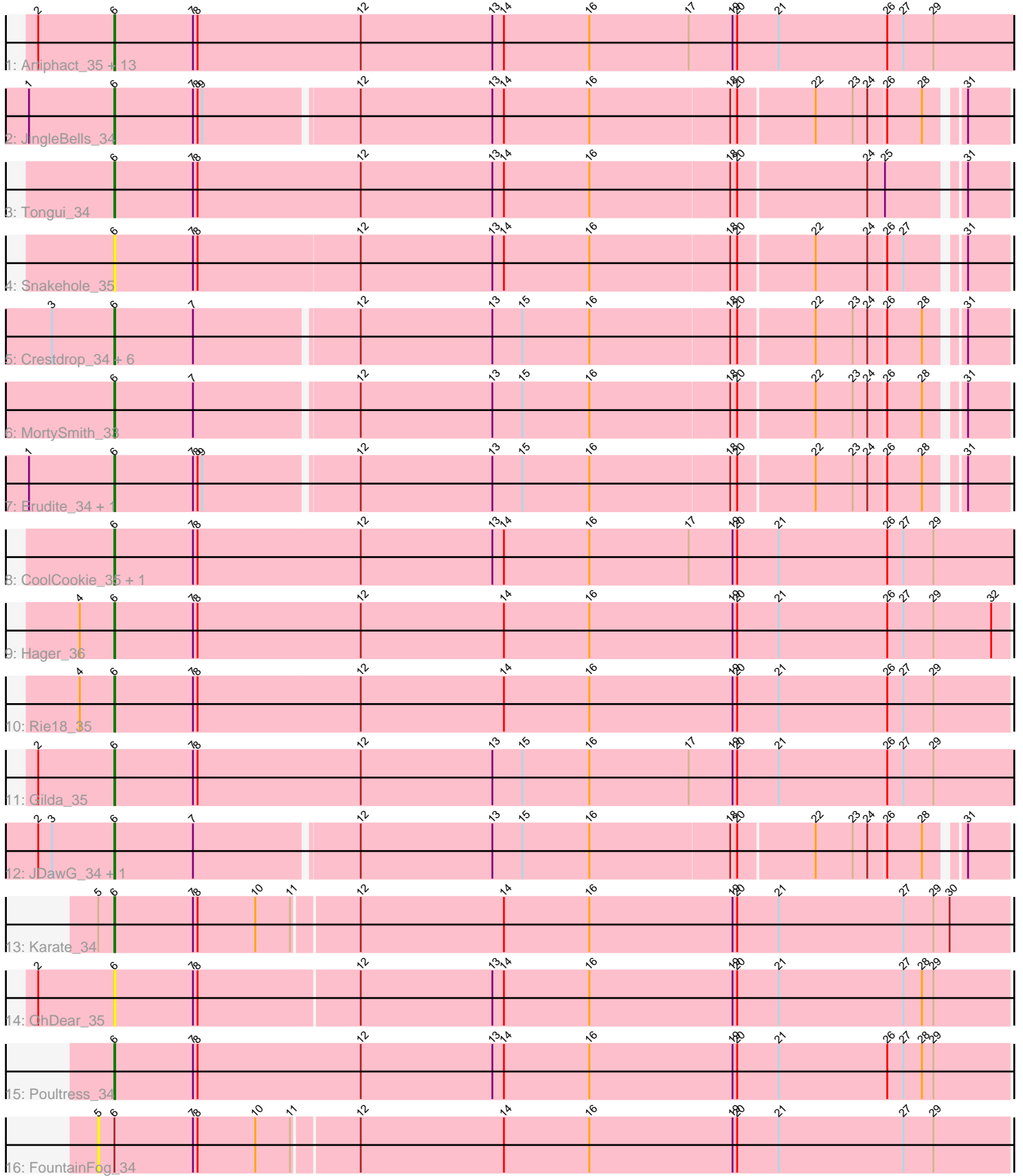


Pham 296735



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 296735 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296735 has 38 members, 3 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, 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
- Track 11 : Gilda\_35
- Track 12 : JDawG\_34, Aesir\_34
- Track 13 : Karate\_34
- Track 14 : OhDear\_35
- Track 15 : Poultruss\_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 35 of the 35 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, Poultruss\_34, Rachella\_35, Rie18\_35, SilentWarrior\_34, Snakehole\_35, Tedro\_35, Tongui\_34,

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 38 ( 5.3% ) 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 38 of 38 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 35 of 35
- Called 97.4% 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), Poultruss\_34 (EF), Rachella\_35 (EF), Rie18\_35 (EF), SilentWarrior\_34 (EF), Snakehole\_35 (EF), Tedro\_35 (EF), Tongui\_34 (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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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 35 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: SilentWarrior\_34 Start: 21794, Stop: 22918, Start Num: 6

Candidate Starts for SilentWarrior\_34:

(3, 21713), (Start: 6 @21794 has 35 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 35 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 35 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: Tongui\_34 Start: 22129, Stop: 23271, Start Num: 6

Candidate Starts for Tongui\_34:

(Start: 6 @22129 has 35 MA's), (7, 22231), (8, 22237), (12, 22447), (13, 22618), (14, 22633), (16, 22744), (18, 22918), (20, 22924), (24, 23086), (25, 23104), (31, 23191),