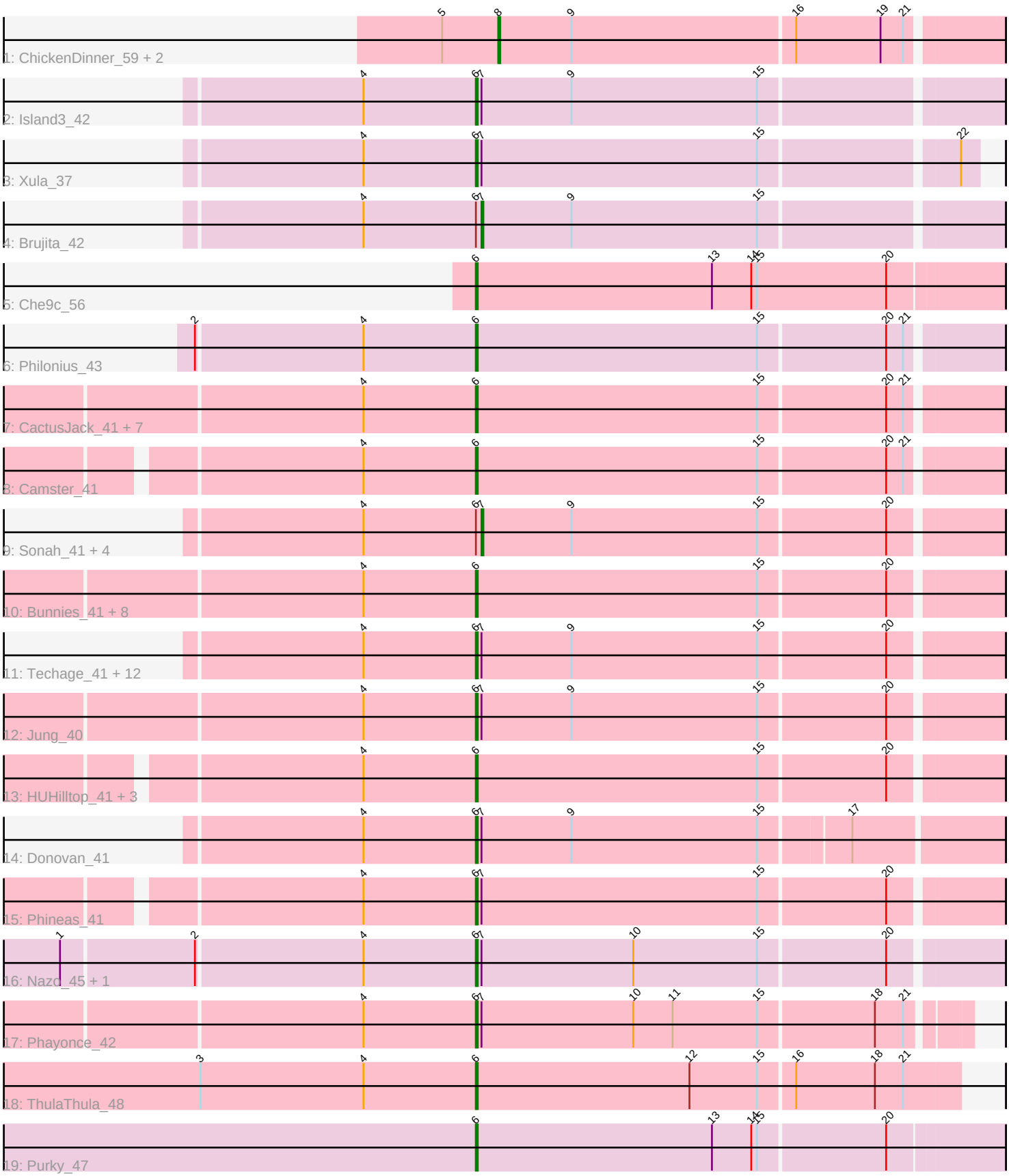
Pham 85666


1: ChickenDinner_59 + 2
2: Island3_42
3: Xula_37
4: Brujita_42
5: Che9c_56
6: Philonius_43
7: CactusJack_41 + 7
8: Camster_41
9: Sonah_41 + 4
10: Bunnies_41 + 8
11: Techage_41 + 12
12: Jung_40
13: HUHilltop_41 + 3
14: Donovan_41
15: Phineas_41
16: Nazo_45 + 1
17: Phayonce_42
18: ThulaThula_48
19: Purky_47

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 85666 Report

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

Pham number 85666 has 56 members, 6 are drafts.

Phages represented in each track:
• Track 1 : ChickenDinner_59, DocMcStuffins_56, Piper2020_58
• Track 2 : Island3_42
• Track 3 : Xula_37
• Track 4 : Brujita_42
• Track 5 : Che9c_56
• Track 6 : Philonius_43
• Track 7 : CactusJack_41, Willsammy_40, Megiddo_41, Glaske_41, GreaseLightnin_41, KilKor_41, StevieRay_41, Phalm_41
• Track 8 : Camster_41
• Track 9 : Sonah_41, Phegasus_41, FirstPlacePfu_41, Dynamo_41, Langerak_41
• Track 10 : Bunnies_41, StressBall_41, Xeno_43, Thespis_41, Atcoo_41, Brusacoram_41, Juniormint_41, Polkaroo_41, Ksquared_41
• Track 11 : Techage_41, Zilizebeth_41, Majeke_41, Vidya_41, Arib1_41, Venti_41, Bartholomew_40, Jebeks_42, Kari_41, Malithi_41, Necropolis_41, Fishburne_41, Mangethe_41
• Track 12 : Jung_40
• Track 13 : HUHilltop_41, Shipwreck_43, Bogie_43, Pygmy_43
• Track 14 : Donovan_41
• Track 15 : Phineas_41
• Track 16 : Nazo_45, BigNuz_44
• Track 17 : Phayonce_42
• Track 18 : ThulaThula_48
• Track 19 : Purky_47

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 43 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arib1_41, Atcoo_41, Bartholomew_40, BigNuz_44, Bogie_43, Brusacoram_41, Bunnies_41, CactusJack_41, Camster_41, Che9c_56, Donovan_41, Fishburne_41, Glaske_41, GreaseLightnin_41, HUHilltop_41, Island3_42, Jebeks_42, Jung_40, Juniormint_41, Kari_41, KilKor_41, Ksquared_41, Majeke_41, Malithi_41,

Mangethe_41, Megiddo_41, Nazo_45, Necropolis_41, Phalm_41, Phayonce_42, Philonius_43, Phineas_41, Polkaroo_41, Purky_47, Pygmy_43, Shipwreck_43, StevieRay_41, StressBall_41, Techage_41, Thespis_41, ThulaThula_48, Venti_41, Vidya_41, Willsammy_40, Xeno_43, Xula_37, Zilizebeth_41,

Genes that have the "Most Annotated" start but do not call it:
• Brujita_42, Dynamo_41, FirstPlacePfu_41, Langerak_41, Phegasus_41, Sonah_41,

Genes that do not have the "Most Annotated" start:
• ChickenDinner_59, DocMcStuffins_56, Piper2020_58,

Summary by start number:

Start 6:
• Found in 53 of 56 (94.6%) of genes in pham
• Manual Annotations of this start: 43 of 50
• Called 88.7% of time when present
• Phage (with cluster) where this start called: Arib1_41 (P1), Atcoo_41 (P1), Bartholomew_40 (P1), BigNuz_44 (P4), Bogie_43 (P1), Brusacoram_41 (P1), Bunnies_41 (P1), CactusJack_41 (P1), Camster_41 (P1), Che9c_56 (I2), Donovan_41 (P1), Fishburne_41 (P1), Glaske_41 (P1), GreaseLightnin_41 (P1), HUHilltop_41 (P1), Island3_42 (I1), Jebeks_42 (P1), Jung_40 (P1), Juniormint_41 (P1), Kari_41 (P1), KilKor_41 (P1), Ksquared_41 (P1), Majeke_41 (P1), Malithi_41 (P1), Mangethe_41 (P1), Megiddo_41 (P1), Nazo_45 (P4), Necropolis_41 (P1), Phalm_41 (P1), Phayonce_42 (P5), Philonius_43 (N), Phineas_41 (P1), Polkaroo_41 (P1), Purky_47 (P6), Pygmy_43 (P1), Shipwreck_43 (P1), StevieRay_41 (P1), StressBall_41 (P1), Techage_41 (P1), Thespis_41 (P1), ThulaThula_48 (P5), Venti_41 (P1), Vidya_41 (P1), Willsammy_40 (P1), Xeno_43 (N), Xula_37 (I1), Zilizebeth_41 (P1),

Start 7:
• Found in 27 of 56 (48.2%) of genes in pham
• Manual Annotations of this start: 6 of 50
• Called 22.2% of time when present
• Phage (with cluster) where this start called: Brujita_42 (I1), Dynamo_41 (P1), FirstPlacePfu_41 (P1), Langerak_41 (P1), Phegasus_41 (P1), Sonah_41 (P1),

Start 8:
• Found in 3 of 56 (5.4%) of genes in pham
• Manual Annotations of this start: 1 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ChickenDinner_59 (F1), DocMcStuffins_56 (F1), Piper2020_58 (F1),

Summary by clusters:

There are 8 clusters represented in this pham: F1, P1, P6, P4, P5, I1, I2, N,

Info for manual annotations of cluster F1:
•Start number 8 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster I1:
•Start number 6 was manually annotated 2 times for cluster I1.

•Start number 7 was manually annotated 1 time for cluster I1.

Info for manual annotations of cluster I2:
•Start number 6 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster N:
•Start number 6 was manually annotated 2 times for cluster N.

Info for manual annotations of cluster P1:
•Start number 6 was manually annotated 33 times for cluster P1.
•Start number 7 was manually annotated 5 times for cluster P1.

Info for manual annotations of cluster P4:
•Start number 6 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 6 was manually annotated 2 times for cluster P5.

Info for manual annotations of cluster P6:
•Start number 6 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: Arib1_41 Start: 30818, Stop: 31090, Start Num: 6
Candidate Starts for Arib1_41:
(4, 30758), (Start: 6 @30818 has 43 MA's), (Start: 7 @30821 has 6 MA's), (9, 30869), (15, 30968), (20, 31034),

Gene: Atcoo_41 Start: 31289, Stop: 31561, Start Num: 6
Candidate Starts for Atcoo_41:
(4, 31229), (Start: 6 @31289 has 43 MA's), (15, 31439), (20, 31505),

Gene: Bartholomew_40 Start: 30812, Stop: 31084, Start Num: 6
Candidate Starts for Bartholomew_40:
(4, 30752), (Start: 6 @30812 has 43 MA's), (Start: 7 @30815 has 6 MA's), (9, 30863), (15, 30962), (20, 31028),

Gene: BigNuz_44 Start: 32888, Stop: 33160, Start Num: 6
Candidate Starts for BigNuz_44:
(1, 32672), (2, 32741), (4, 32828), (Start: 6 @32888 has 43 MA's), (Start: 7 @32891 has 6 MA's), (10, 32972), (15, 33038), (20, 33104),

Gene: Bogie_43 Start: 32579, Stop: 32851, Start Num: 6
Candidate Starts for Bogie_43:
(4, 32519), (Start: 6 @32579 has 43 MA's), (15, 32729), (20, 32795),

Gene: Brujita_42 Start: 32481, Stop: 32750, Start Num: 7
Candidate Starts for Brujita_42:
(4, 32418), (Start: 6 @32478 has 43 MA's), (Start: 7 @32481 has 6 MA's), (9, 32529), (15, 32628),

Gene: Brusacoram_41 Start: 30795, Stop: 31067, Start Num: 6

Candidate Starts for Brusacoram_41:
(4, 30735), (Start: 6 @30795 has 43 MA's), (15, 30945), (20, 31011),

Gene: Bunnies_41 Start: 30819, Stop: 31091, Start Num: 6
Candidate Starts for Bunnies_41:
(4, 30759), (Start: 6 @30819 has 43 MA's), (15, 30969), (20, 31035),

Gene: CactusJack_41 Start: 31059, Stop: 31331, Start Num: 6
Candidate Starts for CactusJack_41:
(4, 30999), (Start: 6 @31059 has 43 MA's), (15, 31209), (20, 31275), (21, 31284),

Gene: Camster_41 Start: 30826, Stop: 31098, Start Num: 6
Candidate Starts for Camster_41:
(4, 30766), (Start: 6 @30826 has 43 MA's), (15, 30976), (20, 31042), (21, 31051),

Gene: Che9c_56 Start: 41894, Stop: 42172, Start Num: 6
Candidate Starts for Che9c_56:
(Start: 6 @41894 has 43 MA's), (13, 42020), (14, 42041), (15, 42044), (20, 42113),

Gene: ChickenDinner_59 Start: 38676, Stop: 38936, Start Num: 8
Candidate Starts for ChickenDinner_59:
(5, 38646), (Start: 8 @38676 has 1 MA's), (9, 38715), (16, 38832), (19, 38877), (21, 38889),

Gene: DocMcStuffins_56 Start: 38676, Stop: 38936, Start Num: 8
Candidate Starts for DocMcStuffins_56:
(5, 38646), (Start: 8 @38676 has 1 MA's), (9, 38715), (16, 38832), (19, 38877), (21, 38889),

Gene: Donovan_41 Start: 30835, Stop: 31107, Start Num: 6
Candidate Starts for Donovan_41:
(4, 30775), (Start: 6 @30835 has 43 MA's), (Start: 7 @30838 has 6 MA's), (9, 30886), (15, 30985), (17, 31030),

Gene: Dynamo_41 Start: 31223, Stop: 31492, Start Num: 7
Candidate Starts for Dynamo_41:
(4, 31160), (Start: 6 @31220 has 43 MA's), (Start: 7 @31223 has 6 MA's), (9, 31271), (15, 31370), (20, 31436),

Gene: FirstPlacePfu_41 Start: 30847, Stop: 31116, Start Num: 7
Candidate Starts for FirstPlacePfu_41:
(4, 30784), (Start: 6 @30844 has 43 MA's), (Start: 7 @30847 has 6 MA's), (9, 30895), (15, 30994), (20, 31060),

Gene: Fishburne_41 Start: 30812, Stop: 31084, Start Num: 6
Candidate Starts for Fishburne_41:
(4, 30752), (Start: 6 @30812 has 43 MA's), (Start: 7 @30815 has 6 MA's), (9, 30863), (15, 30962), (20, 31028),

Gene: Glaske_41 Start: 31059, Stop: 31331, Start Num: 6
Candidate Starts for Glaske_41:
(4, 30999), (Start: 6 @31059 has 43 MA's), (15, 31209), (20, 31275), (21, 31284),

Gene: GreaseLightnin_41 Start: 31048, Stop: 31320, Start Num: 6
Candidate Starts for GreaseLightnin_41:

(4, 30988), (Start: 6 @31048 has 43 MA's), (15, 31198), (20, 31264), (21, 31273),

Gene: HUHilltop_41 Start: 30836, Stop: 31108, Start Num: 6
Candidate Starts for HUHilltop_41:
(4, 30776), (Start: 6 @30836 has 43 MA's), (15, 30986), (20, 31052),

Gene: Island3_42 Start: 32478, Stop: 32750, Start Num: 6
Candidate Starts for Island3_42:
(4, 32418), (Start: 6 @32478 has 43 MA's), (Start: 7 @32481 has 6 MA's), (9, 32529), (15, 32628),

Gene: Jebeks_42 Start: 30797, Stop: 31069, Start Num: 6
Candidate Starts for Jebeks_42:
(4, 30737), (Start: 6 @30797 has 43 MA's), (Start: 7 @30800 has 6 MA's), (9, 30848), (15, 30947), (20, 31013),

Gene: Jung_40 Start: 30766, Stop: 31038, Start Num: 6
Candidate Starts for Jung_40:
(4, 30706), (Start: 6 @30766 has 43 MA's), (Start: 7 @30769 has 6 MA's), (9, 30817), (15, 30916), (20, 30982),

Gene: Juniormint_41 Start: 30841, Stop: 31113, Start Num: 6
Candidate Starts for Juniormint_41:
(4, 30781), (Start: 6 @30841 has 43 MA's), (15, 30991), (20, 31057),

Gene: Kari_41 Start: 30809, Stop: 31081, Start Num: 6
Candidate Starts for Kari_41:
(4, 30749), (Start: 6 @30809 has 43 MA's), (Start: 7 @30812 has 6 MA's), (9, 30860), (15, 30959), (20, 31025),

Gene: KilKor_41 Start: 31059, Stop: 31331, Start Num: 6
Candidate Starts for KilKor_41:
(4, 30999), (Start: 6 @31059 has 43 MA's), (15, 31209), (20, 31275), (21, 31284),

Gene: Ksquared_41 Start: 30819, Stop: 31091, Start Num: 6
Candidate Starts for Ksquared_41:
(4, 30759), (Start: 6 @30819 has 43 MA's), (15, 30969), (20, 31035),

Gene: Langerak_41 Start: 30831, Stop: 31100, Start Num: 7
Candidate Starts for Langerak_41:
(4, 30768), (Start: 6 @30828 has 43 MA's), (Start: 7 @30831 has 6 MA's), (9, 30879), (15, 30978), (20, 31044),

Gene: Majeke_41 Start: 30853, Stop: 31125, Start Num: 6
Candidate Starts for Majeke_41:
(4, 30793), (Start: 6 @30853 has 43 MA's), (Start: 7 @30856 has 6 MA's), (9, 30904), (15, 31003), (20, 31069),

Gene: Malithi_41 Start: 30728, Stop: 31000, Start Num: 6
Candidate Starts for Malithi_41:
(4, 30668), (Start: 6 @30728 has 43 MA's), (Start: 7 @30731 has 6 MA's), (9, 30779), (15, 30878), (20, 30944),

Gene: Mangethe_41 Start: 30853, Stop: 31125, Start Num: 6

Candidate Starts for Mangethe_41:
(4, 30793), (Start: 6 @30853 has 43 MA's), (Start: 7 @30856 has 6 MA's), (9, 30904), (15, 31003), (20, 31069),

Gene: Megiddo_41 Start: 31059, Stop: 31331, Start Num: 6
Candidate Starts for Megiddo_41:
(4, 30999), (Start: 6 @31059 has 43 MA's), (15, 31209), (20, 31275), (21, 31284),

Gene: Nazo_45 Start: 33085, Stop: 33357, Start Num: 6
Candidate Starts for Nazo_45:
(1, 32869), (2, 32938), (4, 33025), (Start: 6 @33085 has 43 MA's), (Start: 7 @33088 has 6 MA's), (10, 33169), (15, 33235), (20, 33301),

Gene: Necropolis_41 Start: 30809, Stop: 31081, Start Num: 6
Candidate Starts for Necropolis_41:
(4, 30749), (Start: 6 @30809 has 43 MA's), (Start: 7 @30812 has 6 MA's), (9, 30860), (15, 30959), (20, 31025),

Gene: Phalm_41 Start: 31059, Stop: 31331, Start Num: 6
Candidate Starts for Phalm_41:
(4, 30999), (Start: 6 @31059 has 43 MA's), (15, 31209), (20, 31275), (21, 31284),

Gene: Phayonce_42 Start: 32811, Stop: 33065, Start Num: 6
Candidate Starts for Phayonce_42:
(4, 32751), (Start: 6 @32811 has 43 MA's), (Start: 7 @32814 has 6 MA's), (10, 32895), (11, 32916), (15, 32961), (18, 33021), (21, 33036),

Gene: Phegasus_41 Start: 30823, Stop: 31092, Start Num: 7
Candidate Starts for Phegasus_41:
(4, 30760), (Start: 6 @30820 has 43 MA's), (Start: 7 @30823 has 6 MA's), (9, 30871), (15, 30970), (20, 31036),

Gene: Philonius_43 Start: 29911, Stop: 30183, Start Num: 6
Candidate Starts for Philonius_43:
(2, 29764), (4, 29851), (Start: 6 @29911 has 43 MA's), (15, 30061), (20, 30127), (21, 30136),

Gene: Phineas_41 Start: 31171, Stop: 31443, Start Num: 6
Candidate Starts for Phineas_41:
(4, 31111), (Start: 6 @31171 has 43 MA's), (Start: 7 @31174 has 6 MA's), (15, 31321), (20, 31387),

Gene: Piper2020_58 Start: 38659, Stop: 38919, Start Num: 8
Candidate Starts for Piper2020_58:
(5, 38629), (Start: 8 @38659 has 1 MA's), (9, 38698), (16, 38815), (19, 38860), (21, 38872),

Gene: Polkaroo_41 Start: 30816, Stop: 31088, Start Num: 6
Candidate Starts for Polkaroo_41:
(4, 30756), (Start: 6 @30816 has 43 MA's), (15, 30966), (20, 31032),

Gene: Purky_47 Start: 33298, Stop: 33573, Start Num: 6
Candidate Starts for Purky_47:
(Start: 6 @33298 has 43 MA's), (13, 33424), (14, 33445), (15, 33448), (20, 33514),

Gene: Pygmy_43 Start: 32635, Stop: 32907, Start Num: 6

Candidate Starts for Pygmy_43:
(4, 32575), (Start: 6 @32635 has 43 MA's), (15, 32785), (20, 32851),

Gene: Shipwreck_43 Start: 32610, Stop: 32882, Start Num: 6
Candidate Starts for Shipwreck_43:
(4, 32550), (Start: 6 @32610 has 43 MA's), (15, 32760), (20, 32826),

Gene: Sonah_41 Start: 30801, Stop: 31070, Start Num: 7
Candidate Starts for Sonah_41:
(4, 30738), (Start: 6 @30798 has 43 MA's), (Start: 7 @30801 has 6 MA's), (9, 30849), (15, 30948), (20, 31014),

Gene: StevieRay_41 Start: 30761, Stop: 31033, Start Num: 6
Candidate Starts for StevieRay_41:
(4, 30701), (Start: 6 @30761 has 43 MA's), (15, 30911), (20, 30977), (21, 30986),

Gene: StressBall_41 Start: 31059, Stop: 31331, Start Num: 6
Candidate Starts for StressBall_41:
(4, 30999), (Start: 6 @31059 has 43 MA's), (15, 31209), (20, 31275),

Gene: Techage_41 Start: 30838, Stop: 31110, Start Num: 6
Candidate Starts for Techage_41:
(4, 30778), (Start: 6 @30838 has 43 MA's), (Start: 7 @30841 has 6 MA's), (9, 30889), (15, 30988), (20, 31054),

Gene: Thespis_41 Start: 30795, Stop: 31067, Start Num: 6
Candidate Starts for Thespis_41:
(4, 30735), (Start: 6 @30795 has 43 MA's), (15, 30945), (20, 31011),

Gene: ThulaThula_48 Start: 35190, Stop: 35444, Start Num: 6
Candidate Starts for ThulaThula_48:
(3, 35043), (4, 35130), (Start: 6 @35190 has 43 MA's), (12, 35304), (15, 35340), (16, 35358), (18, 35400), (21, 35415),

Gene: Venti_41 Start: 30812, Stop: 31084, Start Num: 6
Candidate Starts for Venti_41:
(4, 30752), (Start: 6 @30812 has 43 MA's), (Start: 7 @30815 has 6 MA's), (9, 30863), (15, 30962), (20, 31028),

Gene: Vidya_41 Start: 30845, Stop: 31117, Start Num: 6
Candidate Starts for Vidya_41:
(4, 30785), (Start: 6 @30845 has 43 MA's), (Start: 7 @30848 has 6 MA's), (9, 30896), (15, 30995), (20, 31061),

Gene: Willsammy_40 Start: 30542, Stop: 30814, Start Num: 6
Candidate Starts for Willsammy_40:
(4, 30482), (Start: 6 @30542 has 43 MA's), (15, 30692), (20, 30758), (21, 30767),

Gene: Xeno_43 Start: 30137, Stop: 30409, Start Num: 6
Candidate Starts for Xeno_43:
(4, 30077), (Start: 6 @30137 has 43 MA's), (15, 30287), (20, 30353),

Gene: Xula_37 Start: 30047, Stop: 30304, Start Num: 6

Candidate Starts for Xula_37:
(4, 29987), (Start: 6 @30047 has 43 MA's), (Start: 7 @30050 has 6 MA's), (15, 30197), (22, 30296),

Gene: Zilizebeth_41 Start: 30844, Stop: 31116, Start Num: 6
Candidate Starts for Zilizebeth_41:
(4, 30784), (Start: 6 @30844 has 43 MA's), (Start: 7 @30847 has 6 MA's), (9, 30895), (15, 30994), (20, 31060),