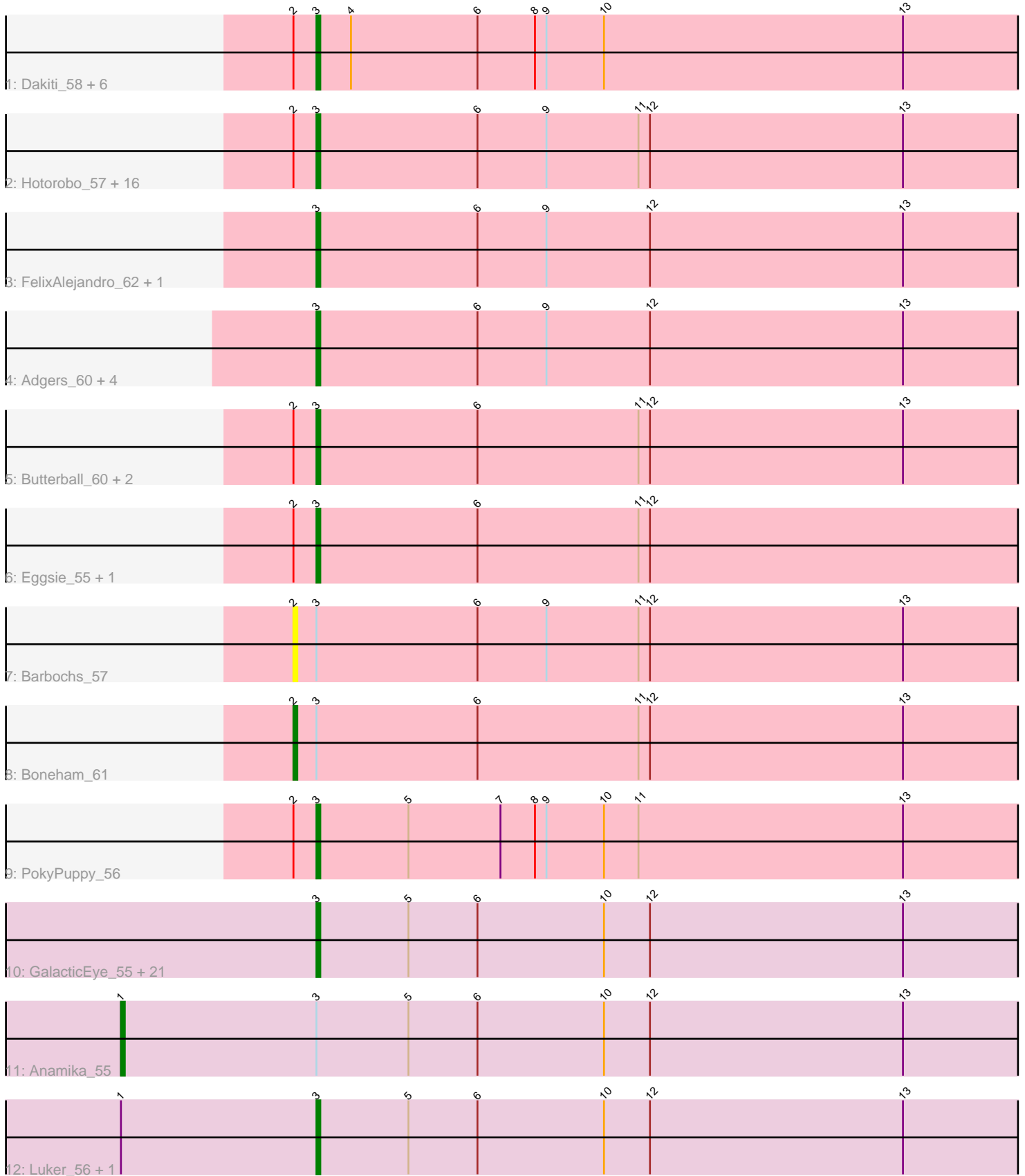


Pham 217936



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 217936 Report

This analysis was run 03/28/25 on database version 593.

Pham number 217936 has 64 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Dakiti_58, PierreThree_56, Chelms_57, Crete_58, BigShaq_57, BenoitCattle_57, Linetti_57
- Track 2 : Hotorobo_57, Flakey_56, Monty_56, Squibbles_56, BirksAndSocks_62, Exiguo_56, RemRem_58, Lizzo_57, John316_60, Sam12_56, Breezic_57, GourdThymes_57, Gorko_56, CathyBurgh_56, Worcestershire_57, Ekhein_57, Beaver_60
- Track 3 : FelixAlejandro_62, Sombrero_58
- Track 4 : Adgers_60, Poland_62, Msay19_62, CinnamonToast_63, Jellybones_59
- Track 5 : Butterball_60, SteveFrench_56, RoyalG_57
- Track 6 : Eggsie_55, Diabla_61
- Track 7 : Barbochs_57
- Track 8 : Boneham_61
- Track 9 : PokyPuppy_56
- Track 10 : GalacticEye_55, Woes_55, Bianmat_55, Sticker17_55, Berries_55, Hello_55, Jams_55, Guillaume_55, Harambe_55, Lahirium_55, Shelley_55, Teal_55, Newt_56, Kaseim_55, MrWormie_55, Neoevie_55, Minos_56, Jormungandr_55, Charianelly_55, Nimi13_55, Damp_55, Lidong_55
- Track 11 : Anamika_55
- Track 12 : Luker_56, Hail2Pitt_54

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 55 of the 57 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers_60, Beaver_60, BenoitCattle_57, Berries_55, Bianmat_55, BigShaq_57, BirksAndSocks_62, Breezic_57, Butterball_60, CathyBurgh_56, Charianelly_55, Chelms_57, CinnamonToast_63, Crete_58, Dakiti_58, Damp_55, Diabla_61, Eggsie_55, Ekhein_57, Exiguo_56, FelixAlejandro_62, Flakey_56, GalacticEye_55, Gorko_56, GourdThymes_57, Guillaume_55, Hail2Pitt_54, Harambe_55, Hello_55, Hotorobo_57, Jams_55, Jellybones_59, John316_60, Jormungandr_55, Kaseim_55, Lahirium_55, Lidong_55, Linetti_57, Lizzo_57, Luker_56, Minos_56, Monty_56, MrWormie_55, Msay19_62, Neoevie_55, Newt_56, Nimi13_55, PierreThree_56,

PokyPuppy_56, Poland_62, RemRem_58, RoyalG_57, Sam12_56, Shelley_55, Sombrero_58, Squibbles_56, SteveFrench_56, Sticker17_55, Teal_55, Woes_55, Worcestershire_57,

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

- Anamika_55, Barbochs_57, Boneham_61,

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

-

Summary by start number:

Start 1:

- Found in 3 of 64 (4.7%) of genes in pham
- Manual Annotations of this start: 1 of 57
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Anamika_55 (CS3),

Start 2:

- Found in 32 of 64 (50.0%) of genes in pham
- Manual Annotations of this start: 1 of 57
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Barbochs_57 (CS2), Boneham_61 (CS2),

Start 3:

- Found in 64 of 64 (100.0%) of genes in pham
- Manual Annotations of this start: 55 of 57
- Called 95.3% of time when present
- Phage (with cluster) where this start called: Adgers_60 (CS2), Beaver_60 (CS2), BenoitCattle_57 (CS2), Berries_55 (CS3), Bianmat_55 (CS3), BigShaq_57 (CS2), BirksAndSocks_62 (CS2), Breezic_57 (CS2), Butterball_60 (CS2), CathyBurgh_56 (CS2), Charianelly_55 (CS3), Chelms_57 (CS2), CinnamonToast_63 (CS2), Crete_58 (CS2), Dakiti_58 (CS2), Damp_55 (CS3), Diabla_61 (CS2), Eggsie_55 (CS2), Ekhein_57 (CS2), Exiguo_56 (CS2), FelixAlejandro_62 (CS2), Flakey_56 (CS2), GalacticEye_55 (CS3), Gorko_56 (CS2), GourdThymes_57 (CS2), Guillaume_55 (CS3), Hail2Pitt_54 (CS3), Harambe_55 (CS3), Hello_55 (CS3), Hotorobo_57 (CS2), Jams_55 (CS3), Jellybones_59 (CS2), John316_60 (CS2), Jormungandr_55 (CS3), Kaseim_55 (CS3), Lahirium_55 (CS3), Lidong_55 (CS3), Linetti_57 (CS2), Lizzo_57 (CS2), Luker_56 (CS3), Minos_56 (CS3), Monty_56 (CS2), MrWormie_55 (CS3), Msay19_62 (CS2), Neoevie_55 (CS3), Newt_56 (CS3), Nimi13_55 (CS3), PierreThree_56 (CS2), PokyPuppy_56 (CS2), Poland_62 (CS2), RemRem_58 (CS2), RoyalG_57 (CS2), Sam12_56 (CS2), Shelley_55 (CS3), Sombrero_58 (CS2), Squibbles_56 (CS2), SteveFrench_56 (CS2), Sticker17_55 (CS3), Teal_55 (CS3), Woes_55 (CS3), Worcestershire_57 (CS2),

Summary by clusters:

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

Info for manual annotations of cluster CS2:

- Start number 2 was manually annotated 1 time for cluster CS2.
- Start number 3 was manually annotated 32 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 1 was manually annotated 1 time for cluster CS3.
- Start number 3 was manually annotated 23 times for cluster CS3.

Gene Information:

Gene: Adgers_60 Start: 50114, Stop: 49920, Start Num: 3

Candidate Starts for Adgers_60:

(Start: 3 @50114 has 55 MA's), (6, 50072), (9, 50054), (12, 50027), (13, 49961),

Gene: Anamika_55 Start: 50962, Stop: 50717, Start Num: 1

Candidate Starts for Anamika_55:

(Start: 1 @50962 has 1 MA's), (Start: 3 @50911 has 55 MA's), (5, 50887), (6, 50869), (10, 50836), (12, 50824), (13, 50758),

Gene: Barbochs_57 Start: 49664, Stop: 49464, Start Num: 2

Candidate Starts for Barbochs_57:

(Start: 2 @49664 has 1 MA's), (Start: 3 @49658 has 55 MA's), (6, 49616), (9, 49598), (11, 49574), (12, 49571), (13, 49505),

Gene: Beaver_60 Start: 51428, Stop: 51234, Start Num: 3

Candidate Starts for Beaver_60:

(Start: 2 @51434 has 1 MA's), (Start: 3 @51428 has 55 MA's), (6, 51386), (9, 51368), (11, 51344), (12, 51341), (13, 51275),

Gene: BenoitCattle_57 Start: 50065, Stop: 49871, Start Num: 3

Candidate Starts for BenoitCattle_57:

(Start: 2 @50071 has 1 MA's), (Start: 3 @50065 has 55 MA's), (4, 50056), (6, 50023), (8, 50008), (9, 50005), (10, 49990), (13, 49912),

Gene: Berries_55 Start: 50883, Stop: 50689, Start Num: 3

Candidate Starts for Berries_55:

(Start: 3 @50883 has 55 MA's), (5, 50859), (6, 50841), (10, 50808), (12, 50796), (13, 50730),

Gene: Bianmat_55 Start: 50923, Stop: 50729, Start Num: 3

Candidate Starts for Bianmat_55:

(Start: 3 @50923 has 55 MA's), (5, 50899), (6, 50881), (10, 50848), (12, 50836), (13, 50770),

Gene: BigShaq_57 Start: 50070, Stop: 49876, Start Num: 3

Candidate Starts for BigShaq_57:

(Start: 2 @50076 has 1 MA's), (Start: 3 @50070 has 55 MA's), (4, 50061), (6, 50028), (8, 50013), (9, 50010), (10, 49995), (13, 49917),

Gene: BirksAndSocks_62 Start: 51778, Stop: 51584, Start Num: 3

Candidate Starts for BirksAndSocks_62:

(Start: 2 @51784 has 1 MA's), (Start: 3 @51778 has 55 MA's), (6, 51736), (9, 51718), (11, 51694), (12, 51691), (13, 51625),

Gene: Boneham_61 Start: 51685, Stop: 51485, Start Num: 2

Candidate Starts for Boneham_61:

(Start: 2 @51685 has 1 MA's), (Start: 3 @51679 has 55 MA's), (6, 51637), (11, 51595), (12, 51592), (13, 51526),

Gene: Breezic_57 Start: 49671, Stop: 49477, Start Num: 3

Candidate Starts for Breezic_57:

(Start: 2 @49677 has 1 MA's), (Start: 3 @49671 has 55 MA's), (6, 49629), (9, 49611), (11, 49587), (12, 49584), (13, 49518),

Gene: Butterball_60 Start: 51684, Stop: 51490, Start Num: 3

Candidate Starts for Butterball_60:

(Start: 2 @51690 has 1 MA's), (Start: 3 @51684 has 55 MA's), (6, 51642), (11, 51600), (12, 51597), (13, 51531),

Gene: CathyBurgh_56 Start: 50248, Stop: 50054, Start Num: 3

Candidate Starts for CathyBurgh_56:

(Start: 2 @50254 has 1 MA's), (Start: 3 @50248 has 55 MA's), (6, 50206), (9, 50188), (11, 50164), (12, 50161), (13, 50095),

Gene: Charianelly_55 Start: 50633, Stop: 50439, Start Num: 3

Candidate Starts for Charianelly_55:

(Start: 3 @50633 has 55 MA's), (5, 50609), (6, 50591), (10, 50558), (12, 50546), (13, 50480),

Gene: Chelms_57 Start: 50214, Stop: 50020, Start Num: 3

Candidate Starts for Chelms_57:

(Start: 2 @50220 has 1 MA's), (Start: 3 @50214 has 55 MA's), (4, 50205), (6, 50172), (8, 50157), (9, 50154), (10, 50139), (13, 50061),

Gene: CinnamonToast_63 Start: 51738, Stop: 51544, Start Num: 3

Candidate Starts for CinnamonToast_63:

(Start: 3 @51738 has 55 MA's), (6, 51696), (9, 51678), (12, 51651), (13, 51585),

Gene: Crete_58 Start: 50336, Stop: 50142, Start Num: 3

Candidate Starts for Crete_58:

(Start: 2 @50342 has 1 MA's), (Start: 3 @50336 has 55 MA's), (4, 50327), (6, 50294), (8, 50279), (9, 50276), (10, 50261), (13, 50183),

Gene: Dakiti_58 Start: 51082, Stop: 50888, Start Num: 3

Candidate Starts for Dakiti_58:

(Start: 2 @51088 has 1 MA's), (Start: 3 @51082 has 55 MA's), (4, 51073), (6, 51040), (8, 51025), (9, 51022), (10, 51007), (13, 50929),

Gene: Damp_55 Start: 49797, Stop: 49603, Start Num: 3

Candidate Starts for Damp_55:

(Start: 3 @49797 has 55 MA's), (5, 49773), (6, 49755), (10, 49722), (12, 49710), (13, 49644),

Gene: Diabla_61 Start: 51737, Stop: 51543, Start Num: 3

Candidate Starts for Diabla_61:

(Start: 2 @51743 has 1 MA's), (Start: 3 @51737 has 55 MA's), (6, 51695), (11, 51653), (12, 51650),

Gene: Eggsie_55 Start: 49514, Stop: 49320, Start Num: 3

Candidate Starts for Eggsie_55:

(Start: 2 @49520 has 1 MA's), (Start: 3 @49514 has 55 MA's), (6, 49472), (11, 49430), (12, 49427),

Gene: Ekhein_57 Start: 49376, Stop: 49182, Start Num: 3

Candidate Starts for Ekhein_57:

(Start: 2 @49382 has 1 MA's), (Start: 3 @49376 has 55 MA's), (6, 49334), (9, 49316), (11, 49292), (12, 49289), (13, 49223),

Gene: Exiguo_56 Start: 49388, Stop: 49194, Start Num: 3

Candidate Starts for Exiguo_56:

(Start: 2 @49394 has 1 MA's), (Start: 3 @49388 has 55 MA's), (6, 49346), (9, 49328), (11, 49304), (12, 49301), (13, 49235),

Gene: FelixAlejandro_62 Start: 52082, Stop: 51888, Start Num: 3

Candidate Starts for FelixAlejandro_62:

(Start: 3 @52082 has 55 MA's), (6, 52040), (9, 52022), (12, 51995), (13, 51929),

Gene: Flakey_56 Start: 50252, Stop: 50058, Start Num: 3

Candidate Starts for Flakey_56:

(Start: 2 @50258 has 1 MA's), (Start: 3 @50252 has 55 MA's), (6, 50210), (9, 50192), (11, 50168), (12, 50165), (13, 50099),

Gene: GalacticEye_55 Start: 50594, Stop: 50400, Start Num: 3

Candidate Starts for GalacticEye_55:

(Start: 3 @50594 has 55 MA's), (5, 50570), (6, 50552), (10, 50519), (12, 50507), (13, 50441),

Gene: Gorko_56 Start: 49380, Stop: 49186, Start Num: 3

Candidate Starts for Gorko_56:

(Start: 2 @49386 has 1 MA's), (Start: 3 @49380 has 55 MA's), (6, 49338), (9, 49320), (11, 49296), (12, 49293), (13, 49227),

Gene: GourdThymes_57 Start: 50254, Stop: 50060, Start Num: 3

Candidate Starts for GourdThymes_57:

(Start: 2 @50260 has 1 MA's), (Start: 3 @50254 has 55 MA's), (6, 50212), (9, 50194), (11, 50170), (12, 50167), (13, 50101),

Gene: Guillaume_55 Start: 50644, Stop: 50450, Start Num: 3

Candidate Starts for Guillaume_55:

(Start: 3 @50644 has 55 MA's), (5, 50620), (6, 50602), (10, 50569), (12, 50557), (13, 50491),

Gene: Hail2Pitt_54 Start: 51120, Stop: 50926, Start Num: 3

Candidate Starts for Hail2Pitt_54:

(Start: 1 @51171 has 1 MA's), (Start: 3 @51120 has 55 MA's), (5, 51096), (6, 51078), (10, 51045), (12, 51033), (13, 50967),

Gene: Harambe_55 Start: 50911, Stop: 50717, Start Num: 3

Candidate Starts for Harambe_55:

(Start: 3 @50911 has 55 MA's), (5, 50887), (6, 50869), (10, 50836), (12, 50824), (13, 50758),

Gene: Hello_55 Start: 50873, Stop: 50679, Start Num: 3

Candidate Starts for Hello_55:

(Start: 3 @50873 has 55 MA's), (5, 50849), (6, 50831), (10, 50798), (12, 50786), (13, 50720),

Gene: Hotorobo_57 Start: 50259, Stop: 50065, Start Num: 3

Candidate Starts for Hotorobo_57:

(Start: 2 @50265 has 1 MA's), (Start: 3 @50259 has 55 MA's), (6, 50217), (9, 50199), (11, 50175), (12, 50172), (13, 50106),

Gene: Jams_55 Start: 50083, Stop: 49889, Start Num: 3

Candidate Starts for Jams_55:

(Start: 3 @50083 has 55 MA's), (5, 50059), (6, 50041), (10, 50008), (12, 49996), (13, 49930),

Gene: Jellybones_59 Start: 51354, Stop: 51160, Start Num: 3

Candidate Starts for Jellybones_59:

(Start: 3 @51354 has 55 MA's), (6, 51312), (9, 51294), (12, 51267), (13, 51201),

Gene: John316_60 Start: 51417, Stop: 51223, Start Num: 3

Candidate Starts for John316_60:

(Start: 2 @51423 has 1 MA's), (Start: 3 @51417 has 55 MA's), (6, 51375), (9, 51357), (11, 51333), (12, 51330), (13, 51264),

Gene: Jormungandr_55 Start: 50626, Stop: 50432, Start Num: 3

Candidate Starts for Jormungandr_55:

(Start: 3 @50626 has 55 MA's), (5, 50602), (6, 50584), (10, 50551), (12, 50539), (13, 50473),

Gene: Kaseim_55 Start: 50068, Stop: 49874, Start Num: 3

Candidate Starts for Kaseim_55:

(Start: 3 @50068 has 55 MA's), (5, 50044), (6, 50026), (10, 49993), (12, 49981), (13, 49915),

Gene: Lahirium_55 Start: 51148, Stop: 50954, Start Num: 3

Candidate Starts for Lahirium_55:

(Start: 3 @51148 has 55 MA's), (5, 51124), (6, 51106), (10, 51073), (12, 51061), (13, 50995),

Gene: Lidong_55 Start: 50883, Stop: 50689, Start Num: 3

Candidate Starts for Lidong_55:

(Start: 3 @50883 has 55 MA's), (5, 50859), (6, 50841), (10, 50808), (12, 50796), (13, 50730),

Gene: Linetti_57 Start: 51067, Stop: 50873, Start Num: 3

Candidate Starts for Linetti_57:

(Start: 2 @51073 has 1 MA's), (Start: 3 @51067 has 55 MA's), (4, 51058), (6, 51025), (8, 51010), (9, 51007), (10, 50992), (13, 50914),

Gene: Lizzo_57 Start: 50248, Stop: 50054, Start Num: 3

Candidate Starts for Lizzo_57:

(Start: 2 @50254 has 1 MA's), (Start: 3 @50248 has 55 MA's), (6, 50206), (9, 50188), (11, 50164), (12, 50161), (13, 50095),

Gene: Luker_56 Start: 51101, Stop: 50907, Start Num: 3

Candidate Starts for Luker_56:

(Start: 1 @51152 has 1 MA's), (Start: 3 @51101 has 55 MA's), (5, 51077), (6, 51059), (10, 51026), (12, 51014), (13, 50948),

Gene: Minos_56 Start: 50625, Stop: 50431, Start Num: 3

Candidate Starts for Minos_56:

(Start: 3 @50625 has 55 MA's), (5, 50601), (6, 50583), (10, 50550), (12, 50538), (13, 50472),

Gene: Monty_56 Start: 49398, Stop: 49204, Start Num: 3

Candidate Starts for Monty_56:

(Start: 2 @49404 has 1 MA's), (Start: 3 @49398 has 55 MA's), (6, 49356), (9, 49338), (11, 49314), (12, 49311), (13, 49245),

Gene: MrWormie_55 Start: 49786, Stop: 49592, Start Num: 3

Candidate Starts for MrWormie_55:

(Start: 3 @49786 has 55 MA's), (5, 49762), (6, 49744), (10, 49711), (12, 49699), (13, 49633),

Gene: Msay19_62 Start: 51968, Stop: 51774, Start Num: 3

Candidate Starts for Msay19_62:

(Start: 3 @51968 has 55 MA's), (6, 51926), (9, 51908), (12, 51881), (13, 51815),

Gene: Neoevie_55 Start: 50887, Stop: 50693, Start Num: 3

Candidate Starts for Neoevie_55:

(Start: 3 @50887 has 55 MA's), (5, 50863), (6, 50845), (10, 50812), (12, 50800), (13, 50734),

Gene: Newt_56 Start: 51115, Stop: 50921, Start Num: 3

Candidate Starts for Newt_56:

(Start: 3 @51115 has 55 MA's), (5, 51091), (6, 51073), (10, 51040), (12, 51028), (13, 50962),

Gene: Nimi13_55 Start: 50634, Stop: 50440, Start Num: 3

Candidate Starts for Nimi13_55:

(Start: 3 @50634 has 55 MA's), (5, 50610), (6, 50592), (10, 50559), (12, 50547), (13, 50481),

Gene: PierreThree_56 Start: 50713, Stop: 50519, Start Num: 3

Candidate Starts for PierreThree_56:

(Start: 2 @50719 has 1 MA's), (Start: 3 @50713 has 55 MA's), (4, 50704), (6, 50671), (8, 50656), (9, 50653), (10, 50638), (13, 50560),

Gene: PokyPuppy_56 Start: 50707, Stop: 50513, Start Num: 3

Candidate Starts for PokyPuppy_56:

(Start: 2 @50713 has 1 MA's), (Start: 3 @50707 has 55 MA's), (5, 50683), (7, 50659), (8, 50650), (9, 50647), (10, 50632), (11, 50623), (13, 50554),

Gene: Poland_62 Start: 51947, Stop: 51753, Start Num: 3

Candidate Starts for Poland_62:

(Start: 3 @51947 has 55 MA's), (6, 51905), (9, 51887), (12, 51860), (13, 51794),

Gene: RemRem_58 Start: 49388, Stop: 49194, Start Num: 3

Candidate Starts for RemRem_58:

(Start: 2 @49394 has 1 MA's), (Start: 3 @49388 has 55 MA's), (6, 49346), (9, 49328), (11, 49304), (12, 49301), (13, 49235),

Gene: RoyalG_57 Start: 50163, Stop: 49969, Start Num: 3

Candidate Starts for RoyalG_57:

(Start: 2 @50169 has 1 MA's), (Start: 3 @50163 has 55 MA's), (6, 50121), (11, 50079), (12, 50076), (13, 50010),

Gene: Sam12_56 Start: 49388, Stop: 49194, Start Num: 3

Candidate Starts for Sam12_56:

(Start: 2 @49394 has 1 MA's), (Start: 3 @49388 has 55 MA's), (6, 49346), (9, 49328), (11, 49304), (12, 49301), (13, 49235),

Gene: Shelley_55 Start: 50110, Stop: 49916, Start Num: 3

Candidate Starts for Shelley_55:

(Start: 3 @50110 has 55 MA's), (5, 50086), (6, 50068), (10, 50035), (12, 50023), (13, 49957),

Gene: Sombrero_58 Start: 49955, Stop: 49761, Start Num: 3

Candidate Starts for Sombrero_58:

(Start: 3 @49955 has 55 MA's), (6, 49913), (9, 49895), (12, 49868), (13, 49802),

Gene: Squibbles_56 Start: 50251, Stop: 50057, Start Num: 3

Candidate Starts for Squibbles_56:

(Start: 2 @50257 has 1 MA's), (Start: 3 @50251 has 55 MA's), (6, 50209), (9, 50191), (11, 50167), (12, 50164), (13, 50098),

Gene: SteveFrench_56 Start: 50403, Stop: 50209, Start Num: 3

Candidate Starts for SteveFrench_56:

(Start: 2 @50409 has 1 MA's), (Start: 3 @50403 has 55 MA's), (6, 50361), (11, 50319), (12, 50316), (13, 50250),

Gene: Sticker17_55 Start: 50625, Stop: 50431, Start Num: 3

Candidate Starts for Sticker17_55:

(Start: 3 @50625 has 55 MA's), (5, 50601), (6, 50583), (10, 50550), (12, 50538), (13, 50472),

Gene: Teal_55 Start: 51092, Stop: 50898, Start Num: 3

Candidate Starts for Teal_55:

(Start: 3 @51092 has 55 MA's), (5, 51068), (6, 51050), (10, 51017), (12, 51005), (13, 50939),

Gene: Woes_55 Start: 51143, Stop: 50949, Start Num: 3

Candidate Starts for Woes_55:

(Start: 3 @51143 has 55 MA's), (5, 51119), (6, 51101), (10, 51068), (12, 51056), (13, 50990),

Gene: Worcestershire_57 Start: 49390, Stop: 49196, Start Num: 3

Candidate Starts for Worcestershire_57:

(Start: 2 @49396 has 1 MA's), (Start: 3 @49390 has 55 MA's), (6, 49348), (9, 49330), (11, 49306), (12, 49303), (13, 49237),