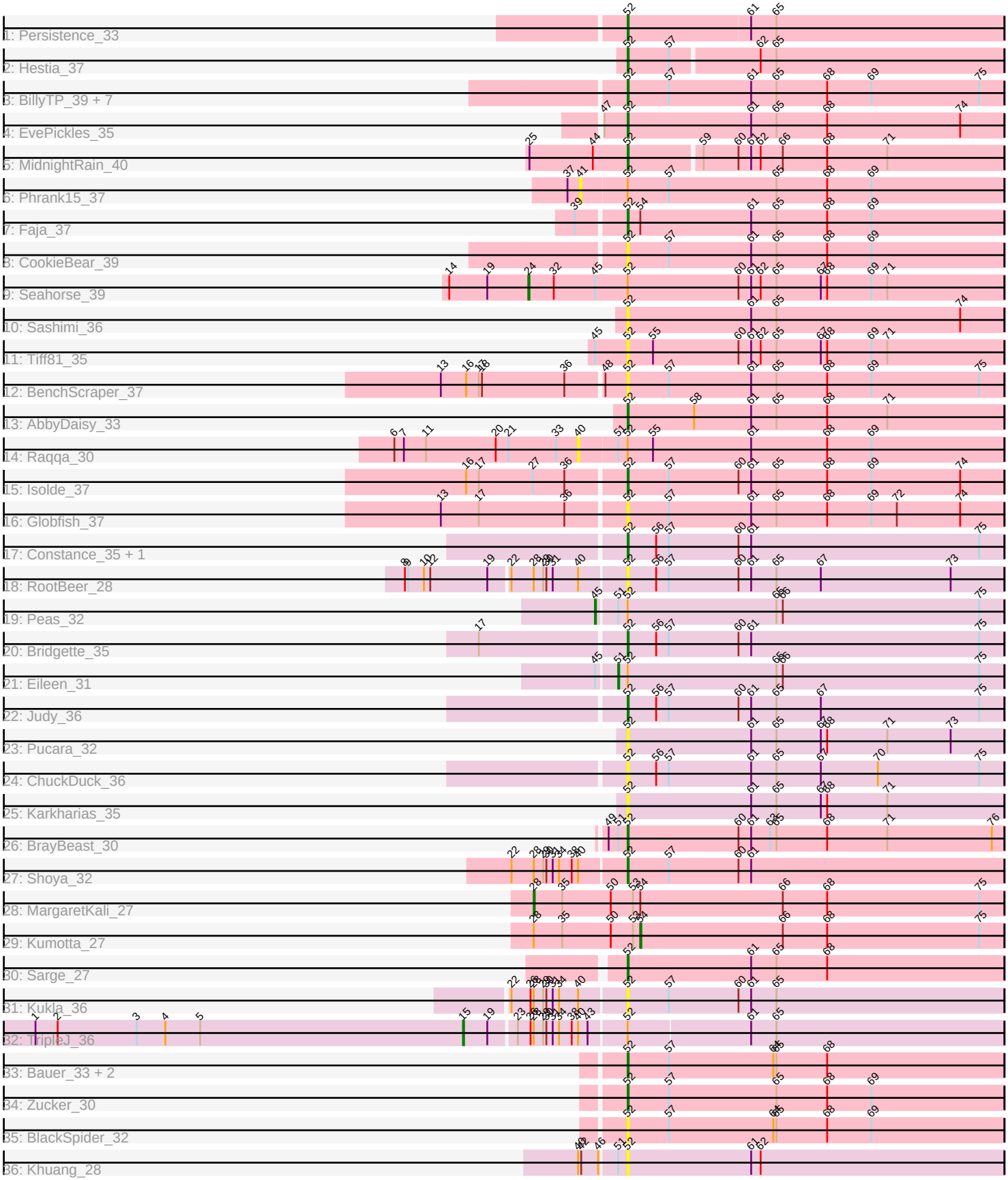
Pham 86243


1: Persistence_33
2: Hestia_37
3: BillyTP_39 + 7
4: EvePickles_35
5: MidnightRain_40
6: Phrank15_37
7: Faja_37
8: CookieBear_39
9: Seahorse_39
10: Sashimi_36
11: Tiff81_35
12: BenchScraper_37
13: AbbyDaisy_33
14: Raqqa_30
15: Isolde_37
16: Globfish_37
17: Constance_35 + 1
18: RootBeer_28
19: Peas_32
20: Bridgette_35
21: Eileen_31
22: Judy_36
23: Pucara_32
24: ChuckDuck_36
25: Karkharias_35
26: BrayBeast_30
27: Shoya_32
28: MargaretKali_27
29: Kumotta_27
30: Sarge_27
31: Kukla_36
32: TripleJ_36
33: Bauer_33 + 2
34: Zucker_30
35: BlackSpider_32
36: Khuang_28

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 86243 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86243 has 46 members, 19 are drafts.

Phages represented in each track:
• Track 1 : Persistence_33
• Track 2 : Hestia_37
• Track 3 : BillyTP_39, Raphaella_39, Richie_38, Sakai_38, Auxilium_36, Gorpy_39, Aikyam_35, YoungHarleezy_38
• Track 4 : EvePickles_35
• Track 5 : MidnightRain_40
• Track 6 : Phrank15_37
• Track 7 : Faja_37
• Track 8 : CookieBear_39
• Track 9 : Seahorse_39
• Track 10 : Sashimi_36
• Track 11 : Tiff81_35
• Track 12 : BenchScraper_37
• Track 13 : AbbyDaisy_33
• Track 14 : Raqqa_30
• Track 15 : Isolde_37
• Track 16 : Globfish_37
• Track 17 : Constance_35, GlobiWarming_36
• Track 18 : RootBeer_28
• Track 19 : Peas_32
• Track 20 : Bridgette_35
• Track 21 : Eileen_31
• Track 22 : Judy_36
• Track 23 : Pucara_32
• Track 24 : ChuckDuck_36
• Track 25 : Karkharias_35
• Track 26 : BrayBeast_30
• Track 27 : Shoya_32
• Track 28 : MargaretKali_27
• Track 29 : Kumotta_27
• Track 30 : Sarge_27
• Track 31 : Kukla_36
• Track 32 : TripleJ_36
• Track 33 : Bauer_33, Hillester_37, RadFad_37
• Track 34 : Zucker_30
• Track 35 : BlackSpider_32
• Track 36 : Khuang_28

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

The start number called the most often in the published annotations is 52, it was called in 21 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AbbyDaisy_33, Aikyam_35, Auxilium_36, Bauer_33, BenchScraper_37, BillyTP_39, BlackSpider_32, BrayBeast_30, Bridgette_35, ChuckDuck_36, Constance_35, CookieBear_39, EvePickles_35, Faja_37, Globfish_37, GlobiWarming_36, Gorpy_39, Hestia_37, Hillester_37, Isolde_37, Judy_36, Karkharias_35, Khuang_28, Kukla_36, MidnightRain_40, Persistence_33, Pucara_32, RadFad_37, Raphaella_39, Richie_38, RootBeer_28, Sakai_38, Sarge_27, Sashimi_36, Shoya_32, Tiff81_35, YoungHarleezy_38, Zucker_30,

Genes that have the "Most Annotated" start but do not call it:
• Eileen_31, Peas_32, Phrank15_37, Raqqa_30, Seahorse_39, TripleJ_36,

Genes that do not have the "Most Annotated" start:
• Kumotta_27, MargaretKali_27,

Summary by start number:

Start 15:
• Found in 1 of 46 (2.2%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TripleJ_36 (FJ),

Start 24:
• Found in 1 of 46 (2.2%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Seahorse_39 (AY),

Start 28:
• Found in 6 of 46 (13.0%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 16.7% of time when present
• Phage (with cluster) where this start called: MargaretKali_27 (FB),

Start 40:
• Found in 6 of 46 (13.0%) of genes in pham
• No Manual Annotations of this start.
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Raqqa_30 (AY),

Start 41:
• Found in 1 of 46 (2.2%) of genes in pham
• No Manual Annotations of this start.

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phrank15_37 (AY),

Start 45:
• Found in 4 of 46 (8.7%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Peas_32 (FA),

Start 51:
• Found in 5 of 46 (10.9%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Eileen_31 (FA),

Start 52:
• Found in 44 of 46 (95.7%) of genes in pham
• Manual Annotations of this start: 21 of 27
• Called 86.4% of time when present
• Phage (with cluster) where this start called: AbbyDaisy_33 (AY), Aikyam_35 (AY), Auxilium_36 (AY), Bauer_33 (FN), BenchScraper_37 (AY), BillyTP_39 (AY), BlackSpider_32 (FN), BrayBeast_30 (FB), Bridgette_35 (FA), ChuckDuck_36 (FA), Constance_35 (FA), CookieBear_39 (AY), EvePickles_35 (AY), Faja_37 (AY), Globfish_37 (AY), GlobiWarming_36 (FA), Gorpy_39 (AY), Hestia_37 (AY), Hillester_37 (AY), Isolde_37 (AY), Judy_36 (FA), Karkharias_35 (FA), Khuang_28 (UNK), Kukla_36 (FJ), MidnightRain_40 (AY), Persistence_33 (AY), Pucara_32 (FA), RadFad_37 (AY), Raphaella_39 (AY), Richie_38 (AY), RootBeer_28 (FA), Sakai_38 (AY), Sarge_27 (FB), Sashimi_36 (AY), Shoya_32 (FB), Tiff81_35 (AY), YoungHarleezy_38 (AY), Zucker_30 (FN),

Start 54:
• Found in 3 of 46 (6.5%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Kumotta_27 (FB),

Summary by clusters:

There are 6 clusters represented in this pham: FA, FB, AY, FJ, UNK, FN,

Info for manual annotations of cluster AY:
•Start number 24 was manually annotated 1 time for cluster AY.
•Start number 52 was manually annotated 12 times for cluster AY.

Info for manual annotations of cluster FA:
•Start number 45 was manually annotated 1 time for cluster FA.
•Start number 51 was manually annotated 1 time for cluster FA.
•Start number 52 was manually annotated 4 times for cluster FA.

Info for manual annotations of cluster FB:
•Start number 28 was manually annotated 1 time for cluster FB.
•Start number 52 was manually annotated 3 times for cluster FB.
•Start number 54 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FJ:
•Start number 15 was manually annotated 1 time for cluster FJ.

Info for manual annotations of cluster FN:
•Start number 52 was manually annotated 2 times for cluster FN.

Gene Information:

Gene: AbbyDaisy_33 Start: 25439, Stop: 25795, Start Num: 52
Candidate Starts for AbbyDaisy_33:
(Start: 52 @25439 has 21 MA's), (58, 25502), (61, 25556), (65, 25580), (68, 25628), (71, 25685),

Gene: Aikyam_35 Start: 23855, Stop: 24211, Start Num: 52
Candidate Starts for Aikyam_35:
(Start: 52 @23855 has 21 MA's), (57, 23894), (61, 23972), (65, 23996), (68, 24044), (69, 24086), (75, 24188),

Gene: Auxilium_36 Start: 23557, Stop: 23913, Start Num: 52
Candidate Starts for Auxilium_36:
(Start: 52 @23557 has 21 MA's), (57, 23596), (61, 23674), (65, 23698), (68, 23746), (69, 23788), (75, 23890),

Gene: Bauer_33 Start: 25076, Stop: 25432, Start Num: 52
Candidate Starts for Bauer_33:
(Start: 52 @25076 has 21 MA's), (57, 25115), (64, 25214), (65, 25217), (68, 25265),

Gene: BenchScraper_37 Start: 25515, Stop: 25871, Start Num: 52
Candidate Starts for BenchScraper_37:
(13, 25344), (16, 25368), (17, 25380), (18, 25383), (36, 25461), (48, 25494), (Start: 52 @25515 has 21 MA's), (57, 25554), (61, 25632), (65, 25656), (68, 25704), (69, 25746), (75, 25848),

Gene: BillyTP_39 Start: 26753, Stop: 27109, Start Num: 52
Candidate Starts for BillyTP_39:
(Start: 52 @26753 has 21 MA's), (57, 26792), (61, 26870), (65, 26894), (68, 26942), (69, 26984), (75, 27086),

Gene: BlackSpider_32 Start: 24964, Stop: 25320, Start Num: 52
Candidate Starts for BlackSpider_32:
(Start: 52 @24964 has 21 MA's), (57, 25003), (64, 25102), (65, 25105), (68, 25153), (69, 25195),

Gene: BrayBeast_30 Start: 22742, Stop: 23098, Start Num: 52
Candidate Starts for BrayBeast_30:
(49, 22724), (Start: 51 @22733 has 1 MA's), (Start: 52 @22742 has 21 MA's), (60, 22847), (61, 22859), (63, 22877), (65, 22883), (68, 22931), (71, 22988), (76, 23087),

Gene: Bridgette_35 Start: 25558, Stop: 25914, Start Num: 52
Candidate Starts for Bridgette_35:
(17, 25423), (Start: 52 @25558 has 21 MA's), (56, 25585), (57, 25597), (60, 25663), (61, 25675), (75, 25891),

Gene: ChuckDuck_36 Start: 25325, Stop: 25681, Start Num: 52
Candidate Starts for ChuckDuck_36:
(Start: 52 @25325 has 21 MA's), (56, 25352), (57, 25364), (61, 25442), (65, 25466), (67, 25508), (70, 25562), (75, 25658),

Gene: Constance_35 Start: 25797, Stop: 26153, Start Num: 52
Candidate Starts for Constance_35:
(Start: 52 @25797 has 21 MA's), (56, 25824), (57, 25836), (60, 25902), (61, 25914), (75, 26130),

Gene: CookieBear_39 Start: 26017, Stop: 26373, Start Num: 52
Candidate Starts for CookieBear_39:
(Start: 52 @26017 has 21 MA's), (57, 26056), (61, 26134), (65, 26158), (68, 26206), (69, 26248),

Gene: Eileen_31 Start: 23758, Stop: 24123, Start Num: 51
Candidate Starts for Eileen_31:
(Start: 45 @23740 has 1 MA's), (Start: 51 @23758 has 1 MA's), (Start: 52 @23767 has 21 MA's), (65, 23908), (66, 23914), (75, 24100),

Gene: EvePickles_35 Start: 26683, Stop: 27039, Start Num: 52
Candidate Starts for EvePickles_35:
(47, 26662), (Start: 52 @26683 has 21 MA's), (61, 26800), (65, 26824), (68, 26872), (74, 26998),

Gene: Faja_37 Start: 27291, Stop: 27647, Start Num: 52
Candidate Starts for Faja_37:
(39, 27249), (Start: 52 @27291 has 21 MA's), (Start: 54 @27303 has 1 MA's), (61, 27408), (65, 27432), (68, 27480), (69, 27522),

Gene: Globfish_37 Start: 25740, Stop: 26096, Start Num: 52
Candidate Starts for Globfish_37:
(13, 25569), (17, 25605), (36, 25686), (Start: 52 @25740 has 21 MA's), (57, 25779), (61, 25857), (65, 25881), (68, 25929), (69, 25971), (72, 25995), (74, 26055),

Gene: GlobiWarming_36 Start: 25241, Stop: 25597, Start Num: 52
Candidate Starts for GlobiWarming_36:
(Start: 52 @25241 has 21 MA's), (56, 25268), (57, 25280), (60, 25346), (61, 25358), (75, 25574),

Gene: Gorpy_39 Start: 27249, Stop: 27605, Start Num: 52
Candidate Starts for Gorpy_39:
(Start: 52 @27249 has 21 MA's), (57, 27288), (61, 27366), (65, 27390), (68, 27438), (69, 27480), (75, 27582),

Gene: Hestia_37 Start: 25541, Stop: 25891, Start Num: 52
Candidate Starts for Hestia_37:
(Start: 52 @25541 has 21 MA's), (57, 25580), (62, 25661), (65, 25676),

Gene: Hillester_37 Start: 25503, Stop: 25859, Start Num: 52
Candidate Starts for Hillester_37:
(Start: 52 @25503 has 21 MA's), (57, 25542), (64, 25641), (65, 25644), (68, 25692),

Gene: Isolde_37 Start: 25269, Stop: 25625, Start Num: 52
Candidate Starts for Isolde_37:

(16, 25122), (17, 25134), (27, 25185), (36, 25215), (Start: 52 @25269 has 21 MA's), (57, 25308), (60, 25374), (61, 25386), (65, 25410), (68, 25458), (69, 25500), (74, 25584),

Gene: Judy_36 Start: 25808, Stop: 26164, Start Num: 52
Candidate Starts for Judy_36:
(Start: 52 @25808 has 21 MA's), (56, 25835), (57, 25847), (60, 25913), (61, 25925), (65, 25949), (67, 25991), (75, 26141),

Gene: Karkharias_35 Start: 25457, Stop: 25813, Start Num: 52
Candidate Starts for Karkharias_35:
(Start: 52 @25457 has 21 MA's), (61, 25574), (65, 25598), (67, 25640), (68, 25646), (71, 25703),

Gene: Khuang_28 Start: 22101, Stop: 22457, Start Num: 52
Candidate Starts for Khuang_28:
(40, 22059), (42, 22062), (46, 22077), (Start: 51 @22092 has 1 MA's), (Start: 52 @22101 has 21 MA's), (61, 22218), (62, 22227),

Gene: Kukla_36 Start: 26573, Stop: 26929, Start Num: 52
Candidate Starts for Kukla_36:
(22, 26468), (26, 26486), (Start: 28 @26489 has 1 MA's), (29, 26498), (30, 26501), (31, 26507), (34, 26513), (40, 26531), (Start: 52 @26573 has 21 MA's), (57, 26612), (60, 26678), (61, 26690), (65, 26714),

Gene: Kumotta_27 Start: 22462, Stop: 22806, Start Num: 54
Candidate Starts for Kumotta_27:
(Start: 28 @22363 has 1 MA's), (35, 22390), (50, 22435), (53, 22456), (Start: 54 @22462 has 1 MA's), (66, 22597), (68, 22639), (75, 22783),

Gene: MargaretKali_27 Start: 21998, Stop: 22441, Start Num: 28
Candidate Starts for MargaretKali_27:
(Start: 28 @21998 has 1 MA's), (35, 22025), (50, 22070), (53, 22091), (Start: 54 @22097 has 1 MA's), (66, 22232), (68, 22274), (75, 22418),

Gene: MidnightRain_40 Start: 26819, Stop: 27169, Start Num: 52
Candidate Starts for MidnightRain_40:
(25, 26726), (44, 26786), (Start: 52 @26819 has 21 MA's), (59, 26885), (60, 26918), (61, 26930), (62, 26939), (66, 26960), (68, 27002), (71, 27059),

Gene: Peas_32 Start: 25888, Stop: 26271, Start Num: 45
Candidate Starts for Peas_32:
(Start: 45 @25888 has 1 MA's), (Start: 51 @25906 has 1 MA's), (Start: 52 @25915 has 21 MA's), (65, 26056), (66, 26062), (75, 26248),

Gene: Persistence_33 Start: 24151, Stop: 24504, Start Num: 52
Candidate Starts for Persistence_33:
(Start: 52 @24151 has 21 MA's), (61, 24265), (65, 24289),

Gene: Phrank15_37 Start: 24822, Stop: 25220, Start Num: 41
Candidate Starts for Phrank15_37:
(37, 24810), (41, 24822), (Start: 52 @24864 has 21 MA's), (57, 24903), (65, 25005), (68, 25053), (69, 25095),

Gene: Pucara_32 Start: 25297, Stop: 25653, Start Num: 52

Candidate Starts for Pucara_32:
(Start: 52 @25297 has 21 MA's), (61, 25414), (65, 25438), (67, 25480), (68, 25486), (71, 25543), (73, 25603),

Gene: RadFad_37 Start: 25503, Stop: 25859, Start Num: 52
Candidate Starts for RadFad_37:
(Start: 52 @25503 has 21 MA's), (57, 25542), (64, 25641), (65, 25644), (68, 25692),

Gene: Raphaella_39 Start: 25951, Stop: 26307, Start Num: 52
Candidate Starts for Raphaella_39:
(Start: 52 @25951 has 21 MA's), (57, 25990), (61, 26068), (65, 26092), (68, 26140), (69, 26182), (75, 26284),

Gene: Raqqa_30 Start: 23000, Stop: 23401, Start Num: 40
Candidate Starts for Raqqa_30:
(6, 22826), (7, 22835), (11, 22856), (20, 22922), (21, 22934), (33, 22979), (40, 23000), (Start: 51 @23036 has 1 MA's), (Start: 52 @23045 has 21 MA's), (55, 23069), (61, 23162), (68, 23234), (69, 23276),

Gene: Richie_38 Start: 26032, Stop: 26388, Start Num: 52
Candidate Starts for Richie_38:
(Start: 52 @26032 has 21 MA's), (57, 26071), (61, 26149), (65, 26173), (68, 26221), (69, 26263), (75, 26365),

Gene: RootBeer_28 Start: 22119, Stop: 22475, Start Num: 52
Candidate Starts for RootBeer_28:
(8, 21918), (9, 21921), (10, 21936), (12, 21942), (19, 21996), (22, 22014), (Start: 28 @22035 has 1 MA's), (29, 22044), (30, 22047), (31, 22053), (40, 22077), (Start: 52 @22119 has 21 MA's), (56, 22146), (57, 22158), (60, 22224), (61, 22236), (65, 22260), (67, 22302), (73, 22425),

Gene: Sakai_38 Start: 25960, Stop: 26316, Start Num: 52
Candidate Starts for Sakai_38:
(Start: 52 @25960 has 21 MA's), (57, 25999), (61, 26077), (65, 26101), (68, 26149), (69, 26191), (75, 26293),

Gene: Sarge_27 Start: 20690, Stop: 21046, Start Num: 52
Candidate Starts for Sarge_27:
(Start: 52 @20690 has 21 MA's), (61, 20807), (65, 20831), (68, 20879),

Gene: Sashimi_36 Start: 26820, Stop: 27176, Start Num: 52
Candidate Starts for Sashimi_36:
(Start: 52 @26820 has 21 MA's), (61, 26937), (65, 26961), (74, 27135),

Gene: Seahorse_39 Start: 27369, Stop: 27818, Start Num: 24
Candidate Starts for Seahorse_39:
(14, 27294), (19, 27330), (Start: 24 @27369 has 1 MA's), (32, 27393), (Start: 45 @27432 has 1 MA's), (Start: 52 @27462 has 21 MA's), (60, 27567), (61, 27579), (62, 27588), (65, 27603), (67, 27645), (68, 27651), (69, 27693), (71, 27708),

Gene: Shoya_32 Start: 22698, Stop: 23054, Start Num: 52
Candidate Starts for Shoya_32:
(22, 22593), (Start: 28 @22614 has 1 MA's), (29, 22623), (30, 22626), (31, 22632), (34, 22638), (38, 22650), (40, 22656), (Start: 52 @22698 has 21 MA's), (57, 22737), (60, 22803), (61, 22815),

Gene: Tiff81_35 Start: 23054, Stop: 23410, Start Num: 52
Candidate Starts for Tiff81_35:
(Start: 45 @23024 has 1 MA's), (Start: 52 @23054 has 21 MA's), (55, 23078), (60, 23159), (61, 23171), (62, 23180), (65, 23195), (67, 23237), (68, 23243), (69, 23285), (71, 23300),

Gene: TripleJ_36 Start: 26273, Stop: 26770, Start Num: 15
Candidate Starts for TripleJ_36:
(1, 25868), (2, 25889), (3, 25964), (4, 25991), (5, 26024), (Start: 15 @26273 has 1 MA's), (19, 26294), (23, 26318), (26, 26330), (Start: 28 @26333 has 1 MA's), (29, 26342), (30, 26345), (31, 26351), (34, 26357), (38, 26369), (40, 26375), (43, 26384), (Start: 52 @26417 has 21 MA's), (61, 26531), (65, 26555),

Gene: YoungHarleezy_38 Start: 26030, Stop: 26386, Start Num: 52
Candidate Starts for YoungHarleezy_38:
(Start: 52 @26030 has 21 MA's), (57, 26069), (61, 26147), (65, 26171), (68, 26219), (69, 26261), (75, 26363),

Gene: Zucker_30 Start: 24815, Stop: 25171, Start Num: 52
Candidate Starts for Zucker_30:
(Start: 52 @24815 has 21 MA's), (57, 24854), (65, 24956), (68, 25004), (69, 25046),