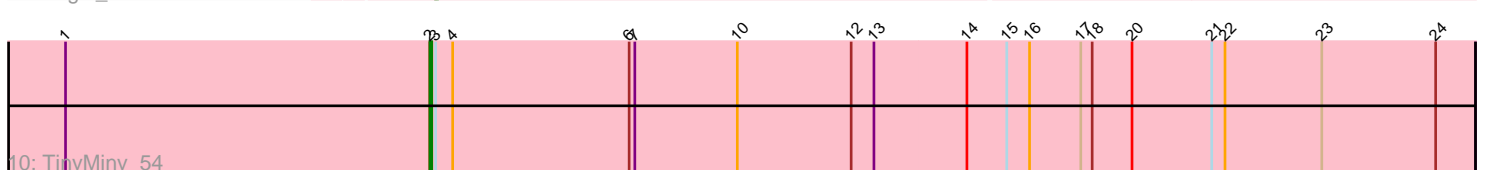
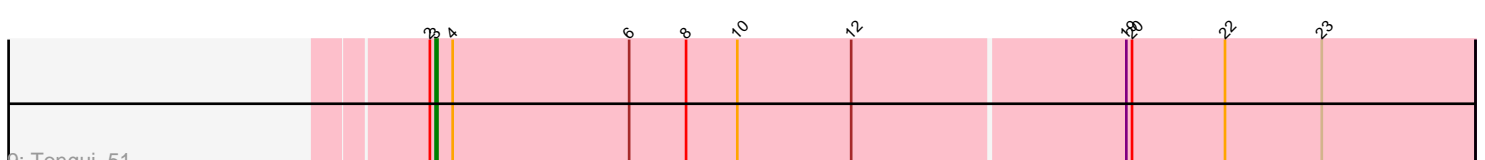
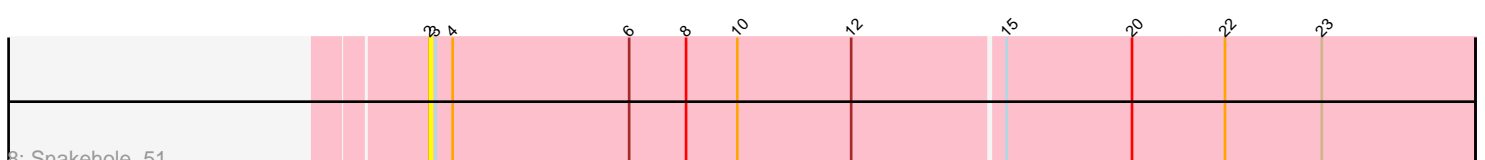
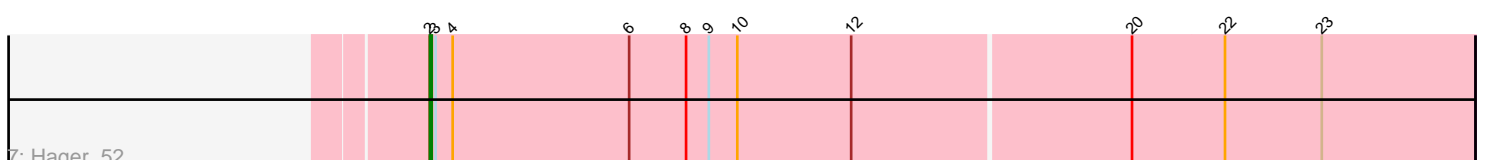
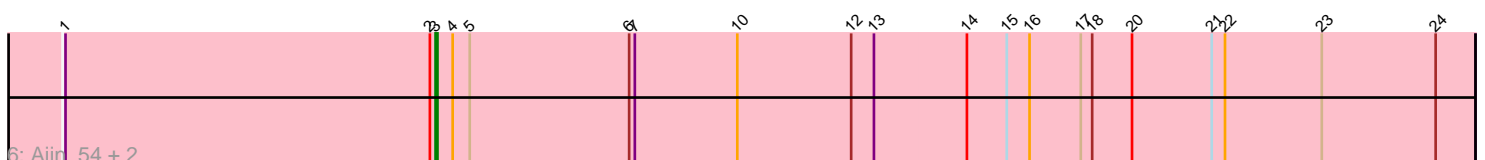
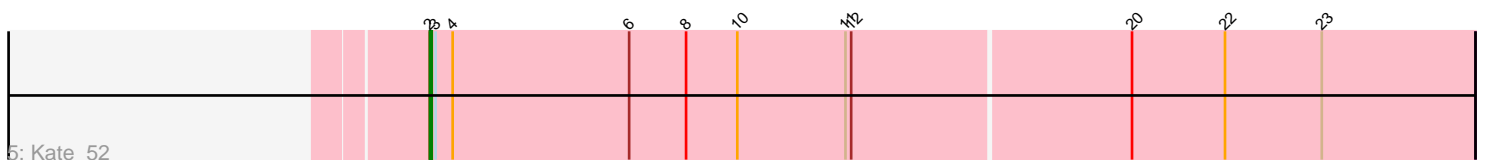
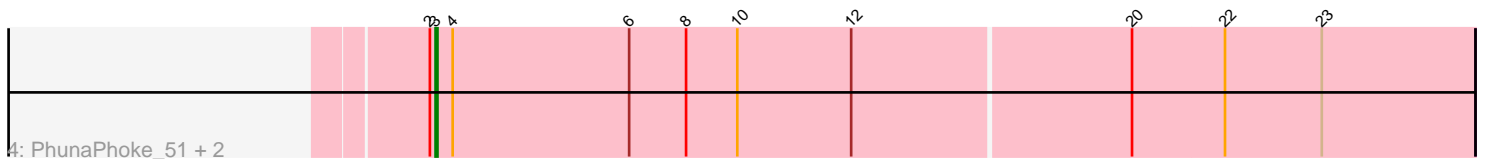
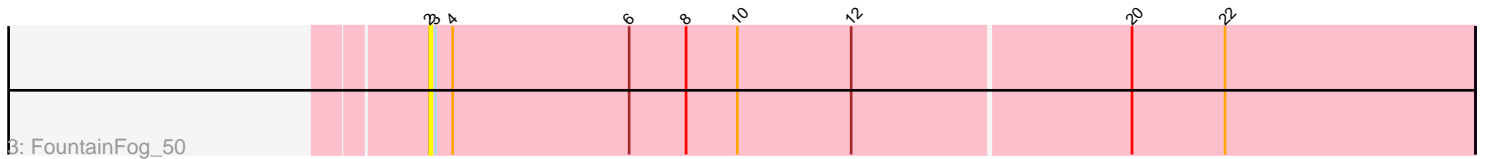
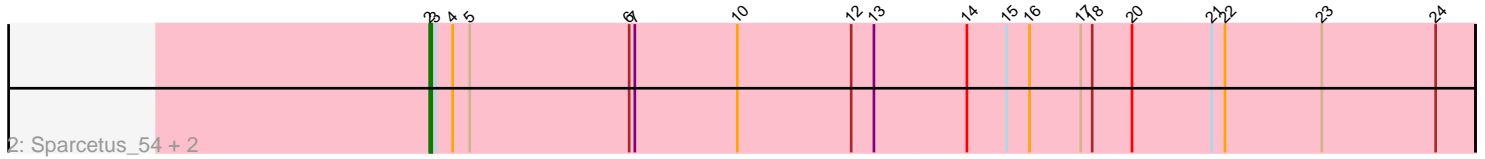
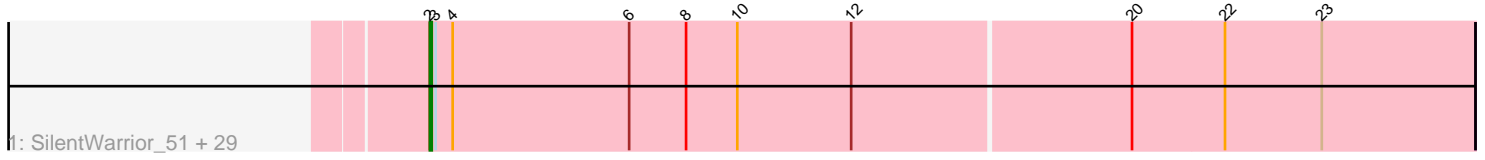


Pham 305115



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 305115 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305115 has 45 members, 3 are drafts.

Phages represented in each track:

- Track 1 : SilentWarrior_51, JingleBells_51, Tedro_51, Cybele_51, Erudite_50, OverHedge_51, Hiddenleaf_51, FreddieHg_51, MortySmith_49, Artiphact_51, AnnaSerena_51, Gilda_51, Rie18_51, OhDear_51, NarutoRun_51, Pharpay_51, Krampus_51, Aesir_50, CoolCookie_51, Chivey_51, Potty_51, JDawG_50, DannyDe_51, Anakin_51, Neptune_51, Crestdrop_51, Poultruss_50, Rachella_51, Dauntless_50, Haunter_51
- Track 2 : Sparcetus_54, Kors_54, RikSengupta_54
- Track 3 : FountainFog_50
- Track 4 : PhunaPhoke_51, Karate_50, Annapurna_51
- Track 5 : Kate_52
- Track 6 : Ajin_54, LordBart_54, Bramble_54
- Track 7 : Hager_52
- Track 8 : Snakehole_51
- Track 9 : Tongui_51
- Track 10 : TinyMiny_54

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

The start number called the most often in the published annotations is 2, it was called in 35 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir_50, Anakin_51, AnnaSerena_51, Artiphact_51, Chivey_51, CoolCookie_51, Crestdrop_51, Cybele_51, DannyDe_51, Dauntless_50, Erudite_50, FountainFog_50, FreddieHg_51, Gilda_51, Hager_52, Haunter_51, Hiddenleaf_51, JDawG_50, JingleBells_51, Kate_52, Kors_54, Krampus_51, MortySmith_49, NarutoRun_51, Neptune_51, OhDear_51, OverHedge_51, Pharpay_51, Potty_51, Poultruss_50, Rachella_51, Rie18_51, RikSengupta_54, SilentWarrior_51, Snakehole_51, Sparcetus_54, Tedro_51, TinyMiny_54,

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

- Ajin_54, Annapurna_51, Bramble_54, Karate_50, LordBart_54, PhunaPhoke_51, Tongui_51,

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

-

Summary by start number:

Start 2:

- Found in 45 of 45 (100.0%) of genes in pham
- Manual Annotations of this start: 35 of 42
- Called 84.4% of time when present
- Phage (with cluster) where this start called: Aesir_50 (EF), Anakin_51 (EF), AnnaSerena_51 (EF), Artiphact_51 (EF), Chivey_51 (EF), CoolCookie_51 (EF), Crestdrop_51 (EF), Cybele_51 (EF), DannyDe_51 (EF), Dauntless_50 (EF), Erudite_50 (EF), FountainFog_50 (EF), FreddieHg_51 (EF), Gilda_51 (EF), Hager_52 (EF), Haunter_51 (EF), Hiddenleaf_51 (EF), JDawG_50 (EF), JingleBells_51 (EF), Kate_52 (EF), Kors_54 (EF), Krampus_51 (EF), MortySmith_49 (EF), NarutoRun_51 (EF), Neptune_51 (EF), OhDear_51 (EF), OverHedge_51 (EF), Pharpay_51 (EF), Potty_51 (EF), Poultruss_50 (EF), Rachella_51 (EF), Rie18_51 (EF), RikSengupta_54 (EF), SilentWarrior_51 (EF), Snakehole_51 (EF), Sparcetus_54 (EF), Tedro_51 (EF), TinyMiny_54 (EF),

Start 3:

- Found in 45 of 45 (100.0%) of genes in pham
- Manual Annotations of this start: 7 of 42
- Called 15.6% of time when present
- Phage (with cluster) where this start called: Ajin_54 (EF), Annapurna_51 (EF), Bramble_54 (EF), Karate_50 (EF), LordBart_54 (EF), PhunaPhoke_51 (EF), Tongui_51 (EF),

Summary by clusters:

There is one cluster represented in this pham: EF

Info for manual annotations of cluster EF:

- Start number 2 was manually annotated 35 times for cluster EF.
- Start number 3 was manually annotated 7 times for cluster EF.

Gene Information:

Gene: Aesir_50 Start: 36292, Stop: 36837, Start Num: 2

Candidate Starts for Aesir_50:

(Start: 2 @36292 has 35 MA's), (Start: 3 @36295 has 7 MA's), (4, 36304), (6, 36397), (8, 36427), (10, 36454), (12, 36514), (20, 36658), (22, 36706), (23, 36757),

Gene: Ajin_54 Start: 37227, Stop: 37772, Start Num: 3

Candidate Starts for Ajin_54:

(1, 37032), (Start: 2 @37224 has 35 MA's), (Start: 3 @37227 has 7 MA's), (4, 37236), (5, 37245), (6, 37329), (7, 37332), (10, 37386), (12, 37446), (13, 37458), (14, 37506), (15, 37527), (16, 37539), (17, 37566), (18, 37572), (20, 37593), (21, 37635), (22, 37641), (23, 37692), (24, 37752),

Gene: Anakin_51 Start: 36651, Stop: 37196, Start Num: 2

Candidate Starts for Anakin_51:

(Start: 2 @36651 has 35 MA's), (Start: 3 @36654 has 7 MA's), (4, 36663), (6, 36756), (8, 36786), (10, 36813), (12, 36873), (20, 37017), (22, 37065), (23, 37116),

Gene: AnnaSerena_51 Start: 36685, Stop: 37230, Start Num: 2
Candidate Starts for AnnaSerena_51:

(Start: 2 @36685 has 35 MA's), (Start: 3 @36688 has 7 MA's), (4, 36697), (6, 36790), (8, 36820), (10, 36847), (12, 36907), (20, 37051), (22, 37099), (23, 37150),

Gene: Annapurna_51 Start: 35762, Stop: 36304, Start Num: 3
Candidate Starts for Annapurna_51:

(Start: 2 @35759 has 35 MA's), (Start: 3 @35762 has 7 MA's), (4, 35771), (6, 35864), (8, 35894), (10, 35921), (12, 35981), (20, 36125), (22, 36173), (23, 36224),

Gene: Artiphact_51 Start: 36675, Stop: 37220, Start Num: 2
Candidate Starts for Artiphact_51:

(Start: 2 @36675 has 35 MA's), (Start: 3 @36678 has 7 MA's), (4, 36687), (6, 36780), (8, 36810), (10, 36837), (12, 36897), (20, 37041), (22, 37089), (23, 37140),

Gene: Bramble_54 Start: 37276, Stop: 37821, Start Num: 3
Candidate Starts for Bramble_54:

(1, 37081), (Start: 2 @37273 has 35 MA's), (Start: 3 @37276 has 7 MA's), (4, 37285), (5, 37294), (6, 37378), (7, 37381), (10, 37435), (12, 37495), (13, 37507), (14, 37555), (15, 37576), (16, 37588), (17, 37615), (18, 37621), (20, 37642), (21, 37684), (22, 37690), (23, 37741), (24, 37801),

Gene: Chivey_51 Start: 35720, Stop: 36265, Start Num: 2
Candidate Starts for Chivey_51:

(Start: 2 @35720 has 35 MA's), (Start: 3 @35723 has 7 MA's), (4, 35732), (6, 35825), (8, 35855), (10, 35882), (12, 35942), (20, 36086), (22, 36134), (23, 36185),

Gene: CoolCookie_51 Start: 36678, Stop: 37223, Start Num: 2
Candidate Starts for CoolCookie_51:

(Start: 2 @36678 has 35 MA's), (Start: 3 @36681 has 7 MA's), (4, 36690), (6, 36783), (8, 36813), (10, 36840), (12, 36900), (20, 37044), (22, 37092), (23, 37143),

Gene: Crestdrop_51 Start: 35900, Stop: 36445, Start Num: 2
Candidate Starts for Crestdrop_51:

(Start: 2 @35900 has 35 MA's), (Start: 3 @35903 has 7 MA's), (4, 35912), (6, 36005), (8, 36035), (10, 36062), (12, 36122), (20, 36266), (22, 36314), (23, 36365),

Gene: Cybele_51 Start: 36651, Stop: 37196, Start Num: 2
Candidate Starts for Cybele_51:

(Start: 2 @36651 has 35 MA's), (Start: 3 @36654 has 7 MA's), (4, 36663), (6, 36756), (8, 36786), (10, 36813), (12, 36873), (20, 37017), (22, 37065), (23, 37116),

Gene: DannyDe_51 Start: 35714, Stop: 36259, Start Num: 2
Candidate Starts for DannyDe_51:

(Start: 2 @35714 has 35 MA's), (Start: 3 @35717 has 7 MA's), (4, 35726), (6, 35819), (8, 35849), (10, 35876), (12, 35936), (20, 36080), (22, 36128), (23, 36179),

Gene: Dauntless_50 Start: 36227, Stop: 36772, Start Num: 2
Candidate Starts for Dauntless_50:

(Start: 2 @36227 has 35 MA's), (Start: 3 @36230 has 7 MA's), (4, 36239), (6, 36332), (8, 36362), (10, 36389), (12, 36449), (20, 36593), (22, 36641), (23, 36692),

Gene: Erudite_50 Start: 36227, Stop: 36772, Start Num: 2

Candidate Starts for Erudite_50:

(Start: 2 @36227 has 35 MA's), (Start: 3 @36230 has 7 MA's), (4, 36239), (6, 36332), (8, 36362), (10, 36389), (12, 36449), (20, 36593), (22, 36641), (23, 36692),

Gene: FountainFog_50 Start: 35910, Stop: 36455, Start Num: 2

Candidate Starts for FountainFog_50:

(Start: 2 @35910 has 35 MA's), (Start: 3 @35913 has 7 MA's), (4, 35922), (6, 36015), (8, 36045), (10, 36072), (12, 36132), (20, 36276), (22, 36324),

Gene: FreddieHg_51 Start: 35730, Stop: 36275, Start Num: 2

Candidate Starts for FreddieHg_51:

(Start: 2 @35730 has 35 MA's), (Start: 3 @35733 has 7 MA's), (4, 35742), (6, 35835), (8, 35865), (10, 35892), (12, 35952), (20, 36096), (22, 36144), (23, 36195),

Gene: Gilda_51 Start: 36672, Stop: 37217, Start Num: 2

Candidate Starts for Gilda_51:

(Start: 2 @36672 has 35 MA's), (Start: 3 @36675 has 7 MA's), (4, 36684), (6, 36777), (8, 36807), (10, 36834), (12, 36894), (20, 37038), (22, 37086), (23, 37137),

Gene: Hager_52 Start: 36092, Stop: 36637, Start Num: 2

Candidate Starts for Hager_52:

(Start: 2 @36092 has 35 MA's), (Start: 3 @36095 has 7 MA's), (4, 36104), (6, 36197), (8, 36227), (9, 36239), (10, 36254), (12, 36314), (20, 36458), (22, 36506), (23, 36557),

Gene: Haunter_51 Start: 35892, Stop: 36437, Start Num: 2

Candidate Starts for Haunter_51:

(Start: 2 @35892 has 35 MA's), (Start: 3 @35895 has 7 MA's), (4, 35904), (6, 35997), (8, 36027), (10, 36054), (12, 36114), (20, 36258), (22, 36306), (23, 36357),

Gene: Hiddenleaf_51 Start: 35720, Stop: 36265, Start Num: 2

Candidate Starts for Hiddenleaf_51:

(Start: 2 @35720 has 35 MA's), (Start: 3 @35723 has 7 MA's), (4, 35732), (6, 35825), (8, 35855), (10, 35882), (12, 35942), (20, 36086), (22, 36134), (23, 36185),

Gene: JDawG_50 Start: 36287, Stop: 36832, Start Num: 2

Candidate Starts for JDawG_50:

(Start: 2 @36287 has 35 MA's), (Start: 3 @36290 has 7 MA's), (4, 36299), (6, 36392), (8, 36422), (10, 36449), (12, 36509), (20, 36653), (22, 36701), (23, 36752),

Gene: JingleBells_51 Start: 35822, Stop: 36367, Start Num: 2

Candidate Starts for JingleBells_51:

(Start: 2 @35822 has 35 MA's), (Start: 3 @35825 has 7 MA's), (4, 35834), (6, 35927), (8, 35957), (10, 35984), (12, 36044), (20, 36188), (22, 36236), (23, 36287),

Gene: Karate_50 Start: 36483, Stop: 37025, Start Num: 3

Candidate Starts for Karate_50:

(Start: 2 @36480 has 35 MA's), (Start: 3 @36483 has 7 MA's), (4, 36492), (6, 36585), (8, 36615), (10, 36642), (12, 36702), (20, 36846), (22, 36894), (23, 36945),

Gene: Kate_52 Start: 36590, Stop: 37135, Start Num: 2

Candidate Starts for Kate_52:

(Start: 2 @36590 has 35 MA's), (Start: 3 @36593 has 7 MA's), (4, 36602), (6, 36695), (8, 36725), (10, 36752), (11, 36809), (12, 36812), (20, 36956), (22, 37004), (23, 37055),

Gene: Kors_54 Start: 37313, Stop: 37861, Start Num: 2

Candidate Starts for Kors_54:

(Start: 2 @37313 has 35 MA's), (Start: 3 @37316 has 7 MA's), (4, 37325), (5, 37334), (6, 37418), (7, 37421), (10, 37475), (12, 37535), (13, 37547), (14, 37595), (15, 37616), (16, 37628), (17, 37655), (18, 37661), (20, 37682), (21, 37724), (22, 37730), (23, 37781), (24, 37841),

Gene: Krampus_51 Start: 36686, Stop: 37231, Start Num: 2

Candidate Starts for Krampus_51:

(Start: 2 @36686 has 35 MA's), (Start: 3 @36689 has 7 MA's), (4, 36698), (6, 36791), (8, 36821), (10, 36848), (12, 36908), (20, 37052), (22, 37100), (23, 37151),

Gene: LordBart_54 Start: 37213, Stop: 37758, Start Num: 3

Candidate Starts for LordBart_54:

(1, 37018), (Start: 2 @37210 has 35 MA's), (Start: 3 @37213 has 7 MA's), (4, 37222), (5, 37231), (6, 37315), (7, 37318), (10, 37372), (12, 37432), (13, 37444), (14, 37492), (15, 37513), (16, 37525), (17, 37552), (18, 37558), (20, 37579), (21, 37621), (22, 37627), (23, 37678), (24, 37738),

Gene: MortySmith_49 Start: 35704, Stop: 36249, Start Num: 2

Candidate Starts for MortySmith_49:

(Start: 2 @35704 has 35 MA's), (Start: 3 @35707 has 7 MA's), (4, 35716), (6, 35809), (8, 35839), (10, 35866), (12, 35926), (20, 36070), (22, 36118), (23, 36169),

Gene: NarutoRun_51 Start: 36651, Stop: 37196, Start Num: 2

Candidate Starts for NarutoRun_51:

(Start: 2 @36651 has 35 MA's), (Start: 3 @36654 has 7 MA's), (4, 36663), (6, 36756), (8, 36786), (10, 36813), (12, 36873), (20, 37017), (22, 37065), (23, 37116),

Gene: Neptune_51 Start: 36651, Stop: 37196, Start Num: 2

Candidate Starts for Neptune_51:

(Start: 2 @36651 has 35 MA's), (Start: 3 @36654 has 7 MA's), (4, 36663), (6, 36756), (8, 36786), (10, 36813), (12, 36873), (20, 37017), (22, 37065), (23, 37116),

Gene: OhDear_51 Start: 36649, Stop: 37194, Start Num: 2

Candidate Starts for OhDear_51:

(Start: 2 @36649 has 35 MA's), (Start: 3 @36652 has 7 MA's), (4, 36661), (6, 36754), (8, 36784), (10, 36811), (12, 36871), (20, 37015), (22, 37063), (23, 37114),

Gene: OverHedge_51 Start: 36548, Stop: 37093, Start Num: 2

Candidate Starts for OverHedge_51:

(Start: 2 @36548 has 35 MA's), (Start: 3 @36551 has 7 MA's), (4, 36560), (6, 36653), (8, 36683), (10, 36710), (12, 36770), (20, 36914), (22, 36962), (23, 37013),

Gene: Pharpay_51 Start: 36696, Stop: 37241, Start Num: 2

Candidate Starts for Pharpay_51:

(Start: 2 @36696 has 35 MA's), (Start: 3 @36699 has 7 MA's), (4, 36708), (6, 36801), (8, 36831), (10, 36858), (12, 36918), (20, 37062), (22, 37110), (23, 37161),

Gene: PhunaPhoke_51 Start: 36669, Stop: 37211, Start Num: 3

Candidate Starts for PhunaPhoke_51:

(Start: 2 @36666 has 35 MA's), (Start: 3 @36669 has 7 MA's), (4, 36678), (6, 36771), (8, 36801), (10, 36828), (12, 36888), (20, 37032), (22, 37080), (23, 37131),

Gene: Potty_51 Start: 36578, Stop: 37123, Start Num: 2

Candidate Starts for Potty_51:

(Start: 2 @36578 has 35 MA's), (Start: 3 @36581 has 7 MA's), (4, 36590), (6, 36683), (8, 36713), (10, 36740), (12, 36800), (20, 36944), (22, 36992), (23, 37043),

Gene: Poultruss_50 Start: 36896, Stop: 37441, Start Num: 2

Candidate Starts for Poultruss_50:

(Start: 2 @36896 has 35 MA's), (Start: 3 @36899 has 7 MA's), (4, 36908), (6, 37001), (8, 37031), (10, 37058), (12, 37118), (20, 37262), (22, 37310), (23, 37361),

Gene: Rachella_51 Start: 36677, Stop: 37222, Start Num: 2

Candidate Starts for Rachella_51:

(Start: 2 @36677 has 35 MA's), (Start: 3 @36680 has 7 MA's), (4, 36689), (6, 36782), (8, 36812), (10, 36839), (12, 36899), (20, 37043), (22, 37091), (23, 37142),

Gene: Rie18_51 Start: 36174, Stop: 36719, Start Num: 2

Candidate Starts for Rie18_51:

(Start: 2 @36174 has 35 MA's), (Start: 3 @36177 has 7 MA's), (4, 36186), (6, 36279), (8, 36309), (10, 36336), (12, 36396), (20, 36540), (22, 36588), (23, 36639),

Gene: RikSengupta_54 Start: 37338, Stop: 37886, Start Num: 2

Candidate Starts for RikSengupta_54:

(Start: 2 @37338 has 35 MA's), (Start: 3 @37341 has 7 MA's), (4, 37350), (5, 37359), (6, 37443), (7, 37446), (10, 37500), (12, 37560), (13, 37572), (14, 37620), (15, 37641), (16, 37653), (17, 37680), (18, 37686), (20, 37707), (21, 37749), (22, 37755), (23, 37806), (24, 37866),

Gene: SilentWarrior_51 Start: 35690, Stop: 36235, Start Num: 2

Candidate Starts for SilentWarrior_51:

(Start: 2 @35690 has 35 MA's), (Start: 3 @35693 has 7 MA's), (4, 35702), (6, 35795), (8, 35825), (10, 35852), (12, 35912), (20, 36056), (22, 36104), (23, 36155),

Gene: Snakehole_51 Start: 35698, Stop: 36243, Start Num: 2

Candidate Starts for Snakehole_51:

(Start: 2 @35698 has 35 MA's), (Start: 3 @35701 has 7 MA's), (4, 35710), (6, 35803), (8, 35833), (10, 35860), (12, 35920), (15, 35998), (20, 36064), (22, 36112), (23, 36163),

Gene: Sparcetus_54 Start: 37215, Stop: 37763, Start Num: 2

Candidate Starts for Sparcetus_54:

(Start: 2 @37215 has 35 MA's), (Start: 3 @37218 has 7 MA's), (4, 37227), (5, 37236), (6, 37320), (7, 37323), (10, 37377), (12, 37437), (13, 37449), (14, 37497), (15, 37518), (16, 37530), (17, 37557), (18, 37563), (20, 37584), (21, 37626), (22, 37632), (23, 37683), (24, 37743),

Gene: Tedro_51 Start: 36110, Stop: 36655, Start Num: 2

Candidate Starts for Tedro_51:

(Start: 2 @36110 has 35 MA's), (Start: 3 @36113 has 7 MA's), (4, 36122), (6, 36215), (8, 36245), (10, 36272), (12, 36332), (20, 36476), (22, 36524), (23, 36575),

Gene: TinyMiny_54 Start: 37236, Stop: 37784, Start Num: 2

Candidate Starts for TinyMiny_54:

(1, 37044), (Start: 2 @37236 has 35 MA's), (Start: 3 @37239 has 7 MA's), (4, 37248), (6, 37341), (7, 37344), (10, 37398), (12, 37458), (13, 37470), (14, 37518), (15, 37539), (16, 37551), (17, 37578), (18, 37584), (20, 37605), (21, 37647), (22, 37653), (23, 37704), (24, 37764),

Gene: Tongui_51 Start: 36092, Stop: 36634, Start Num: 3

Candidate Starts for Tongui_51:

(Start: 2 @36089 has 35 MA's), (Start: 3 @36092 has 7 MA's), (4, 36101), (6, 36194), (8, 36224), (10, 36251), (12, 36311), (19, 36452), (20, 36455), (22, 36503), (23, 36554),