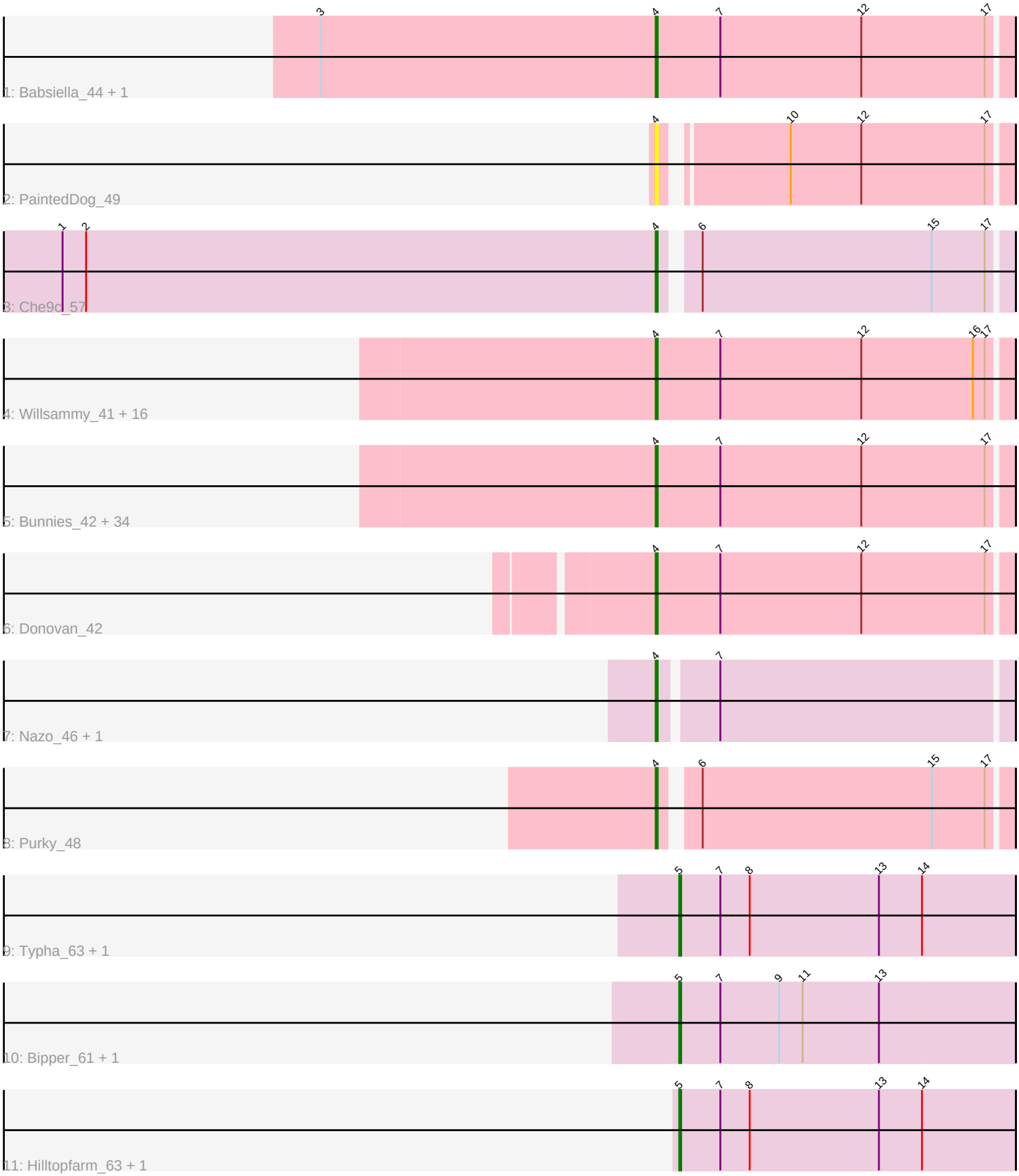
Pham 345725


3
4
7
12
17
1: Babsiella_44 + 1
4
10
12
17
2: PaintedDog_49
1
2
4
6
15
17
3: Che9c_57
4
7
12
16
17
4: Willsammy_41 + 16
4
7
12
17
5: Bunnies_42 + 34
4
7
12
17
6: Donovan_42
4
7
7: Nazo_46 + 1
4
6
15
17
8: Purky_48
5
7
8
13
14
9: Typha_63 + 1
5
7
9
11
13
10: Bipper_61 + 1
5
7
8
13
14
11: Hilltopfarm_63 + 1

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 345725 Report

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

Pham number 345725 has 66 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Babsiella_44, HC_42
• Track 2 : PaintedDog_49
• Track 3 : Che9c_57
• Track 4 : Willsammy_41, StressBall_42, Xeno_44, Thespis_42, Atcoo_42, Glaske_42, StevieRay_42, Brusacoram_42, PeanutPie_42, CactusJack_42, Megiddo_42, KilKor_42, Bhagsy_42, GreaseLightnin_42, Gavriela_42, Philonius_44, Phalm_42
• Track 5 : Bunnies_42, Jung_41, Juniormint_42, Island3_43, Camster_42, Kari_42, Zilizebeth_42, Etoile_42, FirstPlacePfu_42, Phegasus_42, Vidya_42, Shipwreck_44, Arib1_42, Malithi_42, Venti_42, Jebeks_43, Phineas_42, Necropolis_42, Ksquared_42, Dynamo_42, BronnyJr_42, Polkaroo_42, GaloreK_42, Bogie_44, Bartholomew_41, Fishburne_42, Langerak_42, Techage_42, Brujita_43, Chubbello_42, Mangethe_42, Pygmy_44, HUHilltop_42, Sonah_42, Majeke_42
• Track 6 : Donovan_42
• Track 7 : Nazo_46, BigNuz_45
• Track 8 : Purky_48
• Track 9 : Typha_63, AuntGwenStacy_64
• Track 10 : Bipper_61, Cracklewink_61
• Track 11 : Hilltopfarm_63, Faiyaz_64

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

The start number called the most often in the published annotations is 4, it was called in 54 of the 60 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arib1_42, Atcoo_42, Babsiella_44, Bartholomew_41, Bhagsy_42, BigNuz_45, Bogie_44, BronnyJr_42, Brujita_43, Brusacoram_42, Bunnies_42, CactusJack_42, Camster_42, Che9c_57, Chubbello_42, Donovan_42, Dynamo_42, Etoile_42, FirstPlacePfu_42, Fishburne_42, GaloreK_42, Gavriela_42, Glaske_42, GreaseLightnin_42, HC_42, HUHilltop_42, Island3_43, Jebeks_43, Jung_41, Juniormint_42, Kari_42, KilKor_42, Ksquared_42, Langerak_42, Majeke_42, Malithi_42, Mangethe_42, Megiddo_42, Nazo_46, Necropolis_42, PaintedDog_49, PeanutPie_42, Phalm_42, Phegasus_42, Philonius_44, Phineas_42, Polkaroo_42,

Purky_48, Pygmy_44, Shipwreck_44, Sonah_42, StevieRay_42, StressBall_42, Techage_42, Thespis_42, Venti_42, Vidya_42, Willsammy_41, Xeno_44, Zilizebeth_42,

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

Genes that do not have the "Most Annotated" start:
• AuntGwenStacy_64, Bipper_61, Cracklewink_61, Faiyaz_64, Hilltopfarm_63, Typha_63,

Summary by start number:

Start 4:
• Found in 60 of 66 (90.9%) of genes in pham
• Manual Annotations of this start: 54 of 60
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arib1_42 (P1), Atcoo_42 (P1), Babsiella_44 (I1), Bartholomew_41 (P1), Bhagsy_42 (P1), BigNuz_45 (P4), Bogie_44 (P1), BronnyJr_42 (P1), Brujita_43 (I1), Brusacoram_42 (P1), Bunnies_42 (P1), CactusJack_42 (P1), Camster_42 (P1), Che9c_57 (I2), Chubbello_42 (P1), Donovan_42 (P1), Dynamo_42 (P1), Etoile_42 (P1), FirstPlacePfu_42 (P1), Fishburne_42 (P1), GaloreK_42 (P1), Gavriela_42 (P1), Glaske_42 (P1), GreaseLightnin_42 (P1), HC_42 (I1), HUHilltop_42 (P1), Island3_43 (I1), Jebeks_43 (P1), Jung_41 (P1), Juniormint_42 (P1), Kari_42 (P1), KilKor_42 (P1), Ksquared_42 (P1), Langerak_42 (P1), Majeke_42 (P1), Malithi_42 (P1), Mangethe_42 (P1), Megiddo_42 (P1), Nazo_46 (P4), Necropolis_42 (P1), PaintedDog_49 (I1), PeanutPie_42 (P1), Phalm_42 (P1), Phegasus_42 (P1), Philonius_44 (N), Phineas_42 (P1), Polkaroo_42 (P1), Purky_48 (P6), Pygmy_44 (P1), Shipwreck_44 (P1), Sonah_42 (P1), StevieRay_42 (P1), StressBall_42 (P1), Techage_42 (P1), Thespis_42 (P1), Venti_42 (P1), Vidya_42 (P1), Willsammy_41 (P1), Xeno_44 (N), Zilizebeth_42 (P1),

Start 5:
• Found in 6 of 66 (9.1%) of genes in pham
• Manual Annotations of this start: 6 of 60
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AuntGwenStacy_64 (Y), Bipper_61 (Y), Cracklewink_61 (Y), Faiyaz_64 (Y), Hilltopfarm_63 (Y), Typha_63 (Y),

Summary by clusters:

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

Info for manual annotations of cluster I1:
•Start number 4 was manually annotated 4 times for cluster I1.

Info for manual annotations of cluster I2:
•Start number 4 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster N:
•Start number 4 was manually annotated 2 times for cluster N.

Info for manual annotations of cluster P1:
•Start number 4 was manually annotated 44 times for cluster P1.

Info for manual annotations of cluster P4:
•Start number 4 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P6:
•Start number 4 was manually annotated 1 time for cluster P6.

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

Gene Information:

Gene: Arib1_42 Start: 31087, Stop: 31266, Start Num: 4
Candidate Starts for Arib1_42:
(Start: 4 @31087 has 54 MA's), (7, 31120), (12, 31192), (17, 31255),

Gene: Atcoo_42 Start: 31558, Stop: 31737, Start Num: 4
Candidate Starts for Atcoo_42:
(Start: 4 @31558 has 54 MA's), (7, 31591), (12, 31663), (16, 31720), (17, 31726),

Gene: AuntGwenStacy_64 Start: 44994, Stop: 45164, Start Num: 5
Candidate Starts for AuntGwenStacy_64:
(Start: 5 @44994 has 6 MA's), (7, 45015), (8, 45030), (13, 45096), (14, 45117),

Gene: Babsiella_44 Start: 31939, Stop: 32118, Start Num: 4
Candidate Starts for Babsiella_44:
(3, 31768), (Start: 4 @31939 has 54 MA's), (7, 31972), (12, 32044), (17, 32107),

Gene: Bartholomew_41 Start: 31081, Stop: 31260, Start Num: 4
Candidate Starts for Bartholomew_41:
(Start: 4 @31081 has 54 MA's), (7, 31114), (12, 31186), (17, 31249),

Gene: Bhagsy_42 Start: 31073, Stop: 31252, Start Num: 4
Candidate Starts for Bhagsy_42:
(Start: 4 @31073 has 54 MA's), (7, 31106), (12, 31178), (16, 31235), (17, 31241),

Gene: BigNuz_45 Start: 33157, Stop: 33330, Start Num: 4
Candidate Starts for BigNuz_45:
(Start: 4 @33157 has 54 MA's), (7, 33184),

Gene: Bipper_61 Start: 43465, Stop: 43635, Start Num: 5
Candidate Starts for Bipper_61:
(Start: 5 @43465 has 6 MA's), (7, 43486), (9, 43516), (11, 43528), (13, 43567),

Gene: Bogie_44 Start: 32848, Stop: 33027, Start Num: 4
Candidate Starts for Bogie_44:
(Start: 4 @32848 has 54 MA's), (7, 32881), (12, 32953), (17, 33016),

Gene: BronnyJr_42 Start: 31578, Stop: 31757, Start Num: 4

Candidate Starts for BronnyJr_42:
(Start: 4 @31578 has 54 MA's), (7, 31611), (12, 31683), (17, 31746),

Gene: Brujita_43 Start: 32747, Stop: 32926, Start Num: 4
Candidate Starts for Brujita_43:
(Start: 4 @32747 has 54 MA's), (7, 32780), (12, 32852), (17, 32915),

Gene: Brusacoram_42 Start: 31064, Stop: 31243, Start Num: 4
Candidate Starts for Brusacoram_42:
(Start: 4 @31064 has 54 MA's), (7, 31097), (12, 31169), (16, 31226), (17, 31232),

Gene: Bunnies_42 Start: 31088, Stop: 31267, Start Num: 4
Candidate Starts for Bunnies_42:
(Start: 4 @31088 has 54 MA's), (7, 31121), (12, 31193), (17, 31256),

Gene: CactusJack_42 Start: 31328, Stop: 31507, Start Num: 4
Candidate Starts for CactusJack_42:
(Start: 4 @31328 has 54 MA's), (7, 31361), (12, 31433), (16, 31490), (17, 31496),

Gene: Camster_42 Start: 31095, Stop: 31274, Start Num: 4
Candidate Starts for Camster_42:
(Start: 4 @31095 has 54 MA's), (7, 31128), (12, 31200), (17, 31263),

Gene: Che9c_57 Start: 42169, Stop: 42339, Start Num: 4
Candidate Starts for Che9c_57:
(1, 41866), (2, 41878), (Start: 4 @42169 has 54 MA's), (6, 42184), (15, 42301), (17, 42328),

Gene: Chubbello_42 Start: 31077, Stop: 31256, Start Num: 4
Candidate Starts for Chubbello_42:
(Start: 4 @31077 has 54 MA's), (7, 31110), (12, 31182), (17, 31245),

Gene: Cracklewink_61 Start: 43446, Stop: 43616, Start Num: 5
Candidate Starts for Cracklewink_61:
(Start: 5 @43446 has 6 MA's), (7, 43467), (9, 43497), (11, 43509), (13, 43548),

Gene: Donovan_42 Start: 31104, Stop: 31283, Start Num: 4
Candidate Starts for Donovan_42:
(Start: 4 @31104 has 54 MA's), (7, 31137), (12, 31209), (17, 31272),

Gene: Dynamo_42 Start: 31489, Stop: 31668, Start Num: 4
Candidate Starts for Dynamo_42:
(Start: 4 @31489 has 54 MA's), (7, 31522), (12, 31594), (17, 31657),

Gene: Etoile_42 Start: 31081, Stop: 31260, Start Num: 4
Candidate Starts for Etoile_42:
(Start: 4 @31081 has 54 MA's), (7, 31114), (12, 31186), (17, 31249),

Gene: Faiyaz_64 Start: 44984, Stop: 45154, Start Num: 5
Candidate Starts for Faiyaz_64:
(Start: 5 @44984 has 6 MA's), (7, 45005), (8, 45020), (13, 45086), (14, 45107),

Gene: FirstPlacePfu_42 Start: 31113, Stop: 31292, Start Num: 4
Candidate Starts for FirstPlacePfu_42:

(Start: 4 @31113 has 54 MA's), (7, 31146), (12, 31218), (17, 31281),

Gene: Fishburne_42 Start: 31081, Stop: 31260, Start Num: 4
Candidate Starts for Fishburne_42:
(Start: 4 @31081 has 54 MA's), (7, 31114), (12, 31186), (17, 31249),

Gene: GaloreK_42 Start: 31077, Stop: 31256, Start Num: 4
Candidate Starts for GaloreK_42:
(Start: 4 @31077 has 54 MA's), (7, 31110), (12, 31182), (17, 31245),

Gene: Gavriela_42 Start: 31328, Stop: 31507, Start Num: 4
Candidate Starts for Gavriela_42:
(Start: 4 @31328 has 54 MA's), (7, 31361), (12, 31433), (16, 31490), (17, 31496),

Gene: Glaske_42 Start: 31328, Stop: 31507, Start Num: 4
Candidate Starts for Glaske_42:
(Start: 4 @31328 has 54 MA's), (7, 31361), (12, 31433), (16, 31490), (17, 31496),

Gene: GreaseLightnin_42 Start: 31317, Stop: 31496, Start Num: 4
Candidate Starts for GreaseLightnin_42:
(Start: 4 @31317 has 54 MA's), (7, 31350), (12, 31422), (16, 31479), (17, 31485),

Gene: HC_42 Start: 30720, Stop: 30899, Start Num: 4
Candidate Starts for HC_42:
(3, 30549), (Start: 4 @30720 has 54 MA's), (7, 30753), (12, 30825), (17, 30888),

Gene: HUHilltop_42 Start: 31105, Stop: 31284, Start Num: 4
Candidate Starts for HUHilltop_42:
(Start: 4 @31105 has 54 MA's), (7, 31138), (12, 31210), (17, 31273),

Gene: Hilltopfarm_63 Start: 44686, Stop: 44856, Start Num: 5
Candidate Starts for Hilltopfarm_63:
(Start: 5 @44686 has 6 MA's), (7, 44707), (8, 44722), (13, 44788), (14, 44809),

Gene: Island3_43 Start: 32747, Stop: 32926, Start Num: 4
Candidate Starts for Island3_43:
(Start: 4 @32747 has 54 MA's), (7, 32780), (12, 32852), (17, 32915),

Gene: Jebeks_43 Start: 31066, Stop: 31245, Start Num: 4
Candidate Starts for Jebeks_43:
(Start: 4 @31066 has 54 MA's), (7, 31099), (12, 31171), (17, 31234),

Gene: Jung_41 Start: 31035, Stop: 31214, Start Num: 4
Candidate Starts for Jung_41:
(Start: 4 @31035 has 54 MA's), (7, 31068), (12, 31140), (17, 31203),

Gene: Juniormint_42 Start: 31110, Stop: 31289, Start Num: 4
Candidate Starts for Juniormint_42:
(Start: 4 @31110 has 54 MA's), (7, 31143), (12, 31215), (17, 31278),

Gene: Kari_42 Start: 31078, Stop: 31257, Start Num: 4
Candidate Starts for Kari_42:
(Start: 4 @31078 has 54 MA's), (7, 31111), (12, 31183), (17, 31246),

Gene: KilKor_42 Start: 31328, Stop: 31507, Start Num: 4
Candidate Starts for KilKor_42:
(Start: 4 @31328 has 54 MA's), (7, 31361), (12, 31433), (16, 31490), (17, 31496),

Gene: Ksquared_42 Start: 31088, Stop: 31267, Start Num: 4
Candidate Starts for Ksquared_42:
(Start: 4 @31088 has 54 MA's), (7, 31121), (12, 31193), (17, 31256),

Gene: Langerak_42 Start: 31097, Stop: 31276, Start Num: 4
Candidate Starts for Langerak_42:
(Start: 4 @31097 has 54 MA's), (7, 31130), (12, 31202), (17, 31265),

Gene: Majeke_42 Start: 31122, Stop: 31301, Start Num: 4
Candidate Starts for Majeke_42:
(Start: 4 @31122 has 54 MA's), (7, 31155), (12, 31227), (17, 31290),

Gene: Malithi_42 Start: 30997, Stop: 31176, Start Num: 4
Candidate Starts for Malithi_42:
(Start: 4 @30997 has 54 MA's), (7, 31030), (12, 31102), (17, 31165),

Gene: Mangethe_42 Start: 31122, Stop: 31301, Start Num: 4
Candidate Starts for Mangethe_42:
(Start: 4 @31122 has 54 MA's), (7, 31155), (12, 31227), (17, 31290),

Gene: Megiddo_42 Start: 31328, Stop: 31507, Start Num: 4
Candidate Starts for Megiddo_42:
(Start: 4 @31328 has 54 MA's), (7, 31361), (12, 31433), (16, 31490), (17, 31496),

Gene: Nazo_46 Start: 33354, Stop: 33527, Start Num: 4
Candidate Starts for Nazo_46:
(Start: 4 @33354 has 54 MA's), (7, 33381),

Gene: Necropolis_42 Start: 31078, Stop: 31257, Start Num: 4
Candidate Starts for Necropolis_42:
(Start: 4 @31078 has 54 MA's), (7, 31111), (12, 31183), (17, 31246),

Gene: PaintedDog_49 Start: 33907, Stop: 34074, Start Num: 4
Candidate Starts for PaintedDog_49:
(Start: 4 @33907 has 54 MA's), (10, 33964), (12, 34000), (17, 34063),

Gene: PeanutPie_42 Start: 31073, Stop: 31252, Start Num: 4
Candidate Starts for PeanutPie_42:
(Start: 4 @31073 has 54 MA's), (7, 31106), (12, 31178), (16, 31235), (17, 31241),

Gene: Phalm_42 Start: 31328, Stop: 31507, Start Num: 4
Candidate Starts for Phalm_42:
(Start: 4 @31328 has 54 MA's), (7, 31361), (12, 31433), (16, 31490), (17, 31496),

Gene: Phegasus_42 Start: 31089, Stop: 31268, Start Num: 4
Candidate Starts for Phegasus_42:
(Start: 4 @31089 has 54 MA's), (7, 31122), (12, 31194), (17, 31257),

Gene: Philonius_44 Start: 30180, Stop: 30359, Start Num: 4
Candidate Starts for Philonius_44:
(Start: 4 @30180 has 54 MA's), (7, 30213), (12, 30285), (16, 30342), (17, 30348),

Gene: Phineas_42 Start: 31440, Stop: 31619, Start Num: 4
Candidate Starts for Phineas_42:
(Start: 4 @31440 has 54 MA's), (7, 31473), (12, 31545), (17, 31608),

Gene: Polkaroo_42 Start: 31085, Stop: 31264, Start Num: 4
Candidate Starts for Polkaroo_42:
(Start: 4 @31085 has 54 MA's), (7, 31118), (12, 31190), (17, 31253),

Gene: Purky_48 Start: 33570, Stop: 33740, Start Num: 4
Candidate Starts for Purky_48:
(Start: 4 @33570 has 54 MA's), (6, 33585), (15, 33702), (17, 33729),

Gene: Pygmy_44 Start: 32904, Stop: 33083, Start Num: 4
Candidate Starts for Pygmy_44:
(Start: 4 @32904 has 54 MA's), (7, 32937), (12, 33009), (17, 33072),

Gene: Shipwreck_44 Start: 32879, Stop: 33058, Start Num: 4
Candidate Starts for Shipwreck_44:
(Start: 4 @32879 has 54 MA's), (7, 32912), (12, 32984), (17, 33047),

Gene: Sonah_42 Start: 31067, Stop: 31246, Start Num: 4
Candidate Starts for Sonah_42:
(Start: 4 @31067 has 54 MA's), (7, 31100), (12, 31172), (17, 31235),

Gene: StevieRay_42 Start: 31030, Stop: 31209, Start Num: 4
Candidate Starts for StevieRay_42:
(Start: 4 @31030 has 54 MA's), (7, 31063), (12, 31135), (16, 31192), (17, 31198),

Gene: StressBall_42 Start: 31328, Stop: 31507, Start Num: 4
Candidate Starts for StressBall_42:
(Start: 4 @31328 has 54 MA's), (7, 31361), (12, 31433), (16, 31490), (17, 31496),

Gene: Techage_42 Start: 31107, Stop: 31286, Start Num: 4
Candidate Starts for Techage_42:
(Start: 4 @31107 has 54 MA's), (7, 31140), (12, 31212), (17, 31275),

Gene: Thespis_42 Start: 31064, Stop: 31243, Start Num: 4
Candidate Starts for Thespis_42:
(Start: 4 @31064 has 54 MA's), (7, 31097), (12, 31169), (16, 31226), (17, 31232),

Gene: Typha_63 Start: 44994, Stop: 45164, Start Num: 5
Candidate Starts for Typha_63:
(Start: 5 @44994 has 6 MA's), (7, 45015), (8, 45030), (13, 45096), (14, 45117),

Gene: Venti_42 Start: 31081, Stop: 31260, Start Num: 4
Candidate Starts for Venti_42:
(Start: 4 @31081 has 54 MA's), (7, 31114), (12, 31186), (17, 31249),

Gene: Vidya_42 Start: 31114, Stop: 31293, Start Num: 4

Candidate Starts for Vidya_42:
(Start: 4 @31114 has 54 MA's), (7, 31147), (12, 31219), (17, 31282),

Gene: Willsammy_41 Start: 30811, Stop: 30990, Start Num: 4
Candidate Starts for Willsammy_41:
(Start: 4 @30811 has 54 MA's), (7, 30844), (12, 30916), (16, 30973), (17, 30979),

Gene: Xeno_44 Start: 30406, Stop: 30585, Start Num: 4
Candidate Starts for Xeno_44:
(Start: 4 @30406 has 54 MA's), (7, 30439), (12, 30511), (16, 30568), (17, 30574),

Gene: Zilizebeth_42 Start: 31113, Stop: 31292, Start Num: 4
Candidate Starts for Zilizebeth_42:
(Start: 4 @31113 has 54 MA's), (7, 31146), (12, 31218), (17, 31281),