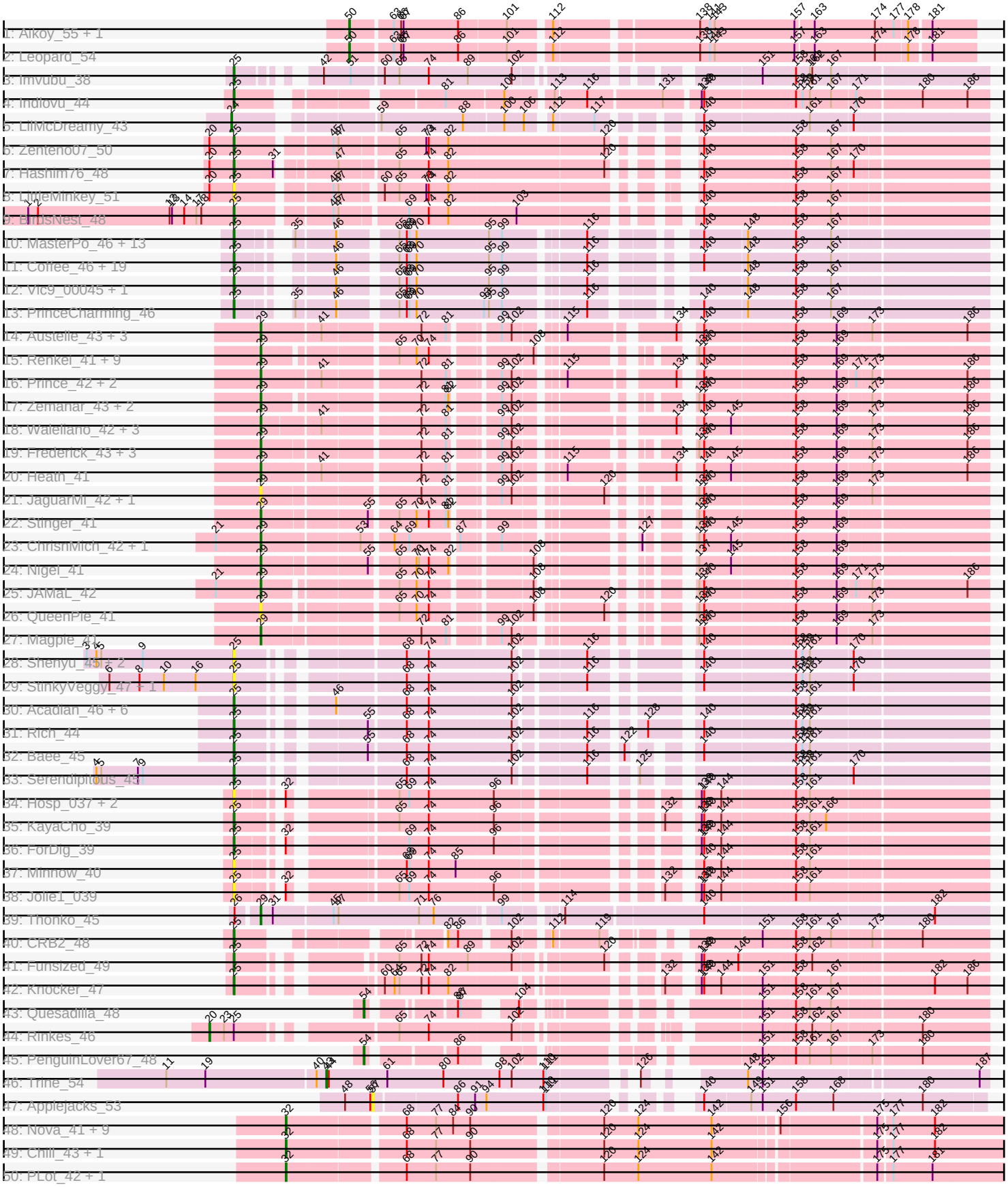
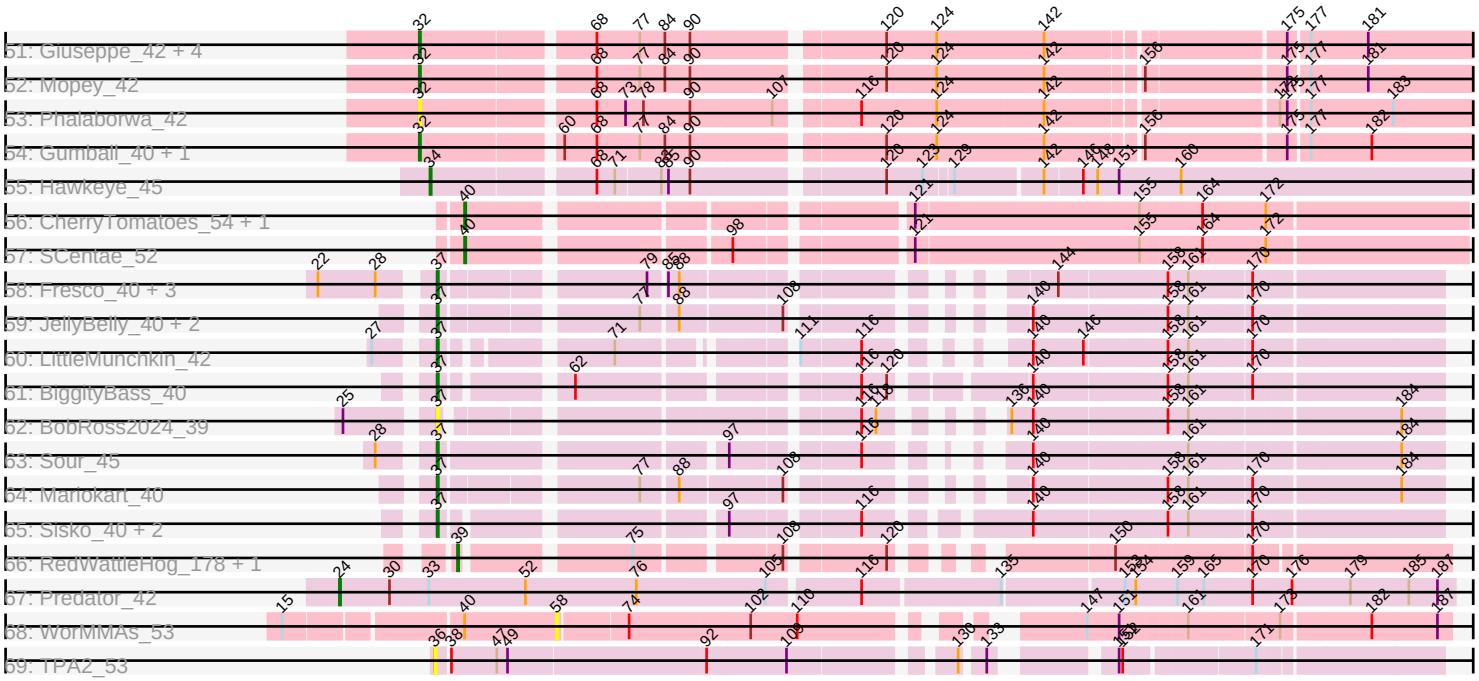
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1: Alkoy_55 + 1
2: Leopard_54
3: Imvubu_38
4: Indlovu_44
5: LilMcDreamy_43
6: Zenteno07_50
7: Hashim76_48
8: LilleMinkey_51
9: BirbsNest_48
10: MasterPo_46 + 13
11: Coffee_46 + 19
12: Vic9_00045 + 1
13: PrinceCharming_46
14: Austelle_43 + 3
15: Renkel_41 + 9
16: Prince_42 + 2
17: Zemanar_43 + 2
18: Walellano_42 + 3
19: Frederick_43 + 3
20: Heath_41
21: JaguarMI_42 + 1
22: Stinger_41
23: ChrisMich_42 + 1
24: Nigel_41
25: JAMal_42
26: QueenPie_41
27: Magpie_41
28: Shenyu_45 + 2
29: StinkyVeggy_47 + 1
30: Acadian_46 + 6
31: Rich_44
32: Baee_45
33: Serendipitous_45
34: Hosp_037 + 2
35: KayaCho_39
36: ForDig_39
37: Minnow_40
38: Jolie1_039
39: Thonko_45
40: CRB2_48
41: Funsized_49
42: Knocker_47
43: Quesadilla_48
44: Rinkes_46
45: PenguinLover67_48
46: Trine_54
47: Applejacks_53
48: Nova_41 + 9
49: Chili_43 + 1
50: PLot_42 + 1

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51: Giuseppe_42 + 4
52: Mopey_42
53: Phalaborwa_42
54: Gumball_40 + 1
55: Hawkeye_45
56: CherryTomatoes_54 + 1
57: SCentae_52
58: Fresco_40 + 3
59: JellyBelly_40 + 2
60: LittleMunchkin_42
61: BiggityBass_40
62: BobRoss2024_39
63: Sour_45
64: Manokan_40
65: Sisko_40 + 2
66: RedWattleHog_178 + 1
67: Predator_42
68: WonMMAS_53
69: TPA2_53

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 347327 Report

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

Pham number 347327 has 163 members, 32 are drafts.

Phages represented in each track:
• Track 1 : Aikoy_55, Onyinye_55
• Track 2 : Leopard_54
• Track 3 : Imvubu_38
• Track 4 : Indlovu_44
• Track 5 : LilMcDreamy_43
• Track 6 : Zenteno07_50
• Track 7 : Hashim76_48
• Track 8 : LittleMinkey_51
• Track 9 : BirdsNest_48
• Track 10 : MasterPo_46, Calamitous_46, Lars_46, Allegro_46, Faze9_45, Kaleb_46, TA17A_47, Kheth_46, Blocker23_46, Holeinone_46, Phantasmagoria_46, Godines_46, Arbiter_45, Rhinoforte_46
• Track 11 : Coffee_46, Lephleur_46, ItsyBitsy1_46, FrenchFry_46, Tinciduntsolum_47, Bananafish_46, Hedgerow_46, West99_46, Tres_46, Brownie5_46, LizLemon_46, Kolhan_46, Sabella_45, Ares_46, LilSmirk_46, Boyle_46, Eaglehorse_46, Rosebush_45, Opia_46, Glass_46
• Track 12 : Vic9_00045, Laurie_45
• Track 13 : PrinceCharming_46
• Track 14 : Austelle_43, Mudslide_42, Fortunato_43, RawrgerThat_43
• Track 15 : Renkei_41, GinPorsche_42, Ahwei_41, Poster_41, Hally898_41, Antihero_41, Lambano_41, LittleDigger_41, Nanao_41, Epah_41
• Track 16 : Prince_42, Apex_43, VioletZ_44
• Track 17 : Zemanar_43, Lolalove_43, JoyceMaria_42
• Track 18 : Waleliano_42, BrownCNA_44, Hangman_42, Hydro_42
• Track 19 : Frederick_43, Mithril_42, Fanaw_41, BobbyK_43
• Track 20 : Heath_41
• Track 21 : JaguarMi_42, Xincheng_41
• Track 22 : Stinger_41
• Track 23 : ChrisnMich_42, Cooper_43
• Track 24 : Nigel_41
• Track 25 : JAMaL_42
• Track 26 : QueenPie_41
• Track 27 : Magpie_41
• Track 28 : Shenyu_45, DigitDog_45, Nangang_45
• Track 29 : StinkyVeggy_47, KarasumaRum_47
• Track 30 : Acadian_46, Reccee_46, EastView9101_44, Suigeneris_46, Donny_46, SirJeffery_46, Rita130_46

• Track 31 : Rich_44
• Track 32 : Baee_45
• Track 33 : Serendipitous_45
• Track 34 : Hosp_037, 40BC_039, 39HC_039
• Track 35 : KayaCho_39
• Track 36 : ForDig_39
• Track 37 : Minnow_40
• Track 38 : Jolie1_039
• Track 39 : Thonko_45
• Track 40 : CRB2_48
• Track 41 : Funsized_49
• Track 42 : Knocker_47
• Track 43 : Quesadilla_48
• Track 44 : Rinkes_46
• Track 45 : PenguinLover67_48
• Track 46 : Trine_54
• Track 47 : Applejacks_53
• Track 48 : Nova_41, Butterscotch_41, SuperheroCarly_42, PBI1_41, Prager_42, Penelope2018_42, Adjutor_42, KandZ_42, BigMama_40, Thoth_42
• Track 49 : Chill_43, WaldoWhy_43
• Track 50 : PLot_42, Erk16_41
• Track 51 : Giuseppe_42, Troll4_42, Helpful_43, Visconti_42, Delton_42
• Track 52 : Mopey_42
• Track 53 : Phalaborwa_42
• Track 54 : Gumball_40, SirHarley_41
• Track 55 : Hawkeye_45
• Track 56 : CherryTomatoes_54, Pupper_52
• Track 57 : SCentae_52
• Track 58 : Fresco_40, Axumite_40, Shatter_40, Ligma_40
• Track 59 : JellyBelly_40, Coco2012_40, CharlottesWeb_40
• Track 60 : LittleMunchkin_42
• Track 61 : BiggityBass_40
• Track 62 : BobRoss2024_39
• Track 63 : Sour_45
• Track 64 : Mariokart_40
• Track 65 : Sisko_40, Yago84_40, AnClar_41
• Track 66 : RedWattleHog_178, Stormageddon_179
• Track 67 : Predator_42
• Track 68 : WorMMAs_53
• Track 69 : TPA2_53

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

The start number called the most often in the published annotations is 25, it was called in 54 of the 131 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 39HC_039, 40BC_039, Acadian_46, Allegro_46, Arbiter_45, Ares_46, Baee_45, Bananafish_46, BirdsNest_48, Blocker23_46, Boyle_46, Brownie5_46, CRB2_48, Calamitous_46, Coffee_46, DigitDog_45, Donny_46, Eaglehorse_46,

EastView9101_44, Faze9_45, ForDig_39, FrenchFry_46, Funsized_49, Glass_46, Godines_46, Hashim76_48, Hedgerow_46, Holeinone_46, Hosp_037, Imvubu_38, Indlovu_44, ItsyBitsy1_46, Jolie1_039, Kaleb_46, KarasumaRum_47, KayaCho_39, Kheth_46, Knocker_47, Kolhan_46, Lars_46, Laurie_45, Lephleur_46, LilSmirk_46, LittleMinkey_51, LizLemon_46, MasterPo_46, Minnow_40, Nangang_45, Opia_46, Phantasmagoria_46, PrinceCharming_46, Reccee_46, Rhinoforte_46, Rich_44, Rita130_46, Rosebush_45, Sabella_45, Serendipitous_45, Shenyu_45, SirJeffery_46, StinkyVeggy_47, Suigeneris_46, TA17A_47, Tinciduntsolum_47, Tres_46, Vic9_00045, West99_46, Zenteno07_50,

Genes that have the "Most Annotated" start but do not call it:
• BobRoss2024_39, Rinkes_46,

Genes that do not have the "Most Annotated" start:
• Adjutor_42, Ahwei_41, Aikoy_55, AnClar_41, Antihero_41, Apex_43, Applejacks_53, Austelle_43, Axumite_40, BigMama_40, BiggityBass_40, BobbyK_43, BrownCNA_44, Butterscotch_41, CharlottesWeb_40, CherryTomatoes_54, Chill_43, ChrisnMich_42, Coco2012_40, Cooper_43, Delton_42, Epah_41, Erk16_41, Fanaw_41, Fortunato_43, Frederick_43, Fresco_40, GinPorsche_42, Giuseppe_42, Gumball_40, Hally898_41, Hangman_42, Hawkeye_45, Heath_41, Helpful_43, Hydro_42, JAMaL_42, JaguarMi_42, JellyBelly_40, JoyceMaria_42, KandZ_42, Lambano_41, Leopard_54, Ligma_40, LilMcDreamy_43, LittleDigger_41, LittleMunchkin_42, Lolalove_43, Magpie_41, Mariokart_40, Mithril_42, Mopey_42, Mudslide_42, Nanao_41, Nigel_41, Nova_41, Onyinye_55, PBI1_41, PLot_42, Penelope2018_42, PenguinLover67_48, Phalaborwa_42, Poster_41, Prager_42, Predator_42, Prince_42, Pupper_52, QueenPie_41, Quesadilla_48, RawrgerThat_43, RedWattleHog_178, Renkei_41, SCentae_52, Shatter_40, SirHarley_41, Sisko_40, Sour_45, Stinger_41, Stormageddon_179, SuperheroCarly_42, TPA2_53, Thonko_45, Thoth_42, Trine_54, Troll4_42, VioletZ_44, Visconti_42, WaldoWhy_43, Waleliano_42, WorMMAs_53, Xincheng_41, Yago84_40, Zemanar_43,

Summary by start number:

Start 20:
• Found in 4 of 163 (2.5%) of genes in pham
• Manual Annotations of this start: 1 of 131
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Rinkes_46 (B9),

Start 24:
• Found in 2 of 163 (1.2%) of genes in pham
• Manual Annotations of this start: 2 of 131
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LilMcDreamy_43 (B12), Predator_42 (H1),

Start 25:
• Found in 70 of 163 (42.9%) of genes in pham
• Manual Annotations of this start: 54 of 131
• Called 97.1% of time when present
• Phage (with cluster) where this start called: 39HC_039 (B6), 40BC_039 (B6), Acadian_46 (B5), Allegro_46 (B2), Arbiter_45 (B2), Ares_46 (B2), Baee_45 (B5), Bananafish_46 (B2), BirdsNest_48 (B13), Blocker23_46 (B2), Boyle_46 (B2),

Brownie5_46 (B2), CRB2_48 (B9), Calamitous_46 (B2), Coffee_46 (B2), DigitDog_45 (B5), Donny_46 (B5), Eaglehorse_46 (B2), EastView9101_44 (B5), Faze9_45 (B2), ForDig_39 (B6), FrenchFry_46 (B2), Funsized_49 (B9), Glass_46 (B2), Godines_46 (B2), Hashim76_48 (B13), Hedgerow_46 (B2), Holeinone_46 (B2), Hosp_037 (B6), Imvubu_38 (B10), Indlovu_44 (B11), ItsyBitsy1_46 (B2), Jolie1_039 (B6), Kaleb_46 (B2), KarasumaRum_47 (B5), KayaCho_39 (B6), Kheth_46 (B2), Knocker_47 (B9), Kolhan_46 (B2), Lars_46 (B2), Laurie_45 (B2), Lephleur_46 (B2), LilSmirk_46 (B2), LittleMinkey_51 (B13), LizLemon_46 (B2), MasterPo_46 (B2), Minnow_40 (B6), Nangang_45 (B5), Opia_46 (B2), Phantasmagoria_46 (B2), PrinceCharming_46 (B2), Reccee_46 (B5), Rhinoforte_46 (B2), Rich_44 (B5), Rita130_46 (B5), Rosebush_45 (B2), Sabella_45 (B2), Serendipitous_45 (B5), Shenyu_45 (B5), SirJeffery_46 (B5), StinkyVeggy_47 (B5), Suigeneris_46 (B5), TA17A_47 (B2), Tinciduntsolum_47 (B2), Tres_46 (B2), Vic9_00045 (B2), West99_46 (B2), Zenteno07_50 (B13),

Start 29:
• Found in 39 of 163 (23.9%) of genes in pham
• Manual Annotations of this start: 28 of 131
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ahwei_41 (B4), Antihero_41 (B4), Apex_43 (B4), Austelle_43 (B4), BobbyK_43 (B4), BrownCNA_44 (B4), ChrisnMich_42 (B4), Cooper_43 (B4), Epah_41 (B4), Fanaw_41 (B4), Fortunato_43 (B4), Frederick_43 (B4), GinPorsche_42 (B4), Hally898_41 (B4), Hangman_42 (B4), Heath_41 (B4), Hydro_42 (B4), JAMaL_42 (B4), JaguarMi_42 (B4), JoyceMaria_42 (B4), Lambano_41 (B4), LittleDigger_41 (B4), Lolalove_43 (B4), Magpie_41 (B4), Mithril_42 (B4), Mudslide_42 (B4), Nanao_41 (B4), Nigel_41 (B4), Poster_41 (B4), Prince_42 (B4), QueenPie_41 (B4), RawrgerThat_43 (B4), Renkei_41 (B4), Stinger_41 (B4), Thonko_45 (B8), VioletZ_44 (B4), Waleliano_42 (B4), Xincheng_41 (B4), Zemanar_43 (B4),

Start 32:
• Found in 28 of 163 (17.2%) of genes in pham
• Manual Annotations of this start: 22 of 131
• Called 82.1% of time when present
• Phage (with cluster) where this start called: Adjutor_42 (D1), BigMama_40 (D1), Butterscotch_41 (D1), Chill_43 (D1), Delton_42 (D1), Erk16_41 (D1), Giuseppe_42 (D1), Gumball_40 (D1), Helpful_43 (D1), KandZ_42 (D1), Mopey_42 (D1), Nova_41 (D1), PBI1_41 (D1), PLot_42 (D1), Penelope2018_42 (D1), Phalaborwa_42 (D1), Prager_42 (D1), SirHarley_41 (D1), SuperheroCarly_42 (D1), Thoth_42 (D1), Troll4_42 (D1), Visconti_42 (D1), WaldoWhy_43 (D1),

Start 34:
• Found in 1 of 163 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 131
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hawkeye_45 (D2),

Start 36:
• Found in 1 of 163 (0.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TPA2_53 (singleton),

Start 37:

• Found in 15 of 163 (9.2%) of genes in pham
• Manual Annotations of this start: 12 of 131
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AnClar_41 (DR), Axumite_40 (DR), BiggityBass_40 (DR), BobRoss2024_39 (DR), CharlottesWeb_40 (DR), Coco2012_40 (DR), Fresco_40 (DR), JellyBelly_40 (DR), Ligma_40 (DR), LittleMunchkin_42 (DR), Mariokart_40 (DR), Shatter_40 (DR), Sisko_40 (DR), Sour_45 (DR), Yago84_40 (DR),

Start 39:
• Found in 2 of 163 (1.2%) of genes in pham
• Manual Annotations of this start: 2 of 131
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RedWattleHog_178 (DX), Stormageddon_179 (DX),

Start 40:
• Found in 5 of 163 (3.1%) of genes in pham
• Manual Annotations of this start: 3 of 131
• Called 60.0% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_54 (DO), Pupper_52 (DO), SCentae_52 (DO),

Start 43:
• Found in 1 of 163 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 131
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Trine_54 (CD),

Start 50:
• Found in 3 of 163 (1.8%) of genes in pham
• Manual Annotations of this start: 3 of 131
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aikoy_55 (AE), Leopard_54 (AE), Onyinye_55 (AE),

Start 54:
• Found in 2 of 163 (1.2%) of genes in pham
• Manual Annotations of this start: 2 of 131
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PenguinLover67_48 (B9), Quesadilla_48 (B9),

Start 57:
• Found in 1 of 163 (0.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Applejacks_53 (CD),

Start 58:
• Found in 1 of 163 (0.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present

• Phage (with cluster) where this start called: WorMMAs_53 (UNK),

Summary by clusters:

There are 20 clusters represented in this pham: DO, singleton, AE, DX, B10, D2, H1, CD, B4, B5, B6, B12, B13, B2, B11, UNK, DR, B9, B8, D1,

Info for manual annotations of cluster AE:
•Start number 50 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster B10:
•Start number 25 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:
•Start number 25 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:
•Start number 24 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:
•Start number 25 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B2:
•Start number 25 was manually annotated 36 times for cluster B2.

Info for manual annotations of cluster B4:
•Start number 29 was manually annotated 27 times for cluster B4.

Info for manual annotations of cluster B5:
•Start number 25 was manually annotated 8 times for cluster B5.

Info for manual annotations of cluster B6:
•Start number 25 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B8:
•Start number 29 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:
•Start number 20 was manually annotated 1 time for cluster B9.
•Start number 25 was manually annotated 3 times for cluster B9.
•Start number 54 was manually annotated 2 times for cluster B9.

Info for manual annotations of cluster CD:
•Start number 43 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster D1:
•Start number 32 was manually annotated 22 times for cluster D1.

Info for manual annotations of cluster D2:
•Start number 34 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster DO:
•Start number 40 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster DR:
•Start number 37 was manually annotated 12 times for cluster DR.

Info for manual annotations of cluster DX:
•Start number 39 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster H1:
•Start number 24 was manually annotated 1 time for cluster H1.

Gene Information:

Gene: 39HC_039 Start: 38257, Stop: 37487, Start Num: 25
Candidate Starts for 39HC_039:
(Start: 25 @38257 has 54 MA's), (Start: 32 @38218 has 22 MA's), (65, 38110), (69, 38098), (74, 38074), (96, 37996), (139, 37810), (140, 37807), (144, 37786), (158, 37705), (161, 37690),

Gene: 40BC_039 Start: 38257, Stop: 37487, Start Num: 25
Candidate Starts for 40BC_039:
(Start: 25 @38257 has 54 MA's), (Start: 32 @38218 has 22 MA's), (65, 38110), (69, 38098), (74, 38074), (96, 37996), (139, 37810), (140, 37807), (144, 37786), (158, 37705), (161, 37690),

Gene: Acadian_46 Start: 40902, Stop: 40117, Start Num: 25
Candidate Starts for Acadian_46:
(Start: 25 @40902 has 54 MA's), (46, 40815), (68, 40740), (74, 40713), (102, 40614), (158, 40335), (161, 40320),

Gene: Adjutor_42 Start: 35432, Stop: 34551, Start Num: 32
Candidate Starts for Adjutor_42:
(Start: 32 @35432 has 22 MA's), (68, 35300), (77, 35264), (84, 35243), (90, 35222), (120, 35078), (124, 35036), (142, 34946), (156, 34874), (175, 34766), (177, 34751), (182, 34700),

Gene: Ahwei_41 Start: 39395, Stop: 38667, Start Num: 29
Candidate Starts for Ahwei_41:
(Start: 29 @39395 has 28 MA's), (65, 39254), (70, 39233), (74, 39218), (108, 39113), (137, 38993), (140, 38987), (158, 38885), (169, 38840),

Gene: Aikoy_55 Start: 40551, Stop: 41255, Start Num: 50
Candidate Starts for Aikoy_55:
(Start: 50 @40551 has 3 MA's), (63, 40599), (66, 40608), (67, 40611), (86, 40677), (101, 40734), (112, 40779), (138, 40938), (141, 40950), (143, 40956), (157, 41052), (163, 41073), (174, 41145), (177, 41166), (178, 41181), (181, 41205),

Gene: Allegro_46 Start: 40703, Stop: 39927, Start Num: 25
Candidate Starts for Allegro_46:
(Start: 25 @40703 has 54 MA's), (35, 40649), (46, 40604), (65, 40547), (68, 40538), (69, 40535), (70, 40526), (95, 40439), (99, 40424), (116, 40340), (140, 40247), (148, 40196), (158, 40145), (167, 40106),

Gene: AnClar_41 Start: 36812, Stop: 36102, Start Num: 37

Candidate Starts for AnClar_41:
(Start: 37 @36812 has 12 MA's), (97, 36614), (116, 36521), (140, 36416), (158, 36314), (161, 36299), (170, 36251),

Gene: Antihero_41 Start: 39395, Stop: 38667, Start Num: 29
Candidate Starts for Antihero_41:
(Start: 29 @39395 has 28 MA's), (65, 39254), (70, 39233), (74, 39218), (108, 39113), (137, 38993), (140, 38987), (158, 38885), (169, 38840),

Gene: Apex_43 Start: 40637, Stop: 39879, Start Num: 29
Candidate Starts for Apex_43:
(Start: 29 @40637 has 28 MA's), (41, 40568), (72, 40460), (81, 40430), (99, 40382), (102, 40370), (115, 40325), (134, 40214), (140, 40199), (158, 40097), (169, 40052), (171, 40031), (173, 40013), (186, 39905),

Gene: Applejacks_53 Start: 38314, Stop: 37676, Start Num: 57
Candidate Starts for Applejacks_53:
(48, 38347), (56, 38317), (57, 38314), (86, 38221), (91, 38200), (94, 38188), (110, 38119), (111, 38116), (140, 37993), (149, 37939), (151, 37927), (158, 37891), (168, 37849), (180, 37750),

Gene: Arbiter_45 Start: 40777, Stop: 40013, Start Num: 25
Candidate Starts for Arbiter_45:
(Start: 25 @40777 has 54 MA's), (35, 40735), (46, 40690), (65, 40633), (68, 40624), (69, 40621), (70, 40612), (95, 40525), (99, 40510), (116, 40426), (140, 40333), (148, 40282), (158, 40231), (167, 40192),

Gene: Ares_46 Start: 40761, Stop: 39997, Start Num: 25
Candidate Starts for Ares_46:
(Start: 25 @40761 has 54 MA's), (46, 40674), (65, 40617), (68, 40608), (69, 40605), (70, 40596), (95, 40509), (99, 40494), (116, 40410), (140, 40317), (148, 40266), (158, 40215), (167, 40176),

Gene: Austelle_43 Start: 41087, Stop: 40329, Start Num: 29
Candidate Starts for Austelle_43:
(Start: 29 @41087 has 28 MA's), (41, 41018), (72, 40910), (81, 40880), (99, 40832), (102, 40820), (115, 40775), (134, 40664), (140, 40649), (158, 40547), (169, 40502), (173, 40463), (186, 40355),

Gene: Axumite_40 Start: 34038, Stop: 33349, Start Num: 37
Candidate Starts for Axumite_40:
(22, 34119), (28, 34071), (Start: 37 @34038 has 12 MA's), (79, 33888), (85, 33876), (88, 33867), (144, 33642), (158, 33561), (161, 33546), (170, 33498),

Gene: Baee_45 Start: 40787, Stop: 40020, Start Num: 25
Candidate Starts for Baee_45:
(Start: 25 @40787 has 54 MA's), (55, 40664), (68, 40625), (74, 40598), (102, 40499), (116, 40424), (122, 40391), (140, 40340), (158, 40238), (159, 40232), (161, 40223),

Gene: Bananafish_46 Start: 40697, Stop: 39933, Start Num: 25
Candidate Starts for Bananafish_46:
(Start: 25 @40697 has 54 MA's), (46, 40610), (65, 40553), (68, 40544), (69, 40541), (70, 40532), (95, 40445), (99, 40430), (116, 40346), (140, 40253), (148, 40202), (158, 40151), (167, 40112),

Gene: BigMama_40 Start: 35508, Stop: 34627, Start Num: 32
Candidate Starts for BigMama_40:

(Start: 32 @35508 has 22 MA's), (68, 35376), (77, 35340), (84, 35319), (90, 35298), (120, 35154), (124, 35112), (142, 35022), (156, 34950), (175, 34842), (177, 34827), (182, 34776),

Gene: BiggityBass_40 Start: 36280, Stop: 35564, Start Num: 37
Candidate Starts for BiggityBass_40:
(Start: 37 @36280 has 12 MA's), (62, 36193), (116, 35992), (120, 35971), (140, 35878), (158, 35776), (161, 35761), (170, 35713),

Gene: BirdsNest_48 Start: 39192, Stop: 38389, Start Num: 25
Candidate Starts for BirdsNest_48:
(1, 39444), (2, 39432), (12, 39270), (13, 39267), (14, 39252), (17, 39237), (18, 39231), (Start: 25 @39192 has 54 MA's), (45, 39087), (47, 39081), (69, 39009), (74, 38985), (82, 38961), (103, 38880), (140, 38709), (158, 38604), (167, 38565),

Gene: Blocker23_46 Start: 40815, Stop: 40051, Start Num: 25
Candidate Starts for Blocker23_46:
(Start: 25 @40815 has 54 MA's), (35, 40773), (46, 40728), (65, 40671), (68, 40662), (69, 40659), (70, 40650), (95, 40563), (99, 40548), (116, 40464), (140, 40371), (148, 40320), (158, 40269), (167, 40230),

Gene: BobRoss2024_39 Start: 34120, Stop: 33434, Start Num: 37
Candidate Starts for BobRoss2024_39:
(Start: 25 @34183 has 54 MA's), (Start: 37 @34120 has 12 MA's), (116, 33823), (118, 33811), (136, 33766), (140, 33748), (158, 33646), (161, 33631), (184, 33469),

Gene: BobbyK_43 Start: 40432, Stop: 39698, Start Num: 29
Candidate Starts for BobbyK_43:
(Start: 29 @40432 has 28 MA's), (72, 40258), (81, 40228), (99, 40180), (102, 40168), (137, 40024), (140, 40018), (158, 39916), (169, 39871), (173, 39832), (186, 39724),

Gene: Boyle_46 Start: 40816, Stop: 40052, Start Num: 25
Candidate Starts for Boyle_46:
(Start: 25 @40816 has 54 MA's), (46, 40729), (65, 40672), (68, 40663), (69, 40660), (70, 40651), (95, 40564), (99, 40549), (116, 40465), (140, 40372), (148, 40321), (158, 40270), (167, 40231),

Gene: BrownCNA_44 Start: 40717, Stop: 39959, Start Num: 29
Candidate Starts for BrownCNA_44:
(Start: 29 @40717 has 28 MA's), (41, 40648), (72, 40540), (81, 40510), (99, 40462), (102, 40450), (134, 40294), (140, 40279), (145, 40246), (158, 40177), (169, 40132), (173, 40093), (186, 39985),

Gene: Brownie5_46 Start: 40828, Stop: 40058, Start Num: 25
Candidate Starts for Brownie5_46:
(Start: 25 @40828 has 54 MA's), (46, 40735), (65, 40678), (68, 40669), (69, 40666), (70, 40657), (95, 40570), (99, 40555), (116, 40471), (140, 40378), (148, 40327), (158, 40276), (167, 40237),

Gene: Butterscotch_41 Start: 35492, Stop: 34611, Start Num: 32
Candidate Starts for Butterscotch_41:
(Start: 32 @35492 has 22 MA's), (68, 35360), (77, 35324), (84, 35303), (90, 35282), (120, 35138), (124, 35096), (142, 35006), (156, 34934), (175, 34826), (177, 34811), (182, 34760),

Gene: CRB2_48 Start: 42937, Stop: 42212, Start Num: 25
Candidate Starts for CRB2_48:

(Start: 25 @42937 has 54 MA's), (82, 42748), (86, 42736), (102, 42685), (112, 42652), (119, 42601), (151, 42466), (158, 42430), (161, 42415), (167, 42391), (173, 42346), (180, 42292),

Gene: Calamitous_46 Start: 40702, Stop: 39938, Start Num: 25
Candidate Starts for Calamitous_46:
(Start: 25 @40702 has 54 MA's), (35, 40660), (46, 40615), (65, 40558), (68, 40549), (69, 40546), (70, 40537), (95, 40450), (99, 40435), (116, 40351), (140, 40258), (148, 40207), (158, 40156), (167, 40117),

Gene: CharlottesWeb_40 Start: 33924, Stop: 33235, Start Num: 37
Candidate Starts for CharlottesWeb_40:
(Start: 37 @33924 has 12 MA's), (77, 33780), (88, 33753), (108, 33675), (140, 33549), (158, 33447), (161, 33432), (170, 33384),

Gene: CherryTomatoes_54 Start: 17569, Stop: 18327, Start Num: 40
Candidate Starts for CherryTomatoes_54:
(Start: 40 @17569 has 3 MA's), (121, 17890), (155, 18070), (164, 18118), (172, 18166),

Gene: Chill_43 Start: 35498, Stop: 34617, Start Num: 32
Candidate Starts for Chill_43:
(Start: 32 @35498 has 22 MA's), (68, 35366), (77, 35330), (90, 35288), (120, 35144), (124, 35102), (142, 35012), (175, 34832), (177, 34817), (182, 34766),

Gene: ChrisnMich_42 Start: 39396, Stop: 38659, Start Num: 29
Candidate Starts for ChrisnMich_42:
(21, 39450), (Start: 29 @39396 has 28 MA's), (53, 39282), (64, 39252), (69, 39234), (87, 39180), (99, 39141), (127, 39021), (137, 38985), (140, 38979), (145, 38946), (158, 38877), (169, 38832),

Gene: Coco2012_40 Start: 33921, Stop: 33232, Start Num: 37
Candidate Starts for Coco2012_40:
(Start: 37 @33921 has 12 MA's), (77, 33777), (88, 33750), (108, 33672), (140, 33546), (158, 33444), (161, 33429), (170, 33381),

Gene: Coffee_46 Start: 40805, Stop: 40041, Start Num: 25
Candidate Starts for Coffee_46:
(Start: 25 @40805 has 54 MA's), (46, 40718), (65, 40661), (68, 40652), (69, 40649), (70, 40640), (95, 40553), (99, 40538), (116, 40454), (140, 40361), (148, 40310), (158, 40259), (167, 40220),

Gene: Cooper_43 Start: 39615, Stop: 38878, Start Num: 29
Candidate Starts for Cooper_43:
(21, 39669), (Start: 29 @39615 has 28 MA's), (53, 39501), (64, 39471), (69, 39453), (87, 39399), (99, 39360), (127, 39240), (137, 39204), (140, 39198), (145, 39165), (158, 39096), (169, 39051),

Gene: Delton_42 Start: 35504, Stop: 34623, Start Num: 32
Candidate Starts for Delton_42:
(Start: 32 @35504 has 22 MA's), (68, 35372), (77, 35336), (84, 35315), (90, 35294), (120, 35150), (124, 35108), (142, 35018), (175, 34838), (177, 34823), (181, 34775),

Gene: DigitDog_45 Start: 40602, Stop: 39817, Start Num: 25
Candidate Starts for DigitDog_45:
(3, 40782), (4, 40770), (5, 40764), (9, 40713), (Start: 25 @40602 has 54 MA's), (68, 40440), (74, 40413), (102, 40314), (116, 40239), (140, 40137), (158, 40035), (159, 40029), (161, 40020), (170, 39972),

Gene: Donny_46 Start: 40907, Stop: 40122, Start Num: 25
Candidate Starts for Donny_46:
(Start: 25 @40907 has 54 MA's), (46, 40820), (68, 40745), (74, 40718), (102, 40619), (158, 40340), (161, 40325),

Gene: Eaglehorse_46 Start: 40729, Stop: 39965, Start Num: 25
Candidate Starts for Eaglehorse_46:
(Start: 25 @40729 has 54 MA's), (46, 40642), (65, 40585), (68, 40576), (69, 40573), (70, 40564), (95, 40477), (99, 40462), (116, 40378), (140, 40285), (148, 40234), (158, 40183), (167, 40144),

Gene: EastView9101_44 Start: 40557, Stop: 39772, Start Num: 25
Candidate Starts for EastView9101_44:
(Start: 25 @40557 has 54 MA's), (46, 40470), (68, 40395), (74, 40368), (102, 40269), (158, 39990), (161, 39975),

Gene: Epah_41 Start: 39395, Stop: 38667, Start Num: 29
Candidate Starts for Epah_41:
(Start: 29 @39395 has 28 MA's), (65, 39254), (70, 39233), (74, 39218), (108, 39113), (137, 38993), (140, 38987), (158, 38885), (169, 38840),

Gene: Erk16_41 Start: 35489, Stop: 34620, Start Num: 32
Candidate Starts for Erk16_41:
(Start: 32 @35489 has 22 MA's), (68, 35357), (77, 35321), (90, 35279), (120, 35135), (124, 35093), (142, 35003), (175, 34823), (177, 34808), (181, 34760),

Gene: Fanaw_41 Start: 40092, Stop: 39364, Start Num: 29
Candidate Starts for Fanaw_41:
(Start: 29 @40092 has 28 MA's), (72, 39924), (81, 39894), (99, 39846), (102, 39834), (137, 39690), (140, 39684), (158, 39582), (169, 39537), (173, 39498), (186, 39390),

Gene: Faze9_45 Start: 40825, Stop: 40061, Start Num: 25
Candidate Starts for Faze9_45:
(Start: 25 @40825 has 54 MA's), (35, 40783), (46, 40738), (65, 40681), (68, 40672), (69, 40669), (70, 40660), (95, 40573), (99, 40558), (116, 40474), (140, 40381), (148, 40330), (158, 40279), (167, 40240),

Gene: ForDig_39 Start: 38242, Stop: 37472, Start Num: 25
Candidate Starts for ForDig_39:
(Start: 25 @38242 has 54 MA's), (Start: 32 @38203 has 22 MA's), (69, 38083), (74, 38059), (96, 37981), (139, 37795), (140, 37792), (144, 37771), (158, 37690), (161, 37675),

Gene: Fortunato_43 Start: 40450, Stop: 39692, Start Num: 29
Candidate Starts for Fortunato_43:
(Start: 29 @40450 has 28 MA's), (41, 40381), (72, 40273), (81, 40243), (99, 40195), (102, 40183), (115, 40138), (134, 40027), (140, 40012), (158, 39910), (169, 39865), (173, 39826), (186, 39718),

Gene: Frederick_43 Start: 40432, Stop: 39698, Start Num: 29
Candidate Starts for Frederick_43:
(Start: 29 @40432 has 28 MA's), (72, 40258), (81, 40228), (99, 40180), (102, 40168), (137, 40024), (140, 40018), (158, 39916), (169, 39871), (173, 39832), (186, 39724),

Gene: FrenchFry_46 Start: 40819, Stop: 40055, Start Num: 25

Candidate Starts for FrenchFry_46:
(Start: 25 @40819 has 54 MA's), (46, 40732), (65, 40675), (68, 40666), (69, 40663), (70, 40654), (95, 40567), (99, 40552), (116, 40468), (140, 40375), (148, 40324), (158, 40273), (167, 40234),

Gene: Fresco_40 Start: 34038, Stop: 33349, Start Num: 37
Candidate Starts for Fresco_40:
(22, 34119), (28, 34071), (Start: 37 @34038 has 12 MA's), (79, 33888), (85, 33876), (88, 33867), (144, 33642), (158, 33561), (161, 33546), (170, 33498),

Gene: Funsized_49 Start: 43198, Stop: 42434, Start Num: 25
Candidate Starts for Funsized_49:
(Start: 25 @43198 has 54 MA's), (65, 43051), (72, 43024), (74, 43015), (89, 42967), (102, 42916), (120, 42823), (139, 42757), (140, 42754), (146, 42712), (158, 42652), (162, 42634),

Gene: GinPorsche_42 Start: 39395, Stop: 38667, Start Num: 29
Candidate Starts for GinPorsche_42:
(Start: 29 @39395 has 28 MA's), (65, 39254), (70, 39233), (74, 39218), (108, 39113), (137, 38993), (140, 38987), (158, 38885), (169, 38840),

Gene: Giuseppe_42 Start: 35481, Stop: 34612, Start Num: 32
Candidate Starts for Giuseppe_42:
(Start: 32 @35481 has 22 MA's), (68, 35349), (77, 35313), (84, 35292), (90, 35271), (120, 35127), (124, 35085), (142, 34995), (175, 34815), (177, 34800), (181, 34752),

Gene: Glass_46 Start: 40819, Stop: 40055, Start Num: 25
Candidate Starts for Glass_46:
(Start: 25 @40819 has 54 MA's), (46, 40732), (65, 40675), (68, 40666), (69, 40663), (70, 40654), (95, 40567), (99, 40552), (116, 40468), (140, 40375), (148, 40324), (158, 40273), (167, 40234),

Gene: Godines_46 Start: 40761, Stop: 39997, Start Num: 25
Candidate Starts for Godines_46:
(Start: 25 @40761 has 54 MA's), (35, 40719), (46, 40674), (65, 40617), (68, 40608), (69, 40605), (70, 40596), (95, 40509), (99, 40494), (116, 40410), (140, 40317), (148, 40266), (158, 40215), (167, 40176),

Gene: Gumball_40 Start: 35445, Stop: 34561, Start Num: 32
Candidate Starts for Gumball_40:
(Start: 32 @35445 has 22 MA's), (60, 35340), (68, 35313), (77, 35277), (84, 35256), (90, 35235), (120, 35091), (124, 35049), (142, 34959), (156, 34887), (175, 34776), (177, 34761), (182, 34710),

Gene: Hally898_41 Start: 39407, Stop: 38679, Start Num: 29
Candidate Starts for Hally898_41:
(Start: 29 @39407 has 28 MA's), (65, 39266), (70, 39245), (74, 39230), (108, 39125), (137, 39005), (140, 38999), (158, 38897), (169, 38852),

Gene: Hangman_42 Start: 40448, Stop: 39690, Start Num: 29
Candidate Starts for Hangman_42:
(Start: 29 @40448 has 28 MA's), (41, 40379), (72, 40271), (81, 40241), (99, 40193), (102, 40181), (134, 40025), (140, 40010), (145, 39977), (158, 39908), (169, 39863), (173, 39824), (186, 39716),

Gene: Hashim76_48 Start: 39661, Stop: 38867, Start Num: 25
Candidate Starts for Hashim76_48:

(Start: 20 @39691 has 1 MA's), (Start: 25 @39661 has 54 MA's), (31, 39613), (47, 39553), (65, 39490), (74, 39454), (82, 39430), (120, 39244), (140, 39187), (158, 39082), (167, 39043), (170, 39019),

Gene: Hawkeye_45 Start: 35438, Stop: 34584, Start Num: 34
Candidate Starts for Hawkeye_45:
(Start: 34 @35438 has 1 MA's), (68, 35315), (71, 35300), (83, 35264), (85, 35258), (90, 35240), (120, 35096), (123, 35066), (129, 35045), (142, 34976), (146, 34946), (148, 34934), (151, 34916), (160, 34865),

Gene: Heath_41 Start: 40055, Stop: 39297, Start Num: 29
Candidate Starts for Heath_41:
(Start: 29 @40055 has 28 MA's), (41, 39986), (72, 39878), (81, 39848), (99, 39800), (102, 39788), (115, 39743), (134, 39632), (140, 39617), (145, 39584), (158, 39515), (169, 39470), (173, 39431), (186, 39323),

Gene: Hedgerow_46 Start: 40801, Stop: 40037, Start Num: 25
Candidate Starts for Hedgerow_46:
(Start: 25 @40801 has 54 MA's), (46, 40714), (65, 40657), (68, 40648), (69, 40645), (70, 40636), (95, 40549), (99, 40534), (116, 40450), (140, 40357), (148, 40306), (158, 40255), (167, 40216),

Gene: Helpful_43 Start: 35480, Stop: 34611, Start Num: 32
Candidate Starts for Helpful_43:
(Start: 32 @35480 has 22 MA's), (68, 35348), (77, 35312), (84, 35291), (90, 35270), (120, 35126), (124, 35084), (142, 34994), (175, 34814), (177, 34799), (181, 34751),

Gene: Holeinone_46 Start: 40681, Stop: 39917, Start Num: 25
Candidate Starts for Holeinone_46:
(Start: 25 @40681 has 54 MA's), (35, 40639), (46, 40594), (65, 40537), (68, 40528), (69, 40525), (70, 40516), (95, 40429), (99, 40414), (116, 40330), (140, 40237), (148, 40186), (158, 40135), (167, 40096),

Gene: Hosp_037 Start: 36449, Stop: 35679, Start Num: 25
Candidate Starts for Hosp_037:
(Start: 25 @36449 has 54 MA's), (Start: 32 @36410 has 22 MA's), (65, 36302), (69, 36290), (74, 36266), (96, 36188), (139, 36002), (140, 35999), (144, 35978), (158, 35897), (161, 35882),

Gene: Hydro_42 Start: 40465, Stop: 39707, Start Num: 29
Candidate Starts for Hydro_42:
(Start: 29 @40465 has 28 MA's), (41, 40396), (72, 40288), (81, 40258), (99, 40210), (102, 40198), (134, 40042), (140, 40027), (145, 39994), (158, 39925), (169, 39880), (173, 39841), (186, 39733),

Gene: Imvubu_38 Start: 37209, Stop: 36445, Start Num: 25
Candidate Starts for Imvubu_38:
(Start: 25 @37209 has 54 MA's), (42, 37146), (51, 37113), (60, 37077), (65, 37062), (74, 37026), (89, 36978), (102, 36927), (151, 36699), (158, 36663), (161, 36648), (162, 36645), (167, 36624),

Gene: Indlovu_44 Start: 39795, Stop: 38992, Start Num: 25
Candidate Starts for Indlovu_44:
(Start: 25 @39795 has 54 MA's), (81, 39591), (100, 39525), (113, 39477), (116, 39441), (131, 39354), (139, 39315), (140, 39312), (158, 39210), (159, 39204), (161, 39195), (167, 39171), (171, 39144), (180, 39072), (186, 39018),

Gene: ItsyBitsy1_46 Start: 40683, Stop: 39919, Start Num: 25

Candidate Starts for ItsyBitsy1_46:
(Start: 25 @40683 has 54 MA's), (46, 40596), (65, 40539), (68, 40530), (69, 40527), (70, 40518), (95, 40431), (99, 40416), (116, 40332), (140, 40239), (148, 40188), (158, 40137), (167, 40098),

Gene: JAMaL_42 Start: 40606, Stop: 39878, Start Num: 29
Candidate Starts for JAMaL_42:
(21, 40660), (Start: 29 @40606 has 28 MA's), (65, 40465), (70, 40444), (74, 40429), (108, 40324), (137, 40204), (140, 40198), (158, 40096), (169, 40051), (171, 40030), (173, 40012), (186, 39904),

Gene: JaguarMi_42 Start: 39908, Stop: 39174, Start Num: 29
Candidate Starts for JaguarMi_42:
(Start: 29 @39908 has 28 MA's), (72, 39734), (81, 39704), (99, 39656), (102, 39644), (120, 39554), (137, 39500), (140, 39494), (158, 39392), (169, 39347), (173, 39308),

Gene: JellyBelly_40 Start: 33927, Stop: 33238, Start Num: 37
Candidate Starts for JellyBelly_40:
(Start: 37 @33927 has 12 MA's), (77, 33783), (88, 33756), (108, 33678), (140, 33552), (158, 33450), (161, 33435), (170, 33387),

Gene: Jolie1_039 Start: 38233, Stop: 37463, Start Num: 25
Candidate Starts for Jolie1_039:
(Start: 25 @38233 has 54 MA's), (Start: 32 @38194 has 22 MA's), (65, 38086), (69, 38074), (74, 38050), (96, 37972), (132, 37813), (139, 37786), (140, 37783), (144, 37762), (158, 37681), (161, 37666),

Gene: JoyceMaria_42 Start: 40421, Stop: 39693, Start Num: 29
Candidate Starts for JoyceMaria_42:
(Start: 29 @40421 has 28 MA's), (72, 40253), (81, 40223), (82, 40220), (99, 40175), (102, 40163), (137, 40019), (140, 40013), (158, 39911), (169, 39866), (173, 39827), (186, 39719),

Gene: Kaleb_46 Start: 40816, Stop: 40052, Start Num: 25
Candidate Starts for Kaleb_46:
(Start: 25 @40816 has 54 MA's), (35, 40774), (46, 40729), (65, 40672), (68, 40663), (69, 40660), (70, 40651), (95, 40564), (99, 40549), (116, 40465), (140, 40372), (148, 40321), (158, 40270), (167, 40231),

Gene: KandZ_42 Start: 35592, Stop: 34711, Start Num: 32
Candidate Starts for KandZ_42:
(Start: 32 @35592 has 22 MA's), (68, 35460), (77, 35424), (84, 35403), (90, 35382), (120, 35238), (124, 35196), (142, 35106), (156, 35034), (175, 34926), (177, 34911), (182, 34860),

Gene: KarasumaRum_47 Start: 41044, Stop: 40259, Start Num: 25
Candidate Starts for KarasumaRum_47:
(6, 41194), (8, 41158), (10, 41128), (16, 41089), (Start: 25 @41044 has 54 MA's), (68, 40882), (74, 40855), (102, 40756), (116, 40681), (140, 40579), (158, 40477), (159, 40471), (161, 40462), (170, 40414),

Gene: KayaCho_39 Start: 38235, Stop: 37462, Start Num: 25
Candidate Starts for KayaCho_39:
(Start: 25 @38235 has 54 MA's), (65, 38085), (74, 38049), (96, 37971), (132, 37812), (139, 37785), (140, 37782), (144, 37761), (158, 37680), (161, 37665), (166, 37647),

Gene: Kheth_46 Start: 40734, Stop: 39940, Start Num: 25

Candidate Starts for Kheth_46:
(Start: 25 @40734 has 54 MA's), (35, 40662), (46, 40617), (65, 40560), (68, 40551), (69, 40548), (70, 40539), (95, 40452), (99, 40437), (116, 40353), (140, 40260), (148, 40209), (158, 40158), (167, 40119),

Gene: Knocker_47 Start: 42121, Stop: 41354, Start Num: 25
Candidate Starts for Knocker_47:
(Start: 25 @42121 has 54 MA's), (60, 41983), (64, 41974), (65, 41968), (72, 41941), (74, 41932), (82, 41908), (132, 41704), (139, 41677), (140, 41674), (144, 41653), (151, 41608), (158, 41572), (167, 41533), (182, 41419), (186, 41380),

Gene: Kolhan_46 Start: 40689, Stop: 39931, Start Num: 25
Candidate Starts for Kolhan_46:
(Start: 25 @40689 has 54 MA's), (46, 40608), (65, 40551), (68, 40542), (69, 40539), (70, 40530), (95, 40443), (99, 40428), (116, 40344), (140, 40251), (148, 40200), (158, 40149), (167, 40110),

Gene: Lambano_41 Start: 39407, Stop: 38679, Start Num: 29
Candidate Starts for Lambano_41:
(Start: 29 @39407 has 28 MA's), (65, 39266), (70, 39245), (74, 39230), (108, 39125), (137, 39005), (140, 38999), (158, 38897), (169, 38852),

Gene: Lars_46 Start: 40806, Stop: 40042, Start Num: 25
Candidate Starts for Lars_46:
(Start: 25 @40806 has 54 MA's), (35, 40764), (46, 40719), (65, 40662), (68, 40653), (69, 40650), (70, 40641), (95, 40554), (99, 40539), (116, 40455), (140, 40362), (148, 40311), (158, 40260), (167, 40221),

Gene: Laurie_45 Start: 40205, Stop: 39441, Start Num: 25
Candidate Starts for Laurie_45:
(Start: 25 @40205 has 54 MA's), (46, 40118), (65, 40061), (68, 40052), (69, 40049), (70, 40040), (95, 39953), (99, 39938), (116, 39854), (148, 39710), (158, 39659), (167, 39620),

Gene: Leopard_54 Start: 40836, Stop: 41540, Start Num: 50
Candidate Starts for Leopard_54:
(Start: 50 @40836 has 3 MA's), (63, 40884), (66, 40893), (67, 40896), (86, 40962), (101, 41019), (112, 41064), (138, 41223), (141, 41235), (143, 41241), (157, 41337), (163, 41358), (174, 41430), (178, 41466), (181, 41490),

Gene: Lephleur_46 Start: 40699, Stop: 39935, Start Num: 25
Candidate Starts for Lephleur_46:
(Start: 25 @40699 has 54 MA's), (46, 40612), (65, 40555), (68, 40546), (69, 40543), (70, 40534), (95, 40447), (99, 40432), (116, 40348), (140, 40255), (148, 40204), (158, 40153), (167, 40114),

Gene: Ligma_40 Start: 34038, Stop: 33349, Start Num: 37
Candidate Starts for Ligma_40:
(22, 34119), (28, 34071), (Start: 37 @34038 has 12 MA's), (79, 33888), (85, 33876), (88, 33867), (144, 33642), (158, 33561), (161, 33546), (170, 33498),

Gene: LilMcDreamy_43 Start: 40014, Stop: 39223, Start Num: 24
Candidate Starts for LilMcDreamy_43:
(Start: 24 @40014 has 2 MA's), (59, 39864), (88, 39765), (100, 39720), (106, 39696), (112, 39675), (117, 39627), (140, 39543), (161, 39426), (170, 39378),

Gene: LilSmirk_46 Start: 40693, Stop: 39929, Start Num: 25
Candidate Starts for LilSmirk_46:
(Start: 25 @40693 has 54 MA's), (46, 40606), (65, 40549), (68, 40540), (69, 40537), (70, 40528), (95, 40441), (99, 40426), (116, 40342), (140, 40249), (148, 40198), (158, 40147), (167, 40108),

Gene: LittleDigger_41 Start: 39429, Stop: 38701, Start Num: 29
Candidate Starts for LittleDigger_41:
(Start: 29 @39429 has 28 MA's), (65, 39288), (70, 39267), (74, 39252), (108, 39147), (137, 39027), (140, 39021), (158, 38919), (169, 38874),

Gene: LittleMinkey_51 Start: 39746, Stop: 38958, Start Num: 25
Candidate Starts for LittleMinkey_51:
(Start: 20 @39776 has 1 MA's), (Start: 25 @39746 has 54 MA's), (45, 39641), (47, 39635), (60, 39593), (65, 39578), (73, 39545), (74, 39542), (82, 39518), (140, 39278), (158, 39173), (167, 39134),

Gene: LittleMunchkin_42 Start: 37302, Stop: 36634, Start Num: 37
Candidate Starts for LittleMunchkin_42:
(27, 37341), (Start: 37 @37302 has 12 MA's), (71, 37188), (111, 37071), (116, 37023), (140, 36948), (146, 36906), (158, 36846), (161, 36831), (170, 36783),

Gene: LizLemon_46 Start: 40815, Stop: 40051, Start Num: 25
Candidate Starts for LizLemon_46:
(Start: 25 @40815 has 54 MA's), (46, 40728), (65, 40671), (68, 40662), (69, 40659), (70, 40650), (95, 40563), (99, 40548), (116, 40464), (140, 40371), (148, 40320), (158, 40269), (167, 40230),

Gene: Lolalove_43 Start: 40432, Stop: 39704, Start Num: 29
Candidate Starts for Lolalove_43:
(Start: 29 @40432 has 28 MA's), (72, 40264), (81, 40234), (82, 40231), (99, 40186), (102, 40174), (137, 40030), (140, 40024), (158, 39922), (169, 39877), (173, 39838), (186, 39730),

Gene: Magpie_41 Start: 40274, Stop: 39540, Start Num: 29
Candidate Starts for Magpie_41:
(Start: 29 @40274 has 28 MA's), (72, 40100), (81, 40070), (99, 40022), (102, 40010), (137, 39866), (140, 39860), (158, 39758), (169, 39713), (173, 39674),

Gene: Mariokart_40 Start: 33941, Stop: 33252, Start Num: 37
Candidate Starts for Mariokart_40:
(Start: 37 @33941 has 12 MA's), (77, 33797), (88, 33770), (108, 33692), (140, 33566), (158, 33464), (161, 33449), (170, 33401), (184, 33287),

Gene: MasterPo_46 Start: 40702, Stop: 39938, Start Num: 25
Candidate Starts for MasterPo_46:
(Start: 25 @40702 has 54 MA's), (35, 40660), (46, 40615), (65, 40558), (68, 40549), (69, 40546), (70, 40537), (95, 40450), (99, 40435), (116, 40351), (140, 40258), (148, 40207), (158, 40156), (167, 40117),

Gene: Minnow_40 Start: 38222, Stop: 37452, Start Num: 25
Candidate Starts for Minnow_40:
(Start: 25 @38222 has 54 MA's), (68, 38066), (69, 38063), (74, 38039), (85, 38006), (140, 37772), (144, 37751), (158, 37670), (161, 37655),

Gene: Mithril_42 Start: 40442, Stop: 39708, Start Num: 29
Candidate Starts for Mithril_42:

(Start: 29 @40442 has 28 MA's), (72, 40268), (81, 40238), (99, 40190), (102, 40178), (137, 40034), (140, 40028), (158, 39926), (169, 39881), (173, 39842), (186, 39734),

Gene: Mopey_42 Start: 35492, Stop: 34611, Start Num: 32
Candidate Starts for Mopey_42:
(Start: 32 @35492 has 22 MA's), (68, 35360), (77, 35324), (84, 35303), (90, 35282), (120, 35138), (124, 35096), (142, 35006), (156, 34934), (175, 34826), (177, 34811), (181, 34763),

Gene: Mudslide_42 Start: 40698, Stop: 39940, Start Num: 29
Candidate Starts for Mudslide_42:
(Start: 29 @40698 has 28 MA's), (41, 40629), (72, 40521), (81, 40491), (99, 40443), (102, 40431), (115, 40386), (134, 40275), (140, 40260), (158, 40158), (169, 40113), (173, 40074), (186, 39966),

Gene: Nanao_41 Start: 39394, Stop: 38666, Start Num: 29
Candidate Starts for Nanao_41:
(Start: 29 @39394 has 28 MA's), (65, 39253), (70, 39232), (74, 39217), (108, 39112), (137, 38992), (140, 38986), (158, 38884), (169, 38839),

Gene: Nangang_45 Start: 40967, Stop: 40182, Start Num: 25
Candidate Starts for Nangang_45:
(3, 41147), (4, 41135), (5, 41129), (9, 41078), (Start: 25 @40967 has 54 MA's), (68, 40805), (74, 40778), (102, 40679), (116, 40604), (140, 40502), (158, 40400), (159, 40394), (161, 40385), (170, 40337),

Gene: Nigel_41 Start: 39313, Stop: 38579, Start Num: 29
Candidate Starts for Nigel_41:
(Start: 29 @39313 has 28 MA's), (55, 39193), (65, 39166), (70, 39145), (71, 39142), (74, 39130), (82, 39106), (108, 39025), (137, 38905), (145, 38866), (158, 38797), (169, 38752),

Gene: Nova_41 Start: 35918, Stop: 35037, Start Num: 32
Candidate Starts for Nova_41:
(Start: 32 @35918 has 22 MA's), (68, 35786), (77, 35750), (84, 35729), (90, 35708), (120, 35564), (124, 35522), (142, 35432), (156, 35360), (175, 35252), (177, 35237), (182, 35186),

Gene: Onyinye_55 Start: 40718, Stop: 41422, Start Num: 50
Candidate Starts for Onyinye_55:
(Start: 50 @40718 has 3 MA's), (63, 40766), (66, 40775), (67, 40778), (86, 40844), (101, 40901), (112, 40946), (138, 41105), (141, 41117), (143, 41123), (157, 41219), (163, 41240), (174, 41312), (177, 41333), (178, 41348), (181, 41372),

Gene: Opia_46 Start: 40688, Stop: 39924, Start Num: 25
Candidate Starts for Opia_46:
(Start: 25 @40688 has 54 MA's), (46, 40601), (65, 40544), (68, 40535), (69, 40532), (70, 40523), (95, 40436), (99, 40421), (116, 40337), (140, 40244), (148, 40193), (158, 40142), (167, 40103),

Gene: PBI1_41 Start: 35423, Stop: 34542, Start Num: 32
Candidate Starts for PBI1_41:
(Start: 32 @35423 has 22 MA's), (68, 35291), (77, 35255), (84, 35234), (90, 35213), (120, 35069), (124, 35027), (142, 34937), (156, 34865), (175, 34757), (177, 34742), (182, 34691),

Gene: PLot_42 Start: 35483, Stop: 34614, Start Num: 32
Candidate Starts for PLot_42:

(Start: 32 @35483 has 22 MA's), (68, 35351), (77, 35315), (90, 35273), (120, 35129), (124, 35087), (142, 34997), (175, 34817), (177, 34802), (181, 34754),

Gene: Penelope2018_42 Start: 35492, Stop: 34611, Start Num: 32
Candidate Starts for Penelope2018_42:
(Start: 32 @35492 has 22 MA's), (68, 35360), (77, 35324), (84, 35303), (90, 35282), (120, 35138), (124, 35096), (142, 35006), (156, 34934), (175, 34826), (177, 34811), (182, 34760),

Gene: PenguinLover67_48 Start: 42106, Stop: 41504, Start Num: 54
Candidate Starts for PenguinLover67_48:
(Start: 54 @42106 has 2 MA's), (86, 42019), (151, 41758), (158, 41722), (161, 41707), (167, 41683), (173, 41638), (180, 41584),

Gene: Phalaborwa_42 Start: 35515, Stop: 34637, Start Num: 32
Candidate Starts for Phalaborwa_42:
(Start: 32 @35515 has 22 MA's), (68, 35383), (73, 35359), (78, 35344), (90, 35305), (107, 35239), (116, 35182), (124, 35119), (142, 35032), (173, 34858), (175, 34852), (177, 34837), (183, 34768),

Gene: Phantasmagoria_46 Start: 40700, Stop: 39936, Start Num: 25
Candidate Starts for Phantasmagoria_46:
(Start: 25 @40700 has 54 MA's), (35, 40658), (46, 40613), (65, 40556), (68, 40547), (69, 40544), (70, 40535), (95, 40448), (99, 40433), (116, 40349), (140, 40256), (148, 40205), (158, 40154), (167, 40115),

Gene: Poster_41 Start: 39395, Stop: 38667, Start Num: 29
Candidate Starts for Poster_41:
(Start: 29 @39395 has 28 MA's), (65, 39254), (70, 39233), (74, 39218), (108, 39113), (137, 38993), (140, 38987), (158, 38885), (169, 38840),

Gene: Prager_42 Start: 35504, Stop: 34623, Start Num: 32
Candidate Starts for Prager_42:
(Start: 32 @35504 has 22 MA's), (68, 35372), (77, 35336), (84, 35315), (90, 35294), (120, 35150), (124, 35108), (142, 35018), (156, 34946), (175, 34838), (177, 34823), (182, 34772),

Gene: Predator_42 Start: 35912, Stop: 36811, Start Num: 24
Candidate Starts for Predator_42:
(Start: 24 @35912 has 2 MA's), (30, 35954), (33, 35987), (52, 36068), (76, 36161), (105, 36269), (116, 36341), (135, 36452), (153, 36545), (154, 36554), (159, 36587), (165, 36608), (170, 36647), (176, 36677), (179, 36725), (185, 36773), (187, 36797),

Gene: Prince_42 Start: 40608, Stop: 39850, Start Num: 29
Candidate Starts for Prince_42:
(Start: 29 @40608 has 28 MA's), (41, 40539), (72, 40431), (81, 40401), (99, 40353), (102, 40341), (115, 40296), (134, 40185), (140, 40170), (158, 40068), (169, 40023), (171, 40002), (173, 39984), (186, 39876),

Gene: PrinceCharming_46 Start: 40808, Stop: 40044, Start Num: 25
Candidate Starts for PrinceCharming_46:
(Start: 25 @40808 has 54 MA's), (35, 40766), (46, 40721), (65, 40664), (68, 40655), (69, 40652), (70, 40643), (93, 40562), (95, 40556), (99, 40541), (116, 40457), (140, 40364), (148, 40313), (158, 40262), (167, 40223),

Gene: Pupper_52 Start: 17408, Stop: 18166, Start Num: 40

Candidate Starts for Pupper_52:
(Start: 40 @17408 has 3 MA's), (121, 17729), (155, 17909), (164, 17957), (172, 18005),

Gene: QueenPie_41 Start: 40519, Stop: 39791, Start Num: 29
Candidate Starts for QueenPie_41:
(Start: 29 @40519 has 28 MA's), (65, 40378), (70, 40357), (74, 40342), (108, 40237), (120, 40171), (137, 40117), (140, 40111), (158, 40009), (169, 39964), (173, 39925),

Gene: Quesadilla_48 Start: 42077, Stop: 41490, Start Num: 54
Candidate Starts for Quesadilla_48:
(Start: 54 @42077 has 2 MA's), (86, 41996), (87, 41993), (104, 41948), (151, 41744), (158, 41708), (161, 41693), (167, 41669),

Gene: RawrgerThat_43 Start: 40453, Stop: 39695, Start Num: 29
Candidate Starts for RawrgerThat_43:
(Start: 29 @40453 has 28 MA's), (41, 40384), (72, 40276), (81, 40246), (99, 40198), (102, 40186), (115, 40141), (134, 40030), (140, 40015), (158, 39913), (169, 39868), (173, 39829), (186, 39721),

Gene: Reccee_46 Start: 41085, Stop: 40300, Start Num: 25
Candidate Starts for Reccee_46:
(Start: 25 @41085 has 54 MA's), (46, 40998), (68, 40923), (74, 40896), (102, 40797), (158, 40518), (161, 40503),

Gene: RedWattleHog_178 Start: 112519, Stop: 113199, Start Num: 39
Candidate Starts for RedWattleHog_178:
(Start: 39 @112519 has 2 MA's), (75, 112642), (108, 112747), (120, 112819), (150, 112945), (170, 113047),

Gene: Renkei_41 Start: 39429, Stop: 38701, Start Num: 29
Candidate Starts for Renkei_41:
(Start: 29 @39429 has 28 MA's), (65, 39288), (70, 39267), (74, 39252), (108, 39147), (137, 39027), (140, 39021), (158, 38919), (169, 38874),

Gene: Rhinoforte_46 Start: 40821, Stop: 40045, Start Num: 25
Candidate Starts for Rhinoforte_46:
(Start: 25 @40821 has 54 MA's), (35, 40767), (46, 40722), (65, 40665), (68, 40656), (69, 40653), (70, 40644), (95, 40557), (99, 40542), (116, 40458), (140, 40365), (148, 40314), (158, 40263), (167, 40224),

Gene: Rich_44 Start: 40775, Stop: 39990, Start Num: 25
Candidate Starts for Rich_44:
(Start: 25 @40775 has 54 MA's), (55, 40652), (68, 40613), (74, 40586), (102, 40487), (116, 40412), (128, 40361), (140, 40310), (158, 40208), (159, 40202), (161, 40193),

Gene: Rinkes_46 Start: 41695, Stop: 40898, Start Num: 20
Candidate Starts for Rinkes_46:
(Start: 20 @41695 has 1 MA's), (23, 41677), (Start: 25 @41665 has 54 MA's), (65, 41509), (74, 41473), (102, 41374), (151, 41152), (158, 41116), (162, 41098), (167, 41077), (180, 40978),

Gene: Rita130_46 Start: 40905, Stop: 40120, Start Num: 25
Candidate Starts for Rita130_46:
(Start: 25 @40905 has 54 MA's), (46, 40818), (68, 40743), (74, 40716), (102, 40617), (158, 40338), (161, 40323),

Gene: Rosebush_45 Start: 40816, Stop: 40052, Start Num: 25
Candidate Starts for Rosebush_45:
(Start: 25 @40816 has 54 MA's), (46, 40729), (65, 40672), (68, 40663), (69, 40660), (70, 40651), (95, 40564), (99, 40549), (116, 40465), (140, 40372), (148, 40321), (158, 40270), (167, 40231),

Gene: SCentae_52 Start: 17425, Stop: 18183, Start Num: 40
Candidate Starts for SCentae_52:
(Start: 40 @17425 has 3 MA's), (98, 17620), (121, 17746), (155, 17926), (164, 17974), (172, 18022),

Gene: Sabella_45 Start: 40693, Stop: 39929, Start Num: 25
Candidate Starts for Sabella_45:
(Start: 25 @40693 has 54 MA's), (46, 40606), (65, 40549), (68, 40540), (69, 40537), (70, 40528), (95, 40441), (99, 40426), (116, 40342), (140, 40249), (148, 40198), (158, 40147), (167, 40108),

Gene: Serendipitous_45 Start: 40717, Stop: 39950, Start Num: 25
Candidate Starts for Serendipitous_45:
(4, 40885), (5, 40879), (7, 40834), (9, 40828), (Start: 25 @40717 has 54 MA's), (68, 40555), (74, 40528), (102, 40429), (116, 40354), (125, 40315), (158, 40168), (159, 40162), (161, 40153), (170, 40105),

Gene: Shatter_40 Start: 34038, Stop: 33349, Start Num: 37
Candidate Starts for Shatter_40:
(22, 34119), (28, 34071), (Start: 37 @34038 has 12 MA's), (79, 33888), (85, 33876), (88, 33867), (144, 33642), (158, 33561), (161, 33546), (170, 33498),

Gene: Shenyu_45 Start: 40967, Stop: 40182, Start Num: 25
Candidate Starts for Shenyu_45:
(3, 41147), (4, 41135), (5, 41129), (9, 41078), (Start: 25 @40967 has 54 MA's), (68, 40805), (74, 40778), (102, 40679), (116, 40604), (140, 40502), (158, 40400), (159, 40394), (161, 40385), (170, 40337),

Gene: SirHarley_41 Start: 35427, Stop: 34543, Start Num: 32
Candidate Starts for SirHarley_41:
(Start: 32 @35427 has 22 MA's), (60, 35322), (68, 35295), (77, 35259), (84, 35238), (90, 35217), (120, 35073), (124, 35031), (142, 34941), (156, 34869), (175, 34758), (177, 34743), (182, 34692),

Gene: SirJeffery_46 Start: 40904, Stop: 40119, Start Num: 25
Candidate Starts for SirJeffery_46:
(Start: 25 @40904 has 54 MA's), (46, 40817), (68, 40742), (74, 40715), (102, 40616), (158, 40337), (161, 40322),

Gene: Sisko_40 Start: 34816, Stop: 34106, Start Num: 37
Candidate Starts for Sisko_40:
(Start: 37 @34816 has 12 MA's), (97, 34618), (116, 34525), (140, 34420), (158, 34318), (161, 34303), (170, 34255),

Gene: Sour_45 Start: 38694, Stop: 38008, Start Num: 37
Candidate Starts for Sour_45:
(28, 38730), (Start: 37 @38694 has 12 MA's), (97, 38487), (116, 38394), (140, 38322), (161, 38205), (184, 38043),

Gene: Stinger_41 Start: 39003, Stop: 38269, Start Num: 29

Candidate Starts for Stinger_41:
(Start: 29 @39003 has 28 MA's), (55, 38883), (65, 38856), (70, 38835), (74, 38820), (81, 38799), (82, 38796), (137, 38595), (140, 38589), (158, 38487), (169, 38442),

Gene: StinkyVeggy_47 Start: 41044, Stop: 40259, Start Num: 25
Candidate Starts for StinkyVeggy_47:
(6, 41194), (8, 41158), (10, 41128), (16, 41089), (Start: 25 @41044 has 54 MA's), (68, 40882), (74, 40855), (102, 40756), (116, 40681), (140, 40579), (158, 40477), (159, 40471), (161, 40462), (170, 40414),

Gene: Stormageddon_179 Start: 113484, Stop: 114164, Start Num: 39
Candidate Starts for Stormageddon_179:
(Start: 39 @113484 has 2 MA's), (75, 113607), (108, 113712), (120, 113784), (150, 113910), (170, 114012),

Gene: Suigeneris_46 Start: 40907, Stop: 40122, Start Num: 25
Candidate Starts for Suigeneris_46:
(Start: 25 @40907 has 54 MA's), (46, 40820), (68, 40745), (74, 40718), (102, 40619), (158, 40340), (161, 40325),

Gene: SuperheroCarly_42 Start: 35354, Stop: 34473, Start Num: 32
Candidate Starts for SuperheroCarly_42:
(Start: 32 @35354 has 22 MA's), (68, 35222), (77, 35186), (84, 35165), (90, 35144), (120, 35000), (124, 34958), (142, 34868), (156, 34796), (175, 34688), (177, 34673), (182, 34622),

Gene: TA17A_47 Start: 40683, Stop: 39919, Start Num: 25
Candidate Starts for TA17A_47:
(Start: 25 @40683 has 54 MA's), (35, 40641), (46, 40596), (65, 40539), (68, 40530), (69, 40527), (70, 40518), (95, 40431), (99, 40416), (116, 40332), (140, 40239), (148, 40188), (158, 40137), (167, 40098),

Gene: TPA2_53 Start: 40141, Stop: 39410, Start Num: 36
Candidate Starts for TPA2_53:
(36, 40141), (38, 40132), (47, 40096), (49, 40087), (92, 39925), (109, 39859), (130, 39742), (133, 39727), (151, 39652), (152, 39649), (171, 39556),

Gene: Thonko_45 Start: 38227, Stop: 37415, Start Num: 29
Candidate Starts for Thonko_45:
(26, 38251), (Start: 29 @38227 has 28 MA's), (31, 38212), (45, 38143), (47, 38137), (71, 38041), (76, 38023), (99, 37951), (114, 37897), (140, 37735), (182, 37480),

Gene: Thoth_42 Start: 35489, Stop: 34608, Start Num: 32
Candidate Starts for Thoth_42:
(Start: 32 @35489 has 22 MA's), (68, 35357), (77, 35321), (84, 35300), (90, 35279), (120, 35135), (124, 35093), (142, 35003), (156, 34931), (175, 34823), (177, 34808), (182, 34757),

Gene: Tinciduntsolum_47 Start: 40827, Stop: 40057, Start Num: 25
Candidate Starts for Tinciduntsolum_47:
(Start: 25 @40827 has 54 MA's), (46, 40734), (65, 40677), (68, 40668), (69, 40665), (70, 40656), (95, 40569), (99, 40554), (116, 40470), (140, 40377), (148, 40326), (158, 40275), (167, 40236),

Gene: Tres_46 Start: 40696, Stop: 39932, Start Num: 25
Candidate Starts for Tres_46:

(Start: 25 @40696 has 54 MA's), (46, 40609), (65, 40552), (68, 40543), (69, 40540), (70, 40531), (95, 40444), (99, 40429), (116, 40345), (140, 40252), (148, 40201), (158, 40150), (167, 40111),

Gene: Trine_54 Start: 39655, Stop: 38969, Start Num: 43
Candidate Starts for Trine_54:
(11, 39847), (19, 39799), (Start: 40 @39667 has 3 MA's), (Start: 43 @39655 has 1 MA's), (44, 39652), (61, 39583), (80, 39514), (98, 39448), (102, 39433), (110, 39394), (111, 39391), (126, 39310), (148, 39235), (151, 39220), (187, 38980),

Gene: Troll4_42 Start: 35493, Stop: 34612, Start Num: 32
Candidate Starts for Troll4_42:
(Start: 32 @35493 has 22 MA's), (68, 35361), (77, 35325), (84, 35304), (90, 35283), (120, 35139), (124, 35097), (142, 35007), (175, 34827), (177, 34812), (181, 34764),

Gene: Vic9_00045 Start: 41205, Stop: 40438, Start Num: 25
Candidate Starts for Vic9_00045:
(Start: 25 @41205 has 54 MA's), (46, 41115), (65, 41058), (68, 41049), (69, 41046), (70, 41037), (95, 40950), (99, 40935), (116, 40851), (148, 40707), (158, 40656), (167, 40617),

Gene: VioletZ_44 Start: 40524, Stop: 39766, Start Num: 29
Candidate Starts for VioletZ_44:
(Start: 29 @40524 has 28 MA's), (41, 40455), (72, 40347), (81, 40317), (99, 40269), (102, 40257), (115, 40212), (134, 40101), (140, 40086), (158, 39984), (169, 39939), (171, 39918), (173, 39900), (186, 39792),

Gene: Visconti_42 Start: 35502, Stop: 34621, Start Num: 32
Candidate Starts for Visconti_42:
(Start: 32 @35502 has 22 MA's), (68, 35370), (77, 35334), (84, 35313), (90, 35292), (120, 35148), (124, 35106), (142, 35016), (175, 34836), (177, 34821), (181, 34773),

Gene: WaldoWhy_43 Start: 35498, Stop: 34617, Start Num: 32
Candidate Starts for WaldoWhy_43:
(Start: 32 @35498 has 22 MA's), (68, 35366), (77, 35330), (90, 35288), (120, 35144), (124, 35102), (142, 35012), (175, 34832), (177, 34817), (182, 34766),

Gene: Waleliano_42 Start: 40448, Stop: 39693, Start Num: 29
Candidate Starts for Waleliano_42:
(Start: 29 @40448 has 28 MA's), (41, 40382), (72, 40274), (81, 40244), (99, 40196), (102, 40184), (134, 40028), (140, 40013), (145, 39980), (158, 39911), (169, 39866), (173, 39827), (186, 39719),

Gene: West99_46 Start: 40816, Stop: 40052, Start Num: 25
Candidate Starts for West99_46:
(Start: 25 @40816 has 54 MA's), (46, 40729), (65, 40672), (68, 40663), (69, 40660), (70, 40651), (95, 40564), (99, 40549), (116, 40465), (140, 40372), (148, 40321), (158, 40270), (167, 40231),

Gene: WorMMAs_53 Start: 37479, Stop: 36835, Start Num: 58
Candidate Starts for WorMMAs_53:
(15, 37683), (Start: 40 @37551 has 3 MA's), (58, 37479), (74, 37425), (102, 37326), (110, 37287), (147, 37113), (151, 37089), (161, 37038), (173, 36969), (182, 36900), (187, 36846),

Gene: Xincheng_41 Start: 39884, Stop: 39150, Start Num: 29
Candidate Starts for Xincheng_41:

(Start: 29 @39884 has 28 MA's), (72, 39710), (81, 39680), (99, 39632), (102, 39620), (120, 39530), (137, 39476), (140, 39470), (158, 39368), (169, 39323), (173, 39284),

Gene: Yago84_40 Start: 34890, Stop: 34180, Start Num: 37
Candidate Starts for Yago84_40:
(Start: 37 @34890 has 12 MA's), (97, 34692), (116, 34599), (140, 34494), (158, 34392), (161, 34377), (170, 34329),

Gene: Zemanar_43 Start: 40424, Stop: 39696, Start Num: 29
Candidate Starts for Zemanar_43:
(Start: 29 @40424 has 28 MA's), (72, 40256), (81, 40226), (82, 40223), (99, 40178), (102, 40166), (137, 40022), (140, 40016), (158, 39914), (169, 39869), (173, 39830), (186, 39722),

Gene: Zenteno07_50 Start: 39868, Stop: 39071, Start Num: 25
Candidate Starts for Zenteno07_50:
(Start: 20 @39898 has 1 MA's), (Start: 25 @39868 has 54 MA's), (45, 39763), (47, 39757), (65, 39694), (73, 39661), (74, 39658), (82, 39634), (120, 39448), (140, 39391), (158, 39286), (167, 39247),