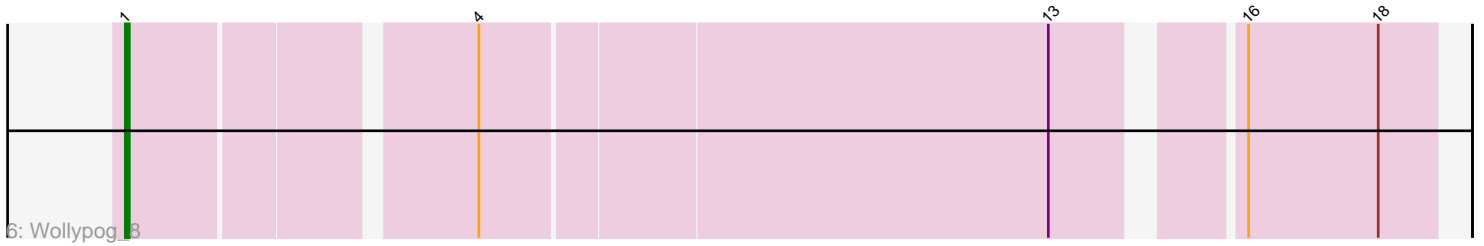
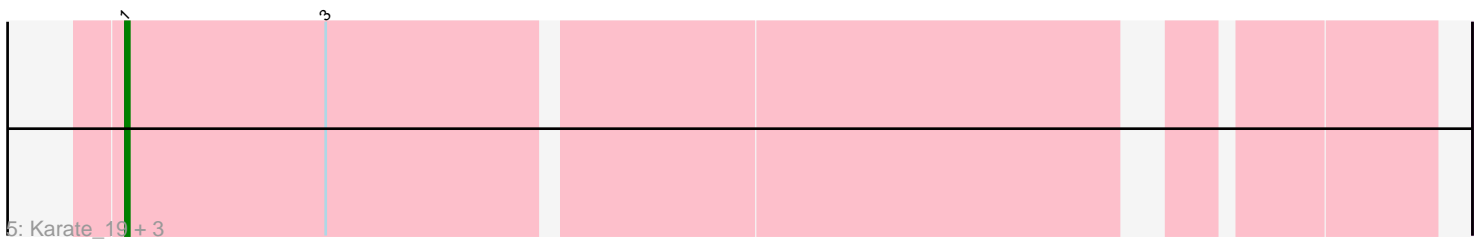
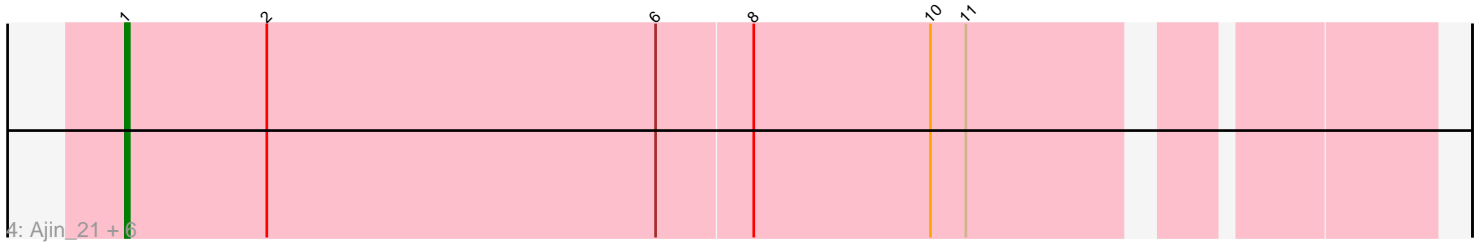
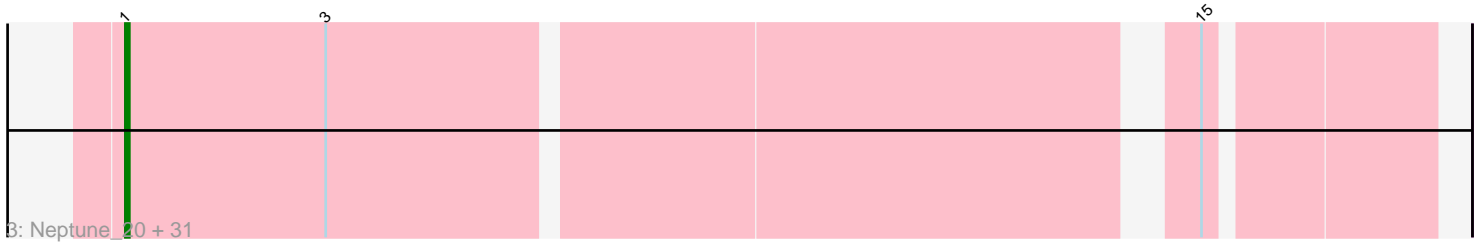
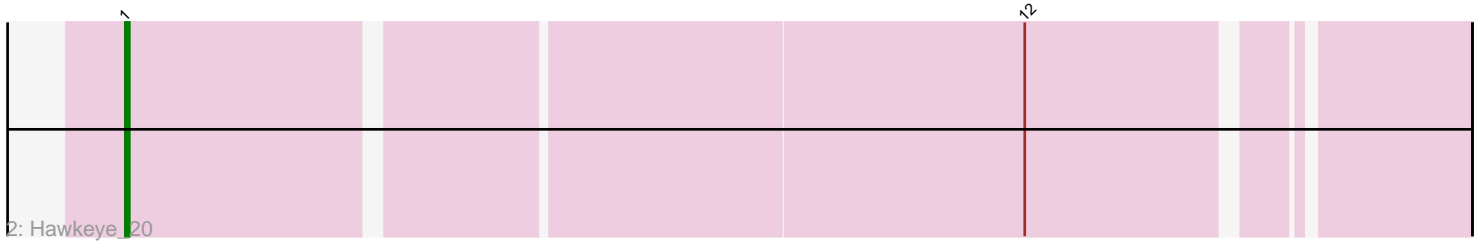
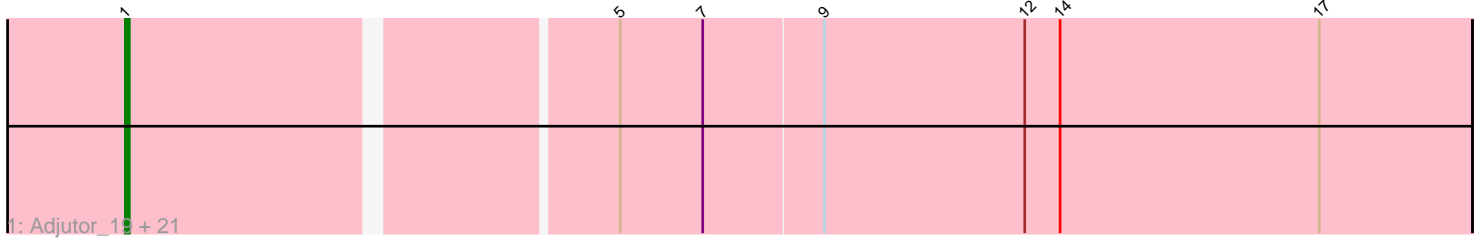


Pham 216144



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 216144 Report

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

Pham number 216144 has 67 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Adjutor_19, Erk16_18, Giuseppe_18, Penelope2018_18, Prager_18, Gumball_17, Delton_18, SirHarley_17, Mopey_18, PBI1_19, Visconti_18, Thoth_18, PLOT_19, Chill_19, BigMama_16, WaldoWhy_19, Nova_18, Butterscotch_18, KandZ_18, Phalaborwa_18, Helpful_19, Troll4_18
- Track 2 : Hawkeye_20
- Track 3 : Neptune_20, Anakin_20, JingleBells_19, Potty_20, Rachella_20, Erudite_19, AnnaSerena_20, Krampus_20, DannyDe_19, FreddieHg_19, Haunter_20, Artiphact_20, Tedro_20, MortySmith_18, OverHedge_20, PhunaPhoke_20, Cybele_20, Aesir_19, JDawG_19, SilentWarrior_19, Hiddenleaf_19, Poultruss_19, Annapurna_20, Dauntless_19, Crestdrop_19, Chivey_19, Kate_20, CoolCookie_20, Snakehole_21, NarutoRun_20, Pharpay_20, Gilda_20
- Track 4 : Ajin_21, Bramble_21, LordBart_21, TinyMiny_21, RikSengupta_21, Sparcetus_21, Kors_22
- Track 5 : Karate_19, Hager_21, Tongui_20, Rie18_20
- Track 6 : Wollypog_8

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

The start number called the most often in the published annotations is 1, it was called in 58 of the 58 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adjutor_19, Aesir_19, Ajin_21, Anakin_20, AnnaSerena_20, Annapurna_20, Artiphact_20, BigMama_16, Bramble_21, Butterscotch_18, Chill_19, Chivey_19, CoolCookie_20, Crestdrop_19, Cybele_20, DannyDe_19, Dauntless_19, Delton_18, Erk16_18, Erudite_19, FreddieHg_19, Gilda_20, Giuseppe_18, Gumball_17, Hager_21, Haunter_20, Hawkeye_20, Helpful_19, Hiddenleaf_19, JDawG_19, JingleBells_19, KandZ_18, Karate_19, Kate_20, Kors_22, Krampus_20, LordBart_21, Mopey_18, MortySmith_18, NarutoRun_20, Neptune_20, Nova_18, OverHedge_20, PBI1_19, PLOT_19, Penelope2018_18, Phalaborwa_18, Pharpay_20, PhunaPhoke_20, Potty_20, Poultruss_19, Prager_18, Rachella_20, Rie18_20, RikSengupta_21, SilentWarrior_19, SirHarley_17, Snakehole_21, Sparcetus_21, Tedro_20, Thoth_18, TinyMiny_21, Tongui_20, Troll4_18, Visconti_18, WaldoWhy_19, Wollypog_8,

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 1:

- Found in 67 of 67 (100.0%) of genes in pham
- Manual Annotations of this start: 58 of 58
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adjutor_19 (D1), Aesir_19 (EF), Ajin_21 (EF), Anakin_20 (EF), AnnaSerena_20 (EF), Annapurna_20 (EF), Artiphact_20 (EF), BigMama_16 (D1), Bramble_21 (EF), Butterscotch_18 (D1), Chill_19 (D1), Chivey_19 (EF), CoolCookie_20 (EF), Crestdrop_19 (EF), Cybele_20 (EF), DannyDe_19 (EF), Dauntless_19 (EF), Delton_18 (D1), Erk16_18 (D1), Erudite_19 (EF), FreddieHg_19 (EF), Gilda_20 (EF), Giuseppe_18 (D1), Gumball_17 (D1), Hager_21 (EF), Haunter_20 (EF), Hawkeye_20 (D2), Helpful_19 (D1), Hiddenleaf_19 (EF), JDawG_19 (EF), JingleBells_19 (EF), KandZ_18 (D1), Karate_19 (EF), Kate_20 (EF), Kors_22 (EF), Krampus_20 (EF), LordBart_21 (EF), Mopey_18 (D1), MortySmith_18 (EF), NarutoRun_20 (EF), Neptune_20 (EF), Nova_18 (D1), OverHedge_20 (EF), PBI1_19 (D1), PLOT_19 (D1), Penelope2018_18 (D1), Phalaborwa_18 (D1), Pharpay_20 (EF), PhunaPhoke_20 (EF), Potty_20 (EF), Poultruss_19 (EF), Prager_18 (D1), Rachella_20 (EF), Rie18_20 (EF), RikSengupta_21 (EF), SilentWarrior_19 (EF), SirHarley_17 (D1), Snakehole_21 (EF), Sparcetus_21 (EF), Tedro_20 (EF), Thoth_18 (D1), TinyMiny_21 (EF), Tongui_20 (EF), Troll4_18 (D1), Visconti_18 (D1), WaldoWhy_19 (D1), Wollypog_8 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, EF, D2, D1,

Info for manual annotations of cluster D1:

- Start number 1 was manually annotated 21 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 1 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster EF:

- Start number 1 was manually annotated 35 times for cluster EF.

Gene Information:

Gene: Adjutor_19 Start: 12400, Stop: 12732, Start Num: 1

Candidate Starts for Adjutor_19:

(Start: 1 @12400 has 58 MA's), (5, 12517), (7, 12538), (9, 12568), (12, 12619), (14, 12628), (17, 12694),

Gene: Aesir_19 Start: 11130, Stop: 11438, Start Num: 1

Candidate Starts for Aesir_19:
(Start: 1 @11130 has 58 MA's), (3, 11181), (15, 11385),

Gene: Ajin_21 Start: 11286, Stop: 11603, Start Num: 1
Candidate Starts for Ajin_21:
(Start: 1 @11286 has 58 MA's), (2, 11322), (6, 11421), (8, 11445), (10, 11490), (11, 11499),

Gene: Anakin_20 Start: 11340, Stop: 11648, Start Num: 1
Candidate Starts for Anakin_20:
(Start: 1 @11340 has 58 MA's), (3, 11391), (15, 11595),

Gene: AnnaSerena_20 Start: 11349, Stop: 11657, Start Num: 1
Candidate Starts for AnnaSerena_20:
(Start: 1 @11349 has 58 MA's), (3, 11400), (15, 11604),

Gene: Annapurna_20 Start: 10549, Stop: 10857, Start Num: 1
Candidate Starts for Annapurna_20:
(Start: 1 @10549 has 58 MA's), (3, 10600), (15, 10804),

Gene: Artiphact_20 Start: 11341, Stop: 11649, Start Num: 1
Candidate Starts for Artiphact_20:
(Start: 1 @11341 has 58 MA's), (3, 11392), (15, 11596),

Gene: BigMama_16 Start: 12476, Stop: 12808, Start Num: 1
Candidate Starts for BigMama_16:
(Start: 1 @12476 has 58 MA's), (5, 12593), (7, 12614), (9, 12644), (12, 12695), (14, 12704), (17, 12770),

Gene: Bramble_21 Start: 11251, Stop: 11568, Start Num: 1
Candidate Starts for Bramble_21:
(Start: 1 @11251 has 58 MA's), (2, 11287), (6, 11386), (8, 11410), (10, 11455), (11, 11464),

Gene: Butterscotch_18 Start: 12460, Stop: 12792, Start Num: 1
Candidate Starts for Butterscotch_18:
(Start: 1 @12460 has 58 MA's), (5, 12577), (7, 12598), (9, 12628), (12, 12679), (14, 12688), (17, 12754),

Gene: Chill_19 Start: 12466, Stop: 12798, Start Num: 1
Candidate Starts for Chill_19:
(Start: 1 @12466 has 58 MA's), (5, 12583), (7, 12604), (9, 12634), (12, 12685), (14, 12694), (17, 12760),

Gene: Chivey_19 Start: 10542, Stop: 10850, Start Num: 1
Candidate Starts for Chivey_19:
(Start: 1 @10542 has 58 MA's), (3, 10593), (15, 10797),

Gene: CoolCookie_20 Start: 11347, Stop: 11655, Start Num: 1
Candidate Starts for CoolCookie_20:
(Start: 1 @11347 has 58 MA's), (3, 11398), (15, 11602),

Gene: Crestdrop_19 Start: 10416, Stop: 10724, Start Num: 1
Candidate Starts for Crestdrop_19:
(Start: 1 @10416 has 58 MA's), (3, 10467), (15, 10671),

Gene: Cybele_20 Start: 11317, Stop: 11625, Start Num: 1

Candidate Starts for Cybele_20:

(Start: 1 @11317 has 58 MA's), (3, 11368), (15, 11572),

Gene: DannyDe_19 Start: 10534, Stop: 10842, Start Num: 1

Candidate Starts for DannyDe_19:

(Start: 1 @10534 has 58 MA's), (3, 10585), (15, 10789),

Gene: Dauntless_19 Start: 11059, Stop: 11367, Start Num: 1

Candidate Starts for Dauntless_19:

(Start: 1 @11059 has 58 MA's), (3, 11110), (15, 11314),

Gene: Delton_18 Start: 12472, Stop: 12804, Start Num: 1

Candidate Starts for Delton_18:

(Start: 1 @12472 has 58 MA's), (5, 12589), (7, 12610), (9, 12640), (12, 12691), (14, 12700), (17, 12766),

Gene: Erk16_18 Start: 12463, Stop: 12795, Start Num: 1

Candidate Starts for Erk16_18:

(Start: 1 @12463 has 58 MA's), (5, 12580), (7, 12601), (9, 12631), (12, 12682), (14, 12691), (17, 12757),

Gene: Erudite_19 Start: 11059, Stop: 11367, Start Num: 1

Candidate Starts for Erudite_19:

(Start: 1 @11059 has 58 MA's), (3, 11110), (15, 11314),

Gene: FreddieHg_19 Start: 10558, Stop: 10866, Start Num: 1

Candidate Starts for FreddieHg_19:

(Start: 1 @10558 has 58 MA's), (3, 10609), (15, 10813),

Gene: Gilda_20 Start: 11341, Stop: 11649, Start Num: 1

Candidate Starts for Gilda_20:

(Start: 1 @11341 has 58 MA's), (3, 11392), (15, 11596),

Gene: Giuseppe_18 Start: 12452, Stop: 12784, Start Num: 1

Candidate Starts for Giuseppe_18:

(Start: 1 @12452 has 58 MA's), (5, 12569), (7, 12590), (9, 12620), (12, 12671), (14, 12680), (17, 12746),

Gene: Gumball_17 Start: 12410, Stop: 12742, Start Num: 1

Candidate Starts for Gumball_17:

(Start: 1 @12410 has 58 MA's), (5, 12527), (7, 12548), (9, 12578), (12, 12629), (14, 12638), (17, 12704),

Gene: Hager_21 Start: 10912, Stop: 11220, Start Num: 1

Candidate Starts for Hager_21:

(Start: 1 @10912 has 58 MA's), (3, 10963),

Gene: Haunter_20 Start: 10754, Stop: 11062, Start Num: 1

Candidate Starts for Haunter_20:

(Start: 1 @10754 has 58 MA's), (3, 10805), (15, 11009),

Gene: Hawkeye_20 Start: 12347, Stop: 12667, Start Num: 1
Candidate Starts for Hawkeye_20:
(Start: 1 @12347 has 58 MA's), (12, 12566),

Gene: Helpful_19 Start: 12460, Stop: 12792, Start Num: 1
Candidate Starts for Helpful_19:
(Start: 1 @12460 has 58 MA's), (5, 12577), (7, 12598), (9, 12628), (12, 12679), (14, 12688), (17, 12754),

Gene: Hiddenleaf_19 Start: 10542, Stop: 10850, Start Num: 1
Candidate Starts for Hiddenleaf_19:
(Start: 1 @10542 has 58 MA's), (3, 10593), (15, 10797),

Gene: JDawG_19 Start: 11124, Stop: 11432, Start Num: 1
Candidate Starts for JDawG_19:
(Start: 1 @11124 has 58 MA's), (3, 11175), (15, 11379),

Gene: JingleBells_19 Start: 10623, Stop: 10931, Start Num: 1
Candidate Starts for JingleBells_19:
(Start: 1 @10623 has 58 MA's), (3, 10674), (15, 10878),

Gene: KandZ_18 Start: 12560, Stop: 12892, Start Num: 1
Candidate Starts for KandZ_18:
(Start: 1 @12560 has 58 MA's), (5, 12677), (7, 12698), (9, 12728), (12, 12779), (14, 12788), (17, 12854),

Gene: Karate_19 Start: 10762, Stop: 11070, Start Num: 1
Candidate Starts for Karate_19:
(Start: 1 @10762 has 58 MA's), (3, 10813),

Gene: Kate_20 Start: 11349, Stop: 11657, Start Num: 1
Candidate Starts for Kate_20:
(Start: 1 @11349 has 58 MA's), (3, 11400), (15, 11604),

Gene: Kors_22 Start: 11332, Stop: 11649, Start Num: 1
Candidate Starts for Kors_22:
(Start: 1 @11332 has 58 MA's), (2, 11368), (6, 11467), (8, 11491), (10, 11536), (11, 11545),

Gene: Krampus_20 Start: 11347, Stop: 11655, Start Num: 1
Candidate Starts for Krampus_20:
(Start: 1 @11347 has 58 MA's), (3, 11398), (15, 11602),

Gene: LordBart_21 Start: 11248, Stop: 11565, Start Num: 1
Candidate Starts for LordBart_21:
(Start: 1 @11248 has 58 MA's), (2, 11284), (6, 11383), (8, 11407), (10, 11452), (11, 11461),

Gene: Mopey_18 Start: 12460, Stop: 12792, Start Num: 1
Candidate Starts for Mopey_18:
(Start: 1 @12460 has 58 MA's), (5, 12577), (7, 12598), (9, 12628), (12, 12679), (14, 12688), (17, 12754),

Gene: MortySmith_18 Start: 10521, Stop: 10829, Start Num: 1
Candidate Starts for MortySmith_18:

(Start: 1 @10521 has 58 MA's), (3, 10572), (15, 10776),

Gene: NarutoRun_20 Start: 11340, Stop: 11648, Start Num: 1

Candidate Starts for NarutoRun_20:

(Start: 1 @11340 has 58 MA's), (3, 11391), (15, 11595),

Gene: Neptune_20 Start: 11317, Stop: 11625, Start Num: 1

Candidate Starts for Neptune_20:

(Start: 1 @11317 has 58 MA's), (3, 11368), (15, 11572),

Gene: Nova_18 Start: 12887, Stop: 13219, Start Num: 1

Candidate Starts for Nova_18:

(Start: 1 @12887 has 58 MA's), (5, 13004), (7, 13025), (9, 13055), (12, 13106), (14, 13115), (17, 13181),

Gene: OverHedge_20 Start: 11314, Stop: 11622, Start Num: 1

Candidate Starts for OverHedge_20:

(Start: 1 @11314 has 58 MA's), (3, 11365), (15, 11569),

Gene: PBI1_19 Start: 12391, Stop: 12723, Start Num: 1

Candidate Starts for PBI1_19:

(Start: 1 @12391 has 58 MA's), (5, 12508), (7, 12529), (9, 12559), (12, 12610), (14, 12619), (17, 12685),

Gene: PLOT_19 Start: 12463, Stop: 12795, Start Num: 1

Candidate Starts for PLOT_19:

(Start: 1 @12463 has 58 MA's), (5, 12580), (7, 12601), (9, 12631), (12, 12682), (14, 12691), (17, 12757),

Gene: Penelope2018_18 Start: 12460, Stop: 12792, Start Num: 1

Candidate Starts for Penelope2018_18:

(Start: 1 @12460 has 58 MA's), (5, 12577), (7, 12598), (9, 12628), (12, 12679), (14, 12688), (17, 12754),

Gene: Phalaborwa_18 Start: 12493, Stop: 12825, Start Num: 1

Candidate Starts for Phalaborwa_18:

(Start: 1 @12493 has 58 MA's), (5, 12610), (7, 12631), (9, 12661), (12, 12712), (14, 12721), (17, 12787),

Gene: Pharpay_20 Start: 11362, Stop: 11670, Start Num: 1

Candidate Starts for Pharpay_20:

(Start: 1 @11362 has 58 MA's), (3, 11413), (15, 11617),

Gene: PhunaPhoke_20 Start: 11335, Stop: 11643, Start Num: 1

Candidate Starts for PhunaPhoke_20:

(Start: 1 @11335 has 58 MA's), (3, 11386), (15, 11590),

Gene: Potty_20 Start: 11340, Stop: 11648, Start Num: 1

Candidate Starts for Potty_20:

(Start: 1 @11340 has 58 MA's), (3, 11391), (15, 11595),

Gene: Poultruss_19 Start: 11113, Stop: 11421, Start Num: 1

Candidate Starts for Poultruss_19:

(Start: 1 @11113 has 58 MA's), (3, 11164), (15, 11368),

Gene: Prager_18 Start: 12472, Stop: 12804, Start Num: 1

Candidate Starts for Prager_18:

(Start: 1 @12472 has 58 MA's), (5, 12589), (7, 12610), (9, 12640), (12, 12691), (14, 12700), (17, 12766),

Gene: Rachella_20 Start: 11343, Stop: 11651, Start Num: 1

Candidate Starts for Rachella_20:

(Start: 1 @11343 has 58 MA's), (3, 11394), (15, 11598),

Gene: Rie18_20 Start: 10694, Stop: 11002, Start Num: 1

Candidate Starts for Rie18_20:

(Start: 1 @10694 has 58 MA's), (3, 10745),

Gene: RikSengupta_21 Start: 11369, Stop: 11686, Start Num: 1

Candidate Starts for RikSengupta_21:

(Start: 1 @11369 has 58 MA's), (2, 11405), (6, 11504), (8, 11528), (10, 11573), (11, 11582),

Gene: SilentWarrior_19 Start: 10550, Stop: 10858, Start Num: 1

Candidate Starts for SilentWarrior_19:

(Start: 1 @10550 has 58 MA's), (3, 10601), (15, 10805),

Gene: SirHarley_17 Start: 12392, Stop: 12724, Start Num: 1

Candidate Starts for SirHarley_17:

(Start: 1 @12392 has 58 MA's), (5, 12509), (7, 12530), (9, 12560), (12, 12611), (14, 12620), (17, 12686),

Gene: Snakehole_21 Start: 10639, Stop: 10947, Start Num: 1

Candidate Starts for Snakehole_21:

(Start: 1 @10639 has 58 MA's), (3, 10690), (15, 10894),

Gene: Sparcetus_21 Start: 11248, Stop: 11565, Start Num: 1

Candidate Starts for Sparcetus_21:

(Start: 1 @11248 has 58 MA's), (2, 11284), (6, 11383), (8, 11407), (10, 11452), (11, 11461),

Gene: Tedro_20 Start: 10813, Stop: 11121, Start Num: 1

Candidate Starts for Tedro_20:

(Start: 1 @10813 has 58 MA's), (3, 10864), (15, 11068),

Gene: Thoth_18 Start: 12457, Stop: 12789, Start Num: 1

Candidate Starts for Thoth_18:

(Start: 1 @12457 has 58 MA's), (5, 12574), (7, 12595), (9, 12625), (12, 12676), (14, 12685), (17, 12751),

Gene: TinyMiny_21 Start: 11267, Stop: 11584, Start Num: 1

Candidate Starts for TinyMiny_21:

(Start: 1 @11267 has 58 MA's), (2, 11303), (6, 11402), (8, 11426), (10, 11471), (11, 11480),

Gene: Tongui_20 Start: 10686, Stop: 10994, Start Num: 1

Candidate Starts for Tongui_20:

(Start: 1 @10686 has 58 MA's), (3, 10737),

Gene: Troll4_18 Start: 12461, Stop: 12793, Start Num: 1

Candidate Starts for Troll4_18:

(Start: 1 @12461 has 58 MA's), (5, 12578), (7, 12599), (9, 12629), (12, 12680), (14, 12689), (17, 12755),

Gene: Visconti_18 Start: 12470, Stop: 12802, Start Num: 1

Candidate Starts for Visconti_18:

(Start: 1 @12470 has 58 MA's), (5, 12587), (7, 12608), (9, 12638), (12, 12689), (14, 12698), (17, 12764),

Gene: WaldoWhy_19 Start: 12466, Stop: 12798, Start Num: 1

Candidate Starts for WaldoWhy_19:

(Start: 1 @12466 has 58 MA's), (5, 12583), (7, 12604), (9, 12634), (12, 12685), (14, 12694), (17, 12760),

Gene: Wollypog_8 Start: 7934, Stop: 8242, Start Num: 1

Candidate Starts for Wollypog_8:

(Start: 1 @7934 has 58 MA's), (4, 8015), (13, 8156), (16, 8195), (18, 8228),