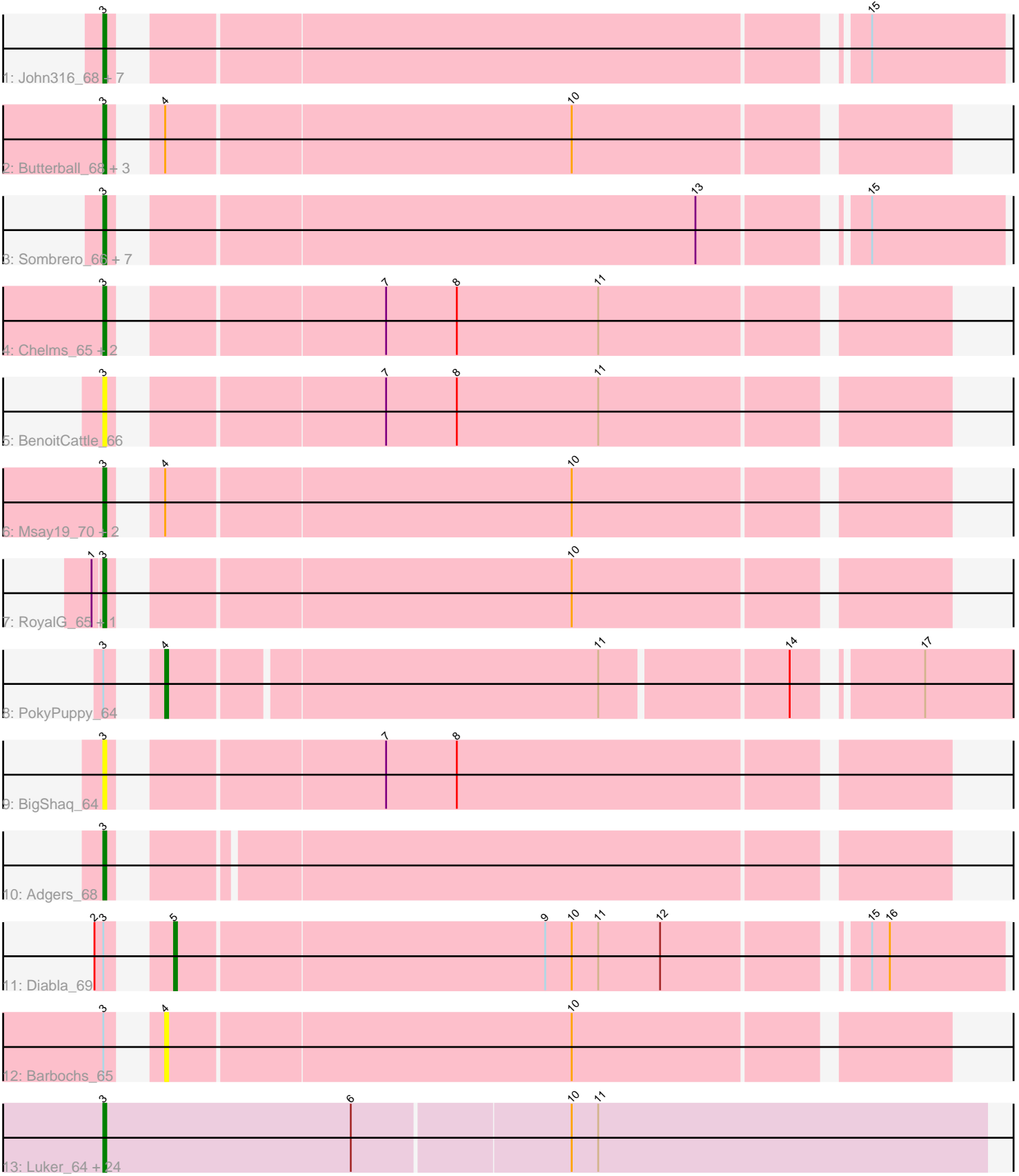


Pham 85756



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 85756 Report

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

Pham number 85756 has 59 members, 10 are drafts.

Phages represented in each track:

- Track 1 : John316_68, GourdThymes_65, Monty_64, Hotorobo_65, Flakey_64, Ekhein_65, RemRem_66, Breezic_65
- Track 2 : Butterball_68, FelixAlejandro_70, Poland_72, Boneham_69
- Track 3 : Sombrero_66, Squibbles_64, Gorko_64, Beaver_68, Lizzo_65, CathyBurgh_64, Exiguo_64, Sam12_64
- Track 4 : Chelms_65, Dakiti_66, PierreThree_64
- Track 5 : BenoitCattle_66
- Track 6 : Msay19_70, BirksAndSocks_70, Jellybones_67
- Track 7 : RoyalG_65, SteveFrench_64
- Track 8 : PokyPuppy_64
- Track 9 : BigShaq_64
- Track 10 : Adgers_68
- Track 11 : Diabla_69
- Track 12 : Barbochs_65
- Track 13 : Luker_64, Jams_63, Hello_63, Newt_64, Hail2Pitt_62, Woes_63, Anamika_63, Charianelly_62, Nimi13_63, Kaseim_63, Lidong_63, Bianmat_63, Minos_64, Guillaume_63, Damp_61, GalacticEye_63, Lahirium_63, Teal_63, Harambe_63, Jormungandr_63, Berries_63, Neoevie_63, MrWormie_63, Shelley_63, Sticker17_63

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

The start number called the most often in the published annotations is 3, it was called in 47 of the 49 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers_68, Anamika_63, Beaver_68, BenoitCattle_66, Berries_63, Bianmat_63, BigShaq_64, BirksAndSocks_70, Boneham_69, Breezic_65, Butterball_68, CathyBurgh_64, Charianelly_62, Chelms_65, Dakiti_66, Damp_61, Ekhein_65, Exiguo_64, FelixAlejandro_70, Flakey_64, GalacticEye_63, Gorko_64, GourdThymes_65, Guillaume_63, Hail2Pitt_62, Harambe_63, Hello_63, Hotorobo_65, Jams_63, Jellybones_67, John316_68, Jormungandr_63, Kaseim_63, Lahirium_63, Lidong_63, Lizzo_65, Luker_64, Minos_64, Monty_64, MrWormie_63, Msay19_70, Neoevie_63, Newt_64, Nimi13_63, PierreThree_64, Poland_72,

RemRem_66, RoyalG_65, Sam12_64, Shelley_63, Sombrero_66, Squibbles_64, SteveFrench_64, Sticker17_63, Teal_63, Woes_63,

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

- Barbochs_65, Diabla_69, PokyPuppy_64,

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

•

Summary by start number:

Start 3:

- Found in 59 of 59 (100.0%) of genes in pham
- Manual Annotations of this start: 47 of 49
- Called 94.9% of time when present
- Phage (with cluster) where this start called: Adgers_68 (CS2), Anamika_63 (CS3), Beaver_68 (CS2), BenoitCattle_66 (CS2), Berries_63 (CS3), Bianmat_63 (CS3), BigShaq_64 (CS2), BirksAndSocks_70 (CS2), Boneham_69 (CS2), Breezic_65 (CS2), Butterball_68 (CS2), CathyBurgh_64 (CS2), Charianelly_62 (CS3), Chelms_65 (CS2), Dakiti_66 (CS2), Damp_61 (CS3), Ekhein_65 (CS2), Exiguo_64 (CS2), FelixAlejandro_70 (CS2), Flakey_64 (CS2), GalacticEye_63 (CS3), Gorko_64 (CS2), GourdThymes_65 (CS2), Guillaume_63 (CS3), Hail2Pitt_62 (CS3), Harambe_63 (CS3), Hello_63 (CS3), Hotorobo_65 (CS2), Jams_63 (CS3), Jellybones_67 (CS2), John316_68 (CS2), Jormungandr_63 (CS3), Kaseim_63 (CS3), Lahirium_63 (CS3), Lidong_63 (CS3), Lizzo_65 (CS2), Luker_64 (CS3), Minos_64 (CS3), Monty_64 (CS2), MrWormie_63 (CS3), Msay19_70 (CS2), Neoevie_63 (CS3), Newt_64 (CS3), Nimi13_63 (CS3), PierreThree_64 (CS2), Poland_72 (CS2), RemRem_66 (CS2), RoyalG_65 (CS2), Sam12_64 (CS2), Shelley_63 (CS3), Sombrero_66 (CS2), Squibbles_64 (CS2), SteveFrench_64 (CS2), Sticker17_63 (CS3), Teal_63 (CS3), Woes_63 (CS3),

Start 4:

- Found in 9 of 59 (15.3%) of genes in pham
- Manual Annotations of this start: 1 of 49
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Barbochs_65 (CS2), PokyPuppy_64 (CS2),

Start 5:

- Found in 1 of 59 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 49
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Diabla_69 (CS2),

Summary by clusters:

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

Info for manual annotations of cluster CS2:

- Start number 3 was manually annotated 26 times for cluster CS2.
- Start number 4 was manually annotated 1 time for cluster CS2.
- Start number 5 was manually annotated 1 time for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 3 was manually annotated 21 times for cluster CS3.

Gene Information:

Gene: Adgers_68 Start: 55419, Stop: 55159, Start Num: 3

Candidate Starts for Adgers_68:

(Start: 3 @55419 has 47 MA's),

Gene: Anamika_63 Start: 55793, Stop: 55497, Start Num: 3

Candidate Starts for Anamika_63:

(Start: 3 @55793 has 47 MA's), (6, 55709), (10, 55637), (11, 55628),

Gene: Barbochs_65 Start: 54971, Stop: 54717, Start Num: 4

Candidate Starts for Barbochs_65:

(Start: 3 @54980 has 47 MA's), (Start: 4 @54971 has 1 MA's), (10, 54836),

Gene: Beaver_68 Start: 56737, Stop: 56459, Start Num: 3

Candidate Starts for Beaver_68:

(Start: 3 @56737 has 47 MA's), (13, 56551), (15, 56503),

Gene: BenoitCattle_66 Start: 55372, Stop: 55109, Start Num: 3

Candidate Starts for BenoitCattle_66:

(Start: 3 @55372 has 47 MA's), (7, 55291), (8, 55267), (11, 55219),

Gene: Berries_63 Start: 55765, Stop: 55469, Start Num: 3

Candidate Starts for Berries_63:

(Start: 3 @55765 has 47 MA's), (6, 55681), (10, 55609), (11, 55600),

Gene: Bianmat_63 Start: 55805, Stop: 55509, Start Num: 3

Candidate Starts for Bianmat_63:

(Start: 3 @55805 has 47 MA's), (6, 55721), (10, 55649), (11, 55640),

Gene: BigShaq_64 Start: 55377, Stop: 55114, Start Num: 3

Candidate Starts for BigShaq_64:

(Start: 3 @55377 has 47 MA's), (7, 55296), (8, 55272),

Gene: BirksAndSocks_70 Start: 57064, Stop: 56801, Start Num: 3

Candidate Starts for BirksAndSocks_70:

(Start: 3 @57064 has 47 MA's), (Start: 4 @57055 has 1 MA's), (10, 56920),

Gene: Boneham_69 Start: 56989, Stop: 56726, Start Num: 3

Candidate Starts for Boneham_69:

(Start: 3 @56989 has 47 MA's), (Start: 4 @56980 has 1 MA's), (10, 56845),

Gene: Breezic_65 Start: 54974, Stop: 54696, Start Num: 3

Candidate Starts for Breezic_65:

(Start: 3 @54974 has 47 MA's), (15, 54740),

Gene: Butterball_68 Start: 56994, Stop: 56731, Start Num: 3

Candidate Starts for Butterball_68:

(Start: 3 @56994 has 47 MA's), (Start: 4 @56985 has 1 MA's), (10, 56850),

Gene: CathyBurgh_64 Start: 55569, Stop: 55291, Start Num: 3

Candidate Starts for CathyBurgh_64:

(Start: 3 @55569 has 47 MA's), (13, 55383), (15, 55335),

Gene: Charianelly_62 Start: 55515, Stop: 55219, Start Num: 3

Candidate Starts for Charianelly_62:

(Start: 3 @55515 has 47 MA's), (6, 55431), (10, 55359), (11, 55350),

Gene: Chelms_65 Start: 55503, Stop: 55240, Start Num: 3

Candidate Starts for Chelms_65:

(Start: 3 @55503 has 47 MA's), (7, 55422), (8, 55398), (11, 55350),

Gene: Dakiti_66 Start: 56371, Stop: 56108, Start Num: 3

Candidate Starts for Dakiti_66:

(Start: 3 @56371 has 47 MA's), (7, 56290), (8, 56266), (11, 56218),

Gene: Damp_61 Start: 54679, Stop: 54383, Start Num: 3

Candidate Starts for Damp_61:

(Start: 3 @54679 has 47 MA's), (6, 54595), (10, 54523), (11, 54514),

Gene: Diabla_69 Start: 56975, Stop: 56709, Start Num: 5

Candidate Starts for Diabla_69:

(2, 56990), (Start: 3 @56987 has 47 MA's), (Start: 5 @56975 has 1 MA's), (9, 56852), (10, 56843), (11, 56834), (12, 56813), (15, 56753), (16, 56747),

Gene: Ekhein_65 Start: 54679, Stop: 54401, Start Num: 3

Candidate Starts for Ekhein_65:

(Start: 3 @54679 has 47 MA's), (15, 54445),

Gene: Exiguo_64 Start: 54715, Stop: 54437, Start Num: 3

Candidate Starts for Exiguo_64:

(Start: 3 @54715 has 47 MA's), (13, 54529), (15, 54481),

Gene: FelixAlejandro_70 Start: 57392, Stop: 57129, Start Num: 3

Candidate Starts for FelixAlejandro_70:

(Start: 3 @57392 has 47 MA's), (Start: 4 @57383 has 1 MA's), (10, 57248),

Gene: Flakey_64 Start: 55555, Stop: 55277, Start Num: 3

Candidate Starts for Flakey_64:

(Start: 3 @55555 has 47 MA's), (15, 55321),

Gene: GalacticEye_63 Start: 55476, Stop: 55180, Start Num: 3

Candidate Starts for GalacticEye_63:

(Start: 3 @55476 has 47 MA's), (6, 55392), (10, 55320), (11, 55311),

Gene: Gorko_64 Start: 54701, Stop: 54423, Start Num: 3

Candidate Starts for Gorko_64:

(Start: 3 @54701 has 47 MA's), (13, 54515), (15, 54467),

Gene: GourdThymes_65 Start: 55575, Stop: 55297, Start Num: 3

Candidate Starts for GourdThymes_65:

(Start: 3 @55575 has 47 MA's), (15, 55341),

Gene: Guillaume_63 Start: 55526, Stop: 55230, Start Num: 3

Candidate Starts for Guillaume_63:

(Start: 3 @55526 has 47 MA's), (6, 55442), (10, 55370), (11, 55361),

Gene: Hail2Pitt_62 Start: 56002, Stop: 55706, Start Num: 3

Candidate Starts for Hail2Pitt_62:

(Start: 3 @56002 has 47 MA's), (6, 55918), (10, 55846), (11, 55837),

Gene: Harambe_63 Start: 55793, Stop: 55497, Start Num: 3

Candidate Starts for Harambe_63:

(Start: 3 @55793 has 47 MA's), (6, 55709), (10, 55637), (11, 55628),

Gene: Hello_63 Start: 55755, Stop: 55459, Start Num: 3

Candidate Starts for Hello_63:

(Start: 3 @55755 has 47 MA's), (6, 55671), (10, 55599), (11, 55590),

Gene: Hotorobo_65 Start: 55562, Stop: 55284, Start Num: 3

Candidate Starts for Hotorobo_65:

(Start: 3 @55562 has 47 MA's), (15, 55328),

Gene: Jams_63 Start: 54965, Stop: 54669, Start Num: 3

Candidate Starts for Jams_63:

(Start: 3 @54965 has 47 MA's), (6, 54881), (10, 54809), (11, 54800),

Gene: Jellybones_67 Start: 56677, Stop: 56414, Start Num: 3

Candidate Starts for Jellybones_67:

(Start: 3 @56677 has 47 MA's), (Start: 4 @56668 has 1 MA's), (10, 56533),

Gene: John316_68 Start: 56720, Stop: 56442, Start Num: 3

Candidate Starts for John316_68:

(Start: 3 @56720 has 47 MA's), (15, 56486),

Gene: Jormungandr_63 Start: 55508, Stop: 55212, Start Num: 3

Candidate Starts for Jormungandr_63:

(Start: 3 @55508 has 47 MA's), (6, 55424), (10, 55352), (11, 55343),

Gene: Kaseim_63 Start: 54950, Stop: 54654, Start Num: 3

Candidate Starts for Kaseim_63:

(Start: 3 @54950 has 47 MA's), (6, 54866), (10, 54794), (11, 54785),

Gene: Lahirium_63 Start: 56030, Stop: 55734, Start Num: 3

Candidate Starts for Lahirium_63:

(Start: 3 @56030 has 47 MA's), (6, 55946), (10, 55874), (11, 55865),

Gene: Lidong_63 Start: 55765, Stop: 55469, Start Num: 3

Candidate Starts for Lidong_63:

(Start: 3 @55765 has 47 MA's), (6, 55681), (10, 55609), (11, 55600),

Gene: Lizzo_65 Start: 55569, Stop: 55291, Start Num: 3

Candidate Starts for Lizzo_65:

(Start: 3 @55569 has 47 MA's), (13, 55383), (15, 55335),

Gene: Luker_64 Start: 55983, Stop: 55687, Start Num: 3
Candidate Starts for Luker_64:
(Start: 3 @55983 has 47 MA's), (6, 55899), (10, 55827), (11, 55818),

Gene: Minos_64 Start: 55507, Stop: 55211, Start Num: 3
Candidate Starts for Minos_64:
(Start: 3 @55507 has 47 MA's), (6, 55423), (10, 55351), (11, 55342),

Gene: Monty_64 Start: 54701, Stop: 54423, Start Num: 3
Candidate Starts for Monty_64:
(Start: 3 @54701 has 47 MA's), (15, 54467),

Gene: MrWormie_63 Start: 54668, Stop: 54372, Start Num: 3
Candidate Starts for MrWormie_63:
(Start: 3 @54668 has 47 MA's), (6, 54584), (10, 54512), (11, 54503),

Gene: Msay19_70 Start: 57278, Stop: 57015, Start Num: 3
Candidate Starts for Msay19_70:
(Start: 3 @57278 has 47 MA's), (Start: 4 @57269 has 1 MA's), (10, 57134),

Gene: Neoevie_63 Start: 55769, Stop: 55473, Start Num: 3
Candidate Starts for Neoevie_63:
(Start: 3 @55769 has 47 MA's), (6, 55685), (10, 55613), (11, 55604),

Gene: Newt_64 Start: 55997, Stop: 55701, Start Num: 3
Candidate Starts for Newt_64:
(Start: 3 @55997 has 47 MA's), (6, 55913), (10, 55841), (11, 55832),

Gene: Nimi13_63 Start: 55516, Stop: 55220, Start Num: 3
Candidate Starts for Nimi13_63:
(Start: 3 @55516 has 47 MA's), (6, 55432), (10, 55360), (11, 55351),

Gene: PierreThree_64 Start: 56002, Stop: 55739, Start Num: 3
Candidate Starts for PierreThree_64:
(Start: 3 @56002 has 47 MA's), (7, 55921), (8, 55897), (11, 55849),

Gene: PokyPuppy_64 Start: 55934, Stop: 55662, Start Num: 4
Candidate Starts for PokyPuppy_64:
(Start: 3 @55943 has 47 MA's), (Start: 4 @55934 has 1 MA's), (11, 55793), (14, 55733), (17, 55697),

Gene: Poland_72 Start: 57257, Stop: 56994, Start Num: 3
Candidate Starts for Poland_72:
(Start: 3 @57257 has 47 MA's), (Start: 4 @57248 has 1 MA's), (10, 57113),

Gene: RemRem_66 Start: 54691, Stop: 54413, Start Num: 3
Candidate Starts for RemRem_66:
(Start: 3 @54691 has 47 MA's), (15, 54457),

Gene: RoyalG_65 Start: 55418, Stop: 55155, Start Num: 3
Candidate Starts for RoyalG_65:
(1, 55421), (Start: 3 @55418 has 47 MA's), (10, 55274),

Gene: Sam12_64 Start: 54715, Stop: 54437, Start Num: 3

Candidate Starts for Sam12_64:

(Start: 3 @54715 has 47 MA's), (13, 54529), (15, 54481),

Gene: Shelley_63 Start: 54992, Stop: 54696, Start Num: 3

Candidate Starts for Shelley_63:

(Start: 3 @54992 has 47 MA's), (6, 54908), (10, 54836), (11, 54827),

Gene: Sombrero_66 Start: 55282, Stop: 55004, Start Num: 3

Candidate Starts for Sombrero_66:

(Start: 3 @55282 has 47 MA's), (13, 55096), (15, 55048),

Gene: Squibbles_64 Start: 55554, Stop: 55276, Start Num: 3

Candidate Starts for Squibbles_64:

(Start: 3 @55554 has 47 MA's), (13, 55368), (15, 55320),

Gene: SteveFrench_64 Start: 55658, Stop: 55395, Start Num: 3

Candidate Starts for SteveFrench_64:

(1, 55661), (Start: 3 @55658 has 47 MA's), (10, 55514),

Gene: Sticker17_63 Start: 55480, Stop: 55184, Start Num: 3

Candidate Starts for Sticker17_63:

(Start: 3 @55480 has 47 MA's), (6, 55396), (10, 55324), (11, 55315),

Gene: Teal_63 Start: 55974, Stop: 55678, Start Num: 3

Candidate Starts for Teal_63:

(Start: 3 @55974 has 47 MA's), (6, 55890), (10, 55818), (11, 55809),

Gene: Woes_63 Start: 56025, Stop: 55729, Start Num: 3

Candidate Starts for Woes_63:

(Start: 3 @56025 has 47 MA's), (6, 55941), (10, 55869), (11, 55860),