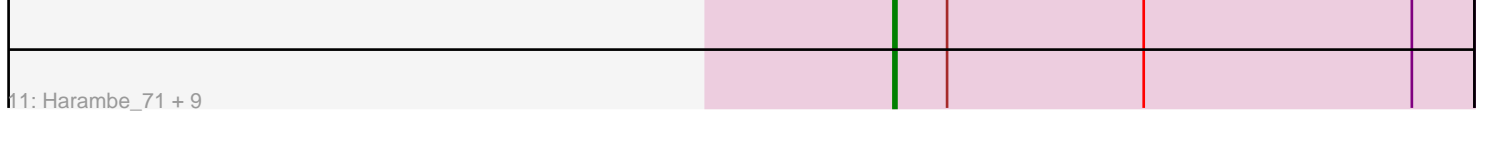
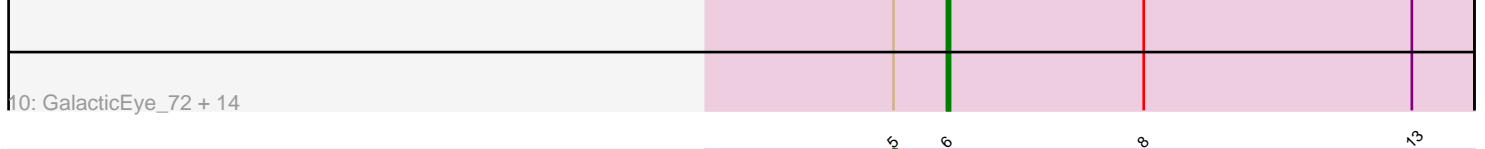
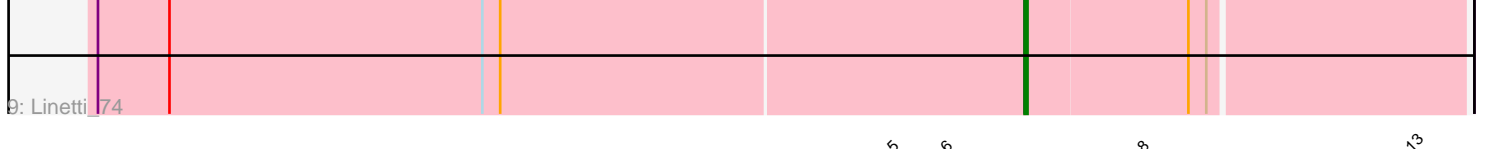
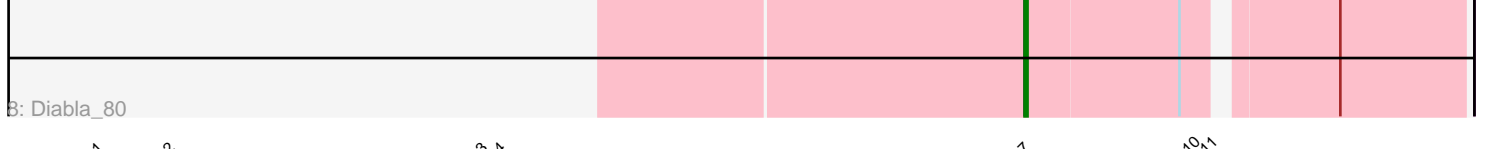
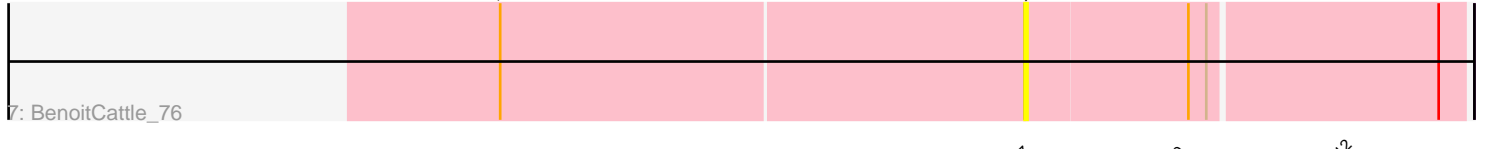
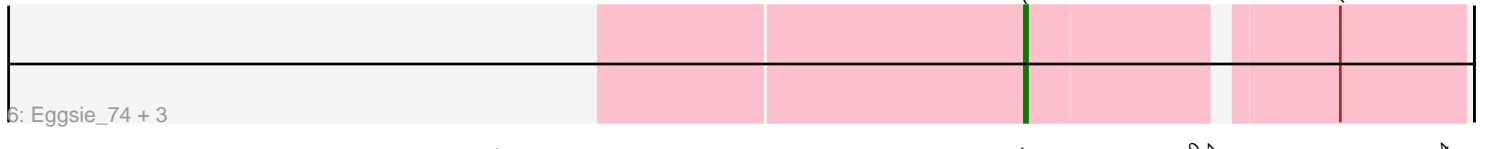
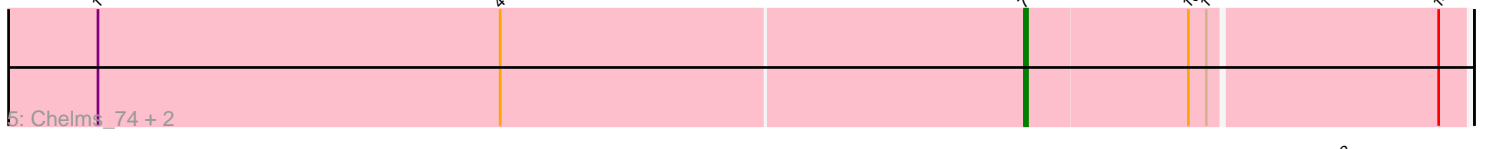
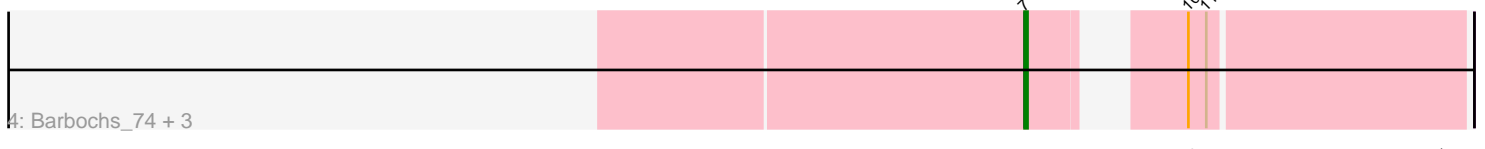
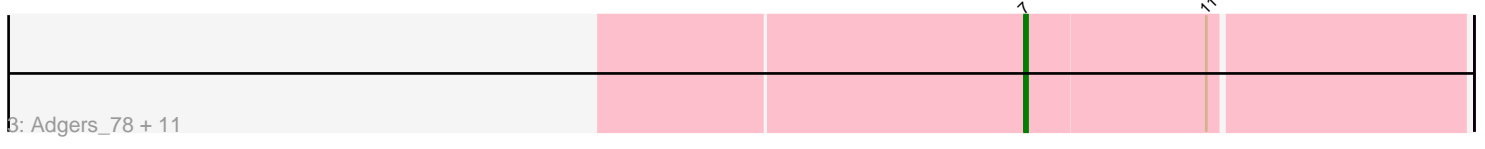
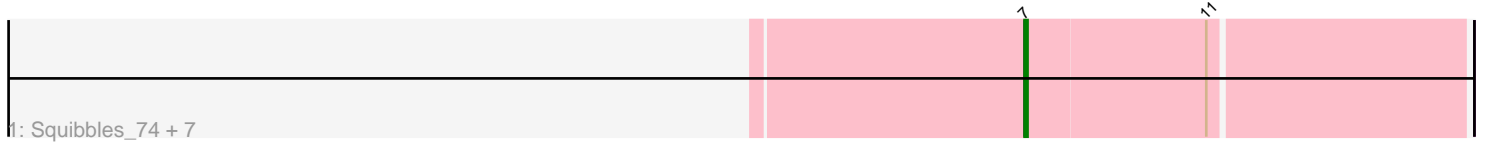


Pham 163624



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 163624 Report

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

Pham number 163624 has 60 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Squibbles_74, CathyBurgh_74, Flakey_74, Breezic_75, GourdThymes_75, Ekhein_75, Lizzo_75, Hotorobo_75
- Track 2 : BigShaq_74
- Track 3 : Adgers_78, Boneham_78, Monty_74, Msay19_79, Beaver_78, Poland_80, FelixAlejandro_79, BirksAndSocks_79, Gorko_74, Butterball_77, Jellybones_76, Sombrero_76
- Track 4 : Barbochs_74, Exiguo_74, Sam12_74, RemRem_76
- Track 5 : Chelms_74, PierreThree_73, Dakiti_75
- Track 6 : Eggsie_74, RoyalG_75, PokyPuppy_73, SteveFrench_74
- Track 7 : BenoitCattle_76
- Track 8 : Diabla_80
- Track 9 : Linetti_74
- Track 10 : GalacticEye_72, Teal_71, Hail2Pitt_70, Luker_73, Jams_72, Damp_69, Newt_73, Kaseim_71, Shelley_72, MrWormie_72, Bianmat_72, Charianelly_71, Sticker17_72, Lidong_72, Minos_73
- Track 11 : Harambe_71, Anamika_71, Berries_72, Nimi13_71, Hello_71, Guillaume_71, Lahirium_71, Woes_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 7, it was called in 28 of the 49 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers_78, Barbochs_74, Beaver_78, BenoitCattle_76, BigShaq_74, BirksAndSocks_79, Boneham_78, Breezic_75, Butterball_77, CathyBurgh_74, Chelms_74, Dakiti_75, Diabla_80, Eggsie_74, Ekhein_75, Exiguo_74, FelixAlejandro_79, Flakey_74, Gorko_74, GourdThymes_75, Hotorobo_75, Jellybones_76, Linetti_74, Lizzo_75, Monty_74, Msay19_79, PierreThree_73, PokyPuppy_73, Poland_80, RemRem_76, RoyalG_75, Sam12_74, Sombrero_76, Squibbles_74, SteveFrench_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_71, Damp_69, GalacticEye_72, Guillaume_71, Hail2Pitt_70, Harambe_71, Hello_71, Jams_72, Jormungandr_71, Kaseim_71, 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 60 (41.7%) of genes in pham
- Manual Annotations of this start: 9 of 49
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Anamika_71 (CS3), Berries_72 (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 6:

- Found in 25 of 60 (41.7%) of genes in pham
- Manual Annotations of this start: 12 of 49
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Bianmat_72 (CS3), Charianelly_71 (CS3), Damp_69 (CS3), GalacticEye_72 (CS3), Hail2Pitt_70 (CS3), Jams_72 (CS3), Kaseim_71 (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 7:

- Found in 35 of 60 (58.3%) of genes in pham
- Manual Annotations of this start: 28 of 49
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adgers_78 (CS2), Barbochs_74 (CS2), Beaver_78 (CS2), BenoitCattle_76 (CS2), BigShaq_74 (CS2), BirksAndSocks_79 (CS2), Boneham_78 (CS2), Breezic_75 (CS2), Butterball_77 (CS2), CathyBurgh_74 (CS2), Chelms_74 (CS2), Dakiti_75 (CS2), Diabla_80 (CS2), Eggsie_74 (CS2), Ekhein_75 (CS2), Exiguo_74 (CS2), FelixAlejandro_79 (CS2), Flakey_74 (CS2), Gorko_74 (CS2), GourdThymes_75 (CS2), Hotorobo_75 (CS2), Jellybones_76 (CS2), Linetti_74 (CS2), Lizzo_75 (CS2), Monty_74 (CS2), Msay19_79 (CS2), PierreThree_73 (CS2), PokyPuppy_73 (CS2), Poland_80 (CS2), RemRem_76 (CS2), RoyalG_75 (CS2), Sam12_74 (CS2), Sombrero_76 (CS2), Squibbles_74 (CS2), SteveFrench_74 (CS2),

Summary by clusters:

There are 2 clusters represented in this pham: CS3, CS2,

Info for manual annotations of cluster CS2:

- Start number 7 was manually annotated 28 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 5 was manually annotated 9 times for cluster CS3.
- Start number 6 was manually annotated 12 times for cluster CS3.

Gene Information:

Gene: Adgers_78 Start: 59804, Stop: 59661, Start Num: 7

Candidate Starts for Adgers_78:

(Start: 7 @59804 has 28 MA's), (11, 59744),

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

Candidate Starts for Anamika_71:

(Start: 5 @59896 has 9 MA's), (Start: 6 @59878 has 12 MA's), (8, 59812), (13, 59722),

Gene: Barbochs_74 Start: 59160, Stop: 59035, Start Num: 7

Candidate Starts for Barbochs_74:

(Start: 7 @59160 has 28 MA's), (10, 59124), (11, 59118),

Gene: Beaver_78 Start: 61116, Stop: 60973, Start Num: 7

Candidate Starts for Beaver_78:

(Start: 7 @61116 has 28 MA's), (11, 61056),

Gene: BenoitCattle_76 Start: 59779, Stop: 59636, Start Num: 7

Candidate Starts for BenoitCattle_76:

(4, 59953), (Start: 7 @59779 has 28 MA's), (10, 59725), (11, 59719), (14, 59644),

Gene: Berries_72 Start: 59868, Stop: 59674, Start Num: 5

Candidate Starts for Berries_72:

(Start: 5 @59868 has 9 MA's), (Start: 6 @59850 has 12 MA's), (8, 59784), (13, 59694),

Gene: Bianmat_72 Start: 59890, Stop: 59714, Start Num: 6

Candidate Starts for Bianmat_72:

(Start: 5 @59908 has 9 MA's), (Start: 6 @59890 has 12 MA's), (8, 59824), (13, 59734),

Gene: BigShaq_74 Start: 59783, Stop: 59640, Start Num: 7

Candidate Starts for BigShaq_74:

(Start: 7 @59783 has 28 MA's), (10, 59729), (11, 59723), (14, 59648),

Gene: BirksAndSocks_79 Start: 61262, Stop: 61119, Start Num: 7

Candidate Starts for BirksAndSocks_79:

(Start: 7 @61262 has 28 MA's), (11, 61202),

Gene: Boneham_78 Start: 61187, Stop: 61044, Start Num: 7

Candidate Starts for Boneham_78:

(Start: 7 @61187 has 28 MA's), (11, 61127),

Gene: Breezic_75 Start: 59359, Stop: 59216, Start Num: 7

Candidate Starts for Breezic_75:

(Start: 7 @59359 has 28 MA's), (11, 59299),

Gene: Butterball_77 Start: 61192, Stop: 61049, Start Num: 7

Candidate Starts for Butterball_77:

(Start: 7 @61192 has 28 MA's), (11, 61132),

Gene: CathyBurgh_74 Start: 59867, Stop: 59724, Start Num: 7

Candidate Starts for CathyBurgh_74:
(Start: 7 @59867 has 28 MA's), (11, 59807),

Gene: Charianelly_71 Start: 59600, Stop: 59424, Start Num: 6
Candidate Starts for Charianelly_71:
(Start: 5 @59618 has 9 MA's), (Start: 6 @59600 has 12 MA's), (8, 59534), (13, 59444),

Gene: Chelms_74 Start: 59722, Stop: 59579, Start Num: 7
Candidate Starts for Chelms_74:
(1, 60031), (4, 59896), (Start: 7 @59722 has 28 MA's), (10, 59668), (11, 59662), (14, 59587),

Gene: Dakiti_75 Start: 60590, Stop: 60447, Start Num: 7
Candidate Starts for Dakiti_75:
(1, 60899), (4, 60764), (Start: 7 @60590 has 28 MA's), (10, 60536), (11, 60530), (14, 60455),

Gene: Damp_69 Start: 58764, Stop: 58588, Start Num: 6
Candidate Starts for Damp_69:
(Start: 5 @58782 has 9 MA's), (Start: 6 @58764 has 12 MA's), (8, 58698), (13, 58608),

Gene: Diabla_80 Start: 61279, Stop: 61142, Start Num: 7
Candidate Starts for Diabla_80:
(Start: 7 @61279 has 28 MA's), (9, 61228), (12, 61183),

Gene: Eggsie_74 Start: 59080, Stop: 58943, Start Num: 7
Candidate Starts for Eggsie_74:
(Start: 7 @59080 has 28 MA's), (12, 58984),

Gene: Ekhein_75 Start: 59058, Stop: 58915, Start Num: 7
Candidate Starts for Ekhein_75:
(Start: 7 @59058 has 28 MA's), (11, 58998),

Gene: Exiguo_74 Start: 59076, Stop: 58951, Start Num: 7
Candidate Starts for Exiguo_74:
(Start: 7 @59076 has 28 MA's), (10, 59040), (11, 59034),

Gene: FelixAlejandro_79 Start: 61590, Stop: 61447, Start Num: 7
Candidate Starts for FelixAlejandro_79:
(Start: 7 @61590 has 28 MA's), (11, 61530),

Gene: Flakey_74 Start: 59853, Stop: 59710, Start Num: 7
Candidate Starts for Flakey_74:
(Start: 7 @59853 has 28 MA's), (11, 59793),

Gene: GalacticEye_72 Start: 59561, Stop: 59385, Start Num: 6
Candidate Starts for GalacticEye_72:
(Start: 5 @59579 has 9 MA's), (Start: 6 @59561 has 12 MA's), (8, 59495), (13, 59405),

Gene: Gorko_74 Start: 58999, Stop: 58856, Start Num: 7
Candidate Starts for Gorko_74:
(Start: 7 @58999 has 28 MA's), (11, 58939),

Gene: GourdThymes_75 Start: 59954, Stop: 59811, Start Num: 7
Candidate Starts for GourdThymes_75:

(Start: 7 @59954 has 28 MA's), (11, 59894),

Gene: Guillaume_71 Start: 59629, Stop: 59435, Start Num: 5

Candidate Starts for Guillaume_71:

(Start: 5 @59629 has 9 MA's), (Start: 6 @59611 has 12 MA's), (8, 59545), (13, 59455),

Gene: Hail2Pitt_70 Start: 60087, Stop: 59911, Start Num: 6

Candidate Starts for Hail2Pitt_70:

(Start: 5 @60105 has 9 MA's), (Start: 6 @60087 has 12 MA's), (8, 60021), (13, 59931),

Gene: Harambe_71 Start: 59896, Stop: 59702, Start Num: 5

Candidate Starts for Harambe_71:

(Start: 5 @59896 has 9 MA's), (Start: 6 @59878 has 12 MA's), (8, 59812), (13, 59722),

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

Candidate Starts for Hello_71:

(Start: 5 @59858 has 9 MA's), (Start: 6 @59840 has 12 MA's), (8, 59774), (13, 59684),

Gene: Hotorobo_75 Start: 59941, Stop: 59798, Start Num: 7

Candidate Starts for Hotorobo_75:

(Start: 7 @59941 has 28 MA's), (11, 59881),

Gene: Jams_72 Start: 59050, Stop: 58874, Start Num: 6

Candidate Starts for Jams_72:

(Start: 5 @59068 has 9 MA's), (Start: 6 @59050 has 12 MA's), (8, 58984), (13, 58894),

Gene: Jellybones_76 Start: 60874, Stop: 60731, Start Num: 7

Candidate Starts for Jellybones_76:

(Start: 7 @60874 has 28 MA's), (11, 60814),

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

Candidate Starts for Jormungandr_71:

(Start: 5 @59611 has 9 MA's), (Start: 6 @59593 has 12 MA's), (8, 59527), (13, 59437),

Gene: Kaseim_71 Start: 59035, Stop: 58859, Start Num: 6

Candidate Starts for Kaseim_71:

(Start: 5 @59053 has 9 MA's), (Start: 6 @59035 has 12 MA's), (8, 58969), (13, 58879),

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

Candidate Starts for Lahirium_71:

(Start: 5 @60133 has 9 MA's), (Start: 6 @60115 has 12 MA's), (8, 60049), (13, 59959),

Gene: Lidong_72 Start: 59850, Stop: 59674, Start Num: 6

Candidate Starts for Lidong_72:

(Start: 5 @59868 has 9 MA's), (Start: 6 @59850 has 12 MA's), (8, 59784), (13, 59694),

Gene: Linetti_74 Start: 60744, Stop: 60601, Start Num: 7

Candidate Starts for Linetti_74:

(1, 61053), (2, 61029), (3, 60924), (4, 60918), (Start: 7 @60744 has 28 MA's), (10, 60690), (11, 60684),

Gene: Lizzo_75 Start: 59867, Stop: 59724, Start Num: 7

Candidate Starts for Lizzo_75:

(Start: 7 @59867 has 28 MA's), (11, 59807),

Gene: Luker_73 Start: 60068, Stop: 59892, Start Num: 6

Candidate Starts for Luker_73:

(Start: 5 @60086 has 9 MA's), (Start: 6 @60068 has 12 MA's), (8, 60002), (13, 59912),

Gene: Minos_73 Start: 59592, Stop: 59416, Start Num: 6

Candidate Starts for Minos_73:

(Start: 5 @59610 has 9 MA's), (Start: 6 @59592 has 12 MA's), (8, 59526), (13, 59436),

Gene: Monty_74 Start: 59080, Stop: 58937, Start Num: 7

Candidate Starts for Monty_74:

(Start: 7 @59080 has 28 MA's), (11, 59020),

Gene: MrWormie_72 Start: 58753, Stop: 58577, Start Num: 6

Candidate Starts for MrWormie_72:

(Start: 5 @58771 has 9 MA's), (Start: 6 @58753 has 12 MA's), (8, 58687), (13, 58597),

Gene: Msay19_79 Start: 61476, Stop: 61333, Start Num: 7

Candidate Starts for Msay19_79:

(Start: 7 @61476 has 28 MA's), (11, 61416),

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

Candidate Starts for Neoevie_71:

(Start: 5 @59872 has 9 MA's), (Start: 6 @59854 has 12 MA's), (8, 59788), (13, 59698),

Gene: Newt_73 Start: 60082, Stop: 59906, Start Num: 6

Candidate Starts for Newt_73:

(Start: 5 @60100 has 9 MA's), (Start: 6 @60082 has 12 MA's), (8, 60016), (13, 59926),

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

Candidate Starts for Nimi13_71:

(Start: 5 @59619 has 9 MA's), (Start: 6 @59601 has 12 MA's), (8, 59535), (13, 59445),

Gene: PierreThree_73 Start: 60221, Stop: 60078, Start Num: 7

Candidate Starts for PierreThree_73:

(1, 60530), (4, 60395), (Start: 7 @60221 has 28 MA's), (10, 60167), (11, 60161), (14, 60086),

Gene: PokyPuppy_73 Start: 60048, Stop: 59911, Start Num: 7

Candidate Starts for PokyPuppy_73:

(Start: 7 @60048 has 28 MA's), (12, 59952),

Gene: Poland_80 Start: 61455, Stop: 61312, Start Num: 7

Candidate Starts for Poland_80:

(Start: 7 @61455 has 28 MA's), (11, 61395),

Gene: RemRem_76 Start: 59052, Stop: 58927, Start Num: 7

Candidate Starts for RemRem_76:

(Start: 7 @59052 has 28 MA's), (10, 59016), (11, 59010),

Gene: RoyalG_75 Start: 59719, Stop: 59582, Start Num: 7

Candidate Starts for RoyalG_75:

(Start: 7 @59719 has 28 MA's), (12, 59623),

Gene: Sam12_74 Start: 59076, Stop: 58951, Start Num: 7

Candidate Starts for Sam12_74:

(Start: 7 @59076 has 28 MA's), (10, 59040), (11, 59034),

Gene: Shelley_72 Start: 59077, Stop: 58901, Start Num: 6

Candidate Starts for Shelley_72:

(Start: 5 @59095 has 9 MA's), (Start: 6 @59077 has 12 MA's), (8, 59011), (13, 58921),

Gene: Sombrero_76 Start: 59667, Stop: 59524, Start Num: 7

Candidate Starts for Sombrero_76:

(Start: 7 @59667 has 28 MA's), (11, 59607),

Gene: Squibbles_74 Start: 59933, Stop: 59790, Start Num: 7

Candidate Starts for Squibbles_74:

(Start: 7 @59933 has 28 MA's), (11, 59873),

Gene: SteveFrench_74 Start: 59959, Stop: 59822, Start Num: 7

Candidate Starts for SteveFrench_74:

(Start: 7 @59959 has 28 MA's), (12, 59863),

Gene: Sticker17_72 Start: 59565, Stop: 59389, Start Num: 6

Candidate Starts for Sticker17_72:

(Start: 5 @59583 has 9 MA's), (Start: 6 @59565 has 12 MA's), (8, 59499), (13, 59409),

Gene: Teal_71 Start: 60059, Stop: 59883, Start Num: 6

Candidate Starts for Teal_71:

(Start: 5 @60077 has 9 MA's), (Start: 6 @60059 has 12 MA's), (8, 59993), (13, 59903),

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

Candidate Starts for Woes_71:

(Start: 5 @60128 has 9 MA's), (Start: 6 @60110 has 12 MA's), (8, 60044), (13, 59954),