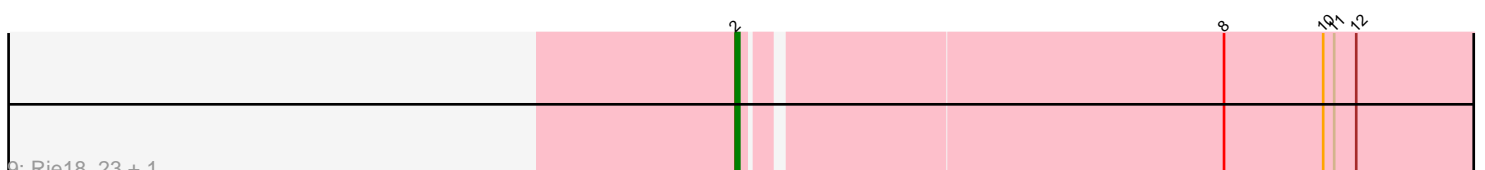
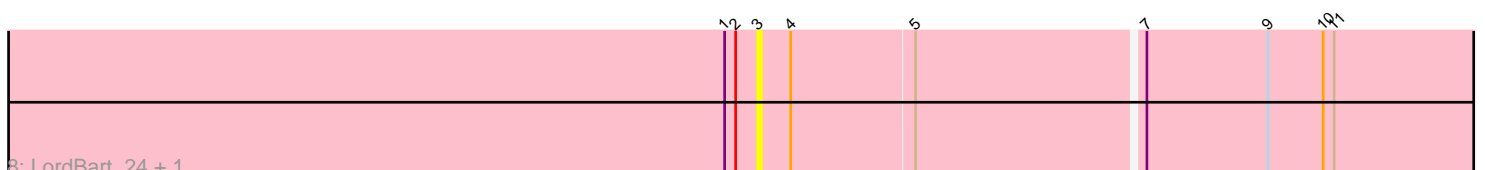
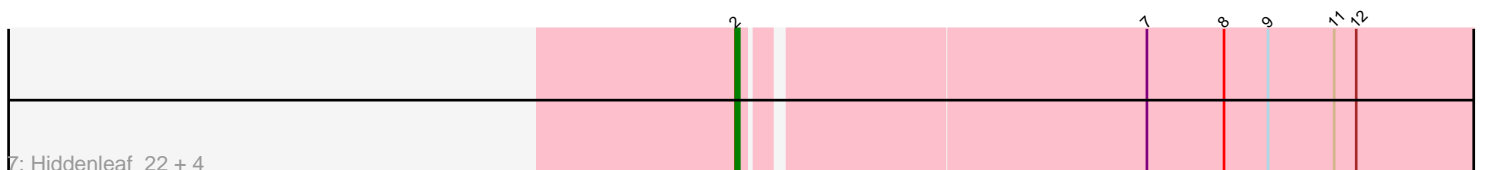
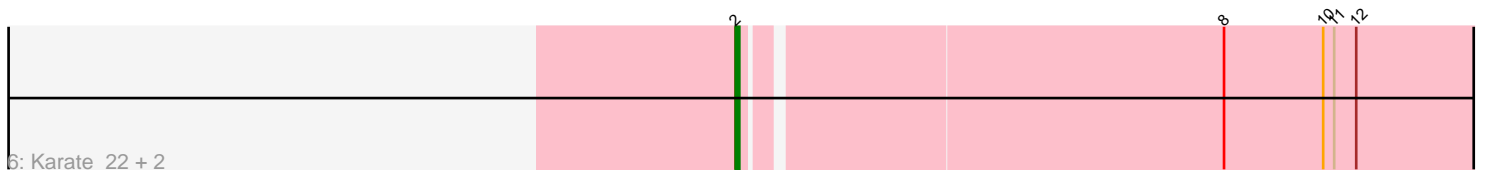
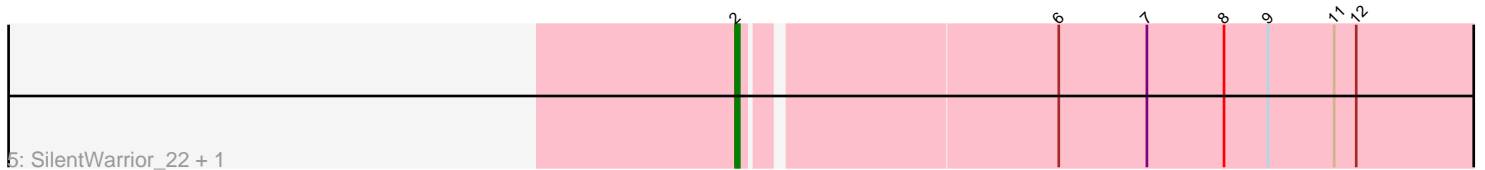
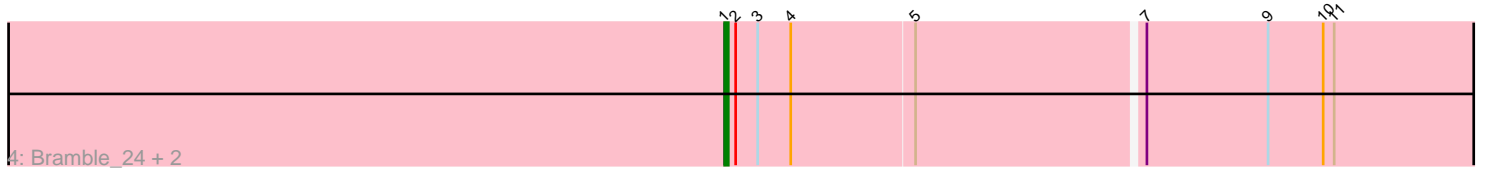
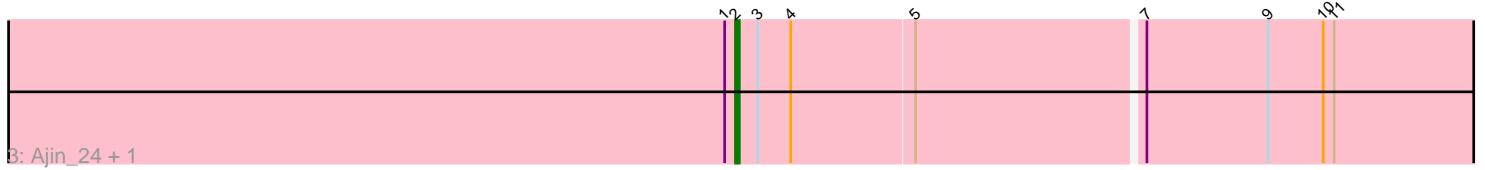
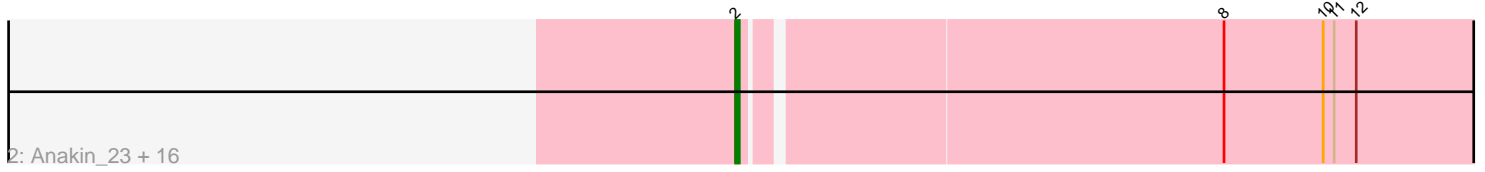
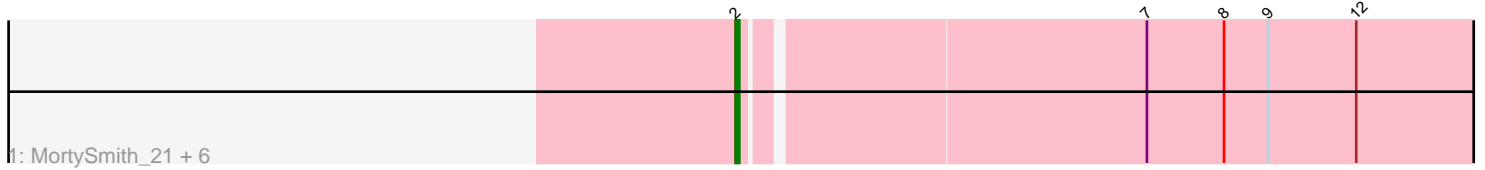


Zoomed Pham 214416



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 214416 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214416 has 43 members, 8 are drafts.

Phages represented in each track:

- Track 1 : MortySmith_21, JDawG_22, Aesir_22, Dauntless_22, Crestdrop_22, Annapurna_23, Erudite_22
- Track 2 : Anakin_23, Potty_23, Rachella_23, Poultruss_22, Neptune_23, Artiphact_23, Tedro_23, AnnaSerena_23, Cybele_23, PhunaPhoke_23, Kate_23, OverHedge_23, CoolCookie_23, Krampus_23, Pharpay_23, NarutoRun_23, Gilda_23
- Track 3 : Ajin_24, TinyMiny_24
- Track 4 : Bramble_24, RikSengupta_24, Sparcetus_24
- Track 5 : SilentWarrior_22, DannyDe_22
- Track 6 : Karate_22, Haunter_23, Tongui_23
- Track 7 : Hiddenleaf_22, Chivey_22, JingleBells_22, FreddieHg_22, Snakehole_24
- Track 8 : LordBart_24, Kors_25
- Track 9 : Rie18_23, Hager_24

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 33 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir_22, Ajin_24, Anakin_23, AnnaSerena_23, Annapurna_23, Artiphact_23, Chivey_22, CoolCookie_23, Crestdrop_22, Cybele_23, DannyDe_22, Dauntless_22, Erudite_22, FreddieHg_22, Gilda_23, Hager_24, Haunter_23, Hiddenleaf_22, JDawG_22, JingleBells_22, Karate_22, Kate_23, Krampus_23, MortySmith_21, NarutoRun_23, Neptune_23, OverHedge_23, Pharpay_23, PhunaPhoke_23, Potty_23, Poultruss_22, Rachella_23, Rie18_23, SilentWarrior_22, Snakehole_24, Tedro_23, TinyMiny_24, Tongui_23,

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

- Bramble_24, Kors_25, LordBart_24, RikSengupta_24, Sparcetus_24,

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

-

Summary by start number:

Start 1:

- Found in 7 of 43 (16.3%) of genes in pham
- Manual Annotations of this start: 2 of 35
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Bramble_24 (EF), RikSengupta_24 (EF), Sparcetus_24 (EF),

Start 2:

- Found in 43 of 43 (100.0%) of genes in pham
- Manual Annotations of this start: 33 of 35
- Called 88.4% of time when present
- Phage (with cluster) where this start called: Aesir_22 (EF), Ajin_24 (EF), Anakin_23 (EF), AnnaSerena_23 (EF), Annapurna_23 (EF), Artiphact_23 (EF), Chivey_22 (EF), CoolCookie_23 (EF), Crestdrop_22 (EF), Cybele_23 (EF), DannyDe_22 (EF), Dauntless_22 (EF), Erudite_22 (EF), FreddieHg_22 (EF), Gilda_23 (EF), Hager_24 (EF), Haunter_23 (EF), Hiddenleaf_22 (EF), JDawG_22 (EF), JingleBells_22 (EF), Karate_22 (EF), Kate_23 (EF), Krampus_23 (EF), MortySmith_21 (EF), NarutoRun_23 (EF), Neptune_23 (EF), OverHedge_23 (EF), Pharpay_23 (EF), PhunaPhoke_23 (EF), Potty_23 (EF), Poultruss_22 (EF), Rachella_23 (EF), Rie18_23 (EF), SilentWarrior_22 (EF), Snakehole_24 (EF), Tedro_23 (EF), TinyMiny_24 (EF), Tongui_23 (EF),

Start 3:

- Found in 7 of 43 (16.3%) of genes in pham
- No Manual Annotations of this start.
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Kors_25 (EF), LordBart_24 (EF),

Summary by clusters:

There is one cluster represented in this pham: EF

Info for manual annotations of cluster EF:

- Start number 1 was manually annotated 2 times for cluster EF.
- Start number 2 was manually annotated 33 times for cluster EF.

Gene Information:

Gene: Aesir_22 Start: 12181, Stop: 12609, Start Num: 2

Candidate Starts for Aesir_22:

(Start: 2 @12181 has 33 MA's), (7, 12286), (8, 12307), (9, 12319), (12, 12343), (16, 12463), (19, 12484),

Gene: Ajin_24 Start: 12379, Stop: 12810, Start Num: 2

Candidate Starts for Ajin_24:

(Start: 1 @12376 has 2 MA's), (Start: 2 @12379 has 33 MA's), (3, 12385), (4, 12394), (5, 12427), (7, 12487), (9, 12520), (10, 12535), (11, 12538), (13, 12580), (15, 12637), (17, 12667), (19, 12685), (21, 12718), (22, 12769), (23, 12784),

Gene: Anakin_23 Start: 12391, Stop: 12819, Start Num: 2

Candidate Starts for Anakin_23:

(Start: 2 @12391 has 33 MA's), (8, 12517), (10, 12544), (11, 12547), (12, 12553), (18, 12688), (20, 12724),

Gene: AnnaSerena_23 Start: 12400, Stop: 12828, Start Num: 2

Candidate Starts for AnnaSerena_23:

(Start: 2 @12400 has 33 MA's), (8, 12526), (10, 12553), (11, 12556), (12, 12562), (18, 12697), (20, 12733),

Gene: Annapurna_23 Start: 11600, Stop: 12028, Start Num: 2

Candidate Starts for Annapurna_23:

(Start: 2 @11600 has 33 MA's), (7, 11705), (8, 11726), (9, 11738), (12, 11762), (16, 11882), (19, 11903),

Gene: Artiphact_23 Start: 12392, Stop: 12820, Start Num: 2

Candidate Starts for Artiphact_23:

(Start: 2 @12392 has 33 MA's), (8, 12518), (10, 12545), (11, 12548), (12, 12554), (18, 12689), (20, 12725),

Gene: Bramble_24 Start: 12341, Stop: 12775, Start Num: 1

Candidate Starts for Bramble_24:

(Start: 1 @12341 has 2 MA's), (Start: 2 @12344 has 33 MA's), (3, 12350), (4, 12359), (5, 12392), (7, 12452), (9, 12485), (10, 12500), (11, 12503), (13, 12545), (15, 12602), (17, 12632), (19, 12650), (21, 12683), (22, 12734), (23, 12749),

Gene: Chivey_22 Start: 11593, Stop: 12021, Start Num: 2

Candidate Starts for Chivey_22:

(Start: 2 @11593 has 33 MA's), (7, 11698), (8, 11719), (9, 11731), (11, 11749), (12, 11755), (14, 11812), (16, 11875), (19, 11896),

Gene: CoolCookie_23 Start: 12398, Stop: 12826, Start Num: 2

Candidate Starts for CoolCookie_23:

(Start: 2 @12398 has 33 MA's), (8, 12524), (10, 12551), (11, 12554), (12, 12560), (18, 12695), (20, 12731),

Gene: Crestdrop_22 Start: 11467, Stop: 11895, Start Num: 2

Candidate Starts for Crestdrop_22:

(Start: 2 @11467 has 33 MA's), (7, 11572), (8, 11593), (9, 11605), (12, 11629), (16, 11749), (19, 11770),

Gene: Cybele_23 Start: 12368, Stop: 12796, Start Num: 2

Candidate Starts for Cybele_23:

(Start: 2 @12368 has 33 MA's), (8, 12494), (10, 12521), (11, 12524), (12, 12530), (18, 12665), (20, 12701),

Gene: DannyDe_22 Start: 11585, Stop: 12013, Start Num: 2

Candidate Starts for DannyDe_22:

(Start: 2 @11585 has 33 MA's), (6, 11666), (7, 11690), (8, 11711), (9, 11723), (11, 11741), (12, 11747), (14, 11804), (16, 11867), (19, 11888),

Gene: Dauntless_22 Start: 12110, Stop: 12538, Start Num: 2

Candidate Starts for Dauntless_22:

(Start: 2 @12110 has 33 MA's), (7, 12215), (8, 12236), (9, 12248), (12, 12272), (16, 12392), (19, 12413),

Gene: Erudite_22 Start: 12110, Stop: 12538, Start Num: 2

Candidate Starts for Erudite_22:

(Start: 2 @12110 has 33 MA's), (7, 12215), (8, 12236), (9, 12248), (12, 12272), (16, 12392), (19, 12413),

Gene: FreddieHg_22 Start: 11609, Stop: 12037, Start Num: 2

Candidate Starts for FreddieHg_22:

(Start: 2 @11609 has 33 MA's), (7, 11714), (8, 11735), (9, 11747), (11, 11765), (12, 11771), (14, 11828), (16, 11891), (19, 11912),

Gene: Gilda_23 Start: 12392, Stop: 12820, Start Num: 2

Candidate Starts for Gilda_23:

(Start: 2 @12392 has 33 MA's), (8, 12518), (10, 12545), (11, 12548), (12, 12554), (18, 12689), (20, 12725),

Gene: Hager_24 Start: 11963, Stop: 12391, Start Num: 2

Candidate Starts for Hager_24:

(Start: 2 @11963 has 33 MA's), (8, 12089), (10, 12116), (11, 12119), (12, 12125), (18, 12260), (19, 12266), (20, 12296), (22, 12350),

Gene: Haunter_23 Start: 11805, Stop: 12233, Start Num: 2

Candidate Starts for Haunter_23:

(Start: 2 @11805 has 33 MA's), (8, 11931), (10, 11958), (11, 11961), (12, 11967), (18, 12102), (20, 12138), (22, 12192),

Gene: Hiddenleaf_22 Start: 11593, Stop: 12021, Start Num: 2

Candidate Starts for Hiddenleaf_22:

(Start: 2 @11593 has 33 MA's), (7, 11698), (8, 11719), (9, 11731), (11, 11749), (12, 11755), (14, 11812), (16, 11875), (19, 11896),

Gene: JDawG_22 Start: 12175, Stop: 12603, Start Num: 2

Candidate Starts for JDawG_22:

(Start: 2 @12175 has 33 MA's), (7, 12280), (8, 12301), (9, 12313), (12, 12337), (16, 12457), (19, 12478),

Gene: JingleBells_22 Start: 11674, Stop: 12102, Start Num: 2

Candidate Starts for JingleBells_22:

(Start: 2 @11674 has 33 MA's), (7, 11779), (8, 11800), (9, 11812), (11, 11830), (12, 11836), (14, 11893), (16, 11956), (19, 11977),

Gene: Karate_22 Start: 11813, Stop: 12241, Start Num: 2

Candidate Starts for Karate_22:

(Start: 2 @11813 has 33 MA's), (8, 11939), (10, 11966), (11, 11969), (12, 11975), (18, 12110), (20, 12146), (22, 12200),

Gene: Kate_23 Start: 12400, Stop: 12828, Start Num: 2

Candidate Starts for Kate_23:

(Start: 2 @12400 has 33 MA's), (8, 12526), (10, 12553), (11, 12556), (12, 12562), (18, 12697), (20, 12733),

Gene: Kors_25 Start: 12431, Stop: 12856, Start Num: 3

Candidate Starts for Kors_25:

(Start: 1 @12422 has 2 MA's), (Start: 2 @12425 has 33 MA's), (3, 12431), (4, 12440), (5, 12473), (7, 12533), (9, 12566), (10, 12581), (11, 12584), (13, 12626), (15, 12683), (17, 12713), (19, 12731), (21, 12764), (22, 12815), (23, 12830),

Gene: Krampus_23 Start: 12398, Stop: 12826, Start Num: 2

Candidate Starts for Krampus_23:

(Start: 2 @12398 has 33 MA's), (8, 12524), (10, 12551), (11, 12554), (12, 12560), (18, 12695), (20, 12731),

Gene: LordBart_24 Start: 12347, Stop: 12772, Start Num: 3

Candidate Starts for LordBart_24:

(Start: 1 @12338 has 2 MA's), (Start: 2 @12341 has 33 MA's), (3, 12347), (4, 12356), (5, 12389), (7, 12449), (9, 12482), (10, 12497), (11, 12500), (13, 12542), (15, 12599), (17, 12629), (19, 12647), (21, 12680), (22, 12731), (23, 12746),

Gene: MortySmith_21 Start: 11572, Stop: 12000, Start Num: 2

Candidate Starts for MortySmith_21:

(Start: 2 @11572 has 33 MA's), (7, 11677), (8, 11698), (9, 11710), (12, 11734), (16, 11854), (19, 11875),

Gene: NarutoRun_23 Start: 12391, Stop: 12819, Start Num: 2

Candidate Starts for NarutoRun_23:

(Start: 2 @12391 has 33 MA's), (8, 12517), (10, 12544), (11, 12547), (12, 12553), (18, 12688), (20, 12724),

Gene: Neptune_23 Start: 12368, Stop: 12796, Start Num: 2

Candidate Starts for Neptune_23:

(Start: 2 @12368 has 33 MA's), (8, 12494), (10, 12521), (11, 12524), (12, 12530), (18, 12665), (20, 12701),

Gene: OverHedge_23 Start: 12365, Stop: 12793, Start Num: 2

Candidate Starts for OverHedge_23:

(Start: 2 @12365 has 33 MA's), (8, 12491), (10, 12518), (11, 12521), (12, 12527), (18, 12662), (20, 12698),

Gene: Pharpay_23 Start: 12413, Stop: 12841, Start Num: 2

Candidate Starts for Pharpay_23:

(Start: 2 @12413 has 33 MA's), (8, 12539), (10, 12566), (11, 12569), (12, 12575), (18, 12710), (20, 12746),

Gene: PhunaPhoke_23 Start: 12386, Stop: 12814, Start Num: 2

Candidate Starts for PhunaPhoke_23:

(Start: 2 @12386 has 33 MA's), (8, 12512), (10, 12539), (11, 12542), (12, 12548), (18, 12683), (20, 12719),

Gene: Potty_23 Start: 12391, Stop: 12819, Start Num: 2

Candidate Starts for Potty_23:

(Start: 2 @12391 has 33 MA's), (8, 12517), (10, 12544), (11, 12547), (12, 12553), (18, 12688), (20, 12724),

Gene: Poultruss_22 Start: 12164, Stop: 12592, Start Num: 2

Candidate Starts for Poultruss_22:

(Start: 2 @12164 has 33 MA's), (8, 12290), (10, 12317), (11, 12320), (12, 12326), (18, 12461), (20, 12497),

Gene: Rachella_23 Start: 12394, Stop: 12822, Start Num: 2

Candidate Starts for Rachella_23:

(Start: 2 @12394 has 33 MA's), (8, 12520), (10, 12547), (11, 12550), (12, 12556), (18, 12691), (20, 12727),

Gene: Rie18_23 Start: 11745, Stop: 12173, Start Num: 2

Candidate Starts for Rie18_23:

(Start: 2 @11745 has 33 MA's), (8, 11871), (10, 11898), (11, 11901), (12, 11907), (18, 12042), (19, 12048), (20, 12078), (22, 12132),

Gene: RikSengupta_24 Start: 12459, Stop: 12893, Start Num: 1

Candidate Starts for RikSengupta_24:

(Start: 1 @12459 has 2 MA's), (Start: 2 @12462 has 33 MA's), (3, 12468), (4, 12477), (5, 12510), (7, 12570), (9, 12603), (10, 12618), (11, 12621), (13, 12663), (15, 12720), (17, 12750), (19, 12768), (21, 12801), (22, 12852), (23, 12867),

Gene: SilentWarrior_22 Start: 11601, Stop: 12029, Start Num: 2

Candidate Starts for SilentWarrior_22:

(Start: 2 @11601 has 33 MA's), (6, 11682), (7, 11706), (8, 11727), (9, 11739), (11, 11757), (12, 11763), (14, 11820), (16, 11883), (19, 11904),

Gene: Snakehole_24 Start: 11690, Stop: 12118, Start Num: 2

Candidate Starts for Snakehole_24:

(Start: 2 @11690 has 33 MA's), (7, 11795), (8, 11816), (9, 11828), (11, 11846), (12, 11852), (14, 11909), (16, 11972), (19, 11993),

Gene: Sparcetus_24 Start: 12338, Stop: 12772, Start Num: 1

Candidate Starts for Sparcetus_24:

(Start: 1 @12338 has 2 MA's), (Start: 2 @12341 has 33 MA's), (3, 12347), (4, 12356), (5, 12389), (7, 12449), (9, 12482), (10, 12497), (11, 12500), (13, 12542), (15, 12599), (17, 12629), (19, 12647), (21, 12680), (22, 12731), (23, 12746),

Gene: Tedro_23 Start: 11864, Stop: 12292, Start Num: 2

Candidate Starts for Tedro_23:

(Start: 2 @11864 has 33 MA's), (8, 11990), (10, 12017), (11, 12020), (12, 12026), (18, 12161), (20, 12197),

Gene: TinyMiny_24 Start: 12360, Stop: 12791, Start Num: 2

Candidate Starts for TinyMiny_24:

(Start: 1 @12357 has 2 MA's), (Start: 2 @12360 has 33 MA's), (3, 12366), (4, 12375), (5, 12408), (7, 12468), (9, 12501), (10, 12516), (11, 12519), (13, 12561), (15, 12618), (17, 12648), (19, 12666), (21, 12699), (22, 12750), (23, 12765),

Gene: Tongui_23 Start: 11737, Stop: 12165, Start Num: 2

Candidate Starts for Tongui_23:

(Start: 2 @11737 has 33 MA's), (8, 11863), (10, 11890), (11, 11893), (12, 11899), (18, 12034), (20, 12070), (22, 12124),