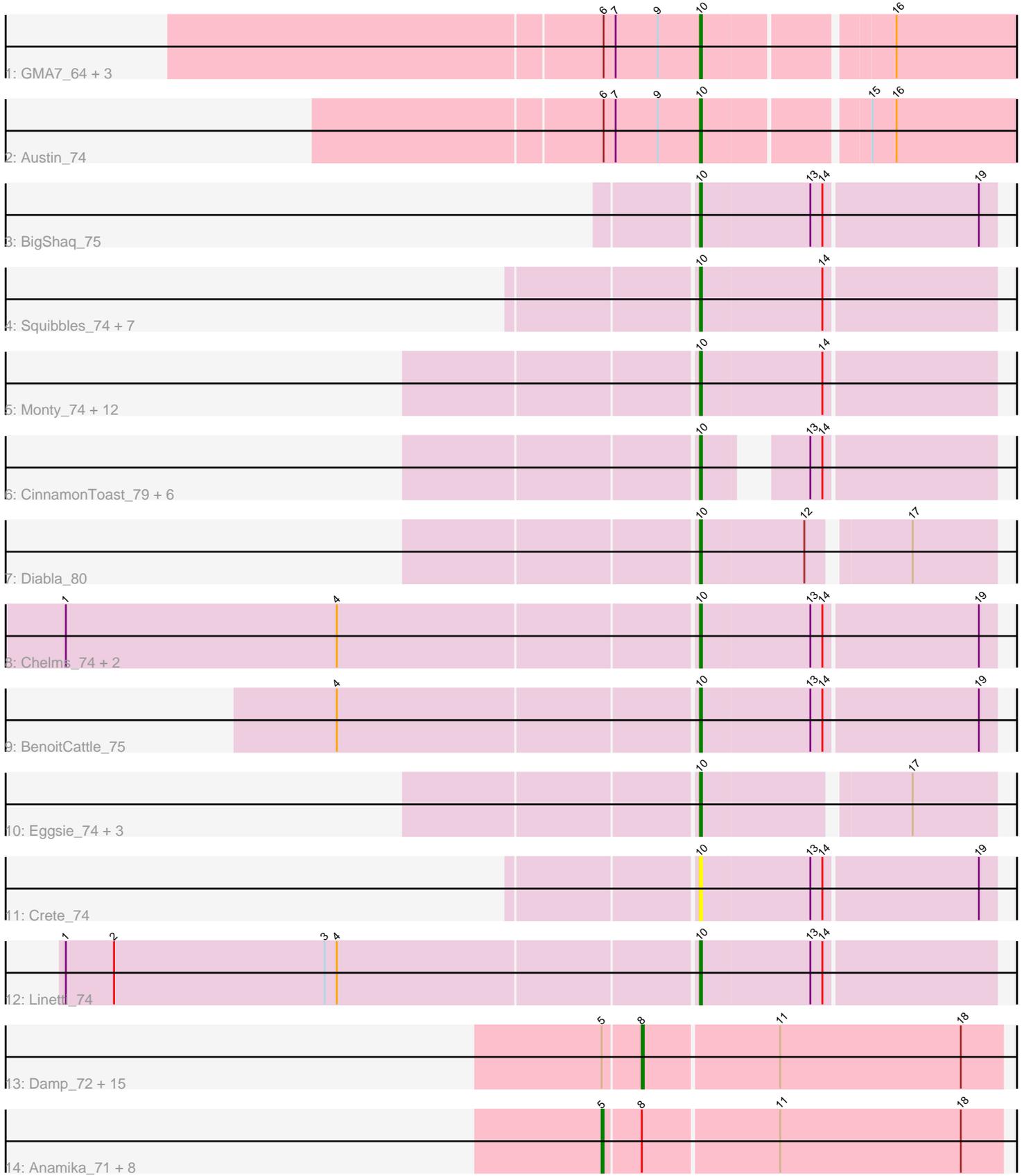


Pham 291136



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 291136 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291136 has 70 members, 7 are drafts.

Phages represented in each track:

- Track 1 : GMA7_64, GTE7_63, HayZem_75, Amore2_75
- Track 2 : Austin_74
- Track 3 : BigShaq_75
- Track 4 : Squibbles_74, CathyBurgh_75, Flakey_74, Lizzo_75, GourdThymes_75, Ekhein_75, Breezic_75, Hotorobo_75
- Track 5 : Monty_74, Adgers_78, Boneham_78, Msay19_79, Poland_79, Kelzog_76, FelixAlejandro_79, BirksAndSocks_79, Gorko_74, Butterball_77, Beaver_78, Jellybones_76, Sombrero_76
- Track 6 : CinnamonToast_79, Barbochs_72, BillyBobJr_79, Sam12_74, Exiguo_74, RemRem_76, Worcestershire_74
- Track 7 : Diabla_80
- Track 8 : Chelms_74, PierreThree_73, Dakiti_75
- Track 9 : BenoitCattle_75
- Track 10 : Eggsie_74, RoyalG_75, PokyPuppy_73, SteveFrench_74
- Track 11 : Crete_74
- Track 12 : Linetti_74
- Track 13 : Damp_72, Teal_71, Berries_72, Hail2Pitt_70, GalacticEye_72, Luker_73, Jams_72, Bianmat_72, Lidong_72, Newt_73, Kaseim_72, Shelley_72, MrWormie_72, Charianelly_72, Sticker17_72, Minos_73
- Track 14 : Anamika_71, Hello_71, Harambe_71, Guillaume_71, Lahirium_71, Woes_71, Nimi13_71, Neoevie_71, Jormungandr_71

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

The start number called the most often in the published annotations is 10, it was called in 38 of the 63 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers_78, Amore2_75, Austin_74, Barbochs_72, Beaver_78, BenoitCattle_75, BigShaq_75, BillyBobJr_79, BirksAndSocks_79, Boneham_78, Breezic_75, Butterball_77, CathyBurgh_75, Chelms_74, CinnamonToast_79, Crete_74, Dakiti_75, Diabla_80, Eggsie_74, Ekhein_75, Exiguo_74, FelixAlejandro_79, Flakey_74, GMA7_64, GTE7_63, Gorko_74, GourdThymes_75, HayZem_75, Hotorobo_75, Jellybones_76, Kelzog_76, Linetti_74, Lizzo_75, Monty_74, Msay19_79,

PierreThree_73, PokyPuppy_73, Poland_79, RemRem_76, RoyalG_75, Sam12_74, Sombrero_76, Squibbles_74, SteveFrench_74, Worcestershire_74,

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

-

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

• Anamika_71, Berries_72, Bianmat_72, Charianelly_72, Damp_72, GalacticEye_72, Guillaume_71, Hail2Pitt_70, Harambe_71, Hello_71, Jams_72, Jormungandr_71, Kaseim_72, Lahirium_71, Lidong_72, Luker_73, Minos_73, MrWormie_72, Neoevie_71, Newt_73, Nimi13_71, Shelley_72, Sticker17_72, Teal_71, Woes_71,

Summary by start number:

Start 5:

- Found in 25 of 70 (35.7%) of genes in pham
- Manual Annotations of this start: 9 of 63
- Called 36.0% of time when present
- Phage (with cluster) where this start called: Anamika_71 (CS3), Guillaume_71 (CS3), Harambe_71 (CS3), Hello_71 (CS3), Jormungandr_71 (CS3), Lahirium_71 (CS3), Neoevie_71 (CS3), Nimi13_71 (CS3), Woes_71 (CS3),

Start 8:

- Found in 25 of 70 (35.7%) of genes in pham
- Manual Annotations of this start: 16 of 63
- Called 64.0% of time when present
- Phage (with cluster) where this start called: Berries_72 (CS3), Bianmat_72 (CS3), Charianelly_72 (CS3), Damp_72 (CS3), GalacticEye_72 (CS3), Hail2Pitt_70 (CS3), Jams_72 (CS3), Kaseim_72 (CS3), Lidong_72 (CS3), Luker_73 (CS3), Minos_73 (CS3), MrWormie_72 (CS3), Newt_73 (CS3), Shelley_72 (CS3), Sticker17_72 (CS3), Teal_71 (CS3),

Start 10:

- Found in 45 of 70 (64.3%) of genes in pham
- Manual Annotations of this start: 38 of 63
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adgers_78 (CS2), Amore2_75 (CS1), Austin_74 (CS1), Barbochs_72 (CS2), Beaver_78 (CS2), BenoitCattle_75 (CS2), BigShaq_75 (CS2), BillyBobJr_79 (CS2), BirksAndSocks_79 (CS2), Boneham_78 (CS2), Breezic_75 (CS2), Butterball_77 (CS2), CathyBurgh_75 (CS2), Chelms_74 (CS2), CinnamonToast_79 (CS2), Crete_74 (CS2), Dakiti_75 (CS2), Diabla_80 (CS2), Eggsie_74 (CS2), Ekhein_75 (CS2), Exiguo_74 (CS2), FelixAlejandro_79 (CS2), Flakey_74 (CS2), GMA7_64 (CS1), GTE7_63 (CS1), Gorko_74 (CS2), GourdThymes_75 (CS2), HayZem_75 (CS1), Hotorobo_75 (CS2), Jellybones_76 (CS2), Kelzog_76 (CS2), Linetti_74 (CS2), Lizzo_75 (CS2), Monty_74 (CS2), Msay19_79 (CS2), PierreThree_73 (CS2), PokyPuppy_73 (CS2), Poland_79 (CS2), RemRem_76 (CS2), RoyalG_75 (CS2), Sam12_74 (CS2), Sombrero_76 (CS2), Squibbles_74 (CS2), SteveFrench_74 (CS2), Worcestershire_74 (CS2),

Summary by clusters:

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

Info for manual annotations of cluster CS1:

- Start number 10 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:

- Start number 10 was manually annotated 35 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 5 was manually annotated 9 times for cluster CS3.
- Start number 8 was manually annotated 16 times for cluster CS3.

Gene Information:

Gene: Adgers_78 Start: 59804, Stop: 59661, Start Num: 10

Candidate Starts for Adgers_78:

(Start: 10 @59804 has 38 MA's), (14, 59744),

Gene: Amore2_75 Start: 59331, Stop: 59185, Start Num: 10

Candidate Starts for Amore2_75:

(6, 59379), (7, 59373), (9, 59352), (Start: 10 @59331 has 38 MA's), (16, 59244),

Gene: Anamika_71 Start: 59896, Stop: 59702, Start Num: 5

Candidate Starts for Anamika_71:

(Start: 5 @59896 has 9 MA's), (Start: 8 @59878 has 16 MA's), (11, 59812), (18, 59722),

Gene: Austin_74 Start: 59329, Stop: 59183, Start Num: 10

Candidate Starts for Austin_74:

(6, 59377), (7, 59371), (9, 59350), (Start: 10 @59329 has 38 MA's), (15, 59254), (16, 59242),

Gene: Barbochs_72 Start: 59160, Stop: 59035, Start Num: 10

Candidate Starts for Barbochs_72:

(Start: 10 @59160 has 38 MA's), (13, 59124), (14, 59118),

Gene: Beaver_78 Start: 61116, Stop: 60973, Start Num: 10

Candidate Starts for Beaver_78:

(Start: 10 @61116 has 38 MA's), (14, 61056),

Gene: BenoitCattle_75 Start: 59779, Stop: 59636, Start Num: 10

Candidate Starts for BenoitCattle_75:

(4, 59953), (Start: 10 @59779 has 38 MA's), (13, 59725), (14, 59719), (19, 59644),

Gene: Berries_72 Start: 59850, Stop: 59674, Start Num: 8

Candidate Starts for Berries_72:

(Start: 5 @59868 has 9 MA's), (Start: 8 @59850 has 16 MA's), (11, 59784), (18, 59694),

Gene: Bianmat_72 Start: 59890, Stop: 59714, Start Num: 8

Candidate Starts for Bianmat_72:

(Start: 5 @59908 has 9 MA's), (Start: 8 @59890 has 16 MA's), (11, 59824), (18, 59734),

Gene: BigShaq_75 Start: 59783, Stop: 59640, Start Num: 10

Candidate Starts for BigShaq_75:

(Start: 10 @59783 has 38 MA's), (13, 59729), (14, 59723), (19, 59648),

Gene: BillyBobJr_79 Start: 61240, Stop: 61115, Start Num: 10
Candidate Starts for BillyBobJr_79:
(Start: 10 @61240 has 38 MA's), (13, 61204), (14, 61198),

Gene: BirksAndSocks_79 Start: 61262, Stop: 61119, Start Num: 10
Candidate Starts for BirksAndSocks_79:
(Start: 10 @61262 has 38 MA's), (14, 61202),

Gene: Boneham_78 Start: 61187, Stop: 61044, Start Num: 10
Candidate Starts for Boneham_78:
(Start: 10 @61187 has 38 MA's), (14, 61127),

Gene: Breezic_75 Start: 59359, Stop: 59216, Start Num: 10
Candidate Starts for Breezic_75:
(Start: 10 @59359 has 38 MA's), (14, 59299),

Gene: Butterball_77 Start: 61192, Stop: 61049, Start Num: 10
Candidate Starts for Butterball_77:
(Start: 10 @61192 has 38 MA's), (14, 61132),

Gene: CathyBurgh_75 Start: 59867, Stop: 59724, Start Num: 10
Candidate Starts for CathyBurgh_75:
(Start: 10 @59867 has 38 MA's), (14, 59807),

Gene: Charianelly_72 Start: 59600, Stop: 59424, Start Num: 8
Candidate Starts for Charianelly_72:
(Start: 5 @59618 has 9 MA's), (Start: 8 @59600 has 16 MA's), (11, 59534), (18, 59444),

Gene: Chelms_74 Start: 59722, Stop: 59579, Start Num: 10
Candidate Starts for Chelms_74:
(1, 60031), (4, 59896), (Start: 10 @59722 has 38 MA's), (13, 59668), (14, 59662), (19, 59587),

Gene: CinnamonToast_79 Start: 61240, Stop: 61115, Start Num: 10
Candidate Starts for CinnamonToast_79:
(Start: 10 @61240 has 38 MA's), (13, 61204), (14, 61198),

Gene: Crete_74 Start: 59841, Stop: 59698, Start Num: 10
Candidate Starts for Crete_74:
(Start: 10 @59841 has 38 MA's), (13, 59787), (14, 59781), (19, 59706),

Gene: Dakiti_75 Start: 60590, Stop: 60447, Start Num: 10
Candidate Starts for Dakiti_75:
(1, 60899), (4, 60764), (Start: 10 @60590 has 38 MA's), (13, 60536), (14, 60530), (19, 60455),

Gene: Damp_72 Start: 58764, Stop: 58588, Start Num: 8
Candidate Starts for Damp_72:
(Start: 5 @58782 has 9 MA's), (Start: 8 @58764 has 16 MA's), (11, 58698), (18, 58608),

Gene: Diabla_80 Start: 61279, Stop: 61142, Start Num: 10
Candidate Starts for Diabla_80:
(Start: 10 @61279 has 38 MA's), (12, 61228), (17, 61183),

Gene: Eggsie_74 Start: 59080, Stop: 58943, Start Num: 10
Candidate Starts for Eggsie_74:
(Start: 10 @59080 has 38 MA's), (17, 58984),

Gene: Ekhein_75 Start: 59058, Stop: 58915, Start Num: 10
Candidate Starts for Ekhein_75:
(Start: 10 @59058 has 38 MA's), (14, 58998),

Gene: Exiguo_74 Start: 59076, Stop: 58951, Start Num: 10
Candidate Starts for Exiguo_74:
(Start: 10 @59076 has 38 MA's), (13, 59040), (14, 59034),

Gene: FelixAlejandro_79 Start: 61590, Stop: 61447, Start Num: 10
Candidate Starts for FelixAlejandro_79:
(Start: 10 @61590 has 38 MA's), (14, 61530),

Gene: Flakey_74 Start: 59853, Stop: 59710, Start Num: 10
Candidate Starts for Flakey_74:
(Start: 10 @59853 has 38 MA's), (14, 59793),

Gene: GMA7_64 Start: 53545, Stop: 53399, Start Num: 10
Candidate Starts for GMA7_64:
(6, 53593), (7, 53587), (9, 53566), (Start: 10 @53545 has 38 MA's), (16, 53458),

Gene: GTE7_63 Start: 53576, Stop: 53430, Start Num: 10
Candidate Starts for GTE7_63:
(6, 53624), (7, 53618), (9, 53597), (Start: 10 @53576 has 38 MA's), (16, 53489),

Gene: GalacticEye_72 Start: 59561, Stop: 59385, Start Num: 8
Candidate Starts for GalacticEye_72:
(Start: 5 @59579 has 9 MA's), (Start: 8 @59561 has 16 MA's), (11, 59495), (18, 59405),

Gene: Gorko_74 Start: 58999, Stop: 58856, Start Num: 10
Candidate Starts for Gorko_74:
(Start: 10 @58999 has 38 MA's), (14, 58939),

Gene: GourdThymes_75 Start: 59954, Stop: 59811, Start Num: 10
Candidate Starts for GourdThymes_75:
(Start: 10 @59954 has 38 MA's), (14, 59894),

Gene: Guillaume_71 Start: 59629, Stop: 59435, Start Num: 5
Candidate Starts for Guillaume_71:
(Start: 5 @59629 has 9 MA's), (Start: 8 @59611 has 16 MA's), (11, 59545), (18, 59455),

Gene: Hail2Pitt_70 Start: 60087, Stop: 59911, Start Num: 8
Candidate Starts for Hail2Pitt_70:
(Start: 5 @60105 has 9 MA's), (Start: 8 @60087 has 16 MA's), (11, 60021), (18, 59931),

Gene: Harambe_71 Start: 59896, Stop: 59702, Start Num: 5
Candidate Starts for Harambe_71:
(Start: 5 @59896 has 9 MA's), (Start: 8 @59878 has 16 MA's), (11, 59812), (18, 59722),

Gene: HayZem_75 Start: 59328, Stop: 59182, Start Num: 10

Candidate Starts for HayZem_75:

(6, 59376), (7, 59370), (9, 59349), (Start: 10 @59328 has 38 MA's), (16, 59241),

Gene: Hello_71 Start: 59858, Stop: 59664, Start Num: 5

Candidate Starts for Hello_71:

(Start: 5 @59858 has 9 MA's), (Start: 8 @59840 has 16 MA's), (11, 59774), (18, 59684),

Gene: Hotorobo_75 Start: 59941, Stop: 59798, Start Num: 10

Candidate Starts for Hotorobo_75:

(Start: 10 @59941 has 38 MA's), (14, 59881),

Gene: Jams_72 Start: 59050, Stop: 58874, Start Num: 8

Candidate Starts for Jams_72:

(Start: 5 @59068 has 9 MA's), (Start: 8 @59050 has 16 MA's), (11, 58984), (18, 58894),

Gene: Jellybones_76 Start: 60874, Stop: 60731, Start Num: 10

Candidate Starts for Jellybones_76:

(Start: 10 @60874 has 38 MA's), (14, 60814),

Gene: Jormungandr_71 Start: 59611, Stop: 59417, Start Num: 5

Candidate Starts for Jormungandr_71:

(Start: 5 @59611 has 9 MA's), (Start: 8 @59593 has 16 MA's), (11, 59527), (18, 59437),

Gene: Kaseim_72 Start: 59035, Stop: 58859, Start Num: 8

Candidate Starts for Kaseim_72:

(Start: 5 @59053 has 9 MA's), (Start: 8 @59035 has 16 MA's), (11, 58969), (18, 58879),

Gene: Kelzog_76 Start: 59830, Stop: 59687, Start Num: 10

Candidate Starts for Kelzog_76:

(Start: 10 @59830 has 38 MA's), (14, 59770),

Gene: Lahirium_71 Start: 60133, Stop: 59939, Start Num: 5

Candidate Starts for Lahirium_71:

(Start: 5 @60133 has 9 MA's), (Start: 8 @60115 has 16 MA's), (11, 60049), (18, 59959),

Gene: Lidong_72 Start: 59850, Stop: 59674, Start Num: 8

Candidate Starts for Lidong_72:

(Start: 5 @59868 has 9 MA's), (Start: 8 @59850 has 16 MA's), (11, 59784), (18, 59694),

Gene: Linetti_74 Start: 60744, Stop: 60601, Start Num: 10

Candidate Starts for Linetti_74:

(1, 61053), (2, 61029), (3, 60924), (4, 60918), (Start: 10 @60744 has 38 MA's), (13, 60690), (14, 60684),

Gene: Lizzo_75 Start: 59867, Stop: 59724, Start Num: 10

Candidate Starts for Lizzo_75:

(Start: 10 @59867 has 38 MA's), (14, 59807),

Gene: Luker_73 Start: 60068, Stop: 59892, Start Num: 8

Candidate Starts for Luker_73:

(Start: 5 @60086 has 9 MA's), (Start: 8 @60068 has 16 MA's), (11, 60002), (18, 59912),

Gene: Minos_73 Start: 59592, Stop: 59416, Start Num: 8

Candidate Starts for Minos_73:

(Start: 5 @59610 has 9 MA's), (Start: 8 @59592 has 16 MA's), (11, 59526), (18, 59436),

Gene: Monty_74 Start: 59080, Stop: 58937, Start Num: 10

Candidate Starts for Monty_74:

(Start: 10 @59080 has 38 MA's), (14, 59020),

Gene: MrWormie_72 Start: 58753, Stop: 58577, Start Num: 8

Candidate Starts for MrWormie_72:

(Start: 5 @58771 has 9 MA's), (Start: 8 @58753 has 16 MA's), (11, 58687), (18, 58597),

Gene: Msay19_79 Start: 61476, Stop: 61333, Start Num: 10

Candidate Starts for Msay19_79:

(Start: 10 @61476 has 38 MA's), (14, 61416),

Gene: Neoevie_71 Start: 59872, Stop: 59678, Start Num: 5

Candidate Starts for Neoevie_71:

(Start: 5 @59872 has 9 MA's), (Start: 8 @59854 has 16 MA's), (11, 59788), (18, 59698),

Gene: Newt_73 Start: 60082, Stop: 59906, Start Num: 8

Candidate Starts for Newt_73:

(Start: 5 @60100 has 9 MA's), (Start: 8 @60082 has 16 MA's), (11, 60016), (18, 59926),

Gene: Nimi13_71 Start: 59619, Stop: 59425, Start Num: 5

Candidate Starts for Nimi13_71:

(Start: 5 @59619 has 9 MA's), (Start: 8 @59601 has 16 MA's), (11, 59535), (18, 59445),

Gene: PierreThree_73 Start: 60221, Stop: 60078, Start Num: 10

Candidate Starts for PierreThree_73:

(1, 60530), (4, 60395), (Start: 10 @60221 has 38 MA's), (13, 60167), (14, 60161), (19, 60086),

Gene: PokyPuppy_73 Start: 60048, Stop: 59911, Start Num: 10

Candidate Starts for PokyPuppy_73:

(Start: 10 @60048 has 38 MA's), (17, 59952),

Gene: Poland_79 Start: 61455, Stop: 61312, Start Num: 10

Candidate Starts for Poland_79:

(Start: 10 @61455 has 38 MA's), (14, 61395),

Gene: RemRem_76 Start: 59052, Stop: 58927, Start Num: 10

Candidate Starts for RemRem_76:

(Start: 10 @59052 has 38 MA's), (13, 59016), (14, 59010),

Gene: RoyalG_75 Start: 59719, Stop: 59582, Start Num: 10

Candidate Starts for RoyalG_75:

(Start: 10 @59719 has 38 MA's), (17, 59623),

Gene: Sam12_74 Start: 59076, Stop: 58951, Start Num: 10

Candidate Starts for Sam12_74:

(Start: 10 @59076 has 38 MA's), (13, 59040), (14, 59034),

Gene: Shelley_72 Start: 59077, Stop: 58901, Start Num: 8

Candidate Starts for Shelley_72:

(Start: 5 @59095 has 9 MA's), (Start: 8 @59077 has 16 MA's), (11, 59011), (18, 58921),

Gene: Sombrero_76 Start: 59667, Stop: 59524, Start Num: 10

Candidate Starts for Sombrero_76:

(Start: 10 @59667 has 38 MA's), (14, 59607),

Gene: Squibbles_74 Start: 59933, Stop: 59790, Start Num: 10

Candidate Starts for Squibbles_74:

(Start: 10 @59933 has 38 MA's), (14, 59873),

Gene: SteveFrench_74 Start: 59959, Stop: 59822, Start Num: 10

Candidate Starts for SteveFrench_74:

(Start: 10 @59959 has 38 MA's), (17, 59863),

Gene: Sticker17_72 Start: 59565, Stop: 59389, Start Num: 8

Candidate Starts for Sticker17_72:

(Start: 5 @59583 has 9 MA's), (Start: 8 @59565 has 16 MA's), (11, 59499), (18, 59409),

Gene: Teal_71 Start: 60059, Stop: 59883, Start Num: 8

Candidate Starts for Teal_71:

(Start: 5 @60077 has 9 MA's), (Start: 8 @60059 has 16 MA's), (11, 59993), (18, 59903),

Gene: Woes_71 Start: 60128, Stop: 59934, Start Num: 5

Candidate Starts for Woes_71:

(Start: 5 @60128 has 9 MA's), (Start: 8 @60110 has 16 MA's), (11, 60044), (18, 59954),

Gene: Worcestershire_74 Start: 59060, Stop: 58935, Start Num: 10

Candidate Starts for Worcestershire_74:

(Start: 10 @59060 has 38 MA's), (13, 59024), (14, 59018),