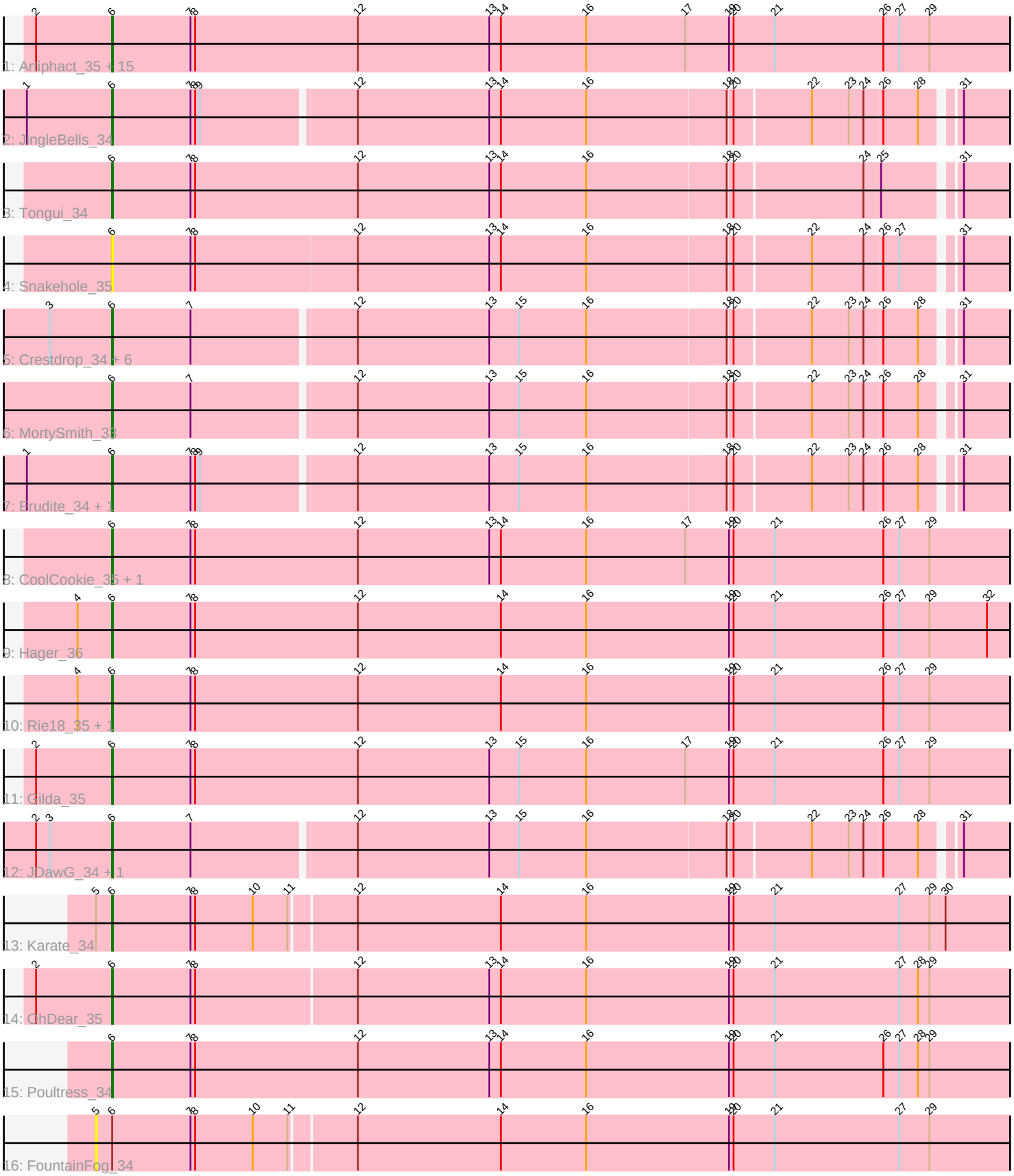
Pham 335000


1: Antiphact_35 + 15
2: JingleBells_34
3: Tongui_34
4: Snakehole_35
5: Crestdrop_34 + 6
6: MortySmith_33
7: Brudite_34 + 1
8: CoolCookie_35 + 1
9: Hager_36
10: Rie18_35 + 1
11: Gilda_35
12: JDawG_34 + 1
13: Karate_34
14: OhDear_35
15: Poultress_34
16: FountainFog_34

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 335000 Report

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

Pham number 335000 has 41 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Artiphact_35, Haunter_35, Tedro_35, Cybele_35, Kate_35, AnnaSerena_35, NarutoRun_35, Anakin_35, Neptune_35, Pharpay_35, Potty_35, OverHedge_35, Tiggy93_35, SafetyGuy_35, Rachella_35, Krampus_35
• Track 2 : JingleBells_34
• Track 3 : Tongui_34
• Track 4 : Snakehole_35
• Track 5 : Crestdrop_34, Annapurna_34, Hiddenleaf_34, DannyDe_34, FreddieHg_34, SilentWarrior_34, Chivey_34
• Track 6 : MortySmith_33
• Track 7 : Erudite_34, Dauntless_34
• Track 8 : CoolCookie_35, PhunaPhoke_35
• Track 9 : Hager_36
• Track 10 : Rie18_35, WinnieLou_36
• Track 11 : Gilda_35
• Track 12 : JDawG_34, Aesir_34
• Track 13 : Karate_34
• Track 14 : OhDear_35
• Track 15 : Poultress_34
• Track 16 : FountainFog_34

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

The start number called the most often in the published annotations is 6, it was called in 37 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aesir_34, Anakin_35, AnnaSerena_35, Annapurna_34, Artiphact_35, Chivey_34, CoolCookie_35, Crestdrop_34, Cybele_35, DannyDe_34, Dauntless_34, Erudite_34, FreddieHg_34, Gilda_35, Hager_36, Haunter_35, Hiddenleaf_34, JDawG_34, JingleBells_34, Karate_34, Kate_35, Krampus_35, MortySmith_33, NarutoRun_35, Neptune_35, OhDear_35, OverHedge_35, Pharpay_35, PhunaPhoke_35, Potty_35, Poultress_34, Rachella_35, Rie18_35, SafetyGuy_35, SilentWarrior_34, Snakehole_35, Tedro_35, Tiggy93_35, Tongui_34, WinnieLou_36,

Genes that have the "Most Annotated" start but do not call it:
• FountainFog_34,

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

Summary by start number:

Start 5:
• Found in 2 of 41 (4.9%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: FountainFog_34 (EF),

Start 6:
• Found in 41 of 41 (100.0%) of genes in pham
• Manual Annotations of this start: 37 of 37
• Called 97.6% of time when present
• Phage (with cluster) where this start called: Aesir_34 (EF), Anakin_35 (EF), AnnaSerena_35 (EF), Annapurna_34 (EF), Artiphact_35 (EF), Chivey_34 (EF), CoolCookie_35 (EF), Crestdrop_34 (EF), Cybele_35 (EF), DannyDe_34 (EF), Dauntless_34 (EF), Erudite_34 (EF), FreddieHg_34 (EF), Gilda_35 (EF), Hager_36 (EF), Haunter_35 (EF), Hiddenleaf_34 (EF), JDawG_34 (EF), JingleBells_34 (EF), Karate_34 (EF), Kate_35 (EF), Krampus_35 (EF), MortySmith_33 (EF), NarutoRun_35 (EF), Neptune_35 (EF), OhDear_35 (EF), OverHedge_35 (EF), Pharpay_35 (EF), PhunaPhoke_35 (EF), Potty_35 (EF), Poultress_34 (EF), Rachella_35 (EF), Rie18_35 (EF), SafetyGuy_35 (EF), SilentWarrior_34 (EF), Snakehole_35 (EF), Tedro_35 (EF), Tiggy93_35 (EF), Tongui_34 (EF), WinnieLou_36 (EF),

Summary by clusters:

There is one cluster represented in this pham: EF

Info for manual annotations of cluster EF:
•Start number 6 was manually annotated 37 times for cluster EF.

Gene Information:

Gene: Aesir_34 Start: 22370, Stop: 23494, Start Num: 6
Candidate Starts for Aesir_34:
(2, 22271), (3, 22289), (Start: 6 @22370 has 37 MA's), (7, 22472), (12, 22673), (13, 22844), (15, 22883), (16, 22970), (18, 23147), (20, 23153), (22, 23249), (23, 23297), (24, 23315), (26, 23336), (28, 23381), (31, 23420),

Gene: Anakin_35 Start: 22628, Stop: 23818, Start Num: 6
Candidate Starts for Anakin_35:
(2, 22529), (Start: 6 @22628 has 37 MA's), (7, 22730), (8, 22736), (12, 22946), (13, 23117), (14, 23132), (16, 23243), (17, 23372), (19, 23429), (20, 23435), (21, 23489), (26, 23630), (27, 23651), (29, 23690),

Gene: AnnaSerena_35 Start: 22639, Stop: 23853, Start Num: 6
Candidate Starts for AnnaSerena_35:
(2, 22540), (Start: 6 @22639 has 37 MA's), (7, 22741), (8, 22747), (12, 22957), (13, 23128), (14, 23143), (16, 23254), (17, 23383), (19, 23440), (20, 23446), (21, 23500), (26, 23641), (27, 23662), (29, 23701),

Gene: Annapurna_34 Start: 21832, Stop: 22956, Start Num: 6
Candidate Starts for Annapurna_34:
(3, 21751), (Start: 6 @21832 has 37 MA's), (7, 21934), (12, 22135), (13, 22306), (15, 22345), (16, 22432), (18, 22609), (20, 22615), (22, 22711), (23, 22759), (24, 22777), (26, 22798), (28, 22843), (31, 22882),

Gene: Artiphact_35 Start: 22629, Stop: 23843, Start Num: 6
Candidate Starts for Artiphact_35:
(2, 22530), (Start: 6 @22629 has 37 MA's), (7, 22731), (8, 22737), (12, 22947), (13, 23118), (14, 23133), (16, 23244), (17, 23373), (19, 23430), (20, 23436), (21, 23490), (26, 23631), (27, 23652), (29, 23691),

Gene: Chivey_34 Start: 21781, Stop: 22905, Start Num: 6
Candidate Starts for Chivey_34:
(3, 21700), (Start: 6 @21781 has 37 MA's), (7, 21883), (12, 22084), (13, 22255), (15, 22294), (16, 22381), (18, 22558), (20, 22564), (22, 22660), (23, 22708), (24, 22726), (26, 22747), (28, 22792), (31, 22831),

Gene: CoolCookie_35 Start: 22635, Stop: 23849, Start Num: 6
Candidate Starts for CoolCookie_35:
(Start: 6 @22635 has 37 MA's), (7, 22737), (8, 22743), (12, 22953), (13, 23124), (14, 23139), (16, 23250), (17, 23379), (19, 23436), (20, 23442), (21, 23496), (26, 23637), (27, 23658), (29, 23697),

Gene: Crestdrop_34 Start: 21695, Stop: 22819, Start Num: 6
Candidate Starts for Crestdrop_34:
(3, 21614), (Start: 6 @21695 has 37 MA's), (7, 21797), (12, 21998), (13, 22169), (15, 22208), (16, 22295), (18, 22472), (20, 22478), (22, 22574), (23, 22622), (24, 22640), (26, 22661), (28, 22706), (31, 22745),

Gene: Cybele_35 Start: 22605, Stop: 23819, Start Num: 6
Candidate Starts for Cybele_35:
(2, 22506), (Start: 6 @22605 has 37 MA's), (7, 22707), (8, 22713), (12, 22923), (13, 23094), (14, 23109), (16, 23220), (17, 23349), (19, 23406), (20, 23412), (21, 23466), (26, 23607), (27, 23628), (29, 23667),

Gene: DannyDe_34 Start: 21778, Stop: 22911, Start Num: 6
Candidate Starts for DannyDe_34:
(3, 21697), (Start: 6 @21778 has 37 MA's), (7, 21880), (12, 22081), (13, 22252), (15, 22291), (16, 22378), (18, 22555), (20, 22561), (22, 22657), (23, 22705), (24, 22723), (26, 22744), (28, 22789), (31, 22828),

Gene: Dauntless_34 Start: 22338, Stop: 23462, Start Num: 6
Candidate Starts for Dauntless_34:
(1, 22227), (Start: 6 @22338 has 37 MA's), (7, 22440), (8, 22446), (9, 22452), (12, 22641), (13, 22812), (15, 22851), (16, 22938), (18, 23115), (20, 23121), (22, 23217), (23, 23265), (24, 23283), (26, 23304), (28, 23349), (31, 23388),

Gene: Erudite_34 Start: 22338, Stop: 23462, Start Num: 6
Candidate Starts for Erudite_34:
(1, 22227), (Start: 6 @22338 has 37 MA's), (7, 22440), (8, 22446), (9, 22452), (12, 22641), (13, 22812), (15, 22851), (16, 22938), (18, 23115), (20, 23121), (22, 23217), (23, 23265), (24, 23283), (26, 23304), (28, 23349), (31, 23388),

Gene: FountainFog_34 Start: 21919, Stop: 23121, Start Num: 5
Candidate Starts for FountainFog_34:
(5, 21919), (Start: 6 @21940 has 37 MA's), (7, 22042), (8, 22048), (10, 22123), (11, 22168), (12, 22246), (14, 22432), (16, 22543), (19, 22729), (20, 22735), (21, 22789), (27, 22951), (29, 22990),

Gene: FreddieHg_34 Start: 21797, Stop: 22921, Start Num: 6
Candidate Starts for FreddieHg_34:
(3, 21716), (Start: 6 @21797 has 37 MA's), (7, 21899), (12, 22100), (13, 22271), (15, 22310), (16, 22397), (18, 22574), (20, 22580), (22, 22676), (23, 22724), (24, 22742), (26, 22763), (28, 22808), (31, 22847),

Gene: Gilda_35 Start: 22629, Stop: 23843, Start Num: 6
Candidate Starts for Gilda_35:
(2, 22530), (Start: 6 @22629 has 37 MA's), (7, 22731), (8, 22737), (12, 22947), (13, 23118), (15, 23157), (16, 23244), (17, 23373), (19, 23430), (20, 23436), (21, 23490), (26, 23631), (27, 23652), (29, 23691),

Gene: Hager_36 Start: 22192, Stop: 23385, Start Num: 6
Candidate Starts for Hager_36:
(4, 22147), (Start: 6 @22192 has 37 MA's), (7, 22294), (8, 22300), (12, 22510), (14, 22696), (16, 22807), (19, 22993), (20, 22999), (21, 23053), (26, 23194), (27, 23215), (29, 23254), (32, 23329),

Gene: Haunter_35 Start: 22042, Stop: 23235, Start Num: 6
Candidate Starts for Haunter_35:
(2, 21943), (Start: 6 @22042 has 37 MA's), (7, 22144), (8, 22150), (12, 22360), (13, 22531), (14, 22546), (16, 22657), (17, 22786), (19, 22843), (20, 22849), (21, 22903), (26, 23044), (27, 23065), (29, 23104),

Gene: Hiddenleaf_34 Start: 21781, Stop: 22905, Start Num: 6
Candidate Starts for Hiddenleaf_34:
(3, 21700), (Start: 6 @21781 has 37 MA's), (7, 21883), (12, 22084), (13, 22255), (15, 22294), (16, 22381), (18, 22558), (20, 22564), (22, 22660), (23, 22708), (24, 22726), (26, 22747), (28, 22792), (31, 22831),

Gene: JDawG_34 Start: 22365, Stop: 23489, Start Num: 6
Candidate Starts for JDawG_34:
(2, 22266), (3, 22284), (Start: 6 @22365 has 37 MA's), (7, 22467), (12, 22668), (13, 22839), (15, 22878), (16, 22965), (18, 23142), (20, 23148), (22, 23244), (23, 23292), (24, 23310), (26, 23331), (28, 23376), (31, 23415),

Gene: JingleBells_34 Start: 21902, Stop: 23026, Start Num: 6
Candidate Starts for JingleBells_34:
(1, 21791), (Start: 6 @21902 has 37 MA's), (7, 22004), (8, 22010), (9, 22016), (12, 22205), (13, 22376), (14, 22391), (16, 22502), (18, 22679), (20, 22685), (22, 22781), (23, 22829), (24, 22847), (26, 22868), (28, 22913), (31, 22952),

Gene: Karate_34 Start: 22660, Stop: 23841, Start Num: 6

Candidate Starts for Karate_34:
(5, 22639), (Start: 6 @22660 has 37 MA's), (7, 22762), (8, 22768), (10, 22843), (11, 22888), (12, 22966), (14, 23152), (16, 23263), (19, 23449), (20, 23455), (21, 23509), (27, 23671), (29, 23710), (30, 23731),

Gene: Kate_35 Start: 22637, Stop: 23851, Start Num: 6
Candidate Starts for Kate_35:
(2, 22538), (Start: 6 @22637 has 37 MA's), (7, 22739), (8, 22745), (12, 22955), (13, 23126), (14, 23141), (16, 23252), (17, 23381), (19, 23438), (20, 23444), (21, 23498), (26, 23639), (27, 23660), (29, 23699),

Gene: Krampus_35 Start: 22637, Stop: 23851, Start Num: 6
Candidate Starts for Krampus_35:
(2, 22538), (Start: 6 @22637 has 37 MA's), (7, 22739), (8, 22745), (12, 22955), (13, 23126), (14, 23141), (16, 23252), (17, 23381), (19, 23438), (20, 23444), (21, 23498), (26, 23639), (27, 23660), (29, 23699),

Gene: MortySmith_33 Start: 21753, Stop: 22877, Start Num: 6
Candidate Starts for MortySmith_33:
(Start: 6 @21753 has 37 MA's), (7, 21855), (12, 22056), (13, 22227), (15, 22266), (16, 22353), (18, 22530), (20, 22536), (22, 22632), (23, 22680), (24, 22698), (26, 22719), (28, 22764), (31, 22803),

Gene: NarutoRun_35 Start: 22628, Stop: 23818, Start Num: 6
Candidate Starts for NarutoRun_35:
(2, 22529), (Start: 6 @22628 has 37 MA's), (7, 22730), (8, 22736), (12, 22946), (13, 23117), (14, 23132), (16, 23243), (17, 23372), (19, 23429), (20, 23435), (21, 23489), (26, 23630), (27, 23651), (29, 23690),

Gene: Neptune_35 Start: 22605, Stop: 23819, Start Num: 6
Candidate Starts for Neptune_35:
(2, 22506), (Start: 6 @22605 has 37 MA's), (7, 22707), (8, 22713), (12, 22923), (13, 23094), (14, 23109), (16, 23220), (17, 23349), (19, 23406), (20, 23412), (21, 23466), (26, 23607), (27, 23628), (29, 23667),

Gene: OhDear_35 Start: 22634, Stop: 23818, Start Num: 6
Candidate Starts for OhDear_35:
(2, 22535), (Start: 6 @22634 has 37 MA's), (7, 22736), (8, 22742), (12, 22946), (13, 23117), (14, 23132), (16, 23243), (19, 23429), (20, 23435), (21, 23489), (27, 23651), (28, 23675), (29, 23690),

Gene: OverHedge_35 Start: 22595, Stop: 23809, Start Num: 6
Candidate Starts for OverHedge_35:
(2, 22496), (Start: 6 @22595 has 37 MA's), (7, 22697), (8, 22703), (12, 22913), (13, 23084), (14, 23099), (16, 23210), (17, 23339), (19, 23396), (20, 23402), (21, 23456), (26, 23597), (27, 23618), (29, 23657),

Gene: Pharpay_35 Start: 22650, Stop: 23864, Start Num: 6
Candidate Starts for Pharpay_35:
(2, 22551), (Start: 6 @22650 has 37 MA's), (7, 22752), (8, 22758), (12, 22968), (13, 23139), (14, 23154), (16, 23265), (17, 23394), (19, 23451), (20, 23457), (21, 23511), (26, 23652), (27, 23673), (29, 23712),

Gene: PhunaPhoke_35 Start: 22623, Stop: 23837, Start Num: 6
Candidate Starts for PhunaPhoke_35:

(Start: 6 @22623 has 37 MA's), (7, 22725), (8, 22731), (12, 22941), (13, 23112), (14, 23127), (16, 23238), (17, 23367), (19, 23424), (20, 23430), (21, 23484), (26, 23625), (27, 23646), (29, 23685),

Gene: Potty_35 Start: 22628, Stop: 23842, Start Num: 6
Candidate Starts for Potty_35:
(2, 22529), (Start: 6 @22628 has 37 MA's), (7, 22730), (8, 22736), (12, 22946), (13, 23117), (14, 23132), (16, 23243), (17, 23372), (19, 23429), (20, 23435), (21, 23489), (26, 23630), (27, 23651), (29, 23690),

Gene: Poultress_34 Start: 22999, Stop: 24189, Start Num: 6
Candidate Starts for Poultress_34:
(Start: 6 @22999 has 37 MA's), (7, 23101), (8, 23107), (12, 23317), (13, 23488), (14, 23503), (16, 23614), (19, 23800), (20, 23806), (21, 23860), (26, 24001), (27, 24022), (28, 24046), (29, 24061),

Gene: Rachella_35 Start: 22631, Stop: 23845, Start Num: 6
Candidate Starts for Rachella_35:
(2, 22532), (Start: 6 @22631 has 37 MA's), (7, 22733), (8, 22739), (12, 22949), (13, 23120), (14, 23135), (16, 23246), (17, 23375), (19, 23432), (20, 23438), (21, 23492), (26, 23633), (27, 23654), (29, 23693),

Gene: Rie18_35 Start: 22145, Stop: 23332, Start Num: 6
Candidate Starts for Rie18_35:
(4, 22100), (Start: 6 @22145 has 37 MA's), (7, 22247), (8, 22253), (12, 22457), (14, 22643), (16, 22754), (19, 22940), (20, 22946), (21, 23000), (26, 23141), (27, 23162), (29, 23201),

Gene: SafetyGuy_35 Start: 22634, Stop: 23824, Start Num: 6
Candidate Starts for SafetyGuy_35:
(2, 22535), (Start: 6 @22634 has 37 MA's), (7, 22736), (8, 22742), (12, 22952), (13, 23123), (14, 23138), (16, 23249), (17, 23378), (19, 23435), (20, 23441), (21, 23495), (26, 23636), (27, 23657), (29, 23696),

Gene: SilentWarrior_34 Start: 21794, Stop: 22918, Start Num: 6
Candidate Starts for SilentWarrior_34:
(3, 21713), (Start: 6 @21794 has 37 MA's), (7, 21896), (12, 22097), (13, 22268), (15, 22307), (16, 22394), (18, 22571), (20, 22577), (22, 22673), (23, 22721), (24, 22739), (26, 22760), (28, 22805), (31, 22844),

Gene: Snakehole_35 Start: 21878, Stop: 23020, Start Num: 6
Candidate Starts for Snakehole_35:
(Start: 6 @21878 has 37 MA's), (7, 21980), (8, 21986), (12, 22190), (13, 22361), (14, 22376), (16, 22487), (18, 22664), (20, 22670), (22, 22766), (24, 22832), (26, 22853), (27, 22874), (31, 22937),

Gene: Tedro_35 Start: 22101, Stop: 23315, Start Num: 6
Candidate Starts for Tedro_35:
(2, 22002), (Start: 6 @22101 has 37 MA's), (7, 22203), (8, 22209), (12, 22419), (13, 22590), (14, 22605), (16, 22716), (17, 22845), (19, 22902), (20, 22908), (21, 22962), (26, 23103), (27, 23124), (29, 23163),

Gene: Tiggy93_35 Start: 22634, Stop: 23848, Start Num: 6
Candidate Starts for Tiggy93_35:
(2, 22535), (Start: 6 @22634 has 37 MA's), (7, 22736), (8, 22742), (12, 22952), (13, 23123), (14, 23138), (16, 23249), (17, 23378), (19, 23435), (20, 23441), (21, 23495), (26, 23636), (27, 23657), (29, 23696),

Gene: Tongui_34 Start: 22129, Stop: 23271, Start Num: 6
Candidate Starts for Tongui_34:
(Start: 6 @22129 has 37 MA's), (7, 22231), (8, 22237), (12, 22447), (13, 22618), (14, 22633), (16, 22744), (18, 22918), (20, 22924), (24, 23086), (25, 23104), (31, 23191),

Gene: WinnieLou_36 Start: 22261, Stop: 23454, Start Num: 6
Candidate Starts for WinnieLou_36:
(4, 22216), (Start: 6 @22261 has 37 MA's), (7, 22363), (8, 22369), (12, 22579), (14, 22765), (16, 22876), (19, 23062), (20, 23068), (21, 23122), (26, 23263), (27, 23284), (29, 23323),