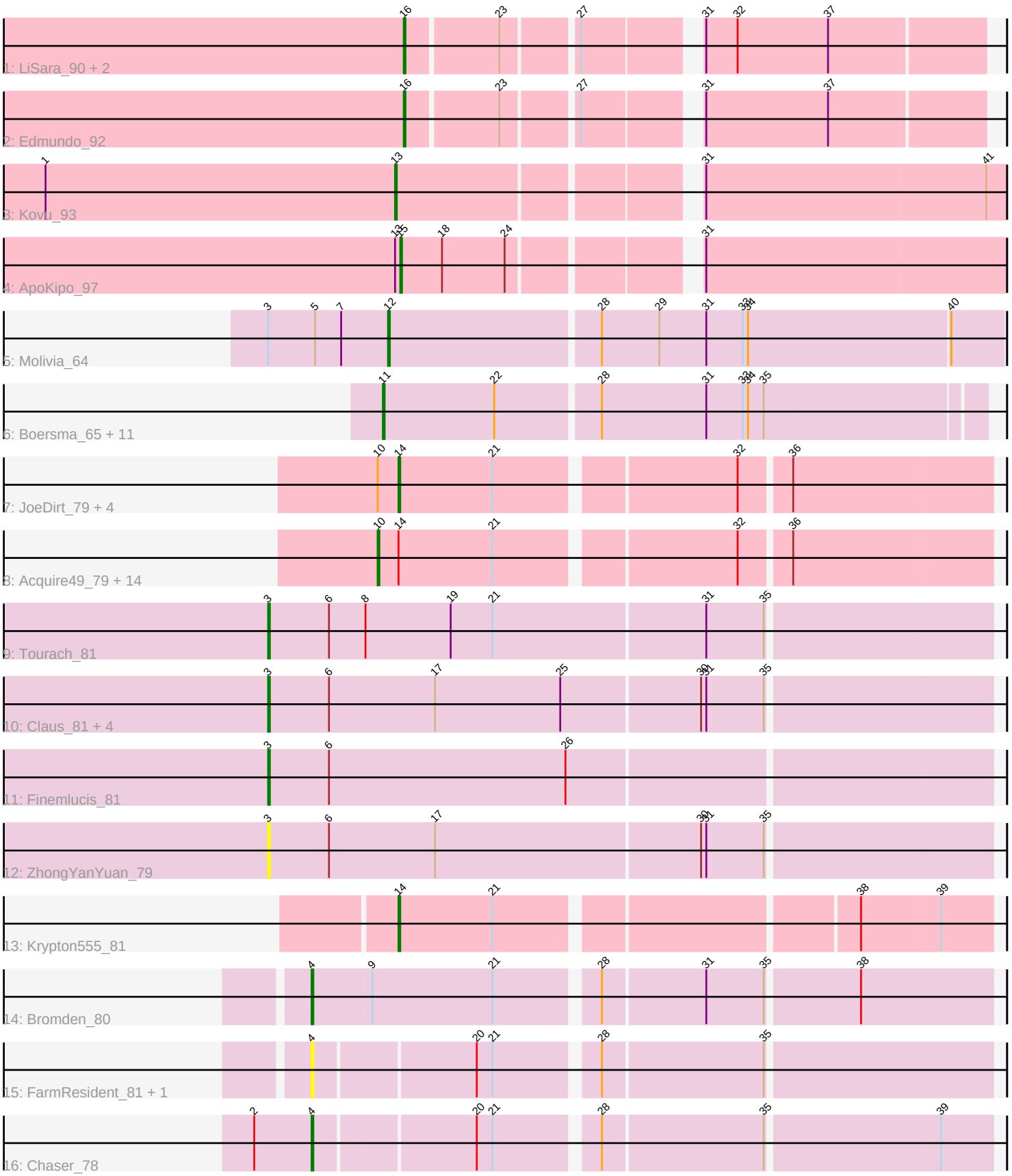
Pham 347696


1: LiSara_90 + 2
2: Edmundo_92
3: Kovu_93
4: ApoKipo_97
5: Molivia_64
6: Boersma_65 + 11
7: JoeDirt_79 + 4
8: Acquire49_79 + 14
9: Tourach_81
10: Claus_81 + 4
11: Finemlucis_81
12: ZhongYanYuan_79
13: Krypton555_81
14: Bromden_80
15: FarmResident_81 + 1
16: Chaser_78

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 347696 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347696 has 52 members, 7 are drafts.

Phages represented in each track:
• Track 1 : LiSara_90, Laroye_93, Salgado_93
• Track 2 : Edmundo_92
• Track 3 : Kovu_93
• Track 4 : ApoKipo_97
• Track 5 : Molivia_64
• Track 6 : Boersma_65, SorJuana_62, Amigo_63, Gorgeous_62, Rings_63, Amavida_64, Yeezus_62, Ichor_62, Thunderclap_62, Heylee_65, Anansi_62, Jaek_62
• Track 7 : JoeDirt_79, Enceladus_76, OhShagHennessy_76, CicholasNage_76, Poochiewood_77
• Track 8 : Acquire49_79, Silverleaf_79, Appletree2_78, Rose5_79, UPIE_78, LeBron_78, Calm_81, Wyatt2_80, Wamburgrxpress_79, Halena_77, MAckerman_77, DirkDirk_76, AvadaKedavra_79, Zaria_80, Tyson_80
• Track 9 : Tourach_81
• Track 10 : Claus_81, DanBing_82, Baoshan_80, DHan_85, Hafay_83
• Track 11 : Finemlucis_81
• Track 12 : ZhongYanYuan_79
• Track 13 : Krypton555_81
• Track 14 : Bromden_80
• Track 15 : FarmResident_81, Quby_80
• Track 16 : Chaser_78

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

The start number called the most often in the published annotations is 10, it was called in 15 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acquire49_79, Appletree2_78, AvadaKedavra_79, Calm_81, DirkDirk_76, Halena_77, LeBron_78, MAckerman_77, Rose5_79, Silverleaf_79, Tyson_80, UPIE_78, Wamburgrxpress_79, Wyatt2_80, Zaria_80,

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

• CicholasNage_76, Enceladus_76, JoeDirt_79, OhShagHennessy_76, Poochiewood_77,

Genes that do not have the "Most Annotated" start:
• Amavida_64, Amigo_63, Anansi_62, ApoKipo_97, Baoshan_80, Boersma_65, Bromden_80, Chaser_78, Claus_81, DHan_85, DanBing_82, Edmundo_92, FarmResident_81, Finemlucis_81, Gorgeous_62, Hafay_83, Heylee_65, Ichor_62, Jaek_62, Kovu_93, Krypton555_81, Laroye_93, LiSara_90, Molivia_64, Quby_80, Rings_63, Salgado_93, SorJuana_62, Thunderclap_62, Tourach_81, Yeezus_62, ZhongYanYuan_79,

Summary by start number:

Start 3:
• Found in 9 of 52 (17.3%) of genes in pham
• Manual Annotations of this start: 4 of 45
• Called 88.9% of time when present
• Phage (with cluster) where this start called: Baoshan_80 (L2), Claus_81 (L2), DHan_85 (L2), DanBing_82 (L2), Finemlucis_81 (L2), Hafay_83 (L2), Tourach_81 (L2), ZhongYanYuan_79 (L2),

Start 4:
• Found in 4 of 52 (7.7%) of genes in pham
• Manual Annotations of this start: 2 of 45
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bromden_80 (L4), Chaser_78 (L4), FarmResident_81 (L4), Quby_80 (L4),

Start 10:
• Found in 20 of 52 (38.5%) of genes in pham
• Manual Annotations of this start: 15 of 45
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Acquire49_79 (L1), Appletree2_78 (L1), AvadaKedavra_79 (L1), Calm_81 (L1), DirkDirk_76 (L1), Halena_77 (L1), LeBron_78 (L1), MAckerman_77 (L1), Rose5_79 (L1), Silverleaf_79 (L1), Tyson_80 (L1), UPIE_78 (L1), Wamburgrxpress_79 (L1), Wyatt2_80 (L1), Zaria_80 (L1),

Start 11:
• Found in 12 of 52 (23.1%) of genes in pham
• Manual Annotations of this start: 12 of 45
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amavida_64 (AQ), Amigo_63 (AQ), Anansi_62 (AQ), Boersma_65 (AQ), Gorgeous_62 (AQ), Heylee_65 (AQ), Ichor_62 (AQ), Jaek_62 (AQ), Rings_63 (AQ), SorJuana_62 (AQ), Thunderclap_62 (AQ), Yeezus_62 (AQ),

Start 12:
• Found in 1 of 52 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 45
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Molivia_64 (AQ),

Start 13:

• Found in 2 of 52 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 45
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Kovu_93 (AL),

Start 14:
• Found in 21 of 52 (40.4%) of genes in pham
• Manual Annotations of this start: 5 of 45
• Called 28.6% of time when present
• Phage (with cluster) where this start called: CicholasNage_76 (L1), Enceladus_76 (L1), JoeDirt_79 (L1), Krypton555_81 (L3), OhShagHennessy_76 (L1), Poochiewood_77 (L1),

Start 15:
• Found in 1 of 52 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 45
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ApoKipo_97 (AL),

Start 16:
• Found in 4 of 52 (7.7%) of genes in pham
• Manual Annotations of this start: 4 of 45
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Edmundo_92 (AL), Laroye_93 (AL), LiSara_90 (AL), Salgado_93 (AL),

Summary by clusters:

There are 6 clusters represented in this pham: AL, AQ, L4, L2, L3, L1,

Info for manual annotations of cluster AL:
•Start number 13 was manually annotated 1 time for cluster AL.
•Start number 15 was manually annotated 1 time for cluster AL.
•Start number 16 was manually annotated 4 times for cluster AL.

Info for manual annotations of cluster AQ:
•Start number 11 was manually annotated 12 times for cluster AQ.
•Start number 12 was manually annotated 1 time for cluster AQ.

Info for manual annotations of cluster L1:
•Start number 10 was manually annotated 15 times for cluster L1.
•Start number 14 was manually annotated 4 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 3 was manually annotated 4 times for cluster L2.

Info for manual annotations of cluster L3:
•Start number 14 was manually annotated 1 time for cluster L3.

Info for manual annotations of cluster L4:
•Start number 4 was manually annotated 2 times for cluster L4.

Gene Information:

Gene: Acquire49_79 Start: 52317, Stop: 52652, Start Num: 10
Candidate Starts for Acquire49_79:
(Start: 10 @52317 has 15 MA's), (Start: 14 @52329 has 5 MA's), (21, 52383), (32, 52512), (36, 52539),

Gene: Amavida_64 Start: 41972, Stop: 41637, Start Num: 11
Candidate Starts for Amavida_64:
(Start: 11 @41972 has 12 MA's), (22, 41909), (28, 41852), (31, 41792), (33, 41771), (34, 41768), (35, 41759),

Gene: Amigo_63 Start: 42187, Stop: 41852, Start Num: 11
Candidate Starts for Amigo_63:
(Start: 11 @42187 has 12 MA's), (22, 42124), (28, 42067), (31, 42007), (33, 41986), (34, 41983), (35, 41974),

Gene: Anansi_62 Start: 41794, Stop: 41459, Start Num: 11
Candidate Starts for Anansi_62:
(Start: 11 @41794 has 12 MA's), (22, 41731), (28, 41674), (31, 41614), (33, 41593), (34, 41590), (35, 41581),

Gene: ApoKipo_97 Start: 55656, Stop: 55979, Start Num: 15
Candidate Starts for ApoKipo_97:
(Start: 13 @55653 has 1 MA's), (Start: 15 @55656 has 1 MA's), (18, 55680), (24, 55716), (31, 55809),

Gene: Appletree2_78 Start: 51928, Stop: 52263, Start Num: 10
Candidate Starts for Appletree2_78:
(Start: 10 @51928 has 15 MA's), (Start: 14 @51940 has 5 MA's), (21, 51994), (32, 52123), (36, 52150),

Gene: AvadaKedavra_79 Start: 52396, Stop: 52731, Start Num: 10
Candidate Starts for AvadaKedavra_79:
(Start: 10 @52396 has 15 MA's), (Start: 14 @52408 has 5 MA's), (21, 52462), (32, 52591), (36, 52618),

Gene: Baoshan_80 Start: 54085, Stop: 54489, Start Num: 3
Candidate Starts for Baoshan_80:
(Start: 3 @54085 has 4 MA's), (6, 54118), (17, 54178), (25, 54250), (30, 54328), (31, 54331), (35, 54364),

Gene: Boersma_65 Start: 42187, Stop: 41852, Start Num: 11
Candidate Starts for Boersma_65:
(Start: 11 @42187 has 12 MA's), (22, 42124), (28, 42067), (31, 42007), (33, 41986), (34, 41983), (35, 41974),

Gene: Bromden_80 Start: 53647, Stop: 54018, Start Num: 4
Candidate Starts for Bromden_80:
(Start: 4 @53647 has 2 MA's), (9, 53680), (21, 53749), (28, 53803), (31, 53860), (35, 53893), (38, 53944),

Gene: Calm_81 Start: 52639, Stop: 52974, Start Num: 10
Candidate Starts for Calm_81:
(Start: 10 @52639 has 15 MA's), (Start: 14 @52651 has 5 MA's), (21, 52705), (32, 52834), (36, 52861),

Gene: Chaser_78 Start: 52652, Stop: 53017, Start Num: 4

Candidate Starts for Chaser_78:
(2, 52619), (Start: 4 @52652 has 2 MA's), (20, 52739), (21, 52748), (28, 52802), (35, 52892), (39, 52988),

Gene: CicholasNage_76 Start: 51993, Stop: 52316, Start Num: 14
Candidate Starts for CicholasNage_76:
(Start: 10 @51981 has 15 MA's), (Start: 14 @51993 has 5 MA's), (21, 52047), (32, 52176), (36, 52203),

Gene: Claus_81 Start: 54150, Stop: 54554, Start Num: 3
Candidate Starts for Claus_81:
(Start: 3 @54150 has 4 MA's), (6, 54183), (17, 54243), (25, 54315), (30, 54393), (31, 54396), (35, 54429),

Gene: DHan_85 Start: 54368, Stop: 54778, Start Num: 3
Candidate Starts for DHan_85:
(Start: 3 @54368 has 4 MA's), (6, 54401), (17, 54461), (25, 54533), (30, 54611), (31, 54614), (35, 54647),

Gene: DanBing_82 Start: 54020, Stop: 54424, Start Num: 3
Candidate Starts for DanBing_82:
(Start: 3 @54020 has 4 MA's), (6, 54053), (17, 54113), (25, 54185), (30, 54263), (31, 54266), (35, 54299),

Gene: DirkDirk_76 Start: 51508, Stop: 51843, Start Num: 10
Candidate Starts for DirkDirk_76:
(Start: 10 @51508 has 15 MA's), (Start: 14 @51520 has 5 MA's), (21, 51574), (32, 51703), (36, 51730),

Gene: Edmundo_92 Start: 54254, Stop: 54556, Start Num: 16
Candidate Starts for Edmundo_92:
(Start: 16 @54254 has 4 MA's), (23, 54305), (27, 54344), (31, 54401), (37, 54470),

Gene: Enceladus_76 Start: 52297, Stop: 52620, Start Num: 14
Candidate Starts for Enceladus_76:
(Start: 10 @52285 has 15 MA's), (Start: 14 @52297 has 5 MA's), (21, 52351), (32, 52480), (36, 52507),

Gene: FarmResident_81 Start: 52573, Stop: 52938, Start Num: 4
Candidate Starts for FarmResident_81:
(Start: 4 @52573 has 2 MA's), (20, 52660), (21, 52669), (28, 52723), (35, 52813),

Gene: Finemlucis_81 Start: 54683, Stop: 55087, Start Num: 3
Candidate Starts for Finemlucis_81:
(Start: 3 @54683 has 4 MA's), (6, 54716), (26, 54851),

Gene: Gorgeous_62 Start: 41794, Stop: 41459, Start Num: 11
Candidate Starts for Gorgeous_62:
(Start: 11 @41794 has 12 MA's), (22, 41731), (28, 41674), (31, 41614), (33, 41593), (34, 41590), (35, 41581),

Gene: Hafay_83 Start: 54145, Stop: 54549, Start Num: 3
Candidate Starts for Hafay_83:
(Start: 3 @54145 has 4 MA's), (6, 54178), (17, 54238), (25, 54310), (30, 54388), (31, 54391), (35, 54424),

Gene: Halena_77 Start: 51555, Stop: 51890, Start Num: 10
Candidate Starts for Halena_77:
(Start: 10 @51555 has 15 MA's), (Start: 14 @51567 has 5 MA's), (21, 51621), (32, 51750), (36, 51777),

Gene: Heylee_65 Start: 41972, Stop: 41637, Start Num: 11
Candidate Starts for Heylee_65:
(Start: 11 @41972 has 12 MA's), (22, 41909), (28, 41852), (31, 41792), (33, 41771), (34, 41768), (35, 41759),

Gene: Ichor_62 Start: 42187, Stop: 41852, Start Num: 11
Candidate Starts for Ichor_62:
(Start: 11 @42187 has 12 MA's), (22, 42124), (28, 42067), (31, 42007), (33, 41986), (34, 41983), (35, 41974),

Gene: Jaek_62 Start: 42187, Stop: 41852, Start Num: 11
Candidate Starts for Jaek_62:
(Start: 11 @42187 has 12 MA's), (22, 42124), (28, 42067), (31, 42007), (33, 41986), (34, 41983), (35, 41974),

Gene: JoeDirt_79 Start: 52895, Stop: 53218, Start Num: 14
Candidate Starts for JoeDirt_79:
(Start: 10 @52883 has 15 MA's), (Start: 14 @52895 has 5 MA's), (21, 52949), (32, 53078), (36, 53105),

Gene: Kovu_93 Start: 55122, Stop: 55448, Start Num: 13
Candidate Starts for Kovu_93:
(1, 54921), (Start: 13 @55122 has 1 MA's), (31, 55278), (41, 55437),

Gene: Krypton555_81 Start: 54339, Stop: 54659, Start Num: 14
Candidate Starts for Krypton555_81:
(Start: 14 @54339 has 5 MA's), (21, 54393), (38, 54585), (39, 54630),

Gene: Laroye_93 Start: 54055, Stop: 54357, Start Num: 16
Candidate Starts for Laroye_93:
(Start: 16 @54055 has 4 MA's), (23, 54106), (27, 54145), (31, 54202), (32, 54220), (37, 54271),

Gene: LeBron_78 Start: 51554, Stop: 51889, Start Num: 10
Candidate Starts for LeBron_78:
(Start: 10 @51554 has 15 MA's), (Start: 14 @51566 has 5 MA's), (21, 51620), (32, 51749), (36, 51776),

Gene: LiSara_90 Start: 54187, Stop: 54489, Start Num: 16
Candidate Starts for LiSara_90:
(Start: 16 @54187 has 4 MA's), (23, 54238), (27, 54277), (31, 54334), (32, 54352), (37, 54403),

Gene: MAckerman_77 Start: 51548, Stop: 51883, Start Num: 10
Candidate Starts for MAckerman_77:
(Start: 10 @51548 has 15 MA's), (Start: 14 @51560 has 5 MA's), (21, 51614), (32, 51743), (36, 51770),

Gene: Molivia_64 Start: 40595, Stop: 40251, Start Num: 12
Candidate Starts for Molivia_64:
(Start: 3 @40664 has 4 MA's), (5, 40637), (7, 40622), (Start: 12 @40595 has 1 MA's), (28, 40478), (29, 40445), (31, 40418), (33, 40397), (34, 40394), (40, 40280),

Gene: OhShagHennessy_76 Start: 51598, Stop: 51921, Start Num: 14

Candidate Starts for OhShagHennessy_76:
(Start: 10 @51586 has 15 MA's), (Start: 14 @51598 has 5 MA's), (21, 51652), (32, 51781), (36, 51808),

Gene: Poochiewood_77 Start: 52903, Stop: 53226, Start Num: 14
Candidate Starts for Poochiewood_77:
(Start: 10 @52891 has 15 MA's), (Start: 14 @52903 has 5 MA's), (21, 52957), (32, 53086), (36, 53113),

Gene: Quby_80 Start: 52597, Stop: 52962, Start Num: 4
Candidate Starts for Quby_80:
(Start: 4 @52597 has 2 MA's), (20, 52684), (21, 52693), (28, 52747), (35, 52837),

Gene: Rings_63 Start: 42235, Stop: 41900, Start Num: 11
Candidate Starts for Rings_63:
(Start: 11 @42235 has 12 MA's), (22, 42172), (28, 42115), (31, 42055), (33, 42034), (34, 42031), (35, 42022),

Gene: Rose5_79 Start: 52728, Stop: 53063, Start Num: 10
Candidate Starts for Rose5_79:
(Start: 10 @52728 has 15 MA's), (Start: 14 @52740 has 5 MA's), (21, 52794), (32, 52923), (36, 52950),

Gene: Salgado_93 Start: 53857, Stop: 54159, Start Num: 16
Candidate Starts for Salgado_93:
(Start: 16 @53857 has 4 MA's), (23, 53908), (27, 53947), (31, 54004), (32, 54022), (37, 54073),

Gene: Silverleaf_79 Start: 52184, Stop: 52519, Start Num: 10
Candidate Starts for Silverleaf_79:
(Start: 10 @52184 has 15 MA's), (Start: 14 @52196 has 5 MA's), (21, 52250), (32, 52379), (36, 52406),

Gene: SorJuana_62 Start: 41794, Stop: 41459, Start Num: 11
Candidate Starts for SorJuana_62:
(Start: 11 @41794 has 12 MA's), (22, 41731), (28, 41674), (31, 41614), (33, 41593), (34, 41590), (35, 41581),

Gene: Thunderclap_62 Start: 42216, Stop: 41881, Start Num: 11
Candidate Starts for Thunderclap_62:
(Start: 11 @42216 has 12 MA's), (22, 42153), (28, 42096), (31, 42036), (33, 42015), (34, 42012), (35, 42003),

Gene: Tourach_81 Start: 54333, Stop: 54737, Start Num: 3
Candidate Starts for Tourach_81:
(Start: 3 @54333 has 4 MA's), (6, 54366), (8, 54387), (19, 54435), (21, 54459), (31, 54579), (35, 54612),

Gene: Tyson_80 Start: 52654, Stop: 52989, Start Num: 10
Candidate Starts for Tyson_80:
(Start: 10 @52654 has 15 MA's), (Start: 14 @52666 has 5 MA's), (21, 52720), (32, 52849), (36, 52876),

Gene: UPIE_78 Start: 52250, Stop: 52585, Start Num: 10
Candidate Starts for UPIE_78:
(Start: 10 @52250 has 15 MA's), (Start: 14 @52262 has 5 MA's), (21, 52316), (32, 52445), (36, 52472),

Gene: Wamburgrxpress_79 Start: 52689, Stop: 53024, Start Num: 10
Candidate Starts for Wamburgrxpress_79:

(Start: 10 @52689 has 15 MA's), (Start: 14 @52701 has 5 MA's), (21, 52755), (32, 52884), (36, 52911),

Gene: Wyatt2_80 Start: 52652, Stop: 52987, Start Num: 10
Candidate Starts for Wyatt2_80:
(Start: 10 @52652 has 15 MA's), (Start: 14 @52664 has 5 MA's), (21, 52718), (32, 52847), (36, 52874),

Gene: Yeezus_62 Start: 42186, Stop: 41851, Start Num: 11
Candidate Starts for Yeezus_62:
(Start: 11 @42186 has 12 MA's), (22, 42123), (28, 42066), (31, 42006), (33, 41985), (34, 41982), (35, 41973),

Gene: Zaria_80 Start: 52104, Stop: 52439, Start Num: 10
Candidate Starts for Zaria_80:
(Start: 10 @52104 has 15 MA's), (Start: 14 @52116 has 5 MA's), (21, 52170), (32, 52299), (36, 52326),

Gene: ZhongYanYuan_79 Start: 53668, Stop: 54072, Start Num: 3
Candidate Starts for ZhongYanYuan_79:
(Start: 3 @53668 has 4 MA's), (6, 53701), (17, 53761), (30, 53911), (31, 53914), (35, 53947),