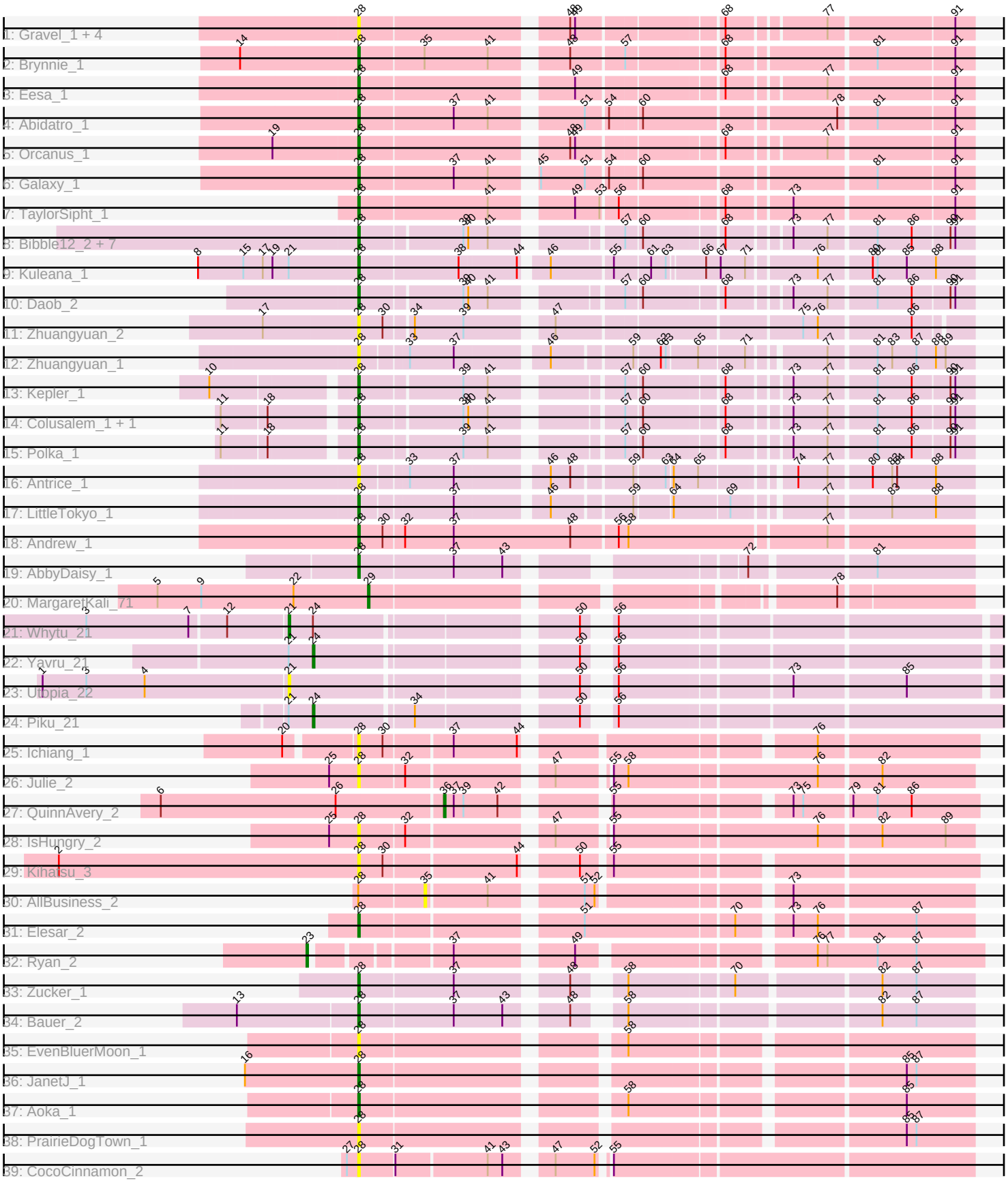
Pham 198149


1: Gravel_1 + 4
2: Brynnie_1
3: Eesa_1
4: Abidatro_1
5: Orcanus_1
6: Galaxy_1
7: TaylorSipht_1
8: Bibble12_2 + 7
9: Kuleana_1
10: Daob_2
11: Zhuangyuan_2
12: Zhuangyuan_1
13: Kepler_1
14: Colusalem_1 + 1
15: Polka_1
16: Antrice_1
17: LittleTokyo_1
18: Andrew_1
19: AbbyDaisy_1
20: MargaretKali_71
21: Whytu_21
22: Yavru_21
23: Utopia_22
24: Piku_21
25: Ichiang_1
26: Julie_2
27: QuinnAvery_2
28: IsHungry_2
29: Kihatsu_3
30: AllBusiness_2
31: Elesar_2
32: Ryan_2
33: Zucker_1
34: Bauer_2
35: EvenBluerMoon_1
36: JanetJ_1
37: Aoka_1
38: PrairieDogTown_1
39: CocoCinnamon_2

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 198149 Report

This analysis was run 01/18/25 on database version 583.

Pham number 198149 has 51 members, 21 are drafts.

Phages represented in each track:
- Track 1 : Gravel_1, KendraB23_1, Pelletreau_1, Westrich_1, Toad24_1
- Track 2 : Brynnie_1
- Track 3 : Eesa_1
- Track 4 : Abidatro_1
- Track 5 : Orcanus_1
- Track 6 : Galaxy_1
- Track 7 : TaylorSipht_1
- Track 8 : Bibble12_2, Amelia_2, Cote_2, HannahPhantana_2, Melons_2, Jerole_2, Bedetta_2, Lunar_2
- Track 9 : Kuleana_1
- Track 10 : Daob_2
- Track 11 : Zhuangyuan_2
- Track 12 : Zhuangyuan_1
- Track 13 : Kepler_1
- Track 14 : Colusalem_1, Coral_1
- Track 15 : Polka_1
- Track 16 : Antrice_1
- Track 17 : LittleTokyo_1
- Track 18 : Andrew_1
- Track 19 : AbbyDaisy_1
- Track 20 : MargaretKali_71
- Track 21 : Whytu_21
- Track 22 : Yavru_21
- Track 23 : Utopia_22
- Track 24 : Piku_21
- Track 25 : Ichiang_1
- Track 26 : Julie_2
- Track 27 : QuinnAvery_2
- Track 28 : IsHungry_2
- Track 29 : Kihatsu_3
- Track 30 : AllBusiness_2
- Track 31 : Elesar_2
- Track 32 : Ryan_2
- Track 33 : Zucker_1
- Track 34 : Bauer_2
- Track 35 : EvenBluerMoon_1
- Track 36 : JanetJ_1

• Track 37 : Aoka_1
• Track 38 : PrairieDogTown_1
• Track 39 : CocoCinnamon_2

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

The start number called the most often in the published annotations is 28, it was called in 24 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AbbyDaisy_1, Abidatro_1, Amelia_2, Andrew_1, Antrice_1, Aoka_1, Bauer_2, Bedetta_2, Bibble12_2, Brynnie_1, CocoCinnamon_2, Colusalem_1, Coral_1, Cote_2, Daob_2, Eesa_1, Elesar_2, EvenBluerMoon_1, Galaxy_1, Gravel_1, HannahPhantana_2, Ichiang_1, IsHungry_2, JanetJ_1, Jerole_2, Julie_2, KendraB23_1, Kepler_1, Kihatsu_3, Kuleana_1, LittleTokyo_1, Lunar_2, Melons_2, Orcanus_1, Pelletreau_1, Polka_1, PrairieDogTown_1, TaylorSipht_1, Toad24_1, Westrich_1, Zhuangyuan_1, Zhuangyuan_2, Zucker_1,

Genes that have the "Most Annotated" start but do not call it:
• AllBusiness_2,

Genes that do not have the "Most Annotated" start:
• MargaretKali_71, Piku_21, QuinnAvery_2, Ryan_2, Utopia_22, Whytu_21, Yavru_21,

Summary by start number:

Start 21:
• Found in 5 of 51 (9.8%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Utopia_22 (FE), Whytu_21 (FE),

Start 23:
• Found in 1 of 51 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ryan_2 (FF),

Start 24:
• Found in 3 of 51 (5.9%) of genes in pham
• Manual Annotations of this start: 2 of 30
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Piku_21 (FE), Yavru_21 (FE),

Start 28:
• Found in 44 of 51 (86.3%) of genes in pham
• Manual Annotations of this start: 24 of 30
• Called 97.7% of time when present

• Phage (with cluster) where this start called: AbbyDaisy_1 (AY), Abidatro_1 (AS1), Amelia_2 (AS2), Andrew_1 (AS3), Antrice_1 (AS2), Aoka_1 (FO), Bauer_2 (FN), Bedetta_2 (AS2), Bibble12_2 (AS2), Brynnie_1 (AS1), CocoCinnamon_2 (FO), Colusalem_1 (AS2), Coral_1 (AS2), Cote_2 (AS2), Daob_2 (AS2), Eesa_1 (AS1), Elesar_2 (FF), EvenBluerMoon_1 (FO), Galaxy_1 (AS1), Gravel_1 (AS1), HannahPhantana_2 (AS2), Ichiang_1 (FF), IsHungry_2 (FF), JanetJ_1 (FO), Jerole_2 (AS2), Julie_2 (FF), KendraB23_1 (AS1), Kepler_1 (AS2), Kihatsu_3 (FF), Kuleana_1 (AS2), LittleTokyo_1 (AS2), Lunar_2 (AS2), Melons_2 (AS2), Orcanus_1 (AS1), Pelletreau_1 (AS1), Polka_1 (AS2), PrairieDogTown_1 (FO), TaylorSipht_1 (AS1), Toad24_1 (AS1), Westrich_1 (AS1), Zhuangyuan_1 (AS2), Zhuangyuan_2 (AS2), Zucker_1 (FN),

Start 29:
• Found in 1 of 51 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MargaretKali_71 (FB),

Start 35:
• Found in 2 of 51 (3.9%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: AllBusiness_2 (FF),

Start 36:
• Found in 1 of 51 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: QuinnAvery_2 (FF),

Summary by clusters:

There are 9 clusters represented in this pham: AS3, AS2, AS1, FB, FE, FF, AY, FN, FO,

Info for manual annotations of cluster AS1:
•Start number 28 was manually annotated 6 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 28 was manually annotated 11 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 28 was manually annotated 1 time for cluster AS3.

Info for manual annotations of cluster AY:
•Start number 28 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FB:
•Start number 29 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FE:
•Start number 21 was manually annotated 1 time for cluster FE.
•Start number 24 was manually annotated 2 times for cluster FE.

Info for manual annotations of cluster FF:
•Start number 23 was manually annotated 1 time for cluster FF.
•Start number 28 was manually annotated 1 time for cluster FF.
•Start number 36 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster FN:
•Start number 28 was manually annotated 2 times for cluster FN.

Info for manual annotations of cluster FO:
•Start number 28 was manually annotated 2 times for cluster FO.

Gene Information:

Gene: AbbyDaisy_1 Start: 69, Stop: 401, Start Num: 28
Candidate Starts for AbbyDaisy_1:
(Start: 28 @69 has 24 MA's), (37, 126), (43, 156), (72, 273), (81, 342),

Gene: Abidatro_1 Start: 98, Stop: 442, Start Num: 28
Candidate Starts for Abidatro_1:
(Start: 28 @98 has 24 MA's), (37, 155), (41, 176), (51, 224), (54, 236), (60, 254), (78, 365), (81, 386), (91, 431),

Gene: AllBusiness_2 Start: 464, Stop: 763, Start Num: 35
Candidate Starts for AllBusiness_2:
(Start: 28 @425 has 24 MA's), (35, 464), (41, 500), (51, 548), (52, 554), (73, 656),

Gene: Amelia_2 Start: 264, Stop: 596, Start Num: 28
Candidate Starts for Amelia_2:
(Start: 28 @264 has 24 MA's), (39, 324), (40, 327), (41, 339), (57, 405), (60, 414), (68, 459), (73, 492), (77, 513), (81, 540), (86, 561), (90, 582), (91, 585),

Gene: Andrew_1 Start: 98, Stop: 463, Start Num: 28
Candidate Starts for Andrew_1:
(Start: 28 @98 has 24 MA's), (30, 113), (32, 125), (37, 155), (48, 227), (56, 254), (58, 260), (77, 377),

Gene: Antrice_1 Start: 92, Stop: 430, Start Num: 28
Candidate Starts for Antrice_1:
(Start: 28 @92 has 24 MA's), (33, 119), (37, 146), (46, 197), (48, 209), (59, 242), (63, 260), (64, 263), (65, 278), (74, 326), (77, 344), (80, 368), (83, 380), (84, 383), (88, 407),

Gene: Aoka_1 Start: 69, Stop: 407, Start Num: 28
Candidate Starts for Aoka_1:
(Start: 28 @69 has 24 MA's), (58, 213), (85, 366),

Gene: Bauer_2 Start: 736, Stop: 1071, Start Num: 28
Candidate Starts for Bauer_2:
(13, 664), (Start: 28 @736 has 24 MA's), (37, 793), (43, 823), (48, 853), (58, 874), (82, 1015), (87, 1036),

Gene: Bedetta_2 Start: 264, Stop: 596, Start Num: 28

Candidate Starts for Bedetta_2:
(Start: 28 @264 has 24 MA's), (39, 324), (40, 327), (41, 339), (57, 405), (60, 414), (68, 459), (73, 492), (77, 513), (81, 540), (86, 561), (90, 582), (91, 585),

Gene: Bibble12_2 Start: 264, Stop: 596, Start Num: 28
Candidate Starts for Bibble12_2:
(Start: 28 @264 has 24 MA's), (39, 324), (40, 327), (41, 339), (57, 405), (60, 414), (68, 459), (73, 492), (77, 513), (81, 540), (86, 561), (90, 582), (91, 585),

Gene: Brynnie_1 Start: 98, Stop: 439, Start Num: 28
Candidate Starts for Brynnie_1:
(14, 26), (Start: 28 @98 has 24 MA's), (35, 137), (41, 176), (48, 215), (57, 245), (68, 299), (81, 383), (91, 428),

Gene: CocoCinnamon_2 Start: 287, Stop: 631, Start Num: 28
Candidate Starts for CocoCinnamon_2:
(27, 281), (Start: 28 @287 has 24 MA's), (31, 308), (41, 362), (43, 371), (47, 392), (52, 416), (55, 419),

Gene: Colusalem_1 Start: 100, Stop: 432, Start Num: 28
Candidate Starts for Colusalem_1:
(11, 28), (18, 55), (Start: 28 @100 has 24 MA's), (39, 160), (40, 163), (41, 175), (57, 241), (60, 250), (68, 295), (73, 328), (77, 349), (81, 376), (86, 397), (90, 418), (91, 421),

Gene: Coral_1 Start: 100, Stop: 432, Start Num: 28
Candidate Starts for Coral_1:
(11, 28), (18, 55), (Start: 28 @100 has 24 MA's), (39, 160), (40, 163), (41, 175), (57, 241), (60, 250), (68, 295), (73, 328), (77, 349), (81, 376), (86, 397), (90, 418), (91, 421),

Gene: Cote_2 Start: 264, Stop: 596, Start Num: 28
Candidate Starts for Cote_2:
(Start: 28 @264 has 24 MA's), (39, 324), (40, 327), (41, 339), (57, 405), (60, 414), (68, 459), (73, 492), (77, 513), (81, 540), (86, 561), (90, 582), (91, 585),

Gene: Daob_2 Start: 264, Stop: 596, Start Num: 28
Candidate Starts for Daob_2:
(Start: 28 @264 has 24 MA's), (39, 324), (40, 327), (41, 339), (57, 405), (60, 414), (68, 459), (73, 492), (77, 513), (81, 540), (86, 561), (90, 582), (91, 585),

Gene: Eesa_1 Start: 97, Stop: 435, Start Num: 28
Candidate Starts for Eesa_1:
(Start: 28 @97 has 24 MA's), (49, 217), (68, 298), (77, 352), (91, 424),

Gene: Elesar_2 Start: 346, Stop: 690, Start Num: 28
Candidate Starts for Elesar_2:
(Start: 28 @346 has 24 MA's), (51, 469), (70, 556), (73, 583), (76, 598), (87, 655),

Gene: EvenBluerMoon_1 Start: 69, Stop: 407, Start Num: 28
Candidate Starts for EvenBluerMoon_1:
(Start: 28 @69 has 24 MA's), (58, 213),

Gene: Galaxy_1 Start: 98, Stop: 442, Start Num: 28
Candidate Starts for Galaxy_1:

(Start: 28 @98 has 24 MA's), (37, 155), (41, 176), (45, 197), (51, 224), (54, 236), (60, 254), (81, 386), (91, 431),

Gene: Gravel_1 Start: 97, Stop: 435, Start Num: 28
Candidate Starts for Gravel_1:
(Start: 28 @97 has 24 MA's), (48, 214), (49, 217), (68, 298), (77, 352), (91, 424),

Gene: HannahPhantana_2 Start: 264, Stop: 596, Start Num: 28
Candidate Starts for HannahPhantana_2:
(Start: 28 @264 has 24 MA's), (39, 324), (40, 327), (41, 339), (57, 405), (60, 414), (68, 459), (73, 492), (77, 513), (81, 540), (86, 561), (90, 582), (91, 585),

Gene: Ichiang_1 Start: 90, Stop: 431, Start Num: 28
Candidate Starts for Ichiang_1:
(20, 51), (Start: 28 @90 has 24 MA's), (30, 105), (37, 144), (44, 183), (76, 336),

Gene: IsHungry_2 Start: 328, Stop: 672, Start Num: 28
Candidate Starts for IsHungry_2:
(25, 310), (Start: 28 @328 has 24 MA's), (32, 355), (47, 433), (55, 460), (76, 580), (82, 616), (89, 655),

Gene: JanetJ_1 Start: 70, Stop: 408, Start Num: 28
Candidate Starts for JanetJ_1:
(16, 1), (Start: 28 @70 has 24 MA's), (85, 367), (87, 373),

Gene: Jerole_2 Start: 264, Stop: 596, Start Num: 28
Candidate Starts for Jerole_2:
(Start: 28 @264 has 24 MA's), (39, 324), (40, 327), (41, 339), (57, 405), (60, 414), (68, 459), (73, 492), (77, 513), (81, 540), (86, 561), (90, 582), (91, 585),

Gene: Julie_2 Start: 328, Stop: 672, Start Num: 28
Candidate Starts for Julie_2:
(25, 310), (Start: 28 @328 has 24 MA's), (32, 355), (47, 433), (55, 460), (58, 469), (76, 580), (82, 616),

Gene: KendraB23_1 Start: 97, Stop: 435, Start Num: 28
Candidate Starts for KendraB23_1:
(Start: 28 @97 has 24 MA's), (48, 214), (49, 217), (68, 298), (77, 352), (91, 424),

Gene: Kepler_1 Start: 99, Stop: 431, Start Num: 28
Candidate Starts for Kepler_1:
(10, 21), (Start: 28 @99 has 24 MA's), (39, 159), (41, 174), (57, 240), (60, 249), (68, 294), (73, 327), (77, 348), (81, 375), (86, 396), (90, 417), (91, 420),

Gene: Kihatsu_3 Start: 685, Stop: 1026, Start Num: 28
Candidate Starts for Kihatsu_3:
(2, 502), (Start: 28 @685 has 24 MA's), (30, 700), (44, 778), (50, 805), (55, 820),

Gene: Kuleana_1 Start: 97, Stop: 444, Start Num: 28
Candidate Starts for Kuleana_1:
(8, 1), (15, 28), (17, 40), (19, 46), (Start: 21 @55 has 1 MA's), (Start: 28 @97 has 24 MA's), (38, 157), (44, 190), (46, 202), (55, 238), (61, 259), (63, 268), (66, 289), (67, 298), (71, 313), (76, 352), (80, 382), (81, 385), (85, 403), (88, 421),

Gene: LittleTokyo_1 Start: 92, Stop: 430, Start Num: 28

Candidate Starts for LittleTokyo_1:
(Start: 28 @92 has 24 MA's), (37, 146), (46, 197), (59, 242), (64, 263), (69, 296), (77, 344), (83, 380), (88, 407),

Gene: Lunar_2 Start: 264, Stop: 596, Start Num: 28
Candidate Starts for Lunar_2:
(Start: 28 @264 has 24 MA's), (39, 324), (40, 327), (41, 339), (57, 405), (60, 414), (68, 459), (73, 492), (77, 513), (81, 540), (86, 561), (90, 582), (91, 585),

Gene: MargaretKali_71 Start: 38297, Stop: 38623, Start Num: 29
Candidate Starts for MargaretKali_71:
(5, 38168), (9, 38195), (22, 38252), (Start: 29 @38297 has 1 MA's), (78, 38546),

Gene: Melons_2 Start: 264, Stop: 596, Start Num: 28
Candidate Starts for Melons_2:
(Start: 28 @264 has 24 MA's), (39, 324), (40, 327), (41, 339), (57, 405), (60, 414), (68, 459), (73, 492), (77, 513), (81, 540), (86, 561), (90, 582), (91, 585),

Gene: Orcanus_1 Start: 97, Stop: 435, Start Num: 28
Candidate Starts for Orcanus_1:
(19, 46), (Start: 28 @97 has 24 MA's), (48, 214), (49, 217), (68, 298), (77, 352), (91, 424),

Gene: Pelletreau_1 Start: 97, Stop: 435, Start Num: 28
Candidate Starts for Pelletreau_1:
(Start: 28 @97 has 24 MA's), (48, 214), (49, 217), (68, 298), (77, 352), (91, 424),

Gene: Piku_21 Start: 15071, Stop: 15454, Start Num: 24
Candidate Starts for Piku_21:
(Start: 21 @15056 has 1 MA's), (Start: 24 @15071 has 2 MA's), (34, 15128), (50, 15215), (56, 15224),

Gene: Polka_1 Start: 100, Stop: 432, Start Num: 28
Candidate Starts for Polka_1:
(11, 28), (18, 55), (Start: 28 @100 has 24 MA's), (39, 160), (41, 175), (57, 241), (60, 250), (68, 295), (73, 328), (77, 349), (81, 376), (86, 397), (90, 418), (91, 421),

Gene: PrairieDogTown_1 Start: 71, Stop: 409, Start Num: 28
Candidate Starts for PrairieDogTown_1:
(Start: 28 @71 has 24 MA's), (85, 368), (87, 374),

Gene: QuinnAvery_2 Start: 377, Stop: 667, Start Num: 36
Candidate Starts for QuinnAvery_2:
(6, 206), (26, 314), (Start: 36 @377 has 1 MA's), (37, 383), (39, 389), (42, 410), (55, 461), (73, 557), (75, 563), (79, 590), (81, 605), (86, 626),

Gene: Ryan_2 Start: 306, Stop: 668, Start Num: 23
Candidate Starts for Ryan_2:
(Start: 23 @306 has 1 MA's), (37, 378), (49, 441), (76, 567), (77, 573), (81, 603), (87, 627),

Gene: TaylorSipht_1 Start: 118, Stop: 459, Start Num: 28
Candidate Starts for TaylorSipht_1:
(Start: 28 @118 has 24 MA's), (41, 196), (49, 238), (53, 253), (56, 262), (68, 319), (73, 355), (91, 448),

Gene: Toad24_1 Start: 97, Stop: 435, Start Num: 28

Candidate Starts for Toad24_1:
(Start: 28 @97 has 24 MA's), (48, 214), (49, 217), (68, 298), (77, 352), (91, 424),

Gene: Utopia_22 Start: 14585, Stop: 14977, Start Num: 21
Candidate Starts for Utopia_22:
(1, 14435), (3, 14462), (4, 14498), (Start: 21 @14585 has 1 MA's), (50, 14744), (56, 14753), (73, 14852), (85, 14918),

Gene: Westrich_1 Start: 97, Stop: 435, Start Num: 28
Candidate Starts for Westrich_1:
(Start: 28 @97 has 24 MA's), (48, 214), (49, 217), (68, 298), (77, 352), (91, 424),

Gene: Whytu_21 Start: 14626, Stop: 15018, Start Num: 21
Candidate Starts for Whytu_21:
(3, 14506), (7, 14569), (12, 14590), (Start: 21 @14626 has 1 MA's), (Start: 24 @14641 has 2 MA's), (50, 14785), (56, 14794),

Gene: Yavru_21 Start: 14451, Stop: 14828, Start Num: 24
Candidate Starts for Yavru_21:
(Start: 21 @14436 has 1 MA's), (Start: 24 @14451 has 2 MA's), (50, 14595), (56, 14604),

Gene: Zhuangyuan_2 Start: 439, Stop: 780, Start Num: 28
Candidate Starts for Zhuangyuan_2:
(17, 382), (Start: 28 @439 has 24 MA's), (30, 454), (34, 469), (39, 499), (47, 544), (75, 685), (76, 694), (86, 748),

Gene: Zhuangyuan_1 Start: 92, Stop: 430, Start Num: 28
Candidate Starts for Zhuangyuan_1:
(Start: 28 @92 has 24 MA's), (33, 119), (37, 146), (46, 197), (59, 242), (62, 257), (63, 260), (65, 278), (71, 305), (77, 344), (81, 371), (83, 380), (87, 395), (88, 407), (89, 413),

Gene: Zucker_1 Start: 39, Stop: 374, Start Num: 28
Candidate Starts for Zucker_1:
(Start: 28 @39 has 24 MA's), (37, 96), (48, 156), (58, 177), (70, 237), (82, 318), (87, 339),