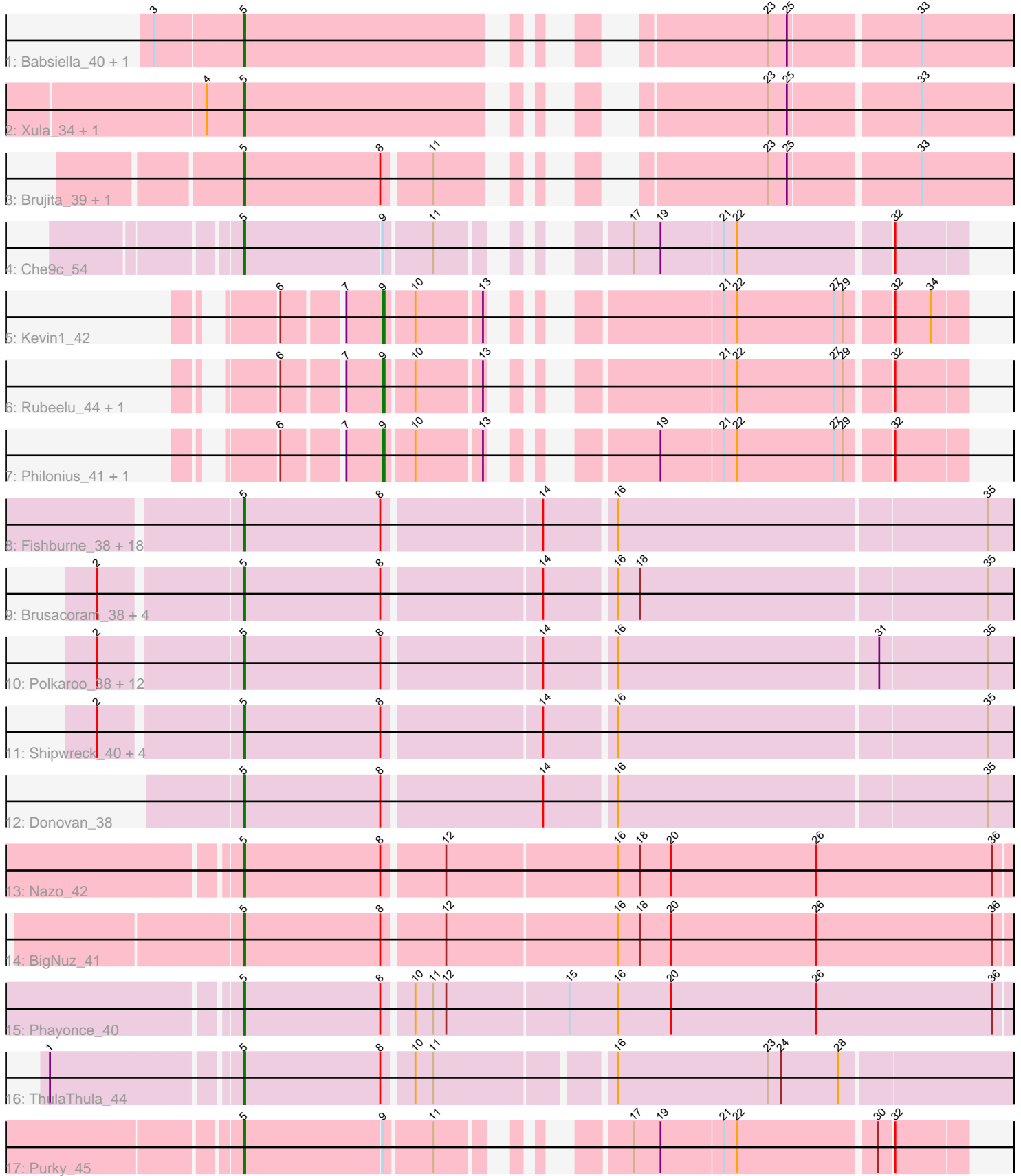


Pham 171477



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 171477 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171477 has 60 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Babsiella_40, HC_38
- Track 2 : Xula_34, QueenHazel_35
- Track 3 : Brujita_39, Island3_39
- Track 4 : Che9c_54
- Track 5 : Kevin1_42
- Track 6 : Rubeelu_44, Butters_44
- Track 7 : Philonius_41, MichelleMyBell_41
- Track 8 : Fishburne_38, Jebeks_39, Necropolis_38, Venti_38, Bartholomew_37, Dynamo_38, Langerak_38, Mangethe_38, Techage_38, Sonah_38, Phineas_38, Zilizabeth_38, Majeke_38, HUHilltop_38, FirstPlacePfu_38, Vidya_38, Kari_38, Phegasus_38, Arib1_38
- Track 9 : Brusacoram_38, Xeno_40, GreaseLightnin_38, Atcoo_38, Thespis_38
- Track 10 : Polkaroo_38, KilKor_38, Phalm_38, Jung_37, Willsammy_37, Bunnies_38, Ksquared_38, CactusJack_38, StressBall_38, StevieRay_38, Glaske_38, Juniormint_38, Megiddo_38
- Track 11 : Shipwreck_40, Camster_38, Bogie_40, Malithi_38, Pygmy_40
- Track 12 : Donovan_38
- Track 13 : Nazo_42
- Track 14 : BigNuz_41
- Track 15 : Phayonce_40
- Track 16 : ThulaThula_44
- Track 17 : Purky_45

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

The start number called the most often in the published annotations is 5, it was called in 52 of the 57 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arib1_38, Atcoo_38, Babsiella_40, Bartholomew_37, BigNuz_41, Bogie_40, Brujita_39, Brusacoram_38, Bunnies_38, CactusJack_38, Camster_38, Che9c_54, Donovan_38, Dynamo_38, FirstPlacePfu_38, Fishburne_38, Glaske_38, GreaseLightnin_38, HC_38, HUHilltop_38, Island3_39, Jebeks_39, Jung_37, Juniormint_38, Kari_38, KilKor_38, Ksquared_38, Langerak_38, Majeke_38,

Malithi_38, Mangethe_38, Megiddo_38, Nazo_42, Necropolis_38, Phalm_38, Phayonce_40, Phegasus_38, Phineas_38, Polkaroo_38, Purky_45, Pygmy_40, QueenHazel_35, Shipwreck_40, Sonah_38, StevieRay_38, StressBall_38, Techage_38, Thespis_38, ThulaThula_44, Venti_38, Vidya_38, Willsammy_37, Xeno_40, Xula_34, Zilizebeth_38,

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

-

Genes that do not have the "Most Annotated" start:

- Butters_44, Kevin1_42, MichelleMyBell_41, Philonius_41, Rubeelu_44,

Summary by start number:

Start 5:

- Found in 55 of 60 (91.7%) of genes in pham
- Manual Annotations of this start: 52 of 57
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arib1_38 (P1), Atcoo_38 (P1), Babsiella_40 (I1), Bartholomew_37 (P1), BigNuz_41 (P4), Bogie_40 (P1), Brujita_39 (I1), Brusacoram_38 (P1), Bunnies_38 (P1), CactusJack_38 (P1), Camster_38 (P1), Che9c_54 (I2), Donovan_38 (P1), Dynamo_38 (P1), FirstPlacePfu_38 (P1), Fishburne_38 (P1), Glaske_38 (P1), GreaseLightnin_38 (P1), HC_38 (I1), HUHilltop_38 (P1), Island3_39 (I1), Jebeks_39 (P1), Jung_37 (P1), Juniormint_38 (P1), Kari_38 (P1), KilKor_38 (P1), Ksquared_38 (P1), Langerak_38 (P1), Majeke_38 (P1), Malithi_38 (P1), Mangethe_38 (P1), Megiddo_38 (P1), Nazo_42 (P4), Necropolis_38 (P1), Phalm_38 (P1), Phayonce_40 (P5), Phegasus_38 (P1), Phineas_38 (P1), Polkaroo_38 (P1), Purky_45 (P6), Pygmy_40 (P1), QueenHazel_35 (I1), Shipwreck_40 (P1), Sonah_38 (P1), StevieRay_38 (P1), StressBall_38 (P1), Techage_38 (P1), Thespis_38 (P1), ThulaThula_44 (P5), Venti_38 (P1), Vidya_38 (P1), Willsammy_37 (P1), Xeno_40 (N), Xula_34 (I1), Zilizebeth_38 (P1),

Start 9:

- Found in 7 of 60 (11.7%) of genes in pham
- Manual Annotations of this start: 5 of 57
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Butters_44 (N), Kevin1_42 (N), MichelleMyBell_41 (N), Philonius_41 (N), Rubeelu_44 (N),

Summary by clusters:

There are 7 clusters represented in this pham: P1, P6, P4, P5, I1, I2, N,

Info for manual annotations of cluster I1:

- Start number 5 was manually annotated 6 times for cluster I1.

Info for manual annotations of cluster I2:

- Start number 5 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster N:

- Start number 5 was manually annotated 1 time for cluster N.
- Start number 9 was manually annotated 5 times for cluster N.

Info for manual annotations of cluster P1:

- Start number 5 was manually annotated 39 times for cluster P1.

Info for manual annotations of cluster P4:

- Start number 5 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:

- Start number 5 was manually annotated 2 times for cluster P5.

Info for manual annotations of cluster P6:

- Start number 5 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: Arib1_38 Start: 29810, Stop: 30316, Start Num: 5

Candidate Starts for Arib1_38:

(Start: 5 @29810 has 52 MA's), (8, 29903), (14, 30008), (16, 30053), (35, 30299),

Gene: Atcoo_38 Start: 30284, Stop: 30787, Start Num: 5

Candidate Starts for Atcoo_38:

(2, 30197), (Start: 5 @30284 has 52 MA's), (8, 30377), (14, 30479), (16, 30524), (18, 30539), (35, 30770),

Gene: Babsiella_40 Start: 30786, Stop: 31223, Start Num: 5

Candidate Starts for Babsiella_40:

(3, 30729), (Start: 5 @30786 has 52 MA's), (23, 31065), (25, 31077), (33, 31161),

Gene: Bartholomew_37 Start: 29807, Stop: 30310, Start Num: 5

Candidate Starts for Bartholomew_37:

(Start: 5 @29807 has 52 MA's), (8, 29900), (14, 30002), (16, 30047), (35, 30293),

Gene: BigNuz_41 Start: 31916, Stop: 32428, Start Num: 5

Candidate Starts for BigNuz_41:

(Start: 5 @31916 has 52 MA's), (8, 32009), (12, 32048), (16, 32162), (18, 32177), (20, 32198), (26, 32297), (36, 32417),

Gene: Bogie_40 Start: 31583, Stop: 32086, Start Num: 5

Candidate Starts for Bogie_40:

(2, 31496), (Start: 5 @31583 has 52 MA's), (8, 31676), (14, 31778), (16, 31823), (35, 32069),

Gene: Brujita_39 Start: 31520, Stop: 31951, Start Num: 5

Candidate Starts for Brujita_39:

(Start: 5 @31520 has 52 MA's), (8, 31613), (11, 31643), (23, 31793), (25, 31805), (33, 31889),

Gene: Brusacoram_38 Start: 29790, Stop: 30293, Start Num: 5

Candidate Starts for Brusacoram_38:

(2, 29703), (Start: 5 @29790 has 52 MA's), (8, 29883), (14, 29985), (16, 30030), (18, 30045), (35, 30276),

Gene: Bunnies_38 Start: 29814, Stop: 30317, Start Num: 5

Candidate Starts for Bunnies_38:

(2, 29727), (Start: 5 @29814 has 52 MA's), (8, 29907), (14, 30009), (16, 30054), (31, 30228), (35, 30300),

Gene: Butters_44 Start: 31386, Stop: 31709, Start Num: 9

Candidate Starts for Butters_44:

(6, 31326), (7, 31362), (Start: 9 @31386 has 5 MA's), (10, 31404), (13, 31446), (21, 31554), (22, 31563), (27, 31629), (29, 31635), (32, 31662),

Gene: CactusJack_38 Start: 30054, Stop: 30557, Start Num: 5

Candidate Starts for CactusJack_38:

(2, 29967), (Start: 5 @30054 has 52 MA's), (8, 30147), (14, 30249), (16, 30294), (31, 30468), (35, 30540),

Gene: Camster_38 Start: 29830, Stop: 30333, Start Num: 5

Candidate Starts for Camster_38:

(2, 29743), (Start: 5 @29830 has 52 MA's), (8, 29923), (14, 30025), (16, 30070), (35, 30316),

Gene: Che9c_54 Start: 41194, Stop: 41610, Start Num: 5

Candidate Starts for Che9c_54:

(Start: 5 @41194 has 52 MA's), (Start: 9 @41287 has 5 MA's), (11, 41317), (17, 41398), (19, 41416), (21, 41455), (22, 41464), (32, 41563),

Gene: Donovan_38 Start: 29827, Stop: 30333, Start Num: 5

Candidate Starts for Donovan_38:

(Start: 5 @29827 has 52 MA's), (8, 29920), (14, 30025), (16, 30070), (35, 30316),

Gene: Dynamo_38 Start: 30215, Stop: 30718, Start Num: 5

Candidate Starts for Dynamo_38:

(Start: 5 @30215 has 52 MA's), (8, 30308), (14, 30410), (16, 30455), (35, 30701),

Gene: FirstPlacePfu_38 Start: 29839, Stop: 30342, Start Num: 5

Candidate Starts for FirstPlacePfu_38:

(Start: 5 @29839 has 52 MA's), (8, 29932), (14, 30034), (16, 30079), (35, 30325),

Gene: Fishburne_38 Start: 29807, Stop: 30310, Start Num: 5

Candidate Starts for Fishburne_38:

(Start: 5 @29807 has 52 MA's), (8, 29900), (14, 30002), (16, 30047), (35, 30293),

Gene: Glaske_38 Start: 30054, Stop: 30557, Start Num: 5

Candidate Starts for Glaske_38:

(2, 29967), (Start: 5 @30054 has 52 MA's), (8, 30147), (14, 30249), (16, 30294), (31, 30468), (35, 30540),

Gene: GreaseLightnin_38 Start: 30043, Stop: 30546, Start Num: 5

Candidate Starts for GreaseLightnin_38:

(2, 29956), (Start: 5 @30043 has 52 MA's), (8, 30136), (14, 30238), (16, 30283), (18, 30298), (35, 30529),

Gene: HC_38 Start: 29567, Stop: 30004, Start Num: 5

Candidate Starts for HC_38:

(3, 29510), (Start: 5 @29567 has 52 MA's), (23, 29846), (25, 29858), (33, 29942),

Gene: HUHilltop_38 Start: 29837, Stop: 30343, Start Num: 5

Candidate Starts for HUHilltop_38:

(Start: 5 @29837 has 52 MA's), (8, 29930), (14, 30035), (16, 30080), (35, 30326),

Gene: Island3_39 Start: 31520, Stop: 31951, Start Num: 5

Candidate Starts for Island3_39:

(Start: 5 @31520 has 52 MA's), (8, 31613), (11, 31643), (23, 31793), (25, 31805), (33, 31889),

Gene: Jebeks_39 Start: 29792, Stop: 30295, Start Num: 5

Candidate Starts for Jebeks_39:

(Start: 5 @29792 has 52 MA's), (8, 29885), (14, 29987), (16, 30032), (35, 30278),

Gene: Jung_37 Start: 29761, Stop: 30264, Start Num: 5

Candidate Starts for Jung_37:

(2, 29674), (Start: 5 @29761 has 52 MA's), (8, 29854), (14, 29956), (16, 30001), (31, 30175), (35, 30247),

Gene: Juniormint_38 Start: 29836, Stop: 30339, Start Num: 5

Candidate Starts for Juniormint_38:

(2, 29749), (Start: 5 @29836 has 52 MA's), (8, 29929), (14, 30031), (16, 30076), (31, 30250), (35, 30322),

Gene: Kari_38 Start: 29804, Stop: 30307, Start Num: 5

Candidate Starts for Kari_38:

(Start: 5 @29804 has 52 MA's), (8, 29897), (14, 29999), (16, 30044), (35, 30290),

Gene: Kevin1_42 Start: 30562, Stop: 30885, Start Num: 9

Candidate Starts for Kevin1_42:

(6, 30502), (7, 30538), (Start: 9 @30562 has 5 MA's), (10, 30580), (13, 30622), (21, 30730), (22, 30739), (27, 30805), (29, 30811), (32, 30838), (34, 30862),

Gene: KilKor_38 Start: 30054, Stop: 30557, Start Num: 5

Candidate Starts for KilKor_38:

(2, 29967), (Start: 5 @30054 has 52 MA's), (8, 30147), (14, 30249), (16, 30294), (31, 30468), (35, 30540),

Gene: Ksquared_38 Start: 29814, Stop: 30317, Start Num: 5

Candidate Starts for Ksquared_38:

(2, 29727), (Start: 5 @29814 has 52 MA's), (8, 29907), (14, 30009), (16, 30054), (31, 30228), (35, 30300),

Gene: Langerak_38 Start: 29820, Stop: 30326, Start Num: 5

Candidate Starts for Langerak_38:

(Start: 5 @29820 has 52 MA's), (8, 29913), (14, 30018), (16, 30063), (35, 30309),

Gene: Majeke_38 Start: 29845, Stop: 30351, Start Num: 5

Candidate Starts for Majeke_38:

(Start: 5 @29845 has 52 MA's), (8, 29938), (14, 30043), (16, 30088), (35, 30334),

Gene: Malithi_38 Start: 29723, Stop: 30226, Start Num: 5

Candidate Starts for Malithi_38:

(2, 29636), (Start: 5 @29723 has 52 MA's), (8, 29816), (14, 29918), (16, 29963), (35, 30209),

Gene: Mangethe_38 Start: 29845, Stop: 30351, Start Num: 5

Candidate Starts for Mangethe_38:

(Start: 5 @29845 has 52 MA's), (8, 29938), (14, 30043), (16, 30088), (35, 30334),

Gene: Megiddo_38 Start: 30054, Stop: 30557, Start Num: 5

Candidate Starts for Megiddo_38:

(2, 29967), (Start: 5 @30054 has 52 MA's), (8, 30147), (14, 30249), (16, 30294), (31, 30468), (35, 30540),

Gene: MichelleMyBell_41 Start: 29657, Stop: 29980, Start Num: 9

Candidate Starts for MichelleMyBell_41:

(6, 29597), (7, 29633), (Start: 9 @29657 has 5 MA's), (10, 29675), (13, 29717), (19, 29786), (21, 29825), (22, 29834), (27, 29900), (29, 29906), (32, 29933),

Gene: Nazo_42 Start: 32113, Stop: 32625, Start Num: 5

Candidate Starts for Nazo_42:

(Start: 5 @32113 has 52 MA's), (8, 32206), (12, 32245), (16, 32359), (18, 32374), (20, 32395), (26, 32494), (36, 32614),

Gene: Necropolis_38 Start: 29804, Stop: 30307, Start Num: 5

Candidate Starts for Necropolis_38:

(Start: 5 @29804 has 52 MA's), (8, 29897), (14, 29999), (16, 30044), (35, 30290),

Gene: Phalm_38 Start: 30054, Stop: 30557, Start Num: 5

Candidate Starts for Phalm_38:

(2, 29967), (Start: 5 @30054 has 52 MA's), (8, 30147), (14, 30249), (16, 30294), (31, 30468), (35, 30540),

Gene: Phayonce_40 Start: 32024, Stop: 32536, Start Num: 5

Candidate Starts for Phayonce_40:

(Start: 5 @32024 has 52 MA's), (8, 32117), (10, 32135), (11, 32147), (12, 32156), (15, 32237), (16, 32270), (20, 32306), (26, 32405), (36, 32525),

Gene: Phegasus_38 Start: 29812, Stop: 30318, Start Num: 5

Candidate Starts for Phegasus_38:

(Start: 5 @29812 has 52 MA's), (8, 29905), (14, 30010), (16, 30055), (35, 30301),

Gene: Philonius_41 Start: 29325, Stop: 29648, Start Num: 9

Candidate Starts for Philonius_41:

(6, 29265), (7, 29301), (Start: 9 @29325 has 5 MA's), (10, 29343), (13, 29385), (19, 29454), (21, 29493), (22, 29502), (27, 29568), (29, 29574), (32, 29601),

Gene: Phineas_38 Start: 30175, Stop: 30678, Start Num: 5

Candidate Starts for Phineas_38:

(Start: 5 @30175 has 52 MA's), (8, 30268), (14, 30370), (16, 30415), (35, 30661),

Gene: Polkaroo_38 Start: 29811, Stop: 30314, Start Num: 5

Candidate Starts for Polkaroo_38:

(2, 29724), (Start: 5 @29811 has 52 MA's), (8, 29904), (14, 30006), (16, 30051), (31, 30225), (35, 30297),

Gene: Purky_45 Start: 32598, Stop: 33014, Start Num: 5

Candidate Starts for Purky_45:

(Start: 5 @32598 has 52 MA's), (Start: 9 @32691 has 5 MA's), (11, 32721), (17, 32802), (19, 32820), (21, 32859), (22, 32868), (30, 32958), (32, 32967),

Gene: Pygmy_40 Start: 31639, Stop: 32142, Start Num: 5

Candidate Starts for Pygmy_40:

(2, 31552), (Start: 5 @31639 has 52 MA's), (8, 31732), (14, 31834), (16, 31879), (35, 32125),

Gene: QueenHazel_35 Start: 29560, Stop: 29997, Start Num: 5

Candidate Starts for QueenHazel_35:

(4, 29536), (Start: 5 @29560 has 52 MA's), (23, 29839), (25, 29851), (33, 29935),

Gene: Rubeelu_44 Start: 31386, Stop: 31709, Start Num: 9

Candidate Starts for Rubeelu_44:

(6, 31326), (7, 31362), (Start: 9 @31386 has 5 MA's), (10, 31404), (13, 31446), (21, 31554), (22, 31563), (27, 31629), (29, 31635), (32, 31662),

Gene: Shipwreck_40 Start: 31614, Stop: 32117, Start Num: 5

Candidate Starts for Shipwreck_40:

(2, 31527), (Start: 5 @31614 has 52 MA's), (8, 31707), (14, 31809), (16, 31854), (35, 32100),

Gene: Sonah_38 Start: 29793, Stop: 30296, Start Num: 5

Candidate Starts for Sonah_38:

(Start: 5 @29793 has 52 MA's), (8, 29886), (14, 29988), (16, 30033), (35, 30279),

Gene: StevieRay_38 Start: 29756, Stop: 30259, Start Num: 5

Candidate Starts for StevieRay_38:

(2, 29669), (Start: 5 @29756 has 52 MA's), (8, 29849), (14, 29951), (16, 29996), (31, 30170), (35, 30242),

Gene: StressBall_38 Start: 30054, Stop: 30557, Start Num: 5

Candidate Starts for StressBall_38:

(2, 29967), (Start: 5 @30054 has 52 MA's), (8, 30147), (14, 30249), (16, 30294), (31, 30468), (35, 30540),

Gene: Techage_38 Start: 29830, Stop: 30336, Start Num: 5

Candidate Starts for Techage_38:

(Start: 5 @29830 has 52 MA's), (8, 29923), (14, 30028), (16, 30073), (35, 30319),

Gene: Thespis_38 Start: 29790, Stop: 30293, Start Num: 5

Candidate Starts for Thespis_38:

(2, 29703), (Start: 5 @29790 has 52 MA's), (8, 29883), (14, 29985), (16, 30030), (18, 30045), (35, 30276),

Gene: ThulaThula_44 Start: 34021, Stop: 34518, Start Num: 5

Candidate Starts for ThulaThula_44:

(1, 33904), (Start: 5 @34021 has 52 MA's), (8, 34114), (10, 34132), (11, 34144), (16, 34255), (23, 34357), (24, 34366), (28, 34405),

Gene: Venti_38 Start: 29807, Stop: 30310, Start Num: 5

Candidate Starts for Venti_38:

(Start: 5 @29807 has 52 MA's), (8, 29900), (14, 30002), (16, 30047), (35, 30293),

Gene: Vidya_38 Start: 29840, Stop: 30343, Start Num: 5

Candidate Starts for Vidya_38:

(Start: 5 @29840 has 52 MA's), (8, 29933), (14, 30035), (16, 30080), (35, 30326),

Gene: Willsammy_37 Start: 29537, Stop: 30040, Start Num: 5

Candidate Starts for Willsammy_37:

(2, 29450), (Start: 5 @29537 has 52 MA's), (8, 29630), (14, 29732), (16, 29777), (31, 29951), (35, 30023),

Gene: Xeno_40 Start: 29132, Stop: 29635, Start Num: 5

Candidate Starts for Xeno_40:

(2, 29045), (Start: 5 @29132 has 52 MA's), (8, 29225), (14, 29327), (16, 29372), (18, 29387), (35, 29618),

Gene: Xula_34 Start: 29084, Stop: 29521, Start Num: 5

Candidate Starts for Xula_34:

(4, 29060), (Start: 5 @29084 has 52 MA's), (23, 29363), (25, 29375), (33, 29459),

Gene: Zilizebeth_38 Start: 29839, Stop: 30342, Start Num: 5

Candidate Starts for Zilizebeth_38:

(Start: 5 @29839 has 52 MA's), (8, 29932), (14, 30034), (16, 30079), (35, 30325),