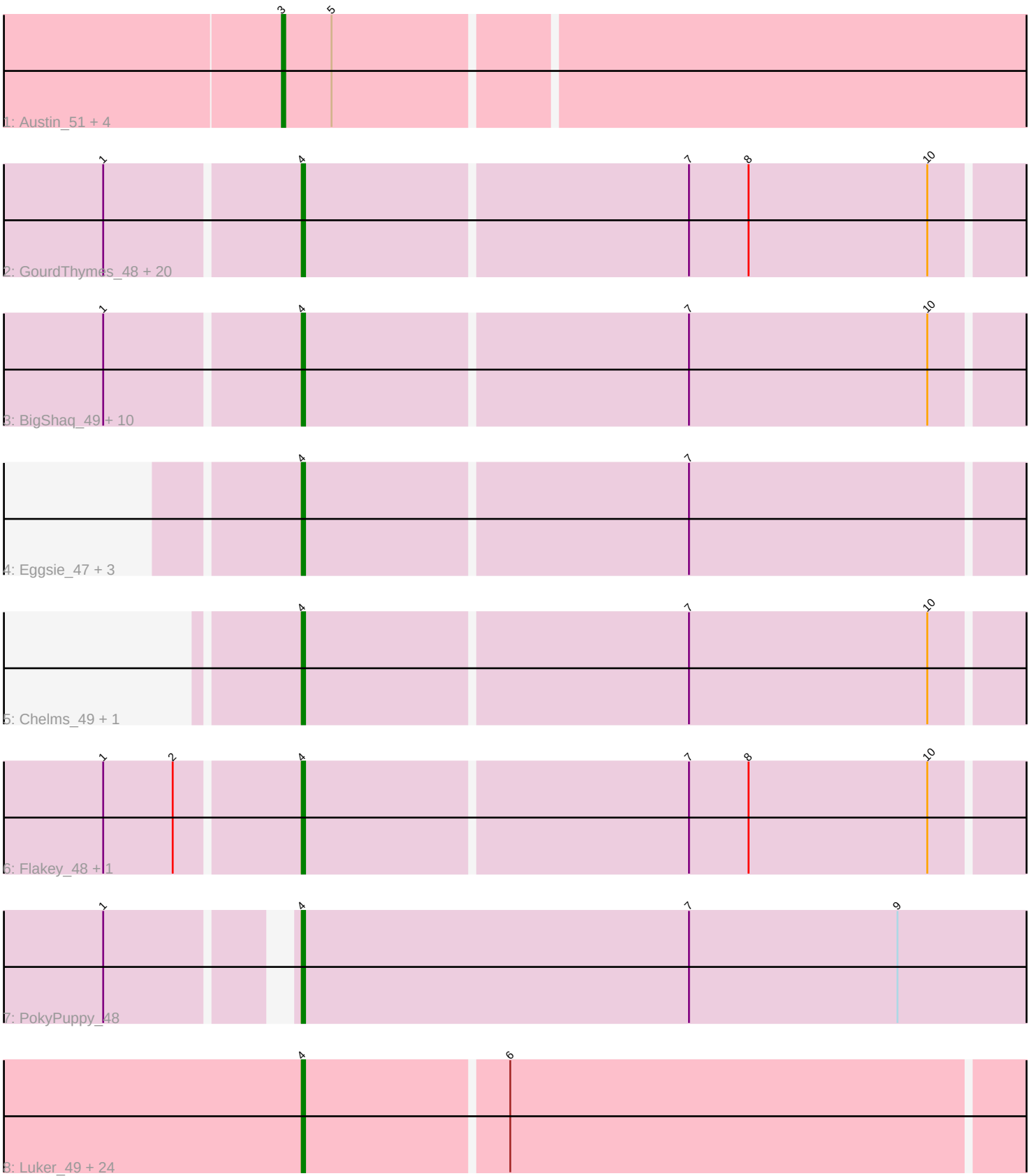
Pham 334780


3
5
1: Austin_51 + 4
1
4
7
8
10
2: GourdThymes_48 + 20
1
4
7
10
3: BigShaq_49 + 10
4
7
4: Eggsie_47 + 3
4
7
10
5: Chelms_49 + 1
1
2
4
7
8
10
6: Flakey_48 + 1
1
4
7
9
7: PokyPuppy_48
4
6
8: Luker_49 + 24

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 334780 Report

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

Pham number 334780 has 71 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Austin_51, GMA7_40, GTE7_39, Amore2_51, HayZem_50
• Track 2 : GourdThymes_48, Kelzog_50, Gorko_48, Barbochs_47, BirksAndSocks_53, Ekhein_49, Jellybones_51, Lizzo_48, John316_52, Worcestershire_48, Hotorobo_48, CathyBurgh_48, Poland_53, Beaver_52, Adgers_50, Exiguo_48, Msay19_53, Monty_47, RemRem_49, Breezic_48, Sam12_48
• Track 3 : BigShaq_49, Boneham_52, BenoitCattle_50, CinnamonToast_54, BillyBobJr_54, Crete_50, FelixAlejandro_53, Sombrero_49, PierreThree_49, Linetti_50, Butterball_52
• Track 4 : Eggsie_47, Diabla_52, SteveFrench_48, RoyalG_49
• Track 5 : Chelms_49, Dakiti_50
• Track 6 : Flakey_48, Squibbles_48
• Track 7 : PokyPuppy_48
• Track 8 : Luker_49, Jams_48, Anamika_48, Hail2Pitt_47, Lahirium_48, Kaseim_48, Bianmat_48, Charianelly_48, Sticker17_48, Minos_49, Lidong_48, Jormungandr_48, Nimi13_48, Damp_48, Shelley_48, Woes_48, Teal_48, GalacticEye_48, MrWormie_48, Berries_48, Neoevie_48, Hello_48, Guillaume_48, Harambe_48, Newt_49

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 63 of the 66 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adgers_50, Anamika_48, Barbochs_47, Beaver_52, BenoitCattle_50, Berries_48, Bianmat_48, BigShaq_49, BillyBobJr_54, BirksAndSocks_53, Boneham_52, Breezic_48, Butterball_52, CathyBurgh_48, Charianelly_48, Chelms_49, CinnamonToast_54, Crete_50, Dakiti_50, Damp_48, Diabla_52, Eggsie_47, Ekhein_49, Exiguo_48, FelixAlejandro_53, Flakey_48, GalacticEye_48, Gorko_48, GourdThymes_48, Guillaume_48, Hail2Pitt_47, Harambe_48, Hello_48, Hotorobo_48, Jams_48, Jellybones_51, John316_52, Jormungandr_48, Kaseim_48, Kelzog_50, Lahirium_48, Lidong_48, Linetti_50, Lizzo_48, Luker_49, Minos_49, Monty_47, MrWormie_48, Msay19_53, Neoevie_48, Newt_49, Nimi13_48,

PierreThree_49, PokyPuppy_48, Poland_53, RemRem_49, RoyalG_49, Sam12_48, Shelley_48, Sombrero_49, Squibbles_48, SteveFrench_48, Sticker17_48, Teal_48, Woes_48, Worcestershire_48,

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

Genes that do not have the "Most Annotated" start:
• Amore2_51, Austin_51, GMA7_40, GTE7_39, HayZem_50,

Summary by start number:

Start 3:
• Found in 5 of 71 (7.0%) of genes in pham
• Manual Annotations of this start: 3 of 66
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amore2_51 (CS1), Austin_51 (CS1), GMA7_40 (CS1), GTE7_39 (CS1), HayZem_50 (CS1),

Start 4:
• Found in 66 of 71 (93.0%) of genes in pham
• Manual Annotations of this start: 63 of 66
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adgers_50 (CS2), Anamika_48 (CS3), Barbochs_47 (CS2), Beaver_52 (CS2), BenoitCattle_50 (CS2), Berries_48 (CS3), Bianmat_48 (CS3), BigShaq_49 (CS2), BillyBobJr_54 (CS2), BirksAndSocks_53 (CS2), Boneham_52 (CS2), Breezic_48 (CS2), Butterball_52 (CS2), CathyBurgh_48 (CS2), Charianelly_48 (CS3), Chelms_49 (CS2), CinnamonToast_54 (CS2), Crete_50 (CS2), Dakiti_50 (CS2), Damp_48 (CS3), Diabla_52 (CS2), Eggsie_47 (CS2), Ekhein_49 (CS2), Exiguo_48 (CS2), FelixAlejandro_53 (CS2), Flakey_48 (CS2), GalacticEye_48 (CS3), Gorko_48 (CS2), GourdThymes_48 (CS2), Guillaume_48 (CS3), Hail2Pitt_47 (CS3), Harambe_48 (CS3), Hello_48 (CS3), Hotorobo_48 (CS2), Jams_48 (CS3), Jellybones_51 (CS2), John316_52 (CS2), Jormungandr_48 (CS3), Kaseim_48 (CS3), Kelzog_50 (CS2), Lahirium_48 (CS3), Lidong_48 (CS3), Linetti_50 (CS2), Lizzo_48 (CS2), Luker_49 (CS3), Minos_49 (CS3), Monty_47 (CS2), MrWormie_48 (CS3), Msay19_53 (CS2), Neoevie_48 (CS3), Newt_49 (CS3), Nimi13_48 (CS3), PierreThree_49 (CS2), PokyPuppy_48 (CS2), Poland_53 (CS2), RemRem_49 (CS2), RoyalG_49 (CS2), Sam12_48 (CS2), Shelley_48 (CS3), Sombrero_49 (CS2), Squibbles_48 (CS2), SteveFrench_48 (CS2), Sticker17_48 (CS3), Teal_48 (CS3), Woes_48 (CS3), Worcestershire_48 (CS2),

Summary by clusters:

There are 3 clusters represented in this pham: CS1, CS3, CS2,

Info for manual annotations of cluster CS1:
•Start number 3 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:
•Start number 4 was manually annotated 38 times for cluster CS2.

Info for manual annotations of cluster CS3:
•Start number 4 was manually annotated 25 times for cluster CS3.

Gene Information:

Gene: Adgers_50 Start: 45394, Stop: 45167, Start Num: 4
Candidate Starts for Adgers_50:
(1, 45451), (Start: 4 @45394 has 63 MA's), (7, 45280), (8, 45262), (10, 45208),

Gene: Amore2_51 Start: 45786, Stop: 45553, Start Num: 3
Candidate Starts for Amore2_51:
(Start: 3 @45786 has 3 MA's), (5, 45771),

Gene: Anamika_48 Start: 47321, Stop: 47094, Start Num: 4
Candidate Starts for Anamika_48:
(Start: 4 @47321 has 63 MA's), (6, 47261),

Gene: Austin_51 Start: 45786, Stop: 45553, Start Num: 3
Candidate Starts for Austin_51:
(Start: 3 @45786 has 3 MA's), (5, 45771),

Gene: Barbochs_47 Start: 45138, Stop: 44911, Start Num: 4
Candidate Starts for Barbochs_47:
(1, 45195), (Start: 4 @45138 has 63 MA's), (7, 45024), (8, 45006), (10, 44952),

Gene: Beaver_52 Start: 46908, Stop: 46681, Start Num: 4
Candidate Starts for Beaver_52:
(1, 46965), (Start: 4 @46908 has 63 MA's), (7, 46794), (8, 46776), (10, 46722),

Gene: BenoitCattle_50 Start: 45655, Stop: 45428, Start Num: 4
Candidate Starts for BenoitCattle_50:
(1, 45712), (Start: 4 @45655 has 63 MA's), (7, 45541), (10, 45469),

Gene: Berries_48 Start: 47293, Stop: 47066, Start Num: 4
Candidate Starts for Berries_48:
(Start: 4 @47293 has 63 MA's), (6, 47233),

Gene: Bianmat_48 Start: 47333, Stop: 47106, Start Num: 4
Candidate Starts for Bianmat_48:
(Start: 4 @47333 has 63 MA's), (6, 47273),

Gene: BigShaq_49 Start: 45660, Stop: 45433, Start Num: 4
Candidate Starts for BigShaq_49:
(1, 45717), (Start: 4 @45660 has 63 MA's), (7, 45546), (10, 45474),

Gene: BillyBobJr_54 Start: 47221, Stop: 46994, Start Num: 4
Candidate Starts for BillyBobJr_54:
(1, 47278), (Start: 4 @47221 has 63 MA's), (7, 47107), (10, 47035),

Gene: BirksAndSocks_53 Start: 47258, Stop: 47031, Start Num: 4
Candidate Starts for BirksAndSocks_53:
(1, 47315), (Start: 4 @47258 has 63 MA's), (7, 47144), (8, 47126), (10, 47072),

Gene: Boneham_52 Start: 47162, Stop: 46935, Start Num: 4
Candidate Starts for Boneham_52:
(1, 47219), (Start: 4 @47162 has 63 MA's), (7, 47048), (10, 46976),

Gene: Breezic_48 Start: 45151, Stop: 44924, Start Num: 4
Candidate Starts for Breezic_48:
(1, 45208), (Start: 4 @45151 has 63 MA's), (7, 45037), (8, 45019), (10, 44965),

Gene: Butterball_52 Start: 47167, Stop: 46940, Start Num: 4
Candidate Starts for Butterball_52:
(1, 47224), (Start: 4 @47167 has 63 MA's), (7, 47053), (10, 46981),

Gene: CathyBurgh_48 Start: 45728, Stop: 45501, Start Num: 4
Candidate Starts for CathyBurgh_48:
(1, 45785), (Start: 4 @45728 has 63 MA's), (7, 45614), (8, 45596), (10, 45542),

Gene: Charianelly_48 Start: 47043, Stop: 46816, Start Num: 4
Candidate Starts for Charianelly_48:
(Start: 4 @47043 has 63 MA's), (6, 46983),

Gene: Chelms_49 Start: 45660, Stop: 45433, Start Num: 4
Candidate Starts for Chelms_49:
(Start: 4 @45660 has 63 MA's), (7, 45546), (10, 45474),

Gene: CinnamonToast_54 Start: 47221, Stop: 46994, Start Num: 4
Candidate Starts for CinnamonToast_54:
(1, 47278), (Start: 4 @47221 has 63 MA's), (7, 47107), (10, 47035),

Gene: Crete_50 Start: 45926, Stop: 45699, Start Num: 4
Candidate Starts for Crete_50:
(1, 45983), (Start: 4 @45926 has 63 MA's), (7, 45812), (10, 45740),

Gene: Dakiti_50 Start: 46528, Stop: 46301, Start Num: 4
Candidate Starts for Dakiti_50:
(Start: 4 @46528 has 63 MA's), (7, 46414), (10, 46342),

Gene: Damp_48 Start: 46207, Stop: 45980, Start Num: 4
Candidate Starts for Damp_48:
(Start: 4 @46207 has 63 MA's), (6, 46147),

Gene: Diabla_52 Start: 47092, Stop: 46865, Start Num: 4
Candidate Starts for Diabla_52:
(Start: 4 @47092 has 63 MA's), (7, 46978),

Gene: Eggsie_47 Start: 45054, Stop: 44827, Start Num: 4
Candidate Starts for Eggsie_47:
(Start: 4 @45054 has 63 MA's), (7, 44940),

Gene: Ekhein_49 Start: 44856, Stop: 44629, Start Num: 4
Candidate Starts for Ekhein_49:
(1, 44913), (Start: 4 @44856 has 63 MA's), (7, 44742), (8, 44724), (10, 44670),

Gene: Exiguo_48 Start: 44868, Stop: 44641, Start Num: 4

Candidate Starts for Exiguo_48:
(1, 44925), (Start: 4 @44868 has 63 MA's), (7, 44754), (8, 44736), (10, 44682),

Gene: FelixAlejandro_53 Start: 47365, Stop: 47138, Start Num: 4
Candidate Starts for FelixAlejandro_53:
(1, 47422), (Start: 4 @47365 has 63 MA's), (7, 47251), (10, 47179),

Gene: Flakey_48 Start: 45732, Stop: 45505, Start Num: 4
Candidate Starts for Flakey_48:
(1, 45789), (2, 45768), (Start: 4 @45732 has 63 MA's), (7, 45618), (8, 45600), (10, 45546),

Gene: GMA7_40 Start: 40000, Stop: 39767, Start Num: 3
Candidate Starts for GMA7_40:
(Start: 3 @40000 has 3 MA's), (5, 39985),

Gene: GTE7_39 Start: 40031, Stop: 39798, Start Num: 3
Candidate Starts for GTE7_39:
(Start: 3 @40031 has 3 MA's), (5, 40016),

Gene: GalacticEye_48 Start: 47004, Stop: 46777, Start Num: 4
Candidate Starts for GalacticEye_48:
(Start: 4 @47004 has 63 MA's), (6, 46944),

Gene: Gorko_48 Start: 44860, Stop: 44633, Start Num: 4
Candidate Starts for Gorko_48:
(1, 44917), (Start: 4 @44860 has 63 MA's), (7, 44746), (8, 44728), (10, 44674),

Gene: GourdThymes_48 Start: 45734, Stop: 45507, Start Num: 4
Candidate Starts for GourdThymes_48:
(1, 45791), (Start: 4 @45734 has 63 MA's), (7, 45620), (8, 45602), (10, 45548),

Gene: Guillaume_48 Start: 47054, Stop: 46827, Start Num: 4
Candidate Starts for Guillaume_48:
(Start: 4 @47054 has 63 MA's), (6, 46994),

Gene: Hail2Pitt_47 Start: 47530, Stop: 47303, Start Num: 4
Candidate Starts for Hail2Pitt_47:
(Start: 4 @47530 has 63 MA's), (6, 47470),

Gene: Harambe_48 Start: 47321, Stop: 47094, Start Num: 4
Candidate Starts for Harambe_48:
(Start: 4 @47321 has 63 MA's), (6, 47261),

Gene: HayZem_50 Start: 45783, Stop: 45550, Start Num: 3
Candidate Starts for HayZem_50:
(Start: 3 @45783 has 3 MA's), (5, 45768),

Gene: Hello_48 Start: 47283, Stop: 47056, Start Num: 4
Candidate Starts for Hello_48:
(Start: 4 @47283 has 63 MA's), (6, 47223),

Gene: Hotorobo_48 Start: 45739, Stop: 45512, Start Num: 4
Candidate Starts for Hotorobo_48:

(1, 45796), (Start: 4 @45739 has 63 MA's), (7, 45625), (8, 45607), (10, 45553),

Gene: Jams_48 Start: 46493, Stop: 46266, Start Num: 4
Candidate Starts for Jams_48:
(Start: 4 @46493 has 63 MA's), (6, 46433),

Gene: Jellybones_51 Start: 46843, Stop: 46616, Start Num: 4
Candidate Starts for Jellybones_51:
(1, 46900), (Start: 4 @46843 has 63 MA's), (7, 46729), (8, 46711), (10, 46657),

Gene: John316_52 Start: 46897, Stop: 46670, Start Num: 4
Candidate Starts for John316_52:
(1, 46954), (Start: 4 @46897 has 63 MA's), (7, 46783), (8, 46765), (10, 46711),

Gene: Jormungandr_48 Start: 47036, Stop: 46809, Start Num: 4
Candidate Starts for Jormungandr_48:
(Start: 4 @47036 has 63 MA's), (6, 46976),

Gene: Kaseim_48 Start: 46478, Stop: 46251, Start Num: 4
Candidate Starts for Kaseim_48:
(Start: 4 @46478 has 63 MA's), (6, 46418),

Gene: Kelzog_50 Start: 45746, Stop: 45519, Start Num: 4
Candidate Starts for Kelzog_50:
(1, 45803), (Start: 4 @45746 has 63 MA's), (7, 45632), (8, 45614), (10, 45560),

Gene: Lahirium_48 Start: 47558, Stop: 47331, Start Num: 4
Candidate Starts for Lahirium_48:
(Start: 4 @47558 has 63 MA's), (6, 47498),

Gene: Lidong_48 Start: 47293, Stop: 47066, Start Num: 4
Candidate Starts for Lidong_48:
(Start: 4 @47293 has 63 MA's), (6, 47233),

Gene: Linetti_50 Start: 46669, Stop: 46442, Start Num: 4
Candidate Starts for Linetti_50:
(1, 46726), (Start: 4 @46669 has 63 MA's), (7, 46555), (10, 46483),

Gene: Lizzo_48 Start: 45728, Stop: 45501, Start Num: 4
Candidate Starts for Lizzo_48:
(1, 45785), (Start: 4 @45728 has 63 MA's), (7, 45614), (8, 45596), (10, 45542),

Gene: Luker_49 Start: 47511, Stop: 47284, Start Num: 4
Candidate Starts for Luker_49:
(Start: 4 @47511 has 63 MA's), (6, 47451),

Gene: Minos_49 Start: 47035, Stop: 46808, Start Num: 4
Candidate Starts for Minos_49:
(Start: 4 @47035 has 63 MA's), (6, 46975),

Gene: Monty_47 Start: 44878, Stop: 44651, Start Num: 4
Candidate Starts for Monty_47:
(1, 44935), (Start: 4 @44878 has 63 MA's), (7, 44764), (8, 44746), (10, 44692),

Gene: MrWormie_48 Start: 46196, Stop: 45969, Start Num: 4
Candidate Starts for MrWormie_48:
(Start: 4 @46196 has 63 MA's), (6, 46136),

Gene: Msay19_53 Start: 47351, Stop: 47124, Start Num: 4
Candidate Starts for Msay19_53:
(1, 47408), (Start: 4 @47351 has 63 MA's), (7, 47237), (8, 47219), (10, 47165),

Gene: Neoevie_48 Start: 47297, Stop: 47070, Start Num: 4
Candidate Starts for Neoevie_48:
(Start: 4 @47297 has 63 MA's), (6, 47237),

Gene: Newt_49 Start: 47525, Stop: 47298, Start Num: 4
Candidate Starts for Newt_49:
(Start: 4 @47525 has 63 MA's), (6, 47465),

Gene: Nimi13_48 Start: 47044, Stop: 46817, Start Num: 4
Candidate Starts for Nimi13_48:
(Start: 4 @47044 has 63 MA's), (6, 46984),

Gene: PierreThree_49 Start: 46406, Stop: 46179, Start Num: 4
Candidate Starts for PierreThree_49:
(1, 46463), (Start: 4 @46406 has 63 MA's), (7, 46292), (10, 46220),

Gene: PokyPuppy_48 Start: 46364, Stop: 46131, Start Num: 4
Candidate Starts for PokyPuppy_48:
(1, 46412), (Start: 4 @46364 has 63 MA's), (7, 46247), (9, 46184),

Gene: Poland_53 Start: 47330, Stop: 47103, Start Num: 4
Candidate Starts for Poland_53:
(1, 47387), (Start: 4 @47330 has 63 MA's), (7, 47216), (8, 47198), (10, 47144),

Gene: RemRem_49 Start: 44868, Stop: 44641, Start Num: 4
Candidate Starts for RemRem_49:
(1, 44925), (Start: 4 @44868 has 63 MA's), (7, 44754), (8, 44736), (10, 44682),

Gene: RoyalG_49 Start: 45703, Stop: 45476, Start Num: 4
Candidate Starts for RoyalG_49:
(Start: 4 @45703 has 63 MA's), (7, 45589),

Gene: Sam12_48 Start: 44868, Stop: 44641, Start Num: 4
Candidate Starts for Sam12_48:
(1, 44925), (Start: 4 @44868 has 63 MA's), (7, 44754), (8, 44736), (10, 44682),

Gene: Shelley_48 Start: 46520, Stop: 46293, Start Num: 4
Candidate Starts for Shelley_48:
(Start: 4 @46520 has 63 MA's), (6, 46460),

Gene: Sombrero_49 Start: 45244, Stop: 45017, Start Num: 4
Candidate Starts for Sombrero_49:
(1, 45301), (Start: 4 @45244 has 63 MA's), (7, 45130), (10, 45058),

Gene: Squibbles_48 Start: 45731, Stop: 45504, Start Num: 4
Candidate Starts for Squibbles_48:
(1, 45788), (2, 45767), (Start: 4 @45731 has 63 MA's), (7, 45617), (8, 45599), (10, 45545),

Gene: SteveFrench_48 Start: 45943, Stop: 45716, Start Num: 4
Candidate Starts for SteveFrench_48:
(Start: 4 @45943 has 63 MA's), (7, 45829),

Gene: Sticker17_48 Start: 47035, Stop: 46808, Start Num: 4
Candidate Starts for Sticker17_48:
(Start: 4 @47035 has 63 MA's), (6, 46975),

Gene: Teal_48 Start: 47502, Stop: 47275, Start Num: 4
Candidate Starts for Teal_48:
(Start: 4 @47502 has 63 MA's), (6, 47442),

Gene: Woes_48 Start: 47553, Stop: 47326, Start Num: 4
Candidate Starts for Woes_48:
(Start: 4 @47553 has 63 MA's), (6, 47493),

Gene: Worcestershire_48 Start: 44870, Stop: 44643, Start Num: 4
Candidate Starts for Worcestershire_48:
(1, 44927), (Start: 4 @44870 has 63 MA's), (7, 44756), (8, 44738), (10, 44684),