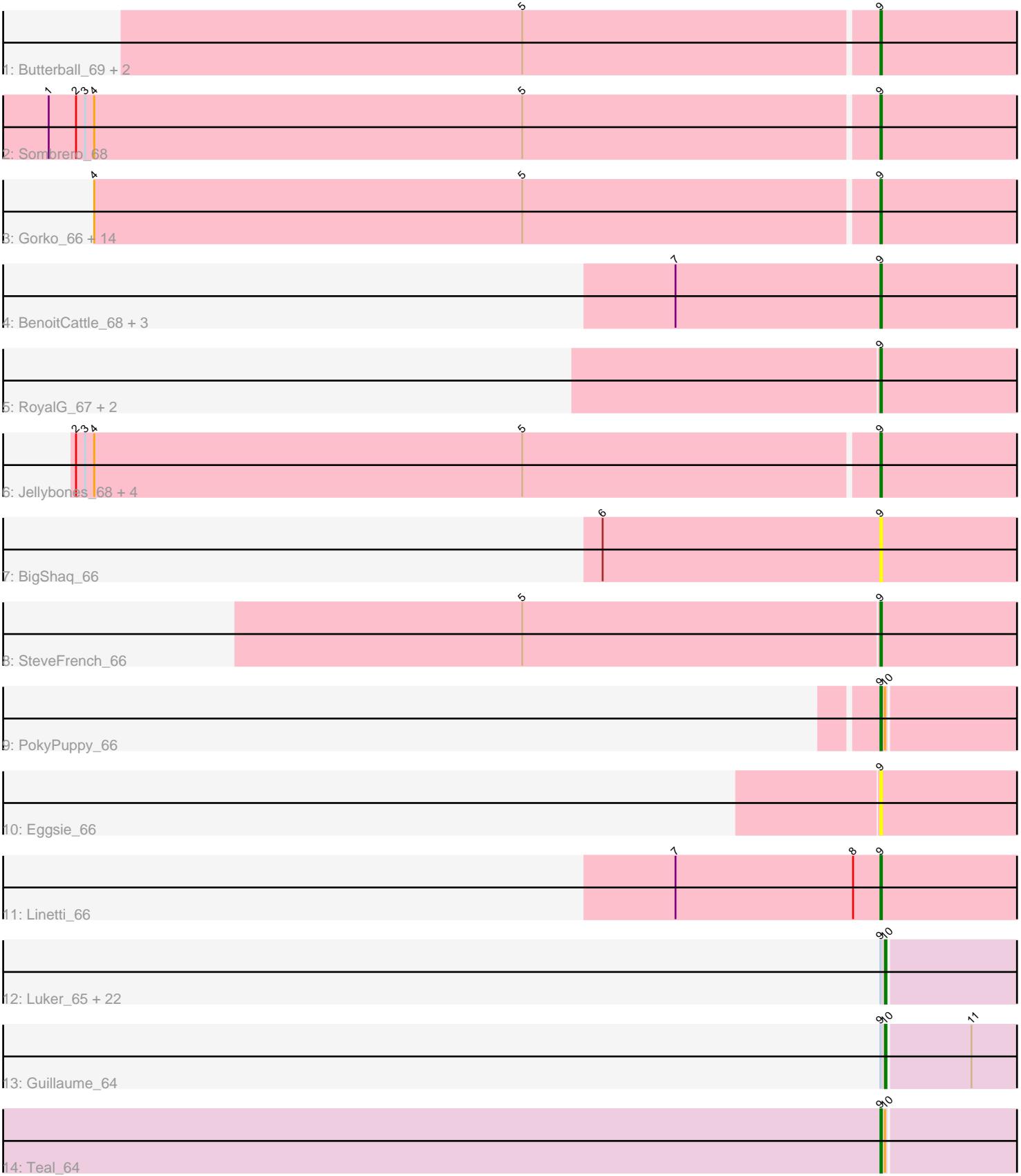


Pham 1741



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 1741 Report

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

Pham number 1741 has 61 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Butterball_69, FelixAlejandro_71, Boneham_70
- Track 2 : Sombrero_68
- Track 3 : Gorko_66, Beaver_70, Ekhein_67, John316_70, GourdThymes_67, Lizzo_67, Monty_66, Squibbles_66, Hotorobo_67, Exiguo_66, CathyBurgh_66, Flakey_66, RemRem_68, Breezic_67, Sam12_66
- Track 4 : BenoitCattle_68, Dakiti_67, PierreThree_65, Chelms_66
- Track 5 : RoyalG_67, Diabla_71, Adgers_70
- Track 6 : Jellybones_68, Msay19_71, BirksAndSocks_71, Barbochs_66, Poland_73
- Track 7 : BigShaq_66
- Track 8 : SteveFrench_66
- Track 9 : PokyPuppy_66
- Track 10 : Eggsie_66
- Track 11 : Linetti_66
- Track 12 : Luker_65, Anamika_64, Jams_64, Lahirium_64, Hail2Pitt_63, Newt_65, Woes_64, Neoevie_64, Charianelly_63, Kaseim_64, Nimi13_64, Jormungandr_64, Sticker17_64, Bianmat_64, Damp_62, GalacticEye_64, Minos_65, Berries_64, MrWormie_64, Hello_64, Lidong_64, Harambe_64, Shelley_64
- Track 13 : Guillaume_64
- Track 14 : Teal_64

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

The start number called the most often in the published annotations is 9, it was called in 30 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers_70, Barbochs_66, Beaver_70, BenoitCattle_68, BigShaq_66, BirksAndSocks_71, Boneham_70, Breezic_67, Butterball_69, CathyBurgh_66, Chelms_66, Dakiti_67, Diabla_71, Eggsie_66, Ekhein_67, Exiguo_66, FelixAlejandro_71, Flakey_66, Gorko_66, GourdThymes_67, Hotorobo_67, Jellybones_68, John316_70, Linetti_66, Lizzo_67, Monty_66, Msay19_71, PierreThree_65, PokyPuppy_66, Poland_73, RemRem_68, RoyalG_67, Sam12_66, Sombrero_68, Squibbles_66, SteveFrench_66, Teal_64,

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

- Anamika_64, Berries_64, Bianmat_64, Charianelly_63, Damp_62, GalacticEye_64, Guillaume_64, Hail2Pitt_63, Harambe_64, Hello_64, Jams_64, Jormungandr_64, Kaseim_64, Lahirium_64, Lidong_64, Luker_65, Minos_65, MrWormie_64, Neoevie_64, Newt_65, Nimi13_64, Shelley_64, Sticker17_64, Woes_64,

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

-

Summary by start number:

Start 9:

- Found in 61 of 61 (100.0%) of genes in pham
- Manual Annotations of this start: 30 of 50
- Called 60.7% of time when present
- Phage (with cluster) where this start called: Adgers_70 (CS2), Barbochs_66 (CS2), Beaver_70 (CS2), BenoitCattle_68 (CS2), BigShaq_66 (CS2), BirksAndSocks_71 (CS2), Boneham_70 (CS2), Breezic_67 (CS2), Butterball_69 (CS2), CathyBurgh_66 (CS2), Chelms_66 (CS2), Dakiti_67 (CS2), Diabla_71 (CS2), Eggsie_66 (CS2), Ekhein_67 (CS2), Exiguo_66 (CS2), FelixAlejandro_71 (CS2), Flakey_66 (CS2), Gorko_66 (CS2), GourdThymes_67 (CS2), Hotorobo_67 (CS2), Jellybones_68 (CS2), John316_70 (CS2), Linetti_66 (CS2), Lizzo_67 (CS2), Monty_66 (CS2), Msay19_71 (CS2), PierreThree_65 (CS2), PokyPuppy_66 (CS2), Poland_73 (CS2), RemRem_68 (CS2), RoyalG_67 (CS2), Sam12_66 (CS2), Sombrero_68 (CS2), Squibbles_66 (CS2), SteveFrench_66 (CS2), Teal_64 (CS3),

Start 10:

- Found in 26 of 61 (42.6%) of genes in pham
- Manual Annotations of this start: 20 of 50
- Called 92.3% of time when present
- Phage (with cluster) where this start called: Anamika_64 (CS3), Berries_64 (CS3), Bianmat_64 (CS3), Charianelly_63 (CS3), Damp_62 (CS3), GalacticEye_64 (CS3), Guillaume_64 (CS3), Hail2Pitt_63 (CS3), Harambe_64 (CS3), Hello_64 (CS3), Jams_64 (CS3), Jormungandr_64 (CS3), Kaseim_64 (CS3), Lahirium_64 (CS3), Lidong_64 (CS3), Luker_65 (CS3), Minos_65 (CS3), MrWormie_64 (CS3), Neoevie_64 (CS3), Newt_65 (CS3), Nimi13_64 (CS3), Shelley_64 (CS3), Sticker17_64 (CS3), Woes_64 (CS3),

Summary by clusters:

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

Info for manual annotations of cluster CS2:

- Start number 9 was manually annotated 29 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 9 was manually annotated 1 time for cluster CS3.
- Start number 10 was manually annotated 20 times for cluster CS3.

Gene Information:

Gene: Adgers_70 Start: 55737, Stop: 55603, Start Num: 9

Candidate Starts for Adgers_70:

(Start: 9 @55737 has 30 MA's),

Gene: Anamika_64 Start: 55918, Stop: 55790, Start Num: 10

Candidate Starts for Anamika_64:

(Start: 9 @55921 has 30 MA's), (Start: 10 @55918 has 20 MA's),

Gene: Barbochs_66 Start: 55111, Stop: 54977, Start Num: 9

Candidate Starts for Barbochs_66:

(2, 55636), (3, 55630), (4, 55624), (5, 55342), (Start: 9 @55111 has 30 MA's),

Gene: Beaver_70 Start: 57055, Stop: 56921, Start Num: 9

Candidate Starts for Beaver_70:

(4, 57568), (5, 57286), (Start: 9 @57055 has 30 MA's),

Gene: BenoitCattle_68 Start: 55690, Stop: 55556, Start Num: 9

Candidate Starts for BenoitCattle_68:

(7, 55825), (Start: 9 @55690 has 30 MA's),

Gene: Berries_64 Start: 55890, Stop: 55762, Start Num: 10

Candidate Starts for Berries_64:

(Start: 9 @55893 has 30 MA's), (Start: 10 @55890 has 20 MA's),

Gene: Bianmat_64 Start: 55930, Stop: 55802, Start Num: 10

Candidate Starts for Bianmat_64:

(Start: 9 @55933 has 30 MA's), (Start: 10 @55930 has 20 MA's),

Gene: BigShaq_66 Start: 55695, Stop: 55561, Start Num: 9

Candidate Starts for BigShaq_66:

(6, 55878), (Start: 9 @55695 has 30 MA's),

Gene: BirksAndSocks_71 Start: 57195, Stop: 57061, Start Num: 9

Candidate Starts for BirksAndSocks_71:

(2, 57720), (3, 57714), (4, 57708), (5, 57426), (Start: 9 @57195 has 30 MA's),

Gene: Boneham_70 Start: 57120, Stop: 56986, Start Num: 9

Candidate Starts for Boneham_70:

(5, 57351), (Start: 9 @57120 has 30 MA's),

Gene: Breezic_67 Start: 55292, Stop: 55158, Start Num: 9

Candidate Starts for Breezic_67:

(4, 55805), (5, 55523), (Start: 9 @55292 has 30 MA's),

Gene: Butterball_69 Start: 57125, Stop: 56991, Start Num: 9

Candidate Starts for Butterball_69:

(5, 57356), (Start: 9 @57125 has 30 MA's),

Gene: CathyBurgh_66 Start: 55806, Stop: 55672, Start Num: 9

Candidate Starts for CathyBurgh_66:

(4, 56319), (5, 56037), (Start: 9 @55806 has 30 MA's),

Gene: Charianelly_63 Start: 55640, Stop: 55512, Start Num: 10

Candidate Starts for Charianelly_63:

(Start: 9 @55643 has 30 MA's), (Start: 10 @55640 has 20 MA's),

Gene: Chelms_66 Start: 55634, Stop: 55500, Start Num: 9

Candidate Starts for Chelms_66:

(7, 55769), (Start: 9 @55634 has 30 MA's),

Gene: Dakiti_67 Start: 56502, Stop: 56368, Start Num: 9

Candidate Starts for Dakiti_67:

(7, 56637), (Start: 9 @56502 has 30 MA's),

Gene: Damp_62 Start: 54804, Stop: 54676, Start Num: 10

Candidate Starts for Damp_62:

(Start: 9 @54807 has 30 MA's), (Start: 10 @54804 has 20 MA's),

Gene: Diabla_71 Start: 57203, Stop: 57069, Start Num: 9

Candidate Starts for Diabla_71:

(Start: 9 @57203 has 30 MA's),

Gene: Eggsie_66 Start: 55007, Stop: 54873, Start Num: 9

Candidate Starts for Eggsie_66:

(Start: 9 @55007 has 30 MA's),

Gene: Ekhein_67 Start: 54997, Stop: 54863, Start Num: 9

Candidate Starts for Ekhein_67:

(4, 55510), (5, 55228), (Start: 9 @54997 has 30 MA's),

Gene: Exiguo_66 Start: 55033, Stop: 54899, Start Num: 9

Candidate Starts for Exiguo_66:

(4, 55546), (5, 55264), (Start: 9 @55033 has 30 MA's),

Gene: FelixAlejandro_71 Start: 57523, Stop: 57389, Start Num: 9

Candidate Starts for FelixAlejandro_71:

(5, 57754), (Start: 9 @57523 has 30 MA's),

Gene: Flakey_66 Start: 55792, Stop: 55658, Start Num: 9

Candidate Starts for Flakey_66:

(4, 56305), (5, 56023), (Start: 9 @55792 has 30 MA's),

Gene: GalacticEye_64 Start: 55601, Stop: 55473, Start Num: 10

Candidate Starts for GalacticEye_64:

(Start: 9 @55604 has 30 MA's), (Start: 10 @55601 has 20 MA's),

Gene: Gorko_66 Start: 54938, Stop: 54804, Start Num: 9

Candidate Starts for Gorko_66:

(4, 55451), (5, 55169), (Start: 9 @54938 has 30 MA's),

Gene: GourdThymes_67 Start: 55893, Stop: 55759, Start Num: 9

Candidate Starts for GourdThymes_67:

(4, 56406), (5, 56124), (Start: 9 @55893 has 30 MA's),

Gene: Guillaume_64 Start: 55651, Stop: 55523, Start Num: 10

Candidate Starts for Guillaume_64:

(Start: 9 @55654 has 30 MA's), (Start: 10 @55651 has 20 MA's), (11, 55597),

Gene: Hail2Pitt_63 Start: 56127, Stop: 55999, Start Num: 10

Candidate Starts for Hail2Pitt_63:

(Start: 9 @56130 has 30 MA's), (Start: 10 @56127 has 20 MA's),

Gene: Harambe_64 Start: 55918, Stop: 55790, Start Num: 10

Candidate Starts for Harambe_64:

(Start: 9 @55921 has 30 MA's), (Start: 10 @55918 has 20 MA's),

Gene: Hello_64 Start: 55880, Stop: 55752, Start Num: 10

Candidate Starts for Hello_64:

(Start: 9 @55883 has 30 MA's), (Start: 10 @55880 has 20 MA's),

Gene: Hotorobo_67 Start: 55880, Stop: 55746, Start Num: 9

Candidate Starts for Hotorobo_67:

(4, 56393), (5, 56111), (Start: 9 @55880 has 30 MA's),

Gene: Jams_64 Start: 55090, Stop: 54962, Start Num: 10

Candidate Starts for Jams_64:

(Start: 9 @55093 has 30 MA's), (Start: 10 @55090 has 20 MA's),

Gene: Jellybones_68 Start: 56808, Stop: 56674, Start Num: 9

Candidate Starts for Jellybones_68:

(2, 57333), (3, 57327), (4, 57321), (5, 57039), (Start: 9 @56808 has 30 MA's),

Gene: John316_70 Start: 56957, Stop: 56823, Start Num: 9

Candidate Starts for John316_70:

(4, 57470), (5, 57188), (Start: 9 @56957 has 30 MA's),

Gene: Jormungandr_64 Start: 55633, Stop: 55505, Start Num: 10

Candidate Starts for Jormungandr_64:

(Start: 9 @55636 has 30 MA's), (Start: 10 @55633 has 20 MA's),

Gene: Kaseim_64 Start: 55075, Stop: 54947, Start Num: 10

Candidate Starts for Kaseim_64:

(Start: 9 @55078 has 30 MA's), (Start: 10 @55075 has 20 MA's),

Gene: Lahirium_64 Start: 56155, Stop: 56027, Start Num: 10

Candidate Starts for Lahirium_64:

(Start: 9 @56158 has 30 MA's), (Start: 10 @56155 has 20 MA's),

Gene: Lidong_64 Start: 55890, Stop: 55762, Start Num: 10

Candidate Starts for Lidong_64:

(Start: 9 @55893 has 30 MA's), (Start: 10 @55890 has 20 MA's),

Gene: Linetti_66 Start: 56656, Stop: 56522, Start Num: 9

Candidate Starts for Linetti_66:

(7, 56791), (8, 56674), (Start: 9 @56656 has 30 MA's),

Gene: Lizzo_67 Start: 55806, Stop: 55672, Start Num: 9

Candidate Starts for Lizzo_67:

(4, 56319), (5, 56037), (Start: 9 @55806 has 30 MA's),

Gene: Luker_65 Start: 56108, Stop: 55980, Start Num: 10
Candidate Starts for Luker_65:
(Start: 9 @56111 has 30 MA's), (Start: 10 @56108 has 20 MA's),

Gene: Minos_65 Start: 55632, Stop: 55504, Start Num: 10
Candidate Starts for Minos_65:
(Start: 9 @55635 has 30 MA's), (Start: 10 @55632 has 20 MA's),

Gene: Monty_66 Start: 55019, Stop: 54885, Start Num: 9
Candidate Starts for Monty_66:
(4, 55532), (5, 55250), (Start: 9 @55019 has 30 MA's),

Gene: MrWormie_64 Start: 54793, Stop: 54665, Start Num: 10
Candidate Starts for MrWormie_64:
(Start: 9 @54796 has 30 MA's), (Start: 10 @54793 has 20 MA's),

Gene: Msay19_71 Start: 57409, Stop: 57275, Start Num: 9
Candidate Starts for Msay19_71:
(2, 57934), (3, 57928), (4, 57922), (5, 57640), (Start: 9 @57409 has 30 MA's),

Gene: Neoevie_64 Start: 55894, Stop: 55766, Start Num: 10
Candidate Starts for Neoevie_64:
(Start: 9 @55897 has 30 MA's), (Start: 10 @55894 has 20 MA's),

Gene: Newt_65 Start: 56122, Stop: 55994, Start Num: 10
Candidate Starts for Newt_65:
(Start: 9 @56125 has 30 MA's), (Start: 10 @56122 has 20 MA's),

Gene: Nimi13_64 Start: 55641, Stop: 55513, Start Num: 10
Candidate Starts for Nimi13_64:
(Start: 9 @55644 has 30 MA's), (Start: 10 @55641 has 20 MA's),

Gene: PierreThree_65 Start: 56133, Stop: 55999, Start Num: 9
Candidate Starts for PierreThree_65:
(7, 56268), (Start: 9 @56133 has 30 MA's),

Gene: PokyPuppy_66 Start: 56162, Stop: 56031, Start Num: 9
Candidate Starts for PokyPuppy_66:
(Start: 9 @56162 has 30 MA's), (Start: 10 @56159 has 20 MA's),

Gene: Poland_73 Start: 57388, Stop: 57254, Start Num: 9
Candidate Starts for Poland_73:
(2, 57913), (3, 57907), (4, 57901), (5, 57619), (Start: 9 @57388 has 30 MA's),

Gene: RemRem_68 Start: 55009, Stop: 54875, Start Num: 9
Candidate Starts for RemRem_68:
(4, 55522), (5, 55240), (Start: 9 @55009 has 30 MA's),

Gene: RoyalG_67 Start: 55637, Stop: 55503, Start Num: 9
Candidate Starts for RoyalG_67:
(Start: 9 @55637 has 30 MA's),

Gene: Sam12_66 Start: 55033, Stop: 54899, Start Num: 9

Candidate Starts for Sam12_66:

(4, 55546), (5, 55264), (Start: 9 @55033 has 30 MA's),

Gene: Shelley_64 Start: 55117, Stop: 54989, Start Num: 10

Candidate Starts for Shelley_64:

(Start: 9 @55120 has 30 MA's), (Start: 10 @55117 has 20 MA's),

Gene: Sombrero_68 Start: 55600, Stop: 55466, Start Num: 9

Candidate Starts for Sombrero_68:

(1, 56143), (2, 56125), (3, 56119), (4, 56113), (5, 55831), (Start: 9 @55600 has 30 MA's),

Gene: Squibbles_66 Start: 55872, Stop: 55738, Start Num: 9

Candidate Starts for Squibbles_66:

(4, 56385), (5, 56103), (Start: 9 @55872 has 30 MA's),

Gene: SteveFrench_66 Start: 55877, Stop: 55743, Start Num: 9

Candidate Starts for SteveFrench_66:

(5, 56111), (Start: 9 @55877 has 30 MA's),

Gene: Sticker17_64 Start: 55605, Stop: 55477, Start Num: 10

Candidate Starts for Sticker17_64:

(Start: 9 @55608 has 30 MA's), (Start: 10 @55605 has 20 MA's),

Gene: Teal_64 Start: 56102, Stop: 55971, Start Num: 9

Candidate Starts for Teal_64:

(Start: 9 @56102 has 30 MA's), (Start: 10 @56099 has 20 MA's),

Gene: Woes_64 Start: 56150, Stop: 56022, Start Num: 10

Candidate Starts for Woes_64:

(Start: 9 @56153 has 30 MA's), (Start: 10 @56150 has 20 MA's),