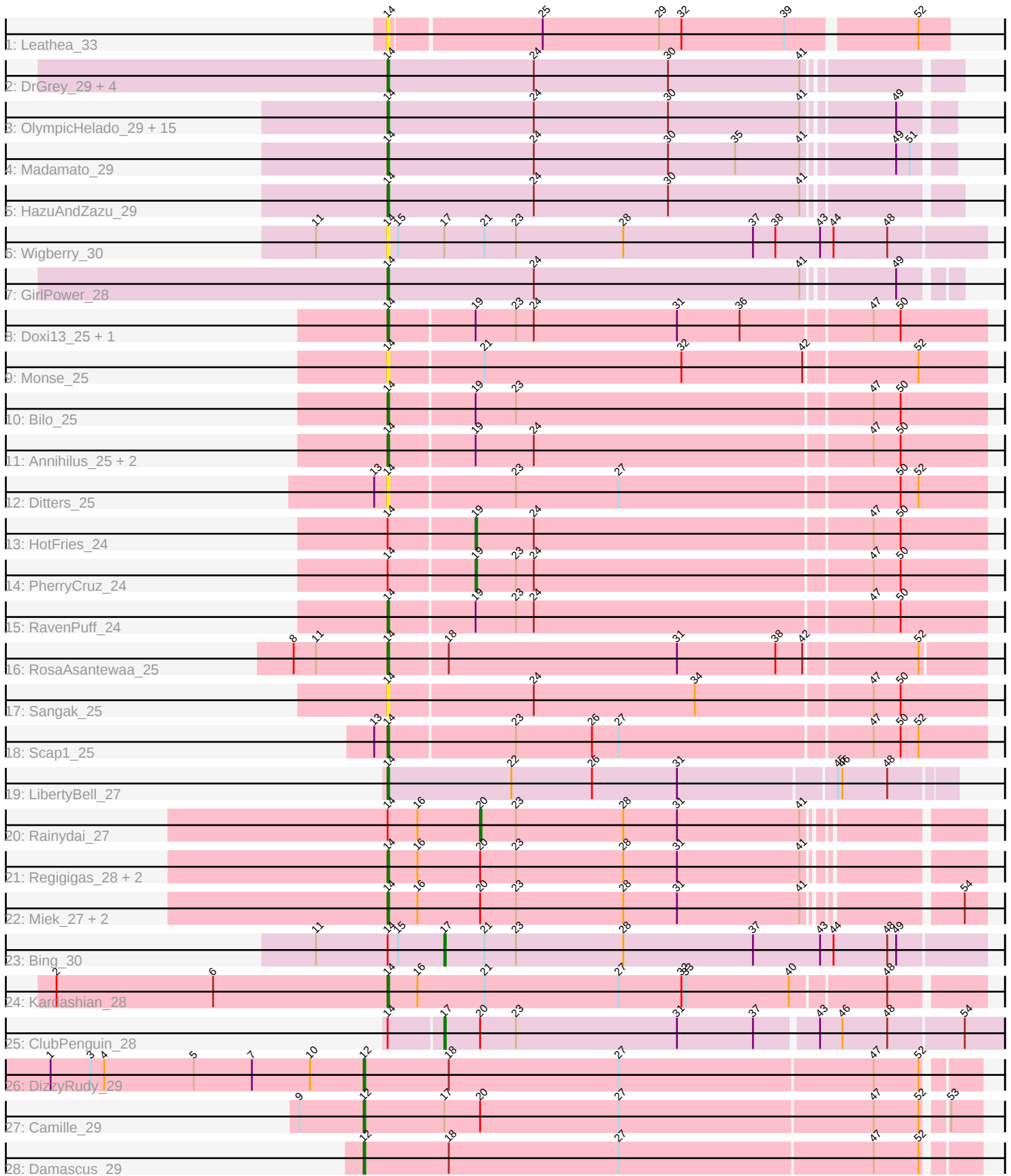


Pham 280515



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 280515 Report

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

Pham number 280515 has 54 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Leatheia_33
- Track 2 : DrGrey_29, FrodoSwaggins_29, Popy_29, Espio_30, Soshi_29
- Track 3 : OlympicHelado_29, Hoshi_29, IceWarrior_29, Indigenous_29, FidgetOrca_29, CherryBlossom_29, TaidaOne_29, Rima_29, Esketit_29, Namo_29, TonyStarch_29, Spectropatronm_29, Maya_29, Meibysrarus_29, TieDye_28, Jaylociraptor_29
- Track 4 : Madamoto_29
- Track 5 : HazuAndZazu_29
- Track 6 : Wigberry_30
- Track 7 : GirlPower_28
- Track 8 : Doxi13_25, GoblinVoyage_25
- Track 9 : Monse_25
- Track 10 : Bilo_25
- Track 11 : Annihilus_25, Moozy_25, SheRa_25
- Track 12 : Ditters_25
- Track 13 : HotFries_24
- Track 14 : PherryCruz_24
- Track 15 : RavenPuff_24
- Track 16 : RosaAsantewaa_25
- Track 17 : Sangak_25
- Track 18 : Scap1_25
- Track 19 : LibertyBell_27
- Track 20 : Rainydai_27
- Track 21 : Regigigas_28, CricKo_27, Thiqqums_27
- Track 22 : Miek_27, FromIndy_28, SendItCS_26
- Track 23 : Bing_30
- Track 24 : Kardashian_28
- Track 25 : ClubPenguin_28
- Track 26 : DizzyRudy_29
- Track 27 : Camille_29
- Track 28 : Damascus_29

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

The start number called the most often in the published annotations is 14, it was called in 38 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annihilus_25, Bilo_25, CherryBlossom_29, CricKo_27, Ditters_25, Doxi13_25, DrGrey_29, Esketit_29, Espio_30, FidgetOrca_29, FrodoSwaggins_29, FromIndy_28, GirlPower_28, GoblinVoyage_25, HazuAndZazu_29, Hoshi_29, IceWarrior_29, Indigenous_29, Jaylociraptor_29, Kardashian_28, Leathea_33, LibertyBell_27, Madamato_29, Maya_29, Meibysrarus_29, Miek_27, Monse_25, Moozy_25, Namo_29, OlympicHelado_29, Popy_29, RavenPuff_24, Regigigas_28, Rima_29, RosaAsantewaa_25, Sangak_25, Scap1_25, SendItCS_26, SheRa_25, Soshi_29, Spectropatronm_29, TaidaOne_29, Thiqqums_27, TieDye_28, TonyStarch_29, Wigberry_30,

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

- Bing_30, ClubPenguin_28, HotFries_24, PherryCruz_24, Rainydai_27,

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

- Camille_29, Damascus_29, DizzyRudy_29,

Summary by start number:

Start 12:

- Found in 3 of 54 (5.6%) of genes in pham
- Manual Annotations of this start: 3 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Camille_29 (EL), Damascus_29 (EL), DizzyRudy_29 (EL),

Start 14:

- Found in 51 of 54 (94.4%) of genes in pham
- Manual Annotations of this start: 38 of 46
- Called 90.2% of time when present
- Phage (with cluster) where this start called: Annihilus_25 (BI2), Bilo_25 (BI2), CherryBlossom_29 (BI1), CricKo_27 (BI4), Ditters_25 (BI2), Doxi13_25 (BI2), DrGrey_29 (BI1), Esketit_29 (BI1), Espio_30 (BI1), FidgetOrca_29 (BI1), FrodoSwaggins_29 (BI1), FromIndy_28 (BI4), GirlPower_28 (BI1), GoblinVoyage_25 (BI2), HazuAndZazu_29 (BI1), Hoshi_29 (BI1), IceWarrior_29 (BI1), Indigenous_29 (BI1), Jaylociraptor_29 (BI1), Kardashian_28 (BI6), Leathea_33 (AU6), LibertyBell_27 (BI3), Madamato_29 (BI1), Maya_29 (BI1), Meibysrarus_29 (BI1), Miek_27 (BI4), Monse_25 (BI2), Moozy_25 (BI2), Namo_29 (BI1), OlympicHelado_29 (BI1), Popy_29 (BI1), RavenPuff_24 (BI2), Regigigas_28 (BI4), Rima_29 (BI1), RosaAsantewaa_25 (BI2), Sangak_25 (BI2), Scap1_25 (BI2), SendItCS_26 (BI4), SheRa_25 (BI2), Soshi_29 (BI1), Spectropatronm_29 (BI1), TaidaOne_29 (BI1), Thiqqums_27 (BI4), TieDye_28 (BI1), TonyStarch_29 (BI1), Wigberry_30 (BI1),

Start 17:

- Found in 4 of 54 (7.4%) of genes in pham
- Manual Annotations of this start: 2 of 46
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Bing_30 (BI5), ClubPenguin_28 (BI7),

Start 19:

- Found in 9 of 54 (16.7%) of genes in pham
- Manual Annotations of this start: 2 of 46
- Called 22.2% of time when present
- Phage (with cluster) where this start called: HotFries_24 (BI2), PherryCruz_24 (BI2),

Start 20:

- Found in 9 of 54 (16.7%) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Rainydai_27 (BI4),

Summary by clusters:

There are 9 clusters represented in this pham: EL, AU6, BI6, BI7, BI4, BI5, BI2, BI3, BI1,

Info for manual annotations of cluster BI1:

- Start number 14 was manually annotated 23 times for cluster BI1.

Info for manual annotations of cluster BI2:

- Start number 14 was manually annotated 9 times for cluster BI2.
- Start number 19 was manually annotated 2 times for cluster BI2.

Info for manual annotations of cluster BI3:

- Start number 14 was manually annotated 1 time for cluster BI3.

Info for manual annotations of cluster BI4:

- Start number 14 was manually annotated 4 times for cluster BI4.
- Start number 20 was manually annotated 1 time for cluster BI4.

Info for manual annotations of cluster BI5:

- Start number 17 was manually annotated 1 time for cluster BI5.

Info for manual annotations of cluster BI6:

- Start number 14 was manually annotated 1 time for cluster BI6.

Info for manual annotations of cluster BI7:

- Start number 17 was manually annotated 1 time for cluster BI7.

Info for manual annotations of cluster EL:

- Start number 12 was manually annotated 3 times for cluster EL.

Gene Information:

Gene: Annihilus_25 Start: 22331, Stop: 22720, Start Num: 14

Candidate Starts for Annihilus_25:

(Start: 14 @22331 has 38 MA's), (Start: 19 @22385 has 2 MA's), (24, 22424), (47, 22646), (50, 22664),

Gene: Bilo_25 Start: 22822, Stop: 23211, Start Num: 14

Candidate Starts for Bilo_25:

(Start: 14 @22822 has 38 MA's), (Start: 19 @22876 has 2 MA's), (23, 22903), (47, 23137), (50, 23155),

Gene: Bing_30 Start: 25162, Stop: 25521, Start Num: 17

Candidate Starts for Bing_30:

(11, 25078), (Start: 14 @25126 has 38 MA's), (15, 25132), (Start: 17 @25162 has 2 MA's), (21, 25189), (23, 25210), (28, 25282), (37, 25369), (43, 25414), (44, 25423), (48, 25459), (49, 25465),

Gene: Camille_29 Start: 23493, Stop: 23894, Start Num: 12

Candidate Starts for Camille_29:

(9, 23451), (Start: 12 @23493 has 3 MA's), (Start: 17 @23547 has 2 MA's), (Start: 20 @23571 has 1 MA's), (27, 23664), (47, 23832), (52, 23862), (53, 23874),

Gene: CherryBlossom_29 Start: 25276, Stop: 25635, Start Num: 14

Candidate Starts for CherryBlossom_29:

(Start: 14 @25276 has 38 MA's), (24, 25372), (30, 25462), (41, 25549), (49, 25603),

Gene: ClubPenguin_28 Start: 24936, Stop: 25301, Start Num: 17

Candidate Starts for ClubPenguin_28:

(Start: 14 @24903 has 38 MA's), (Start: 17 @24936 has 2 MA's), (Start: 20 @24960 has 1 MA's), (23, 24984), (31, 25092), (37, 25143), (43, 25182), (46, 25197), (48, 25227), (54, 25275),

Gene: CricKo_27 Start: 24163, Stop: 24540, Start Num: 14

Candidate Starts for CricKo_27:

(Start: 14 @24163 has 38 MA's), (16, 24181), (Start: 20 @24223 has 1 MA's), (23, 24247), (28, 24319), (31, 24355), (41, 24436),

Gene: Damascus_29 Start: 24399, Stop: 24800, Start Num: 12

Candidate Starts for Damascus_29:

(Start: 12 @24399 has 3 MA's), (18, 24456), (27, 24570), (47, 24738), (52, 24768),

Gene: Ditters_25 Start: 22781, Stop: 23170, Start Num: 14

Candidate Starts for Ditters_25:

(13, 22772), (Start: 14 @22781 has 38 MA's), (23, 22862), (27, 22931), (50, 23114), (52, 23126),

Gene: DizzyRudy_29 Start: 24315, Stop: 24716, Start Num: 12

Candidate Starts for DizzyRudy_29:

(1, 24105), (3, 24132), (4, 24141), (5, 24201), (7, 24240), (10, 24279), (Start: 12 @24315 has 3 MA's), (18, 24372), (27, 24486), (47, 24654), (52, 24684),

Gene: Doxi13_25 Start: 22302, Stop: 22691, Start Num: 14

Candidate Starts for Doxi13_25:

(Start: 14 @22302 has 38 MA's), (Start: 19 @22356 has 2 MA's), (23, 22383), (24, 22395), (31, 22491), (36, 22533), (47, 22617), (50, 22635),

Gene: DrGrey_29 Start: 25776, Stop: 26141, Start Num: 14

Candidate Starts for DrGrey_29:

(Start: 14 @25776 has 38 MA's), (24, 25872), (30, 25962), (41, 26049),

Gene: Esketit_29 Start: 25259, Stop: 25618, Start Num: 14

Candidate Starts for Esketit_29:

(Start: 14 @25259 has 38 MA's), (24, 25355), (30, 25445), (41, 25532), (49, 25586),

Gene: Espio_30 Start: 25777, Stop: 26142, Start Num: 14

Candidate Starts for Espio_30:

(Start: 14 @25777 has 38 MA's), (24, 25873), (30, 25963), (41, 26050),

Gene: FidgetOrca_29 Start: 25265, Stop: 25624, Start Num: 14

Candidate Starts for FidgetOrca_29:

(Start: 14 @25265 has 38 MA's), (24, 25361), (30, 25451), (41, 25538), (49, 25592),

Gene: FrodoSwaggins_29 Start: 25776, Stop: 26141, Start Num: 14

Candidate Starts for FrodoSwaggins_29:

(Start: 14 @25776 has 38 MA's), (24, 25872), (30, 25962), (41, 26049),

Gene: FromIndy_28 Start: 24151, Stop: 24528, Start Num: 14

Candidate Starts for FromIndy_28:

(Start: 14 @24151 has 38 MA's), (16, 24169), (Start: 20 @24211 has 1 MA's), (23, 24235), (28, 24307), (31, 24343), (41, 24424), (54, 24514),

Gene: GirlPower_28 Start: 26747, Stop: 27109, Start Num: 14

Candidate Starts for GirlPower_28:

(Start: 14 @26747 has 38 MA's), (24, 26843), (41, 27020), (49, 27074),

Gene: GoblinVoyage_25 Start: 22302, Stop: 22691, Start Num: 14

Candidate Starts for GoblinVoyage_25:

(Start: 14 @22302 has 38 MA's), (Start: 19 @22356 has 2 MA's), (23, 22383), (24, 22395), (31, 22491), (36, 22533), (47, 22617), (50, 22635),

Gene: HazuAndZazu_29 Start: 25777, Stop: 26142, Start Num: 14

Candidate Starts for HazuAndZazu_29:

(Start: 14 @25777 has 38 MA's), (24, 25873), (30, 25963), (41, 26050),

Gene: Hoshi_29 Start: 25259, Stop: 25618, Start Num: 14

Candidate Starts for Hoshi_29:

(Start: 14 @25259 has 38 MA's), (24, 25355), (30, 25445), (41, 25532), (49, 25586),

Gene: HotFries_24 Start: 22355, Stop: 22690, Start Num: 19

Candidate Starts for HotFries_24:

(Start: 14 @22301 has 38 MA's), (Start: 19 @22355 has 2 MA's), (24, 22394), (47, 22616), (50, 22634),

Gene: IceWarrior_29 Start: 25259, Stop: 25618, Start Num: 14

Candidate Starts for IceWarrior_29:

(Start: 14 @25259 has 38 MA's), (24, 25355), (30, 25445), (41, 25532), (49, 25586),

Gene: Indigenous_29 Start: 25259, Stop: 25618, Start Num: 14

Candidate Starts for Indigenous_29:

(Start: 14 @25259 has 38 MA's), (24, 25355), (30, 25445), (41, 25532), (49, 25586),

Gene: Jaylociraptor_29 Start: 25259, Stop: 25618, Start Num: 14

Candidate Starts for Jaylociraptor_29:

(Start: 14 @25259 has 38 MA's), (24, 25355), (30, 25445), (41, 25532), (49, 25586),

Gene: Kardashian_28 Start: 25209, Stop: 25595, Start Num: 14

Candidate Starts for Kardashian_28:

(2, 24987), (6, 25092), (Start: 14 @25209 has 38 MA's), (16, 25227), (21, 25272), (27, 25362), (32, 25404), (33, 25407), (40, 25476), (48, 25536),

Gene: Leathea_33 Start: 26912, Stop: 27271, Start Num: 14

Candidate Starts for Leathea_33:

(Start: 14 @26912 has 38 MA's), (25, 27008), (29, 27086), (32, 27101), (39, 27170), (52, 27251),

Gene: LibertyBell_27 Start: 24107, Stop: 24475, Start Num: 14

Candidate Starts for LibertyBell_27:

(Start: 14 @24107 has 38 MA's), (22, 24188), (26, 24242), (31, 24299), (45, 24401), (46, 24404), (48, 24434),

Gene: Madamoto_29 Start: 25237, Stop: 25596, Start Num: 14

Candidate Starts for Madamoto_29:

(Start: 14 @25237 has 38 MA's), (24, 25333), (30, 25423), (35, 25468), (41, 25510), (49, 25564), (51, 25573),

Gene: Maya_29 Start: 25273, Stop: 25632, Start Num: 14

Candidate Starts for Maya_29:

(Start: 14 @25273 has 38 MA's), (24, 25369), (30, 25459), (41, 25546), (49, 25600),

Gene: Meibysrarus_29 Start: 25259, Stop: 25618, Start Num: 14

Candidate Starts for Meibysrarus_29:

(Start: 14 @25259 has 38 MA's), (24, 25355), (30, 25445), (41, 25532), (49, 25586),

Gene: Miek_27 Start: 24163, Stop: 24540, Start Num: 14

Candidate Starts for Miek_27:

(Start: 14 @24163 has 38 MA's), (16, 24181), (Start: 20 @24223 has 1 MA's), (23, 24247), (28, 24319), (31, 24355), (41, 24436), (54, 24526),

Gene: Monse_25 Start: 22333, Stop: 22722, Start Num: 14

Candidate Starts for Monse_25:

(Start: 14 @22333 has 38 MA's), (21, 22393), (32, 22525), (42, 22606), (52, 22678),

Gene: Moozy_25 Start: 22318, Stop: 22707, Start Num: 14

Candidate Starts for Moozy_25:

(Start: 14 @22318 has 38 MA's), (Start: 19 @22372 has 2 MA's), (24, 22411), (47, 22633), (50, 22651),

Gene: Namo_29 Start: 25265, Stop: 25624, Start Num: 14

Candidate Starts for Namo_29:

(Start: 14 @25265 has 38 MA's), (24, 25361), (30, 25451), (41, 25538), (49, 25592),

Gene: OlympicHelado_29 Start: 25265, Stop: 25624, Start Num: 14

Candidate Starts for OlympicHelado_29:

(Start: 14 @25265 has 38 MA's), (24, 25361), (30, 25451), (41, 25538), (49, 25592),

Gene: PherryCruz_24 Start: 22357, Stop: 22692, Start Num: 19

Candidate Starts for PherryCruz_24:

(Start: 14 @22303 has 38 MA's), (Start: 19 @22357 has 2 MA's), (23, 22384), (24, 22396), (47, 22618), (50, 22636),

Gene: Popy_29 Start: 25776, Stop: 26141, Start Num: 14

Candidate Starts for Popy_29:

(Start: 14 @25776 has 38 MA's), (24, 25872), (30, 25962), (41, 26049),

Gene: Rainydai_27 Start: 24223, Stop: 24540, Start Num: 20

Candidate Starts for Rainydai_27:

(Start: 14 @24163 has 38 MA's), (16, 24181), (Start: 20 @24223 has 1 MA's), (23, 24247), (28, 24319), (31, 24355), (41, 24436),

Gene: RavenPuff_24 Start: 22303, Stop: 22692, Start Num: 14

Candidate Starts for RavenPuff_24:

(Start: 14 @22303 has 38 MA's), (Start: 19 @22357 has 2 MA's), (23, 22384), (24, 22396), (47, 22618), (50, 22636),

Gene: Regigigas_28 Start: 24163, Stop: 24540, Start Num: 14

Candidate Starts for Regigigas_28:

(Start: 14 @24163 has 38 MA's), (16, 24181), (Start: 20 @24223 has 1 MA's), (23, 24247), (28, 24319), (31, 24355), (41, 24436),

Gene: Rima_29 Start: 25265, Stop: 25624, Start Num: 14

Candidate Starts for Rima_29:

(Start: 14 @25265 has 38 MA's), (24, 25361), (30, 25451), (41, 25538), (49, 25592),

Gene: RosaAsantewaa_25 Start: 22174, Stop: 22560, Start Num: 14

Candidate Starts for RosaAsantewaa_25:

(8, 22111), (11, 22126), (Start: 14 @22174 has 38 MA's), (18, 22210), (31, 22363), (38, 22429), (42, 22447), (52, 22519),

Gene: Sangak_25 Start: 22303, Stop: 22692, Start Num: 14

Candidate Starts for Sangak_25:

(Start: 14 @22303 has 38 MA's), (24, 22396), (34, 22504), (47, 22618), (50, 22636),

Gene: Scap1_25 Start: 22251, Stop: 22640, Start Num: 14

Candidate Starts for Scap1_25:

(13, 22242), (Start: 14 @22251 has 38 MA's), (23, 22332), (26, 22383), (27, 22401), (47, 22566), (50, 22584), (52, 22596),

Gene: SendItCS_26 Start: 24163, Stop: 24540, Start Num: 14

Candidate Starts for SendItCS_26:

(Start: 14 @24163 has 38 MA's), (16, 24181), (Start: 20 @24223 has 1 MA's), (23, 24247), (28, 24319), (31, 24355), (41, 24436), (54, 24526),

Gene: SheRa_25 Start: 22302, Stop: 22691, Start Num: 14

Candidate Starts for SheRa_25:

(Start: 14 @22302 has 38 MA's), (Start: 19 @22356 has 2 MA's), (24, 22395), (47, 22617), (50, 22635),

Gene: Soshi_29 Start: 25782, Stop: 26147, Start Num: 14

Candidate Starts for Soshi_29:

(Start: 14 @25782 has 38 MA's), (24, 25878), (30, 25968), (41, 26055),

Gene: Spectropatronm_29 Start: 25259, Stop: 25618, Start Num: 14

Candidate Starts for Spectropatronm_29:

(Start: 14 @25259 has 38 MA's), (24, 25355), (30, 25445), (41, 25532), (49, 25586),

Gene: TaidaOne_29 Start: 25907, Stop: 26266, Start Num: 14

Candidate Starts for TaidaOne_29:

(Start: 14 @25907 has 38 MA's), (24, 26003), (30, 26093), (41, 26180), (49, 26234),

Gene: Thiqqums_27 Start: 24163, Stop: 24540, Start Num: 14

Candidate Starts for Thiqqums_27:

(Start: 14 @24163 has 38 MA's), (16, 24181), (Start: 20 @24223 has 1 MA's), (23, 24247), (28, 24319), (31, 24355), (41, 24436),

Gene: TieDye_28 Start: 24951, Stop: 25310, Start Num: 14

Candidate Starts for TieDye_28:

(Start: 14 @24951 has 38 MA's), (24, 25047), (30, 25137), (41, 25224), (49, 25278),

Gene: TonyStarch_29 Start: 25265, Stop: 25624, Start Num: 14

Candidate Starts for TonyStarch_29:

(Start: 14 @25265 has 38 MA's), (24, 25361), (30, 25451), (41, 25538), (49, 25592),

Gene: Wigberry_30 Start: 24678, Stop: 25073, Start Num: 14

Candidate Starts for Wigberry_30:

(11, 24630), (Start: 14 @24678 has 38 MA's), (15, 24684), (Start: 17 @24714 has 2 MA's), (21, 24741), (23, 24762), (28, 24834), (37, 24921), (38, 24936), (43, 24966), (44, 24975), (48, 25011),