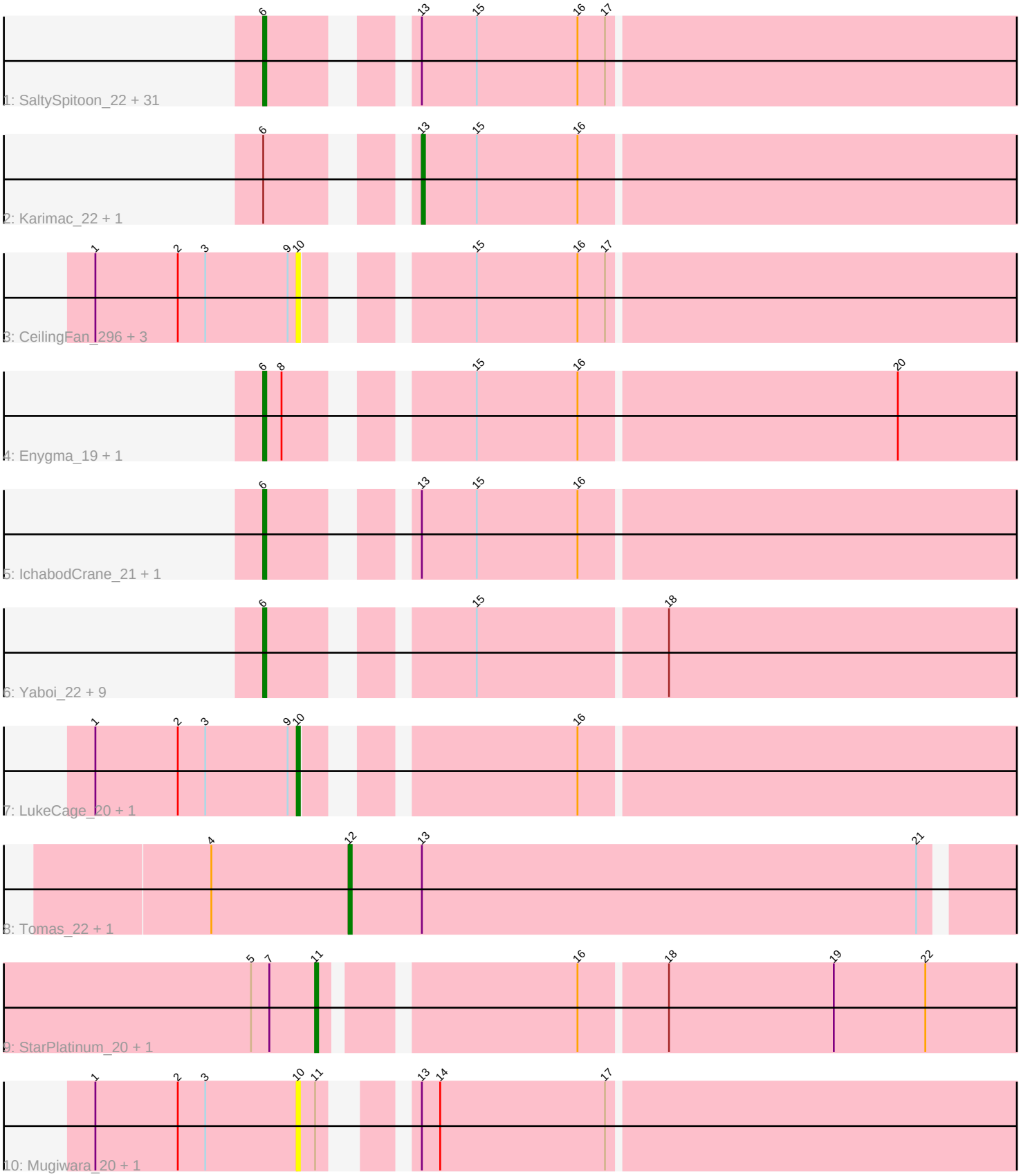
Pham 1930


6
13
15
16
17
1: SaltySpitoon_22 + 31
6
13
15
16
2: Karimac_22 + 1
1
2
3
9
10
15
16
17
3: CeilingFan_296 + 3
6
8
15
16
20
4: Enygma_19 + 1
6
13
15
16
5: IchabodCrane_21 + 1
6
15
18
6: Yaboi_22 + 9
1
2
3
9
10
16
7: LukeCage_20 + 1
4
12
13
21
8: Tomas_22 + 1
5
7
11
16
18
19
22
9: StarPlatinum_20 + 1
1
2
3
10
11
13
14
17
10: Mugiwara_20 + 1

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 1930 Report

This analysis was run 07/09/24 on database version 566.

Pham number 1930 has 60 members, 10 are drafts.

Phages represented in each track:
• Track 1 : SaltySpitoon_22, Battuta_279, Spilled_21, Birchlyn_279, Spelly_288, TomSawyer_287, Starbow_279, SaltySpitoon_282, Gibbi_296, Jollison_26, Jollison_290, Bordeaux_279, Birchlyn_19, JimJam_22, JimJam_290, Wipeout_21, Spelly_22, Amabiko_23, Quaran19_283, Amabiko_287, PumpkinSpice_22, MindFlayer_21, Starbow_22, Spilled_289, Battuta_22, Wipeout_275, PumpkinSpice_286, TomSawyer_22, Gibbi_25, Quaran19_22, Bordeaux_22, MindFlayer_273
• Track 2 : Karimac_22, Karimac_280
• Track 3 : CeilingFan_296, KentuckyRacer_22, KentuckyRacer_296, CeilingFan_22
• Track 4 : Enygma_19, Enygma_287
• Track 5 : IchabodCrane_21, IchabodCrane_274
• Track 6 : Yaboi_22, Genie2_23, Sollertia_279, BoomerJR_278, Yaboi_283, Stanimal_23, Sollertia_23, Stanimal_278, BoomerJR_23, Genie2_278
• Track 7 : LukeCage_20, LukeCage_283
• Track 8 : Tomas_22, Tomas_278
• Track 9 : StarPlatinum_20, StarPlatinum_290
• Track 10 : Mugiwara_20, Mugiwara_292

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

The start number called the most often in the published annotations is 6, it was called in 42 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amabiko_23, Amabiko_287, Battuta_22, Battuta_279, Birchlyn_19, Birchlyn_279, BoomerJR_23, BoomerJR_278, Bordeaux_22, Bordeaux_279, Enygma_19, Enygma_287, Genie2_23, Genie2_278, Gibbi_25, Gibbi_296, IchabodCrane_21, IchabodCrane_274, JimJam_22, JimJam_290, Jollison_26, Jollison_290, MindFlayer_21, MindFlayer_273, PumpkinSpice_22, PumpkinSpice_286, Quaran19_22, Quaran19_283, SaltySpitoon_22, SaltySpitoon_282, Sollertia_23, Sollertia_279, Spelly_22, Spelly_288, Spilled_21, Spilled_289, Stanimal_23, Stanimal_278, Starbow_22, Starbow_279, TomSawyer_22, TomSawyer_287, Wipeout_21, Wipeout_275, Yaboi_22, Yaboi_283,

Genes that have the "Most Annotated" start but do not call it:
• Karimac_22, Karimac_280,

Genes that do not have the "Most Annotated" start:
• CeilingFan_22, CeilingFan_296, KentuckyRacer_22, KentuckyRacer_296, LukeCage_20, LukeCage_283, Mugiwara_20, Mugiwara_292, StarPlatinum_20, StarPlatinum_290, Tomas_22, Tomas_278,

Summary by start number:

Start 6:
• Found in 48 of 60 (80.0%) of genes in pham
• Manual Annotations of this start: 42 of 50
• Called 95.8% of time when present
• Phage (with cluster) where this start called: Amabiko_23 (BE2), Amabiko_287 (BE2), Battuta_22 (BE2), Battuta_279 (BE2), Birchlyn_19 (BE2), Birchlyn_279 (BE2), BoomerJR_23 (BE2), BoomerJR_278 (BE2), Bordeaux_22 (BE2), Bordeaux_279 (BE2), Enygma_19 (BE2), Enygma_287 (BE2), Genie2_23 (BE2), Genie2_278 (BE2), Gibbi_25 (BE2), Gibbi_296 (BE2), IchabodCrane_21 (BE2), IchabodCrane_274 (BE2), JimJam_22 (BE2), JimJam_290 (BE2), Jollison_26 (BE2), Jollison_290 (BE2), MindFlayer_21 (BE2), MindFlayer_273 (BE2), PumpkinSpice_22 (BE2), PumpkinSpice_286 (BE2), Quaran19_22 (BE2), Quaran19_283 (BE2), SaltySpitoon_22 (BE2), SaltySpitoon_282 (BE2), Sollertia_23 (BE2), Sollertia_279 (BE2), Spelly_22 (BE2), Spelly_288 (BE2), Spilled_21 (BE2), Spilled_289 (BE2), Stanimal_23 (BE2), Stanimal_278 (BE2), Starbow_22 (BE2), Starbow_279 (BE2), TomSawyer_22 (BE2), TomSawyer_287 (BE2), Wipeout_21 (BE2), Wipeout_275 (BE2), Yaboi_22 (BE2), Yaboi_283 (BE2),

Start 10:
• Found in 8 of 60 (13.3%) of genes in pham
• Manual Annotations of this start: 2 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CeilingFan_22 (BE2), CeilingFan_296 (BE2), KentuckyRacer_22 (BE2), KentuckyRacer_296 (BE2), LukeCage_20 (BE2), LukeCage_283 (BE2), Mugiwara_20 (BE2), Mugiwara_292 (BE2),

Start 11:
• Found in 4 of 60 (6.7%) of genes in pham
• Manual Annotations of this start: 2 of 50
• Called 50.0% of time when present
• Phage (with cluster) where this start called: StarPlatinum_20 (BE2), StarPlatinum_290 (BE2),

Start 12:
• Found in 2 of 60 (3.3%) of genes in pham
• Manual Annotations of this start: 2 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tomas_22 (BE2), Tomas_278 (BE2),

Start 13:
• Found in 40 of 60 (66.7%) of genes in pham
• Manual Annotations of this start: 2 of 50
• Called 5.0% of time when present

• Phage (with cluster) where this start called: Karimac_22 (BE2), Karimac_280 (BE2),

Summary by clusters:

There is one cluster represented in this pham: BE2

Info for manual annotations of cluster BE2:
•Start number 6 was manually annotated 42 times for cluster BE2.
•Start number 10 was manually annotated 2 times for cluster BE2.
•Start number 11 was manually annotated 2 times for cluster BE2.
•Start number 12 was manually annotated 2 times for cluster BE2.
•Start number 13 was manually annotated 2 times for cluster BE2.

Gene Information:

Gene: Amabiko_23 Start: 10511, Stop: 10263, Start Num: 6
Candidate Starts for Amabiko_23:
(Start: 6 @10511 has 42 MA's), (Start: 13 @10475 has 2 MA's), (15, 10457), (16, 10424), (17, 10415),

Gene: Amabiko_287 Start: 129337, Stop: 129089, Start Num: 6
Candidate Starts for Amabiko_287:
(Start: 6 @129337 has 42 MA's), (Start: 13 @129301 has 2 MA's), (15, 129283), (16, 129250), (17, 129241),

Gene: Battuta_279 Start: 128666, Stop: 128418, Start Num: 6
Candidate Starts for Battuta_279:
(Start: 6 @128666 has 42 MA's), (Start: 13 @128630 has 2 MA's), (15, 128612), (16, 128579), (17, 128570),

Gene: Battuta_22 Start: 10511, Stop: 10263, Start Num: 6
Candidate Starts for Battuta_22:
(Start: 6 @10511 has 42 MA's), (Start: 13 @10475 has 2 MA's), (15, 10457), (16, 10424), (17, 10415),

Gene: Birchlyn_279 Start: 124455, Stop: 124207, Start Num: 6
Candidate Starts for Birchlyn_279:
(Start: 6 @124455 has 42 MA's), (Start: 13 @124419 has 2 MA's), (15, 124401), (16, 124368), (17, 124359),

Gene: Birchlyn_19 Start: 8364, Stop: 8116, Start Num: 6
Candidate Starts for Birchlyn_19:
(Start: 6 @8364 has 42 MA's), (Start: 13 @8328 has 2 MA's), (15, 8310), (16, 8277), (17, 8268),

Gene: BoomerJR_278 Start: 129198, Stop: 128950, Start Num: 6
Candidate Starts for BoomerJR_278:
(Start: 6 @129198 has 42 MA's), (15, 129144), (18, 129084),

Gene: BoomerJR_23 Start: 10410, Stop: 10162, Start Num: 6
Candidate Starts for BoomerJR_23:
(Start: 6 @10410 has 42 MA's), (15, 10356), (18, 10296),

Gene: Bordeaux_279 Start: 129249, Stop: 129001, Start Num: 6

Candidate Starts for Bordeaux_279:
(Start: 6 @129249 has 42 MA's), (Start: 13 @129213 has 2 MA's), (15, 129195), (16, 129162), (17, 129153),

Gene: Bordeaux_22 Start: 10511, Stop: 10263, Start Num: 6
Candidate Starts for Bordeaux_22:
(Start: 6 @10511 has 42 MA's), (Start: 13 @10475 has 2 MA's), (15, 10457), (16, 10424), (17, 10415),

Gene: CeilingFan_296 Start: 130556, Stop: 130326, Start Num: 10
Candidate Starts for CeilingFan_296:
(1, 130622), (2, 130595), (3, 130586), (9, 130559), (Start: 10 @130556 has 2 MA's), (15, 130514), (16, 130481), (17, 130472),

Gene: CeilingFan_22 Start: 9949, Stop: 9719, Start Num: 10
Candidate Starts for CeilingFan_22:
(1, 10015), (2, 9988), (3, 9979), (9, 9952), (Start: 10 @9949 has 2 MA's), (15, 9907), (16, 9874), (17, 9865),

Gene: Enygma_19 Start: 9533, Stop: 9291, Start Num: 6
Candidate Starts for Enygma_19:
(Start: 6 @9533 has 42 MA's), (8, 9527), (15, 9479), (16, 9446), (20, 9344),

Gene: Enygma_287 Start: 131957, Stop: 131715, Start Num: 6
Candidate Starts for Enygma_287:
(Start: 6 @131957 has 42 MA's), (8, 131951), (15, 131903), (16, 131870), (20, 131768),

Gene: Genie2_23 Start: 10410, Stop: 10162, Start Num: 6
Candidate Starts for Genie2_23:
(Start: 6 @10410 has 42 MA's), (15, 10356), (18, 10296),

Gene: Genie2_278 Start: 129311, Stop: 129063, Start Num: 6
Candidate Starts for Genie2_278:
(Start: 6 @129311 has 42 MA's), (15, 129257), (18, 129197),

Gene: Gibbi_296 Start: 130222, Stop: 129974, Start Num: 6
Candidate Starts for Gibbi_296:
(Start: 6 @130222 has 42 MA's), (Start: 13 @130186 has 2 MA's), (15, 130168), (16, 130135), (17, 130126),

Gene: Gibbi_25 Start: 10122, Stop: 9874, Start Num: 6
Candidate Starts for Gibbi_25:
(Start: 6 @10122 has 42 MA's), (Start: 13 @10086 has 2 MA's), (15, 10068), (16, 10035), (17, 10026),

Gene: IchabodCrane_21 Start: 10119, Stop: 9871, Start Num: 6
Candidate Starts for IchabodCrane_21:
(Start: 6 @10119 has 42 MA's), (Start: 13 @10083 has 2 MA's), (15, 10065), (16, 10032),

Gene: IchabodCrane_274 Start: 128662, Stop: 128414, Start Num: 6
Candidate Starts for IchabodCrane_274:
(Start: 6 @128662 has 42 MA's), (Start: 13 @128626 has 2 MA's), (15, 128608), (16, 128575),

Gene: JimJam_22 Start: 10510, Stop: 10262, Start Num: 6
Candidate Starts for JimJam_22:

(Start: 6 @10510 has 42 MA's), (Start: 13 @10474 has 2 MA's), (15, 10456), (16, 10423), (17, 10414),

Gene: JimJam_290 Start: 132046, Stop: 131798, Start Num: 6
Candidate Starts for JimJam_290:
(Start: 6 @132046 has 42 MA's), (Start: 13 @132010 has 2 MA's), (15, 131992), (16, 131959), (17, 131950),

Gene: Jollison_26 Start: 10511, Stop: 10263, Start Num: 6
Candidate Starts for Jollison_26:
(Start: 6 @10511 has 42 MA's), (Start: 13 @10475 has 2 MA's), (15, 10457), (16, 10424), (17, 10415),

Gene: Jollison_290 Start: 129186, Stop: 128938, Start Num: 6
Candidate Starts for Jollison_290:
(Start: 6 @129186 has 42 MA's), (Start: 13 @129150 has 2 MA's), (15, 129132), (16, 129099), (17, 129090),

Gene: Karimac_22 Start: 10477, Stop: 10265, Start Num: 13
Candidate Starts for Karimac_22:
(Start: 6 @10513 has 42 MA's), (Start: 13 @10477 has 2 MA's), (15, 10459), (16, 10426),

Gene: Karimac_280 Start: 129796, Stop: 129584, Start Num: 13
Candidate Starts for Karimac_280:
(Start: 6 @129832 has 42 MA's), (Start: 13 @129796 has 2 MA's), (15, 129778), (16, 129745),

Gene: KentuckyRacer_22 Start: 9950, Stop: 9720, Start Num: 10
Candidate Starts for KentuckyRacer_22:
(1, 10016), (2, 9989), (3, 9980), (9, 9953), (Start: 10 @9950 has 2 MA's), (15, 9908), (16, 9875), (17, 9866),

Gene: KentuckyRacer_296 Start: 131401, Stop: 131171, Start Num: 10
Candidate Starts for KentuckyRacer_296:
(1, 131467), (2, 131440), (3, 131431), (9, 131404), (Start: 10 @131401 has 2 MA's), (15, 131359), (16, 131326), (17, 131317),

Gene: LukeCage_20 Start: 9902, Stop: 9672, Start Num: 10
Candidate Starts for LukeCage_20:
(1, 9968), (2, 9941), (3, 9932), (9, 9905), (Start: 10 @9902 has 2 MA's), (16, 9827),

Gene: LukeCage_283 Start: 130806, Stop: 130576, Start Num: 10
Candidate Starts for LukeCage_283:
(1, 130872), (2, 130845), (3, 130836), (9, 130809), (Start: 10 @130806 has 2 MA's), (16, 130731),

Gene: MindFlayer_21 Start: 10121, Stop: 9873, Start Num: 6
Candidate Starts for MindFlayer_21:
(Start: 6 @10121 has 42 MA's), (Start: 13 @10085 has 2 MA's), (15, 10067), (16, 10034), (17, 10025),

Gene: MindFlayer_273 Start: 128181, Stop: 127933, Start Num: 6
Candidate Starts for MindFlayer_273:
(Start: 6 @128181 has 42 MA's), (Start: 13 @128145 has 2 MA's), (15, 128127), (16, 128094), (17, 128085),

Gene: Mugiwara_20 Start: 9548, Stop: 9318, Start Num: 10
Candidate Starts for Mugiwara_20:

(1, 9614), (2, 9587), (3, 9578), (Start: 10 @9548 has 2 MA's), (Start: 11 @9542 has 2 MA's), (Start: 13 @9524 has 2 MA's), (14, 9518), (17, 9464),

Gene: Mugiwara_292 Start: 130933, Stop: 130703, Start Num: 10
Candidate Starts for Mugiwara_292:
(1, 130999), (2, 130972), (3, 130963), (Start: 10 @130933 has 2 MA's), (Start: 11 @130927 has 2 MA's), (Start: 13 @130909 has 2 MA's), (14, 130903), (17, 130849),

Gene: PumpkinSpice_22 Start: 10511, Stop: 10263, Start Num: 6
Candidate Starts for PumpkinSpice_22:
(Start: 6 @10511 has 42 MA's), (Start: 13 @10475 has 2 MA's), (15, 10457), (16, 10424), (17, 10415),

Gene: PumpkinSpice_286 Start: 130403, Stop: 130155, Start Num: 6
Candidate Starts for PumpkinSpice_286:
(Start: 6 @130403 has 42 MA's), (Start: 13 @130367 has 2 MA's), (15, 130349), (16, 130316), (17, 130307),

Gene: Quaran19_283 Start: 129693, Stop: 129445, Start Num: 6
Candidate Starts for Quaran19_283:
(Start: 6 @129693 has 42 MA's), (Start: 13 @129657 has 2 MA's), (15, 129639), (16, 129606), (17, 129597),

Gene: Quaran19_22 Start: 10511, Stop: 10263, Start Num: 6
Candidate Starts for Quaran19_22:
(Start: 6 @10511 has 42 MA's), (Start: 13 @10475 has 2 MA's), (15, 10457), (16, 10424), (17, 10415),

Gene: SaltySpitoon_22 Start: 10511, Stop: 10263, Start Num: 6
Candidate Starts for SaltySpitoon_22:
(Start: 6 @10511 has 42 MA's), (Start: 13 @10475 has 2 MA's), (15, 10457), (16, 10424), (17, 10415),

Gene: SaltySpitoon_282 Start: 128775, Stop: 128527, Start Num: 6
Candidate Starts for SaltySpitoon_282:
(Start: 6 @128775 has 42 MA's), (Start: 13 @128739 has 2 MA's), (15, 128721), (16, 128688), (17, 128679),

Gene: Sollertia_279 Start: 129300, Stop: 129052, Start Num: 6
Candidate Starts for Sollertia_279:
(Start: 6 @129300 has 42 MA's), (15, 129246), (18, 129186),

Gene: Sollertia_23 Start: 10410, Stop: 10162, Start Num: 6
Candidate Starts for Sollertia_23:
(Start: 6 @10410 has 42 MA's), (15, 10356), (18, 10296),

Gene: Spelly_288 Start: 129315, Stop: 129067, Start Num: 6
Candidate Starts for Spelly_288:
(Start: 6 @129315 has 42 MA's), (Start: 13 @129279 has 2 MA's), (15, 129261), (16, 129228), (17, 129219),

Gene: Spelly_22 Start: 10511, Stop: 10263, Start Num: 6
Candidate Starts for Spelly_22:
(Start: 6 @10511 has 42 MA's), (Start: 13 @10475 has 2 MA's), (15, 10457), (16, 10424), (17, 10415),

Gene: Spilled_21 Start: 10121, Stop: 9873, Start Num: 6

Candidate Starts for Spilled_21:
(Start: 6 @10121 has 42 MA's), (Start: 13 @10085 has 2 MA's), (15, 10067), (16, 10034), (17, 10025),

Gene: Spilled_289 Start: 130590, Stop: 130342, Start Num: 6
Candidate Starts for Spilled_289:
(Start: 6 @130590 has 42 MA's), (Start: 13 @130554 has 2 MA's), (15, 130536), (16, 130503), (17, 130494),

Gene: Stanimal_23 Start: 10410, Stop: 10162, Start Num: 6
Candidate Starts for Stanimal_23:
(Start: 6 @10410 has 42 MA's), (15, 10356), (18, 10296),

Gene: Stanimal_278 Start: 129684, Stop: 129436, Start Num: 6
Candidate Starts for Stanimal_278:
(Start: 6 @129684 has 42 MA's), (15, 129630), (18, 129570),

Gene: StarPlatinum_20 Start: 9965, Stop: 9735, Start Num: 11
Candidate Starts for StarPlatinum_20:
(5, 9986), (7, 9980), (Start: 11 @9965 has 2 MA's), (16, 9890), (18, 9863), (19, 9809), (22, 9779),

Gene: StarPlatinum_290 Start: 131652, Stop: 131422, Start Num: 11
Candidate Starts for StarPlatinum_290:
(5, 131673), (7, 131667), (Start: 11 @131652 has 2 MA's), (16, 131577), (18, 131550), (19, 131496), (22, 131466),

Gene: Starbow_279 Start: 129359, Stop: 129111, Start Num: 6
Candidate Starts for Starbow_279:
(Start: 6 @129359 has 42 MA's), (Start: 13 @129323 has 2 MA's), (15, 129305), (16, 129272), (17, 129263),

Gene: Starbow_22 Start: 10511, Stop: 10263, Start Num: 6
Candidate Starts for Starbow_22:
(Start: 6 @10511 has 42 MA's), (Start: 13 @10475 has 2 MA's), (15, 10457), (16, 10424), (17, 10415),

Gene: TomSawyer_287 Start: 131883, Stop: 131635, Start Num: 6
Candidate Starts for TomSawyer_287:
(Start: 6 @131883 has 42 MA's), (Start: 13 @131847 has 2 MA's), (15, 131829), (16, 131796), (17, 131787),

Gene: TomSawyer_22 Start: 10104, Stop: 9856, Start Num: 6
Candidate Starts for TomSawyer_22:
(Start: 6 @10104 has 42 MA's), (Start: 13 @10068 has 2 MA's), (15, 10050), (16, 10017), (17, 10008),

Gene: Tomas_22 Start: 10589, Stop: 10365, Start Num: 12
Candidate Starts for Tomas_22:
(4, 10634), (Start: 12 @10589 has 2 MA's), (Start: 13 @10565 has 2 MA's), (21, 10403),

Gene: Tomas_278 Start: 132296, Stop: 132072, Start Num: 12
Candidate Starts for Tomas_278:
(4, 132341), (Start: 12 @132296 has 2 MA's), (Start: 13 @132272 has 2 MA's), (21, 132110),

Gene: Wipeout_21 Start: 10126, Stop: 9878, Start Num: 6
Candidate Starts for Wipeout_21:

(Start: 6 @10126 has 42 MA's), (Start: 13 @10090 has 2 MA's), (15, 10072), (16, 10039), (17, 10030),

Gene: Wipeout_275 Start: 130857, Stop: 130609, Start Num: 6
Candidate Starts for Wipeout_275:
(Start: 6 @130857 has 42 MA's), (Start: 13 @130821 has 2 MA's), (15, 130803), (16, 130770), (17, 130761),

Gene: Yaboi_22 Start: 10410, Stop: 10162, Start Num: 6
Candidate Starts for Yaboi_22:
(Start: 6 @10410 has 42 MA's), (15, 10356), (18, 10296),

Gene: Yaboi_283 Start: 129228, Stop: 128980, Start Num: 6
Candidate Starts for Yaboi_283:
(Start: 6 @129228 has 42 MA's), (15, 129174), (18, 129114),