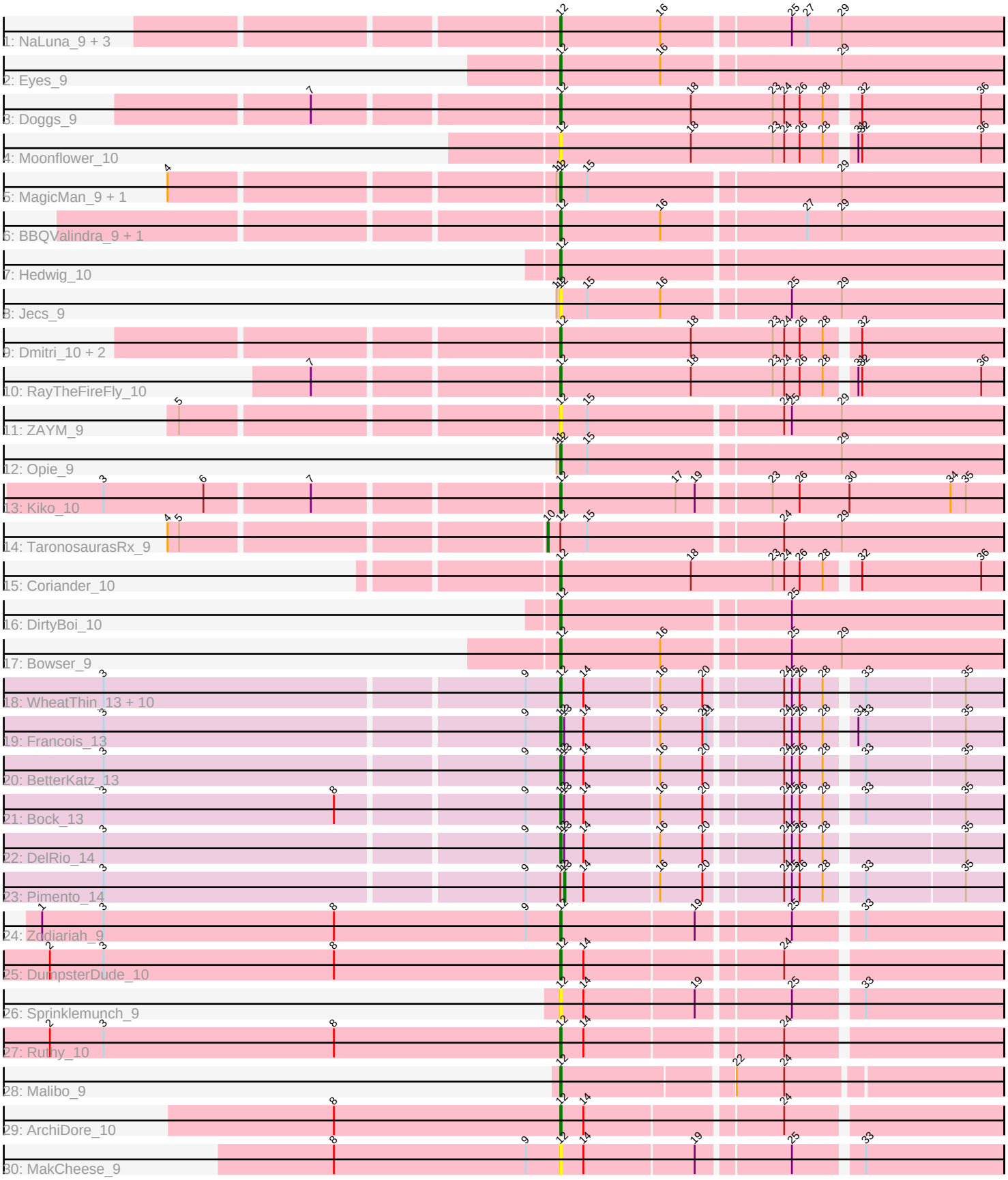
Pham 345852


1: NaLuna_9 + 3
2: Eyes_9
3: Doggs_9
4: Moonflower_10
5: MagicMan_9 + 1
6: BBQValindra_9 + 1
7: Hedwig_10
8: Jecs_9
9: Dmitri_10 + 2
10: RayTheFireFly_10
11: ZAYM_9
12: Opie_9
13: Kiko_10
14: TaronosaurasRx_9
15: Coriander_10
16: DirtyBoi_10
17: Bowser_9
18: WheatThin_13 + 10
19: Francois_13
20: BetterKatz_13
21: Bock_13
22: DelRio_14
23: Pimento_14
24: Zoodiariah_9
25: DumpsterDude_10
26: Sprinklemunch_9
27: Ruthy_10
28: Malibo_9
29: ArchiDore_10
30: MakCheese_9

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 345852 Report

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

Pham number 345852 has 47 members, 9 are drafts.

Phages represented in each track:
- Track 1 : NaLuna_9, HannahD_9, BackstagePass_9, GEazy_9
- Track 2 : Eyes_9
- Track 3 : Doggs_9
- Track 4 : Moonflower_10
- Track 5 : MagicMan_9, Schnabeltier_9
- Track 6 : BBQValindra_9, Bunker_9
- Track 7 : Hedwig_10
- Track 8 : Jecs_9
- Track 9 : Dmitri_10, Chipko_10, PatriciaStar_9
- Track 10 : RayTheFireFly_10
- Track 11 : ZAYM_9
- Track 12 : Opie_9
- Track 13 : Kiko_10
- Track 14 : TaronosaurasRx_9
- Track 15 : Coriander_10
- Track 16 : DirtyBoi_10
- Track 17 : Bowser_9
- Track 18 : WheatThin_13, Nadeem_13, Chop_13, Brylie_13, Parada_13, Hamood_13, Mulch_13, GrandSlam_13, NancyRae_13, Ayotoya_13, SussRoloMann_13
- Track 19 : Francois_13
- Track 20 : BetterKatz_13
- Track 21 : Bock_13
- Track 22 : DelRio_14
- Track 23 : Pimento_14
- Track 24 : Zodiariah_9
- Track 25 : DumpsterDude_10
- Track 26 : Sprinklemunch_9
- Track 27 : Ruthy_10
- Track 28 : Malibo_9
- Track 29 : ArchiDore_10
- Track 30 : MakCheese_9

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 36 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ArchiDore_10, Ayotoya_13, BBQValindra_9, BackstagePass_9, BetterKatz_13, Bock_13, Bowser_9, Brylie_13, Bunker_9, Chipko_10, Chop_13, Coriander_10, DelRio_14, DirtyBoi_10, Dmitri_10, Doggs_9, DumpsterDude_10, Eyes_9, Francois_13, GEazy_9, GrandSlam_13, Hamood_13, HannahD_9, Hedwig_10, Jecs_9, Kiko_10, MagicMan_9, MakCheese_9, Malibo_9, Moonflower_10, Mulch_13, NaLuna_9, Nadeem_13, NancyRae_13, Opie_9, Parada_13, PatriciaStar_9, RayTheFireFly_10, Ruthy_10, Schnabeltier_9, Sprinklemunch_9, SussRoloMann_13, WheatThin_13, ZAYM_9, Zodiariah_9,

Genes that have the "Most Annotated" start but do not call it:
• Pimento_14, TaronosaurasRx_9,

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

Summary by start number:

Start 10:
• Found in 1 of 47 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 38
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TaronosaurasRx_9 (DB),

Start 12:
• Found in 47 of 47 (100.0%) of genes in pham
• Manual Annotations of this start: 36 of 38
• Called 95.7% of time when present
• Phage (with cluster) where this start called: ArchiDore_10 (DW), Ayotoya_13 (DI), BBQValindra_9 (DB), BackstagePass_9 (DB), BetterKatz_13 (DI), Bock_13 (DI), Bowser_9 (DB), Brylie_13 (DI), Bunker_9 (DB), Chipko_10 (DB), Chop_13 (DI), Coriander_10 (DB), DelRio_14 (DI), DirtyBoi_10 (DB), Dmitri_10 (DB), Doggs_9 (DB), DumpsterDude_10 (DW), Eyes_9 (DB), Francois_13 (DI), GEazy_9 (DB), GrandSlam_13 (DI), Hamood_13 (DI), HannahD_9 (DB), Hedwig_10 (DB), Jecs_9 (DB), Kiko_10 (DB), MagicMan_9 (DB), MakCheese_9 (DW), Malibo_9 (DW), Moonflower_10 (DB), Mulch_13 (DI), NaLuna_9 (DB), Nadeem_13 (DI), NancyRae_13 (DI), Opie_9 (DB), Parada_13 (DI), PatriciaStar_9 (DB), RayTheFireFly_10 (DB), Ruthy_10 (DW), Schnabeltier_9 (DB), Sprinklemunch_9 (DW), SussRoloMann_13 (DI), WheatThin_13 (DI), ZAYM_9 (DB), Zodiariah_9 (DW),

Start 13:
• Found in 5 of 47 (10.6%) of genes in pham
• Manual Annotations of this start: 1 of 38
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Pimento_14 (DI),

Summary by clusters:

There are 3 clusters represented in this pham: DW, DB, DI,

Info for manual annotations of cluster DB:
•Start number 10 was manually annotated 1 time for cluster DB.
•Start number 12 was manually annotated 17 times for cluster DB.

Info for manual annotations of cluster DI:
•Start number 12 was manually annotated 14 times for cluster DI.
•Start number 13 was manually annotated 1 time for cluster DI.

Info for manual annotations of cluster DW:
•Start number 12 was manually annotated 5 times for cluster DW.

Gene Information:

Gene: ArchiDore_10 Start: 7354, Stop: 7677, Start Num: 12
Candidate Starts for ArchiDore_10:
(8, 7177), (Start: 12 @7354 has 36 MA's), (14, 7372), (24, 7516),

Gene: Ayotoya_13 Start: 8911, Stop: 9231, Start Num: 12
Candidate Starts for Ayotoya_13:
(3, 8566), (9, 8884), (Start: 12 @8911 has 36 MA's), (14, 8929), (16, 8986), (20, 9019), (24, 9073), (25, 9079), (26, 9085), (28, 9103), (33, 9127), (35, 9202),

Gene: BBQValindra_9 Start: 6868, Stop: 7203, Start Num: 12
Candidate Starts for BBQValindra_9:
(Start: 12 @6868 has 36 MA's), (16, 6946), (27, 7051), (29, 7078),

Gene: BackstagePass_9 Start: 6845, Stop: 7180, Start Num: 12
Candidate Starts for BackstagePass_9:
(Start: 12 @6845 has 36 MA's), (16, 6923), (25, 7016), (27, 7028), (29, 7055),

Gene: BetterKatz_13 Start: 8879, Stop: 9199, Start Num: 12
Candidate Starts for BetterKatz_13:
(3, 8534), (9, 8852), (Start: 12 @8879 has 36 MA's), (Start: 13 @8882 has 1 MA's), (14, 8897), (16, 8954), (20, 8987), (24, 9041), (25, 9047), (26, 9053), (28, 9071), (33, 9095), (35, 9170),

Gene: Bock_13 Start: 8629, Stop: 8949, Start Num: 12
Candidate Starts for Bock_13:
(3, 8284), (8, 8464), (9, 8602), (Start: 12 @8629 has 36 MA's), (Start: 13 @8632 has 1 MA's), (14, 8647), (16, 8704), (20, 8737), (24, 8791), (25, 8797), (26, 8803), (28, 8821), (33, 8845), (35, 8920),

Gene: Bowser_9 Start: 6866, Stop: 7201, Start Num: 12
Candidate Starts for Bowser_9:
(Start: 12 @6866 has 36 MA's), (16, 6944), (25, 7037), (29, 7076),

Gene: Brylie_13 Start: 8626, Stop: 8946, Start Num: 12
Candidate Starts for Brylie_13:
(3, 8281), (9, 8599), (Start: 12 @8626 has 36 MA's), (14, 8644), (16, 8701), (20, 8734), (24, 8788), (25, 8794), (26, 8800), (28, 8818), (33, 8842), (35, 8917),

Gene: Bunker_9 Start: 6868, Stop: 7203, Start Num: 12

Candidate Starts for Bunker_9:
(Start: 12 @6868 has 36 MA's), (16, 6946), (27, 7051), (29, 7078),

Gene: Chipko_10 Start: 7266, Stop: 7601, Start Num: 12
Candidate Starts for Chipko_10:
(Start: 12 @7266 has 36 MA's), (18, 7368), (23, 7431), (24, 7440), (26, 7452), (28, 7470), (32, 7491),

Gene: Chop_13 Start: 8659, Stop: 8979, Start Num: 12
Candidate Starts for Chop_13:
(3, 8314), (9, 8632), (Start: 12 @8659 has 36 MA's), (14, 8677), (16, 8734), (20, 8767), (24, 8821), (25, 8827), (26, 8833), (28, 8851), (33, 8875), (35, 8950),

Gene: Coriander_10 Start: 7265, Stop: 7600, Start Num: 12
Candidate Starts for Coriander_10:
(Start: 12 @7265 has 36 MA's), (18, 7367), (23, 7430), (24, 7439), (26, 7451), (28, 7469), (32, 7490), (36, 7583),

Gene: DelRio_14 Start: 9136, Stop: 9456, Start Num: 12
Candidate Starts for DelRio_14:
(3, 8791), (9, 9109), (Start: 12 @9136 has 36 MA's), (Start: 13 @9139 has 1 MA's), (14, 9154), (16, 9211), (20, 9244), (24, 9298), (25, 9304), (26, 9310), (28, 9328), (35, 9427),

Gene: DirtyBoi_10 Start: 7238, Stop: 7573, Start Num: 12
Candidate Starts for DirtyBoi_10:
(Start: 12 @7238 has 36 MA's), (25, 7409),

Gene: Dmitri_10 Start: 7247, Stop: 7582, Start Num: 12
Candidate Starts for Dmitri_10:
(Start: 12 @7247 has 36 MA's), (18, 7349), (23, 7412), (24, 7421), (26, 7433), (28, 7451), (32, 7472),

Gene: Doggs_9 Start: 6962, Stop: 7297, Start Num: 12
Candidate Starts for Doggs_9:
(7, 6782), (Start: 12 @6962 has 36 MA's), (18, 7064), (23, 7127), (24, 7136), (26, 7148), (28, 7166), (32, 7187), (36, 7280),

Gene: DumpsterDude_10 Start: 7367, Stop: 7690, Start Num: 12
Candidate Starts for DumpsterDude_10:
(2, 6968), (3, 7010), (8, 7190), (Start: 12 @7367 has 36 MA's), (14, 7385), (24, 7529),

Gene: Eyes_9 Start: 6875, Stop: 7210, Start Num: 12
Candidate Starts for Eyes_9:
(Start: 12 @6875 has 36 MA's), (16, 6953), (29, 7085),

Gene: Francois_13 Start: 8640, Stop: 8960, Start Num: 12
Candidate Starts for Francois_13:
(3, 8295), (9, 8613), (Start: 12 @8640 has 36 MA's), (Start: 13 @8643 has 1 MA's), (14, 8658), (16, 8715), (20, 8748), (21, 8751), (24, 8802), (25, 8808), (26, 8814), (28, 8832), (31, 8850), (33, 8856), (35, 8931),

Gene: GEazy_9 Start: 6877, Stop: 7212, Start Num: 12
Candidate Starts for GEazy_9:
(Start: 12 @6877 has 36 MA's), (16, 6955), (25, 7048), (27, 7060), (29, 7087),

Gene: GrandSlam_13 Start: 8659, Stop: 8979, Start Num: 12
Candidate Starts for GrandSlam_13:
(3, 8314), (9, 8632), (Start: 12 @8659 has 36 MA's), (14, 8677), (16, 8734), (20, 8767), (24, 8821), (25, 8827), (26, 8833), (28, 8851), (33, 8875), (35, 8950),

Gene: Hamood_13 Start: 8659, Stop: 8979, Start Num: 12
Candidate Starts for Hamood_13:
(3, 8314), (9, 8632), (Start: 12 @8659 has 36 MA's), (14, 8677), (16, 8734), (20, 8767), (24, 8821), (25, 8827), (26, 8833), (28, 8851), (33, 8875), (35, 8950),

Gene: HannahD_9 Start: 6877, Stop: 7212, Start Num: 12
Candidate Starts for HannahD_9:
(Start: 12 @6877 has 36 MA's), (16, 6955), (25, 7048), (27, 7060), (29, 7087),

Gene: Hedwig_10 Start: 7238, Stop: 7573, Start Num: 12
Candidate Starts for Hedwig_10:
(Start: 12 @7238 has 36 MA's),

Gene: Jecs_9 Start: 7199, Stop: 7534, Start Num: 12
Candidate Starts for Jecs_9:
(11, 7196), (Start: 12 @7199 has 36 MA's), (15, 7220), (16, 7277), (25, 7370), (29, 7409),

Gene: Kiko_10 Start: 7078, Stop: 7413, Start Num: 12
Candidate Starts for Kiko_10:
(3, 6742), (6, 6820), (7, 6898), (Start: 12 @7078 has 36 MA's), (17, 7168), (19, 7183), (23, 7234), (26, 7255), (30, 7294), (34, 7372), (35, 7384),

Gene: MagicMan_9 Start: 7205, Stop: 7540, Start Num: 12
Candidate Starts for MagicMan_9:
(4, 6920), (11, 7202), (Start: 12 @7205 has 36 MA's), (15, 7226), (29, 7415),

Gene: MakCheese_9 Start: 7174, Stop: 7497, Start Num: 12
Candidate Starts for MakCheese_9:
(8, 6997), (9, 7147), (Start: 12 @7174 has 36 MA's), (14, 7192), (19, 7276), (25, 7342), (33, 7390),

Gene: Malibo_9 Start: 7157, Stop: 7480, Start Num: 12
Candidate Starts for Malibo_9:
(Start: 12 @7157 has 36 MA's), (22, 7283), (24, 7319),

Gene: Moonflower_10 Start: 7270, Stop: 7605, Start Num: 12
Candidate Starts for Moonflower_10:
(Start: 12 @7270 has 36 MA's), (18, 7372), (23, 7435), (24, 7444), (26, 7456), (28, 7474), (31, 7492), (32, 7495), (36, 7588),

Gene: Mulch_13 Start: 8626, Stop: 8946, Start Num: 12
Candidate Starts for Mulch_13:
(3, 8281), (9, 8599), (Start: 12 @8626 has 36 MA's), (14, 8644), (16, 8701), (20, 8734), (24, 8788), (25, 8794), (26, 8800), (28, 8818), (33, 8842), (35, 8917),

Gene: NaLuna_9 Start: 6877, Stop: 7212, Start Num: 12
Candidate Starts for NaLuna_9:
(Start: 12 @6877 has 36 MA's), (16, 6955), (25, 7048), (27, 7060), (29, 7087),

Gene: Nadeem_13 Start: 8626, Stop: 8946, Start Num: 12
Candidate Starts for Nadeem_13:
(3, 8281), (9, 8599), (Start: 12 @8626 has 36 MA's), (14, 8644), (16, 8701), (20, 8734), (24, 8788), (25, 8794), (26, 8800), (28, 8818), (33, 8842), (35, 8917),

Gene: NancyRae_13 Start: 8626, Stop: 8946, Start Num: 12
Candidate Starts for NancyRae_13:
(3, 8281), (9, 8599), (Start: 12 @8626 has 36 MA's), (14, 8644), (16, 8701), (20, 8734), (24, 8788), (25, 8794), (26, 8800), (28, 8818), (33, 8842), (35, 8917),

Gene: Opie_9 Start: 7220, Stop: 7555, Start Num: 12
Candidate Starts for Opie_9:
(11, 7217), (Start: 12 @7220 has 36 MA's), (15, 7241), (29, 7430),

Gene: Parada_13 Start: 8626, Stop: 8946, Start Num: 12
Candidate Starts for Parada_13:
(3, 8281), (9, 8599), (Start: 12 @8626 has 36 MA's), (14, 8644), (16, 8701), (20, 8734), (24, 8788), (25, 8794), (26, 8800), (28, 8818), (33, 8842), (35, 8917),

Gene: PatriciaStar_9 Start: 6883, Stop: 7218, Start Num: 12
Candidate Starts for PatriciaStar_9:
(Start: 12 @6883 has 36 MA's), (18, 6985), (23, 7048), (24, 7057), (26, 7069), (28, 7087), (32, 7108),

Gene: Pimento_14 Start: 8833, Stop: 9150, Start Num: 13
Candidate Starts for Pimento_14:
(3, 8485), (9, 8803), (Start: 12 @8830 has 36 MA's), (Start: 13 @8833 has 1 MA's), (14, 8848), (16, 8905), (20, 8938), (24, 8992), (25, 8998), (26, 9004), (28, 9022), (33, 9046), (35, 9121),

Gene: RayTheFireFly_10 Start: 7271, Stop: 7606, Start Num: 12
Candidate Starts for RayTheFireFly_10:
(7, 7091), (Start: 12 @7271 has 36 MA's), (18, 7373), (23, 7436), (24, 7445), (26, 7457), (28, 7475), (31, 7493), (32, 7496), (36, 7589),

Gene: Ruthy_10 Start: 7438, Stop: 7761, Start Num: 12
Candidate Starts for Ruthy_10:
(2, 7039), (3, 7081), (8, 7261), (Start: 12 @7438 has 36 MA's), (14, 7456), (24, 7600),

Gene: Schnabeltier_9 Start: 7206, Stop: 7541, Start Num: 12
Candidate Starts for Schnabeltier_9:
(4, 6921), (11, 7203), (Start: 12 @7206 has 36 MA's), (15, 7227), (29, 7416),

Gene: Sprinklemunch_9 Start: 7214, Stop: 7537, Start Num: 12
Candidate Starts for Sprinklemunch_9:
(Start: 12 @7214 has 36 MA's), (14, 7232), (19, 7316), (25, 7382), (33, 7430),

Gene: SussRoloMann_13 Start: 8626, Stop: 8946, Start Num: 12
Candidate Starts for SussRoloMann_13:
(3, 8281), (9, 8599), (Start: 12 @8626 has 36 MA's), (14, 8644), (16, 8701), (20, 8734), (24, 8788), (25, 8794), (26, 8800), (28, 8818), (33, 8842), (35, 8917),

Gene: TaronosaurasRx_9 Start: 7210, Stop: 7554, Start Num: 10
Candidate Starts for TaronosaurasRx_9:

(4, 6934), (5, 6943), (Start: 10 @7210 has 1 MA's), (Start: 12 @7219 has 36 MA's), (15, 7240), (24, 7384), (29, 7429),

Gene: WheatThin_13 Start: 8626, Stop: 8946, Start Num: 12
Candidate Starts for WheatThin_13:
(3, 8281), (9, 8599), (Start: 12 @8626 has 36 MA's), (14, 8644), (16, 8701), (20, 8734), (24, 8788), (25, 8794), (26, 8800), (28, 8818), (33, 8842), (35, 8917),

Gene: ZAYM_9 Start: 7212, Stop: 7547, Start Num: 12
Candidate Starts for ZAYM_9:
(5, 6936), (Start: 12 @7212 has 36 MA's), (15, 7233), (24, 7377), (25, 7383), (29, 7422),

Gene: Zodiariah_9 Start: 7164, Stop: 7487, Start Num: 12
Candidate Starts for Zodiariah_9:
(1, 6759), (3, 6807), (8, 6987), (9, 7137), (Start: 12 @7164 has 36 MA's), (19, 7266), (25, 7332), (33, 7380),