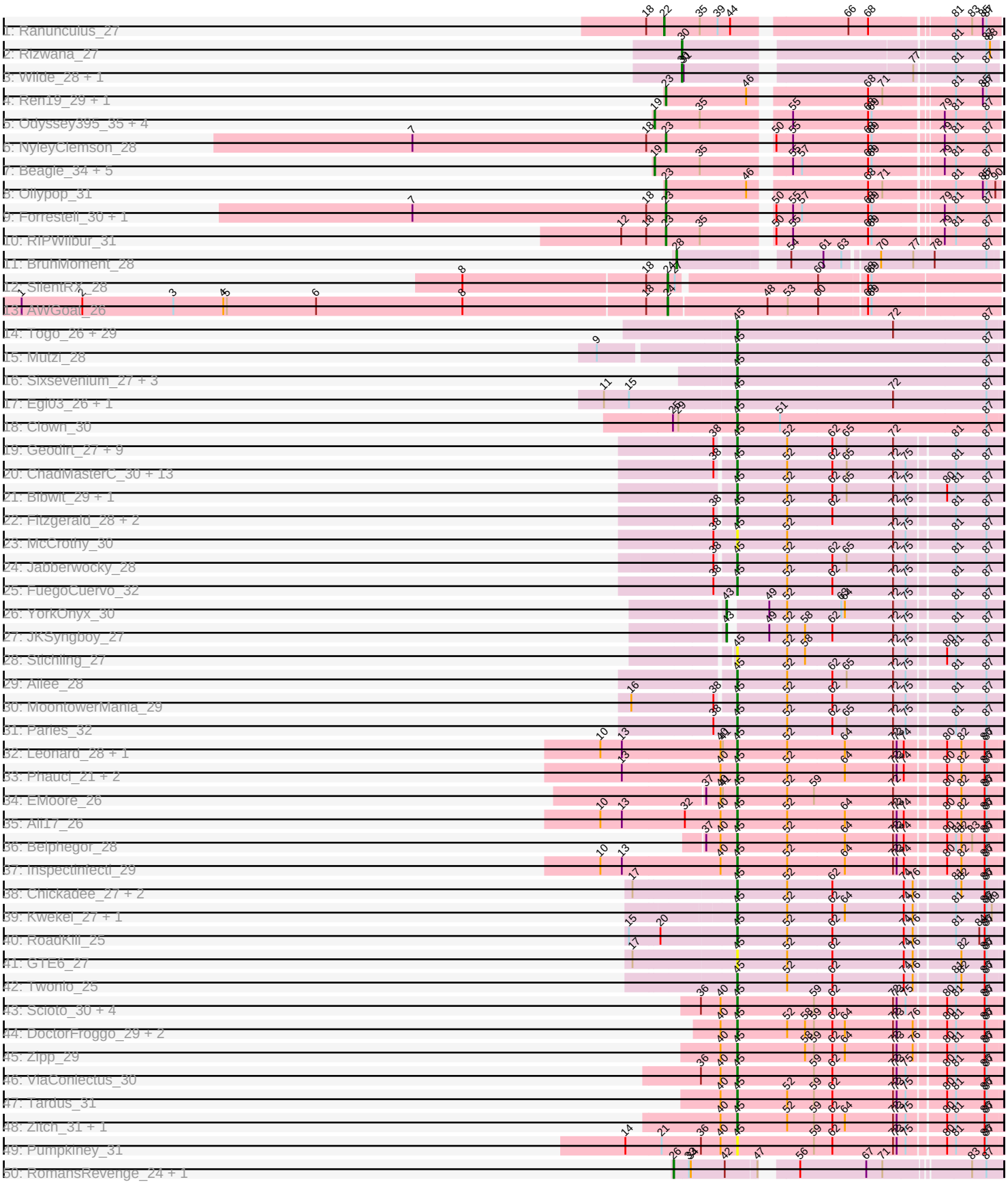
Pham 347374


1: Ranunculus_27
2: Rizwana_27
3: Wilde_28 + 1
4: Ren19_29 + 1
5: Odyssey395_35 + 4
6: NyleyClemson_28
7: Beagle_34 + 5
8: Ollypop_31
9: Forrestell_30 + 1
10: RIPWilbur_31
11: BrunMoment_28
12: SilentRX_28
13: AWGoat_26
14: Togo_26 + 29
15: Mutzi_28
16: Sixsevenium_27 + 3
17: Egl03_26 + 1
18: Clown_30
19: Geodint_27 + 9
20: ChadMasterC_30 + 13
21: Blowit_29 + 1
22: Fitzgerald_28 + 2
23: McCrotny_30
24: Jabberwocky_28
25: FuegoCuervo_32
26: YorkOnyx_30
27: JKSyngboy_27
28: Stichling_27
29: Allee_28
30: MoontowerMania_29
31: Parles_32
32: Leonard_28 + 1
33: Phauci_21 + 2
34: EMoore_26
35: Ali17_26
36: Belphegor_28
37: Inspectinfecti_29
38: Chickadee_27 + 2
39: Kwekel_27 + 1
40: RoadKill_25
41: GTE6_27
42: Twonlo_25
43: Scioto_30 + 4
44: DoctorFroggo_29 + 2
45: Zipp_29
46: ViaConiectus_30
47: Tardus_31
48: Zitch_31 + 1
49: Pumpkiney_31
50: RomansRevenge_24 + 1

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 347374 Report

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

Pham number 347374 has 134 members, 14 are drafts.

Phages represented in each track:
• Track 1 : Ranunculus_27
• Track 2 : Rizwana_27
• Track 3 : Wilde_28, Tank_28
• Track 4 : Ren19_29, Nikan_29
• Track 5 : Odyssey395_35, BetaFish_33, Pointis_33, PhuzzTulsa_31, Popstraw_31
• Track 6 : NyleyClemson_28
• Track 7 : Beagle_34, MellowYellow_30, DogYard_33, Pureglobe5_35, Hive_33, Kubulix_34
• Track 8 : Ollypop_31
• Track 9 : Forrestell_30, RazzB_29
• Track 10 : RIPWilbur_31
• Track 11 : BruhMoment_28
• Track 12 : SilentRX_28
• Track 13 : AWGoat_26
• Track 14 : Togo_26, Danyall_28, Portcullis_26, Jambalaya_26, TillyBobJoe_26, Halo3_27, KimmyK_28, JohnPork_26, Gezellig_26, PullumCavea_26, PinkCoffee_28, ClamChowder_28, RogerDodger_29, Fugax_28, CoveyB_28, Nubi_26, Shinji_26, CherryCola_29, Salvador_26, Wizard_26, Twister6_28, Fireball_27, Savbucketdawg_26, Evamon_26, Phlop_26, Arri_29, Barb_28, VanDeWege_29, Valary_29, SmokingBunny_26
• Track 15 : Mutzi_28
• Track 16 : Sixsevenium_27, SharkTale_26, YungMoney_28, Bakery_27
• Track 17 : Egi03_26, Sendy_27
• Track 18 : Clown_30
• Track 19 : Geodirt_27, Nordenberg_24, Brandonk123_31, BobBob_27, Fosterous_28, Love_33, McKinley_32, Rofo_30, Galadriel_30, Tangent_30
• Track 20 : ChadMasterC_30, Shivanishola_31, Kewpiedoll_29, Sanjuju_28, Charming_30, Kamashten_29, Affeca_28, Barsten_30, Angelicage_28, Stultus_28, Vivi2_32, Thing3_29, Keitabear_30, Brawn1_26
• Track 21 : Bibwit_29, Sedona_30
• Track 22 : Fitzgerald_28, Sitar_30, Lennon_30
• Track 23 : McCrothy_30
• Track 24 : Jabberwocky_28
• Track 25 : FuegoCuervo_32
• Track 26 : YorkOnyx_30
• Track 27 : JKSyngboy_27
• Track 28 : Stichling_27

• Track 29 : Ailee_28
• Track 30 : MoontowerMania_29
• Track 31 : Paries_32
• Track 32 : Leonard_28, Phinally_28
• Track 33 : Phauci_21, Hans_30, MelBins_29
• Track 34 : EMoore_26
• Track 35 : Ali17_26
• Track 36 : Belphegor_28
• Track 37 : Inspectinfecti_29
• Track 38 : Chickadee_27, Tiamoceli_28, EdmundFerry_26
• Track 39 : Kwekel_27, Dexdert_28
• Track 40 : RoadKill_25
• Track 41 : GTE6_27
• Track 42 : Twonlo_25
• Track 43 : Scioto_30, Natkenzie_30, Abblin_30, APunk_31, Sampson_30
• Track 44 : DoctorFroggo_29, Verity_29, Delrey21_29
• Track 45 : Zipp_29
• Track 46 : ViaConlectus_30
• Track 47 : Tardus_31
• Track 48 : Zitch_31, BigHunkinEater_33
• Track 49 : Pumpkiney_31
• Track 50 : RomansRevenge_24, Boise_24

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

The start number called the most often in the published annotations is 45, it was called in 95 of the 120 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• APunk_31, Abblin_30, Affeca_28, Ailee_28, Ali17_26, Angelicage_28, Arri_29, Bakery_27, Barb_28, Barsten_30, Belphegor_28, Bibwit_29, BigHunkinEater_33, BobBob_27, Brandonk123_31, Brawn1_26, ChadMasterC_30, Charming_30, CherryCola_29, Chickadee_27, ClamChowder_28, Clown_30, CoveyB_28, Danyall_28, Delrey21_29, Dexdert_28, DoctorFroggo_29, EMoore_26, EdmundFerry_26, Egi03_26, Evamon_26, Fireball_27, Fitzgerald_28, Fosterous_28, FuegoCuervo_32, Fugax_28, GTE6_27, Galadriel_30, Geodirt_27, Gezellig_26, Halo3_27, Hans_30, Inspectinfecti_29, Jabberwocky_28, Jambalaya_26, JohnPork_26, Kamashten_29, Keitabear_30, Kewpiedoll_29, KimmyK_28, Kwekel_27, Lennon_30, Leonard_28, Love_33, McCrothy_30, McKinley_32, MelBins_29, MoontowerMania_29, Mutzi_28, Natkenzie_30, Nordenberg_24, Nubi_26, Paries_32, Phauci_21, Phinally_28, Phlop_26, PinkCoffee_28, Portcullis_26, PullumCavea_26, Pumpkiney_31, RoadKill_25, Rofo_30, RogerDodger_29, Salvador_26, Sampson_30, Sanjuju_28, Savbucketdawg_26, Scioto_30, Sedona_30, Sendy_27, SharkTale_26, Shinji_26, Shivanishola_31, Sitar_30, Sixsevenium_27, SmokingBunny_26, Stichling_27, Stultus_28, Tangent_30, Tardus_31, Thing3_29, Tiamoceli_28, TillyBobJoe_26, Togo_26, Twister6_28, Twonlo_25, Valary_29, VanDeWege_29, Verity_29, ViaConlectus_30, Vivi2_32, Wizard_26, YungMoney_28, Zipp_29, Zitch_31,

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

•

Genes that do not have the "Most Annotated" start:
• AWGoat_26, Beagle_34, BetaFish_33, Boise_24, BruhMoment_28, DogYard_33, Forrestell_30, Hive_33, JKSyngboy_27, Kubulix_34, MellowYellow_30, Nikan_29, NyleyClemson_28, Odyssey395_35, Ollypop_31, PhuzzTulsa_31, Pointis_33, Popstraw_31, Pureglobe5_35, RIPWilbur_31, Ranunculus_27, RazzB_29, Ren19_29, Rizwana_27, RomansRevenge_24, SilentRX_28, Tank_28, Wilde_28, YorkOnyx_30,

Summary by start number:

Start 19:
• Found in 11 of 134 (8.2%) of genes in pham
• Manual Annotations of this start: 8 of 120
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beagle_34 (AP2), BetaFish_33 (AP2), DogYard_33 (AP2), Hive_33 (AP2), Kubulix_34 (AP2), MellowYellow_30 (AP2), Odyssey395_35 (AP2), PhuzzTulsa_31 (AP2), Pointis_33 (AP2), Popstraw_31 (AP2), Pureglobe5_35 (AP2),

Start 22:
• Found in 1 of 134 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 120
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ranunculus_27 (AP),

Start 23:
• Found in 7 of 134 (5.2%) of genes in pham
• Manual Annotations of this start: 7 of 120
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Forrestell_30 (AP2), Nikan_29 (AP2), NyleyClemson_28 (AP2), Ollypop_31 (AP2), RIPWilbur_31 (AP2), RazzB_29 (AP2), Ren19_29 (AP2),

Start 24:
• Found in 2 of 134 (1.5%) of genes in pham
• Manual Annotations of this start: 2 of 120
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AWGoat_26 (AP4), SilentRX_28 (AP4),

Start 26:
• Found in 2 of 134 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 120
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Boise_24 (FT), RomansRevenge_24 (FT),

Start 28:
• Found in 1 of 134 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 120
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BruhMoment_28 (AP3),

Start 30:
• Found in 3 of 134 (2.2%) of genes in pham
• Manual Annotations of this start: 3 of 120
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rizwana_27 (AP1), Tank_28 (AP1), Wilde_28 (AP1),

Start 43:
• Found in 2 of 134 (1.5%) of genes in pham
• Manual Annotations of this start: 2 of 120
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JKSyngboy_27 (DE1), YorkOnyx_30 (DE1),

Start 45:
• Found in 105 of 134 (78.4%) of genes in pham
• Manual Annotations of this start: 95 of 120
• Called 100.0% of time when present
• Phage (with cluster) where this start called: APunk_31 (DE4), Abblin_30 (DE4), Affeca_28 (DE1), Ailee_28 (DE1), Ali17_26 (DE2), Angelicage_28 (DE1), Arri_29 (DC1), Bakery_27 (DC1), Barb_28 (DC1), Barsten_30 (DE1), Belphegor_28 (DE2), Bibwit_29 (DE1), BigHunkinEater_33 (DE4), BobBob_27 (DE1), Brandonk123_31 (DE1), Brawn1_26 (DE1), ChadMasterC_30 (DE1), Charming_30 (DE1), CherryCola_29 (DC1), Chickadee_27 (DE3), ClamChowder_28 (DC1), Clown_30 (DC2), CoveyB_28 (DC1), Danyall_28 (DC1), Delrey21_29 (DE4), Dexdert_28 (DE3), DoctorFroggo_29 (DE4), EMoore_26 (DE2), EdmundFerry_26 (DE3), Egi03_26 (DC1), Evamon_26 (DC1), Fireball_27 (DC1), Fitzgerald_28 (DE1), Fosterous_28 (DE1), FuegoCuervo_32 (DE1), Fugax_28 (DC1), GTE6_27 (DE3), Galadriel_30 (DE1), Geodirt_27 (DE1), Gezellig_26 (DC1), Halo3_27 (DC1), Hans_30 (DE2), Inspectinfecti_29 (DE2), Jabberwocky_28 (DE1), Jambalaya_26 (DC1), JohnPork_26 (DC1), Kamashten_29 (DE1), Keitabear_30 (DE1), Kewpiedoll_29 (DE1), KimmyK_28 (DC1), Kwekel_27 (DE3), Lennon_30 (DE1), Leonard_28 (DE2), Love_33 (DE1), McCrothy_30 (DE1), McKinley_32 (DE1), MelBins_29 (DE2), MoontowerMania_29 (DE1), Mutzi_28 (DC1), Natkenzie_30 (DE4), Nordenberg_24 (DE1), Nubi_26 (DC1), Paries_32 (DE1), Phauci_21 (DE2), Phinally_28 (DE2), Phlop_26 (DC1), PinkCoffee_28 (DC1), Portcullis_26 (DC1), PullumCavea_26 (DC1), Pumpkiney_31 (DE4), RoadKill_25 (DE3), Rofo_30 (DE1), RogerDodger_29 (DC1), Salvador_26 (DC1), Sampson_30 (DE4), Sanjuju_28 (DE1), Savbucketdawg_26 (DC1), Scioto_30 (DE4), Sedona_30 (DE1), Sendy_27 (DC1), SharkTale_26 (DC1), Shinji_26 (DC1), Shivanishola_31 (DE1), Sitar_30 (DE1), Sixsevenium_27 (DC1), SmokingBunny_26 (DC1), Stichling_27 (DE1), Stultus_28 (DE1), Tangent_30 (DE1), Tardus_31 (DE4), Thing3_29 (DE1), Tiamoceli_28 (DE3), TillyBobJoe_26 (DC1), Togo_26 (DC1), Twister6_28 (DC1), Twonlo_25 (DE3), Valary_29 (DC1), VanDeWege_29 (DC1), Verity_29 (DE4), ViaConlectus_30 (DE4), Vivi2_32 (DE1), Wizard_26 (DC1), YungMoney_28 (DC1), Zipp_29 (DE4), Zitch_31 (DE4),

Summary by clusters:

There are 12 clusters represented in this pham: DE3, FT, AP2, DE1, DE2, AP1, DE4, AP4, AP, AP3, DC2, DC1,

Info for manual annotations of cluster AP:
•Start number 22 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:
•Start number 30 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:
•Start number 19 was manually annotated 8 times for cluster AP2.
•Start number 23 was manually annotated 7 times for cluster AP2.

Info for manual annotations of cluster AP3:
•Start number 28 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:
•Start number 24 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster DC1:
•Start number 45 was manually annotated 32 times for cluster DC1.

Info for manual annotations of cluster DC2:
•Start number 45 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE1:
•Start number 43 was manually annotated 2 times for cluster DE1.
•Start number 45 was manually annotated 33 times for cluster DE1.

Info for manual annotations of cluster DE2:
•Start number 45 was manually annotated 9 times for cluster DE2.

Info for manual annotations of cluster DE3:
•Start number 45 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster DE4:
•Start number 45 was manually annotated 13 times for cluster DE4.

Info for manual annotations of cluster FT:
•Start number 26 was manually annotated 1 time for cluster FT.

Gene Information:

Gene: APunk_31 Start: 22352, Stop: 22783, Start Num: 45
Candidate Starts for APunk_31:
(36, 22292), (40, 22325), (Start: 45 @22352 has 95 MA's), (59, 22481), (62, 22511), (72, 22613), (73, 22619), (75, 22634), (80, 22691), (81, 22706), (86, 22754), (87, 22757),

Gene: AWGoat_26 Start: 20869, Stop: 21402, Start Num: 24
Candidate Starts for AWGoat_26:
(1, 19789), (2, 19891), (3, 20044), (4, 20128), (5, 20134), (6, 20284), (8, 20530), (18, 20833), (Start: 24 @20869 has 2 MA's), (48, 21031), (53, 21064), (60, 21115), (68, 21190), (69, 21196),

Gene: Abblin_30 Start: 22964, Stop: 23395, Start Num: 45
Candidate Starts for Abblin_30:

(36, 22904), (40, 22937), (Start: 45 @22964 has 95 MA's), (59, 23093), (62, 23123), (72, 23225), (73, 23231), (75, 23246), (80, 23303), (81, 23318), (86, 23366), (87, 23369),

Gene: Affeca_28 Start: 22852, Stop: 23286, Start Num: 45
Candidate Starts for Affeca_28:
(38, 22822), (Start: 45 @22852 has 95 MA's), (52, 22936), (62, 23011), (65, 23035), (72, 23113), (75, 23134), (81, 23206), (87, 23257),

Gene: Ailee_28 Start: 23561, Stop: 23995, Start Num: 45
Candidate Starts for Ailee_28:
(Start: 45 @23561 has 95 MA's), (52, 23645), (62, 23720), (65, 23744), (72, 23822), (75, 23843), (81, 23915), (87, 23966),

Gene: Ali17_26 Start: 20746, Stop: 21177, Start Num: 45
Candidate Starts for Ali17_26:
(10, 20518), (13, 20554), (32, 20659), (40, 20719), (Start: 45 @20746 has 95 MA's), (52, 20830), (64, 20926), (72, 21007), (73, 21013), (74, 21025), (80, 21085), (82, 21109), (86, 21148), (87, 21151),

Gene: Angelicage_28 Start: 23269, Stop: 23703, Start Num: 45
Candidate Starts for Angelicage_28:
(38, 23239), (Start: 45 @23269 has 95 MA's), (52, 23353), (62, 23428), (65, 23452), (72, 23530), (75, 23551), (81, 23623), (87, 23674),

Gene: Arri_29 Start: 18253, Stop: 18696, Start Num: 45
Candidate Starts for Arri_29:
(Start: 45 @18253 has 95 MA's), (72, 18514), (87, 18670),

Gene: Bakery_27 Start: 17507, Stop: 17950, Start Num: 45
Candidate Starts for Bakery_27:
(Start: 45 @17507 has 95 MA's), (87, 17924),

Gene: Barb_28 Start: 18286, Stop: 18729, Start Num: 45
Candidate Starts for Barb_28:
(Start: 45 @18286 has 95 MA's), (72, 18547), (87, 18703),

Gene: Barsten_30 Start: 22693, Stop: 23127, Start Num: 45
Candidate Starts for Barsten_30:
(38, 22663), (Start: 45 @22693 has 95 MA's), (52, 22777), (62, 22852), (65, 22876), (72, 22954), (75, 22975), (81, 23047), (87, 23098),

Gene: Beagle_34 Start: 20341, Stop: 20871, Start Num: 19
Candidate Starts for Beagle_34:
(Start: 19 @20341 has 8 MA's), (35, 20416), (55, 20545), (57, 20560), (68, 20671), (69, 20677), (79, 20779), (81, 20797), (87, 20848),

Gene: Belphegor_28 Start: 22298, Stop: 22729, Start Num: 45
Candidate Starts for Belphegor_28:
(37, 22247), (40, 22271), (Start: 45 @22298 has 95 MA's), (52, 22382), (64, 22478), (72, 22559), (73, 22565), (74, 22577), (80, 22637), (81, 22652), (82, 22661), (83, 22679), (86, 22700), (87, 22703),

Gene: BetaFish_33 Start: 20535, Stop: 21065, Start Num: 19
Candidate Starts for BetaFish_33:

(Start: 19 @20535 has 8 MA's), (35, 20610), (55, 20739), (68, 20865), (69, 20871), (79, 20973), (81, 20991), (87, 21042),

Gene: Bibwit_29 Start: 22880, Stop: 23314, Start Num: 45
Candidate Starts for Bibwit_29:
(Start: 45 @22880 has 95 MA's), (52, 22964), (62, 23039), (65, 23063), (72, 23141), (75, 23162), (80, 23219), (81, 23234), (87, 23285),

Gene: BigHunkinEater_33 Start: 22135, Stop: 22566, Start Num: 45
Candidate Starts for BigHunkinEater_33:
(40, 22108), (Start: 45 @22135 has 95 MA's), (52, 22219), (59, 22264), (62, 22294), (64, 22315), (72, 22396), (73, 22402), (75, 22417), (80, 22474), (81, 22489), (86, 22537), (87, 22540),

Gene: BobBob_27 Start: 22158, Stop: 22592, Start Num: 45
Candidate Starts for BobBob_27:
(38, 22128), (Start: 45 @22158 has 95 MA's), (52, 22242), (62, 22317), (65, 22341), (72, 22419), (81, 22512), (87, 22563),

Gene: Boise_24 Start: 18816, Stop: 19310, Start Num: 26
Candidate Starts for Boise_24:
(Start: 26 @18816 has 1 MA's), (33, 18840), (34, 18843), (42, 18900), (47, 18951), (56, 18990), (67, 19101), (71, 19128), (83, 19260), (87, 19284),

Gene: Brandonk123_31 Start: 23227, Stop: 23661, Start Num: 45
Candidate Starts for Brandonk123_31:
(38, 23197), (Start: 45 @23227 has 95 MA's), (52, 23311), (62, 23386), (65, 23410), (72, 23488), (81, 23581), (87, 23632),

Gene: Brawn1_26 Start: 22044, Stop: 22478, Start Num: 45
Candidate Starts for Brawn1_26:
(38, 22014), (Start: 45 @22044 has 95 MA's), (52, 22128), (62, 22203), (65, 22227), (72, 22305), (75, 22326), (81, 22398), (87, 22449),

Gene: BruhMoment_28 Start: 19878, Stop: 20363, Start Num: 28
Candidate Starts for BruhMoment_28:
(Start: 28 @19878 has 1 MA's), (54, 20034), (61, 20088), (63, 20118), (70, 20169), (77, 20223), (78, 20259), (87, 20346),

Gene: ChadMasterC_30 Start: 23885, Stop: 24319, Start Num: 45
Candidate Starts for ChadMasterC_30:
(38, 23855), (Start: 45 @23885 has 95 MA's), (52, 23969), (62, 24044), (65, 24068), (72, 24146), (75, 24167), (81, 24239), (87, 24290),

Gene: Charming_30 Start: 22736, Stop: 23170, Start Num: 45
Candidate Starts for Charming_30:
(38, 22706), (Start: 45 @22736 has 95 MA's), (52, 22820), (62, 22895), (65, 22919), (72, 22997), (75, 23018), (81, 23090), (87, 23141),

Gene: CherryCola_29 Start: 18503, Stop: 18946, Start Num: 45
Candidate Starts for CherryCola_29:
(Start: 45 @18503 has 95 MA's), (72, 18764), (87, 18920),

Gene: Chickadee_27 Start: 19601, Stop: 20032, Start Num: 45

Candidate Starts for Chickadee_27:
(17, 19433), (Start: 45 @19601 has 95 MA's), (52, 19685), (62, 19760), (74, 19880), (76, 19895), (81, 19955), (82, 19964), (86, 20003), (87, 20006),

Gene: ClamChowder_28 Start: 18286, Stop: 18729, Start Num: 45
Candidate Starts for ClamChowder_28:
(Start: 45 @18286 has 95 MA's), (72, 18547), (87, 18703),

Gene: Clown_30 Start: 20227, Stop: 20670, Start Num: 45
Candidate Starts for Clown_30:
(25, 20125), (29, 20134), (Start: 45 @20227 has 95 MA's), (51, 20299), (87, 20644),

Gene: CoveyB_28 Start: 18086, Stop: 18529, Start Num: 45
Candidate Starts for CoveyB_28:
(Start: 45 @18086 has 95 MA's), (72, 18347), (87, 18503),

Gene: Danyall_28 Start: 18086, Stop: 18529, Start Num: 45
Candidate Starts for Danyall_28:
(Start: 45 @18086 has 95 MA's), (72, 18347), (87, 18503),

Gene: Delrey21_29 Start: 23097, Stop: 23528, Start Num: 45
Candidate Starts for Delrey21_29:
(40, 23070), (Start: 45 @23097 has 95 MA's), (52, 23181), (58, 23211), (59, 23226), (62, 23256), (64, 23277), (72, 23358), (73, 23364), (76, 23391), (80, 23436), (81, 23451), (86, 23499), (87, 23502),

Gene: Dexdert_28 Start: 20032, Stop: 20463, Start Num: 45
Candidate Starts for Dexdert_28:
(Start: 45 @20032 has 95 MA's), (52, 20116), (62, 20191), (64, 20212), (74, 20311), (76, 20326), (81, 20386), (86, 20434), (87, 20437), (89, 20446),

Gene: DoctorFroggo_29 Start: 23097, Stop: 23528, Start Num: 45
Candidate Starts for DoctorFroggo_29:
(40, 23070), (Start: 45 @23097 has 95 MA's), (52, 23181), (58, 23211), (59, 23226), (62, 23256), (64, 23277), (72, 23358), (73, 23364), (76, 23391), (80, 23436), (81, 23451), (86, 23499), (87, 23502),

Gene: DogYard_33 Start: 20229, Stop: 20759, Start Num: 19
Candidate Starts for DogYard_33:
(Start: 19 @20229 has 8 MA's), (35, 20304), (55, 20433), (57, 20448), (68, 20559), (69, 20565), (79, 20667), (81, 20685), (87, 20736),

Gene: EMoore_26 Start: 21587, Stop: 22018, Start Num: 45
Candidate Starts for EMoore_26:
(37, 21536), (40, 21560), (41, 21563), (Start: 45 @21587 has 95 MA's), (52, 21671), (59, 21716), (72, 21848), (80, 21926), (82, 21950), (86, 21989), (87, 21992),

Gene: EdmundFerry_26 Start: 19630, Stop: 20061, Start Num: 45
Candidate Starts for EdmundFerry_26:
(17, 19462), (Start: 45 @19630 has 95 MA's), (52, 19714), (62, 19789), (74, 19909), (76, 19924), (81, 19984), (82, 19993), (86, 20032), (87, 20035),

Gene: Egi03_26 Start: 17805, Stop: 18248, Start Num: 45
Candidate Starts for Egi03_26:
(11, 17589), (15, 17631), (Start: 45 @17805 has 95 MA's), (72, 18066), (87, 18222),

Gene: Evamon_26 Start: 17572, Stop: 18015, Start Num: 45
Candidate Starts for Evamon_26:
(Start: 45 @17572 has 95 MA's), (72, 17833), (87, 17989),

Gene: Fireball_27 Start: 17704, Stop: 18147, Start Num: 45
Candidate Starts for Fireball_27:
(Start: 45 @17704 has 95 MA's), (72, 17965), (87, 18121),

Gene: Fitzgerald_28 Start: 23319, Stop: 23753, Start Num: 45
Candidate Starts for Fitzgerald_28:
(38, 23289), (Start: 45 @23319 has 95 MA's), (52, 23403), (62, 23478), (72, 23580), (75, 23601), (81, 23673), (87, 23724),

Gene: Forrestell_30 Start: 19040, Stop: 19552, Start Num: 23
Candidate Starts for Forrestell_30:
(7, 18614), (18, 19007), (Start: 23 @19040 has 7 MA's), (50, 19199), (55, 19226), (57, 19241), (68, 19352), (69, 19358), (79, 19460), (81, 19478), (87, 19529),

Gene: Fosterous_28 Start: 23152, Stop: 23586, Start Num: 45
Candidate Starts for Fosterous_28:
(38, 23122), (Start: 45 @23152 has 95 MA's), (52, 23236), (62, 23311), (65, 23335), (72, 23413), (81, 23506), (87, 23557),

Gene: FuegoCuervo_32 Start: 21703, Stop: 22137, Start Num: 45
Candidate Starts for FuegoCuervo_32:
(38, 21664), (Start: 45 @21703 has 95 MA's), (52, 21787), (62, 21862), (72, 21964), (75, 21985), (81, 22057), (87, 22108),

Gene: Fugax_28 Start: 18286, Stop: 18729, Start Num: 45
Candidate Starts for Fugax_28:
(Start: 45 @18286 has 95 MA's), (72, 18547), (87, 18703),

Gene: GTE6_27 Start: 20119, Stop: 20550, Start Num: 45
Candidate Starts for GTE6_27:
(17, 19951), (Start: 45 @20119 has 95 MA's), (52, 20203), (62, 20278), (74, 20398), (76, 20413), (82, 20482), (86, 20521), (87, 20524),

Gene: Galadriel_30 Start: 23641, Stop: 24075, Start Num: 45
Candidate Starts for Galadriel_30:
(38, 23611), (Start: 45 @23641 has 95 MA's), (52, 23725), (62, 23800), (65, 23824), (72, 23902), (81, 23995), (87, 24046),

Gene: Geodirt_27 Start: 22624, Stop: 23058, Start Num: 45
Candidate Starts for Geodirt_27:
(38, 22594), (Start: 45 @22624 has 95 MA's), (52, 22708), (62, 22783), (65, 22807), (72, 22885), (81, 22978), (87, 23029),

Gene: Gezellig_26 Start: 17704, Stop: 18147, Start Num: 45
Candidate Starts for Gezellig_26:
(Start: 45 @17704 has 95 MA's), (72, 17965), (87, 18121),

Gene: Halo3_27 Start: 17997, Stop: 18440, Start Num: 45

Candidate Starts for Halo3_27:
(Start: 45 @17997 has 95 MA's), (72, 18258), (87, 18414),

Gene: Hans_30 Start: 21408, Stop: 21839, Start Num: 45
Candidate Starts for Hans_30:
(13, 21216), (40, 21381), (Start: 45 @21408 has 95 MA's), (52, 21492), (64, 21588), (72, 21669), (73, 21675), (74, 21687), (80, 21747), (82, 21771), (86, 21810), (87, 21813),

Gene: Hive_33 Start: 20416, Stop: 20946, Start Num: 19
Candidate Starts for Hive_33:
(Start: 19 @20416 has 8 MA's), (35, 20491), (55, 20620), (57, 20635), (68, 20746), (69, 20752), (79, 20854), (81, 20872), (87, 20923),

Gene: Inspectinfecti_29 Start: 21832, Stop: 22263, Start Num: 45
Candidate Starts for Inspectinfecti_29:
(10, 21604), (13, 21640), (40, 21805), (Start: 45 @21832 has 95 MA's), (52, 21916), (64, 22012), (72, 22093), (73, 22099), (74, 22111), (80, 22171), (82, 22195), (86, 22234), (87, 22237),

Gene: JKSyngboy_27 Start: 22410, Stop: 22844, Start Num: 43
Candidate Starts for JKSyngboy_27:
(Start: 43 @22410 has 2 MA's), (49, 22464), (52, 22494), (58, 22524), (62, 22569), (72, 22671), (75, 22692), (81, 22764), (87, 22815),

Gene: Jabberwocky_28 Start: 23780, Stop: 24214, Start Num: 45
Candidate Starts for Jabberwocky_28:
(38, 23750), (Start: 45 @23780 has 95 MA's), (52, 23864), (62, 23939), (65, 23963), (72, 24041), (75, 24062), (81, 24134), (87, 24185),

Gene: Jambalaya_26 Start: 17351, Stop: 17794, Start Num: 45
Candidate Starts for Jambalaya_26:
(Start: 45 @17351 has 95 MA's), (72, 17612), (87, 17768),

Gene: JohnPork_26 Start: 17599, Stop: 18042, Start Num: 45
Candidate Starts for JohnPork_26:
(Start: 45 @17599 has 95 MA's), (72, 17860), (87, 18016),

Gene: Kamashten_29 Start: 23229, Stop: 23663, Start Num: 45
Candidate Starts for Kamashten_29:
(38, 23199), (Start: 45 @23229 has 95 MA's), (52, 23313), (62, 23388), (65, 23412), (72, 23490), (75, 23511), (81, 23583), (87, 23634),

Gene: Keitabear_30 Start: 24585, Stop: 25019, Start Num: 45
Candidate Starts for Keitabear_30:
(38, 24555), (Start: 45 @24585 has 95 MA's), (52, 24669), (62, 24744), (65, 24768), (72, 24846), (75, 24867), (81, 24939), (87, 24990),

Gene: Kewpiedoll_29 Start: 22426, Stop: 22860, Start Num: 45
Candidate Starts for Kewpiedoll_29:
(38, 22396), (Start: 45 @22426 has 95 MA's), (52, 22510), (62, 22585), (65, 22609), (72, 22687), (75, 22708), (81, 22780), (87, 22831),

Gene: KimmyK_28 Start: 18286, Stop: 18729, Start Num: 45
Candidate Starts for KimmyK_28:

(Start: 45 @18286 has 95 MA's), (72, 18547), (87, 18703),

Gene: Kubulix_34 Start: 20525, Stop: 21055, Start Num: 19
Candidate Starts for Kubulix_34:
(Start: 19 @20525 has 8 MA's), (35, 20600), (55, 20729), (57, 20744), (68, 20855), (69, 20861), (79, 20963), (81, 20981), (87, 21032),

Gene: Kwekel_27 Start: 19551, Stop: 19982, Start Num: 45
Candidate Starts for Kwekel_27:
(Start: 45 @19551 has 95 MA's), (52, 19635), (62, 19710), (64, 19731), (74, 19830), (76, 19845), (81, 19905), (86, 19953), (87, 19956), (89, 19965),

Gene: Lennon_30 Start: 24387, Stop: 24821, Start Num: 45
Candidate Starts for Lennon_30:
(38, 24357), (Start: 45 @24387 has 95 MA's), (52, 24471), (62, 24546), (72, 24648), (75, 24669), (81, 24741), (87, 24792),

Gene: Leonard_28 Start: 21406, Stop: 21837, Start Num: 45
Candidate Starts for Leonard_28:
(10, 21178), (13, 21214), (40, 21379), (41, 21382), (Start: 45 @21406 has 95 MA's), (52, 21490), (64, 21586), (72, 21667), (73, 21673), (74, 21685), (80, 21745), (82, 21769), (86, 21808), (87, 21811),

Gene: Love_33 Start: 24151, Stop: 24585, Start Num: 45
Candidate Starts for Love_33:
(38, 24121), (Start: 45 @24151 has 95 MA's), (52, 24235), (62, 24310), (65, 24334), (72, 24412), (81, 24505), (87, 24556),

Gene: McCrothy_30 Start: 23959, Stop: 24393, Start Num: 45
Candidate Starts for McCrothy_30:
(38, 23920), (Start: 45 @23959 has 95 MA's), (52, 24043), (72, 24220), (75, 24241), (81, 24313), (87, 24364),

Gene: McKinley_32 Start: 24183, Stop: 24617, Start Num: 45
Candidate Starts for McKinley_32:
(38, 24153), (Start: 45 @24183 has 95 MA's), (52, 24267), (62, 24342), (65, 24366), (72, 24444), (81, 24537), (87, 24588),

Gene: MelBins_29 Start: 21614, Stop: 22045, Start Num: 45
Candidate Starts for MelBins_29:
(13, 21422), (40, 21587), (Start: 45 @21614 has 95 MA's), (52, 21698), (64, 21794), (72, 21875), (73, 21881), (74, 21893), (80, 21953), (82, 21977), (86, 22016), (87, 22019),

Gene: MellowYellow_30 Start: 19076, Stop: 19606, Start Num: 19
Candidate Starts for MellowYellow_30:
(Start: 19 @19076 has 8 MA's), (35, 19151), (55, 19280), (57, 19295), (68, 19406), (69, 19412), (79, 19514), (81, 19532), (87, 19583),

Gene: MoontowerMania_29 Start: 22994, Stop: 23428, Start Num: 45
Candidate Starts for MoontowerMania_29:
(16, 22829), (38, 22964), (Start: 45 @22994 has 95 MA's), (52, 23078), (62, 23153), (72, 23255), (75, 23276), (81, 23348), (87, 23399),

Gene: Mutzi_28 Start: 18027, Stop: 18470, Start Num: 45

Candidate Starts for Mutzi_28:
(9, 17811), (Start: 45 @18027 has 95 MA's), (87, 18444),

Gene: Natkenzie_30 Start: 22964, Stop: 23395, Start Num: 45
Candidate Starts for Natkenzie_30:
(36, 22904), (40, 22937), (Start: 45 @22964 has 95 MA's), (59, 23093), (62, 23123), (72, 23225), (73, 23231), (75, 23246), (80, 23303), (81, 23318), (86, 23366), (87, 23369),

Gene: Nikan_29 Start: 19422, Stop: 19934, Start Num: 23
Candidate Starts for Nikan_29:
(Start: 23 @19422 has 7 MA's), (46, 19557), (68, 19734), (71, 19758), (81, 19860), (85, 19905), (87, 19911),

Gene: Nordenberg_24 Start: 22353, Stop: 22787, Start Num: 45
Candidate Starts for Nordenberg_24:
(38, 22323), (Start: 45 @22353 has 95 MA's), (52, 22437), (62, 22512), (65, 22536), (72, 22614), (81, 22707), (87, 22758),

Gene: Nubi_26 Start: 17592, Stop: 18035, Start Num: 45
Candidate Starts for Nubi_26:
(Start: 45 @17592 has 95 MA's), (72, 17853), (87, 18009),

Gene: NyleyClemson_28 Start: 19021, Stop: 19533, Start Num: 23
Candidate Starts for NyleyClemson_28:
(7, 18595), (18, 18988), (Start: 23 @19021 has 7 MA's), (50, 19180), (55, 19207), (68, 19333), (69, 19339), (79, 19441), (81, 19459), (87, 19510),

Gene: Odyssey395_35 Start: 20354, Stop: 20884, Start Num: 19
Candidate Starts for Odyssey395_35:
(Start: 19 @20354 has 8 MA's), (35, 20429), (55, 20558), (68, 20684), (69, 20690), (79, 20792), (81, 20810), (87, 20861),

Gene: Ollypop_31 Start: 19444, Stop: 19956, Start Num: 23
Candidate Starts for Ollypop_31:
(Start: 23 @19444 has 7 MA's), (46, 19579), (68, 19756), (71, 19780), (81, 19882), (85, 19927), (87, 19933), (90, 19948),

Gene: Paries_32 Start: 23819, Stop: 24253, Start Num: 45
Candidate Starts for Paries_32:
(38, 23780), (Start: 45 @23819 has 95 MA's), (52, 23903), (62, 23978), (65, 24002), (72, 24080), (75, 24101), (81, 24173), (87, 24224),

Gene: Phauci_21 Start: 17995, Stop: 18426, Start Num: 45
Candidate Starts for Phauci_21:
(13, 17803), (40, 17968), (Start: 45 @17995 has 95 MA's), (52, 18079), (64, 18175), (72, 18256), (73, 18262), (74, 18274), (80, 18334), (82, 18358), (86, 18397), (87, 18400),

Gene: Phinally_28 Start: 21403, Stop: 21834, Start Num: 45
Candidate Starts for Phinally_28:
(10, 21175), (13, 21211), (40, 21376), (41, 21379), (Start: 45 @21403 has 95 MA's), (52, 21487), (64, 21583), (72, 21664), (73, 21670), (74, 21682), (80, 21742), (82, 21766), (86, 21805), (87, 21808),

Gene: Phlop_26 Start: 17656, Stop: 18099, Start Num: 45

Candidate Starts for Phlop_26:
(Start: 45 @17656 has 95 MA's), (72, 17917), (87, 18073),

Gene: PhuzzTulsa_31 Start: 20314, Stop: 20844, Start Num: 19
Candidate Starts for PhuzzTulsa_31:
(Start: 19 @20314 has 8 MA's), (35, 20389), (55, 20518), (68, 20644), (69, 20650), (79, 20752), (81, 20770), (87, 20821),

Gene: PinkCoffee_28 Start: 18295, Stop: 18738, Start Num: 45
Candidate Starts for PinkCoffee_28:
(Start: 45 @18295 has 95 MA's), (72, 18556), (87, 18712),

Gene: Pointis_33 Start: 20358, Stop: 20888, Start Num: 19
Candidate Starts for Pointis_33:
(Start: 19 @20358 has 8 MA's), (35, 20433), (55, 20562), (68, 20688), (69, 20694), (79, 20796), (81, 20814), (87, 20865),

Gene: Popstraw_31 Start: 20144, Stop: 20674, Start Num: 19
Candidate Starts for Popstraw_31:
(Start: 19 @20144 has 8 MA's), (35, 20219), (55, 20348), (68, 20474), (69, 20480), (79, 20582), (81, 20600), (87, 20651),

Gene: Portcullis_26 Start: 17599, Stop: 18042, Start Num: 45
Candidate Starts for Portcullis_26:
(Start: 45 @17599 has 95 MA's), (72, 17860), (87, 18016),

Gene: PullumCavea_26 Start: 17656, Stop: 18099, Start Num: 45
Candidate Starts for PullumCavea_26:
(Start: 45 @17656 has 95 MA's), (72, 17917), (87, 18073),

Gene: Pumpkiney_31 Start: 20284, Stop: 20715, Start Num: 45
Candidate Starts for Pumpkiney_31:
(14, 20098), (21, 20158), (36, 20224), (40, 20257), (Start: 45 @20284 has 95 MA's), (59, 20413), (62, 20443), (72, 20545), (73, 20551), (75, 20566), (80, 20623), (81, 20638), (86, 20686), (87, 20689),

Gene: Pureglobe5_35 Start: 20541, Stop: 21071, Start Num: 19
Candidate Starts for Pureglobe5_35:
(Start: 19 @20541 has 8 MA's), (35, 20616), (55, 20745), (57, 20760), (68, 20871), (69, 20877), (79, 20979), (81, 20997), (87, 21048),

Gene: RIPWilbur_31 Start: 19686, Stop: 20198, Start Num: 23
Candidate Starts for RIPWilbur_31:
(12, 19611), (18, 19653), (Start: 23 @19686 has 7 MA's), (35, 19743), (50, 19845), (55, 19872), (68, 19998), (69, 20004), (79, 20106), (81, 20124), (87, 20175),

Gene: Ranunculus_27 Start: 19454, Stop: 19969, Start Num: 22
Candidate Starts for Ranunculus_27:
(18, 19424), (Start: 22 @19454 has 1 MA's), (35, 19514), (39, 19544), (44, 19565), (66, 19736), (68, 19769), (81, 19895), (83, 19922), (85, 19940), (87, 19946),

Gene: RazzB_29 Start: 18840, Stop: 19352, Start Num: 23
Candidate Starts for RazzB_29:

(7, 18414), (18, 18807), (Start: 23 @18840 has 7 MA's), (50, 18999), (55, 19026), (57, 19041), (68, 19152), (69, 19158), (79, 19260), (81, 19278), (87, 19329),

Gene: Ren19_29 Start: 19422, Stop: 19934, Start Num: 23
Candidate Starts for Ren19_29:
(Start: 23 @19422 has 7 MA's), (46, 19557), (68, 19734), (71, 19758), (81, 19860), (85, 19905), (87, 19911),

Gene: Rizwana_27 Start: 19558, Stop: 20037, Start Num: 30
Candidate Starts for Rizwana_27:
(Start: 30 @19558 has 3 MA's), (81, 19966), (87, 20017), (88, 20023),

Gene: RoadKill_25 Start: 19107, Stop: 19538, Start Num: 45
Candidate Starts for RoadKill_25:
(15, 18933), (20, 18984), (Start: 45 @19107 has 95 MA's), (52, 19191), (62, 19266), (74, 19386), (76, 19401), (81, 19461), (84, 19500), (86, 19509), (87, 19512),

Gene: Rofo_30 Start: 23214, Stop: 23648, Start Num: 45
Candidate Starts for Rofo_30:
(38, 23184), (Start: 45 @23214 has 95 MA's), (52, 23298), (62, 23373), (65, 23397), (72, 23475), (81, 23568), (87, 23619),

Gene: RogerDodger_29 Start: 18449, Stop: 18892, Start Num: 45
Candidate Starts for RogerDodger_29:
(Start: 45 @18449 has 95 MA's), (72, 18710), (87, 18866),

Gene: RomansRevenge_24 Start: 18816, Stop: 19310, Start Num: 26
Candidate Starts for RomansRevenge_24:
(Start: 26 @18816 has 1 MA's), (33, 18840), (34, 18843), (42, 18900), (47, 18951), (56, 18990), (67, 19101), (71, 19128), (83, 19260), (87, 19284),

Gene: Salvador_26 Start: 17570, Stop: 18013, Start Num: 45
Candidate Starts for Salvador_26:
(Start: 45 @17570 has 95 MA's), (72, 17831), (87, 17987),

Gene: Sampson_30 Start: 22909, Stop: 23340, Start Num: 45
Candidate Starts for Sampson_30:
(36, 22849), (40, 22882), (Start: 45 @22909 has 95 MA's), (59, 23038), (62, 23068), (72, 23170), (73, 23176), (75, 23191), (80, 23248), (81, 23263), (86, 23311), (87, 23314),

Gene: Sanjuju_28 Start: 23395, Stop: 23829, Start Num: 45
Candidate Starts for Sanjuju_28:
(38, 23365), (Start: 45 @23395 has 95 MA's), (52, 23479), (62, 23554), (65, 23578), (72, 23656), (75, 23677), (81, 23749), (87, 23800),

Gene: Savbucketdawg_26 Start: 17351, Stop: 17794, Start Num: 45
Candidate Starts for Savbucketdawg_26:
(Start: 45 @17351 has 95 MA's), (72, 17612), (87, 17768),

Gene: Scioto_30 Start: 22964, Stop: 23395, Start Num: 45
Candidate Starts for Scioto_30:
(36, 22904), (40, 22937), (Start: 45 @22964 has 95 MA's), (59, 23093), (62, 23123), (72, 23225), (73, 23231), (75, 23246), (80, 23303), (81, 23318), (86, 23366), (87, 23369),

Gene: Sedona_30 Start: 24320, Stop: 24754, Start Num: 45
Candidate Starts for Sedona_30:
(Start: 45 @24320 has 95 MA's), (52, 24404), (62, 24479), (65, 24503), (72, 24581), (75, 24602), (80, 24659), (81, 24674), (87, 24725),

Gene: Sendy_27 Start: 17805, Stop: 18248, Start Num: 45
Candidate Starts for Sendy_27:
(11, 17589), (15, 17631), (Start: 45 @17805 has 95 MA's), (72, 18066), (87, 18222),

Gene: SharkTale_26 Start: 18370, Stop: 18813, Start Num: 45
Candidate Starts for SharkTale_26:
(Start: 45 @18370 has 95 MA's), (87, 18787),

Gene: Shinji_26 Start: 17540, Stop: 17983, Start Num: 45
Candidate Starts for Shinji_26:
(Start: 45 @17540 has 95 MA's), (72, 17801), (87, 17957),

Gene: Shivanishola_31 Start: 23294, Stop: 23728, Start Num: 45
Candidate Starts for Shivanishola_31:
(38, 23264), (Start: 45 @23294 has 95 MA's), (52, 23378), (62, 23453), (65, 23477), (72, 23555), (75, 23576), (81, 23648), (87, 23699),

Gene: SilentRX_28 Start: 20590, Stop: 21114, Start Num: 24
Candidate Starts for SilentRX_28:
(8, 20251), (18, 20554), (Start: 24 @20590 has 2 MA's), (27, 20602), (60, 20827), (68, 20902), (69, 20908),

Gene: Sitar_30 Start: 24387, Stop: 24821, Start Num: 45
Candidate Starts for Sitar_30:
(38, 24357), (Start: 45 @24387 has 95 MA's), (52, 24471), (62, 24546), (72, 24648), (75, 24669), (81, 24741), (87, 24792),

Gene: Sixsevenium_27 Start: 17507, Stop: 17950, Start Num: 45
Candidate Starts for Sixsevenium_27:
(Start: 45 @17507 has 95 MA's), (87, 17924),

Gene: SmokingBunny_26 Start: 17570, Stop: 18013, Start Num: 45
Candidate Starts for SmokingBunny_26:
(Start: 45 @17570 has 95 MA's), (72, 17831), (87, 17987),

Gene: Stichling_27 Start: 21367, Stop: 21801, Start Num: 45
Candidate Starts for Stichling_27:
(Start: 45 @21367 has 95 MA's), (52, 21451), (58, 21481), (72, 21628), (75, 21649), (80, 21706), (81, 21721), (87, 21772),

Gene: Stultus_28 Start: 22302, Stop: 22736, Start Num: 45
Candidate Starts for Stultus_28:
(38, 22272), (Start: 45 @22302 has 95 MA's), (52, 22386), (62, 22461), (65, 22485), (72, 22563), (75, 22584), (81, 22656), (87, 22707),

Gene: Tangent_30 Start: 22736, Stop: 23170, Start Num: 45
Candidate Starts for Tangent_30:

(38, 22706), (Start: 45 @22736 has 95 MA's), (52, 22820), (62, 22895), (65, 22919), (72, 22997), (81, 23090), (87, 23141),

Gene: Tank_28 Start: 19505, Stop: 19984, Start Num: 30
Candidate Starts for Tank_28:
(Start: 30 @19505 has 3 MA's), (31, 19508), (77, 19853), (81, 19913), (87, 19964),

Gene: Tardus_31 Start: 22245, Stop: 22676, Start Num: 45
Candidate Starts for Tardus_31:
(40, 22218), (Start: 45 @22245 has 95 MA's), (52, 22329), (59, 22374), (62, 22404), (72, 22506), (73, 22512), (75, 22527), (80, 22584), (81, 22599), (86, 22647), (87, 22650),

Gene: Thing3_29 Start: 23229, Stop: 23663, Start Num: 45
Candidate Starts for Thing3_29:
(38, 23199), (Start: 45 @23229 has 95 MA's), (52, 23313), (62, 23388), (65, 23412), (72, 23490), (75, 23511), (81, 23583), (87, 23634),

Gene: Tiamoceli_28 Start: 20458, Stop: 20889, Start Num: 45
Candidate Starts for Tiamoceli_28:
(17, 20290), (Start: 45 @20458 has 95 MA's), (52, 20542), (62, 20617), (74, 20737), (76, 20752), (81, 20812), (82, 20821), (86, 20860), (87, 20863),

Gene: TillyBobJoe_26 Start: 17354, Stop: 17797, Start Num: 45
Candidate Starts for TillyBobJoe_26:
(Start: 45 @17354 has 95 MA's), (72, 17615), (87, 17771),

Gene: Togo_26 Start: 17570, Stop: 18013, Start Num: 45
Candidate Starts for Togo_26:
(Start: 45 @17570 has 95 MA's), (72, 17831), (87, 17987),

Gene: Twister6_28 Start: 17997, Stop: 18440, Start Num: 45
Candidate Starts for Twister6_28:
(Start: 45 @17997 has 95 MA's), (72, 18258), (87, 18414),

Gene: Twonlo_25 Start: 19076, Stop: 19507, Start Num: 45
Candidate Starts for Twonlo_25:
(Start: 45 @19076 has 95 MA's), (52, 19160), (62, 19235), (74, 19355), (76, 19370), (81, 19430), (82, 19439), (86, 19478), (87, 19481),

Gene: Valary_29 Start: 18503, Stop: 18946, Start Num: 45
Candidate Starts for Valary_29:
(Start: 45 @18503 has 95 MA's), (72, 18764), (87, 18920),

Gene: VanDeWege_29 Start: 18378, Stop: 18821, Start Num: 45
Candidate Starts for VanDeWege_29:
(Start: 45 @18378 has 95 MA's), (72, 18639), (87, 18795),

Gene: Verity_29 Start: 23097, Stop: 23528, Start Num: 45
Candidate Starts for Verity_29:
(40, 23070), (Start: 45 @23097 has 95 MA's), (52, 23181), (58, 23211), (59, 23226), (62, 23256), (64, 23277), (72, 23358), (73, 23364), (76, 23391), (80, 23436), (81, 23451), (86, 23499), (87, 23502),

Gene: ViaConlectus_30 Start: 21588, Stop: 22019, Start Num: 45

Candidate Starts for ViaConlectus_30:
(36, 21528), (40, 21561), (Start: 45 @21588 has 95 MA's), (59, 21717), (62, 21747), (72, 21849), (73, 21855), (75, 21870), (80, 21927), (81, 21942), (86, 21990), (87, 21993),

Gene: Vivi2_32 Start: 23909, Stop: 24343, Start Num: 45
Candidate Starts for Vivi2_32:
(38, 23879), (Start: 45 @23909 has 95 MA's), (52, 23993), (62, 24068), (65, 24092), (72, 24170), (75, 24191), (81, 24263), (87, 24314),

Gene: Wilde_28 Start: 19434, Stop: 19913, Start Num: 30
Candidate Starts for Wilde_28:
(Start: 30 @19434 has 3 MA's), (31, 19437), (77, 19782), (81, 19842), (87, 19893),

Gene: Wizard_26 Start: 17704, Stop: 18147, Start Num: 45
Candidate Starts for Wizard_26:
(Start: 45 @17704 has 95 MA's), (72, 17965), (87, 18121),

Gene: YorkOnyx_30 Start: 22083, Stop: 22517, Start Num: 43
Candidate Starts for YorkOnyx_30:
(Start: 43 @22083 has 2 MA's), (49, 22137), (52, 22167), (63, 22257), (64, 22263), (72, 22344), (75, 22365), (81, 22437), (87, 22488),

Gene: YungMoney_28 Start: 19070, Stop: 19513, Start Num: 45
Candidate Starts for YungMoney_28:
(Start: 45 @19070 has 95 MA's), (87, 19487),

Gene: Zipp_29 Start: 22994, Stop: 23425, Start Num: 45
Candidate Starts for Zipp_29:
(40, 22967), (Start: 45 @22994 has 95 MA's), (58, 23108), (59, 23123), (62, 23153), (64, 23174), (72, 23255), (73, 23261), (76, 23288), (80, 23333), (81, 23348), (86, 23396), (87, 23399),

Gene: Zitch_31 Start: 20868, Stop: 21299, Start Num: 45
Candidate Starts for Zitch_31:
(40, 20841), (Start: 45 @20868 has 95 MA's), (52, 20952), (59, 20997), (62, 21027), (64, 21048), (72, 21129), (73, 21135), (75, 21150), (80, 21207), (81, 21222), (86, 21270), (87, 21273),