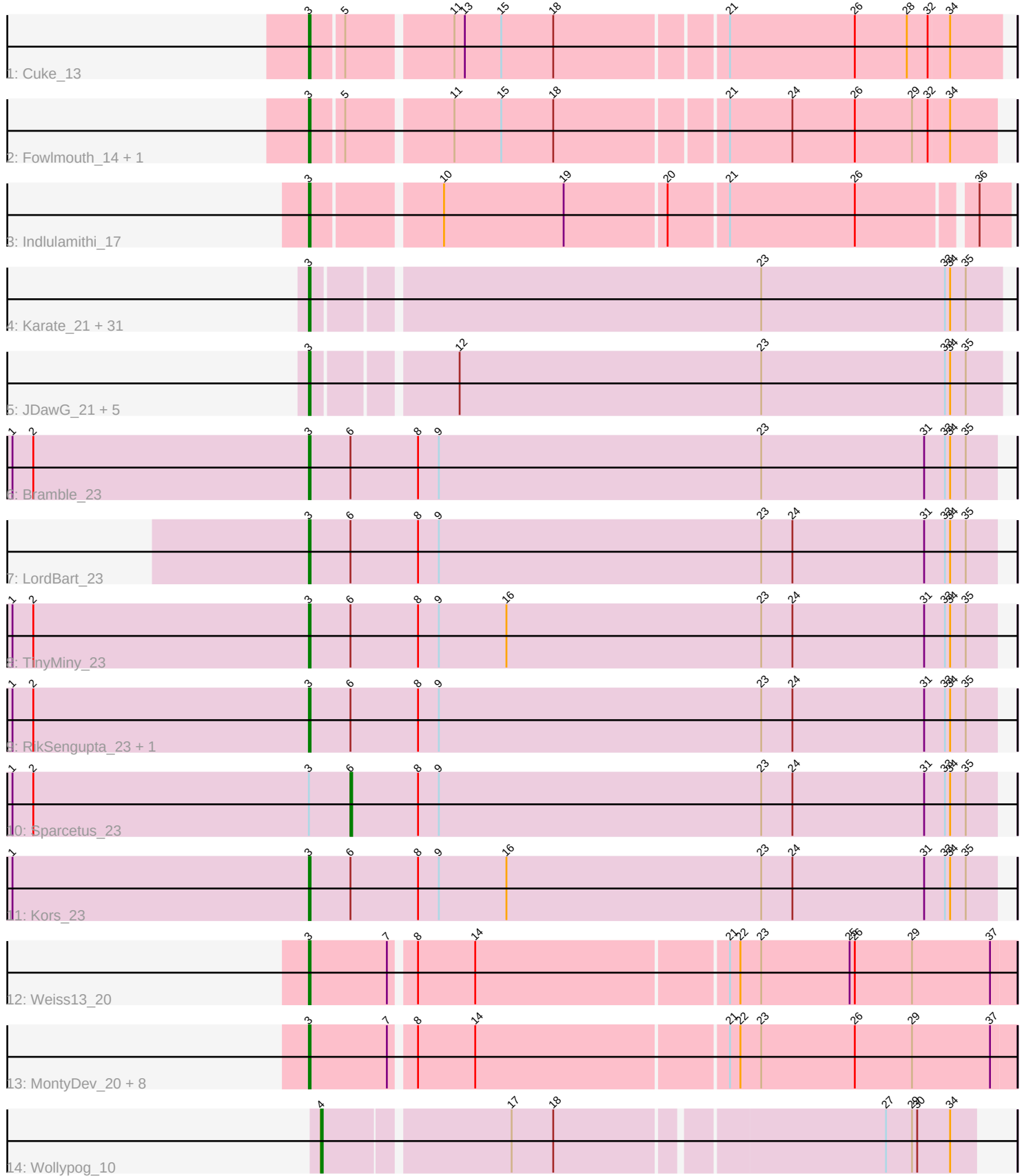


Pham 280466



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 280466 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280466 has 60 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Cuke_13
- Track 2 : Fowlmouth_14, MrMiyagi_14
- Track 3 : Indlulamithi_17
- Track 4 : Karate_21, DannyDe_21, Krampus_22, Anakin_22, OhDear_22, SilentWarrior_21, Aesir_21, Hiddenleaf_21, Potty_22, FountainFog_21, Rachella_22, Gilda_22, Dauntless_21, Chivey_21, Poultress_21, Haunter_22, MortySmith_20, FreddieHg_21, Tedro_22, JingleBells_21, Neptune_22, PhunaPhoke_22, Cybele_22, Kate_22, Artiphact_22, AnnaSerena_22, OverHedge_22, CoolCookie_22, Erudite_21, Snakehole_23, Pharpay_22, NarutoRun_22
- Track 5 : JDawG_21, Tongui_21, Crestdrop_21, Rie18_22, Hager_23, Annapurna_21
- Track 6 : Bramble_23
- Track 7 : LordBart_23
- Track 8 : TinyMiny_23
- Track 9 : RikSengupta_23, Ajin_23
- Track 10 : Sparcetus_23
- Track 11 : Kors_23
- Track 12 : Weiss13_20
- Track 13 : MontyDev_20, Candle_20, Nilo_21, Zenon_21, Riparian_20, Send513_20, Papyrus_20, Rope_20, Yelo_20
- Track 14 : Wollypog_10

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

The start number called the most often in the published annotations is 3, it was called in 53 of the 55 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir_21, Ajin_23, Anakin_22, AnnaSerena_22, Annapurna_21, Artiphact_22, Bramble_23, Candle_20, Chivey_21, CoolCookie_22, Crestdrop_21, Cuke_13, Cybele_22, DannyDe_21, Dauntless_21, Erudite_21, FountainFog_21, Fowlmouth_14, FreddieHg_21, Gilda_22, Hager_23, Haunter_22, Hiddenleaf_21, Indlulamithi_17, JDawG_21, JingleBells_21, Karate_21, Kate_22, Kors_23, Krampus_22, LordBart_23, MontyDev_20, MortySmith_20, MrMiyagi_14,

NarutoRun_22, Neptune_22, Nilo_21, OhDear_22, OverHedge_22, Papyrus_20, Pharpay_22, PhunaPhoke_22, Potty_22, Poultriss_21, Rachella_22, Rie18_22, RikSengupta_23, Riparian_20, Rope_20, Send513_20, SilentWarrior_21, Snakehole_23, Tedro_22, TinyMiny_23, Tongui_21, Weiss13_20, Yelo_20, Zenon_21,

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

- Sparcetus_23,

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

- Wollypog_10,

Summary by start number:

Start 3:

- Found in 59 of 60 (98.3%) of genes in pham
- Manual Annotations of this start: 53 of 55
- Called 98.3% of time when present
- Phage (with cluster) where this start called: Aesir_21 (EF), Ajin_23 (EF), Anakin_22 (EF), AnnaSerena_22 (EF), Annapurna_21 (EF), Artiphact_22 (EF), Bramble_23 (EF), Candle_20 (R), Chivey_21 (EF), CoolCookie_22 (EF), Crestdrop_21 (EF), Cuke_13 (AC), Cybele_22 (EF), DannyDe_21 (EF), Dauntless_21 (EF), Erudite_21 (EF), FountainFog_21 (EF), Fowlmouth_14 (AC), FreddieHg_21 (EF), Gilda_22 (EF), Hager_23 (EF), Haunter_22 (EF), Hiddenleaf_21 (EF), Indulamithi_17 (AC), JDawG_21 (EF), JingleBells_21 (EF), Karate_21 (EF), Kate_22 (EF), Kors_23 (EF), Krampus_22 (EF), LordBart_23 (EF), MontyDev_20 (R), MortySmith_20 (EF), MrMiyagi_14 (AC), NarutoRun_22 (EF), Neptune_22 (EF), Nilo_21 (R), OhDear_22 (EF), OverHedge_22 (EF), Papyrus_20 (R), Pharpay_22 (EF), PhunaPhoke_22 (EF), Potty_22 (EF), Poultriss_21 (EF), Rachella_22 (EF), Rie18_22 (EF), RikSengupta_23 (EF), Riparian_20 (R), Rope_20 (R), Send513_20 (R), SilentWarrior_21 (EF), Snakehole_23 (EF), Tedro_22 (EF), TinyMiny_23 (EF), Tongui_21 (EF), Weiss13_20 (R), Yelo_20 (R), Zenon_21 (R),

Start 4:

- Found in 1 of 60 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wollypog_10 (singleton),

Start 6:

- Found in 7 of 60 (11.7%) of genes in pham
- Manual Annotations of this start: 1 of 55
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Sparcetus_23 (EF),

Summary by clusters:

There are 4 clusters represented in this pham: AC, R, singleton, EF,

Info for manual annotations of cluster AC:

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

Info for manual annotations of cluster EF:

- Start number 3 was manually annotated 40 times for cluster EF.
- Start number 6 was manually annotated 1 time for cluster EF.

Info for manual annotations of cluster R:

- Start number 3 was manually annotated 9 times for cluster R.

Gene Information:

Gene: Aesir_21 Start: 11798, Stop: 12184, Start Num: 3

Candidate Starts for Aesir_21:

(Start: 3 @11798 has 53 MA's), (23, 12047), (33, 12152), (34, 12155), (35, 12164),

Gene: Ajin_23 Start: 11984, Stop: 12379, Start Num: 3

Candidate Starts for Ajin_23:

(1, 11813), (2, 11825), (Start: 3 @11984 has 53 MA's), (Start: 6 @12008 has 1 MA's), (8, 12047), (9, 12059), (23, 12245), (24, 12263), (31, 12338), (33, 12350), (34, 12353), (35, 12362),

Gene: Anakin_22 Start: 12008, Stop: 12394, Start Num: 3

Candidate Starts for Anakin_22:

(Start: 3 @12008 has 53 MA's), (23, 12257), (33, 12362), (34, 12365), (35, 12374),

Gene: AnnaSerena_22 Start: 12017, Stop: 12403, Start Num: 3

Candidate Starts for AnnaSerena_22:

(Start: 3 @12017 has 53 MA's), (23, 12266), (33, 12371), (34, 12374), (35, 12383),

Gene: Annapurna_21 Start: 11217, Stop: 11603, Start Num: 3

Candidate Starts for Annapurna_21:

(Start: 3 @11217 has 53 MA's), (12, 11292), (23, 11466), (33, 11571), (34, 11574), (35, 11583),

Gene: Artiphact_22 Start: 12009, Stop: 12395, Start Num: 3

Candidate Starts for Artiphact_22:

(Start: 3 @12009 has 53 MA's), (23, 12258), (33, 12363), (34, 12366), (35, 12375),

Gene: Bramble_23 Start: 11949, Stop: 12344, Start Num: 3

Candidate Starts for Bramble_23:

(1, 11778), (2, 11790), (Start: 3 @11949 has 53 MA's), (Start: 6 @11973 has 1 MA's), (8, 12012), (9, 12024), (23, 12210), (31, 12303), (33, 12315), (34, 12318), (35, 12327),

Gene: Candle_20 Start: 13524, Stop: 13919, Start Num: 3

Candidate Starts for Candle_20:

(Start: 3 @13524 has 53 MA's), (7, 13569), (8, 13581), (14, 13614), (21, 13755), (22, 13761), (23, 13773), (26, 13827), (29, 13860), (37, 13905),

Gene: Chivey_21 Start: 11210, Stop: 11596, Start Num: 3

Candidate Starts for Chivey_21:

(Start: 3 @11210 has 53 MA's), (23, 11459), (33, 11564), (34, 11567), (35, 11576),

Gene: CoolCookie_22 Start: 12015, Stop: 12401, Start Num: 3

Candidate Starts for CoolCookie_22:

(Start: 3 @12015 has 53 MA's), (23, 12264), (33, 12369), (34, 12372), (35, 12381),

Gene: Crestdrop_21 Start: 11084, Stop: 11470, Start Num: 3

Candidate Starts for Crestdrop_21:

(Start: 3 @11084 has 53 MA's), (12, 11159), (23, 11333), (33, 11438), (34, 11441), (35, 11450),

Gene: Cuke_13 Start: 8734, Stop: 9114, Start Num: 3

Candidate Starts for Cuke_13:

(Start: 3 @8734 has 53 MA's), (5, 8752), (11, 8809), (13, 8815), (15, 8836), (18, 8866), (21, 8959), (26, 9031), (28, 9061), (32, 9073), (34, 9085),

Gene: Cybele_22 Start: 11985, Stop: 12371, Start Num: 3

Candidate Starts for Cybele_22:

(Start: 3 @11985 has 53 MA's), (23, 12234), (33, 12339), (34, 12342), (35, 12351),

Gene: DannyDe_21 Start: 11202, Stop: 11588, Start Num: 3

Candidate Starts for DannyDe_21:

(Start: 3 @11202 has 53 MA's), (23, 11451), (33, 11556), (34, 11559), (35, 11568),

Gene: Dauntless_21 Start: 11727, Stop: 12113, Start Num: 3

Candidate Starts for Dauntless_21:

(Start: 3 @11727 has 53 MA's), (23, 11976), (33, 12081), (34, 12084), (35, 12093),

Gene: Erudite_21 Start: 11727, Stop: 12113, Start Num: 3

Candidate Starts for Erudite_21:

(Start: 3 @11727 has 53 MA's), (23, 11976), (33, 12081), (34, 12084), (35, 12093),

Gene: FountainFog_21 Start: 11336, Stop: 11722, Start Num: 3

Candidate Starts for FountainFog_21:

(Start: 3 @11336 has 53 MA's), (23, 11585), (33, 11690), (34, 11693), (35, 11702),

Gene: Fowlmouth_14 Start: 8905, Stop: 9282, Start Num: 3

Candidate Starts for Fowlmouth_14:

(Start: 3 @8905 has 53 MA's), (5, 8923), (11, 8980), (15, 9007), (18, 9037), (21, 9130), (24, 9166), (26, 9202), (29, 9235), (32, 9244), (34, 9256),

Gene: FreddieHg_21 Start: 11226, Stop: 11612, Start Num: 3

Candidate Starts for FreddieHg_21:

(Start: 3 @11226 has 53 MA's), (23, 11475), (33, 11580), (34, 11583), (35, 11592),

Gene: Gilda_22 Start: 12009, Stop: 12395, Start Num: 3

Candidate Starts for Gilda_22:

(Start: 3 @12009 has 53 MA's), (23, 12258), (33, 12363), (34, 12366), (35, 12375),

Gene: Hager_23 Start: 11580, Stop: 11966, Start Num: 3

Candidate Starts for Hager_23:

(Start: 3 @11580 has 53 MA's), (12, 11655), (23, 11829), (33, 11934), (34, 11937), (35, 11946),

Gene: Haunter_22 Start: 11422, Stop: 11808, Start Num: 3

Candidate Starts for Haunter_22:

(Start: 3 @11422 has 53 MA's), (23, 11671), (33, 11776), (34, 11779), (35, 11788),

Gene: Hiddenleaf_21 Start: 11210, Stop: 11596, Start Num: 3

Candidate Starts for Hiddenleaf_21:

(Start: 3 @11210 has 53 MA's), (23, 11459), (33, 11564), (34, 11567), (35, 11576),

Gene: Indlulamithi_17 Start: 10995, Stop: 11375, Start Num: 3

Candidate Starts for Indlulamithi_17:

(Start: 3 @10995 has 53 MA's), (10, 11064), (19, 11133), (20, 11190), (21, 11223), (26, 11295), (36, 11358),

Gene: JDawG_21 Start: 11792, Stop: 12178, Start Num: 3

Candidate Starts for JDawG_21:

(Start: 3 @11792 has 53 MA's), (12, 11867), (23, 12041), (33, 12146), (34, 12149), (35, 12158),

Gene: JingleBells_21 Start: 11291, Stop: 11677, Start Num: 3

Candidate Starts for JingleBells_21:

(Start: 3 @11291 has 53 MA's), (23, 11540), (33, 11645), (34, 11648), (35, 11657),

Gene: Karate_21 Start: 11430, Stop: 11816, Start Num: 3

Candidate Starts for Karate_21:

(Start: 3 @11430 has 53 MA's), (23, 11679), (33, 11784), (34, 11787), (35, 11796),

Gene: Kate_22 Start: 12017, Stop: 12403, Start Num: 3

Candidate Starts for Kate_22:

(Start: 3 @12017 has 53 MA's), (23, 12266), (33, 12371), (34, 12374), (35, 12383),

Gene: Kors_23 Start: 12030, Stop: 12425, Start Num: 3

Candidate Starts for Kors_23:

(1, 11859), (Start: 3 @12030 has 53 MA's), (Start: 6 @12054 has 1 MA's), (8, 12093), (9, 12105), (16, 12144), (23, 12291), (24, 12309), (31, 12384), (33, 12396), (34, 12399), (35, 12408),

Gene: Krampus_22 Start: 12015, Stop: 12401, Start Num: 3

Candidate Starts for Krampus_22:

(Start: 3 @12015 has 53 MA's), (23, 12264), (33, 12369), (34, 12372), (35, 12381),

Gene: LordBart_23 Start: 11946, Stop: 12341, Start Num: 3

Candidate Starts for LordBart_23:

(Start: 3 @11946 has 53 MA's), (Start: 6 @11970 has 1 MA's), (8, 12009), (9, 12021), (23, 12207), (24, 12225), (31, 12300), (33, 12312), (34, 12315), (35, 12324),

Gene: MontyDev_20 Start: 13182, Stop: 13577, Start Num: 3

Candidate Starts for MontyDev_20:

(Start: 3 @13182 has 53 MA's), (7, 13227), (8, 13239), (14, 13272), (21, 13413), (22, 13419), (23, 13431), (26, 13485), (29, 13518), (37, 13563),

Gene: MortySmith_20 Start: 11189, Stop: 11575, Start Num: 3

Candidate Starts for MortySmith_20:

(Start: 3 @11189 has 53 MA's), (23, 11438), (33, 11543), (34, 11546), (35, 11555),

Gene: MrMiyagi_14 Start: 8905, Stop: 9282, Start Num: 3

Candidate Starts for MrMiyagi_14:

(Start: 3 @8905 has 53 MA's), (5, 8923), (11, 8980), (15, 9007), (18, 9037), (21, 9130), (24, 9166), (26, 9202), (29, 9235), (32, 9244), (34, 9256),

Gene: NarutoRun_22 Start: 12008, Stop: 12394, Start Num: 3

Candidate Starts for NarutoRun_22:

(Start: 3 @12008 has 53 MA's), (23, 12257), (33, 12362), (34, 12365), (35, 12374),

Gene: Neptune_22 Start: 11985, Stop: 12371, Start Num: 3

Candidate Starts for Neptune_22:

(Start: 3 @11985 has 53 MA's), (23, 12234), (33, 12339), (34, 12342), (35, 12351),

Gene: Nilo_21 Start: 13521, Stop: 13916, Start Num: 3

Candidate Starts for Nilo_21:

(Start: 3 @13521 has 53 MA's), (7, 13566), (8, 13578), (14, 13611), (21, 13752), (22, 13758), (23, 13770), (26, 13824), (29, 13857), (37, 13902),

Gene: OhDear_22 Start: 12014, Stop: 12400, Start Num: 3

Candidate Starts for OhDear_22:

(Start: 3 @12014 has 53 MA's), (23, 12263), (33, 12368), (34, 12371), (35, 12380),

Gene: OverHedge_22 Start: 11982, Stop: 12368, Start Num: 3

Candidate Starts for OverHedge_22:

(Start: 3 @11982 has 53 MA's), (23, 12231), (33, 12336), (34, 12339), (35, 12348),

Gene: Papyrus_20 Start: 13183, Stop: 13578, Start Num: 3

Candidate Starts for Papyrus_20:

(Start: 3 @13183 has 53 MA's), (7, 13228), (8, 13240), (14, 13273), (21, 13414), (22, 13420), (23, 13432), (26, 13486), (29, 13519), (37, 13564),

Gene: Pharpay_22 Start: 12030, Stop: 12416, Start Num: 3

Candidate Starts for Pharpay_22:

(Start: 3 @12030 has 53 MA's), (23, 12279), (33, 12384), (34, 12387), (35, 12396),

Gene: PhunaPhoke_22 Start: 12003, Stop: 12389, Start Num: 3

Candidate Starts for PhunaPhoke_22:

(Start: 3 @12003 has 53 MA's), (23, 12252), (33, 12357), (34, 12360), (35, 12369),

Gene: Potty_22 Start: 12008, Stop: 12394, Start Num: 3

Candidate Starts for Potty_22:

(Start: 3 @12008 has 53 MA's), (23, 12257), (33, 12362), (34, 12365), (35, 12374),

Gene: Poultress_21 Start: 11781, Stop: 12167, Start Num: 3

Candidate Starts for Poultress_21:

(Start: 3 @11781 has 53 MA's), (23, 12030), (33, 12135), (34, 12138), (35, 12147),

Gene: Rachella_22 Start: 12011, Stop: 12397, Start Num: 3

Candidate Starts for Rachella_22:

(Start: 3 @12011 has 53 MA's), (23, 12260), (33, 12365), (34, 12368), (35, 12377),

Gene: Rie18_22 Start: 11362, Stop: 11748, Start Num: 3

Candidate Starts for Rie18_22:

(Start: 3 @11362 has 53 MA's), (12, 11437), (23, 11611), (33, 11716), (34, 11719), (35, 11728),

Gene: RikSengupta_23 Start: 12067, Stop: 12462, Start Num: 3

Candidate Starts for RikSengupta_23:

(1, 11896), (2, 11908), (Start: 3 @12067 has 53 MA's), (Start: 6 @12091 has 1 MA's), (8, 12130), (9, 12142), (23, 12328), (24, 12346), (31, 12421), (33, 12433), (34, 12436), (35, 12445),

Gene: Riparian_20 Start: 12982, Stop: 13377, Start Num: 3

Candidate Starts for Riparian_20:

(Start: 3 @12982 has 53 MA's), (7, 13027), (8, 13039), (14, 13072), (21, 13213), (22, 13219), (23, 13231), (26, 13285), (29, 13318), (37, 13363),

Gene: Rope_20 Start: 13174, Stop: 13569, Start Num: 3

Candidate Starts for Rope_20:

(Start: 3 @13174 has 53 MA's), (7, 13219), (8, 13231), (14, 13264), (21, 13405), (22, 13411), (23, 13423), (26, 13477), (29, 13510), (37, 13555),

Gene: Send513_20 Start: 13524, Stop: 13919, Start Num: 3

Candidate Starts for Send513_20:

(Start: 3 @13524 has 53 MA's), (7, 13569), (8, 13581), (14, 13614), (21, 13755), (22, 13761), (23, 13773), (26, 13827), (29, 13860), (37, 13905),

Gene: SilentWarrior_21 Start: 11218, Stop: 11604, Start Num: 3

Candidate Starts for SilentWarrior_21:

(Start: 3 @11218 has 53 MA's), (23, 11467), (33, 11572), (34, 11575), (35, 11584),

Gene: Snakehole_23 Start: 11307, Stop: 11693, Start Num: 3

Candidate Starts for Snakehole_23:

(Start: 3 @11307 has 53 MA's), (23, 11556), (33, 11661), (34, 11664), (35, 11673),

Gene: Sparcetus_23 Start: 11970, Stop: 12341, Start Num: 6

Candidate Starts for Sparcetus_23:

(1, 11775), (2, 11787), (Start: 3 @11946 has 53 MA's), (Start: 6 @11970 has 1 MA's), (8, 12009), (9, 12021), (23, 12207), (24, 12225), (31, 12300), (33, 12312), (34, 12315), (35, 12324),

Gene: Tedro_22 Start: 11481, Stop: 11867, Start Num: 3

Candidate Starts for Tedro_22:

(Start: 3 @11481 has 53 MA's), (23, 11730), (33, 11835), (34, 11838), (35, 11847),

Gene: TinyMiny_23 Start: 11965, Stop: 12360, Start Num: 3

Candidate Starts for TinyMiny_23:

(1, 11794), (2, 11806), (Start: 3 @11965 has 53 MA's), (Start: 6 @11989 has 1 MA's), (8, 12028), (9, 12040), (16, 12079), (23, 12226), (24, 12244), (31, 12319), (33, 12331), (34, 12334), (35, 12343),

Gene: Tongui_21 Start: 11354, Stop: 11740, Start Num: 3

Candidate Starts for Tongui_21:

(Start: 3 @11354 has 53 MA's), (12, 11429), (23, 11603), (33, 11708), (34, 11711), (35, 11720),

Gene: Weiss13_20 Start: 13214, Stop: 13609, Start Num: 3

Candidate Starts for Weiss13_20:

(Start: 3 @13214 has 53 MA's), (7, 13259), (8, 13271), (14, 13304), (21, 13445), (22, 13451), (23, 13463), (25, 13514), (26, 13517), (29, 13550), (37, 13595),

Gene: Wollypog_10 Start: 8603, Stop: 8959, Start Num: 4

Candidate Starts for Wollypog_10:

(Start: 4 @8603 has 1 MA's), (17, 8705), (18, 8729), (27, 8909), (29, 8924), (30, 8927), (34, 8945),

Gene: Yelo_20 Start: 13524, Stop: 13919, Start Num: 3

Candidate Starts for Yelo_20:

(Start: 3 @13524 has 53 MA's), (7, 13569), (8, 13581), (14, 13614), (21, 13755), (22, 13761), (23, 13773), (26, 13827), (29, 13860), (37, 13905),

Gene: Zenon_21 Start: 13526, Stop: 13921, Start Num: 3

Candidate Starts for Zenon_21:

(Start: 3 @13526 has 53 MA's), (7, 13571), (8, 13583), (14, 13616), (21, 13757), (22, 13763), (23, 13775), (26, 13829), (29, 13862), (37, 13907),