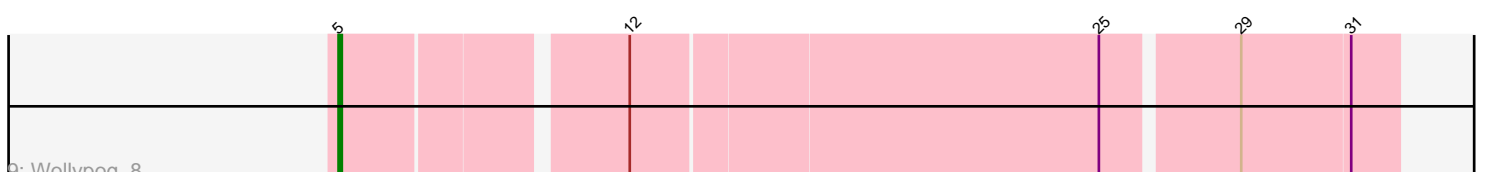
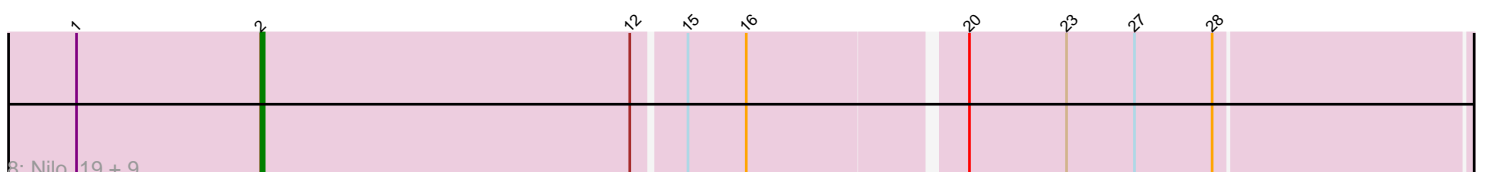
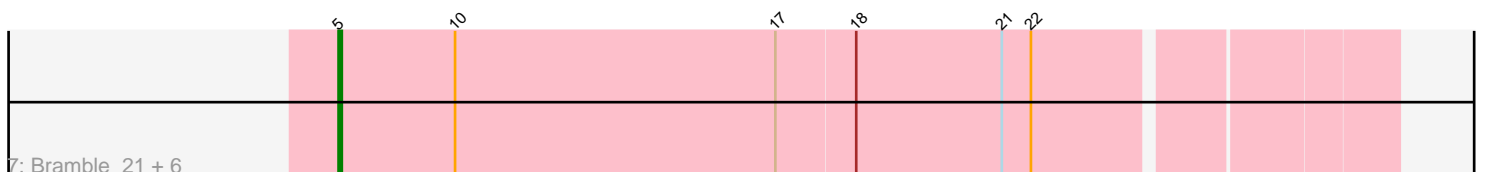
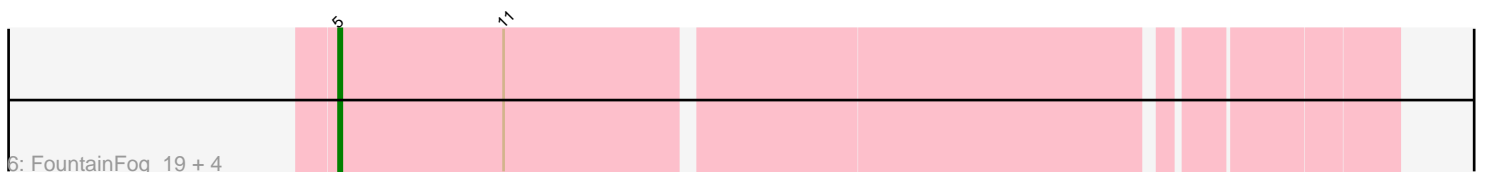
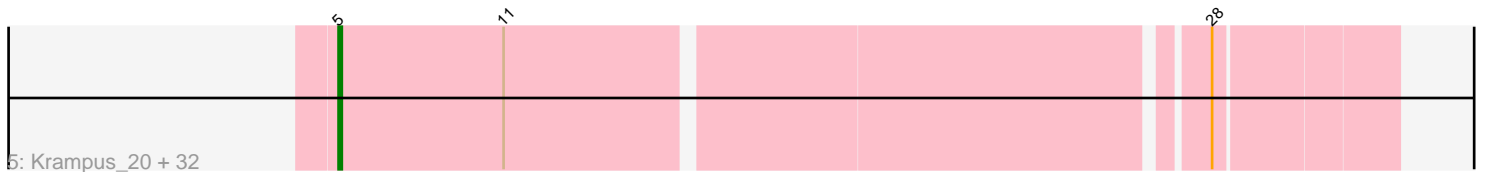
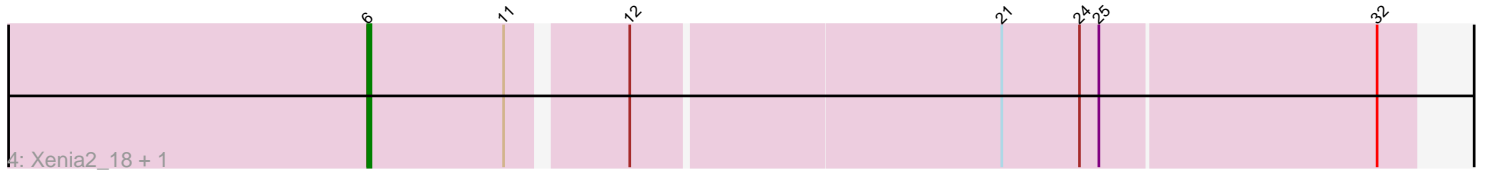
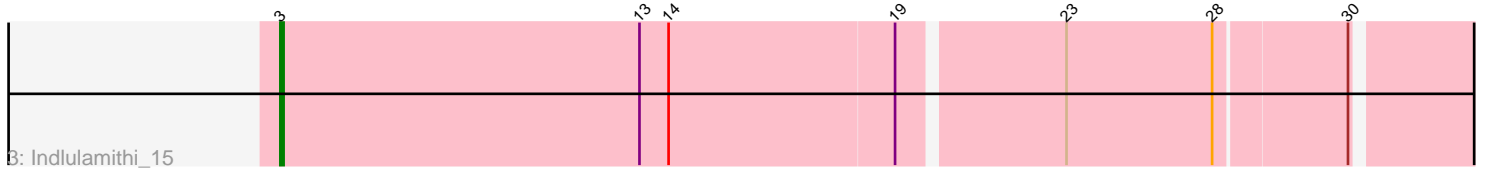
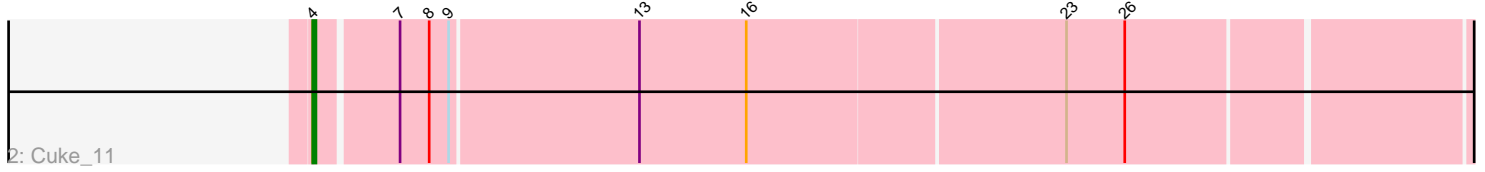
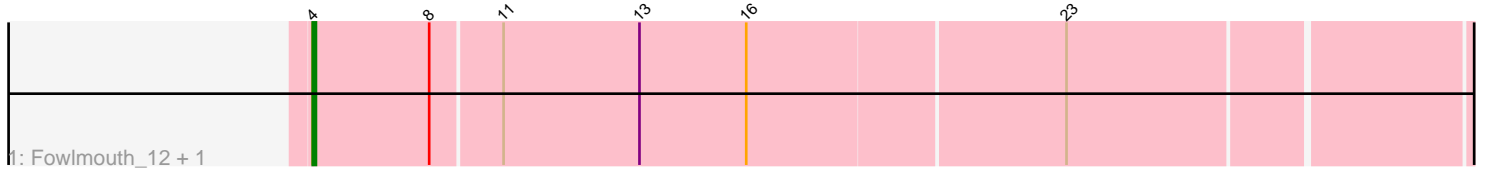


Pham 305018



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 305018 Report

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

Pham number 305018 has 62 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Fowlmouth_12, MrMiyagi_12
- Track 2 : Cuke_11
- Track 3 : Indlulamithi_15
- Track 4 : Xenia2_18, DumpTruck_17
- Track 5 : Krampus_20, OhDear_20, Crestdrop_19, Anakin_20, JingleBells_19, Potty_20, Rachella_20, Erudite_19, AnnaSerena_20, Kate_20, Neptune_20, FreddieHg_19, Haunter_20, Artiphact_20, DannyDe_19, Tedro_20, MortySmith_18, OverHedge_20, PhunaPhoke_20, Cybele_20, Annapurna_19, JDawG_19, SilentWarrior_19, Hiddenleaf_19, Aesir_19, Poultruss_19, Dauntless_19, CoolCookie_20, Chivey_19, Gilda_20, Snakehole_21, NarutoRun_20, Pharpay_20
- Track 6 : FountainFog_19, Tongui_19, Karate_19, Hager_21, Rie18_20
- Track 7 : Bramble_21, LordBart_21, TinyMiny_21, RikSengupta_21, Sparcetus_21, Ajin_21, Kors_21
- Track 8 : Nilo_19, Papyrus_18, Send513_18, Zenon_19, Rope_18, Weiss13_18, Riparian_18, MontyDev_18, Candle_18, Yelo_18
- Track 9 : 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 5, it was called in 43 of the 59 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir_19, Ajin_21, Anakin_20, AnnaSerena_20, Annapurna_19, Artiphact_20, Bramble_21, Chivey_19, CoolCookie_20, Crestdrop_19, Cybele_20, DannyDe_19, Dauntless_19, Erudite_19, FountainFog_19, FreddieHg_19, Gilda_20, Hager_21, Haunter_20, Hiddenleaf_19, JDawG_19, JingleBells_19, Karate_19, Kate_20, Kors_21, Krampus_20, LordBart_21, MortySmith_18, NarutoRun_20, Neptune_20, OhDear_20, OverHedge_20, Pharpay_20, PhunaPhoke_20, Potty_20, Poultruss_19, Rachella_20, Rie18_20, RikSengupta_21, SilentWarrior_19, Snakehole_21, Sparcetus_21, Tedro_20, TinyMiny_21, Tongui_19, Wollypog_8,

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

-

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

- Candle_18, Cuke_11, DumpTruck_17, Fowlmouth_12, Indlulamithi_15, MontyDev_18, MrMiyagi_12, Nilo_19, Papyrus_18, Riparian_18, Rope_18, Send513_18, Weiss13_18, Xenia2_18, Yelo_18, Zenon_19,

Summary by start number:

Start 2:

- Found in 10 of 62 (16.1%) of genes in pham
- Manual Annotations of this start: 10 of 59
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Candle_18 (R), MontyDev_18 (R), Nilo_19 (R), Papyrus_18 (R), Riparian_18 (R), Rope_18 (R), Send513_18 (R), Weiss13_18 (R), Yelo_18 (R), Zenon_19 (R),

Start 3:

- Found in 1 of 62 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 59
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Indlulamithi_15 (AC),

Start 4:

- Found in 3 of 62 (4.8%) of genes in pham
- Manual Annotations of this start: 3 of 59
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cuke_11 (AC), Fowlmouth_12 (AC), MrMiyagi_12 (AC),

Start 5:

- Found in 46 of 62 (74.2%) of genes in pham
- Manual Annotations of this start: 43 of 59
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aesir_19 (EF), Ajin_21 (EF), Anakin_20 (EF), AnnaSerena_20 (EF), Annapurna_19 (EF), Artiphact_20 (EF), Bramble_21 (EF), Chivey_19 (EF), CoolCookie_20 (EF), Crestdrop_19 (EF), Cybele_20 (EF), DannyDe_19 (EF), Dauntless_19 (EF), Erudite_19 (EF), FountainFog_19 (EF), FreddieHg_19 (EF), Gilda_20 (EF), Hager_21 (EF), Haunter_20 (EF), Hiddenleaf_19 (EF), JDawG_19 (EF), JingleBells_19 (EF), Karate_19 (EF), Kate_20 (EF), Kors_21 (EF), Krampus_20 (EF), LordBart_21 (EF), MortySmith_18 (EF), NarutoRun_20 (EF), Neptune_20 (EF), OhDear_20 (EF), OverHedge_20 (EF), Pharpay_20 (EF), PhunaPhoke_20 (EF), Potty_20 (EF), Poultruss_19 (EF), Rachella_20 (EF), Rie18_20 (EF), RikSengupta_21 (EF), SilentWarrior_19 (EF), Snakehole_21 (EF), Sparcetus_21 (EF), Tedro_20 (EF), TinyMiny_21 (EF), Tongui_19 (EF), Wollypog_8 (singleton),

Start 6:

- Found in 2 of 62 (3.2%) of genes in pham
- Manual Annotations of this start: 2 of 59
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DumpTruck_17 (DV), Xenia2_18 (DV),

Summary by clusters:

There are 5 clusters represented in this pham: DV, R, EF, AC, singleton,

Info for manual annotations of cluster AC:

- Start number 3 was manually annotated 1 time for cluster AC.
- Start number 4 was manually annotated 3 times for cluster AC.

Info for manual annotations of cluster DV:

- Start number 6 was manually annotated 2 times for cluster DV.

Info for manual annotations of cluster EF:

- Start number 5 was manually annotated 42 times for cluster EF.

Info for manual annotations of cluster R:

- Start number 2 was manually annotated 10 times for cluster R.

Gene Information:

Gene: Aesir_19 Start: 11130, Stop: 11438, Start Num: 5

Candidate Starts for Aesir_19:

(Start: 5 @11130 has 43 MA's), (11, 11181), (28, 11385),

Gene: Ajin_21 Start: 11286, Stop: 11603, Start Num: 5

Candidate Starts for Ajin_21:

(Start: 5 @11286 has 43 MA's), (10, 11322), (17, 11421), (18, 11445), (21, 11490), (22, 11499),

Gene: Anakin_20 Start: 11340, Stop: 11648, Start Num: 5

Candidate Starts for Anakin_20:

(Start: 5 @11340 has 43 MA's), (11, 11391), (28, 11595),

Gene: AnnaSerena_20 Start: 11349, Stop: 11657, Start Num: 5

Candidate Starts for AnnaSerena_20:

(Start: 5 @11349 has 43 MA's), (11, 11400), (28, 11604),

Gene: Annapurna_19 Start: 10549, Stop: 10857, Start Num: 5

Candidate Starts for Annapurna_19:

(Start: 5 @10549 has 43 MA's), (11, 10600), (28, 10804),

Gene: Artiphact_20 Start: 11341, Stop: 11649, Start Num: 5

Candidate Starts for Artiphact_20:

(Start: 5 @11341 has 43 MA's), (11, 11392), (28, 11596),

Gene: Bramble_21 Start: 11251, Stop: 11568, Start Num: 5

Candidate Starts for Bramble_21:

(Start: 5 @11251 has 43 MA's), (10, 11287), (17, 11386), (18, 11410), (21, 11455), (22, 11464),

Gene: Candle_18 Start: 12792, Stop: 13160, Start Num: 2

Candidate Starts for Candle_18:

(1, 12735), (Start: 2 @12792 has 10 MA's), (12, 12906), (15, 12921), (16, 12939), (20, 13002), (23, 13032), (27, 13053), (28, 13077),

Gene: Chivey_19 Start: 10542, Stop: 10850, Start Num: 5
Candidate Starts for Chivey_19:
(Start: 5 @10542 has 43 MA's), (11, 10593), (28, 10797),

Gene: CoolCookie_20 Start: 11347, Stop: 11655, Start Num: 5
Candidate Starts for CoolCookie_20:
(Start: 5 @11347 has 43 MA's), (11, 11398), (28, 11602),

Gene: Crestdrop_19 Start: 10416, Stop: 10724, Start Num: 5
Candidate Starts for Crestdrop_19:
(Start: 5 @10416 has 43 MA's), (11, 10467), (28, 10671),

Gene: Cuke_11 Start: 7988, Stop: 8332, Start Num: 4
Candidate Starts for Cuke_11:
(Start: 4 @7988 has 3 MA's), (7, 8012), (8, 8021), (9, 8027), (13, 8084), (16, 8117), (23, 8213), (26, 8231),

Gene: Cybele_20 Start: 11317, Stop: 11625, Start Num: 5
Candidate Starts for Cybele_20:
(Start: 5 @11317 has 43 MA's), (11, 11368), (28, 11572),

Gene: DannyDe_19 Start: 10534, Stop: 10842, Start Num: 5
Candidate Starts for DannyDe_19:
(Start: 5 @10534 has 43 MA's), (11, 10585), (28, 10789),

Gene: Dauntless_19 Start: 11059, Stop: 11367, Start Num: 5
Candidate Starts for Dauntless_19:
(Start: 5 @11059 has 43 MA's), (11, 11110), (28, 11314),

Gene: DumpTruck_17 Start: 12984, Stop: 13295, Start Num: 6
Candidate Starts for DumpTruck_17:
(Start: 6 @12984 has 2 MA's), (11, 13026), (12, 13059), (21, 13170), (24, 13194), (25, 13200), (32, 13284),

Gene: Erudite_19 Start: 11059, Stop: 11367, Start Num: 5
Candidate Starts for Erudite_19:
(Start: 5 @11059 has 43 MA's), (11, 11110), (28, 11314),

Gene: FountainFog_19 Start: 10668, Stop: 10976, Start Num: 5
Candidate Starts for FountainFog_19:
(Start: 5 @10668 has 43 MA's), (11, 10719),

Gene: Fowlmouth_12 Start: 8156, Stop: 8503, Start Num: 4
Candidate Starts for Fowlmouth_12:
(Start: 4 @8156 has 3 MA's), (8, 8192), (11, 8213), (13, 8255), (16, 8288), (23, 8384),

Gene: FreddieHg_19 Start: 10558, Stop: 10866, Start Num: 5
Candidate Starts for FreddieHg_19:
(Start: 5 @10558 has 43 MA's), (11, 10609), (28, 10813),

Gene: Gilda_20 Start: 11341, Stop: 11649, Start Num: 5
Candidate Starts for Gilda_20:
(Start: 5 @11341 has 43 MA's), (11, 11392), (28, 11596),

Gene: Hager_21 Start: 10912, Stop: 11220, Start Num: 5

Candidate Starts for Hager_21:

(Start: 5 @10912 has 43 MA's), (11, 10963),

Gene: Haunter_20 Start: 10754, Stop: 11062, Start Num: 5

Candidate Starts for Haunter_20:

(Start: 5 @10754 has 43 MA's), (11, 10805), (28, 11009),

Gene: Hiddenleaf_19 Start: 10542, Stop: 10850, Start Num: 5

Candidate Starts for Hiddenleaf_19:

(Start: 5 @10542 has 43 MA's), (11, 10593), (28, 10797),

Gene: Indlulamithi_15 Start: 10237, Stop: 10599, Start Num: 3

Candidate Starts for Indlulamithi_15:

(Start: 3 @10237 has 1 MA's), (13, 10348), (14, 10357), (19, 10426), (23, 10474), (28, 10519), (30, 10558),

Gene: JDawG_19 Start: 11124, Stop: 11432, Start Num: 5

Candidate Starts for JDawG_19:

(Start: 5 @11124 has 43 MA's), (11, 11175), (28, 11379),

Gene: JingleBells_19 Start: 10623, Stop: 10931, Start Num: 5

Candidate Starts for JingleBells_19:

(Start: 5 @10623 has 43 MA's), (11, 10674), (28, 10878),

Gene: Karate_19 Start: 10762, Stop: 11070, Start Num: 5

Candidate Starts for Karate_19:

(Start: 5 @10762 has 43 MA's), (11, 10813),

Gene: Kate_20 Start: 11349, Stop: 11657, Start Num: 5

Candidate Starts for Kate_20:

(Start: 5 @11349 has 43 MA's), (11, 11400), (28, 11604),

Gene: Kors_21 Start: 11332, Stop: 11649, Start Num: 5

Candidate Starts for Kors_21:

(Start: 5 @11332 has 43 MA's), (10, 11368), (17, 11467), (18, 11491), (21, 11536), (22, 11545),

Gene: Krampus_20 Start: 11347, Stop: 11655, Start Num: 5

Candidate Starts for Krampus_20:

(Start: 5 @11347 has 43 MA's), (11, 11398), (28, 11602),

Gene: LordBart_21 Start: 11248, Stop: 11565, Start Num: 5

Candidate Starts for LordBart_21:

(Start: 5 @11248 has 43 MA's), (10, 11284), (17, 11383), (18, 11407), (21, 11452), (22, 11461),

Gene: MontyDev_18 Start: 12450, Stop: 12818, Start Num: 2

Candidate Starts for MontyDev_18:

(1, 12393), (Start: 2 @12450 has 10 MA's), (12, 12564), (15, 12579), (16, 12597), (20, 12660), (23, 12690), (27, 12711), (28, 12735),

Gene: MortySmith_18 Start: 10521, Stop: 10829, Start Num: 5

Candidate Starts for MortySmith_18:

(Start: 5 @10521 has 43 MA's), (11, 10572), (28, 10776),

Gene: MrMiyagi_12 Start: 8156, Stop: 8503, Start Num: 4

Candidate Starts for MrMiyagi_12:

(Start: 4 @8156 has 3 MA's), (8, 8192), (11, 8213), (13, 8255), (16, 8288), (23, 8384),

Gene: NarutoRun_20 Start: 11340, Stop: 11648, Start Num: 5

Candidate Starts for NarutoRun_20:

(Start: 5 @11340 has 43 MA's), (11, 11391), (28, 11595),

Gene: Neptune_20 Start: 11317, Stop: 11625, Start Num: 5

Candidate Starts for Neptune_20:

(Start: 5 @11317 has 43 MA's), (11, 11368), (28, 11572),

Gene: Nilo_19 Start: 12789, Stop: 13157, Start Num: 2

Candidate Starts for Nilo_19:

(1, 12732), (Start: 2 @12789 has 10 MA's), (12, 12903), (15, 12918), (16, 12936), (20, 12999), (23, 13029), (27, 13050), (28, 13074),

Gene: OhDear_20 Start: 11346, Stop: 11654, Start Num: 5

Candidate Starts for OhDear_20:

(Start: 5 @11346 has 43 MA's), (11, 11397), (28, 11601),

Gene: OverHedge_20 Start: 11314, Stop: 11622, Start Num: 5

Candidate Starts for OverHedge_20:

(Start: 5 @11314 has 43 MA's), (11, 11365), (28, 11569),

Gene: Papyrus_18 Start: 12451, Stop: 12819, Start Num: 2

Candidate Starts for Papyrus_18:

(1, 12394), (Start: 2 @12451 has 10 MA's), (12, 12565), (15, 12580), (16, 12598), (20, 12661), (23, 12691), (27, 12712), (28, 12736),

Gene: Pharpay_20 Start: 11362, Stop: 11670, Start Num: 5

Candidate Starts for Pharpay_20:

(Start: 5 @11362 has 43 MA's), (11, 11413), (28, 11617),

Gene: PhunaPhoke_20 Start: 11335, Stop: 11643, Start Num: 5

Candidate Starts for PhunaPhoke_20:

(Start: 5 @11335 has 43 MA's), (11, 11386), (28, 11590),

Gene: Potty_20 Start: 11340, Stop: 11648, Start Num: 5

Candidate Starts for Potty_20:

(Start: 5 @11340 has 43 MA's), (11, 11391), (28, 11595),

Gene: Poultriss_19 Start: 11113, Stop: 11421, Start Num: 5

Candidate Starts for Poultriss_19:

(Start: 5 @11113 has 43 MA's), (11, 11164), (28, 11368),

Gene: Rachella_20 Start: 11343, Stop: 11651, Start Num: 5

Candidate Starts for Rachella_20:

(Start: 5 @11343 has 43 MA's), (11, 11394), (28, 11598),

Gene: Rie18_20 Start: 10694, Stop: 11002, Start Num: 5

Candidate Starts for Rie18_20:
(Start: 5 @10694 has 43 MA's), (11, 10745),

Gene: RikSengupta_21 Start: 11369, Stop: 11686, Start Num: 5
Candidate Starts for RikSengupta_21:
(Start: 5 @11369 has 43 MA's), (10, 11405), (17, 11504), (18, 11528), (21, 11573), (22, 11582),

Gene: Riparian_18 Start: 12250, Stop: 12618, Start Num: 2
Candidate Starts for Riparian_18:
(1, 12193), (Start: 2 @12250 has 10 MA's), (12, 12364), (15, 12379), (16, 12397), (20, 12460), (23, 12490), (27, 12511), (28, 12535),

Gene: Rope_18 Start: 12442, Stop: 12810, Start Num: 2
Candidate Starts for Rope_18:
(1, 12385), (Start: 2 @12442 has 10 MA's), (12, 12556), (15, 12571), (16, 12589), (20, 12652), (23, 12682), (27, 12703), (28, 12727),

Gene: Send513_18 Start: 12792, Stop: 13160, Start Num: 2
Candidate Starts for Send513_18:
(1, 12735), (Start: 2 @12792 has 10 MA's), (12, 12906), (15, 12921), (16, 12939), (20, 13002), (23, 13032), (27, 13053), (28, 13077),

Gene: SilentWarrior_19 Start: 10550, Stop: 10858, Start Num: 5
Candidate Starts for SilentWarrior_19:
(Start: 5 @10550 has 43 MA's), (11, 10601), (28, 10805),

Gene: Snakehole_21 Start: 10639, Stop: 10947, Start Num: 5
Candidate Starts for Snakehole_21:
(Start: 5 @10639 has 43 MA's), (11, 10690), (28, 10894),

Gene: Sparcetus_21 Start: 11248, Stop: 11565, Start Num: 5
Candidate Starts for Sparcetus_21:
(Start: 5 @11248 has 43 MA's), (10, 11284), (17, 11383), (18, 11407), (21, 11452), (22, 11461),

Gene: Tedro_20 Start: 10813, Stop: 11121, Start Num: 5
Candidate Starts for Tedro_20:
(Start: 5 @10813 has 43 MA's), (11, 10864), (28, 11068),

Gene: TinyMiny_21 Start: 11267, Stop: 11584, Start Num: 5
Candidate Starts for TinyMiny_21:
(Start: 5 @11267 has 43 MA's), (10, 11303), (17, 11402), (18, 11426), (21, 11471), (22, 11480),

Gene: Tongui_19 Start: 10686, Stop: 10994, Start Num: 5
Candidate Starts for Tongui_19:
(Start: 5 @10686 has 43 MA's), (11, 10737),

Gene: Weiss13_18 Start: 12482, Stop: 12850, Start Num: 2
Candidate Starts for Weiss13_18:
(1, 12425), (Start: 2 @12482 has 10 MA's), (12, 12596), (15, 12611), (16, 12629), (20, 12692), (23, 12722), (27, 12743), (28, 12767),

Gene: Wollypog_8 Start: 7934, Stop: 8242, Start Num: 5
Candidate Starts for Wollypog_8:

(Start: 5 @7934 has 43 MA's), (12, 8015), (25, 8156), (29, 8195), (31, 8228),

Gene: Xenia2_18 Start: 13026, Stop: 13337, Start Num: 6

Candidate Starts for Xenia2_18:

(Start: 6 @13026 has 2 MA's), (11, 13068), (12, 13101), (21, 13212), (24, 13236), (25, 13242), (32, 13326),

Gene: Yelo_18 Start: 12792, Stop: 13160, Start Num: 2

Candidate Starts for Yelo_18:

(1, 12735), (Start: 2 @12792 has 10 MA's), (12, 12906), (15, 12921), (16, 12939), (20, 13002), (23, 13032), (27, 13053), (28, 13077),

Gene: Zenon_19 Start: 12794, Stop: 13162, Start Num: 2

Candidate Starts for Zenon_19:

(1, 12737), (Start: 2 @12794 has 10 MA's), (12, 12908), (15, 12923), (16, 12941), (20, 13004), (23, 13034), (27, 13055), (28, 13079),