num: 1
Candidate Starts for Bjanes7_12:
(Start: 1 @7619 has 14 MA's), (Start: 2 @7622 has 22 MA's), (10, 7754), (11, 7787), (17, 7889), (20, 7937), (21, 7943), (24, 8048), (26, 8099), (33, 8159), (34, 8162), (50, 8330),

Gene: Bunnybear_12 Start: 8469, Stop: 9230, Start Num: 2
Candidate Starts for Bunnybear_12:
(Start: 2 @8469 has 22 MA's), (6, 8517), (12, 8652), (14, 8703), (28, 8985), (32, 9021), (39, 9111), (47, 9168),

Gene: Clap_12 Start: 7619, Stop: 8428, Start Num: 2
Candidate Starts for Clap_12:
(Start: 1 @7616 has 14 MA's), (Start: 2 @7619 has 22 MA's), (10, 7751), (11, 7784), (20, 7937), (21, 7943), (26, 8099), (43, 8276), (48, 8315), (56, 8387),

Gene: Cynthia_12 Start: 7619, Stop: 8428, Start Num: 2
Candidate Starts for Cynthia_12:
(Start: 1 @7616 has 14 MA's), (Start: 2 @7619 has 22 MA's), (10, 7751), (11, 7784), (20, 7937), (21, 7943), (26, 8099), (43, 8276), (48, 8315), (56, 8387),

Gene: Denise_12 Start: 7635, Stop: 8369, Start Num: 2
Candidate Starts for Denise_12:
(Start: 1 @7632 has 14 MA's), (Start: 2 @7635 has 22 MA's), (5, 7668), (10, 7767), (11, 7800), (20, 7950), (21, 7956), (26, 8112), (31, 8145), (36, 8187), (41, 8274), (42, 8283), (50, 8343),

Gene: Ebert_12 Start: 7616, Stop: 8428, Start Num: 1
Candidate Starts for Ebert_12:
(Start: 1 @7616 has 14 MA's), (Start: 2 @7619 has 22 MA's), (10, 7751), (11, 7784), (20, 7937), (21, 7943), (26, 8099), (43, 8276), (48, 8315), (56, 8387),

Gene: EdnaMode_12 Start: 7622, Stop: 8356, Start Num: 2

Candidate Starts for EdnaMode_12:
(Start: 1 @7619 has 14 MA's), (Start: 2 @7622 has 22 MA's), (10, 7754), (11, 7787), (17, 7889), (20, 7937), (21, 7943), (24, 8048), (31, 8132), (33, 8159), (34, 8162), (50, 8330),

Gene: Eyre_12 Start: 8294, Stop: 9034, Start Num: 2
Candidate Starts for Eyre_12:
(Start: 2 @8294 has 22 MA's), (8, 8396), (9, 8420), (10, 8432), (11, 8465), (13, 8492), (20, 8615), (21, 8621), (25, 8774), (33, 8837), (34, 8840), (38, 8888), (41, 8939), (42, 8948), (47, 8969), (50, 9008),

Gene: Faith5x5_12 Start: 7591, Stop: 8328, Start Num: 1
Candidate Starts for Faith5x5_12:
(Start: 1 @7591 has 14 MA's), (Start: 2 @7594 has 22 MA's), (10, 7726), (11, 7759), (20, 7909), (21, 7915), (30, 8095), (33, 8131), (41, 8233), (42, 8242), (50, 8302),

Gene: FroggyToad_12 Start: 7638, Stop: 8372, Start Num: 2
Candidate Starts for FroggyToad_12:
(Start: 1 @7635 has 14 MA's), (Start: 2 @7638 has 22 MA's), (10, 7770), (11, 7803), (17, 7905), (20, 7953), (21, 7959), (22, 8013), (33, 8175), (34, 8178), (40, 8253), (41, 8277), (42, 8286), (47, 8307), (50, 8346),

Gene: GemG_12 Start: 7619, Stop: 8428, Start Num: 2
Candidate Starts for GemG_12:
(Start: 1 @7616 has 14 MA's), (Start: 2 @7619 has 22 MA's), (10, 7751), (11, 7784), (20, 7937), (21, 7943), (26, 8099), (43, 8276), (48, 8315), (56, 8387),

Gene: Gizermo_12 Start: 7619, Stop: 8428, Start Num: 2
Candidate Starts for Gizermo_12:
(Start: 1 @7616 has 14 MA's), (Start: 2 @7619 has 22 MA's), (10, 7751), (11, 7784), (20, 7937), (21, 7943), (26, 8099), (43, 8276), (48, 8315), (56, 8387),

Gene: Gudmit_13 Start: 8411, Stop: 9142, Start Num: 1
Candidate Starts for Gudmit_13:
(Start: 1 @8411 has 14 MA's), (Start: 2 @8414 has 22 MA's), (10, 8546), (11, 8579), (21, 8735), (29, 8909), (30, 8912), (35, 8957), (41, 9047), (45, 9068), (46, 9071), (50, 9116),

Gene: Haley23_12 Start: 7619, Stop: 8428, Start Num: 2
Candidate Starts for Haley23_12:
(Start: 1 @7616 has 14 MA's), (Start: 2 @7619 has 22 MA's), (10, 7751), (11, 7784), (20, 7937), (21, 7943), (26, 8099), (43, 8276), (48, 8315), (56, 8387),

Gene: JCole_12 Start: 7619, Stop: 8428, Start Num: 2
Candidate Starts for JCole_12:
(Start: 1 @7616 has 14 MA's), (Start: 2 @7619 has 22 MA's), (10, 7751), (11, 7784), (20, 7937), (21, 7943), (26, 8099), (43, 8276), (48, 8315), (53, 8345), (56, 8387),

Gene: Jalleen_13 Start: 7622, Stop: 8356, Start Num: 2
Candidate Starts for Jalleen_13:
(Start: 1 @7619 has 14 MA's), (Start: 2 @7622 has 22 MA's), (10, 7754), (11, 7787), (17, 7889), (20, 7937), (21, 7943), (24, 8048), (31, 8132), (42, 8270), (50, 8330),

Gene: Lamberg_12 Start: 7619, Stop: 8356, Start Num: 1
Candidate Starts for Lamberg_12:

(Start: 1 @7619 has 14 MA's), (Start: 2 @7622 has 22 MA's), (10, 7754), (11, 7787), (17, 7889), (20, 7937), (21, 7943), (24, 8048), (31, 8132), (33, 8159), (34, 8162), (50, 8330),

Gene: LordFarquaad_12 Start: 7622, Stop: 8356, Start Num: 2
Candidate Starts for LordFarquaad_12:
(Start: 1 @7619 has 14 MA's), (Start: 2 @7622 has 22 MA's), (10, 7754), (11, 7787), (17, 7889), (20, 7937), (21, 7943), (24, 8048), (26, 8099), (33, 8159), (34, 8162), (50, 8330),

Gene: Lton_12 Start: 7651, Stop: 8385, Start Num: 2
Candidate Starts for Lton_12:
(Start: 1 @7648 has 14 MA's), (Start: 2 @7651 has 22 MA's), (5, 7684), (10, 7783), (11, 7816), (20, 7966), (21, 7972), (26, 8128), (31, 8161), (35, 8197), (36, 8203), (41, 8290), (42, 8299), (50, 8359),

Gene: Matteo_12 Start: 7622, Stop: 8356, Start Num: 2
Candidate Starts for Matteo_12:
(Start: 1 @7619 has 14 MA's), (Start: 2 @7622 has 22 MA's), (10, 7754), (11, 7787), (17, 7889), (20, 7937), (21, 7943), (24, 8048), (26, 8099), (33, 8159), (34, 8162), (50, 8330),

Gene: Mbo4_12 Start: 8308, Stop: 9102, Start Num: 2
Candidate Starts for Mbo4_12:
(Start: 2 @8308 has 22 MA's), (3, 8323), (17, 8572), (19, 8617), (27, 8788), (37, 8875), (43, 8950), (44, 8953), (51, 9007), (52, 9013), (57, 9073),

Gene: Mocha12_12 Start: 7616, Stop: 8428, Start Num: 1
Candidate Starts for Mocha12_12:
(Start: 1 @7616 has 14 MA's), (Start: 2 @7619 has 22 MA's), (10, 7751), (11, 7784), (20, 7937), (21, 7943), (26, 8099), (43, 8276), (48, 8315), (56, 8387),

Gene: Moosehead_12 Start: 7591, Stop: 8331, Start Num: 2
Candidate Starts for Moosehead_12:
(Start: 1 @7588 has 14 MA's), (Start: 2 @7591 has 22 MA's), (8, 7693), (9, 7717), (10, 7729), (11, 7762), (16, 7825), (20, 7912), (21, 7918), (33, 8134), (34, 8137), (35, 8143), (41, 8236), (42, 8245), (47, 8266), (50, 8305),

Gene: Nettuno_12 Start: 7622, Stop: 8356, Start Num: 2
Candidate Starts for Nettuno_12:
(Start: 1 @7619 has 14 MA's), (Start: 2 @7622 has 22 MA's), (10, 7754), (11, 7787), (17, 7889), (20, 7937), (21, 7943), (24, 8048), (31, 8132), (33, 8159), (34, 8162), (50, 8330),

Gene: OneDirection_12 Start: 7595, Stop: 8329, Start Num: 2
Candidate Starts for OneDirection_12:
(Start: 1 @7592 has 14 MA's), (Start: 2 @7595 has 22 MA's), (5, 7628), (10, 7727), (11, 7760), (20, 7910), (21, 7916), (26, 8072), (31, 8105), (35, 8141), (36, 8147), (41, 8234), (42, 8243), (50, 8303),

Gene: Pepperoni_12 Start: 7942, Stop: 8679, Start Num: 1
Candidate Starts for Pepperoni_12:
(Start: 1 @7942 has 14 MA's), (Start: 2 @7945 has 22 MA's), (5, 7978), (10, 8077), (11, 8110), (20, 8260), (21, 8266), (26, 8422), (31, 8455), (35, 8491), (36, 8497), (41, 8584), (42, 8593), (50, 8653),

Gene: Pickett_12 Start: 7622, Stop: 8356, Start Num: 2
Candidate Starts for Pickett_12:
(Start: 1 @7619 has 14 MA's), (Start: 2 @7622 has 22 MA's), (10, 7754), (11, 7787), (17, 7889), (20, 7937), (21, 7943), (24, 8048), (26, 8099), (33, 8159), (34, 8162), (50, 8330),

Gene: REQ3_46 Start: 25028, Stop: 25765, Start Num: 4
Candidate Starts for REQ3_46:
(4, 25028), (22, 25382), (30, 25514),

Gene: RavenCo17_12 Start: 8475, Stop: 9215, Start Num: 2
Candidate Starts for RavenCo17_12:
(Start: 2 @8475 has 22 MA's), (8, 8577), (9, 8601), (10, 8613), (11, 8646), (13, 8673), (20, 8796), (21, 8802), (25, 8955), (33, 9018), (34, 9021), (38, 9069), (41, 9120), (42, 9129), (47, 9150), (50, 9189),

Gene: Sahara_12 Start: 7633, Stop: 8445, Start Num: 1
Candidate Starts for Sahara_12:
(Start: 1 @7633 has 14 MA's), (Start: 2 @7636 has 22 MA's), (7, 7705), (10, 7768), (11, 7801), (18, 7912), (20, 7954), (21, 7960), (26, 8116), (34, 8182), (43, 8293), (48, 8332), (49, 8341), (54, 8365), (55, 8383), (56, 8404),

Gene: Savage_12 Start: 7616, Stop: 8428, Start Num: 1
Candidate Starts for Savage_12:
(Start: 1 @7616 has 14 MA's), (Start: 2 @7619 has 22 MA's), (10, 7751), (11, 7784), (20, 7937), (21, 7943), (26, 8099), (43, 8276), (48, 8315), (56, 8387),

Gene: SoilAssassin_12 Start: 7619, Stop: 8356, Start Num: 1
Candidate Starts for SoilAssassin_12:
(Start: 1 @7619 has 14 MA's), (Start: 2 @7622 has 22 MA's), (10, 7754), (11, 7787), (17, 7889), (20, 7937), (21, 7943), (24, 8048), (26, 8099), (33, 8159), (34, 8162), (50, 8330),

Gene: Sproutie_12 Start: 7616, Stop: 8428, Start Num: 1
Candidate Starts for Sproutie_12:
(Start: 1 @7616 has 14 MA's), (Start: 2 @7619 has 22 MA's), (10, 7751), (11, 7784), (20, 7937), (21, 7943), (26, 8099), (43, 8276), (48, 8315), (56, 8387),

Gene: ThankyouJordi_12 Start: 8476, Stop: 9237, Start Num: 2
Candidate Starts for ThankyouJordi_12:
(Start: 2 @8476 has 22 MA's), (6, 8524), (12, 8659), (15, 8716), (17, 8770), (23, 8884), (28, 8992), (47, 9175),

Gene: TuertoX_12 Start: 7616, Stop: 8428, Start Num: 1
Candidate Starts for TuertoX_12:
(Start: 1 @7616 has 14 MA's), (Start: 2 @7619 has 22 MA's), (10, 7751), (11, 7784), (20, 7937), (21, 7943), (26, 8099), (43, 8276), (48, 8315), (56, 8387),

Gene: Vasanti_12 Start: 7641, Stop: 8375, Start Num: 2
Candidate Starts for Vasanti_12:
(Start: 1 @7638 has 14 MA's), (Start: 2 @7641 has 22 MA's), (9, 7761), (10, 7773), (11, 7806), (20, 7956), (21, 7962), (33, 8178), (34, 8181), (40, 8256), (41, 8280), (42, 8289), (47, 8310), (50, 8349),

Gene: WelcomeAyanna_12 Start: 8476, Stop: 9237, Start Num: 2
Candidate Starts for WelcomeAyanna_12:
(Start: 2 @8476 has 22 MA's), (6, 8524), (12, 8659), (15, 8716), (17, 8770), (23, 8884), (28, 8992), (47, 9175),

Gene: Whiteclaw_12 Start: 7619, Stop: 8428, Start Num: 2
Candidate Starts for Whiteclaw_12:

(Start: 1 @7616 has 14 MA's), (Start: 2 @7619 has 22 MA's), (10, 7751), (11, 7784), (20, 7937), (21, 7943), (26, 8099), (43, 8276), (48, 8315), (56, 8387),

Gene: Yeet412_12 Start: 7619, Stop: 8356, Start Num: 1
Candidate Starts for Yeet412_12:
(Start: 1 @7619 has 14 MA's), (Start: 2 @7622 has 22 MA's), (10, 7754), (11, 7787), (17, 7889), (20, 7937), (21, 7943), (24, 8048), (26, 8099), (33, 8159), (34, 8162), (50, 8330),

Gene: Yinzer_12 Start: 7619, Stop: 8428, Start Num: 2
Candidate Starts for Yinzer_12:
(Start: 1 @7616 has 14 MA's), (Start: 2 @7619 has 22 MA's), (10, 7751), (11, 7784), (20, 7937), (21, 7943), (26, 8099), (43, 8276), (48, 8315), (56, 8387),