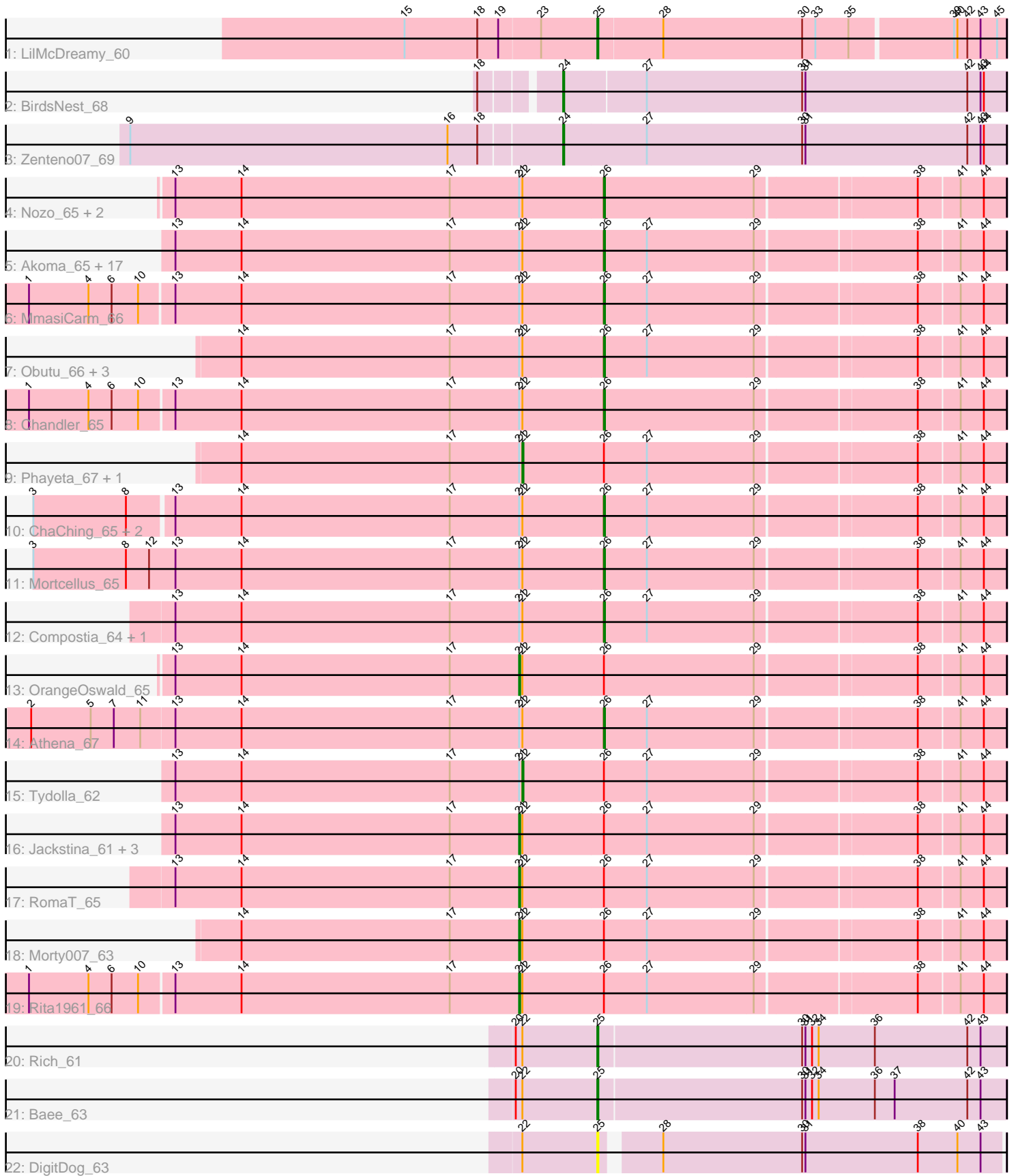


Pham 1934



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 1934 Report

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

Pham number 1934 has 51 members, 4 are drafts.

Phages represented in each track:

- Track 1 : LilMcDreamy_60
- Track 2 : BirdsNest_68
- Track 3 : Zenteno07_69
- Track 4 : Nozo_65, SynergyX_65, Devonte_64
- Track 5 : Akoma_65, Audrey_65, Heathcliff_65, Yinz_65, Phaedrus_60, RagingRooster_64, LestyG_63, Baloo_64, Ben11_65, Daisy_64, Gervas_66, Abinghost_65, HarveySr_64, Casbah_65, Kamiyu_65, GlenHope_66, Kronus_65, Halfpint_64
- Track 6 : MmasiCarm_66
- Track 7 : Obutu_66, Briakila_64, Marley1013_65, SlippinJimmy_67
- Track 8 : Chandler_65
- Track 9 : Phayeta_67, Neos5_64
- Track 10 : ChaChing_65, Gadjet_66, Yahalom_63
- Track 11 : Mortcellus_65
- Track 12 : Compostia_64, Phlyer_65
- Track 13 : OrangeOswald_65
- Track 14 : Athena_67
- Track 15 : Tydolla_62
- Track 16 : Jackstina_61, Corofin_65, Philly_64, Deenasa_65
- Track 17 : RomaT_65
- Track 18 : Morty007_63
- Track 19 : Rita1961_66
- Track 20 : Rich_61
- Track 21 : Baee_63
- Track 22 : DigitDog_63

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

The start number called the most often in the published annotations is 26, it was called in 31 of the 47 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost_65, Akoma_65, Athena_67, Audrey_65, Baloo_64, Ben11_65, Briakila_64, Casbah_65, ChaChing_65, Chandler_65, Compostia_64, Daisy_64,

Devonte_64, Gadget_66, Gervas_66, GlenHope_66, Halfpint_64, HarveySr_64, Heathcliff_65, Kamiyu_65, Kronus_65, LestyG_63, Marley1013_65, MmasiCarm_66, Mortcellus_65, Nozo_65, Obutu_66, Phaedrus_60, Phlyer_65, RagingRooster_64, SlippinJimmy_67, SynergyX_65, Yahalom_63, Yinz_65,

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

- Corofin_65, Deenasa_65, Jackstina_61, Morty007_63, Neos5_64, OrangeOswald_65, Phayeta_67, Philly_64, Rita1961_66, RomaT_65, Tydolla_62,

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

- Baee_63, BirdsNest_68, DigitDog_63, LilMcDreamy_60, Rich_61, Zenteno07_69,

Summary by start number:

Start 21:

- Found in 45 of 51 (88.2%) of genes in pham
- Manual Annotations of this start: 8 of 47
- Called 17.8% of time when present
- Phage (with cluster) where this start called: Corofin_65 (B3), Deenasa_65 (B3), Jackstina_61 (B3), Morty007_63 (B3), OrangeOswald_65 (B3), Philly_64 (B3), Rita1961_66 (B3), RomaT_65 (B3),

Start 22:

- Found in 48 of 51 (94.1%) of genes in pham
- Manual Annotations of this start: 3 of 47
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Neos5_64 (B3), Phayeta_67 (B3), Tydolla_62 (B3),

Start 24:

- Found in 2 of 51 (3.9%) of genes in pham
- Manual Annotations of this start: 2 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdsNest_68 (B13), Zenteno07_69 (B13),

Start 25:

- Found in 4 of 51 (7.8%) of genes in pham
- Manual Annotations of this start: 3 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Baee_63 (B5), DigitDog_63 (B5), LilMcDreamy_60 (B12), Rich_61 (B5),

Start 26:

- Found in 45 of 51 (88.2%) of genes in pham
- Manual Annotations of this start: 31 of 47
- Called 75.6% of time when present
- Phage (with cluster) where this start called: Abinghost_65 (B3), Akoma_65 (B3), Athena_67 (B3), Audrey_65 (B3), Baloo_64 (B3), Ben11_65 (B3), Briakila_64 (B3), Casbah_65 (B3), ChaChing_65 (B3), Chandler_65 (B3), Compostia_64 (B3), Daisy_64 (B3), Devonte_64 (B3), Gadget_66 (B3), Gervas_66 (B3), GlenHope_66 (B3), Halfpint_64 (B3), HarveySr_64 (B3), Heathcliff_65 (B3), Kamiyu_65 (B3), Kronus_65 (B3), LestyG_63 (B3), Marley1013_65 (B3), MmasiCarm_66 (B3),

Mortcellus_65 (B3), Nozo_65 (B3), Obutu_66 (B3), Phaedrus_60 (B3), Phlyer_65 (B3), RagingRooster_64 (B3), SlippinJimmy_67 (B3), SynergyX_65 (B3), Yahalom_63 (B3), Yinz_65 (B3),

Summary by clusters:

There are 4 clusters represented in this pham: B5, B12, B13, B3,

Info for manual annotations of cluster B12:

- Start number 25 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 24 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B3:

- Start number 21 was manually annotated 8 times for cluster B3.
- Start number 22 was manually annotated 3 times for cluster B3.
- Start number 26 was manually annotated 31 times for cluster B3.

Info for manual annotations of cluster B5:

- Start number 25 was manually annotated 2 times for cluster B5.

Gene Information:

Gene: Abinghost_65 Start: 55695, Stop: 55345, Start Num: 26

Candidate Starts for Abinghost_65:

(13, 56082), (14, 56022), (17, 55833), (Start: 21 @55770 has 8 MA's), (Start: 22 @55767 has 3 MA's), (Start: 26 @55695 has 31 MA's), (27, 55656), (29, 55560), (38, 55422), (41, 55386), (44, 55365),

Gene: Akoma_65 Start: 55743, Stop: 55393, Start Num: 26

Candidate Starts for Akoma_65:

(13, 56130), (14, 56070), (17, 55881), (Start: 21 @55818 has 8 MA's), (Start: 22 @55815 has 3 MA's), (Start: 26 @55743 has 31 MA's), (27, 55704), (29, 55608), (38, 55470), (41, 55434), (44, 55413),

Gene: Athena_67 Start: 56478, Stop: 56128, Start Num: 26

Candidate Starts for Athena_67:

(2, 56994), (5, 56940), (7, 56919), (11, 56895), (13, 56865), (14, 56805), (17, 56616), (Start: 21 @56553 has 8 MA's), (Start: 22 @56550 has 3 MA's), (Start: 26 @56478 has 31 MA's), (27, 56439), (29, 56343), (38, 56205), (41, 56169), (44, 56148),

Gene: Audrey_65 Start: 55734, Stop: 55384, Start Num: 26

Candidate Starts for Audrey_65:

(13, 56121), (14, 56061), (17, 55872), (Start: 21 @55809 has 8 MA's), (Start: 22 @55806 has 3 MA's), (Start: 26 @55734 has 31 MA's), (27, 55695), (29, 55599), (38, 55461), (41, 55425), (44, 55404),

Gene: Baee_63 Start: 57265, Stop: 56897, Start Num: 25

Candidate Starts for Baee_63:

(20, 57337), (Start: 22 @57331 has 3 MA's), (Start: 25 @57265 has 3 MA's), (30, 57082), (31, 57079), (32, 57073), (34, 57067), (36, 57016), (37, 56998), (42, 56932), (43, 56920),

Gene: Baloo_64 Start: 55567, Stop: 55217, Start Num: 26

Candidate Starts for Baloo_64:

(13, 55954), (14, 55894), (17, 55705), (Start: 21 @55642 has 8 MA's), (Start: 22 @55639 has 3 MA's), (Start: 26 @55567 has 31 MA's), (27, 55528), (29, 55432), (38, 55294), (41, 55258), (44, 55237),

Gene: Ben11_65 Start: 55952, Stop: 55602, Start Num: 26

Candidate Starts for Ben11_65:

(13, 56339), (14, 56279), (17, 56090), (Start: 21 @56027 has 8 MA's), (Start: 22 @56024 has 3 MA's), (Start: 26 @55952 has 31 MA's), (27, 55913), (29, 55817), (38, 55679), (41, 55643), (44, 55622),

Gene: BirdsNest_68 Start: 56600, Stop: 56202, Start Num: 24

Candidate Starts for BirdsNest_68:

(18, 56663), (Start: 24 @56600 has 2 MA's), (27, 56528), (30, 56387), (31, 56384), (42, 56237), (43, 56225), (44, 56222),

Gene: Briakila_64 Start: 55709, Stop: 55359, Start Num: 26

Candidate Starts for Briakila_64:

(14, 56036), (17, 55847), (Start: 21 @55784 has 8 MA's), (Start: 22 @55781 has 3 MA's), (Start: 26 @55709 has 31 MA's), (27, 55670), (29, 55574), (38, 55436), (41, 55400), (44, 55379),

Gene: Casbah_65 Start: 56054, Stop: 55704, Start Num: 26

Candidate Starts for Casbah_65:

(13, 56441), (14, 56381), (17, 56192), (Start: 21 @56129 has 8 MA's), (Start: 22 @56126 has 3 MA's), (Start: 26 @56054 has 31 MA's), (27, 56015), (29, 55919), (38, 55781), (41, 55745), (44, 55724),

Gene: ChaChing_65 Start: 55754, Stop: 55404, Start Num: 26

Candidate Starts for ChaChing_65:

(3, 56264), (8, 56180), (13, 56141), (14, 56081), (17, 55892), (Start: 21 @55829 has 8 MA's), (Start: 22 @55826 has 3 MA's), (Start: 26 @55754 has 31 MA's), (27, 55715), (29, 55619), (38, 55481), (41, 55445), (44, 55424),

Gene: Chandler_65 Start: 56522, Stop: 56172, Start Num: 26

Candidate Starts for Chandler_65:

(1, 57038), (4, 56984), (6, 56963), (10, 56939), (13, 56909), (14, 56849), (17, 56660), (Start: 21 @56597 has 8 MA's), (Start: 22 @56594 has 3 MA's), (Start: 26 @56522 has 31 MA's), (29, 56387), (38, 56249), (41, 56213), (44, 56192),

Gene: Compostia_64 Start: 56141, Stop: 55791, Start Num: 26

Candidate Starts for Compostia_64:

(13, 56528), (14, 56468), (17, 56279), (Start: 21 @56216 has 8 MA's), (Start: 22 @56213 has 3 MA's), (Start: 26 @56141 has 31 MA's), (27, 56102), (29, 56006), (38, 55868), (41, 55832), (44, 55811),

Gene: Corofin_65 Start: 55840, Stop: 55415, Start Num: 21

Candidate Starts for Corofin_65:

(13, 56152), (14, 56092), (17, 55903), (Start: 21 @55840 has 8 MA's), (Start: 22 @55837 has 3 MA's), (Start: 26 @55765 has 31 MA's), (27, 55726), (29, 55630), (38, 55492), (41, 55456), (44, 55435),

Gene: Daisy_64 Start: 55298, Stop: 54948, Start Num: 26

Candidate Starts for Daisy_64:

(13, 55685), (14, 55625), (17, 55436), (Start: 21 @55373 has 8 MA's), (Start: 22 @55370 has 3 MA's), (Start: 26 @55298 has 31 MA's), (27, 55259), (29, 55163), (38, 55025), (41, 54989), (44, 54968),

Gene: Deenasa_65 Start: 56678, Stop: 56253, Start Num: 21

Candidate Starts for Deenasa_65:

(13, 56990), (14, 56930), (17, 56741), (Start: 21 @56678 has 8 MA's), (Start: 22 @56675 has 3 MA's), (Start: 26 @56603 has 31 MA's), (27, 56564), (29, 56468), (38, 56330), (41, 56294), (44, 56273),

Gene: Devonte_64 Start: 55377, Stop: 55027, Start Num: 26

Candidate Starts for Devonte_64:

(13, 55764), (14, 55704), (17, 55515), (Start: 21 @55452 has 8 MA's), (Start: 22 @55449 has 3 MA's), (Start: 26 @55377 has 31 MA's), (29, 55242), (38, 55104), (41, 55068), (44, 55047),

Gene: DigitDog_63 Start: 56398, Stop: 56048, Start Num: 25

Candidate Starts for DigitDog_63:

(Start: 22 @56464 has 3 MA's), (Start: 25 @56398 has 3 MA's), (28, 56353), (30, 56227), (31, 56224), (38, 56122), (40, 56086), (43, 56065),

Gene: Gadget_66 Start: 56075, Stop: 55725, Start Num: 26

Candidate Starts for Gadget_66:

(3, 56585), (8, 56501), (13, 56462), (14, 56402), (17, 56213), (Start: 21 @56150 has 8 MA's), (Start: 22 @56147 has 3 MA's), (Start: 26 @56075 has 31 MA's), (27, 56036), (29, 55940), (38, 55802), (41, 55766), (44, 55745),

Gene: Gervas_66 Start: 56159, Stop: 55809, Start Num: 26

Candidate Starts for Gervas_66:

(13, 56546), (14, 56486), (17, 56297), (Start: 21 @56234 has 8 MA's), (Start: 22 @56231 has 3 MA's), (Start: 26 @56159 has 31 MA's), (27, 56120), (29, 56024), (38, 55886), (41, 55850), (44, 55829),

Gene: GlenHope_66 Start: 55733, Stop: 55383, Start Num: 26

Candidate Starts for GlenHope_66:

(13, 56120), (14, 56060), (17, 55871), (Start: 21 @55808 has 8 MA's), (Start: 22 @55805 has 3 MA's), (Start: 26 @55733 has 31 MA's), (27, 55694), (29, 55598), (38, 55460), (41, 55424), (44, 55403),

Gene: Halfpint_64 Start: 55478, Stop: 55128, Start Num: 26

Candidate Starts for Halfpint_64:

(13, 55865), (14, 55805), (17, 55616), (Start: 21 @55553 has 8 MA's), (Start: 22 @55550 has 3 MA's), (Start: 26 @55478 has 31 MA's), (27, 55439), (29, 55343), (38, 55205), (41, 55169), (44, 55148),

Gene: HarveySr_64 Start: 55323, Stop: 54973, Start Num: 26

Candidate Starts for HarveySr_64:

(13, 55710), (14, 55650), (17, 55461), (Start: 21 @55398 has 8 MA's), (Start: 22 @55395 has 3 MA's), (Start: 26 @55323 has 31 MA's), (27, 55284), (29, 55188), (38, 55050), (41, 55014), (44, 54993),

Gene: Heathcliff_65 Start: 55700, Stop: 55350, Start Num: 26

Candidate Starts for Heathcliff_65:

(13, 56087), (14, 56027), (17, 55838), (Start: 21 @55775 has 8 MA's), (Start: 22 @55772 has 3 MA's), (Start: 26 @55700 has 31 MA's), (27, 55661), (29, 55565), (38, 55427), (41, 55391), (44, 55370),

Gene: Jackstina_61 Start: 55700, Stop: 55275, Start Num: 21

Candidate Starts for Jackstina_61:

(13, 56012), (14, 55952), (17, 55763), (Start: 21 @55700 has 8 MA's), (Start: 22 @55697 has 3 MA's), (Start: 26 @55625 has 31 MA's), (27, 55586), (29, 55490), (38, 55352), (41, 55316), (44, 55295),

Gene: Kamiyu_65 Start: 55702, Stop: 55352, Start Num: 26

Candidate Starts for Kamiyu_65:

(13, 56089), (14, 56029), (17, 55840), (Start: 21 @55777 has 8 MA's), (Start: 22 @55774 has 3 MA's), (Start: 26 @55702 has 31 MA's), (27, 55663), (29, 55567), (38, 55429), (41, 55393), (44, 55372),

Gene: Kronus_65 Start: 56790, Stop: 56440, Start Num: 26

Candidate Starts for Kronus_65:

(13, 57177), (14, 57117), (17, 56928), (Start: 21 @56865 has 8 MA's), (Start: 22 @56862 has 3 MA's), (Start: 26 @56790 has 31 MA's), (27, 56751), (29, 56655), (38, 56517), (41, 56481), (44, 56460),

Gene: LestyG_63 Start: 55220, Stop: 54870, Start Num: 26

Candidate Starts for LestyG_63:

(13, 55607), (14, 55547), (17, 55358), (Start: 21 @55295 has 8 MA's), (Start: 22 @55292 has 3 MA's), (Start: 26 @55220 has 31 MA's), (27, 55181), (29, 55085), (38, 54947), (41, 54911), (44, 54890),

Gene: LilMcDreamy_60 Start: 55966, Stop: 55604, Start Num: 25

Candidate Starts for LilMcDreamy_60:

(15, 56137), (18, 56071), (19, 56053), (23, 56017), (Start: 25 @55966 has 3 MA's), (28, 55909), (30, 55783), (33, 55771), (35, 55741), (39, 55651), (40, 55648), (42, 55639), (43, 55627), (45, 55612),

Gene: Marley1013_65 Start: 56418, Stop: 56068, Start Num: 26

Candidate Starts for Marley1013_65:

(14, 56745), (17, 56556), (Start: 21 @56493 has 8 MA's), (Start: 22 @56490 has 3 MA's), (Start: 26 @56418 has 31 MA's), (27, 56379), (29, 56283), (38, 56145), (41, 56109), (44, 56088),

Gene: MmasiCarm_66 Start: 56147, Stop: 55797, Start Num: 26

Candidate Starts for MmasiCarm_66:

(1, 56663), (4, 56609), (6, 56588), (10, 56564), (13, 56534), (14, 56474), (17, 56285), (Start: 21 @56222 has 8 MA's), (Start: 22 @56219 has 3 MA's), (Start: 26 @56147 has 31 MA's), (27, 56108), (29, 56012), (38, 55874), (41, 55838), (44, 55817),

Gene: Mortcellus_65 Start: 56805, Stop: 56455, Start Num: 26

Candidate Starts for Mortcellus_65:

(3, 57321), (8, 57237), (12, 57216), (13, 57192), (14, 57132), (17, 56943), (Start: 21 @56880 has 8 MA's), (Start: 22 @56877 has 3 MA's), (Start: 26 @56805 has 31 MA's), (27, 56766), (29, 56670), (38, 56532), (41, 56496), (44, 56475),

Gene: Morty007_63 Start: 56493, Stop: 56068, Start Num: 21

Candidate Starts for Morty007_63:

(14, 56745), (17, 56556), (Start: 21 @56493 has 8 MA's), (Start: 22 @56490 has 3 MA's), (Start: 26 @56418 has 31 MA's), (27, 56379), (29, 56283), (38, 56145), (41, 56109), (44, 56088),

Gene: Neos5_64 Start: 55952, Stop: 55530, Start Num: 22

Candidate Starts for Neos5_64:

(14, 56207), (17, 56018), (Start: 21 @55955 has 8 MA's), (Start: 22 @55952 has 3 MA's), (Start: 26 @55880 has 31 MA's), (27, 55841), (29, 55745), (38, 55607), (41, 55571), (44, 55550),

Gene: Nozo_65 Start: 56501, Stop: 56151, Start Num: 26

Candidate Starts for Nozo_65:

(13, 56888), (14, 56828), (17, 56639), (Start: 21 @56576 has 8 MA's), (Start: 22 @56573 has 3 MA's), (Start: 26 @56501 has 31 MA's), (29, 56366), (38, 56228), (41, 56192), (44, 56171),

Gene: Obutu_66 Start: 56100, Stop: 55750, Start Num: 26

Candidate Starts for Obutu_66:

(14, 56427), (17, 56238), (Start: 21 @56175 has 8 MA's), (Start: 22 @56172 has 3 MA's), (Start: 26 @56100 has 31 MA's), (27, 56061), (29, 55965), (38, 55827), (41, 55791), (44, 55770),

Gene: OrangeOswald_65 Start: 55817, Stop: 55392, Start Num: 21

Candidate Starts for OrangeOswald_65:

(13, 56129), (14, 56069), (17, 55880), (Start: 21 @55817 has 8 MA's), (Start: 22 @55814 has 3 MA's), (Start: 26 @55742 has 31 MA's), (29, 55607), (38, 55469), (41, 55433), (44, 55412),

Gene: Phaedrus_60 Start: 55175, Stop: 54825, Start Num: 26

Candidate Starts for Phaedrus_60:

(13, 55562), (14, 55502), (17, 55313), (Start: 21 @55250 has 8 MA's), (Start: 22 @55247 has 3 MA's), (Start: 26 @55175 has 31 MA's), (27, 55136), (29, 55040), (38, 54902), (41, 54866), (44, 54845),

Gene: Phayeta_67 Start: 56076, Stop: 55654, Start Num: 22

Candidate Starts for Phayeta_67:

(14, 56331), (17, 56142), (Start: 21 @56079 has 8 MA's), (Start: 22 @56076 has 3 MA's), (Start: 26 @56004 has 31 MA's), (27, 55965), (29, 55869), (38, 55731), (41, 55695), (44, 55674),

Gene: Philly_64 Start: 55637, Stop: 55212, Start Num: 21

Candidate Starts for Philly_64:

(13, 55949), (14, 55889), (17, 55700), (Start: 21 @55637 has 8 MA's), (Start: 22 @55634 has 3 MA's), (Start: 26 @55562 has 31 MA's), (27, 55523), (29, 55427), (38, 55289), (41, 55253), (44, 55232),

Gene: Phlyer_65 Start: 56456, Stop: 56106, Start Num: 26

Candidate Starts for Phlyer_65:

(13, 56843), (14, 56783), (17, 56594), (Start: 21 @56531 has 8 MA's), (Start: 22 @56528 has 3 MA's), (Start: 26 @56456 has 31 MA's), (27, 56417), (29, 56321), (38, 56183), (41, 56147), (44, 56126),

Gene: RagingRooster_64 Start: 55390, Stop: 55040, Start Num: 26

Candidate Starts for RagingRooster_64:

(13, 55777), (14, 55717), (17, 55528), (Start: 21 @55465 has 8 MA's), (Start: 22 @55462 has 3 MA's), (Start: 26 @55390 has 31 MA's), (27, 55351), (29, 55255), (38, 55117), (41, 55081), (44, 55060),

Gene: Rich_61 Start: 57326, Stop: 56958, Start Num: 25

Candidate Starts for Rich_61:

(20, 57398), (Start: 22 @57392 has 3 MA's), (Start: 25 @57326 has 3 MA's), (30, 57143), (31, 57140), (32, 57134), (34, 57128), (36, 57077), (42, 56993), (43, 56981),

Gene: Rita1961_66 Start: 56175, Stop: 55750, Start Num: 21

Candidate Starts for Rita1961_66:

(1, 56616), (4, 56562), (6, 56541), (10, 56517), (13, 56487), (14, 56427), (17, 56238), (Start: 21 @56175 has 8 MA's), (Start: 22 @56172 has 3 MA's), (Start: 26 @56100 has 31 MA's), (27, 56061), (29, 55965), (38, 55827), (41, 55791), (44, 55770),

Gene: RomaT_65 Start: 56374, Stop: 55949, Start Num: 21

Candidate Starts for RomaT_65:

(13, 56686), (14, 56626), (17, 56437), (Start: 21 @56374 has 8 MA's), (Start: 22 @56371 has 3 MA's), (Start: 26 @56299 has 31 MA's), (27, 56260), (29, 56164), (38, 56026), (41, 55990), (44, 55969),

Gene: SlippinJimmy_67 Start: 56900, Stop: 56550, Start Num: 26

Candidate Starts for SlippinJimmy_67:

(14, 57227), (17, 57038), (Start: 21 @56975 has 8 MA's), (Start: 22 @56972 has 3 MA's), (Start: 26 @56900 has 31 MA's), (27, 56861), (29, 56765), (38, 56627), (41, 56591), (44, 56570),

Gene: SynergyX_65 Start: 55739, Stop: 55389, Start Num: 26

Candidate Starts for SynergyX_65:

(13, 56126), (14, 56066), (17, 55877), (Start: 21 @55814 has 8 MA's), (Start: 22 @55811 has 3 MA's), (Start: 26 @55739 has 31 MA's), (29, 55604), (38, 55466), (41, 55430), (44, 55409),

Gene: Tydolla_62 Start: 55844, Stop: 55422, Start Num: 22

Candidate Starts for Tydolla_62:

(13, 56159), (14, 56099), (17, 55910), (Start: 21 @55847 has 8 MA's), (Start: 22 @55844 has 3 MA's), (Start: 26 @55772 has 31 MA's), (27, 55733), (29, 55637), (38, 55499), (41, 55463), (44, 55442),

Gene: Yahalom_63 Start: 55546, Stop: 55196, Start Num: 26

Candidate Starts for Yahalom_63:

(3, 56056), (8, 55972), (13, 55933), (14, 55873), (17, 55684), (Start: 21 @55621 has 8 MA's), (Start: 22 @55618 has 3 MA's), (Start: 26 @55546 has 31 MA's), (27, 55507), (29, 55411), (38, 55273), (41, 55237), (44, 55216),

Gene: Yinz_65 Start: 55609, Stop: 55259, Start Num: 26

Candidate Starts for Yinz_65:

(13, 55996), (14, 55936), (17, 55747), (Start: 21 @55684 has 8 MA's), (Start: 22 @55681 has 3 MA's), (Start: 26 @55609 has 31 MA's), (27, 55570), (29, 55474), (38, 55336), (41, 55300), (44, 55279),

Gene: Zenteno07_69 Start: 56800, Stop: 56399, Start Num: 24

Candidate Starts for Zenteno07_69:

(9, 57187), (16, 56899), (18, 56872), (Start: 24 @56800 has 2 MA's), (27, 56725), (30, 56584), (31, 56581), (42, 56434), (43, 56422), (44, 56419),