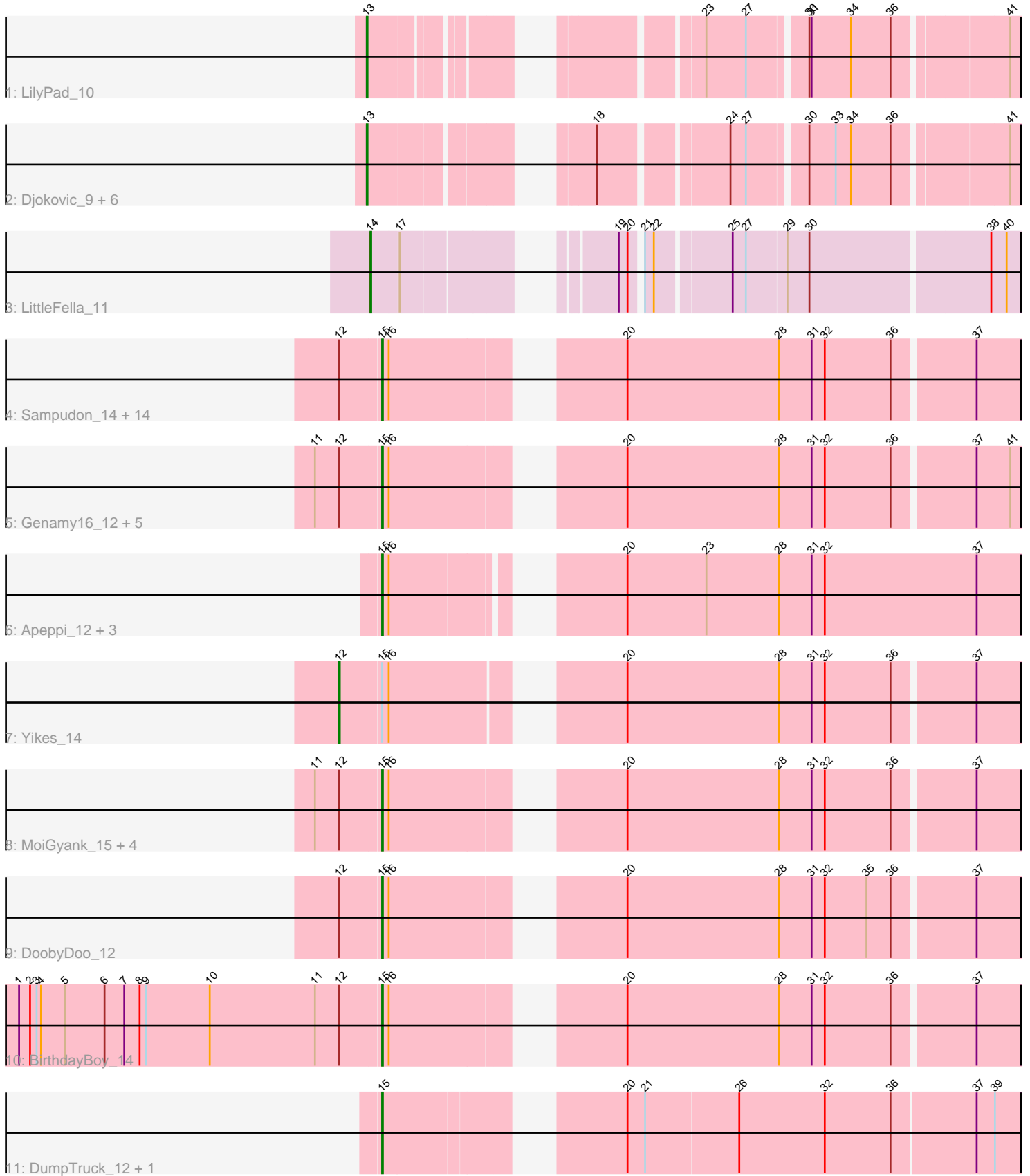


Pham 194118



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 194118 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194118 has 44 members, 6 are drafts.

Phages represented in each track:

- Track 1 : LilyPad_10
- Track 2 : Djokovic_9, Terapin_9, Sienna_9, BiteSize_9, Suzy_10, Beyoncage_9, Madi_9
- Track 3 : LittleFella_11
- Track 4 : Sampudon_14, Patos_14, Lambo_13, NorManre_14, OtterstedtS21_13, Jalebi_14, ParvusTarda_13, Alephilan_11, DaviePasture_13, Erutan_13, Ranch_13, Mima20_13, Gibbin_14, Zany_13, Lila22_14
- Track 5 : Genamy16_12, NovaSharks_12, Jamemuya19_11, Rumi_12, Alyssamiracle_12, Avian_12
- Track 6 : Apeppi_12, Tillicus_14, LuckyLeo_13, Wojtek_12
- Track 7 : Yikes_14
- Track 8 : MoiGyank_15, GOATification_14, Fulcrum_14, Gretellyn_13, Sadboi_13
- Track 9 : DoobyDoo_12
- Track 10 : BirthdayBoy_14
- Track 11 : DumpTruck_12, Xenia2_11

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

The start number called the most often in the published annotations is 15, it was called in 28 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alephilan_11, Alyssamiracle_12, Apeppi_12, Avian_12, BirthdayBoy_14, DaviePasture_13, DoobyDoo_12, DumpTruck_12, Erutan_13, Fulcrum_14, GOATification_14, Genamy16_12, Gibbin_14, Gretellyn_13, Jalebi_14, Jamemuya19_11, Lambo_13, Lila22_14, LuckyLeo_13, Mima20_13, MoiGyank_15, NorManre_14, NovaSharks_12, OtterstedtS21_13, ParvusTarda_13, Patos_14, Ranch_13, Rumi_12, Sadboi_13, Sampudon_14, Tillicus_14, Wojtek_12, Xenia2_11, Zany_13,

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

- Yikes_14,

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

- Beyoncage_9, BiteSize_9, Djokovic_9, LilyPad_10, LittleFella_11, Madi_9, Sienna_9, Suzy_10, Terapin_9,

Summary by start number:

Start 12:

- Found in 29 of 44 (65.9%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 3.4% of time when present
- Phage (with cluster) where this start called: Yikes_14 (DV),

Start 13:

- Found in 8 of 44 (18.2%) of genes in pham
- Manual Annotations of this start: 8 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beyoncage_9 (DG1), BiteSize_9 (DG1), Djokovic_9 (DG1), LilyPad_10 (DG1), Madi_9 (DG1), Sienna_9 (DG1), Suzy_10 (DG1), Terapin_9 (DG1),

Start 14:

- Found in 1 of 44 (2.3%) 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: LittleFella_11 (DG2),

Start 15:

- Found in 35 of 44 (79.5%) of genes in pham
- Manual Annotations of this start: 28 of 38
- Called 97.1% of time when present
- Phage (with cluster) where this start called: Alephilan_11 (DV), Alyssamiracle_12 (DV), Apeppi_12 (DV), Avian_12 (DV), BirthdayBoy_14 (DV), DaviePasture_13 (DV), DoobyDoo_12 (DV), DumpTruck_12 (DV), Erutan_13 (DV), Fulcrum_14 (DV), GOATification_14 (DV), Genamy16_12 (DV), Gibbin_14 (DV), GretelLyn_13 (DV), Jalebi_14 (DV), Jamemuya19_11 (DV), Lambo_13 (DV), Lila22_14 (DV), LuckyLeo_13 (DV), Mima20_13 (DV), MoiGyank_15 (DV), NorManre_14 (DV), NovaSharks_12 (DV), OtterstedtS21_13 (DV), ParvusTarda_13 (DV), Patos_14 (DV), Ranch_13 (DV), Rumi_12 (DV), Sadboi_13 (DV), Sampudon_14 (DV), Tillicus_14 (DV), Wojtek_12 (DV), Xenia2_11 (DV), Zany_13 (DV),

Summary by clusters:

There are 3 clusters represented in this pham: DV, DG2, DG1,

Info for manual annotations of cluster DG1:

- Start number 13 was manually annotated 8 times for cluster DG1.

Info for manual annotations of cluster DG2:

- Start number 14 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DV:

- Start number 12 was manually annotated 1 time for cluster DV.
- Start number 15 was manually annotated 28 times for cluster DV.

Gene Information:

Gene: Alephilan_11 Start: 9942, Stop: 10796, Start Num: 15

Candidate Starts for Alephilan_11:

(Start: 12 @9888 has 1 MA's), (Start: 15 @9942 has 28 MA's), (16, 9951), (20, 10275), (28, 10479), (31, 10524), (32, 10542), (36, 10632), (37, 10737),

Gene: Alyssamiracle_12 Start: 8415, Stop: 9203, Start Num: 15

Candidate Starts for Alyssamiracle_12:

(11, 8328), (Start: 12 @8361 has 1 MA's), (Start: 15 @8415 has 28 MA's), (16, 8424), (20, 8682), (28, 8886), (31, 8931), (32, 8949), (36, 9039), (37, 9144), (41, 9189),

Gene: Apeppi_12 Start: 10121, Stop: 10912, Start Num: 15

Candidate Starts for Apeppi_12:

(Start: 15 @10121 has 28 MA's), (16, 10130), (20, 10376), (23, 10484), (28, 10583), (31, 10628), (32, 10646), (37, 10853),

Gene: Avian_12 Start: 8415, Stop: 9203, Start Num: 15

Candidate Starts for Avian_12:

(11, 8328), (Start: 12 @8361 has 1 MA's), (Start: 15 @8415 has 28 MA's), (16, 8424), (20, 8682), (28, 8886), (31, 8931), (32, 8949), (36, 9039), (37, 9144), (41, 9189),

Gene: Beyoncage_9 Start: 5939, Stop: 6685, Start Num: 13

Candidate Starts for Beyoncage_9:

(Start: 13 @5939 has 8 MA's), (18, 6167), (24, 6323), (27, 6344), (30, 6416), (33, 6452), (34, 6473), (36, 6527), (41, 6671),

Gene: BirthdayBoy_14 Start: 10861, Stop: 11649, Start Num: 15

Candidate Starts for BirthdayBoy_14:

(1, 10369), (2, 10384), (3, 10393), (4, 10399), (5, 10432), (6, 10486), (7, 10513), (8, 10534), (9, 10543), (10, 10630), (11, 10774), (Start: 12 @10807 has 1 MA's), (Start: 15 @10861 has 28 MA's), (16, 10870), (20, 11128), (28, 11332), (31, 11377), (32, 11395), (36, 11485), (37, 11590),

Gene: BiteSize_9 Start: 5939, Stop: 6685, Start Num: 13

Candidate Starts for BiteSize_9:

(Start: 13 @5939 has 8 MA's), (18, 6167), (24, 6323), (27, 6344), (30, 6416), (33, 6452), (34, 6473), (36, 6527), (41, 6671),

Gene: DaviePasture_13 Start: 10618, Stop: 11406, Start Num: 15

Candidate Starts for DaviePasture_13:

(Start: 12 @10564 has 1 MA's), (Start: 15 @10618 has 28 MA's), (16, 10627), (20, 10885), (28, 11089), (31, 11134), (32, 11152), (36, 11242), (37, 11347),

Gene: Djokovic_9 Start: 5939, Stop: 6685, Start Num: 13

Candidate Starts for Djokovic_9:

(Start: 13 @5939 has 8 MA's), (18, 6167), (24, 6323), (27, 6344), (30, 6416), (33, 6452), (34, 6473), (36, 6527), (41, 6671),

Gene: DoobyDoo_12 Start: 9795, Stop: 10583, Start Num: 15

Candidate Starts for DoobyDoo_12:

(Start: 12 @9741 has 1 MA's), (Start: 15 @9795 has 28 MA's), (16, 9804), (20, 10062), (28, 10266), (31, 10311), (32, 10329), (35, 10386), (36, 10419), (37, 10524),

Gene: DumpTruck_12 Start: 10057, Stop: 10842, Start Num: 15

Candidate Starts for DumpTruck_12:

(Start: 15 @10057 has 28 MA's), (20, 10318), (21, 10342), (26, 10465), (32, 10582), (36, 10672), (37, 10783), (39, 10807),

Gene: Erutan_13 Start: 10308, Stop: 11096, Start Num: 15

Candidate Starts for Erutan_13:

(Start: 12 @10254 has 1 MA's), (Start: 15 @10308 has 28 MA's), (16, 10317), (20, 10575), (28, 10779), (31, 10824), (32, 10842), (36, 10932), (37, 11037),

Gene: Fulcrum_14 Start: 10841, Stop: 11629, Start Num: 15

Candidate Starts for Fulcrum_14:

(11, 10754), (Start: 12 @10787 has 1 MA's), (Start: 15 @10841 has 28 MA's), (16, 10850), (20, 11108), (28, 11312), (31, 11357), (32, 11375), (36, 11465), (37, 11570),

Gene: GOATification_14 Start: 10841, Stop: 11629, Start Num: 15

Candidate Starts for GOATification_14:

(11, 10754), (Start: 12 @10787 has 1 MA's), (Start: 15 @10841 has 28 MA's), (16, 10850), (20, 11108), (28, 11312), (31, 11357), (32, 11375), (36, 11465), (37, 11570),

Gene: Genamy16_12 Start: 8415, Stop: 9203, Start Num: 15

Candidate Starts for Genamy16_12:

(11, 8328), (Start: 12 @8361 has 1 MA's), (Start: 15 @8415 has 28 MA's), (16, 8424), (20, 8682), (28, 8886), (31, 8931), (32, 8949), (36, 9039), (37, 9144), (41, 9189),

Gene: Gibbin_14 Start: 10901, Stop: 11689, Start Num: 15

Candidate Starts for Gibbin_14:

(Start: 12 @10847 has 1 MA's), (Start: 15 @10901 has 28 MA's), (16, 10910), (20, 11168), (28, 11372), (31, 11417), (32, 11435), (36, 11525), (37, 11630),

Gene: Gretellyn_13 Start: 11175, Stop: 11963, Start Num: 15

Candidate Starts for Gretellyn_13:

(11, 11088), (Start: 12 @11121 has 1 MA's), (Start: 15 @11175 has 28 MA's), (16, 11184), (20, 11442), (28, 11646), (31, 11691), (32, 11709), (36, 11799), (37, 11904),

Gene: Jalebi_14 Start: 11351, Stop: 12139, Start Num: 15

Candidate Starts for Jalebi_14:

(Start: 12 @11297 has 1 MA's), (Start: 15 @11351 has 28 MA's), (16, 11360), (20, 11618), (28, 11822), (31, 11867), (32, 11885), (36, 11975), (37, 12080),

Gene: Jamemuya19_11 Start: 8415, Stop: 9203, Start Num: 15

Candidate Starts for Jamemuya19_11:

(11, 8328), (Start: 12 @8361 has 1 MA's), (Start: 15 @8415 has 28 MA's), (16, 8424), (20, 8682), (28, 8886), (31, 8931), (32, 8949), (36, 9039), (37, 9144), (41, 9189),

Gene: Lambo_13 Start: 10845, Stop: 11633, Start Num: 15

Candidate Starts for Lambo_13:

(Start: 12 @10791 has 1 MA's), (Start: 15 @10845 has 28 MA's), (16, 10854), (20, 11112), (28, 11316), (31, 11361), (32, 11379), (36, 11469), (37, 11574),

Gene: Lila22_14 Start: 10796, Stop: 11587, Start Num: 15

Candidate Starts for Lila22_14:

(Start: 12 @10742 has 1 MA's), (Start: 15 @10796 has 28 MA's), (16, 10805), (20, 11066), (28, 11270), (31, 11315), (32, 11333), (36, 11423), (37, 11528),

Gene: LilyPad_10 Start: 6696, Stop: 7427, Start Num: 13

Candidate Starts for LilyPad_10:

(Start: 13 @6696 has 8 MA's), (23, 7035), (27, 7089), (30, 7161), (31, 7164), (34, 7218), (36, 7272), (41, 7413),

Gene: LittleFella_11 Start: 8501, Stop: 9259, Start Num: 14

Candidate Starts for LittleFella_11:

(Start: 14 @8501 has 1 MA's), (17, 8537), (19, 8753), (20, 8765), (21, 8777), (22, 8789), (25, 8882), (27, 8900), (29, 8954), (30, 8984), (38, 9221), (40, 9242),

Gene: LuckyLeo_13 Start: 10121, Stop: 10912, Start Num: 15

Candidate Starts for LuckyLeo_13:

(Start: 15 @10121 has 28 MA's), (16, 10130), (20, 10376), (23, 10484), (28, 10583), (31, 10628), (32, 10646), (37, 10853),

Gene: Madi_9 Start: 5939, Stop: 6685, Start Num: 13

Candidate Starts for Madi_9:

(Start: 13 @5939 has 8 MA's), (18, 6167), (24, 6323), (27, 6344), (30, 6416), (33, 6452), (34, 6473), (36, 6527), (41, 6671),

Gene: Mima20_13 Start: 10525, Stop: 11316, Start Num: 15

Candidate Starts for Mima20_13:

(Start: 12 @10471 has 1 MA's), (Start: 15 @10525 has 28 MA's), (16, 10534), (20, 10795), (28, 10999), (31, 11044), (32, 11062), (36, 11152), (37, 11257),

Gene: MoiGyank_15 Start: 11212, Stop: 12000, Start Num: 15

Candidate Starts for MoiGyank_15:

(11, 11125), (Start: 12 @11158 has 1 MA's), (Start: 15 @11212 has 28 MA's), (16, 11221), (20, 11479), (28, 11683), (31, 11728), (32, 11746), (36, 11836), (37, 11941),

Gene: NorManre_14 Start: 10407, Stop: 11195, Start Num: 15

Candidate Starts for NorManre_14:

(Start: 12 @10353 has 1 MA's), (Start: 15 @10407 has 28 MA's), (16, 10416), (20, 10674), (28, 10878), (31, 10923), (32, 10941), (36, 11031), (37, 11136),

Gene: NovaSharks_12 Start: 8415, Stop: 9203, Start Num: 15

Candidate Starts for NovaSharks_12:

(11, 8328), (Start: 12 @8361 has 1 MA's), (Start: 15 @8415 has 28 MA's), (16, 8424), (20, 8682), (28, 8886), (31, 8931), (32, 8949), (36, 9039), (37, 9144), (41, 9189),

Gene: OtterstedtS21_13 Start: 10497, Stop: 11285, Start Num: 15

Candidate Starts for OtterstedtS21_13:

(Start: 12 @10443 has 1 MA's), (Start: 15 @10497 has 28 MA's), (16, 10506), (20, 10764), (28, 10968), (31, 11013), (32, 11031), (36, 11121), (37, 11226),

Gene: ParvusTarda_13 Start: 9979, Stop: 10767, Start Num: 15

Candidate Starts for ParvusTarda_13:

(Start: 12 @9925 has 1 MA's), (Start: 15 @9979 has 28 MA's), (16, 9988), (20, 10246), (28, 10450), (31, 10495), (32, 10513), (36, 10603), (37, 10708),

Gene: Patos_14 Start: 10407, Stop: 11195, Start Num: 15

Candidate Starts for Patos_14:

(Start: 12 @10353 has 1 MA's), (Start: 15 @10407 has 28 MA's), (16, 10416), (20, 10674), (28, 10878), (31, 10923), (32, 10941), (36, 11031), (37, 11136),

Gene: Ranch_13 Start: 9348, Stop: 10133, Start Num: 15

Candidate Starts for Ranch_13:

(Start: 12 @9294 has 1 MA's), (Start: 15 @9348 has 28 MA's), (16, 9357), (20, 9612), (28, 9816), (31, 9861), (32, 9879), (36, 9969), (37, 10074),

Gene: Rumi_12 Start: 8415, Stop: 9203, Start Num: 15

Candidate Starts for Rumi_12:

(11, 8328), (Start: 12 @8361 has 1 MA's), (Start: 15 @8415 has 28 MA's), (16, 8424), (20, 8682), (28, 8886), (31, 8931), (32, 8949), (36, 9039), (37, 9144), (41, 9189),

Gene: Sadboi_13 Start: 11175, Stop: 11963, Start Num: 15

Candidate Starts for Sadboi_13:

(11, 11088), (Start: 12 @11121 has 1 MA's), (Start: 15 @11175 has 28 MA's), (16, 11184), (20, 11442), (28, 11646), (31, 11691), (32, 11709), (36, 11799), (37, 11904),

Gene: Sampudon_14 Start: 11351, Stop: 12139, Start Num: 15

Candidate Starts for Sampudon_14:

(Start: 12 @11297 has 1 MA's), (Start: 15 @11351 has 28 MA's), (16, 11360), (20, 11618), (28, 11822), (31, 11867), (32, 11885), (36, 11975), (37, 12080),

Gene: Sienna_9 Start: 5939, Stop: 6685, Start Num: 13

Candidate Starts for Sienna_9:

(Start: 13 @5939 has 8 MA's), (18, 6167), (24, 6323), (27, 6344), (30, 6416), (33, 6452), (34, 6473), (36, 6527), (41, 6671),

Gene: Suzy_10 Start: 7182, Stop: 7928, Start Num: 13

Candidate Starts for Suzy_10:

(Start: 13 @7182 has 8 MA's), (18, 7410), (24, 7566), (27, 7587), (30, 7659), (33, 7695), (34, 7716), (36, 7770), (41, 7914),

Gene: Terapin_9 Start: 5939, Stop: 6685, Start Num: 13

Candidate Starts for Terapin_9:

(Start: 13 @5939 has 8 MA's), (18, 6167), (24, 6323), (27, 6344), (30, 6416), (33, 6452), (34, 6473), (36, 6527), (41, 6671),

Gene: Tillicus_14 Start: 9713, Stop: 10513, Start Num: 15

Candidate Starts for Tillicus_14:

(Start: 15 @9713 has 28 MA's), (16, 9722), (20, 9977), (23, 10085), (28, 10184), (31, 10229), (32, 10247), (37, 10454),

Gene: Wojtek_12 Start: 10037, Stop: 10840, Start Num: 15

Candidate Starts for Wojtek_12:

(Start: 15 @10037 has 28 MA's), (16, 10046), (20, 10304), (23, 10412), (28, 10511), (31, 10556), (32, 10574), (37, 10781),

Gene: Xenia2_11 Start: 10096, Stop: 10884, Start Num: 15

Candidate Starts for Xenia2_11:

(Start: 15 @10096 has 28 MA's), (20, 10360), (21, 10384), (26, 10507), (32, 10624), (36, 10714), (37, 10825), (39, 10849),

Gene: Yikes_14 Start: 11385, Stop: 12224, Start Num: 12

Candidate Starts for Yikes_14:

(Start: 12 @11385 has 1 MA's), (Start: 15 @11439 has 28 MA's), (16, 11448), (20, 11703), (28, 11907), (31, 11952), (32, 11970), (36, 12060), (37, 12165),

Gene: Zany_13 Start: 10565, Stop: 11353, Start Num: 15

Candidate Starts for Zany_13:

(Start: 12 @10511 has 1 MA's), (Start: 15 @10565 has 28 MA's), (16, 10574), (20, 10832), (28, 11036), (31, 11081), (32, 11099), (36, 11189), (37, 11294),