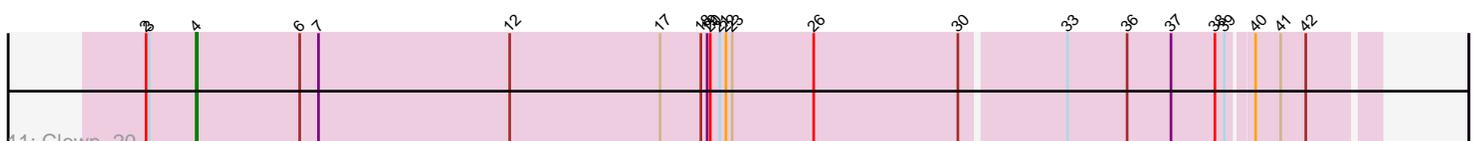
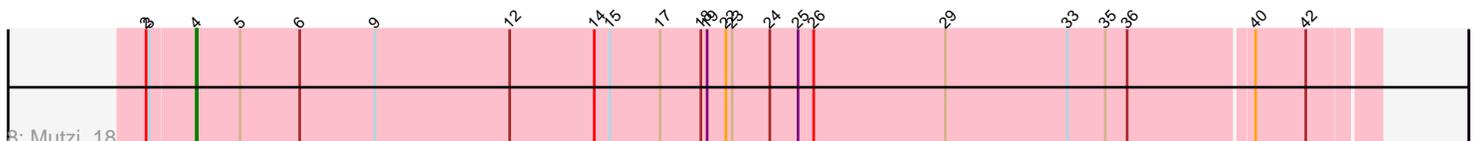
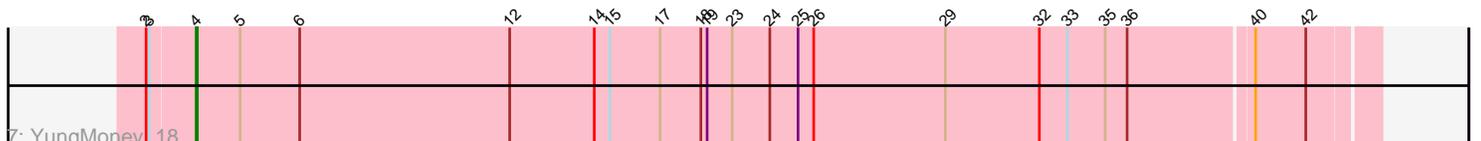
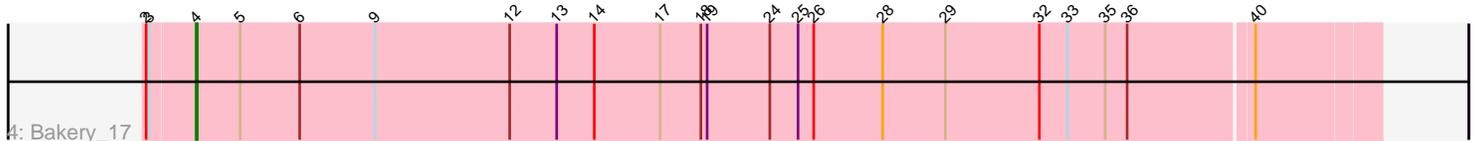
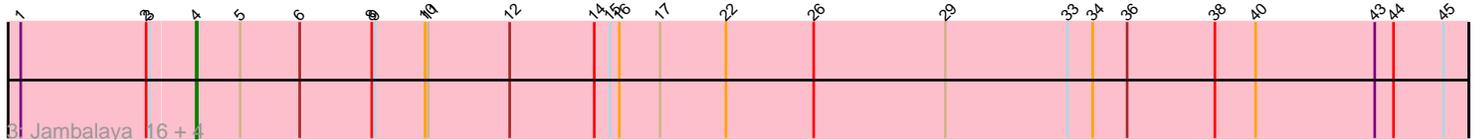
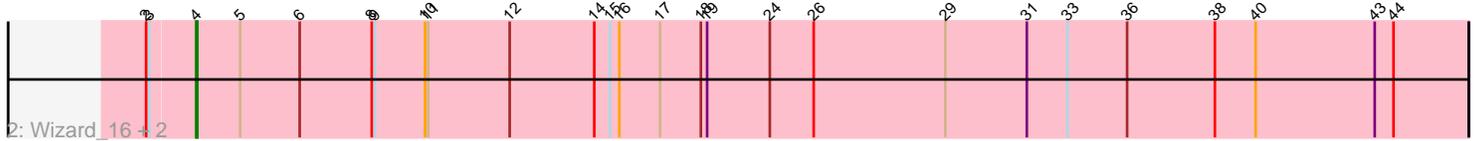
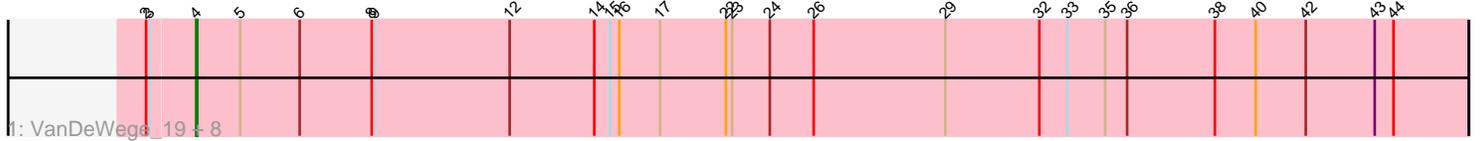


Pham 86191



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 86191 Report

This analysis was run 04/05/24 on database version 557.

Pham number 86191 has 31 members, 2 are drafts.

Phages represented in each track:

- Track 1 : VanDeWege_19, Valary_19, PinkCoffee_18, KimmyK_18, ClamChowder_18, Twister6_18, Danyall_18, Fugax_18, Barb_18
- Track 2 : Wizard_16, Gezellig_17, Fireball_17
- Track 3 : Jambalaya_16, Savbucketdawg_16, TillyBobJoe_16, Portcullis_16, Shinji_16
- Track 4 : Bakery_17
- Track 5 : Nubi_16, SmokingBunny_16, Salvador_16, Togo_16, Evamon_16, Halo3_17
- Track 6 : RogerDodger_19
- Track 7 : YungMoney_18
- Track 8 : Mutzi_18
- Track 9 : Arri_19
- Track 10 : Phlop_16, PullumCavea_16
- Track 11 : Clown_20

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

The start number called the most often in the published annotations is 4, it was called in 29 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arri_19, Bakery_17, Barb_18, ClamChowder_18, Clown_20, Danyall_18, Evamon_16, Fireball_17, Fugax_18, Gezellig_17, Halo3_17, Jambalaya_16, KimmyK_18, Mutzi_18, Nubi_16, Phlop_16, PinkCoffee_18, Portcullis_16, PullumCavea_16, RogerDodger_19, Salvador_16, Savbucketdawg_16, Shinji_16, SmokingBunny_16, TillyBobJoe_16, Togo_16, Twister6_18, Valary_19, VanDeWege_19, Wizard_16, YungMoney_18,

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

-

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

-

Summary by start number:

Start 4:

- Found in 31 of 31 (100.0%) of genes in pham
- Manual Annotations of this start: 29 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arri_19 (DC1), Bakery_17 (DC1), Barb_18 (DC1), ClamChowder_18 (DC1), Clown_20 (DC2), Danyall_18 (DC1), Evamon_16 (DC1), Fireball_17 (DC1), Fugax_18 (DC1), Gezellig_17 (DC1), Halo3_17 (DC1), Jambalaya_16 (DC1), KimmyK_18 (DC1), Mutzi_18 (DC1), Nubi_16 (DC1), Phlop_16 (DC1), PinkCoffee_18 (DC1), Portcullis_16 (DC1), PullumCavea_16 (DC1), RogerDodger_19 (DC1), Salvador_16 (DC1), Savbucketdawg_16 (DC1), Shinji_16 (DC1), SmokingBunny_16 (DC1), TillyBobJoe_16 (DC1), Togo_16 (DC1), Twister6_18 (DC1), Valary_19 (DC1), VanDeWege_19 (DC1), Wizard_16 (DC1), YungMoney_18 (DC1),

Summary by clusters:

There are 2 clusters represented in this pham: DC2, DC1,

Info for manual annotations of cluster DC1:

- Start number 4 was manually annotated 28 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 4 was manually annotated 1 time for cluster DC2.

Gene Information:

Gene: Arri_19 Start: 10508, Stop: 11725, Start Num: 4

Candidate Starts for Arri_19:

(2, 10463), (3, 10466), (Start: 4 @10508 has 29 MA's), (5, 10550), (6, 10607), (12, 10808), (14, 10889), (15, 10904), (17, 10952), (18, 10991), (19, 10997), (23, 11021), (24, 11057), (25, 11084), (26, 11099), (29, 11225), (32, 11315), (33, 11342), (35, 11378), (36, 11399), (38, 11483), (40, 11522), (42, 11570), (43, 11636), (44, 11654),

Gene: Bakery_17 Start: 9793, Stop: 10911, Start Num: 4

Candidate Starts for Bakery_17:

(2, 9748), (3, 9751), (Start: 4 @9793 has 29 MA's), (5, 9835), (6, 9892), (9, 9964), (12, 10093), (13, 10138), (14, 10174), (17, 10237), (18, 10276), (19, 10282), (24, 10342), (25, 10369), (26, 10384), (28, 10450), (29, 10510), (32, 10600), (33, 10627), (35, 10663), (36, 10684), (40, 10798),

Gene: Barb_18 Start: 10471, Stop: 11688, Start Num: 4

Candidate Starts for Barb_18:

(2, 10426), (3, 10429), (Start: 4 @10471 has 29 MA's), (5, 10513), (6, 10570), (8, 10639), (9, 10642), (12, 10771), (14, 10852), (15, 10867), (16, 10876), (17, 10915), (22, 10978), (23, 10984), (24, 11020), (26, 11062), (29, 11188), (32, 11278), (33, 11305), (35, 11341), (36, 11362), (38, 11446), (40, 11485), (42, 11533), (43, 11599), (44, 11617),

Gene: ClamChowder_18 Start: 10471, Stop: 11688, Start Num: 4

Candidate Starts for ClamChowder_18:

(2, 10426), (3, 10429), (Start: 4 @10471 has 29 MA's), (5, 10513), (6, 10570), (8, 10639), (9, 10642), (12, 10771), (14, 10852), (15, 10867), (16, 10876), (17, 10915), (22, 10978), (23, 10984), (24, 11020), (26, 11062), (29, 11188), (32, 11278), (33, 11305), (35, 11341), (36, 11362), (38, 11446), (40, 11485), (42, 11533), (43, 11599), (44, 11617),

Gene: Clown_20 Start: 12628, Stop: 13734, Start Num: 4

Candidate Starts for Clown_20:

(2, 12580), (3, 12583), (Start: 4 @12628 has 29 MA's), (6, 12727), (7, 12745), (12, 12928), (17, 13072), (18, 13111), (19, 13117), (20, 13120), (21, 13129), (22, 13135), (23, 13141), (26, 13219), (30, 13357), (33, 13453), (36, 13510), (37, 13552), (38, 13594), (39, 13603), (40, 13624), (41, 13648), (42, 13672),

Gene: Danyall_18 Start: 10343, Stop: 11560, Start Num: 4

Candidate Starts for Danyall_18:

(2, 10298), (3, 10301), (Start: 4 @10343 has 29 MA's), (5, 10385), (6, 10442), (8, 10511), (9, 10514), (12, 10643), (14, 10724), (15, 10739), (16, 10748), (17, 10787), (22, 10850), (23, 10856), (24, 10892), (26, 10934), (29, 11060), (32, 11150), (33, 11177), (35, 11213), (36, 11234), (38, 11318), (40, 11357), (42, 11405), (43, 11471), (44, 11489),

Gene: Evamon_16 Start: 9818, Stop: 11035, Start Num: 4

Candidate Starts for Evamon_16:

(2, 9773), (3, 9776), (Start: 4 @9818 has 29 MA's), (5, 9860), (6, 9917), (8, 9986), (9, 9989), (10, 10037), (11, 10040), (12, 10118), (14, 10199), (15, 10214), (16, 10223), (17, 10262), (22, 10325), (23, 10331), (24, 10367), (26, 10409), (29, 10535), (32, 10625), (33, 10652), (35, 10688), (36, 10709), (38, 10793), (40, 10832), (42, 10880), (43, 10946), (44, 10964),

Gene: Fireball_17 Start: 9941, Stop: 11158, Start Num: 4

Candidate Starts for Fireball_17:

(2, 9896), (3, 9899), (Start: 4 @9941 has 29 MA's), (5, 9983), (6, 10040), (8, 10109), (9, 10112), (10, 10160), (11, 10163), (12, 10241), (14, 10322), (15, 10337), (16, 10346), (17, 10385), (18, 10424), (19, 10430), (24, 10490), (26, 10532), (29, 10658), (31, 10736), (33, 10775), (36, 10832), (38, 10916), (40, 10955), (43, 11069), (44, 11087),

Gene: Fugax_18 Start: 10471, Stop: 11688, Start Num: 4

Candidate Starts for Fugax_18:

(2, 10426), (3, 10429), (Start: 4 @10471 has 29 MA's), (5, 10513), (6, 10570), (8, 10639), (9, 10642), (12, 10771), (14, 10852), (15, 10867), (16, 10876), (17, 10915), (22, 10978), (23, 10984), (24, 11020), (26, 11062), (29, 11188), (32, 11278), (33, 11305), (35, 11341), (36, 11362), (38, 11446), (40, 11485), (42, 11533), (43, 11599), (44, 11617),

Gene: Gezellig_17 Start: 9941, Stop: 11158, Start Num: 4

Candidate Starts for Gezellig_17:

(2, 9896), (3, 9899), (Start: 4 @9941 has 29 MA's), (5, 9983), (6, 10040), (8, 10109), (9, 10112), (10, 10160), (11, 10163), (12, 10241), (14, 10322), (15, 10337), (16, 10346), (17, 10385), (18, 10424), (19, 10430), (24, 10490), (26, 10532), (29, 10658), (31, 10736), (33, 10775), (36, 10832), (38, 10916), (40, 10955), (43, 11069), (44, 11087),

Gene: Halo3_17 Start: 10271, Stop: 11488, Start Num: 4

Candidate Starts for Halo3_17:

(2, 10226), (3, 10229), (Start: 4 @10271 has 29 MA's), (5, 10313), (6, 10370), (8, 10439), (9, 10442), (10, 10490), (11, 10493), (12, 10571), (14, 10652), (15, 10667), (16, 10676), (17, 10715), (22, 10778), (23, 10784), (24, 10820), (26, 10862), (29, 10988), (32, 11078), (33, 11105), (35, 11141), (36, 11162), (38, 11246), (40, 11285), (42, 11333), (43, 11399), (44, 11417),

Gene: Jambalaya_16 Start: 9639, Stop: 10856, Start Num: 4

Candidate Starts for Jambalaya_16:

(1, 9474), (2, 9594), (3, 9597), (Start: 4 @9639 has 29 MA's), (5, 9681), (6, 9738), (8, 9807), (9, 9810), (10, 9858), (11, 9861), (12, 9939), (14, 10020), (15, 10035), (16, 10044), (17, 10083), (22, 10146), (26, 10230), (29, 10356), (33, 10473), (34, 10497), (36, 10530), (38, 10614), (40, 10653), (43, 10767), (44, 10785), (45, 10833),

Gene: KimmyK_18 Start: 10471, Stop: 11688, Start Num: 4

Candidate Starts for KimmyK_18:

(2, 10426), (3, 10429), (Start: 4 @10471 has 29 MA's), (5, 10513), (6, 10570), (8, 10639), (9, 10642), (12, 10771), (14, 10852), (15, 10867), (16, 10876), (17, 10915), (22, 10978), (23, 10984), (24, 11020), (26, 11062), (29, 11188), (32, 11278), (33, 11305), (35, 11341), (36, 11362), (38, 11446), (40, 11485), (42, 11533), (43, 11599), (44, 11617),

Gene: Mutzi_18 Start: 10336, Stop: 11451, Start Num: 4

Candidate Starts for Mutzi_18:

(2, 10291), (3, 10294), (Start: 4 @10336 has 29 MA's), (5, 10378), (6, 10435), (9, 10507), (12, 10636), (14, 10717), (15, 10732), (17, 10780), (18, 10819), (19, 10825), (22, 10843), (23, 10849), (24, 10885), (25, 10912), (26, 10927), (29, 11053), (33, 11170), (35, 11206), (36, 11227), (40, 11341), (42, 11389),

Gene: Nubi_16 Start: 9838, Stop: 11055, Start Num: 4

Candidate Starts for Nubi_16:

(2, 9793), (3, 9796), (Start: 4 @9838 has 29 MA's), (5, 9880), (6, 9937), (8, 10006), (9, 10009), (10, 10057), (11, 10060), (12, 10138), (14, 10219), (15, 10234), (16, 10243), (17, 10282), (22, 10345), (23, 10351), (24, 10387), (26, 10429), (29, 10555), (32, 10645), (33, 10672), (35, 10708), (36, 10729), (38, 10813), (40, 10852), (42, 10900), (43, 10966), (44, 10984),

Gene: Phlop_16 Start: 9941, Stop: 11158, Start Num: 4

Candidate Starts for Phlop_16:

(2, 9896), (3, 9899), (Start: 4 @9941 has 29 MA's), (5, 9983), (6, 10040), (8, 10109), (9, 10112), (10, 10160), (11, 10163), (12, 10241), (14, 10322), (15, 10337), (16, 10346), (17, 10385), (18, 10424), (19, 10430), (24, 10490), (26, 10532), (27, 10586), (29, 10658), (33, 10775), (34, 10799), (36, 10832), (38, 10916), (40, 10955), (43, 11069), (44, 11087),

Gene: PinkCoffee_18 Start: 10480, Stop: 11697, Start Num: 4

Candidate Starts for PinkCoffee_18:

(2, 10435), (3, 10438), (Start: 4 @10480 has 29 MA's), (5, 10522), (6, 10579), (8, 10648), (9, 10651), (12, 10780), (14, 10861), (15, 10876), (16, 10885), (17, 10924), (22, 10987), (23, 10993), (24, 11029), (26, 11071), (29, 11197), (32, 11287), (33, 11314), (35, 11350), (36, 11371), (38, 11455), (40, 11494), (42, 11542), (43, 11608), (44, 11626),

Gene: Portcullis_16 Start: 9887, Stop: 11104, Start Num: 4

Candidate Starts for Portcullis_16:

(1, 9722), (2, 9842), (3, 9845), (Start: 4 @9887 has 29 MA's), (5, 9929), (6, 9986), (8, 10055), (9, 10058), (10, 10106), (11, 10109), (12, 10187), (14, 10268), (15, 10283), (16, 10292), (17, 10331), (22, 10394), (26, 10478), (29, 10604), (33, 10721), (34, 10745), (36, 10778), (38, 10862), (40, 10901), (43, 11015), (44, 11033), (45, 11081),

Gene: PullumCavea_16 Start: 9941, Stop: 11158, Start Num: 4

Candidate Starts for PullumCavea_16:

(2, 9896), (3, 9899), (Start: 4 @9941 has 29 MA's), (5, 9983), (6, 10040), (8, 10109), (9, 10112), (10, 10160), (11, 10163), (12, 10241), (14, 10322), (15, 10337), (16, 10346), (17, 10385), (18, 10424), (19,

10430), (24, 10490), (26, 10532), (27, 10586), (29, 10658), (33, 10775), (34, 10799), (36, 10832), (38, 10916), (40, 10955), (43, 11069), (44, 11087),

Gene: RogerDodger_19 Start: 10707, Stop: 11924, Start Num: 4

Candidate Starts for RogerDodger_19:

(2, 10662), (3, 10665), (Start: 4 @10707 has 29 MA's), (5, 10749), (6, 10806), (8, 10875), (9, 10878), (12, 11007), (14, 11088), (15, 11103), (17, 11151), (22, 11214), (23, 11220), (24, 11256), (26, 11298), (29, 11424), (32, 11514), (33, 11541), (35, 11577), (36, 11598), (38, 11682), (40, 11721), (42, 11769), (43, 11835), (44, 11853),

Gene: Salvador_16 Start: 9816, Stop: 11033, Start Num: 4

Candidate Starts for Salvador_16:

(2, 9771), (3, 9774), (Start: 4 @9816 has 29 MA's), (5, 9858), (6, 9915), (8, 9984), (9, 9987), (10, 10035), (11, 10038), (12, 10116), (14, 10197), (15, 10212), (16, 10221), (17, 10260), (22, 10323), (23, 10329), (24, 10365), (26, 10407), (29, 10533), (32, 10623), (33, 10650), (35, 10686), (36, 10707), (38, 10791), (40, 10830), (42, 10878), (43, 10944), (44, 10962),

Gene: Savbucketdawg_16 Start: 9639, Stop: 10856, Start Num: 4

Candidate Starts for Savbucketdawg_16:

(1, 9474), (2, 9594), (3, 9597), (Start: 4 @9639 has 29 MA's), (5, 9681), (6, 9738), (8, 9807), (9, 9810), (10, 9858), (11, 9861), (12, 9939), (14, 10020), (15, 10035), (16, 10044), (17, 10083), (22, 10146), (26, 10230), (29, 10356), (33, 10473), (34, 10497), (36, 10530), (38, 10614), (40, 10653), (43, 10767), (44, 10785), (45, 10833),

Gene: Shinji_16 Start: 9828, Stop: 11045, Start Num: 4

Candidate Starts for Shinji_16:

(1, 9663), (2, 9783), (3, 9786), (Start: 4 @9828 has 29 MA's), (5, 9870), (6, 9927), (8, 9996), (9, 9999), (10, 10047), (11, 10050), (12, 10128), (14, 10209), (15, 10224), (16, 10233), (17, 10272), (22, 10335), (26, 10419), (29, 10545), (33, 10662), (34, 10686), (36, 10719), (38, 10803), (40, 10842), (43, 10956), (44, 10974), (45, 11022),

Gene: SmokingBunny_16 Start: 9816, Stop: 11033, Start Num: 4

Candidate Starts for SmokingBunny_16:

(2, 9771), (3, 9774), (Start: 4 @9816 has 29 MA's), (5, 9858), (6, 9915), (8, 9984), (9, 9987), (10, 10035), (11, 10038), (12, 10116), (14, 10197), (15, 10212), (16, 10221), (17, 10260), (22, 10323), (23, 10329), (24, 10365), (26, 10407), (29, 10533), (32, 10623), (33, 10650), (35, 10686), (36, 10707), (38, 10791), (40, 10830), (42, 10878), (43, 10944), (44, 10962),

Gene: TillyBobJoe_16 Start: 9642, Stop: 10859, Start Num: 4

Candidate Starts for TillyBobJoe_16:

(1, 9477), (2, 9597), (3, 9600), (Start: 4 @9642 has 29 MA's), (5, 9684), (6, 9741), (8, 9810), (9, 9813), (10, 9861), (11, 9864), (12, 9942), (14, 10023), (15, 10038), (16, 10047), (17, 10086), (22, 10149), (26, 10233), (29, 10359), (33, 10476), (34, 10500), (36, 10533), (38, 10617), (40, 10656), (43, 10770), (44, 10788), (45, 10836),

Gene: Togo_16 Start: 9816, Stop: 11033, Start Num: 4

Candidate Starts for Togo_16:

(2, 9771), (3, 9774), (Start: 4 @9816 has 29 MA's), (5, 9858), (6, 9915), (8, 9984), (9, 9987), (10, 10035), (11, 10038), (12, 10116), (14, 10197), (15, 10212), (16, 10221), (17, 10260), (22, 10323), (23, 10329), (24, 10365), (26, 10407), (29, 10533), (32, 10623), (33, 10650), (35, 10686), (36, 10707), (38, 10791), (40, 10830), (42, 10878), (43, 10944), (44, 10962),

Gene: Twister6_18 Start: 10254, Stop: 11471, Start Num: 4

Candidate Starts for Twister6_18:

(2, 10209), (3, 10212), (Start: 4 @10254 has 29 MA's), (5, 10296), (6, 10353), (8, 10422), (9, 10425), (12, 10554), (14, 10635), (15, 10650), (16, 10659), (17, 10698), (22, 10761), (23, 10767), (24, 10803), (26, 10845), (29, 10971), (32, 11061), (33, 11088), (35, 11124), (36, 11145), (38, 11229), (40, 11268), (42, 11316), (43, 11382), (44, 11400),

Gene: Valary_19 Start: 10707, Stop: 11924, Start Num: 4

Candidate Starts for Valary_19:

(2, 10662), (3, 10665), (Start: 4 @10707 has 29 MA's), (5, 10749), (6, 10806), (8, 10875), (9, 10878), (12, 11007), (14, 11088), (15, 11103), (16, 11112), (17, 11151), (22, 11214), (23, 11220), (24, 11256), (26, 11298), (29, 11424), (32, 11514), (33, 11541), (35, 11577), (36, 11598), (38, 11682), (40, 11721), (42, 11769), (43, 11835), (44, 11853),

Gene: VanDeWege_19 Start: 10635, Stop: 11852, Start Num: 4

Candidate Starts for VanDeWege_19:

(2, 10590), (3, 10593), (Start: 4 @10635 has 29 MA's), (5, 10677), (6, 10734), (8, 10803), (9, 10806), (12, 10935), (14, 11016), (15, 11031), (16, 11040), (17, 11079), (22, 11142), (23, 11148), (24, 11184), (26, 11226), (29, 11352), (32, 11442), (33, 11469), (35, 11505), (36, 11526), (38, 11610), (40, 11649), (42, 11697), (43, 11763), (44, 11781),

Gene: Wizard_16 Start: 9941, Stop: 11158, Start Num: 4

Candidate Starts for Wizard_16:

(2, 9896), (3, 9899), (Start: 4 @9941 has 29 MA's), (5, 9983), (6, 10040), (8, 10109), (9, 10112), (10, 10160), (11, 10163), (12, 10241), (14, 10322), (15, 10337), (16, 10346), (17, 10385), (18, 10424), (19, 10430), (24, 10490), (26, 10532), (29, 10658), (31, 10736), (33, 10775), (36, 10832), (38, 10916), (40, 10955), (43, 11069), (44, 11087),

Gene: YungMoney_18 Start: 11395, Stop: 12510, Start Num: 4

Candidate Starts for YungMoney_18:

(2, 11350), (3, 11353), (Start: 4 @11395 has 29 MA's), (5, 11437), (6, 11494), (12, 11695), (14, 11776), (15, 11791), (17, 11839), (18, 11878), (19, 11884), (23, 11908), (24, 11944), (25, 11971), (26, 11986), (29, 12112), (32, 12202), (33, 12229), (35, 12265), (36, 12286), (40, 12400), (42, 12448),