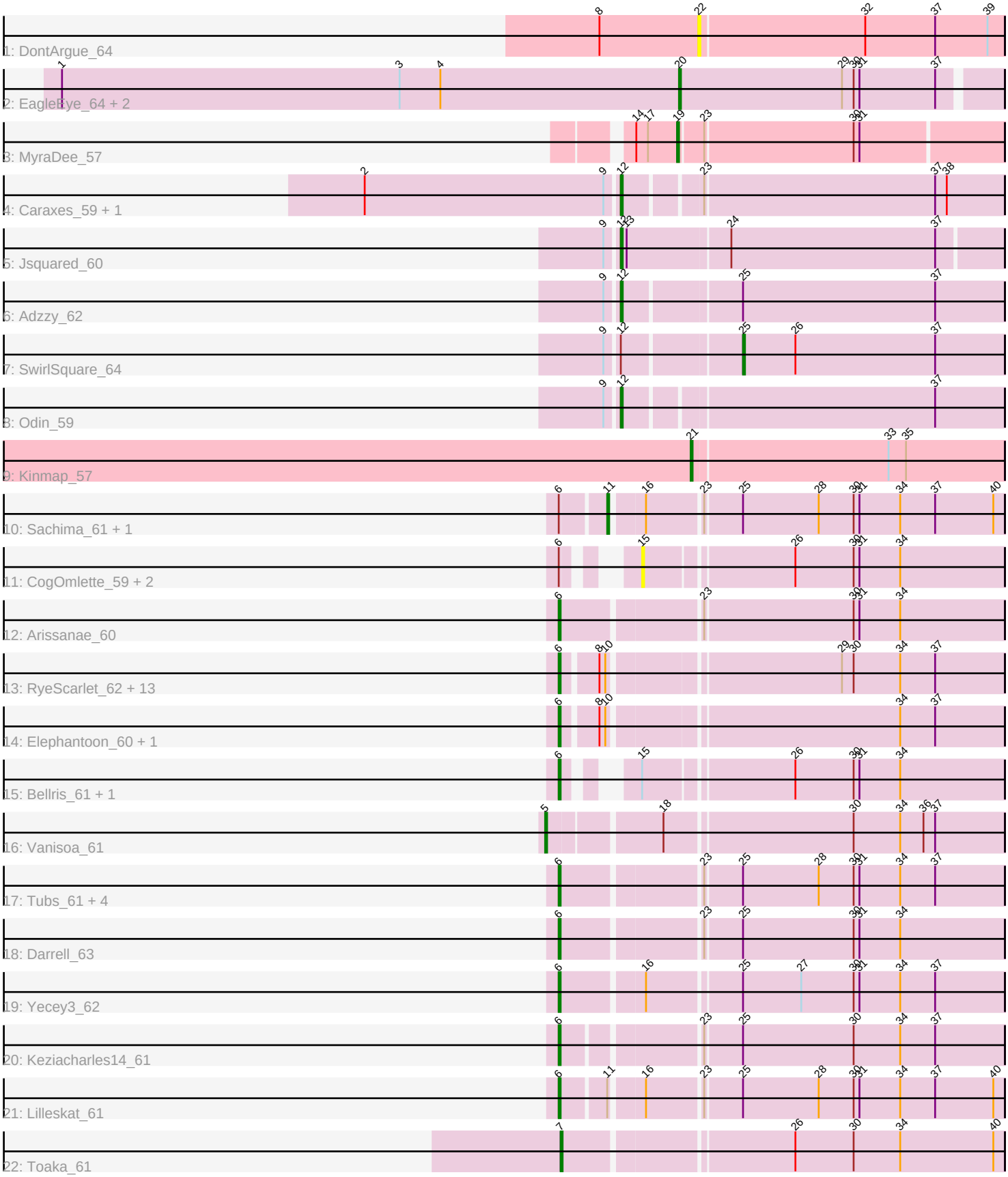
Pham 342114


1: DontArgue_64
2: EagleEye_64 + 2
3: MyraDee_57
4: Caraxes_59 + 1
5: Jsquared_60
6: Adzzy_62
7: SwirlSquare_64
8: Odin_59
9: Kinmap_57
10: Sachima_61 + 1
11: CogOmlette_59 + 2
12: Arissanae_60
13: RyeScarlet_62 + 13
14: Elephantoon_60 + 1
15: Bellris_61 + 1
16: Vanisoa_61
17: Tubs_61 + 4
18: Darrell_63
19: Yecey3_62
20: Keziacharles14_61
21: Lilleskat_61
22: Toaka_61

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 342114 Report

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

Pham number 342114 has 47 members, 4 are drafts.

Phages represented in each track:
• Track 1 : DontArgue_64
• Track 2 : EagleEye_64, Lucyedi_63, PainterBoy_63
• Track 3 : MyraDee_57
• Track 4 : Caraxes_59, Superchunk_59
• Track 5 : Jsquared_60
• Track 6 : Adzzy_62
• Track 7 : SwirlSquare_64
• Track 8 : Odin_59
• Track 9 : Kinmap_57
• Track 10 : Sachima_61, EdogawaKiddo_61
• Track 11 : CogOmlette_59, Minispark_59, WorldCup_59
• Track 12 : Arissanae_60
• Track 13 : RyeScarlet_62, Jiawan_62, Ugenie5_58, Onglai_61, Hanray_62, HortumSL17_62, Scherzo_62, Aliter_62, Phonnegut_62, Holex_62, Pioneer_62, Myxus_61, Catalina_63, Beemo_62
• Track 14 : Elephantoon_60, LoneWolf_62
• Track 15 : Bellris_61, Rahalelujah_61
• Track 16 : Vanisoa_61
• Track 17 : Tubs_61, BogosyJay_60, Maminiaina_60, Phaeder_61, PackMan_60
• Track 18 : Darrell_63
• Track 19 : Yecey3_62
• Track 20 : Keziacharles14_61
• Track 21 : Lilleskat_61
• Track 22 : Toaka_61

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

The start number called the most often in the published annotations is 6, it was called in 28 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aliter_62, Arissanae_60, Beemo_62, Bellris_61, BogosyJay_60, Catalina_63, Darrell_63, Elephantoon_60, Hanray_62, Holex_62, HortumSL17_62, Jiawan_62, Keziacharles14_61, Lilleskat_61, LoneWolf_62, Maminiaina_60, Myxus_61,

Onglai_61, PackMan_60, Phaeder_61, Phonnegut_62, Pioneer_62, Rahalelujah_61, RyeScarlet_62, Scherzo_62, Tubs_61, Ugenie5_58, Yecey3_62,

Genes that have the "Most Annotated" start but do not call it:
• CogOmlette_59, EdogawaKiddo_61, Minispark_59, Sachima_61, WorldCup_59,

Genes that do not have the "Most Annotated" start:
• Adzzy_62, Caraxes_59, DontArgue_64, EagleEye_64, Jsquared_60, Kinmap_57, Lucyedi_63, MyraDee_57, Odin_59, PainterBoy_63, Superchunk_59, SwirlSquare_64, Toaka_61, Vanisoa_61,

Summary by start number:

Start 5:
• Found in 1 of 47 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Vanisoa_61 (A9),

Start 6:
• Found in 33 of 47 (70.2%) of genes in pham
• Manual Annotations of this start: 28 of 43
• Called 84.8% of time when present
• Phage (with cluster) where this start called: Aliter_62 (A9), Arissanae_60 (A9), Beemo_62 (A9), Bellris_61 (A9), BogosyJay_60 (A9), Catalina_63 (A9), Darrell_63 (A9), Elephantoon_60 (A9), Hanray_62 (A9), Holex_62 (A9), HortumSL17_62 (A9), Jiawan_62 (A9), Keziacharles14_61 (A9), Lilleskat_61 (A9), LoneWolf_62 (A9), Maminiaina_60 (A9), Myxus_61 (A9), Onglai_61 (A9), PackMan_60 (A9), Phaeder_61 (A9), Phonnegut_62 (A9), Pioneer_62 (A9), Rahalelujah_61 (A9), RyeScarlet_62 (A9), Scherzo_62 (A9), Tubs_61 (A9), Ugenie5_58 (A9), Yecey3_62 (A9),

Start 7:
• Found in 1 of 47 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Toaka_61 (A9),

Start 11:
• Found in 3 of 47 (6.4%) of genes in pham
• Manual Annotations of this start: 2 of 43
• Called 66.7% of time when present
• Phage (with cluster) where this start called: EdogawaKiddo_61 (A9), Sachima_61 (A9),

Start 12:
• Found in 6 of 47 (12.8%) of genes in pham
• Manual Annotations of this start: 5 of 43
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Adzzy_62 (A2), Caraxes_59 (A2), Jsquared_60 (A2), Odin_59 (A2), Superchunk_59 (A2),

Start 15:
• Found in 5 of 47 (10.6%) of genes in pham

• No Manual Annotations of this start.
• Called 60.0% of time when present
• Phage (with cluster) where this start called: CogOmlette_59 (A9), Minispark_59 (A9), WorldCup_59 (A9),

Start 19:
• Found in 1 of 47 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MyraDee_57 (A18),

Start 20:
• Found in 3 of 47 (6.4%) of genes in pham
• Manual Annotations of this start: 3 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EagleEye_64 (A16), Lucyedi_63 (A16), PainterBoy_63 (A16),

Start 21:
• Found in 1 of 47 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kinmap_57 (A21),

Start 22:
• Found in 1 of 47 (2.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DontArgue_64 (A10),

Start 25:
• Found in 13 of 47 (27.7%) of genes in pham
• Manual Annotations of this start: 1 of 43
• Called 7.7% of time when present
• Phage (with cluster) where this start called: SwirlSquare_64 (A2),

Summary by clusters:

There are 6 clusters represented in this pham: A21, A16, A10, A18, A2, A9,

Info for manual annotations of cluster A16:
•Start number 20 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:
•Start number 19 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A2:
•Start number 12 was manually annotated 5 times for cluster A2.
•Start number 25 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A21:
•Start number 21 was manually annotated 1 time for cluster A21.

Info for manual annotations of cluster A9:
•Start number 5 was manually annotated 1 time for cluster A9.
•Start number 6 was manually annotated 28 times for cluster A9.
•Start number 7 was manually annotated 1 time for cluster A9.
•Start number 11 was manually annotated 2 times for cluster A9.

Gene Information:

Gene: Adzzy_62 Start: 38280, Stop: 38089, Start Num: 12
Candidate Starts for Adzzy_62:
(9, 38286), (Start: 12 @38280 has 5 MA's), (Start: 25 @38223 has 1 MA's), (37, 38124),

Gene: Aliter_62 Start: 39332, Stop: 39120, Start Num: 6
Candidate Starts for Aliter_62:
(Start: 6 @39332 has 28 MA's), (8, 39317), (10, 39314), (29, 39203), (30, 39197), (34, 39173), (37, 39155),

Gene: Arissanae_60 Start: 39898, Stop: 39680, Start Num: 6
Candidate Starts for Arissanae_60:
(Start: 6 @39898 has 28 MA's), (23, 39832), (30, 39757), (31, 39754), (34, 39733),

Gene: Beemo_62 Start: 39502, Stop: 39290, Start Num: 6
Candidate Starts for Beemo_62:
(Start: 6 @39502 has 28 MA's), (8, 39487), (10, 39484), (29, 39373), (30, 39367), (34, 39343), (37, 39325),

Gene: Bellris_61 Start: 39025, Stop: 38825, Start Num: 6
Candidate Starts for Bellris_61:
(Start: 6 @39025 has 28 MA's), (15, 39004), (26, 38932), (30, 38902), (31, 38899), (34, 38878),

Gene: BogosyJay_60 Start: 39299, Stop: 39081, Start Num: 6
Candidate Starts for BogosyJay_60:
(Start: 6 @39299 has 28 MA's), (23, 39233), (Start: 25 @39215 has 1 MA's), (28, 39176), (30, 39158), (31, 39155), (34, 39134), (37, 39116),

Gene: Caraxes_59 Start: 37974, Stop: 37786, Start Num: 12
Candidate Starts for Caraxes_59:
(2, 38103), (9, 37980), (Start: 12 @37974 has 5 MA's), (23, 37938), (37, 37821), (38, 37815),

Gene: Catalina_63 Start: 39405, Stop: 39193, Start Num: 6
Candidate Starts for Catalina_63:
(Start: 6 @39405 has 28 MA's), (8, 39390), (10, 39387), (29, 39276), (30, 39270), (34, 39246), (37, 39228),

Gene: CogOmlette_59 Start: 39001, Stop: 38822, Start Num: 15
Candidate Starts for CogOmlette_59:
(Start: 6 @39022 has 28 MA's), (15, 39001), (26, 38929), (30, 38899), (31, 38896), (34, 38875),

Gene: Darrell_63 Start: 39973, Stop: 39755, Start Num: 6
Candidate Starts for Darrell_63:

(Start: 6 @39973 has 28 MA's), (23, 39907), (Start: 25 @39889 has 1 MA's), (30, 39832), (31, 39829), (34, 39808),

Gene: DontArgue_64 Start: 40985, Stop: 40830, Start Num: 22
Candidate Starts for DontArgue_64:
(8, 41036), (22, 40985), (32, 40901), (37, 40865), (39, 40838),

Gene: EagleEye_64 Start: 39391, Stop: 39230, Start Num: 20
Candidate Starts for EagleEye_64:
(1, 39709), (3, 39535), (4, 39514), (Start: 20 @39391 has 3 MA's), (29, 39307), (30, 39301), (31, 39298), (37, 39259),

Gene: EdogawaKiddo_61 Start: 39348, Stop: 39154, Start Num: 11
Candidate Starts for EdogawaKiddo_61:
(Start: 6 @39369 has 28 MA's), (Start: 11 @39348 has 2 MA's), (16, 39333), (23, 39306), (Start: 25 @39288 has 1 MA's), (28, 39249), (30, 39231), (31, 39228), (34, 39207), (37, 39189), (40, 39159),

Gene: Elephantoon_60 Start: 38712, Stop: 38500, Start Num: 6
Candidate Starts for Elephantoon_60:
(Start: 6 @38712 has 28 MA's), (8, 38697), (10, 38694), (34, 38553), (37, 38535),

Gene: Hanray_62 Start: 39457, Stop: 39245, Start Num: 6
Candidate Starts for Hanray_62:
(Start: 6 @39457 has 28 MA's), (8, 39442), (10, 39439), (29, 39328), (30, 39322), (34, 39298), (37, 39280),

Gene: Holex_62 Start: 39473, Stop: 39261, Start Num: 6
Candidate Starts for Holex_62:
(Start: 6 @39473 has 28 MA's), (8, 39458), (10, 39455), (29, 39344), (30, 39338), (34, 39314), (37, 39296),

Gene: HortumSL17_62 Start: 39404, Stop: 39192, Start Num: 6
Candidate Starts for HortumSL17_62:
(Start: 6 @39404 has 28 MA's), (8, 39389), (10, 39386), (29, 39275), (30, 39269), (34, 39245), (37, 39227),

Gene: Jiawan_62 Start: 39489, Stop: 39277, Start Num: 6
Candidate Starts for Jiawan_62:
(Start: 6 @39489 has 28 MA's), (8, 39474), (10, 39471), (29, 39360), (30, 39354), (34, 39330), (37, 39312),

Gene: Jsquared_60 Start: 38644, Stop: 38453, Start Num: 12
Candidate Starts for Jsquared_60:
(9, 38650), (Start: 12 @38644 has 5 MA's), (13, 38641), (24, 38590), (37, 38485),

Gene: Keziacharles14_61 Start: 40467, Stop: 40252, Start Num: 6
Candidate Starts for Keziacharles14_61:
(Start: 6 @40467 has 28 MA's), (23, 40404), (Start: 25 @40386 has 1 MA's), (30, 40329), (34, 40305), (37, 40287),

Gene: Kinmap_57 Start: 37671, Stop: 37513, Start Num: 21
Candidate Starts for Kinmap_57:
(Start: 21 @37671 has 1 MA's), (33, 37572), (35, 37563),

Gene: Lilleskat_61 Start: 39322, Stop: 39107, Start Num: 6
Candidate Starts for Lilleskat_61:
(Start: 6 @39322 has 28 MA's), (Start: 11 @39301 has 2 MA's), (16, 39286), (23, 39259), (Start: 25 @39241 has 1 MA's), (28, 39202), (30, 39184), (31, 39181), (34, 39160), (37, 39142), (40, 39112),

Gene: LoneWolf_62 Start: 39434, Stop: 39222, Start Num: 6
Candidate Starts for LoneWolf_62:
(Start: 6 @39434 has 28 MA's), (8, 39419), (10, 39416), (34, 39275), (37, 39257),

Gene: Lucyedi_63 Start: 39587, Stop: 39426, Start Num: 20
Candidate Starts for Lucyedi_63:
(1, 39905), (3, 39731), (4, 39710), (Start: 20 @39587 has 3 MA's), (29, 39503), (30, 39497), (31, 39494), (37, 39455),

Gene: Maminiaina_60 Start: 39281, Stop: 39063, Start Num: 6
Candidate Starts for Maminiaina_60:
(Start: 6 @39281 has 28 MA's), (23, 39215), (Start: 25 @39197 has 1 MA's), (28, 39158), (30, 39140), (31, 39137), (34, 39116), (37, 39098),

Gene: Minispark_59 Start: 38998, Stop: 38819, Start Num: 15
Candidate Starts for Minispark_59:
(Start: 6 @39019 has 28 MA's), (15, 38998), (26, 38926), (30, 38896), (31, 38893), (34, 38872),

Gene: MyraDee_57 Start: 36199, Stop: 36038, Start Num: 19
Candidate Starts for MyraDee_57:
(14, 36220), (17, 36214), (Start: 19 @36199 has 1 MA's), (23, 36187), (30, 36112), (31, 36109),

Gene: Myxus_61 Start: 39404, Stop: 39192, Start Num: 6
Candidate Starts for Myxus_61:
(Start: 6 @39404 has 28 MA's), (8, 39389), (10, 39386), (29, 39275), (30, 39269), (34, 39245), (37, 39227),

Gene: Odin_59 Start: 38358, Stop: 38170, Start Num: 12
Candidate Starts for Odin_59:
(9, 38364), (Start: 12 @38358 has 5 MA's), (37, 38205),

Gene: Onglai_61 Start: 37745, Stop: 37533, Start Num: 6
Candidate Starts for Onglai_61:
(Start: 6 @37745 has 28 MA's), (8, 37730), (10, 37727), (29, 37616), (30, 37610), (34, 37586), (37, 37568),

Gene: PackMan_60 Start: 39279, Stop: 39061, Start Num: 6
Candidate Starts for PackMan_60:
(Start: 6 @39279 has 28 MA's), (23, 39213), (Start: 25 @39195 has 1 MA's), (28, 39156), (30, 39138), (31, 39135), (34, 39114), (37, 39096),

Gene: PainterBoy_63 Start: 39546, Stop: 39385, Start Num: 20
Candidate Starts for PainterBoy_63:
(1, 39864), (3, 39690), (4, 39669), (Start: 20 @39546 has 3 MA's), (29, 39462), (30, 39456), (31, 39453), (37, 39414),

Gene: Phaeder_61 Start: 39279, Stop: 39061, Start Num: 6

Candidate Starts for Phaeder_61:
(Start: 6 @39279 has 28 MA's), (23, 39213), (Start: 25 @39195 has 1 MA's), (28, 39156), (30, 39138), (31, 39135), (34, 39114), (37, 39096),

Gene: Phonnegut_62 Start: 39501, Stop: 39289, Start Num: 6
Candidate Starts for Phonnegut_62:
(Start: 6 @39501 has 28 MA's), (8, 39486), (10, 39483), (29, 39372), (30, 39366), (34, 39342), (37, 39324),

Gene: Pioneer_62 Start: 39501, Stop: 39289, Start Num: 6
Candidate Starts for Pioneer_62:
(Start: 6 @39501 has 28 MA's), (8, 39486), (10, 39483), (29, 39372), (30, 39366), (34, 39342), (37, 39324),

Gene: Rahalelujah_61 Start: 39034, Stop: 38834, Start Num: 6
Candidate Starts for Rahalelujah_61:
(Start: 6 @39034 has 28 MA's), (15, 39013), (26, 38941), (30, 38911), (31, 38908), (34, 38887),

Gene: RyeScarlet_62 Start: 39476, Stop: 39264, Start Num: 6
Candidate Starts for RyeScarlet_62:
(Start: 6 @39476 has 28 MA's), (8, 39461), (10, 39458), (29, 39347), (30, 39341), (34, 39317), (37, 39299),

Gene: Sachima_61 Start: 39281, Stop: 39087, Start Num: 11
Candidate Starts for Sachima_61:
(Start: 6 @39302 has 28 MA's), (Start: 11 @39281 has 2 MA's), (16, 39266), (23, 39239), (Start: 25 @39221 has 1 MA's), (28, 39182), (30, 39164), (31, 39161), (34, 39140), (37, 39122), (40, 39092),

Gene: Scherzo_62 Start: 39690, Stop: 39478, Start Num: 6
Candidate Starts for Scherzo_62:
(Start: 6 @39690 has 28 MA's), (8, 39675), (10, 39672), (29, 39561), (30, 39555), (34, 39531), (37, 39513),

Gene: Superchunk_59 Start: 37974, Stop: 37786, Start Num: 12
Candidate Starts for Superchunk_59:
(2, 38103), (9, 37980), (Start: 12 @37974 has 5 MA's), (23, 37938), (37, 37821), (38, 37815),

Gene: SwirlSquare_64 Start: 38842, Stop: 38708, Start Num: 25
Candidate Starts for SwirlSquare_64:
(9, 38905), (Start: 12 @38899 has 5 MA's), (Start: 25 @38842 has 1 MA's), (26, 38815), (37, 38743),

Gene: Toaka_61 Start: 39301, Stop: 39083, Start Num: 7
Candidate Starts for Toaka_61:
(Start: 7 @39301 has 1 MA's), (26, 39190), (30, 39160), (34, 39136), (40, 39088),

Gene: Tubs_61 Start: 39279, Stop: 39061, Start Num: 6
Candidate Starts for Tubs_61:
(Start: 6 @39279 has 28 MA's), (23, 39213), (Start: 25 @39195 has 1 MA's), (28, 39156), (30, 39138), (31, 39135), (34, 39114), (37, 39096),

Gene: Ugenie5_58 Start: 39689, Stop: 39477, Start Num: 6
Candidate Starts for Ugenie5_58:

(Start: 6 @39689 has 28 MA's), (8, 39674), (10, 39671), (29, 39560), (30, 39554), (34, 39530), (37, 39512),

Gene: Vanisoa_61 Start: 40386, Stop: 40162, Start Num: 5
Candidate Starts for Vanisoa_61:
(Start: 5 @40386 has 1 MA's), (18, 40332), (30, 40239), (34, 40215), (36, 40203), (37, 40197),

Gene: WorldCup_59 Start: 39007, Stop: 38828, Start Num: 15
Candidate Starts for WorldCup_59:
(Start: 6 @39028 has 28 MA's), (15, 39007), (26, 38935), (30, 38905), (31, 38902), (34, 38881),

Gene: Yecey3_62 Start: 39278, Stop: 39060, Start Num: 6
Candidate Starts for Yecey3_62:
(Start: 6 @39278 has 28 MA's), (16, 39239), (Start: 25 @39194 has 1 MA's), (27, 39164), (30, 39137), (31, 39134), (34, 39113), (37, 39095),