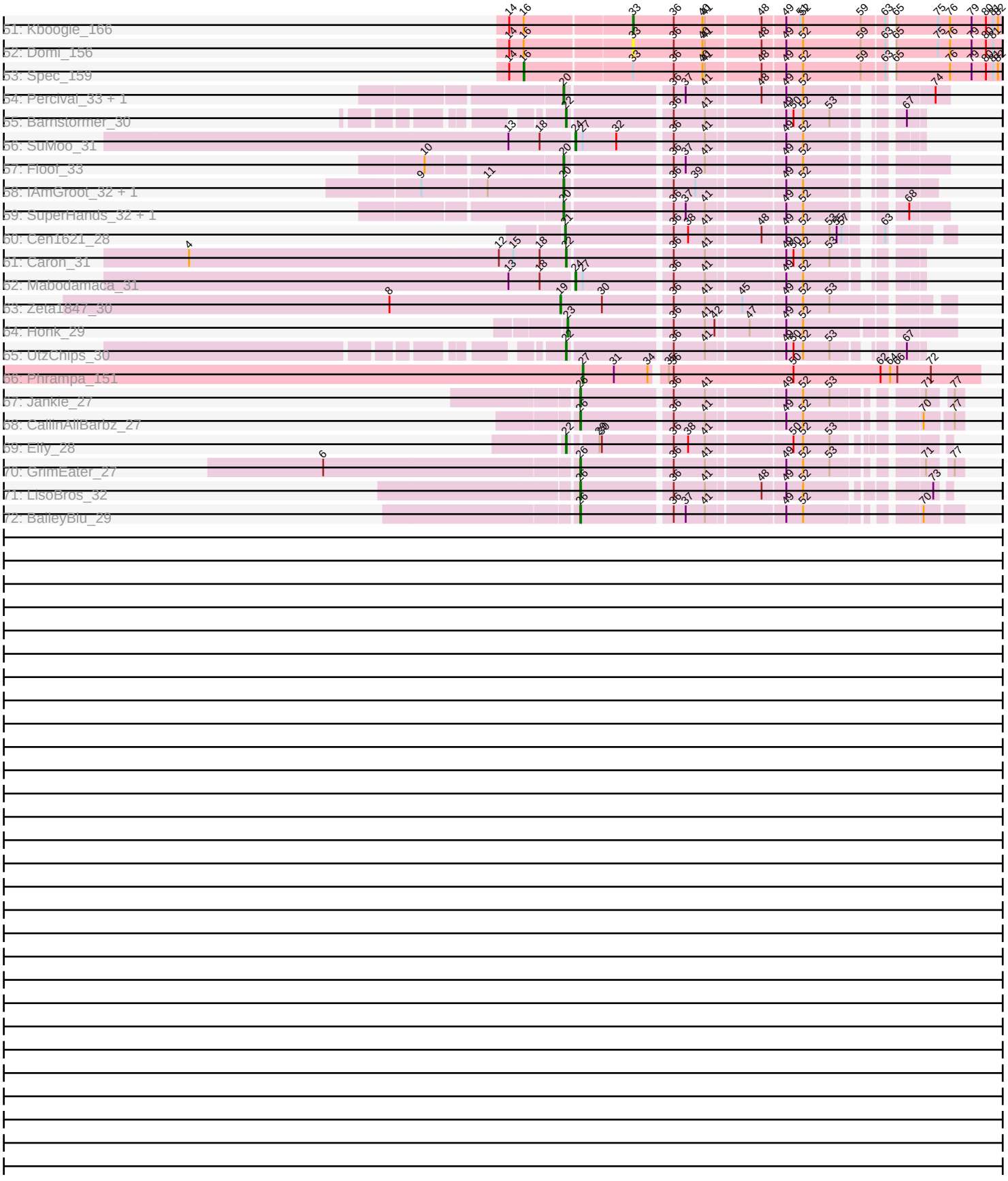
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1: Michkear_30
2: ThursdayNight_31
3: Mudpuppy_28 + 7
4: Elezi_30 + 3
5: Nimbe_30 + 4
6: ObiToo_31
7: Cassia_29
8: Tuck_32
9: Lizalica_28
10: Adumb2043_28 + 3
11: DrManhattan_27 + 1
12: Powerpuff_28 + 2
13: London_30
14: Pumpkins_29
15: Phives_31 + 2
16: Ascela_29 + 1
17: Crewmate_32
18: AGrandMora_29 + 1
19: Tbone_28 + 1
20: Warda_28
21: Nitro_29
22: MissSwiss_27 + 4
23: Schaffner_29
24: Yang_29
25: Janeemi_31
26: Pixelle_29
27: KeAlli_29
28: MorMoy_30
29: Sue2_30
30: VResidence_29
31: DrSierra_28
32: IUFootball_29 + 2
33: MaGuCo_27
34: Snek_29 + 1
35: Emotion_34
36: FiveHead_37 + 1
37: LadyAstra_34 + 1
38: SnakeItOph_34 + 2
39: VroomVroom_34 + 1
40: Sabourin_27 + 14
41: SpecialK_27
42: Exile_28
43: Soondubu_28
44: AimMach_30
45: Sollertia_128 + 3
46: Forrest_134 + 1
47: DeluluLabubu_131
48: Basquiat_160 + 22
49: Ading_164 + 8
50: BobaPhatt_158 + 1

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51: Kboogie_166
52: Domi_156
53: Spec_159
54: Percival_33 + 1
55: Barnstormer_30
56: SuMoo_31
57: Floof_33
58: IAmGroot_32 + 1
59: SuperHands_32 + 1
60: Cen1621_28
61: Caron_31
62: Mabodamaca_31
63: Zeta1847_30
64: Honk_29
65: UtzChips_30
66: Phrampa_151
67: Jankie_27
68: CallinAllBarbz_27
69: Elly_28
70: GrimEater_27
71: LisoBros_32
72: BaileyBlu_29

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 347329 Report

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

Pham number 347329 has 161 members, 18 are drafts.

Phages represented in each track:
• Track 1 : Michkear_30
• Track 2 : ThursdayNight_31
• Track 3 : Mudpuppy_28, Kaylissa_28, Tutumahutu_28, Joemato_28, Cyan_28, JohnDoe_28, Simpson_30, Flutur_28
• Track 4 : Elezi_30, Subaru_30, Tian_29, Amyev_29
• Track 5 : Niobe_30, Asa16_30, Jstan_32, Eraser_30, Skelbel_31
• Track 6 : ObiToo_31
• Track 7 : Cassia_29
• Track 8 : Tuck_32
• Track 9 : Lizalica_28
• Track 10 : Adumb2043_28, Turab_28, Amploria_28, AEgle_28
• Track 11 : DrManhattan_27, Adolin_27
• Track 12 : Powerpuff_28, YesChef_28, Wildwest_29
• Track 13 : London_30
• Track 14 : Pumpkins_29
• Track 15 : Phives_31, Berrie_30, Community_30
• Track 16 : Ascela_29, Iter_29
• Track 17 : Crewmate_32
• Track 18 : AGrandiflora_29, Lego_28
• Track 19 : Tbone_28, Tallboi_29
• Track 20 : Warda_28
• Track 21 : Nitro_29
• Track 22 : MissSwiss_27, Reedo_28, JuneStar_29, PandaPo_27, IttyBittyPiggy_29
• Track 23 : Schaffner_29
• Track 24 : Yang_29
• Track 25 : Janeemi_31
• Track 26 : Pixelle_29
• Track 27 : KeAlii_29
• Track 28 : TforTroy_30
• Track 29 : Sue2_30
• Track 30 : VResidence_29
• Track 31 : DrSierra_28
• Track 32 : IUFootball_29, Liebe_29, Maureen_29
• Track 33 : MaGuCo_27
• Track 34 : Snek_29, Tweety19_29
• Track 35 : Emotion_34
• Track 36 : FiveHead_37, JohnThicc_34

• Track 37 : LadyAstra_34, Origami_34
• Track 38 : ShakeItOph_34, JasmineDragon_34, MiniMommy_34
• Track 39 : VroomVroom_34, AceofSpades_34
• Track 40 : Sabourin_27, Sooty_27, Gumpizza_27, Ashes_27, Halsey_27, Giorgio_27, Moss_27, Beaupre_27, Mysterium_27, RockScotty_27, Donkey_27, Stuu_27, Kalimba_27, Cappuccino_27, Gambol_27
• Track 41 : SpecialK_27
• Track 42 : Exile_28
• Track 43 : Soondubu_28
• Track 44 : AinMach_30
• Track 45 : Sollertia_128, BoomerJR_129, Stanimal_127, Genie2_129
• Track 46 : Forrest_134, Jada_130
• Track 47 : DeluluLabubu_131
• Track 48 : Basquiat_160, YoungMoneyMata_164, Bowman_165, Ronan_158, Halldule_156, FudgeTart_160, Chargie21_160, Labradorite_163, Ablatia_163, InterFolia_168, Lee7_165, OrediggerDelux_165, Sprinklers_160, Astraea_158, Rahel_165, Maby2021_162, MikeLiesIn_164, Primadonna_157, Iota_158, Napoleon13_160, Grungle_149, LolaVinca_162, Wally_162
• Track 49 : Ading_164, Jedediah_166, Substance289_161, LifeSavor_161, EmmaElysia_163, JPickles_160, Drazdys_163, Essence_160, Derek_162
• Track 50 : BobaPhatt_158, Fixie_154
• Track 51 : Kboogie_166
• Track 52 : Domi_156
• Track 53 : Spec_159
• Track 54 : Percival_33, Gretchen_33
• Track 55 : Barnstormer_30
• Track 56 : SuMoo_31
• Track 57 : Floof_33
• Track 58 : IAmGroot_32, GardenState_32
• Track 59 : SuperHands_32, Forester_32
• Track 60 : Cen1621_28
• Track 61 : Caron_31
• Track 62 : Mabodamaca_31
• Track 63 : Zeta1847_30
• Track 64 : Honk_29
• Track 65 : UtzChips_30
• Track 66 : Phrampa_151
• Track 67 : Jankie_27
• Track 68 : CallinAllBarbz_27
• Track 69 : Elfy_28
• Track 70 : GrimEater_27
• Track 71 : LisoBros_32
• Track 72 : BaileyBlu_29

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

The start number called the most often in the published annotations is 26, it was called in 71 of the 143 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• AEgle_28, AGrandiflora_29, Adolin_27, Adumb2043_28, AinMach_30, Amploria_28, Amyev_29, Asa16_30, Ascela_29, Ashes_27, BaileyBlu_29, Beaupre_27, Berrie_30, CallinAllBarbz_27, Cappuccino_27, Cassia_29, Community_30, Crewmate_32, Cyan_28, Donkey_27, DrManhattan_27, DrSierra_28, Elezi_30, Eraser_30, Flutur_28, Gambol_27, Giorgio_27, GrimEater_27, Gumpizza_27, Halsey_27, Iter_29, IttyBittyPiggy_29, Janeemi_31, Jankie_27, Joemato_28, JohnDoe_28, Jstan_32, JuneStar_29, Kalimba_27, Kaylissa_28, KeAlii_29, Lego_28, LisoBros_32, Lizalica_28, London_30, MissSwiss_27, Moss_27, Mudpuppy_28, Mysterium_27, Niobe_30, Nitro_29, ObiToo_31, PandaPo_27, Phives_31, Pixelle_29, Powerpuff_28, Pumpkins_29, Reedo_28, RockScotty_27, Sabourin_27, Schaffner_29, Simpson_30, Skelbel_31, Snek_29, Sooty_27, SpecialK_27, Stuu_27, Subaru_30, Tallboi_29, Tbone_28, TforTroy_30, Tian_29, Tuck_32, Turab_28, Tutumahutu_28, Tweety19_29, VResidence_29, Warda_28, Wildwest_29, Yang_29, YesChef_28,

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

Genes that do not have the "Most Annotated" start:
• Ablatia_163, AceofSpades_34, Ading_164, Astraea_158, Barnstormer_30, Basquiat_160, BobaPhatt_158, BoomerJR_129, Bowman_165, Caron_31, Cen1621_28, Chargie21_160, DeluluLabubu_131, Derek_162, Domi_156, Drazdys_163, Elfy_28, EmmaElysia_163, Emotion_34, Essence_160, Exile_28, FiveHead_37, Fixie_154, Floof_33, Forester_32, Forrest_134, FudgeTart_160, GardenState_32, Genie2_129, Gretchen_33, Grungle_149, Halldule_156, Honk_29, IAmGroot_32, IUFootball_29, InterFolia_168, Iota_158, JPickles_160, Jada_130, JasmineDragon_34, Jedediah_166, JohnThicc_34, Kboogie_166, Labradorite_163, LadyAstra_34, Lee7_165, Liebe_29, LifeSavor_161, LolaVinca_162, MaGuCo_27, Mabodamaca_31, Maby2021_162, Maureen_29, Michkear_30, MikeLiesIn_164, MiniMommy_34, Napoleon13_160, OrediggerDelux_165, Origami_34, Percival_33, Phrampa_151, Primadonna_157, Rahel_165, Ronan_158, ShakeItOph_34, Sollertia_128, Soondubu_28, Spec_159, Sprinklers_160, Stanimal_127, SuMoo_31, Substance289_161, Sue2_30, SuperHands_32, ThursdayNight_31, UtzChips_30, VroomVroom_34, Wally_162, YoungMoneyMata_164, Zeta1847_30,

Summary by start number:

Start 16:
• Found in 37 of 161 (23.0%) of genes in pham
• Manual Annotations of this start: 3 of 143
• Called 8.1% of time when present
• Phage (with cluster) where this start called: BobaPhatt_158 (C1), Fixie_154 (C1), Spec_159 (C1),

Start 19:
• Found in 2 of 161 (1.2%) of genes in pham
• Manual Annotations of this start: 1 of 143
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Michkear_30 (AZ), Zeta1847_30 (EH),

Start 20:
• Found in 22 of 161 (13.7%) of genes in pham
• Manual Annotations of this start: 20 of 143
• Called 100.0% of time when present

• Phage (with cluster) where this start called: AceofSpades_34 (AZ4), Emotion_34 (AZ4), FiveHead_37 (AZ4), Floof_33 (EH), Forester_32 (EH), GardenState_32 (EH), Gretchen_33 (EH), IAmGroot_32 (EH), IUFootball_29 (AZ2), JasmineDragon_34 (AZ4), JohnThicc_34 (AZ4), LadyAstra_34 (AZ4), Liebe_29 (AZ2), MaGuCo_27 (AZ2), Maureen_29 (AZ2), MiniMommy_34 (AZ4), Origami_34 (AZ4), Percival_33 (EH), ShakeItOph_34 (AZ4), SuperHands_32 (EH), ThursdayNight_31 (AZ), VroomVroom_34 (AZ4),

Start 21:
• Found in 1 of 161 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 143
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cen1621_28 (EH),

Start 22:
• Found in 6 of 161 (3.7%) of genes in pham
• Manual Annotations of this start: 5 of 143
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Barnstormer_30 (EH), Caron_31 (EH), Elfy_28 (FP), Exile_28 (AZ6), Soondubu_28 (AZ6), UtzChips_30 (EH),

Start 23:
• Found in 1 of 161 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 143
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Honk_29 (EH),

Start 24:
• Found in 2 of 161 (1.2%) of genes in pham
• Manual Annotations of this start: 2 of 143
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mabodamaca_31 (EH), SuMoo_31 (EH),

Start 25:
• Found in 1 of 161 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 143
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sue2_30 (AZ1),

Start 26:
• Found in 81 of 161 (50.3%) of genes in pham
• Manual Annotations of this start: 71 of 143
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AEgle_28 (AZ1), AGrandiflora_29 (AZ1), Adolin_27 (AZ1), Adumb2043_28 (AZ1), AinMach_30 (AZ7), Amploria_28 (AZ1), Amyev_29 (AZ1), Asa16_30 (AZ1), Ascela_29 (AZ1), Ashes_27 (AZ5), BaileyBlu_29 (FP), Beaupre_27 (AZ5), Berrie_30 (AZ1), CallinAllBarbz_27 (FP), Cappuccino_27 (AZ5), Cassia_29 (AZ1), Community_30 (AZ1), Crewmate_32 (AZ1), Cyan_28 (AZ1), Donkey_27 (AZ5), DrManhattan_27 (AZ1), DrSierra_28 (AZ1), Elezi_30 (AZ1), Eraser_30 (AZ1), Flutur_28 (AZ), Gambol_27 (AZ5), Giorgio_27 (AZ5), GrimEater_27 (FP), Gumpizza_27 (AZ5), Halsey_27 (AZ5), Iter_29 (AZ1), IttyBittyPiggy_29 (AZ1), Janeemi_31 (AZ1), Jankie_27 (FP), Joemato_28 (AZ1), JohnDoe_28 (AZ1), Jstan_32 (AZ1), JuneStar_29 (AZ1), Kalimba_27 (AZ5), Kaylissa_28 (AZ1), KeAlii_29 (AZ1),

Lego_28 (AZ1), LisoBros_32 (FP), Lizalica_28 (AZ1), London_30 (AZ1), MissSwiss_27 (AZ1), Moss_27 (AZ5), Mudpuppy_28 (AZ1), Mysterium_27 (AZ5), Niobe_30 (AZ1), Nitro_29 (AZ1), ObiToo_31 (AZ1), PandaPo_27 (AZ1), Phives_31 (AZ1), Pixelle_29 (AZ1), Powerpuff_28 (AZ1), Pumpkins_29 (AZ1), Reedo_28 (AZ1), RockScotty_27 (AZ5), Sabourin_27 (AZ5), Schaffner_29 (AZ1), Simpson_30 (AZ1), Skelbel_31 (AZ1), Snek_29 (AZ3), Sooty_27 (AZ5), SpecialK_27 (AZ5), Stuu_27 (AZ5), Subaru_30 (AZ1), Tallboi_29 (AZ1), Tbone_28 (AZ1), TforTroy_30 (AZ1), Tian_29 (AZ1), Tuck_32 (AZ1), Turab_28 (AZ1), Tutumahutu_28 (AZ1), Tweety19_29 (AZ3), VResidence_29 (AZ1), Warda_28 (AZ1), Wildwest_29 (AZ1), Yang_29 (AZ1), YesChef_28 (AZ1),

Start 27:
• Found in 6 of 161 (3.7%) of genes in pham
• Manual Annotations of this start: 4 of 143
• Called 66.7% of time when present
• Phage (with cluster) where this start called: DeluluLabubu_131 (BK1), Forrest_134 (BK1), Jada_130 (BK1), Phrampa_151 (FC),

Start 28:
• Found in 4 of 161 (2.5%) of genes in pham
• Manual Annotations of this start: 4 of 143
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BoomerJR_129 (BE2), Genie2_129 (BE2), Sollertia_128 (BE2), Stanimal_127 (BE2),

Start 33:
• Found in 41 of 161 (25.5%) of genes in pham
• Manual Annotations of this start: 30 of 143
• Called 82.9% of time when present
• Phage (with cluster) where this start called: Ablatia_163 (C1), Ading_164 (C1), Astraea_158 (C1), Basquiat_160 (C1), Bowman_165 (C1), Chargie21_160 (C1), Derek_162 (C1), Domi_156 (C1), Drazdys_163 (C1), EmmaElysia_163 (C1), Essence_160 (C1), FudgeTart_160 (C1), Grungle_149 (C1), Halldule_156 (C1), InterFolia_168 (C1), Iota_158 (C1), JPickles_160 (C1), Jedediah_166 (C1), Kboogie_166 (C1), Labradorite_163 (C1), Lee7_165 (C1), LifeSavor_161 (C1), LolaVinca_162 (C1), Maby2021_162 (C1), MikeLiesIn_164 (C1), Napoleon13_160 (C1), OrediggerDelux_165 (C1), Primadonna_157 (C1), Rahel_165 (C1), Ronan_158 (C1), Sprinklers_160 (C1), Substance289_161 (C1), Wally_162 (C1), YoungMoneyMata_164 (C1),

Summary by clusters:

There are 14 clusters represented in this pham: FP, AZ, EH, AZ5, FC, BK1, BE2, AZ1, C1, AZ3, AZ4, AZ2, AZ6, AZ7,

Info for manual annotations of cluster AZ:
•Start number 20 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 25 was manually annotated 1 time for cluster AZ1.
•Start number 26 was manually annotated 48 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

•Start number 20 was manually annotated 4 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 26 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 20 was manually annotated 8 times for cluster AZ4.

Info for manual annotations of cluster AZ5:
•Start number 26 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster AZ6:
•Start number 22 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster BE2:
•Start number 28 was manually annotated 4 times for cluster BE2.

Info for manual annotations of cluster BK1:
•Start number 27 was manually annotated 3 times for cluster BK1.

Info for manual annotations of cluster C1:
•Start number 16 was manually annotated 3 times for cluster C1.
•Start number 33 was manually annotated 30 times for cluster C1.

Info for manual annotations of cluster EH:
•Start number 19 was manually annotated 1 time for cluster EH.
•Start number 20 was manually annotated 7 times for cluster EH.
•Start number 21 was manually annotated 1 time for cluster EH.
•Start number 22 was manually annotated 3 times for cluster EH.
•Start number 23 was manually annotated 1 time for cluster EH.
•Start number 24 was manually annotated 2 times for cluster EH.

Info for manual annotations of cluster FC:
•Start number 27 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster FP:
•Start number 22 was manually annotated 1 time for cluster FP.
•Start number 26 was manually annotated 5 times for cluster FP.

Gene Information:

Gene: AEgle_28 Start: 22637, Stop: 23041, Start Num: 26
Candidate Starts for AEgle_28:
(Start: 26 @22637 has 71 MA's), (36, 22742), (37, 22757), (38, 22760), (41, 22781), (49, 22871), (52, 22892), (53, 22925),

Gene: AGrandiflora_29 Start: 22667, Stop: 23071, Start Num: 26
Candidate Starts for AGrandiflora_29:
(Start: 26 @22667 has 71 MA's), (36, 22772), (37, 22787), (41, 22811), (49, 22901), (52, 22922),

Gene: Ablatia_163 Start: 93975, Stop: 94412, Start Num: 33
Candidate Starts for Ablatia_163:
(14, 93828), (Start: 16 @93846 has 3 MA's), (Start: 33 @93975 has 30 MA's), (36, 94026), (40, 94062), (41, 94065), (48, 94131), (49, 94158), (52, 94179), (59, 94251), (63, 94278), (65, 94281), (75, 94332), (76, 94347), (79, 94374), (80, 94392), (81, 94401), (82, 94407),

Gene: AceofSpades_34 Start: 24165, Stop: 24581, Start Num: 20
Candidate Starts for AceofSpades_34:
(Start: 20 @24165 has 20 MA's), (29, 24210), (36, 24291), (41, 24330), (44, 24354), (49, 24420), (52, 24441),

Gene: Ading_164 Start: 93810, Stop: 94247, Start Num: 33
Candidate Starts for Ading_164:
(14, 93663), (Start: 16 @93681 has 3 MA's), (Start: 33 @93810 has 30 MA's), (36, 93861), (40, 93897), (41, 93900), (48, 93966), (49, 93993), (52, 94014), (59, 94086), (63, 94113), (65, 94116), (76, 94182), (79, 94209), (80, 94227), (81, 94236), (82, 94242),

Gene: Adolin_27 Start: 21091, Stop: 21495, Start Num: 26
Candidate Starts for Adolin_27:
(Start: 26 @21091 has 71 MA's), (36, 21196), (41, 21235), (49, 21325), (52, 21346),

Gene: Adumb2043_28 Start: 22636, Stop: 23040, Start Num: 26
Candidate Starts for Adumb2043_28:
(Start: 26 @22636 has 71 MA's), (36, 22741), (37, 22756), (38, 22759), (41, 22780), (49, 22870), (52, 22891), (53, 22924),

Gene: AinMach_30 Start: 23615, Stop: 24013, Start Num: 26
Candidate Starts for AinMach_30:
(Start: 26 @23615 has 71 MA's), (36, 23720), (41, 23759), (43, 23777), (49, 23849), (52, 23870), (55, 23912), (67, 23969),

Gene: Amploria_28 Start: 22636, Stop: 23040, Start Num: 26
Candidate Starts for Amploria_28:
(Start: 26 @22636 has 71 MA's), (36, 22741), (37, 22756), (38, 22759), (41, 22780), (49, 22870), (52, 22891), (53, 22924),

Gene: Amyev_29 Start: 24561, Stop: 24965, Start Num: 26
Candidate Starts for Amyev_29:
(Start: 26 @24561 has 71 MA's), (36, 24666), (38, 24684), (41, 24705), (49, 24795), (52, 24816), (53, 24849),

Gene: Asa16_30 Start: 24809, Stop: 25213, Start Num: 26
Candidate Starts for Asa16_30:
(1, 24143), (2, 24155), (Start: 26 @24809 has 71 MA's), (36, 24914), (38, 24932), (41, 24953), (49, 25043), (52, 25064), (53, 25097),

Gene: Ascela_29 Start: 22804, Stop: 23208, Start Num: 26
Candidate Starts for Ascela_29:
(Start: 26 @22804 has 71 MA's), (36, 22909), (37, 22924), (41, 22948), (49, 23038), (52, 23059),

Gene: Ashes_27 Start: 20985, Stop: 21407, Start Num: 26
Candidate Starts for Ashes_27:

(Start: 26 @20985 has 71 MA's), (36, 21090), (41, 21129), (49, 21219), (52, 21240), (55, 21282), (67, 21348),

Gene: Astraea_158 Start: 92316, Stop: 92753, Start Num: 33
Candidate Starts for Astraea_158:
(14, 92169), (Start: 16 @92187 has 3 MA's), (Start: 33 @92316 has 30 MA's), (36, 92367), (40, 92403), (41, 92406), (48, 92472), (49, 92499), (52, 92520), (59, 92592), (63, 92619), (65, 92622), (75, 92673), (76, 92688), (79, 92715), (80, 92733), (81, 92742), (82, 92748),

Gene: BaileyBlu_29 Start: 22420, Stop: 22836, Start Num: 26
Candidate Starts for BaileyBlu_29:
(Start: 26 @22420 has 71 MA's), (36, 22525), (37, 22540), (41, 22564), (49, 22654), (52, 22675), (70, 22792),

Gene: Barnstormer_30 Start: 22955, Stop: 23335, Start Num: 22
Candidate Starts for Barnstormer_30:
(Start: 22 @22955 has 5 MA's), (36, 23072), (41, 23111), (49, 23201), (50, 23210), (52, 23222), (53, 23255), (67, 23315),

Gene: Basquiat_160 Start: 92530, Stop: 92967, Start Num: 33
Candidate Starts for Basquiat_160:
(14, 92383), (Start: 16 @92401 has 3 MA's), (Start: 33 @92530 has 30 MA's), (36, 92581), (40, 92617), (41, 92620), (48, 92686), (49, 92713), (52, 92734), (59, 92806), (63, 92833), (65, 92836), (75, 92887), (76, 92902), (79, 92929), (80, 92947), (81, 92956), (82, 92962),

Gene: Beaupre_27 Start: 20986, Stop: 21408, Start Num: 26
Candidate Starts for Beaupre_27:
(Start: 26 @20986 has 71 MA's), (36, 21091), (41, 21130), (49, 21220), (52, 21241), (55, 21283), (67, 21349),

Gene: Berrie_30 Start: 23864, Stop: 24268, Start Num: 26
Candidate Starts for Berrie_30:
(Start: 26 @23864 has 71 MA's), (36, 23969), (37, 23984), (41, 24008), (49, 24098), (52, 24119),

Gene: BobaPhatt_158 Start: 91948, Stop: 92514, Start Num: 16
Candidate Starts for BobaPhatt_158:
(14, 91930), (Start: 16 @91948 has 3 MA's), (Start: 33 @92077 has 30 MA's), (36, 92128), (40, 92164), (41, 92167), (48, 92233), (49, 92260), (52, 92281), (59, 92353), (63, 92380), (65, 92383), (75, 92434), (76, 92449), (79, 92476), (80, 92494), (81, 92503), (82, 92509),

Gene: BoomerJR_129 Start: 79918, Stop: 80385, Start Num: 28
Candidate Starts for BoomerJR_129:
(Start: 28 @79918 has 4 MA's), (Start: 33 @79978 has 30 MA's), (36, 80023), (54, 80212), (66, 80278), (72, 80320), (78, 80365),

Gene: Bowman_165 Start: 93924, Stop: 94361, Start Num: 33
Candidate Starts for Bowman_165:
(14, 93777), (Start: 16 @93795 has 3 MA's), (Start: 33 @93924 has 30 MA's), (36, 93975), (40, 94011), (41, 94014), (48, 94080), (49, 94107), (52, 94128), (59, 94200), (63, 94227), (65, 94230), (75, 94281), (76, 94296), (79, 94323), (80, 94341), (81, 94350), (82, 94356),

Gene: CallinAllBarbz_27 Start: 22247, Stop: 22663, Start Num: 26
Candidate Starts for CallinAllBarbz_27:

(Start: 26 @22247 has 71 MA's), (36, 22352), (41, 22391), (49, 22481), (52, 22502), (70, 22619), (77, 22652),

Gene: Cappuccino_27 Start: 20894, Stop: 21316, Start Num: 26
Candidate Starts for Cappuccino_27:
(Start: 26 @20894 has 71 MA's), (36, 20999), (41, 21038), (49, 21128), (52, 21149), (55, 21191), (67, 21257),

Gene: Caron_31 Start: 23006, Stop: 23386, Start Num: 22
Candidate Starts for Caron_31:
(4, 22538), (12, 22922), (15, 22940), (18, 22973), (Start: 22 @23006 has 5 MA's), (36, 23123), (41, 23162), (49, 23252), (50, 23261), (52, 23273), (53, 23306),

Gene: Cassia_29 Start: 23256, Stop: 23660, Start Num: 26
Candidate Starts for Cassia_29:
(5, 22932), (7, 22995), (Start: 26 @23256 has 71 MA's), (36, 23361), (41, 23400), (49, 23490), (52, 23511), (60, 23580),

Gene: Cen1621_28 Start: 21545, Stop: 21955, Start Num: 21
Candidate Starts for Cen1621_28:
(Start: 21 @21545 has 1 MA's), (36, 21668), (38, 21686), (41, 21707), (48, 21770), (49, 21797), (52, 21818), (53, 21851), (55, 21860), (57, 21866), (63, 21896),

Gene: Chargie21_160 Start: 92530, Stop: 92967, Start Num: 33
Candidate Starts for Chargie21_160:
(14, 92383), (Start: 16 @92401 has 3 MA's), (Start: 33 @92530 has 30 MA's), (36, 92581), (40, 92617), (41, 92620), (48, 92686), (49, 92713), (52, 92734), (59, 92806), (63, 92833), (65, 92836), (75, 92887), (76, 92902), (79, 92929), (80, 92947), (81, 92956), (82, 92962),

Gene: Community_30 Start: 24994, Stop: 25398, Start Num: 26
Candidate Starts for Community_30:
(Start: 26 @24994 has 71 MA's), (36, 25099), (37, 25114), (41, 25138), (49, 25228), (52, 25249),

Gene: Crewmate_32 Start: 23514, Stop: 23918, Start Num: 26
Candidate Starts for Crewmate_32:
(Start: 26 @23514 has 71 MA's), (36, 23619), (37, 23634), (41, 23658), (49, 23748), (52, 23769),

Gene: Cyan_28 Start: 22726, Stop: 23130, Start Num: 26
Candidate Starts for Cyan_28:
(Start: 26 @22726 has 71 MA's), (36, 22831), (37, 22846), (41, 22870), (49, 22960), (52, 22981), (53, 23014),

Gene: DeluluLabubu_131 Start: 76975, Stop: 77424, Start Num: 27
Candidate Starts for DeluluLabubu_131:
(Start: 27 @76975 has 4 MA's), (36, 77074), (39, 77101), (46, 77161), (51, 77227), (58, 77299), (66, 77329), (69, 77344), (76, 77392),

Gene: Derek_162 Start: 93624, Stop: 94061, Start Num: 33
Candidate Starts for Derek_162:
(14, 93477), (Start: 16 @93495 has 3 MA's), (Start: 33 @93624 has 30 MA's), (36, 93675), (40, 93711), (41, 93714), (48, 93780), (49, 93807), (52, 93828), (59, 93900), (63, 93927), (65, 93930), (76, 93996), (79, 94023), (80, 94041), (81, 94050), (82, 94056),

Gene: Domi_156 Start: 92867, Stop: 93304, Start Num: 33
Candidate Starts for Domi_156:
(14, 92720), (Start: 16 @92738 has 3 MA's), (Start: 33 @92867 has 30 MA's), (36, 92918), (40, 92954), (41, 92957), (48, 93023), (49, 93050), (52, 93071), (59, 93143), (63, 93170), (65, 93173), (75, 93224), (76, 93239), (79, 93266), (80, 93284), (81, 93293),

Gene: Donkey_27 Start: 20894, Stop: 21316, Start Num: 26
Candidate Starts for Donkey_27:
(Start: 26 @20894 has 71 MA's), (36, 20999), (41, 21038), (49, 21128), (52, 21149), (55, 21191), (67, 21257),

Gene: DrManhattan_27 Start: 21081, Stop: 21485, Start Num: 26
Candidate Starts for DrManhattan_27:
(Start: 26 @21081 has 71 MA's), (36, 21186), (41, 21225), (49, 21315), (52, 21336),

Gene: DrSierra_28 Start: 21759, Stop: 22163, Start Num: 26
Candidate Starts for DrSierra_28:
(Start: 26 @21759 has 71 MA's), (36, 21864), (37, 21879), (41, 21903), (49, 21993), (52, 22014), (68, 22122),

Gene: Drazdys_163 Start: 93294, Stop: 93731, Start Num: 33
Candidate Starts for Drazdys_163:
(14, 93147), (Start: 16 @93165 has 3 MA's), (Start: 33 @93294 has 30 MA's), (36, 93345), (40, 93381), (41, 93384), (48, 93450), (49, 93477), (52, 93498), (59, 93570), (63, 93597), (65, 93600), (76, 93666), (79, 93693), (80, 93711), (81, 93720), (82, 93726),

Gene: Elezi_30 Start: 24824, Stop: 25228, Start Num: 26
Candidate Starts for Elezi_30:
(Start: 26 @24824 has 71 MA's), (36, 24929), (38, 24947), (41, 24968), (49, 25058), (52, 25079), (53, 25112),

Gene: Elfy_28 Start: 22243, Stop: 22644, Start Num: 22
Candidate Starts for Elfy_28:
(Start: 22 @22243 has 5 MA's), (29, 22273), (30, 22276), (36, 22354), (38, 22372), (41, 22393), (50, 22492), (52, 22504), (53, 22537),

Gene: EmmaElysia_163 Start: 93201, Stop: 93638, Start Num: 33
Candidate Starts for EmmaElysia_163:
(14, 93054), (Start: 16 @93072 has 3 MA's), (Start: 33 @93201 has 30 MA's), (36, 93252), (40, 93288), (41, 93291), (48, 93357), (49, 93384), (52, 93405), (59, 93477), (63, 93504), (65, 93507), (76, 93573), (79, 93600), (80, 93618), (81, 93627), (82, 93633),

Gene: Emotion_34 Start: 24684, Stop: 25088, Start Num: 20
Candidate Starts for Emotion_34:
(Start: 20 @24684 has 20 MA's), (36, 24798), (41, 24837), (44, 24861), (49, 24927), (52, 24948), (56, 24993),

Gene: Eraser_30 Start: 24816, Stop: 25220, Start Num: 26
Candidate Starts for Eraser_30:
(1, 24150), (2, 24162), (Start: 26 @24816 has 71 MA's), (36, 24921), (38, 24939), (41, 24960), (49, 25050), (52, 25071), (53, 25104),

Gene: Essence_160 Start: 92853, Stop: 93290, Start Num: 33

Candidate Starts for Essence_160:
(14, 92706), (Start: 16 @92724 has 3 MA's), (Start: 33 @92853 has 30 MA's), (36, 92904), (40, 92940), (41, 92943), (48, 93009), (49, 93036), (52, 93057), (59, 93129), (63, 93156), (65, 93159), (76, 93225), (79, 93252), (80, 93270), (81, 93279), (82, 93285),

Gene: Exile_28 Start: 24957, Stop: 25355, Start Num: 22
Candidate Starts for Exile_28:
(Start: 22 @24957 has 5 MA's), (36, 25062), (41, 25101), (49, 25191), (52, 25212), (55, 25254), (56, 25257),

Gene: FiveHead_37 Start: 24180, Stop: 24578, Start Num: 20
Candidate Starts for FiveHead_37:
(Start: 20 @24180 has 20 MA's), (36, 24288), (41, 24327), (44, 24351), (49, 24417), (52, 24438), (55, 24480),

Gene: Fixie_154 Start: 92772, Stop: 93338, Start Num: 16
Candidate Starts for Fixie_154:
(14, 92754), (Start: 16 @92772 has 3 MA's), (Start: 33 @92901 has 30 MA's), (36, 92952), (40, 92988), (41, 92991), (48, 93057), (49, 93084), (52, 93105), (59, 93177), (63, 93204), (65, 93207), (75, 93258), (76, 93273), (79, 93300), (80, 93318), (81, 93327), (82, 93333),

Gene: Floof_33 Start: 24052, Stop: 24465, Start Num: 20
Candidate Starts for Floof_33:
(10, 23893), (Start: 20 @24052 has 20 MA's), (36, 24172), (37, 24187), (41, 24211), (49, 24301), (52, 24322),

Gene: Flutur_28 Start: 22957, Stop: 23361, Start Num: 26
Candidate Starts for Flutur_28:
(Start: 26 @22957 has 71 MA's), (36, 23062), (37, 23077), (41, 23101), (49, 23191), (52, 23212), (53, 23245),

Gene: Forester_32 Start: 25506, Stop: 25919, Start Num: 20
Candidate Starts for Forester_32:
(Start: 20 @25506 has 20 MA's), (36, 25626), (37, 25641), (41, 25665), (49, 25755), (52, 25776), (68, 25872),

Gene: Forrest_134 Start: 78743, Stop: 79192, Start Num: 27
Candidate Starts for Forrest_134:
(Start: 27 @78743 has 4 MA's), (36, 78842), (39, 78869), (46, 78929), (51, 78995), (58, 79067), (66, 79097), (69, 79112),

Gene: FudgeTart_160 Start: 93059, Stop: 93496, Start Num: 33
Candidate Starts for FudgeTart_160:
(14, 92912), (Start: 16 @92930 has 3 MA's), (Start: 33 @93059 has 30 MA's), (36, 93110), (40, 93146), (41, 93149), (48, 93215), (49, 93242), (52, 93263), (59, 93335), (63, 93362), (65, 93365), (75, 93416), (76, 93431), (79, 93458), (80, 93476), (81, 93485), (82, 93491),

Gene: Gambol_27 Start: 20894, Stop: 21316, Start Num: 26
Candidate Starts for Gambol_27:
(Start: 26 @20894 has 71 MA's), (36, 20999), (41, 21038), (49, 21128), (52, 21149), (55, 21191), (67, 21257),

Gene: GardenState_32 Start: 23620, Stop: 24018, Start Num: 20

Candidate Starts for GardenState_32:
(9, 23452), (11, 23530), (Start: 20 @23620 has 20 MA's), (36, 23740), (39, 23767), (49, 23869), (52, 23890),

Gene: Genie2_129 Start: 80032, Stop: 80499, Start Num: 28
Candidate Starts for Genie2_129:
(Start: 28 @80032 has 4 MA's), (Start: 33 @80092 has 30 MA's), (36, 80137), (54, 80326), (66, 80392), (72, 80434), (78, 80479),

Gene: Giorgio_27 Start: 20993, Stop: 21415, Start Num: 26
Candidate Starts for Giorgio_27:
(Start: 26 @20993 has 71 MA's), (36, 21098), (41, 21137), (49, 21227), (52, 21248), (55, 21290), (67, 21356),

Gene: Gretchen_33 Start: 25200, Stop: 25613, Start Num: 20
Candidate Starts for Gretchen_33:
(Start: 20 @25200 has 20 MA's), (36, 25320), (37, 25335), (41, 25359), (48, 25422), (49, 25449), (52, 25470), (74, 25596),

Gene: GrimEater_27 Start: 22231, Stop: 22641, Start Num: 26
Candidate Starts for GrimEater_27:
(6, 21922), (Start: 26 @22231 has 71 MA's), (36, 22336), (41, 22375), (49, 22465), (52, 22486), (53, 22519), (71, 22606), (77, 22630),

Gene: Grungle_149 Start: 90879, Stop: 91316, Start Num: 33
Candidate Starts for Grungle_149:
(14, 90732), (Start: 16 @90750 has 3 MA's), (Start: 33 @90879 has 30 MA's), (36, 90930), (40, 90966), (41, 90969), (48, 91035), (49, 91062), (52, 91083), (59, 91155), (63, 91182), (65, 91185), (75, 91236), (76, 91251), (79, 91278), (80, 91296), (81, 91305), (82, 91311),

Gene: Gumpizza_27 Start: 20986, Stop: 21408, Start Num: 26
Candidate Starts for Gumpizza_27:
(Start: 26 @20986 has 71 MA's), (36, 21091), (41, 21130), (49, 21220), (52, 21241), (55, 21283), (67, 21349),

Gene: Halldule_156 Start: 91254, Stop: 91691, Start Num: 33
Candidate Starts for Halldule_156:
(14, 91107), (Start: 16 @91125 has 3 MA's), (Start: 33 @91254 has 30 MA's), (36, 91305), (40, 91341), (41, 91344), (48, 91410), (49, 91437), (52, 91458), (59, 91530), (63, 91557), (65, 91560), (75, 91611), (76, 91626), (79, 91653), (80, 91671), (81, 91680), (82, 91686),

Gene: Halsey_27 Start: 20990, Stop: 21412, Start Num: 26
Candidate Starts for Halsey_27:
(Start: 26 @20990 has 71 MA's), (36, 21095), (41, 21134), (49, 21224), (52, 21245), (55, 21287), (67, 21353),

Gene: Honk_29 Start: 21190, Stop: 21627, Start Num: 23
Candidate Starts for Honk_29:
(Start: 23 @21190 has 1 MA's), (36, 21310), (41, 21349), (42, 21361), (47, 21397), (49, 21439), (52, 21460),

Gene: IAmGroot_32 Start: 24284, Stop: 24682, Start Num: 20
Candidate Starts for IAmGroot_32:

(9, 24116), (11, 24194), (Start: 20 @24284 has 20 MA's), (36, 24404), (39, 24431), (49, 24533), (52, 24554),

Gene: IUFootball_29 Start: 23638, Stop: 24033, Start Num: 20
Candidate Starts for IUFootball_29:
(Start: 20 @23638 has 20 MA's), (36, 23743), (41, 23782), (44, 23806), (49, 23872), (52, 23893), (55, 23935), (67, 23989),

Gene: InterFolia_168 Start: 95242, Stop: 95679, Start Num: 33
Candidate Starts for InterFolia_168:
(14, 95095), (Start: 16 @95113 has 3 MA's), (Start: 33 @95242 has 30 MA's), (36, 95293), (40, 95329), (41, 95332), (48, 95398), (49, 95425), (52, 95446), (59, 95518), (63, 95545), (65, 95548), (75, 95599), (76, 95614), (79, 95641), (80, 95659), (81, 95668), (82, 95674),

Gene: Iota_158 Start: 92909, Stop: 93346, Start Num: 33
Candidate Starts for Iota_158:
(14, 92762), (Start: 16 @92780 has 3 MA's), (Start: 33 @92909 has 30 MA's), (36, 92960), (40, 92996), (41, 92999), (48, 93065), (49, 93092), (52, 93113), (59, 93185), (63, 93212), (65, 93215), (75, 93266), (76, 93281), (79, 93308), (80, 93326), (81, 93335), (82, 93341),

Gene: Iter_29 Start: 22804, Stop: 23208, Start Num: 26
Candidate Starts for Iter_29:
(Start: 26 @22804 has 71 MA's), (36, 22909), (37, 22924), (41, 22948), (49, 23038), (52, 23059),

Gene: IttyBittyPiggy_29 Start: 23044, Stop: 23448, Start Num: 26
Candidate Starts for IttyBittyPiggy_29:
(Start: 26 @23044 has 71 MA's), (36, 23149), (41, 23188), (49, 23278), (52, 23299),

Gene: JPickles_160 Start: 91704, Stop: 92141, Start Num: 33
Candidate Starts for JPickles_160:
(14, 91557), (Start: 16 @91575 has 3 MA's), (Start: 33 @91704 has 30 MA's), (36, 91755), (40, 91791), (41, 91794), (48, 91860), (49, 91887), (52, 91908), (59, 91980), (63, 92007), (65, 92010), (76, 92076), (79, 92103), (80, 92121), (81, 92130), (82, 92136),

Gene: Jada_130 Start: 77673, Stop: 78122, Start Num: 27
Candidate Starts for Jada_130:
(Start: 27 @77673 has 4 MA's), (36, 77772), (39, 77799), (46, 77859), (51, 77925), (58, 77997), (66, 78027), (69, 78042),

Gene: Janeemi_31 Start: 25023, Stop: 25427, Start Num: 26
Candidate Starts for Janeemi_31:
(Start: 26 @25023 has 71 MA's), (36, 25128), (37, 25143), (41, 25167), (49, 25257), (52, 25278), (55, 25320),

Gene: Jankie_27 Start: 22232, Stop: 22642, Start Num: 26
Candidate Starts for Jankie_27:
(Start: 26 @22232 has 71 MA's), (36, 22337), (41, 22376), (49, 22466), (52, 22487), (53, 22520), (71, 22607), (77, 22631),

Gene: JasmineDragon_34 Start: 24080, Stop: 24496, Start Num: 20
Candidate Starts for JasmineDragon_34:
(Start: 20 @24080 has 20 MA's), (36, 24206), (41, 24245), (49, 24335), (52, 24356),

Gene: Jedediah_166 Start: 93823, Stop: 94260, Start Num: 33
Candidate Starts for Jedediah_166:
(14, 93676), (Start: 16 @93694 has 3 MA's), (Start: 33 @93823 has 30 MA's), (36, 93874), (40, 93910), (41, 93913), (48, 93979), (49, 94006), (52, 94027), (59, 94099), (63, 94126), (65, 94129), (76, 94195), (79, 94222), (80, 94240), (81, 94249), (82, 94255),

Gene: Joemato_28 Start: 22726, Stop: 23130, Start Num: 26
Candidate Starts for Joemato_28:
(Start: 26 @22726 has 71 MA's), (36, 22831), (37, 22846), (41, 22870), (49, 22960), (52, 22981), (53, 23014),

Gene: JohnDoe_28 Start: 22721, Stop: 23125, Start Num: 26
Candidate Starts for JohnDoe_28:
(Start: 26 @22721 has 71 MA's), (36, 22826), (37, 22841), (41, 22865), (49, 22955), (52, 22976), (53, 23009),

Gene: JohnThicc_34 Start: 24180, Stop: 24578, Start Num: 20
Candidate Starts for JohnThicc_34:
(Start: 20 @24180 has 20 MA's), (36, 24288), (41, 24327), (44, 24351), (49, 24417), (52, 24438), (55, 24480),

Gene: Jstan_32 Start: 24810, Stop: 25214, Start Num: 26
Candidate Starts for Jstan_32:
(1, 24144), (2, 24156), (Start: 26 @24810 has 71 MA's), (36, 24915), (38, 24933), (41, 24954), (49, 25044), (52, 25065), (53, 25098),

Gene: JuneStar_29 Start: 24954, Stop: 25358, Start Num: 26
Candidate Starts for JuneStar_29:
(Start: 26 @24954 has 71 MA's), (36, 25059), (41, 25098), (49, 25188), (52, 25209),

Gene: Kalimba_27 Start: 20894, Stop: 21316, Start Num: 26
Candidate Starts for Kalimba_27:
(Start: 26 @20894 has 71 MA's), (36, 20999), (41, 21038), (49, 21128), (52, 21149), (55, 21191), (67, 21257),

Gene: Kaylissa_28 Start: 22716, Stop: 23120, Start Num: 26
Candidate Starts for Kaylissa_28:
(Start: 26 @22716 has 71 MA's), (36, 22821), (37, 22836), (41, 22860), (49, 22950), (52, 22971), (53, 23004),

Gene: Kboogie_166 Start: 92912, Stop: 93349, Start Num: 33
Candidate Starts for Kboogie_166:
(14, 92765), (Start: 16 @92783 has 3 MA's), (Start: 33 @92912 has 30 MA's), (36, 92963), (40, 92999), (41, 93002), (48, 93068), (49, 93095), (51, 93113), (52, 93116), (59, 93188), (63, 93215), (65, 93218), (75, 93269), (76, 93284), (79, 93311), (80, 93329), (81, 93338), (82, 93344),

Gene: KeAlii_29 Start: 22886, Stop: 23290, Start Num: 26
Candidate Starts for KeAlii_29:
(Start: 26 @22886 has 71 MA's), (36, 22991), (41, 23030), (49, 23120), (52, 23141), (61, 23213),

Gene: Labradorite_163 Start: 91914, Stop: 92351, Start Num: 33
Candidate Starts for Labradorite_163:

(14, 91767), (Start: 16 @91785 has 3 MA's), (Start: 33 @91914 has 30 MA's), (36, 91965), (40, 92001), (41, 92004), (48, 92070), (49, 92097), (52, 92118), (59, 92190), (63, 92217), (65, 92220), (75, 92271), (76, 92286), (79, 92313), (80, 92331), (81, 92340), (82, 92346),

Gene: LadyAstra_34 Start: 24120, Stop: 24518, Start Num: 20
Candidate Starts for LadyAstra_34:
(Start: 20 @24120 has 20 MA's), (36, 24228), (41, 24267), (44, 24291), (49, 24357), (52, 24378), (55, 24420), (67, 24474),

Gene: Lee7_165 Start: 94552, Stop: 94989, Start Num: 33
Candidate Starts for Lee7_165:
(14, 94405), (Start: 16 @94423 has 3 MA's), (Start: 33 @94552 has 30 MA's), (36, 94603), (40, 94639), (41, 94642), (48, 94708), (49, 94735), (52, 94756), (59, 94828), (63, 94855), (65, 94858), (75, 94909), (76, 94924), (79, 94951), (80, 94969), (81, 94978), (82, 94984),

Gene: Lego_28 Start: 22670, Stop: 23074, Start Num: 26
Candidate Starts for Lego_28:
(Start: 26 @22670 has 71 MA's), (36, 22775), (37, 22790), (41, 22814), (49, 22904), (52, 22925),

Gene: Liebe_29 Start: 23638, Stop: 24033, Start Num: 20
Candidate Starts for Liebe_29:
(Start: 20 @23638 has 20 MA's), (36, 23743), (41, 23782), (44, 23806), (49, 23872), (52, 23893), (55, 23935), (67, 23989),

Gene: LifeSavor_161 Start: 93109, Stop: 93546, Start Num: 33
Candidate Starts for LifeSavor_161:
(14, 92962), (Start: 16 @92980 has 3 MA's), (Start: 33 @93109 has 30 MA's), (36, 93160), (40, 93196), (41, 93199), (48, 93265), (49, 93292), (52, 93313), (59, 93385), (63, 93412), (65, 93415), (76, 93481), (79, 93508), (80, 93526), (81, 93535), (82, 93541),

Gene: LisoBros_32 Start: 25147, Stop: 25545, Start Num: 26
Candidate Starts for LisoBros_32:
(Start: 26 @25147 has 71 MA's), (36, 25252), (41, 25291), (48, 25354), (49, 25381), (52, 25402), (73, 25531),

Gene: Lizalica_28 Start: 22719, Stop: 23123, Start Num: 26
Candidate Starts for Lizalica_28:
(Start: 26 @22719 has 71 MA's), (36, 22824), (37, 22839), (38, 22842), (41, 22863), (49, 22953), (52, 22974),

Gene: LolaVinca_162 Start: 94505, Stop: 94942, Start Num: 33
Candidate Starts for LolaVinca_162:
(14, 94358), (Start: 16 @94376 has 3 MA's), (Start: 33 @94505 has 30 MA's), (36, 94556), (40, 94592), (41, 94595), (48, 94661), (49, 94688), (52, 94709), (59, 94781), (63, 94808), (65, 94811), (75, 94862), (76, 94877), (79, 94904), (80, 94922), (81, 94931), (82, 94937),

Gene: London_30 Start: 24824, Stop: 25228, Start Num: 26
Candidate Starts for London_30:
(Start: 26 @24824 has 71 MA's), (36, 24929), (38, 24947), (41, 24968), (49, 25058), (52, 25079), (53, 25112),

Gene: MaGuCo_27 Start: 22439, Stop: 22834, Start Num: 20
Candidate Starts for MaGuCo_27:

(Start: 20 @22439 has 20 MA's), (30, 22466), (36, 22544), (41, 22583), (44, 22607), (49, 22673), (52, 22694), (55, 22736), (67, 22790),

Gene: Mabodamaca_31 Start: 23721, Stop: 24092, Start Num: 24
Candidate Starts for Mabodamaca_31:
(13, 23643), (18, 23682), (Start: 24 @23721 has 2 MA's), (Start: 27 @23730 has 4 MA's), (36, 23832), (41, 23871), (49, 23961), (52, 23982),

Gene: Maby2021_162 Start: 94012, Stop: 94449, Start Num: 33
Candidate Starts for Maby2021_162:
(14, 93865), (Start: 16 @93883 has 3 MA's), (Start: 33 @94012 has 30 MA's), (36, 94063), (40, 94099), (41, 94102), (48, 94168), (49, 94195), (52, 94216), (59, 94288), (63, 94315), (65, 94318), (75, 94369), (76, 94384), (79, 94411), (80, 94429), (81, 94438), (82, 94444),

Gene: Maureen_29 Start: 23638, Stop: 24033, Start Num: 20
Candidate Starts for Maureen_29:
(Start: 20 @23638 has 20 MA's), (36, 23743), (41, 23782), (44, 23806), (49, 23872), (52, 23893), (55, 23935), (67, 23989),

Gene: Michkear_30 Start: 23928, Stop: 24335, Start Num: 19
Candidate Starts for Michkear_30:
(Start: 19 @23928 has 1 MA's), (36, 24045), (41, 24084), (49, 24174), (52, 24195),

Gene: MikeLiesIn_164 Start: 94208, Stop: 94645, Start Num: 33
Candidate Starts for MikeLiesIn_164:
(14, 94061), (Start: 16 @94079 has 3 MA's), (Start: 33 @94208 has 30 MA's), (36, 94259), (40, 94295), (41, 94298), (48, 94364), (49, 94391), (52, 94412), (59, 94484), (63, 94511), (65, 94514), (75, 94565), (76, 94580), (79, 94607), (80, 94625), (81, 94634), (82, 94640),

Gene: MiniMommy_34 Start: 24081, Stop: 24497, Start Num: 20
Candidate Starts for MiniMommy_34:
(Start: 20 @24081 has 20 MA's), (36, 24207), (41, 24246), (49, 24336), (52, 24357),

Gene: MissSwiss_27 Start: 21144, Stop: 21548, Start Num: 26
Candidate Starts for MissSwiss_27:
(Start: 26 @21144 has 71 MA's), (36, 21249), (41, 21288), (49, 21378), (52, 21399),

Gene: Moss_27 Start: 20986, Stop: 21408, Start Num: 26
Candidate Starts for Moss_27:
(Start: 26 @20986 has 71 MA's), (36, 21091), (41, 21130), (49, 21220), (52, 21241), (55, 21283), (67, 21349),

Gene: Mudpuppy_28 Start: 22721, Stop: 23125, Start Num: 26
Candidate Starts for Mudpuppy_28:
(Start: 26 @22721 has 71 MA's), (36, 22826), (37, 22841), (41, 22865), (49, 22955), (52, 22976), (53, 23009),

Gene: Mysterium_27 Start: 20986, Stop: 21408, Start Num: 26
Candidate Starts for Mysterium_27:
(Start: 26 @20986 has 71 MA's), (36, 21091), (41, 21130), (49, 21220), (52, 21241), (55, 21283), (67, 21349),

Gene: Napoleon13_160 Start: 92167, Stop: 92604, Start Num: 33

Candidate Starts for Napoleon13_160:
(14, 92020), (Start: 16 @92038 has 3 MA's), (Start: 33 @92167 has 30 MA's), (36, 92218), (40, 92254), (41, 92257), (48, 92323), (49, 92350), (52, 92371), (59, 92443), (63, 92470), (65, 92473), (75, 92524), (76, 92539), (79, 92566), (80, 92584), (81, 92593), (82, 92599),

Gene: Niobe_30 Start: 24810, Stop: 25214, Start Num: 26
Candidate Starts for Niobe_30:
(1, 24144), (2, 24156), (Start: 26 @24810 has 71 MA's), (36, 24915), (38, 24933), (41, 24954), (49, 25044), (52, 25065), (53, 25098),

Gene: Nitro_29 Start: 24134, Stop: 24538, Start Num: 26
Candidate Starts for Nitro_29:
(Start: 26 @24134 has 71 MA's), (36, 24239), (41, 24278), (49, 24368), (52, 24389), (53, 24422),

Gene: ObiToo_31 Start: 23254, Stop: 23658, Start Num: 26
Candidate Starts for ObiToo_31:
(5, 22930), (7, 22993), (Start: 26 @23254 has 71 MA's), (36, 23359), (37, 23374), (41, 23398), (49, 23488), (52, 23509),

Gene: OrediggerDelux_165 Start: 94549, Stop: 94986, Start Num: 33
Candidate Starts for OrediggerDelux_165:
(14, 94402), (Start: 16 @94420 has 3 MA's), (Start: 33 @94549 has 30 MA's), (36, 94600), (40, 94636), (41, 94639), (48, 94705), (49, 94732), (52, 94753), (59, 94825), (63, 94852), (65, 94855), (75, 94906), (76, 94921), (79, 94948), (80, 94966), (81, 94975), (82, 94981),

Gene: Origami_34 Start: 24120, Stop: 24518, Start Num: 20
Candidate Starts for Origami_34:
(Start: 20 @24120 has 20 MA's), (36, 24228), (41, 24267), (44, 24291), (49, 24357), (52, 24378), (55, 24420), (67, 24474),

Gene: PandaPo_27 Start: 21144, Stop: 21548, Start Num: 26
Candidate Starts for PandaPo_27:
(Start: 26 @21144 has 71 MA's), (36, 21249), (41, 21288), (49, 21378), (52, 21399),

Gene: Percival_33 Start: 25031, Stop: 25444, Start Num: 20
Candidate Starts for Percival_33:
(Start: 20 @25031 has 20 MA's), (36, 25151), (37, 25166), (41, 25190), (48, 25253), (49, 25280), (52, 25301), (74, 25427),

Gene: Phives_31 Start: 24831, Stop: 25235, Start Num: 26
Candidate Starts for Phives_31:
(Start: 26 @24831 has 71 MA's), (36, 24936), (37, 24951), (41, 24975), (49, 25065), (52, 25086),

Gene: Phrampa_151 Start: 107783, Stop: 108262, Start Num: 27
Candidate Starts for Phrampa_151:
(Start: 27 @107783 has 4 MA's), (31, 107822), (34, 107864), (35, 107879), (36, 107885), (50, 108032), (62, 108140), (64, 108152), (66, 108161), (72, 108203),

Gene: Pixelle_29 Start: 24581, Stop: 24985, Start Num: 26
Candidate Starts for Pixelle_29:
(3, 24038), (5, 24257), (Start: 26 @24581 has 71 MA's), (36, 24686), (38, 24704), (41, 24725), (49, 24815), (52, 24836), (53, 24869),

Gene: Powerpuff_28 Start: 22721, Stop: 23125, Start Num: 26
Candidate Starts for Powerpuff_28:
(Start: 26 @22721 has 71 MA's), (36, 22826), (37, 22841), (41, 22865), (49, 22955), (52, 22976), (53, 23009),

Gene: Primadonna_157 Start: 92577, Stop: 93014, Start Num: 33
Candidate Starts for Primadonna_157:
(14, 92430), (Start: 16 @92448 has 3 MA's), (Start: 33 @92577 has 30 MA's), (36, 92628), (40, 92664), (41, 92667), (48, 92733), (49, 92760), (52, 92781), (59, 92853), (63, 92880), (65, 92883), (75, 92934), (76, 92949), (79, 92976), (80, 92994), (81, 93003), (82, 93009),

Gene: Pumpkins_29 Start: 23676, Stop: 24080, Start Num: 26
Candidate Starts for Pumpkins_29:
(5, 23352), (Start: 26 @23676 has 71 MA's), (36, 23781), (38, 23799), (41, 23820), (49, 23910), (52, 23931),

Gene: Rahel_165 Start: 93494, Stop: 93931, Start Num: 33
Candidate Starts for Rahel_165:
(14, 93347), (Start: 16 @93365 has 3 MA's), (Start: 33 @93494 has 30 MA's), (36, 93545), (40, 93581), (41, 93584), (48, 93650), (49, 93677), (52, 93698), (59, 93770), (63, 93797), (65, 93800), (75, 93851), (76, 93866), (79, 93893), (80, 93911), (81, 93920), (82, 93926),

Gene: Reedo_28 Start: 21307, Stop: 21711, Start Num: 26
Candidate Starts for Reedo_28:
(Start: 26 @21307 has 71 MA's), (36, 21412), (41, 21451), (49, 21541), (52, 21562),

Gene: RockScotty_27 Start: 20962, Stop: 21384, Start Num: 26
Candidate Starts for RockScotty_27:
(Start: 26 @20962 has 71 MA's), (36, 21067), (41, 21106), (49, 21196), (52, 21217), (55, 21259), (67, 21325),

Gene: Ronan_158 Start: 91264, Stop: 91701, Start Num: 33
Candidate Starts for Ronan_158:
(14, 91117), (Start: 16 @91135 has 3 MA's), (Start: 33 @91264 has 30 MA's), (36, 91315), (40, 91351), (41, 91354), (48, 91420), (49, 91447), (52, 91468), (59, 91540), (63, 91567), (65, 91570), (75, 91621), (76, 91636), (79, 91663), (80, 91681), (81, 91690), (82, 91696),

Gene: Sabourin_27 Start: 20893, Stop: 21315, Start Num: 26
Candidate Starts for Sabourin_27:
(Start: 26 @20893 has 71 MA's), (36, 20998), (41, 21037), (49, 21127), (52, 21148), (55, 21190), (67, 21256),

Gene: Schaffner_29 Start: 23901, Stop: 24305, Start Num: 26
Candidate Starts for Schaffner_29:
(Start: 26 @23901 has 71 MA's), (36, 24006), (41, 24045), (49, 24135), (52, 24156),

Gene: ShakeItOph_34 Start: 24080, Stop: 24496, Start Num: 20
Candidate Starts for ShakeItOph_34:
(Start: 20 @24080 has 20 MA's), (36, 24206), (41, 24245), (49, 24335), (52, 24356),

Gene: Simpson_30 Start: 22726, Stop: 23130, Start Num: 26
Candidate Starts for Simpson_30:

(Start: 26 @22726 has 71 MA's), (36, 22831), (37, 22846), (41, 22870), (49, 22960), (52, 22981), (53, 23014),

Gene: Skelbel_31 Start: 24810, Stop: 25214, Start Num: 26
Candidate Starts for Skelbel_31:
(1, 24144), (2, 24156), (Start: 26 @24810 has 71 MA's), (36, 24915), (38, 24933), (41, 24954), (49, 25044), (52, 25065), (53, 25098),

Gene: Snek_29 Start: 21883, Stop: 22287, Start Num: 26
Candidate Starts for Snek_29:
(Start: 26 @21883 has 71 MA's), (36, 21988), (41, 22027), (49, 22117), (52, 22138),

Gene: Sollertia_128 Start: 80032, Stop: 80499, Start Num: 28
Candidate Starts for Sollertia_128:
(Start: 28 @80032 has 4 MA's), (Start: 33 @80092 has 30 MA's), (36, 80137), (54, 80326), (66, 80392), (72, 80434), (78, 80479),

Gene: Soondubu_28 Start: 24961, Stop: 25359, Start Num: 22
Candidate Starts for Soondubu_28:
(Start: 22 @24961 has 5 MA's), (36, 25066), (41, 25105), (49, 25195), (52, 25216), (55, 25258), (56, 25261),

Gene: Sooty_27 Start: 20896, Stop: 21318, Start Num: 26
Candidate Starts for Sooty_27:
(Start: 26 @20896 has 71 MA's), (36, 21001), (41, 21040), (49, 21130), (52, 21151), (55, 21193), (67, 21259),

Gene: Spec_159 Start: 92926, Stop: 93492, Start Num: 16
Candidate Starts for Spec_159:
(14, 92908), (Start: 16 @92926 has 3 MA's), (Start: 33 @93055 has 30 MA's), (36, 93106), (40, 93142), (41, 93145), (48, 93211), (49, 93238), (52, 93259), (59, 93331), (63, 93358), (65, 93361), (76, 93427), (79, 93454), (80, 93472), (81, 93481), (82, 93487),

Gene: SpecialK_27 Start: 20893, Stop: 21315, Start Num: 26
Candidate Starts for SpecialK_27:
(Start: 26 @20893 has 71 MA's), (36, 20998), (41, 21037), (49, 21127), (52, 21148), (67, 21256),

Gene: Sprinklers_160 Start: 92508, Stop: 92945, Start Num: 33
Candidate Starts for Sprinklers_160:
(14, 92361), (Start: 16 @92379 has 3 MA's), (Start: 33 @92508 has 30 MA's), (36, 92559), (40, 92595), (41, 92598), (48, 92664), (49, 92691), (52, 92712), (59, 92784), (63, 92811), (65, 92814), (75, 92865), (76, 92880), (79, 92907), (80, 92925), (81, 92934), (82, 92940),

Gene: Stanimal_127 Start: 79921, Stop: 80388, Start Num: 28
Candidate Starts for Stanimal_127:
(Start: 28 @79921 has 4 MA's), (Start: 33 @79981 has 30 MA's), (36, 80026), (54, 80215), (66, 80281), (72, 80323), (78, 80368),

Gene: Stuu_27 Start: 20985, Stop: 21407, Start Num: 26
Candidate Starts for Stuu_27:
(Start: 26 @20985 has 71 MA's), (36, 21090), (41, 21129), (49, 21219), (52, 21240), (55, 21282), (67, 21348),

Gene: SuMoo_31 Start: 22679, Stop: 23050, Start Num: 24
Candidate Starts for SuMoo_31:
(13, 22601), (18, 22640), (Start: 24 @22679 has 2 MA's), (Start: 27 @22688 has 4 MA's), (32, 22730), (36, 22790), (41, 22829), (49, 22919), (52, 22940),

Gene: Subaru_30 Start: 24824, Stop: 25228, Start Num: 26
Candidate Starts for Subaru_30:
(Start: 26 @24824 has 71 MA's), (36, 24929), (38, 24947), (41, 24968), (49, 25058), (52, 25079), (53, 25112),

Gene: Substance289_161 Start: 92808, Stop: 93245, Start Num: 33
Candidate Starts for Substance289_161:
(14, 92661), (Start: 16 @92679 has 3 MA's), (Start: 33 @92808 has 30 MA's), (36, 92859), (40, 92895), (41, 92898), (48, 92964), (49, 92991), (52, 93012), (59, 93084), (63, 93111), (65, 93114), (76, 93180), (79, 93207), (80, 93225), (81, 93234), (82, 93240),

Gene: Sue2_30 Start: 23607, Stop: 24014, Start Num: 25
Candidate Starts for Sue2_30:
(17, 23565), (Start: 25 @23607 has 1 MA's), (36, 23715), (41, 23754), (49, 23844), (52, 23865), (53, 23898),

Gene: SuperHands_32 Start: 25529, Stop: 25942, Start Num: 20
Candidate Starts for SuperHands_32:
(Start: 20 @25529 has 20 MA's), (36, 25649), (37, 25664), (41, 25688), (49, 25778), (52, 25799), (68, 25895),

Gene: Tallboi_29 Start: 24159, Stop: 24563, Start Num: 26
Candidate Starts for Tallboi_29:
(Start: 26 @24159 has 71 MA's), (36, 24264), (37, 24279), (41, 24303), (49, 24393), (52, 24414), (53, 24447),

Gene: Tbone_28 Start: 22745, Stop: 23149, Start Num: 26
Candidate Starts for Tbone_28:
(Start: 26 @22745 has 71 MA's), (36, 22850), (37, 22865), (41, 22889), (49, 22979), (52, 23000), (53, 23033),

Gene: TforTroy_30 Start: 23550, Stop: 23954, Start Num: 26
Candidate Starts for TforTroy_30:
(5, 23226), (Start: 26 @23550 has 71 MA's), (36, 23655), (41, 23694), (49, 23784), (52, 23805),

Gene: ThursdayNight_31 Start: 23341, Stop: 23736, Start Num: 20
Candidate Starts for ThursdayNight_31:
(Start: 20 @23341 has 20 MA's), (36, 23446), (41, 23485), (44, 23509), (49, 23575), (52, 23596), (58, 23659), (67, 23692),

Gene: Tian_29 Start: 24561, Stop: 24965, Start Num: 26
Candidate Starts for Tian_29:
(Start: 26 @24561 has 71 MA's), (36, 24666), (38, 24684), (41, 24705), (49, 24795), (52, 24816), (53, 24849),

Gene: Tuck_32 Start: 25375, Stop: 25779, Start Num: 26
Candidate Starts for Tuck_32:
(Start: 26 @25375 has 71 MA's), (36, 25480), (37, 25495), (41, 25519), (49, 25609), (52, 25630),

Gene: Turab_28 Start: 22636, Stop: 23040, Start Num: 26
Candidate Starts for Turab_28:
(Start: 26 @22636 has 71 MA's), (36, 22741), (37, 22756), (38, 22759), (41, 22780), (49, 22870), (52, 22891), (53, 22924),

Gene: Tutumahutu_28 Start: 22720, Stop: 23124, Start Num: 26
Candidate Starts for Tutumahutu_28:
(Start: 26 @22720 has 71 MA's), (36, 22825), (37, 22840), (41, 22864), (49, 22954), (52, 22975), (53, 23008),

Gene: Tweety19_29 Start: 21882, Stop: 22286, Start Num: 26
Candidate Starts for Tweety19_29:
(Start: 26 @21882 has 71 MA's), (36, 21987), (41, 22026), (49, 22116), (52, 22137),

Gene: UtzChips_30 Start: 22940, Stop: 23320, Start Num: 22
Candidate Starts for UtzChips_30:
(Start: 22 @22940 has 5 MA's), (36, 23057), (41, 23096), (49, 23186), (50, 23195), (52, 23207), (53, 23240), (67, 23300),

Gene: VResidence_29 Start: 22877, Stop: 23281, Start Num: 26
Candidate Starts for VResidence_29:
(Start: 26 @22877 has 71 MA's), (36, 22982), (41, 23021), (49, 23111), (52, 23132),

Gene: VroomVroom_34 Start: 24175, Stop: 24591, Start Num: 20
Candidate Starts for VroomVroom_34:
(Start: 20 @24175 has 20 MA's), (29, 24220), (36, 24301), (41, 24340), (44, 24364), (49, 24430), (52, 24451),

Gene: Wally_162 Start: 92420, Stop: 92857, Start Num: 33
Candidate Starts for Wally_162:
(14, 92273), (Start: 16 @92291 has 3 MA's), (Start: 33 @92420 has 30 MA's), (36, 92471), (40, 92507), (41, 92510), (48, 92576), (49, 92603), (52, 92624), (59, 92696), (63, 92723), (65, 92726), (75, 92777), (76, 92792), (79, 92819), (80, 92837), (81, 92846), (82, 92852),

Gene: Warda_28 Start: 22720, Stop: 23124, Start Num: 26
Candidate Starts for Warda_28:
(Start: 26 @22720 has 71 MA's), (36, 22825), (37, 22840), (41, 22864), (49, 22954), (52, 22975),

Gene: Wildwest_29 Start: 22700, Stop: 23104, Start Num: 26
Candidate Starts for Wildwest_29:
(Start: 26 @22700 has 71 MA's), (36, 22805), (37, 22820), (41, 22844), (49, 22934), (52, 22955), (53, 22988),

Gene: Yang_29 Start: 23063, Stop: 23467, Start Num: 26
Candidate Starts for Yang_29:
(Start: 26 @23063 has 71 MA's), (36, 23168), (37, 23183), (38, 23186), (41, 23207), (49, 23297), (52, 23318), (53, 23351), (60, 23387),

Gene: YesChef_28 Start: 22721, Stop: 23125, Start Num: 26
Candidate Starts for YesChef_28:
(Start: 26 @22721 has 71 MA's), (36, 22826), (37, 22841), (41, 22865), (49, 22955), (52, 22976), (53, 23009),

Gene: YoungMoneyMata_164 Start: 93565, Stop: 94002, Start Num: 33
Candidate Starts for YoungMoneyMata_164:
(14, 93418), (Start: 16 @93436 has 3 MA's), (Start: 33 @93565 has 30 MA's), (36, 93616), (40, 93652), (41, 93655), (48, 93721), (49, 93748), (52, 93769), (59, 93841), (63, 93868), (65, 93871), (75, 93922), (76, 93937), (79, 93964), (80, 93982), (81, 93991), (82, 93997),

Gene: Zeta1847_30 Start: 22974, Stop: 23414, Start Num: 19
Candidate Starts for Zeta1847_30:
(8, 22761), (Start: 19 @22974 has 1 MA's), (30, 23025), (36, 23103), (41, 23142), (45, 23181), (49, 23232), (52, 23253), (53, 23286),