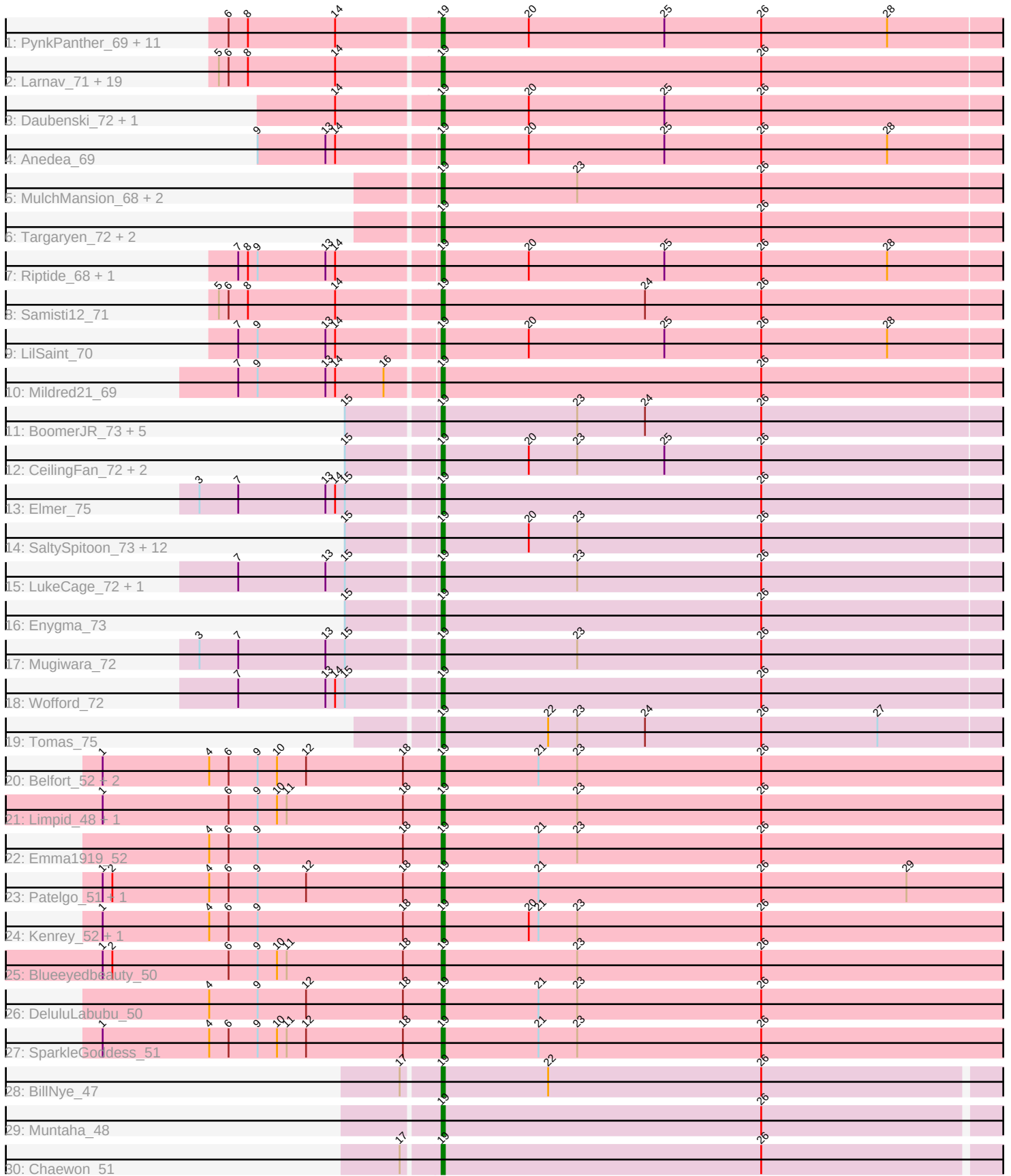


Pham 326888



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 326888 Report

This analysis was run 09/05/26 on database version 662.

Pham number 326888 has 91 members, 3 are drafts.

Phages represented in each track:

- Track 1 : PynkPanther_69, Paradiddles_67, FreddyDRoo_69, Braelyn_70, Persimmon_67, Squillum_70, Navo_69, Bartholomune_69, Davielle_68, PinkiePie_69, Liandry_70, WhereRU_68
- Track 2 : Larnav_71, WashU_71, EGole_72, Cursive_69, HangryHippo_71, Coogler_71, Watermoore_71, BlueOtter_71, Tribute_69, PacManQ_70, Leo04_72, Deutsch_71, ArianaSWT_74, Scheme_72, Cross_71, Pepperwood_71, Sushi23_71, Lululemon_70, Peebs_70, Shuckle_69
- Track 3 : Daubenski_72, Cadmus_69
- Track 4 : Anedea_69
- Track 5 : MulchMansion_68, LilMartin_68, Angela_68
- Track 6 : Targaryen_72, Evy_72, Warpy_75
- Track 7 : Riptide_68, Bmoc_69
- Track 8 : Samisti12_71
- Track 9 : LilSaint_70
- Track 10 : Mildred21_69
- Track 11 : BoomerJR_73, AngryGiraffe_72, Stanimal_73, Sollertia_73, Genie2_73, Yaboi_73
- Track 12 : CeilingFan_72, IchabodCrane_70, Brizzy_72
- Track 13 : Elmer_75
- Track 14 : SaltySpitoon_73, Spelly_73, TomSawyer_71, Spilled_74, Daisy123_77, KentuckyRacer_73, JimJam_73, PumpkinSpice_72, AcciDwight_77, Rikishi_73, Jollison_72, MindFlayer_71, Wipeout_71
- Track 15 : LukeCage_72, StarPlatinum_73
- Track 16 : Enygma_73
- Track 17 : Mugiwara_72
- Track 18 : Wofford_72
- Track 19 : Tomas_75
- Track 20 : Belfort_52, Westy_51, Comrade_51
- Track 21 : Limpid_48, Annadreamey_48
- Track 22 : Emma1919_52
- Track 23 : Patelgo_51, Moab_51
- Track 24 : Kenrey_52, Phredrick_50
- Track 25 : Blueeyedbeauty_50
- Track 26 : DeluluLabubu_50
- Track 27 : SparkleGoddess_51
- Track 28 : BillNye_47
- Track 29 : Muntaha_48

- Track 30 : Chaewon_51

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

The start number called the most often in the published annotations is 19, it was called in 88 of the 88 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AcciDwight_77, Anedea_69, Angela_68, AngryGiraffe_72, Annadreamy_48, ArianaSWT_74, Bartholomune_69, Belfort_52, BillNye_47, BlueOtter_71, Blueeyedbeauty_50, Bmoc_69, BoomerJR_73, Braelyn_70, Brizzy_72, Cadmus_69, CeilingFan_72, Chaewon_51, Comrade_51, Coogler_71, Cross_71, Cursive_69, Daisy123_77, Daubenski_72, Davielle_68, DeluluLabubu_50, EGole_72, Elmer_75, Emma1919_52, Enygma_73, Evy_72, FreddyDRoo_69, Genie2_73, HangryHippo_71, IchabodCrane_70, JimJam_73, Jollison_72, Kenrey_52, KentuckyRacer_73, Larnav_71, Leo04_72, Liandry_70, LilMartin_68, LilSaint_70, Limpid_48, LukeCage_72, Lululemon_70, Mildred21_69, MindFlayer_71, Moab_51, Mugiwara_72, MulchMansion_68, Muntaha_48, Navo_69, PacManQ_70, Paradiddles_67, Patelgo_51, Peebs_70, Pepperwood_71, Persimmon_67, Phredrick_50, PinkiePie_69, PumpkinSpice_72, PynkPanther_69, Rikishi_73, Riptide_68, SaltySpittoon_73, Samisti12_71, Scheme_72, Shuckle_69, Sollertia_73, SparkleGoddess_51, Spelly_73, Spilled_74, Squillium_70, Stanimal_73, StarPlatinum_73, Sushi23_71, Targaryen_72, Teutsch_71, TomSawyer_71, Tomas_75, Tribute_69, Warpy_75, WashU_71, Watermoore_71, Westy_51, WhereRU_68, Wipeout_71, Wofford_72, Yaboi_73,

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

-

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

-

Summary by start number:

Start 19:

- Found in 91 of 91 (100.0%) of genes in pham
- Manual Annotations of this start: 88 of 88
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AcciDwight_77 (BE2), Anedea_69 (BE1), Angela_68 (BE1), AngryGiraffe_72 (BE2), Annadreamy_48 (BK1), ArianaSWT_74 (BE1), Bartholomune_69 (BE1), Belfort_52 (BK1), BillNye_47 (BK2), BlueOtter_71 (BE1), Blueeyedbeauty_50 (BK1), Bmoc_69 (BE1), BoomerJR_73 (BE2), Braelyn_70 (BE1), Brizzy_72 (BE2), Cadmus_69 (BE1), CeilingFan_72 (BE2), Chaewon_51 (BK2), Comrade_51 (BK1), Coogler_71 (BE1), Cross_71 (BE1), Cursive_69 (BE1), Daisy123_77 (BE2), Daubenski_72 (BE1), Davielle_68 (BE1), DeluluLabubu_50 (BK1), EGole_72 (BE1), Elmer_75 (BE2), Emma1919_52 (BK1), Enygma_73 (BE2), Evy_72 (BE1), FreddyDRoo_69 (BE1), Genie2_73 (BE2), HangryHippo_71 (BE1), IchabodCrane_70 (BE2), JimJam_73 (BE2), Jollison_72 (BE2), Kenrey_52 (BK1), KentuckyRacer_73 (BE2), Larnav_71 (BE1), Leo04_72 (BE1), Liandry_70 (BE1), LilMartin_68 (BE1), LilSaint_70 (BE1), Limpid_48 (BK1),

LukeCage_72 (BE2), Lululemon_70 (BE1), Mildred21_69 (BE1), MindFlayer_71 (BE2), Moab_51 (BK1), Mugiwara_72 (BE2), MulchMansion_68 (BE1), Muntaha_48 (BK2), Navo_69 (BE1), PacManQ_70 (BE1), Paradiddles_67 (BE1), Patelgo_51 (BK1), Peebs_70 (BE1), Pepperwood_71 (BE1), Persimmon_67 (BE1), Phredrick_50 (BK1), PinkiePie_69 (BE1), PumpkinSpice_72 (BE2), PynkPanther_69 (BE1), Rikishi_73 (BE2), Riptide_68 (BE1), SaltySpittoon_73 (BE2), Samisti12_71 (BE1), Scheme_72 (BE1), Shuckle_69 (BE1), Sollertia_73 (BE2), SparkleGoddess_51 (BK1), Spelly_73 (BE2), Spilled_74 (BE2), Squillium_70 (BE1), Stanimal_73 (BE2), StarPlatinum_73 (BE2), Sushi23_71 (BE1), Targaryen_72 (BE1), Teutsch_71 (BE1), TomSawyer_71 (BE2), Tomas_75 (BE2), Tribute_69 (BE1), Warpy_75 (BE1), WashU_71 (BE1), Watermoore_71 (BE1), Westy_51 (BK1), WhereRU_68 (BE1), Wipeout_71 (BE2), Wofford_72 (BE2), Yaboi_73 (BE2),

Summary by clusters:

There are 4 clusters represented in this pham: BE2, BE1, BK1, BK2,

Info for manual annotations of cluster BE1:

- Start number 19 was manually annotated 45 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 19 was manually annotated 27 times for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 19 was manually annotated 13 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 19 was manually annotated 3 times for cluster BK2.

Gene Information:

Gene: AcciDwight_77 Start: 53322, Stop: 53501, Start Num: 19

Candidate Starts for AcciDwight_77:

(15, 53295), (Start: 19 @53322 has 88 MA's), (20, 53349), (23, 53364), (26, 53421),

Gene: Anedea_69 Start: 52939, Stop: 53118, Start Num: 19

Candidate Starts for Anedea_69:

(9, 52885), (13, 52906), (14, 52909), (Start: 19 @52939 has 88 MA's), (20, 52966), (25, 53008), (26, 53038), (28, 53077),

Gene: Angela_68 Start: 52399, Stop: 52578, Start Num: 19

Candidate Starts for Angela_68:

(Start: 19 @52399 has 88 MA's), (23, 52441), (26, 52498),

Gene: AngryGiraffe_72 Start: 53330, Stop: 53509, Start Num: 19

Candidate Starts for AngryGiraffe_72:

(15, 53303), (Start: 19 @53330 has 88 MA's), (23, 53372), (24, 53393), (26, 53429),

Gene: Annadreamy_48 Start: 42410, Stop: 42601, Start Num: 19

Candidate Starts for Annadreamy_48:

(1, 42305), (6, 42344), (9, 42353), (10, 42359), (11, 42362), (18, 42398), (Start: 19 @42410 has 88 MA's), (23, 42452), (26, 42509),

Gene: ArianaSWT_74 Start: 54102, Stop: 54281, Start Num: 19

Candidate Starts for ArianaSWT_74:

(5, 54039), (6, 54042), (8, 54048), (14, 54075), (Start: 19 @54102 has 88 MA's), (26, 54201),

Gene: Bartholomune_69 Start: 52765, Stop: 52944, Start Num: 19

Candidate Starts for Bartholomune_69:

(6, 52705), (8, 52711), (14, 52738), (Start: 19 @52765 has 88 MA's), (20, 52792), (25, 52834), (26, 52864), (28, 52903),

Gene: Belfort_52 Start: 44931, Stop: 45122, Start Num: 19

Candidate Starts for Belfort_52:

(1, 44826), (4, 44859), (6, 44865), (9, 44874), (10, 44880), (12, 44889), (18, 44919), (Start: 19 @44931 has 88 MA's), (21, 44961), (23, 44973), (26, 45030),

Gene: BillNye_47 Start: 46338, Stop: 46523, Start Num: 19

Candidate Starts for BillNye_47:

(17, 46329), (Start: 19 @46338 has 88 MA's), (22, 46371), (26, 46437),

Gene: BlueOtter_71 Start: 54139, Stop: 54318, Start Num: 19

Candidate Starts for BlueOtter_71:

(5, 54076), (6, 54079), (8, 54085), (14, 54112), (Start: 19 @54139 has 88 MA's), (26, 54238),

Gene: Blueeyedbeauty_50 Start: 42922, Stop: 43113, Start Num: 19

Candidate Starts for Blueeyedbeauty_50:

(1, 42817), (2, 42820), (6, 42856), (9, 42865), (10, 42871), (11, 42874), (18, 42910), (Start: 19 @42922 has 88 MA's), (23, 42964), (26, 43021),

Gene: Bmoc_69 Start: 52743, Stop: 52922, Start Num: 19

Candidate Starts for Bmoc_69:

(7, 52683), (8, 52686), (9, 52689), (13, 52710), (14, 52713), (Start: 19 @52743 has 88 MA's), (20, 52770), (25, 52812), (26, 52842), (28, 52881),

Gene: BoomerJR_73 Start: 53219, Stop: 53398, Start Num: 19

Candidate Starts for BoomerJR_73:

(15, 53192), (Start: 19 @53219 has 88 MA's), (23, 53261), (24, 53282), (26, 53318),

Gene: Braelyn_70 Start: 53532, Stop: 53711, Start Num: 19

Candidate Starts for Braelyn_70:

(6, 53472), (8, 53478), (14, 53505), (Start: 19 @53532 has 88 MA's), (20, 53559), (25, 53601), (26, 53631), (28, 53670),

Gene: Brizzy_72 Start: 53015, Stop: 53194, Start Num: 19

Candidate Starts for Brizzy_72:

(15, 52988), (Start: 19 @53015 has 88 MA's), (20, 53042), (23, 53057), (25, 53084), (26, 53114),

Gene: Cadmus_69 Start: 53149, Stop: 53328, Start Num: 19

Candidate Starts for Cadmus_69:

(14, 53122), (Start: 19 @53149 has 88 MA's), (20, 53176), (25, 53218), (26, 53248),

Gene: CeilingFan_72 Start: 53256, Stop: 53435, Start Num: 19

Candidate Starts for CeilingFan_72:

(15, 53229), (Start: 19 @53256 has 88 MA's), (20, 53283), (23, 53298), (25, 53325), (26, 53355),

Gene: Chaewon_51 Start: 46478, Stop: 46663, Start Num: 19

Candidate Starts for Chaewon_51:

(17, 46469), (Start: 19 @46478 has 88 MA's), (26, 46577),

Gene: Comrade_51 Start: 44547, Stop: 44738, Start Num: 19

Candidate Starts for Comrade_51:

(1, 44442), (4, 44475), (6, 44481), (9, 44490), (10, 44496), (12, 44505), (18, 44535), (Start: 19 @44547 has 88 MA's), (21, 44577), (23, 44589), (26, 44646),

Gene: Coogler_71 Start: 54165, Stop: 54344, Start Num: 19

Candidate Starts for Coogler_71:

(5, 54102), (6, 54105), (8, 54111), (14, 54138), (Start: 19 @54165 has 88 MA's), (26, 54264),

Gene: Cross_71 Start: 54140, Stop: 54319, Start Num: 19

Candidate Starts for Cross_71:

(5, 54077), (6, 54080), (8, 54086), (14, 54113), (Start: 19 @54140 has 88 MA's), (26, 54239),

Gene: Cursive_69 Start: 53665, Stop: 53844, Start Num: 19

Candidate Starts for Cursive_69:

(5, 53602), (6, 53605), (8, 53611), (14, 53638), (Start: 19 @53665 has 88 MA's), (26, 53764),

Gene: Daisy123_77 Start: 53115, Stop: 53294, Start Num: 19

Candidate Starts for Daisy123_77:

(15, 53088), (Start: 19 @53115 has 88 MA's), (20, 53142), (23, 53157), (26, 53214),

Gene: Daubenski_72 Start: 53913, Stop: 54092, Start Num: 19

Candidate Starts for Daubenski_72:

(14, 53886), (Start: 19 @53913 has 88 MA's), (20, 53940), (25, 53982), (26, 54012),

Gene: Davielle_68 Start: 52952, Stop: 53131, Start Num: 19

Candidate Starts for Davielle_68:

(6, 52892), (8, 52898), (14, 52925), (Start: 19 @52952 has 88 MA's), (20, 52979), (25, 53021), (26, 53051), (28, 53090),

Gene: DeluluLabubu_50 Start: 42661, Stop: 42852, Start Num: 19

Candidate Starts for DeluluLabubu_50:

(4, 42589), (9, 42604), (12, 42619), (18, 42649), (Start: 19 @42661 has 88 MA's), (21, 42691), (23, 42703), (26, 42760),

Gene: EGole_72 Start: 55086, Stop: 55265, Start Num: 19

Candidate Starts for EGole_72:

(5, 55023), (6, 55026), (8, 55032), (14, 55059), (Start: 19 @55086 has 88 MA's), (26, 55185),

Gene: Elmer_75 Start: 54434, Stop: 54613, Start Num: 19

Candidate Starts for Elmer_75:

(3, 54362), (7, 54374), (13, 54401), (14, 54404), (15, 54407), (Start: 19 @54434 has 88 MA's), (26, 54533),

Gene: Emma1919_52 Start: 43344, Stop: 43535, Start Num: 19

Candidate Starts for Emma1919_52:

(4, 43272), (6, 43278), (9, 43287), (18, 43332), (Start: 19 @43344 has 88 MA's), (21, 43374), (23, 43386), (26, 43443),

Gene: Enygma_73 Start: 55159, Stop: 55338, Start Num: 19

Candidate Starts for Enygma_73:

(15, 55132), (Start: 19 @55159 has 88 MA's), (26, 55258),

Gene: Evy_72 Start: 54034, Stop: 54213, Start Num: 19

Candidate Starts for Evy_72:

(Start: 19 @54034 has 88 MA's), (26, 54133),

Gene: FreddyDRoo_69 Start: 52807, Stop: 52986, Start Num: 19

Candidate Starts for FreddyDRoo_69:

(6, 52747), (8, 52753), (14, 52780), (Start: 19 @52807 has 88 MA's), (20, 52834), (25, 52876), (26, 52906), (28, 52945),

Gene: Genie2_73 Start: 53333, Stop: 53512, Start Num: 19

Candidate Starts for Genie2_73:

(15, 53306), (Start: 19 @53333 has 88 MA's), (23, 53375), (24, 53396), (26, 53432),

Gene: HangryHippo_71 Start: 54139, Stop: 54318, Start Num: 19

Candidate Starts for HangryHippo_71:

(5, 54076), (6, 54079), (8, 54085), (14, 54112), (Start: 19 @54139 has 88 MA's), (26, 54238),

Gene: IchabodCrane_70 Start: 53068, Stop: 53247, Start Num: 19

Candidate Starts for IchabodCrane_70:

(15, 53041), (Start: 19 @53068 has 88 MA's), (20, 53095), (23, 53110), (25, 53137), (26, 53167),

Gene: JimJam_73 Start: 53442, Stop: 53621, Start Num: 19

Candidate Starts for JimJam_73:

(15, 53415), (Start: 19 @53442 has 88 MA's), (20, 53469), (23, 53484), (26, 53541),

Gene: Jollison_72 Start: 53324, Stop: 53503, Start Num: 19

Candidate Starts for Jollison_72:

(15, 53297), (Start: 19 @53324 has 88 MA's), (20, 53351), (23, 53366), (26, 53423),

Gene: Kenrey_52 Start: 43492, Stop: 43683, Start Num: 19

Candidate Starts for Kenrey_52:

(1, 43387), (4, 43420), (6, 43426), (9, 43435), (18, 43480), (Start: 19 @43492 has 88 MA's), (20, 43519), (21, 43522), (23, 43534), (26, 43591),

Gene: KentuckyRacer_73 Start: 53257, Stop: 53436, Start Num: 19

Candidate Starts for KentuckyRacer_73:

(15, 53230), (Start: 19 @53257 has 88 MA's), (20, 53284), (23, 53299), (26, 53356),

Gene: Larnav_71 Start: 54124, Stop: 54303, Start Num: 19

Candidate Starts for Larnav_71:

(5, 54061), (6, 54064), (8, 54070), (14, 54097), (Start: 19 @54124 has 88 MA's), (26, 54223),

Gene: Leo04_72 Start: 54639, Stop: 54818, Start Num: 19

Candidate Starts for Leo04_72:

(5, 54576), (6, 54579), (8, 54585), (14, 54612), (Start: 19 @54639 has 88 MA's), (26, 54738),

Gene: Liandry_70 Start: 53514, Stop: 53693, Start Num: 19

Candidate Starts for Liandry_70:

(6, 53454), (8, 53460), (14, 53487), (Start: 19 @53514 has 88 MA's), (20, 53541), (25, 53583), (26, 53613), (28, 53652),

Gene: LilMartin_68 Start: 52347, Stop: 52526, Start Num: 19

Candidate Starts for LilMartin_68:

(Start: 19 @52347 has 88 MA's), (23, 52389), (26, 52446),

Gene: LilSaint_70 Start: 52611, Stop: 52790, Start Num: 19

Candidate Starts for LilSaint_70:

(7, 52551), (9, 52557), (13, 52578), (14, 52581), (Start: 19 @52611 has 88 MA's), (20, 52638), (25, 52680), (26, 52710), (28, 52749),

Gene: Limpid_48 Start: 42409, Stop: 42600, Start Num: 19

Candidate Starts for Limpid_48:

(1, 42304), (6, 42343), (9, 42352), (10, 42358), (11, 42361), (18, 42397), (Start: 19 @42409 has 88 MA's), (23, 42451), (26, 42508),

Gene: LukeCage_72 Start: 53227, Stop: 53406, Start Num: 19

Candidate Starts for LukeCage_72:

(7, 53167), (13, 53194), (15, 53200), (Start: 19 @53227 has 88 MA's), (23, 53269), (26, 53326),

Gene: Lululemon_70 Start: 53520, Stop: 53699, Start Num: 19

Candidate Starts for Lululemon_70:

(5, 53457), (6, 53460), (8, 53466), (14, 53493), (Start: 19 @53520 has 88 MA's), (26, 53619),

Gene: Mildred21_69 Start: 52544, Stop: 52723, Start Num: 19

Candidate Starts for Mildred21_69:

(7, 52484), (9, 52490), (13, 52511), (14, 52514), (16, 52529), (Start: 19 @52544 has 88 MA's), (26, 52643),

Gene: MindPlayer_71 Start: 52975, Stop: 53154, Start Num: 19

Candidate Starts for MindPlayer_71:

(15, 52948), (Start: 19 @52975 has 88 MA's), (20, 53002), (23, 53017), (26, 53074),

Gene: Moab_51 Start: 44517, Stop: 44708, Start Num: 19

Candidate Starts for Moab_51:

(1, 44412), (2, 44415), (4, 44445), (6, 44451), (9, 44460), (12, 44475), (18, 44505), (Start: 19 @44517 has 88 MA's), (21, 44547), (26, 44616), (29, 44661),

Gene: Mugiwara_72 Start: 53726, Stop: 53905, Start Num: 19

Candidate Starts for Mugiwara_72:

(3, 53654), (7, 53666), (13, 53693), (15, 53699), (Start: 19 @53726 has 88 MA's), (23, 53768), (26, 53825),

Gene: MulchMansion_68 Start: 52347, Stop: 52526, Start Num: 19

Candidate Starts for MulchMansion_68:

(Start: 19 @52347 has 88 MA's), (23, 52389), (26, 52446),

Gene: Muntaha_48 Start: 44734, Stop: 44919, Start Num: 19

Candidate Starts for Muntaha_48:

(Start: 19 @44734 has 88 MA's), (26, 44833),

Gene: Navo_69 Start: 53436, Stop: 53615, Start Num: 19

Candidate Starts for Navo_69:

(6, 53376), (8, 53382), (14, 53409), (Start: 19 @53436 has 88 MA's), (20, 53463), (25, 53505), (26, 53535), (28, 53574),

Gene: PacManQ_70 Start: 53520, Stop: 53699, Start Num: 19

Candidate Starts for PacManQ_70:

(5, 53457), (6, 53460), (8, 53466), (14, 53493), (Start: 19 @53520 has 88 MA's), (26, 53619),

Gene: Paradiddles_67 Start: 52692, Stop: 52871, Start Num: 19

Candidate Starts for Paradiddles_67:

(6, 52632), (8, 52638), (14, 52665), (Start: 19 @52692 has 88 MA's), (20, 52719), (25, 52761), (26, 52791), (28, 52830),

Gene: Patelgo_51 Start: 44704, Stop: 44895, Start Num: 19

Candidate Starts for Patelgo_51:

(1, 44599), (2, 44602), (4, 44632), (6, 44638), (9, 44647), (12, 44662), (18, 44692), (Start: 19 @44704 has 88 MA's), (21, 44734), (26, 44803), (29, 44848),

Gene: Peebs_70 Start: 53874, Stop: 54053, Start Num: 19

Candidate Starts for Peebs_70:

(5, 53811), (6, 53814), (8, 53820), (14, 53847), (Start: 19 @53874 has 88 MA's), (26, 53973),

Gene: Pepperwood_71 Start: 54007, Stop: 54186, Start Num: 19

Candidate Starts for Pepperwood_71:

(5, 53944), (6, 53947), (8, 53953), (14, 53980), (Start: 19 @54007 has 88 MA's), (26, 54106),

Gene: Persimmon_67 Start: 52361, Stop: 52540, Start Num: 19

Candidate Starts for Persimmon_67:

(6, 52301), (8, 52307), (14, 52334), (Start: 19 @52361 has 88 MA's), (20, 52388), (25, 52430), (26, 52460), (28, 52499),

Gene: Phredrick_50 Start: 42563, Stop: 42754, Start Num: 19

Candidate Starts for Phredrick_50:

(1, 42458), (4, 42491), (6, 42497), (9, 42506), (18, 42551), (Start: 19 @42563 has 88 MA's), (20, 42590), (21, 42593), (23, 42605), (26, 42662),

Gene: PinkiePie_69 Start: 53514, Stop: 53693, Start Num: 19

Candidate Starts for PinkiePie_69:

(6, 53454), (8, 53460), (14, 53487), (Start: 19 @53514 has 88 MA's), (20, 53541), (25, 53583), (26, 53613), (28, 53652),

Gene: PumpkinSpice_72 Start: 53367, Stop: 53546, Start Num: 19

Candidate Starts for PumpkinSpice_72:

(15, 53340), (Start: 19 @53367 has 88 MA's), (20, 53394), (23, 53409), (26, 53466),

Gene: PynkPanther_69 Start: 53494, Stop: 53673, Start Num: 19

Candidate Starts for PynkPanther_69:

(6, 53434), (8, 53440), (14, 53467), (Start: 19 @53494 has 88 MA's), (20, 53521), (25, 53563), (26, 53593), (28, 53632),

Gene: Rikishi_73 Start: 53273, Stop: 53452, Start Num: 19

Candidate Starts for Rikishi_73:

(15, 53246), (Start: 19 @53273 has 88 MA's), (20, 53300), (23, 53315), (26, 53372),

Gene: Riptide_68 Start: 52161, Stop: 52340, Start Num: 19

Candidate Starts for Riptide_68:

(7, 52101), (8, 52104), (9, 52107), (13, 52128), (14, 52131), (Start: 19 @52161 has 88 MA's), (20, 52188), (25, 52230), (26, 52260), (28, 52299),

Gene: SaltySpittoon_73 Start: 53367, Stop: 53546, Start Num: 19

Candidate Starts for SaltySpittoon_73:

(15, 53340), (Start: 19 @53367 has 88 MA's), (20, 53394), (23, 53409), (26, 53466),

Gene: Samisti12_71 Start: 55317, Stop: 55496, Start Num: 19

Candidate Starts for Samisti12_71:

(5, 55254), (6, 55257), (8, 55263), (14, 55290), (Start: 19 @55317 has 88 MA's), (24, 55380), (26, 55416),

Gene: Scheme_72 Start: 54721, Stop: 54900, Start Num: 19

Candidate Starts for Scheme_72:

(5, 54658), (6, 54661), (8, 54667), (14, 54694), (Start: 19 @54721 has 88 MA's), (26, 54820),

Gene: Shuckle_69 Start: 54331, Stop: 54510, Start Num: 19

Candidate Starts for Shuckle_69:

(5, 54268), (6, 54271), (8, 54277), (14, 54304), (Start: 19 @54331 has 88 MA's), (26, 54430),

Gene: Sollertia_73 Start: 53333, Stop: 53512, Start Num: 19

Candidate Starts for Sollertia_73:

(15, 53306), (Start: 19 @53333 has 88 MA's), (23, 53375), (24, 53396), (26, 53432),

Gene: SparkleGoddess_51 Start: 44548, Stop: 44739, Start Num: 19

Candidate Starts for SparkleGoddess_51:

(1, 44443), (4, 44476), (6, 44482), (9, 44491), (10, 44497), (11, 44500), (12, 44506), (18, 44536), (Start: 19 @44548 has 88 MA's), (21, 44578), (23, 44590), (26, 44647),

Gene: Spelly_73 Start: 53322, Stop: 53501, Start Num: 19

Candidate Starts for Spelly_73:

(15, 53295), (Start: 19 @53322 has 88 MA's), (20, 53349), (23, 53364), (26, 53421),

Gene: Spilled_74 Start: 53439, Stop: 53618, Start Num: 19

Candidate Starts for Spilled_74:

(15, 53412), (Start: 19 @53439 has 88 MA's), (20, 53466), (23, 53481), (26, 53538),

Gene: Squillium_70 Start: 53515, Stop: 53694, Start Num: 19

Candidate Starts for Squillium_70:

(6, 53455), (8, 53461), (14, 53488), (Start: 19 @53515 has 88 MA's), (20, 53542), (25, 53584), (26, 53614), (28, 53653),

Gene: Stanimal_73 Start: 53222, Stop: 53401, Start Num: 19

Candidate Starts for Stanimal_73:

(15, 53195), (Start: 19 @53222 has 88 MA's), (23, 53264), (24, 53285), (26, 53321),

Gene: StarPlatinum_73 Start: 53867, Stop: 54046, Start Num: 19

Candidate Starts for StarPlatinum_73:

(7, 53807), (13, 53834), (15, 53840), (Start: 19 @53867 has 88 MA's), (23, 53909), (26, 53966),

Gene: Sushi23_71 Start: 54232, Stop: 54411, Start Num: 19

Candidate Starts for Sushi23_71:

(5, 54169), (6, 54172), (8, 54178), (14, 54205), (Start: 19 @54232 has 88 MA's), (26, 54331),

Gene: Targaryen_72 Start: 54936, Stop: 55115, Start Num: 19

Candidate Starts for Targaryen_72:

(Start: 19 @54936 has 88 MA's), (26, 55035),

Gene: Deutsch_71 Start: 54495, Stop: 54674, Start Num: 19

Candidate Starts for Deutsch_71:

(5, 54432), (6, 54435), (8, 54441), (14, 54468), (Start: 19 @54495 has 88 MA's), (26, 54594),

Gene: TomSawyer_71 Start: 52961, Stop: 53140, Start Num: 19

Candidate Starts for TomSawyer_71:

(15, 52934), (Start: 19 @52961 has 88 MA's), (20, 52988), (23, 53003), (26, 53060),

Gene: Tomas_75 Start: 55682, Stop: 55861, Start Num: 19

Candidate Starts for Tomas_75:

(Start: 19 @55682 has 88 MA's), (22, 55715), (23, 55724), (24, 55745), (26, 55781), (27, 55817),

Gene: Tribute_69 Start: 53701, Stop: 53880, Start Num: 19

Candidate Starts for Tribute_69:

(5, 53638), (6, 53641), (8, 53647), (14, 53674), (Start: 19 @53701 has 88 MA's), (26, 53800),

Gene: Warpy_75 Start: 54400, Stop: 54579, Start Num: 19

Candidate Starts for Warpy_75:

(Start: 19 @54400 has 88 MA's), (26, 54499),

Gene: WashU_71 Start: 54010, Stop: 54189, Start Num: 19

Candidate Starts for WashU_71:

(5, 53947), (6, 53950), (8, 53956), (14, 53983), (Start: 19 @54010 has 88 MA's), (26, 54109),

Gene: Watermoore_71 Start: 54711, Stop: 54890, Start Num: 19

Candidate Starts for Watermoore_71:

(5, 54648), (6, 54651), (8, 54657), (14, 54684), (Start: 19 @54711 has 88 MA's), (26, 54810),

Gene: Westy_51 Start: 44549, Stop: 44740, Start Num: 19

Candidate Starts for Westy_51:

(1, 44444), (4, 44477), (6, 44483), (9, 44492), (10, 44498), (12, 44507), (18, 44537), (Start: 19 @44549 has 88 MA's), (21, 44579), (23, 44591), (26, 44648),

Gene: WhereRU_68 Start: 52952, Stop: 53131, Start Num: 19

Candidate Starts for WhereRU_68:

(6, 52892), (8, 52898), (14, 52925), (Start: 19 @52952 has 88 MA's), (20, 52979), (25, 53021), (26, 53051), (28, 53090),

Gene: Wipeout_71 Start: 53712, Stop: 53891, Start Num: 19

Candidate Starts for Wipeout_71:

(15, 53685), (Start: 19 @53712 has 88 MA's), (20, 53739), (23, 53754), (26, 53811),

Gene: Wofford_72 Start: 54397, Stop: 54576, Start Num: 19

Candidate Starts for Wofford_72:

(7, 54337), (13, 54364), (14, 54367), (15, 54370), (Start: 19 @54397 has 88 MA's), (26, 54496),

Gene: Yaboi_73 Start: 53310, Stop: 53489, Start Num: 19

Candidate Starts for Yaboi_73:

(15, 53283), (Start: 19 @53310 has 88 MA's), (23, 53352), (24, 53373), (26, 53409),