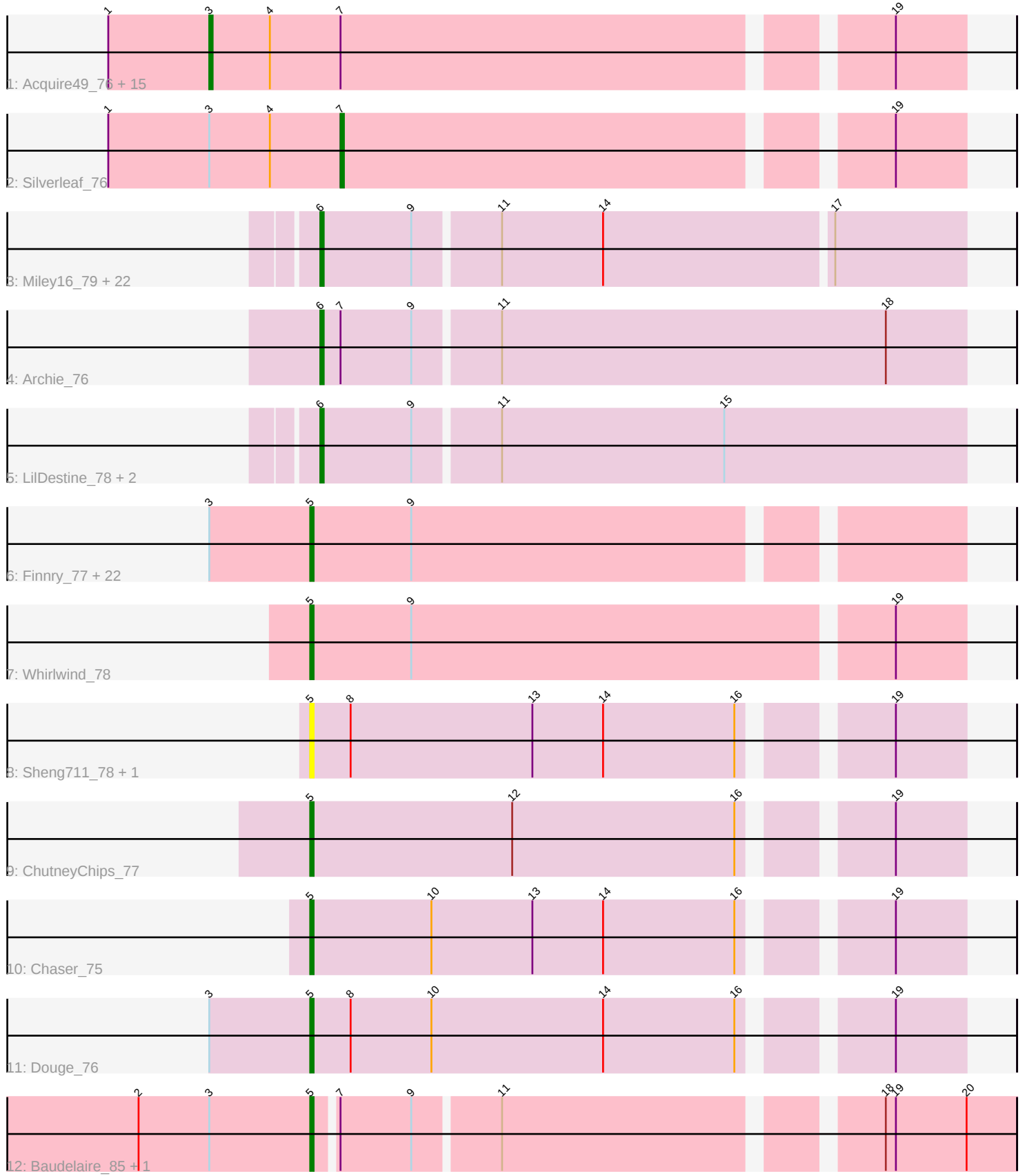


Pham 328982



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 328982 Report

This analysis was run 09/05/26 on database version 662.

Pham number 328982 has 75 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Acquire49_76, Enceladus_73, LeBron_75, MAckerman_74, Calm_78, Rose5_76, AvadaKedavra_76, Wamburggrxpress_76, Appletree2_75, Tyson_77, CicholasNage_73, UPIE_75, Zaria_77, Halena_74, DirkDirk_73, Wyatt2_77
- Track 2 : Silverleaf_76
- Track 3 : Miley16_79, Crossroads_79, SoJulia_81, Kahlid_79, Itos_78, Winky_79, DrSeegs_79, Sarshaun_80, Gabriela_78, Netyap_80, Breezona_79, MkaliMitinis3_80, Soap141_79, Lewan_80, BobsGarage_79, BigCheese_79, Faith1_79, GuuelaD_77, Loadrie_78, OverPar_80, Zakai_80, Wilder_80, Lynnae_81
- Track 4 : Archie_76
- Track 5 : LilDestine_78, Vetrix_78, DHan_82
- Track 6 : Finnry_77, Jobypre_77, Nicholas_75, Moostard_75, MsGreen_77, BourbonZero_78, Ellson_76, TriFive_78, Red305_78, Clautastrophe_75, Jubie_76, LiyuLake_76, Lolly9_76, MiniMac_81, Krypton555_78, Kingsolomon_75, Bellis_77, KirDoubleO7_75, DuncansLeg_77, Lumos_78, Samty_76, Snenia_76, MiniLon_81
- Track 7 : Whirlwind_78
- Track 8 : Sheng711_78, Quby_77
- Track 9 : ChutneyChips_77
- Track 10 : Chaser_75
- Track 11 : Douge_76
- Track 12 : Baudelaire_85, Aegeus_85

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

The start number called the most often in the published annotations is 5, it was called in 24 of the 63 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aegeus_85, Baudelaire_85, Bellis_77, BourbonZero_78, Chaser_75, ChutneyChips_77, Clautastrophe_75, Douge_76, DuncansLeg_77, Ellson_76, Finnry_77, Jobypre_77, Jubie_76, Kingsolomon_75, KirDoubleO7_75, Krypton555_78, LiyuLake_76, Lolly9_76, Lumos_78, MiniLon_81, MiniMac_81, Moostard_75, MsGreen_77, Nicholas_75, Quby_77, Red305_78, Samty_76, Sheng711_78, Snenia_76, TriFive_78, Whirlwind_78,

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

-

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

- Acquire49_76, Appletree2_75, Archie_76, AvadaKedavra_76, BigCheese_79, BobsGarage_79, Breezona_79, Calm_78, CicholasNage_73, Crossroads_79, DHan_82, DirkDirk_73, DrSeegs_79, Enceladus_73, Faith1_79, Gabriela_78, GuuelaD_77, Halena_74, Itos_78, Kahlid_79, LeBron_75, Lewan_80, LilDestine_78, Loadrie_78, Lynnae_81, MAckerman_74, Miley16_79, MkaliMitinis3_80, Netyap_80, OverPar_80, Rose5_76, Sarshaun_80, Silverleaf_76, SoJulia_81, Soap141_79, Tyson_77, UPIE_75, Vetrix_78, Wamburggrxpress_76, Wilder_80, Winky_79, Wyatt2_77, Zakai_80, Zaria_77,

Summary by start number:

Start 3:

- Found in 43 of 75 (57.3%) of genes in pham
- Manual Annotations of this start: 16 of 63
- Called 37.2% of time when present
- Phage (with cluster) where this start called: Acquire49_76 (L1), Appletree2_75 (L1), AvadaKedavra_76 (L1), Calm_78 (L1), CicholasNage_73 (L1), DirkDirk_73 (L1), Enceladus_73 (L1), Halena_74 (L1), LeBron_75 (L1), MAckerman_74 (L1), Rose5_76 (L1), Tyson_77 (L1), UPIE_75 (L1), Wamburggrxpress_76 (L1), Wyatt2_77 (L1), Zaria_77 (L1),

Start 5:

- Found in 31 of 75 (41.3%) of genes in pham
- Manual Annotations of this start: 24 of 63
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aegeus_85 (L5), Baudelaire_85 (L5), Bellis_77 (L3), BourbonZero_78 (L3), Chaser_75 (L4), ChutneyChips_77 (L4), Clautastrophe_75 (L3), Douge_76 (L4), DuncansLeg_77 (L3), Ellson_76 (L3), Finnry_77 (L3), Jobypre_77 (L3), Jubie_76 (L3), Kingsolomon_75 (L3), KirDoubleO7_75 (L3), Krypton555_78 (L3), LiyuLake_76 (L3), Lolly9_76 (L3), Lumos_78 (L3), MiniLon_81 (L3), MiniMac_81 (L3), Moostard_75 (L3), MsGreen_77 (L3), Nicholas_75 (L3), Quby_77 (L4), Red305_78 (L3), Samty_76 (L3), Sheng711_78 (L4), Snenia_76 (L3), TriFive_78 (L3), Whirlwind_78 (L3),

Start 6:

- Found in 27 of 75 (36.0%) of genes in pham
- Manual Annotations of this start: 22 of 63
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archie_76 (L2), BigCheese_79 (L2), BobsGarage_79 (L2), Breezona_79 (L2), Crossroads_79 (L2), DHan_82 (L2), DrSeegs_79 (L2), Faith1_79 (L2), Gabriela_78 (L2), GuuelaD_77 (L2), Itos_78 (L2), Kahlid_79 (L2), Lewan_80 (L2), LilDestine_78 (L2), Loadrie_78 (L2), Lynnae_81 (L2), Miley16_79 (L2), MkaliMitinis3_80 (L2), Netyap_80 (L2), OverPar_80 (L2), Sarshaun_80 (L2), SoJulia_81 (L2), Soap141_79 (L2), Vetrix_78 (L2), Wilder_80 (L2), Winky_79 (L2), Zakai_80 (L2),

Start 7:

- Found in 20 of 75 (26.7%) of genes in pham
- Manual Annotations of this start: 1 of 63

- Called 5.0% of time when present
- Phage (with cluster) where this start called: Silverleaf_76 (L1),

Summary by clusters:

There are 5 clusters represented in this pham: L4, L5, L2, L3, L1,

Info for manual annotations of cluster L1:

- Start number 3 was manually annotated 16 times for cluster L1.
- Start number 7 was manually annotated 1 time for cluster L1.

Info for manual annotations of cluster L2:

- Start number 6 was manually annotated 22 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 5 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 5 was manually annotated 3 times for cluster L4.

Info for manual annotations of cluster L5:

- Start number 5 was manually annotated 2 times for cluster L5.

Gene Information:

Gene: Acquire49_76 Start: 51435, Stop: 51647, Start Num: 3

Candidate Starts for Acquire49_76:

(1, 51405), (Start: 3 @51435 has 16 MA's), (4, 51453), (Start: 7 @51474 has 1 MA's), (19, 51627),

Gene: Aegeus_85 Start: 54120, Stop: 54311, Start Num: 5

Candidate Starts for Aegeus_85:

(2, 54069), (Start: 3 @54090 has 16 MA's), (Start: 5 @54120 has 24 MA's), (Start: 7 @54126 has 1 MA's), (9, 54147), (11, 54171), (18, 54273), (19, 54276), (20, 54297),

Gene: Appletree2_75 Start: 51046, Stop: 51258, Start Num: 3

Candidate Starts for Appletree2_75:

(1, 51016), (Start: 3 @51046 has 16 MA's), (4, 51064), (Start: 7 @51085 has 1 MA's), (19, 51238),

Gene: Archie_76 Start: 52793, Stop: 52981, Start Num: 6

Candidate Starts for Archie_76:

(Start: 6 @52793 has 22 MA's), (Start: 7 @52799 has 1 MA's), (9, 52820), (11, 52844), (18, 52958),

Gene: AvadaKedavra_76 Start: 51514, Stop: 51726, Start Num: 3

Candidate Starts for AvadaKedavra_76:

(1, 51484), (Start: 3 @51514 has 16 MA's), (4, 51532), (Start: 7 @51553 has 1 MA's), (19, 51706),

Gene: Baudelaire_85 Start: 54120, Stop: 54311, Start Num: 5

Candidate Starts for Baudelaire_85:

(2, 54069), (Start: 3 @54090 has 16 MA's), (Start: 5 @54120 has 24 MA's), (Start: 7 @54126 has 1 MA's), (9, 54147), (11, 54171), (18, 54273), (19, 54276), (20, 54297),

Gene: Bellis_77 Start: 53252, Stop: 53434, Start Num: 5

Candidate Starts for Bellis_77:

(Start: 3 @53222 has 16 MA's), (Start: 5 @53252 has 24 MA's), (9, 53282),

Gene: BigCheese_79 Start: 53215, Stop: 53400, Start Num: 6

Candidate Starts for BigCheese_79:

(Start: 6 @53215 has 22 MA's), (9, 53242), (11, 53266), (14, 53296), (17, 53362),

Gene: BobsGarage_79 Start: 53215, Stop: 53400, Start Num: 6

Candidate Starts for BobsGarage_79:

(Start: 6 @53215 has 22 MA's), (9, 53242), (11, 53266), (14, 53296), (17, 53362),

Gene: BourbonZero_78 Start: 53249, Stop: 53431, Start Num: 5

Candidate Starts for BourbonZero_78:

(Start: 3 @53219 has 16 MA's), (Start: 5 @53249 has 24 MA's), (9, 53279),

Gene: Breezona_79 Start: 53215, Stop: 53400, Start Num: 6

Candidate Starts for Breezona_79:

(Start: 6 @53215 has 22 MA's), (9, 53242), (11, 53266), (14, 53296), (17, 53362),

Gene: Calm_78 Start: 51757, Stop: 51969, Start Num: 3

Candidate Starts for Calm_78:

(1, 51727), (Start: 3 @51757 has 16 MA's), (4, 51775), (Start: 7 @51796 has 1 MA's), (19, 51949),

Gene: Chaser_75 Start: 51818, Stop: 52000, Start Num: 5

Candidate Starts for Chaser_75:

(Start: 5 @51818 has 24 MA's), (10, 51854), (13, 51884), (14, 51905), (16, 51944), (19, 51980),

Gene: ChutneyChips_77 Start: 52163, Stop: 52345, Start Num: 5

Candidate Starts for ChutneyChips_77:

(Start: 5 @52163 has 24 MA's), (12, 52223), (16, 52289), (19, 52325),

Gene: CicholasNage_73 Start: 51099, Stop: 51311, Start Num: 3

Candidate Starts for CicholasNage_73:

(1, 51069), (Start: 3 @51099 has 16 MA's), (4, 51117), (Start: 7 @51138 has 1 MA's), (19, 51291),

Gene: Clautastrophe_75 Start: 53250, Stop: 53432, Start Num: 5

Candidate Starts for Clautastrophe_75:

(Start: 3 @53220 has 16 MA's), (Start: 5 @53250 has 24 MA's), (9, 53280),

Gene: Crossroads_79 Start: 53290, Stop: 53475, Start Num: 6

Candidate Starts for Crossroads_79:

(Start: 6 @53290 has 22 MA's), (9, 53317), (11, 53341), (14, 53371), (17, 53437),

Gene: DHan_82 Start: 53362, Stop: 53550, Start Num: 6

Candidate Starts for DHan_82:

(Start: 6 @53362 has 22 MA's), (9, 53389), (11, 53413), (15, 53479),

Gene: DirkDirk_73 Start: 50632, Stop: 50838, Start Num: 3

Candidate Starts for DirkDirk_73:

(1, 50602), (Start: 3 @50632 has 16 MA's), (4, 50650), (Start: 7 @50671 has 1 MA's), (19, 50818),

Gene: Douge_76 Start: 51741, Stop: 51923, Start Num: 5

Candidate Starts for Douge_76:

(Start: 3 @51711 has 16 MA's), (Start: 5 @51741 has 24 MA's), (8, 51753), (10, 51777), (14, 51828), (16, 51867), (19, 51903),

Gene: DrSeegs_79 Start: 53215, Stop: 53400, Start Num: 6

Candidate Starts for DrSeegs_79:

(Start: 6 @53215 has 22 MA's), (9, 53242), (11, 53266), (14, 53296), (17, 53362),

Gene: DuncansLeg_77 Start: 53237, Stop: 53419, Start Num: 5

Candidate Starts for DuncansLeg_77:

(Start: 3 @53207 has 16 MA's), (Start: 5 @53237 has 24 MA's), (9, 53267),

Gene: Ellson_76 Start: 53552, Stop: 53734, Start Num: 5

Candidate Starts for Ellson_76:

(Start: 3 @53522 has 16 MA's), (Start: 5 @53552 has 24 MA's), (9, 53582),

Gene: Enceladus_73 Start: 51403, Stop: 51615, Start Num: 3

Candidate Starts for Enceladus_73:

(1, 51373), (Start: 3 @51403 has 16 MA's), (4, 51421), (Start: 7 @51442 has 1 MA's), (19, 51595),

Gene: Faith1_79 Start: 53215, Stop: 53400, Start Num: 6

Candidate Starts for Faith1_79:

(Start: 6 @53215 has 22 MA's), (9, 53242), (11, 53266), (14, 53296), (17, 53362),

Gene: Finnry_77 Start: 53501, Stop: 53683, Start Num: 5

Candidate Starts for Finnry_77:

(Start: 3 @53471 has 16 MA's), (Start: 5 @53501 has 24 MA's), (9, 53531),

Gene: Gabriela_78 Start: 52561, Stop: 52746, Start Num: 6

Candidate Starts for Gabriela_78:

(Start: 6 @52561 has 22 MA's), (9, 52588), (11, 52612), (14, 52642), (17, 52708),

Gene: GuuelaD_77 Start: 53330, Stop: 53515, Start Num: 6

Candidate Starts for GuuelaD_77:

(Start: 6 @53330 has 22 MA's), (9, 53357), (11, 53381), (14, 53411), (17, 53477),

Gene: Halena_74 Start: 50673, Stop: 50885, Start Num: 3

Candidate Starts for Halena_74:

(1, 50643), (Start: 3 @50673 has 16 MA's), (4, 50691), (Start: 7 @50712 has 1 MA's), (19, 50865),

Gene: Itos_78 Start: 52121, Stop: 52306, Start Num: 6

Candidate Starts for Itos_78:

(Start: 6 @52121 has 22 MA's), (9, 52148), (11, 52172), (14, 52202), (17, 52268),

Gene: Jobypre_77 Start: 53250, Stop: 53432, Start Num: 5

Candidate Starts for Jobypre_77:

(Start: 3 @53220 has 16 MA's), (Start: 5 @53250 has 24 MA's), (9, 53280),

Gene: Jubie_76 Start: 53385, Stop: 53567, Start Num: 5

Candidate Starts for Jubie_76:

(Start: 3 @53355 has 16 MA's), (Start: 5 @53385 has 24 MA's), (9, 53415),

Gene: Kahlid_79 Start: 53221, Stop: 53406, Start Num: 6

Candidate Starts for Kahlid_79:

(Start: 6 @53221 has 22 MA's), (9, 53248), (11, 53272), (14, 53302), (17, 53368),

Gene: Kingsolomon_75 Start: 53257, Stop: 53439, Start Num: 5

Candidate Starts for Kingsolomon_75:

(Start: 3 @53227 has 16 MA's), (Start: 5 @53257 has 24 MA's), (9, 53287),

Gene: KirDoubleO7_75 Start: 53239, Stop: 53421, Start Num: 5

Candidate Starts for KirDoubleO7_75:

(Start: 3 @53209 has 16 MA's), (Start: 5 @53239 has 24 MA's), (9, 53269),

Gene: Krypton555_78 Start: 53484, Stop: 53666, Start Num: 5

Candidate Starts for Krypton555_78:

(Start: 3 @53454 has 16 MA's), (Start: 5 @53484 has 24 MA's), (9, 53514),

Gene: LeBron_75 Start: 50672, Stop: 50884, Start Num: 3

Candidate Starts for LeBron_75:

(1, 50642), (Start: 3 @50672 has 16 MA's), (4, 50690), (Start: 7 @50711 has 1 MA's), (19, 50864),

Gene: Lewan_80 Start: 53272, Stop: 53457, Start Num: 6

Candidate Starts for Lewan_80:

(Start: 6 @53272 has 22 MA's), (9, 53299), (11, 53323), (14, 53353), (17, 53419),

Gene: LilDestine_78 Start: 53121, Stop: 53309, Start Num: 6

Candidate Starts for LilDestine_78:

(Start: 6 @53121 has 22 MA's), (9, 53148), (11, 53172), (15, 53238),

Gene: LiyuLake_76 Start: 53312, Stop: 53494, Start Num: 5

Candidate Starts for LiyuLake_76:

(Start: 3 @53282 has 16 MA's), (Start: 5 @53312 has 24 MA's), (9, 53342),

Gene: Loadrie_78 Start: 53300, Stop: 53485, Start Num: 6

Candidate Starts for Loadrie_78:

(Start: 6 @53300 has 22 MA's), (9, 53327), (11, 53351), (14, 53381), (17, 53447),

Gene: Lolly9_76 Start: 53354, Stop: 53536, Start Num: 5

Candidate Starts for Lolly9_76:

(Start: 3 @53324 has 16 MA's), (Start: 5 @53354 has 24 MA's), (9, 53384),

Gene: Lumos_78 Start: 53247, Stop: 53429, Start Num: 5

Candidate Starts for Lumos_78:

(Start: 3 @53217 has 16 MA's), (Start: 5 @53247 has 24 MA's), (9, 53277),

Gene: Lynnae_81 Start: 53233, Stop: 53418, Start Num: 6

Candidate Starts for Lynnae_81:

(Start: 6 @53233 has 22 MA's), (9, 53260), (11, 53284), (14, 53314), (17, 53380),

Gene: MAckerman_74 Start: 50666, Stop: 50878, Start Num: 3

Candidate Starts for MAckerman_74:

(1, 50636), (Start: 3 @50666 has 16 MA's), (4, 50684), (Start: 7 @50705 has 1 MA's), (19, 50858),

Gene: Miley16_79 Start: 53215, Stop: 53400, Start Num: 6

Candidate Starts for Miley16_79:

(Start: 6 @53215 has 22 MA's), (9, 53242), (11, 53266), (14, 53296), (17, 53362),

Gene: MiniLon_81 Start: 53355, Stop: 53537, Start Num: 5

Candidate Starts for MiniLon_81:

(Start: 3 @53325 has 16 MA's), (Start: 5 @53355 has 24 MA's), (9, 53385),

Gene: MiniMac_81 Start: 53350, Stop: 53532, Start Num: 5

Candidate Starts for MiniMac_81:

(Start: 3 @53320 has 16 MA's), (Start: 5 @53350 has 24 MA's), (9, 53380),

Gene: MkaliMitinis3_80 Start: 53284, Stop: 53469, Start Num: 6

Candidate Starts for MkaliMitinis3_80:

(Start: 6 @53284 has 22 MA's), (9, 53311), (11, 53335), (14, 53365), (17, 53431),

Gene: Moostard_75 Start: 53252, Stop: 53434, Start Num: 5

Candidate Starts for Moostard_75:

(Start: 3 @53222 has 16 MA's), (Start: 5 @53252 has 24 MA's), (9, 53282),

Gene: MsGreen_77 Start: 53249, Stop: 53431, Start Num: 5

Candidate Starts for MsGreen_77:

(Start: 3 @53219 has 16 MA's), (Start: 5 @53249 has 24 MA's), (9, 53279),

Gene: Netyap_80 Start: 53216, Stop: 53401, Start Num: 6

Candidate Starts for Netyap_80:

(Start: 6 @53216 has 22 MA's), (9, 53243), (11, 53267), (14, 53297), (17, 53363),

Gene: Nicholas_75 Start: 53257, Stop: 53439, Start Num: 5

Candidate Starts for Nicholas_75:

(Start: 3 @53227 has 16 MA's), (Start: 5 @53257 has 24 MA's), (9, 53287),

Gene: OverPar_80 Start: 53300, Stop: 53485, Start Num: 6

Candidate Starts for OverPar_80:

(Start: 6 @53300 has 22 MA's), (9, 53327), (11, 53351), (14, 53381), (17, 53447),

Gene: Quby_77 Start: 51769, Stop: 51951, Start Num: 5

Candidate Starts for Quby_77:

(Start: 5 @51769 has 24 MA's), (8, 51781), (13, 51835), (14, 51856), (16, 51895), (19, 51931),

Gene: Red305_78 Start: 53250, Stop: 53432, Start Num: 5

Candidate Starts for Red305_78:

(Start: 3 @53220 has 16 MA's), (Start: 5 @53250 has 24 MA's), (9, 53280),

Gene: Rose5_76 Start: 51846, Stop: 52058, Start Num: 3

Candidate Starts for Rose5_76:

(1, 51816), (Start: 3 @51846 has 16 MA's), (4, 51864), (Start: 7 @51885 has 1 MA's), (19, 52038),

Gene: Samty_76 Start: 53245, Stop: 53427, Start Num: 5

Candidate Starts for Samty_76:

(Start: 3 @53215 has 16 MA's), (Start: 5 @53245 has 24 MA's), (9, 53275),

Gene: Sarshaun_80 Start: 53308, Stop: 53493, Start Num: 6

Candidate Starts for Sarshaun_80:

(Start: 6 @53308 has 22 MA's), (9, 53335), (11, 53359), (14, 53389), (17, 53455),

Gene: Sheng711_78 Start: 52072, Stop: 52254, Start Num: 5

Candidate Starts for Sheng711_78:

(Start: 5 @52072 has 24 MA's), (8, 52084), (13, 52138), (14, 52159), (16, 52198), (19, 52234),

Gene: Silverleaf_76 Start: 51341, Stop: 51514, Start Num: 7

Candidate Starts for Silverleaf_76:

(1, 51272), (Start: 3 @51302 has 16 MA's), (4, 51320), (Start: 7 @51341 has 1 MA's), (19, 51494),

Gene: Snenia_76 Start: 53251, Stop: 53433, Start Num: 5

Candidate Starts for Snenia_76:

(Start: 3 @53221 has 16 MA's), (Start: 5 @53251 has 24 MA's), (9, 53281),

Gene: SoJulia_81 Start: 54376, Stop: 54561, Start Num: 6

Candidate Starts for SoJulia_81:

(Start: 6 @54376 has 22 MA's), (9, 54403), (11, 54427), (14, 54457), (17, 54523),

Gene: Soap141_79 Start: 53308, Stop: 53493, Start Num: 6

Candidate Starts for Soap141_79:

(Start: 6 @53308 has 22 MA's), (9, 53335), (11, 53359), (14, 53389), (17, 53455),

Gene: TriFive_78 Start: 53250, Stop: 53432, Start Num: 5

Candidate Starts for TriFive_78:

(Start: 3 @53220 has 16 MA's), (Start: 5 @53250 has 24 MA's), (9, 53280),

Gene: Tyson_77 Start: 51772, Stop: 51984, Start Num: 3

Candidate Starts for Tyson_77:

(1, 51742), (Start: 3 @51772 has 16 MA's), (4, 51790), (Start: 7 @51811 has 1 MA's), (19, 51964),

Gene: UPIE_75 Start: 51368, Stop: 51580, Start Num: 3

Candidate Starts for UPIE_75:

(1, 51338), (Start: 3 @51368 has 16 MA's), (4, 51386), (Start: 7 @51407 has 1 MA's), (19, 51560),

Gene: Vetrix_78 Start: 53128, Stop: 53316, Start Num: 6

Candidate Starts for Vetrix_78:

(Start: 6 @53128 has 22 MA's), (9, 53155), (11, 53179), (15, 53245),

Gene: Wamburgexpress_76 Start: 51807, Stop: 52019, Start Num: 3

Candidate Starts for Wamburgexpress_76:

(1, 51777), (Start: 3 @51807 has 16 MA's), (4, 51825), (Start: 7 @51846 has 1 MA's), (19, 51999),

Gene: Whirlwind_78 Start: 53444, Stop: 53632, Start Num: 5

Candidate Starts for Whirlwind_78:

(Start: 5 @53444 has 24 MA's), (9, 53474), (19, 53612),

Gene: Wilder_80 Start: 53221, Stop: 53406, Start Num: 6

Candidate Starts for Wilder_80:

(Start: 6 @53221 has 22 MA's), (9, 53248), (11, 53272), (14, 53302), (17, 53368),

Gene: Winky_79 Start: 53215, Stop: 53400, Start Num: 6

Candidate Starts for Winky_79:

(Start: 6 @53215 has 22 MA's), (9, 53242), (11, 53266), (14, 53296), (17, 53362),

Gene: Wyatt2_77 Start: 51770, Stop: 51982, Start Num: 3

Candidate Starts for Wyatt2_77:

(1, 51740), (Start: 3 @51770 has 16 MA's), (4, 51788), (Start: 7 @51809 has 1 MA's), (19, 51962),

Gene: Zakai_80 Start: 53541, Stop: 53726, Start Num: 6

Candidate Starts for Zakai_80:

(Start: 6 @53541 has 22 MA's), (9, 53568), (11, 53592), (14, 53622), (17, 53688),

Gene: Zaria_77 Start: 51222, Stop: 51434, Start Num: 3

Candidate Starts for Zaria_77:

(1, 51192), (Start: 3 @51222 has 16 MA's), (4, 51240), (Start: 7 @51261 has 1 MA's), (19, 51414),