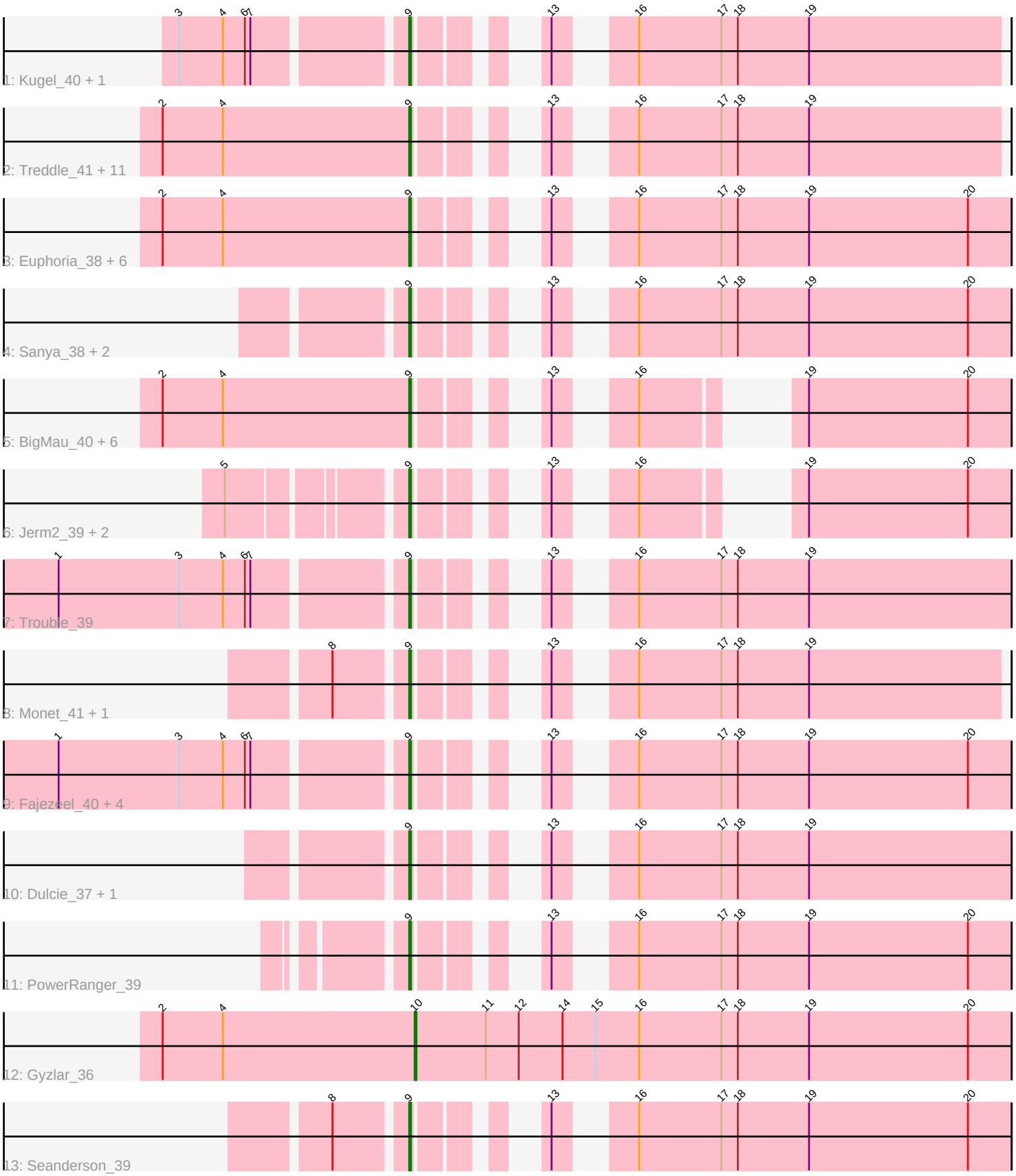
Pham 347748


1: Kugel_40 + 1
2: Treddle_41 + 11
3: Euphoria_38 + 6
4: Sanya_38 + 2
5: BigMau_40 + 6
6: Jerm2_39 + 2
7: Trouble_39
8: Monet_41 + 1
9: Fajezeel_40 + 4
10: Dulcie_37 + 1
11: PowerRanger_39
12: Gyzlar_36
13: Seanderson_39

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 347748 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347748 has 47 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Kugel_40, Scowl_38
• Track 2 : Treddle_41, Whitspit_37, BeesKnees_39, Petruchio_39, Bigchungi_38, Edtherson_40, Zephyr_39, DreamCatcher_41, PinkPlastic_37, Mule_37, Aeneas_41, Seabiscuit_40
• Track 3 : Euphoria_38, Marcell_38, SpikeBT_40, BillKnuckles_39, Pari_39, GageAP_40, U2_38
• Track 4 : Sanya_38, Ciao_38, Pippin_40
• Track 5 : BigMau_40, Burton_39, Museum_40, Molly_40, Petp2012_40, TwoPeat_39, Bob3_37
• Track 6 : Jerm2_39, HermioneGrange_38, Rohr_39
• Track 7 : Trouble_39
• Track 8 : Monet_41, Pepe_34
• Track 9 : Fajezeel_40, Acme_41, Greg_40, JC27_39, Ashballer_40
• Track 10 : Dulcie_37, Rutherferd_40
• Track 11 : PowerRanger_39
• Track 12 : Gyzlar_36
• Track 13 : Seanderson_39

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

The start number called the most often in the published annotations is 9, it was called in 45 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acme_41, Aeneas_41, Ashballer_40, BeesKnees_39, BigMau_40, Bigchungi_38, BillKnuckles_39, Bob3_37, Burton_39, Ciao_38, DreamCatcher_41, Dulcie_37, Edtherson_40, Euphoria_38, Fajezeel_40, GageAP_40, Greg_40, HermioneGrange_38, JC27_39, Jerm2_39, Kugel_40, Marcell_38, Molly_40, Monet_41, Mule_37, Museum_40, Pari_39, Pepe_34, Petp2012_40, Petruchio_39, PinkPlastic_37, Pippin_40, PowerRanger_39, Rohr_39, Rutherferd_40, Sanya_38, Scowl_38, Seabiscuit_40, Seanderson_39, SpikeBT_40, Treddle_41, Trouble_39, TwoPeat_39, U2_38, Whitspit_37, Zephyr_39,

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

•

Genes that do not have the "Most Annotated" start:
• Gyzlar_36,

Summary by start number:

Start 9:
• Found in 46 of 47 (97.9%) of genes in pham
• Manual Annotations of this start: 45 of 46
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acme_41 (A1), Aeneas_41 (A1), Ashballer_40 (A1), BeesKnees_39 (A1), BigMau_40 (A1), Bigchungi_38 (A1), BillKnuckles_39 (A1), Bob3_37 (A1), Burton_39 (A1), Ciao_38 (A1), DreamCatcher_41 (A1), Dulcie_37 (A1), Edtherson_40 (A1), Euphoria_38 (A1), Fajezeel_40 (A1), GageAP_40 (A1), Greg_40 (A1), HermioneGrange_38 (A1), JC27_39 (A1), Jerm2_39 (A1), Kugel_40 (A1), Marcell_38 (A1), Molly_40 (A1), Monet_41 (A1), Mule_37 (A1), Museum_40 (A1), Pari_39 (A1), Pepe_34 (A1), Petp2012_40 (A1), Petruchio_39 (A1), PinkPlastic_37 (A1), Pippin_40 (A1), PowerRanger_39 (A1), Rohr_39 (A1), Rutherferd_40 (A1), Sanya_38 (A1), Scowl_38 (A1), Seabiscuit_40 (A1), Seanderson_39 (A1), SpikeBT_40 (A1), Treddle_41 (A1), Trouble_39 (A1), TwoPeat_39 (A1), U2_38 (A1), Whitspit_37 (A1), Zephyr_39 (A1),

Start 10:
• Found in 1 of 47 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 46
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gyzlar_36 (A1),

Summary by clusters:

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:
•Start number 9 was manually annotated 45 times for cluster A1.
•Start number 10 was manually annotated 1 time for cluster A1.

Gene Information:

Gene: Acme_41 Start: 31739, Stop: 31467, Start Num: 9
Candidate Starts for Acme_41:
(1, 31919), (3, 31853), (4, 31829), (6, 31817), (7, 31814), (Start: 9 @31739 has 45 MA's), (13, 31697), (16, 31670), (17, 31625), (18, 31616), (19, 31577), (20, 31490),

Gene: Aeneas_41 Start: 31799, Stop: 31530, Start Num: 9
Candidate Starts for Aeneas_41:
(2, 31934), (4, 31901), (Start: 9 @31799 has 45 MA's), (13, 31760), (16, 31733), (17, 31688), (18, 31679), (19, 31640),

Gene: Ashballer_40 Start: 32195, Stop: 31923, Start Num: 9
Candidate Starts for Ashballer_40:

(1, 32375), (3, 32309), (4, 32285), (6, 32273), (7, 32270), (Start: 9 @32195 has 45 MA's), (13, 32153), (16, 32126), (17, 32081), (18, 32072), (19, 32033), (20, 31946),

Gene: BeesKnees_39 Start: 31359, Stop: 31087, Start Num: 9
Candidate Starts for BeesKnees_39:
(2, 31494), (4, 31461), (Start: 9 @31359 has 45 MA's), (13, 31317), (16, 31290), (17, 31245), (18, 31236), (19, 31197),

Gene: BigMau_40 Start: 31436, Stop: 31206, Start Num: 9
Candidate Starts for BigMau_40:
(2, 31571), (4, 31538), (Start: 9 @31436 has 45 MA's), (13, 31394), (16, 31367), (19, 31316), (20, 31229),

Gene: Bigchungi_38 Start: 31052, Stop: 30780, Start Num: 9
Candidate Starts for Bigchungi_38:
(2, 31187), (4, 31154), (Start: 9 @31052 has 45 MA's), (13, 31010), (16, 30983), (17, 30938), (18, 30929), (19, 30890),

Gene: BillKnuckles_39 Start: 32162, Stop: 31890, Start Num: 9
Candidate Starts for BillKnuckles_39:
(2, 32297), (4, 32264), (Start: 9 @32162 has 45 MA's), (13, 32120), (16, 32093), (17, 32048), (18, 32039), (19, 32000), (20, 31913),

Gene: Bob3_37 Start: 30786, Stop: 30556, Start Num: 9
Candidate Starts for Bob3_37:
(2, 30921), (4, 30888), (Start: 9 @30786 has 45 MA's), (13, 30744), (16, 30717), (19, 30666), (20, 30579),

Gene: Burton_39 Start: 31356, Stop: 31126, Start Num: 9
Candidate Starts for Burton_39:
(2, 31491), (4, 31458), (Start: 9 @31356 has 45 MA's), (13, 31314), (16, 31287), (19, 31236), (20, 31149),

Gene: Ciao_38 Start: 31210, Stop: 30938, Start Num: 9
Candidate Starts for Ciao_38:
(Start: 9 @31210 has 45 MA's), (13, 31168), (16, 31141), (17, 31096), (18, 31087), (19, 31048), (20, 30961),

Gene: DreamCatcher_41 Start: 32660, Stop: 32388, Start Num: 9
Candidate Starts for DreamCatcher_41:
(2, 32795), (4, 32762), (Start: 9 @32660 has 45 MA's), (13, 32618), (16, 32591), (17, 32546), (18, 32537), (19, 32498),

Gene: Dulcie_37 Start: 30943, Stop: 30671, Start Num: 9
Candidate Starts for Dulcie_37:
(Start: 9 @30943 has 45 MA's), (13, 30901), (16, 30874), (17, 30829), (18, 30820), (19, 30781),

Gene: Edtherson_40 Start: 32538, Stop: 32272, Start Num: 9
Candidate Starts for Edtherson_40:
(2, 32673), (4, 32640), (Start: 9 @32538 has 45 MA's), (13, 32496), (16, 32469), (17, 32424), (18, 32415), (19, 32376),

Gene: Euphoria_38 Start: 31379, Stop: 31107, Start Num: 9

Candidate Starts for Euphoria_38:
(2, 31514), (4, 31481), (Start: 9 @31379 has 45 MA's), (13, 31337), (16, 31310), (17, 31265), (18, 31256), (19, 31217), (20, 31130),

Gene: Fajezeel_40 Start: 31568, Stop: 31296, Start Num: 9
Candidate Starts for Fajezeel_40:
(1, 31748), (3, 31682), (4, 31658), (6, 31646), (7, 31643), (Start: 9 @31568 has 45 MA's), (13, 31526), (16, 31499), (17, 31454), (18, 31445), (19, 31406), (20, 31319),

Gene: GageAP_40 Start: 31664, Stop: 31392, Start Num: 9
Candidate Starts for GageAP_40:
(2, 31799), (4, 31766), (Start: 9 @31664 has 45 MA's), (13, 31622), (16, 31595), (17, 31550), (18, 31541), (19, 31502), (20, 31415),

Gene: Greg_40 Start: 31568, Stop: 31296, Start Num: 9
Candidate Starts for Greg_40:
(1, 31748), (3, 31682), (4, 31658), (6, 31646), (7, 31643), (Start: 9 @31568 has 45 MA's), (13, 31526), (16, 31499), (17, 31454), (18, 31445), (19, 31406), (20, 31319),

Gene: Gyzlar_36 Start: 30052, Stop: 29726, Start Num: 10
Candidate Starts for Gyzlar_36:
(2, 30190), (4, 30157), (Start: 10 @30052 has 1 MA's), (11, 30013), (12, 29995), (14, 29971), (15, 29953), (16, 29929), (17, 29884), (18, 29875), (19, 29836), (20, 29749),

Gene: HermioneGrange_38 Start: 31174, Stop: 30944, Start Num: 9
Candidate Starts for HermioneGrange_38:
(5, 31258), (Start: 9 @31174 has 45 MA's), (13, 31132), (16, 31105), (19, 31054), (20, 30967),

Gene: JC27_39 Start: 31765, Stop: 31493, Start Num: 9
Candidate Starts for JC27_39:
(1, 31945), (3, 31879), (4, 31855), (6, 31843), (7, 31840), (Start: 9 @31765 has 45 MA's), (13, 31723), (16, 31696), (17, 31651), (18, 31642), (19, 31603), (20, 31516),

Gene: Jerm2_39 Start: 31429, Stop: 31199, Start Num: 9
Candidate Starts for Jerm2_39:
(5, 31513), (Start: 9 @31429 has 45 MA's), (13, 31387), (16, 31360), (19, 31309), (20, 31222),

Gene: Kugel_40 Start: 31983, Stop: 31717, Start Num: 9
Candidate Starts for Kugel_40:
(3, 32097), (4, 32073), (6, 32061), (7, 32058), (Start: 9 @31983 has 45 MA's), (13, 31941), (16, 31914), (17, 31869), (18, 31860), (19, 31821),

Gene: Marcell_38 Start: 31685, Stop: 31413, Start Num: 9
Candidate Starts for Marcell_38:
(2, 31820), (4, 31787), (Start: 9 @31685 has 45 MA's), (13, 31643), (16, 31616), (17, 31571), (18, 31562), (19, 31523), (20, 31436),

Gene: Molly_40 Start: 31229, Stop: 30999, Start Num: 9
Candidate Starts for Molly_40:
(2, 31364), (4, 31331), (Start: 9 @31229 has 45 MA's), (13, 31187), (16, 31160), (19, 31109), (20, 31022),

Gene: Monet_41 Start: 33055, Stop: 32789, Start Num: 9

Candidate Starts for Monet_41:
(8, 33091), (Start: 9 @33055 has 45 MA's), (13, 33013), (16, 32986), (17, 32941), (18, 32932), (19, 32893),

Gene: Mule_37 Start: 29541, Stop: 29269, Start Num: 9
Candidate Starts for Mule_37:
(2, 29676), (4, 29643), (Start: 9 @29541 has 45 MA's), (13, 29499), (16, 29472), (17, 29427), (18, 29418), (19, 29379),

Gene: Museum_40 Start: 31295, Stop: 31065, Start Num: 9
Candidate Starts for Museum_40:
(2, 31430), (4, 31397), (Start: 9 @31295 has 45 MA's), (13, 31253), (16, 31226), (19, 31175), (20, 31088),

Gene: Pari_39 Start: 31087, Stop: 30815, Start Num: 9
Candidate Starts for Pari_39:
(2, 31222), (4, 31189), (Start: 9 @31087 has 45 MA's), (13, 31045), (16, 31018), (17, 30973), (18, 30964), (19, 30925), (20, 30838),

Gene: Pepe_34 Start: 29170, Stop: 28904, Start Num: 9
Candidate Starts for Pepe_34:
(8, 29206), (Start: 9 @29170 has 45 MA's), (13, 29128), (16, 29101), (17, 29056), (18, 29047), (19, 29008),

Gene: Petp2012_40 Start: 32213, Stop: 31983, Start Num: 9
Candidate Starts for Petp2012_40:
(2, 32348), (4, 32315), (Start: 9 @32213 has 45 MA's), (13, 32171), (16, 32144), (19, 32093), (20, 32006),

Gene: Petruchio_39 Start: 31567, Stop: 31298, Start Num: 9
Candidate Starts for Petruchio_39:
(2, 31702), (4, 31669), (Start: 9 @31567 has 45 MA's), (13, 31528), (16, 31501), (17, 31456), (18, 31447), (19, 31408),

Gene: PinkPlastic_37 Start: 31097, Stop: 30825, Start Num: 9
Candidate Starts for PinkPlastic_37:
(2, 31232), (4, 31199), (Start: 9 @31097 has 45 MA's), (13, 31055), (16, 31028), (17, 30983), (18, 30974), (19, 30935),

Gene: Pippin_40 Start: 31627, Stop: 31355, Start Num: 9
Candidate Starts for Pippin_40:
(Start: 9 @31627 has 45 MA's), (13, 31585), (16, 31558), (17, 31513), (18, 31504), (19, 31465), (20, 31378),

Gene: PowerRanger_39 Start: 32378, Stop: 32106, Start Num: 9
Candidate Starts for PowerRanger_39:
(Start: 9 @32378 has 45 MA's), (13, 32336), (16, 32309), (17, 32264), (18, 32255), (19, 32216), (20, 32129),

Gene: Rohr_39 Start: 31475, Stop: 31245, Start Num: 9
Candidate Starts for Rohr_39:
(5, 31559), (Start: 9 @31475 has 45 MA's), (13, 31433), (16, 31406), (19, 31355), (20, 31268),

Gene: Rutherferd_40 Start: 32367, Stop: 32101, Start Num: 9
Candidate Starts for Rutherferd_40:
(Start: 9 @32367 has 45 MA's), (13, 32325), (16, 32298), (17, 32253), (18, 32244), (19, 32205),

Gene: Sanya_38 Start: 32063, Stop: 31791, Start Num: 9
Candidate Starts for Sanya_38:
(Start: 9 @32063 has 45 MA's), (13, 32021), (16, 31994), (17, 31949), (18, 31940), (19, 31901), (20, 31814),

Gene: Scowl_38 Start: 31823, Stop: 31551, Start Num: 9
Candidate Starts for Scowl_38:
(3, 31937), (4, 31913), (6, 31901), (7, 31898), (Start: 9 @31823 has 45 MA's), (13, 31781), (16, 31754), (17, 31709), (18, 31700), (19, 31661),

Gene: Seabiscuit_40 Start: 31328, Stop: 31056, Start Num: 9
Candidate Starts for Seabiscuit_40:
(2, 31463), (4, 31430), (Start: 9 @31328 has 45 MA's), (13, 31286), (16, 31259), (17, 31214), (18, 31205), (19, 31166),

Gene: Seanderson_39 Start: 31957, Stop: 31685, Start Num: 9
Candidate Starts for Seanderson_39:
(8, 31993), (Start: 9 @31957 has 45 MA's), (13, 31915), (16, 31888), (17, 31843), (18, 31834), (19, 31795), (20, 31708),

Gene: SpikeBT_40 Start: 32361, Stop: 32089, Start Num: 9
Candidate Starts for SpikeBT_40:
(2, 32496), (4, 32463), (Start: 9 @32361 has 45 MA's), (13, 32319), (16, 32292), (17, 32247), (18, 32238), (19, 32199), (20, 32112),

Gene: Treddle_41 Start: 33009, Stop: 32743, Start Num: 9
Candidate Starts for Treddle_41:
(2, 33144), (4, 33111), (Start: 9 @33009 has 45 MA's), (13, 32967), (16, 32940), (17, 32895), (18, 32886), (19, 32847),

Gene: Trouble_39 Start: 32267, Stop: 31995, Start Num: 9
Candidate Starts for Trouble_39:
(1, 32447), (3, 32381), (4, 32357), (6, 32345), (7, 32342), (Start: 9 @32267 has 45 MA's), (13, 32225), (16, 32198), (17, 32153), (18, 32144), (19, 32105),

Gene: TwoPeat_39 Start: 31714, Stop: 31484, Start Num: 9
Candidate Starts for TwoPeat_39:
(2, 31849), (4, 31816), (Start: 9 @31714 has 45 MA's), (13, 31672), (16, 31645), (19, 31594), (20, 31507),

Gene: U2_38 Start: 31407, Stop: 31135, Start Num: 9
Candidate Starts for U2_38:
(2, 31542), (4, 31509), (Start: 9 @31407 has 45 MA's), (13, 31365), (16, 31338), (17, 31293), (18, 31284), (19, 31245), (20, 31158),

Gene: Whitspit_37 Start: 29864, Stop: 29595, Start Num: 9
Candidate Starts for Whitspit_37:
(2, 29999), (4, 29966), (Start: 9 @29864 has 45 MA's), (13, 29825), (16, 29798), (17, 29753), (18, 29744), (19, 29705),

Gene: Zephyr_39 Start: 31816, Stop: 31544, Start Num: 9
Candidate Starts for Zephyr_39:
(2, 31951), (4, 31918), (Start: 9 @31816 has 45 MA's), (13, 31774), (16, 31747), (17, 31702), (18, 31693), (19, 31654),