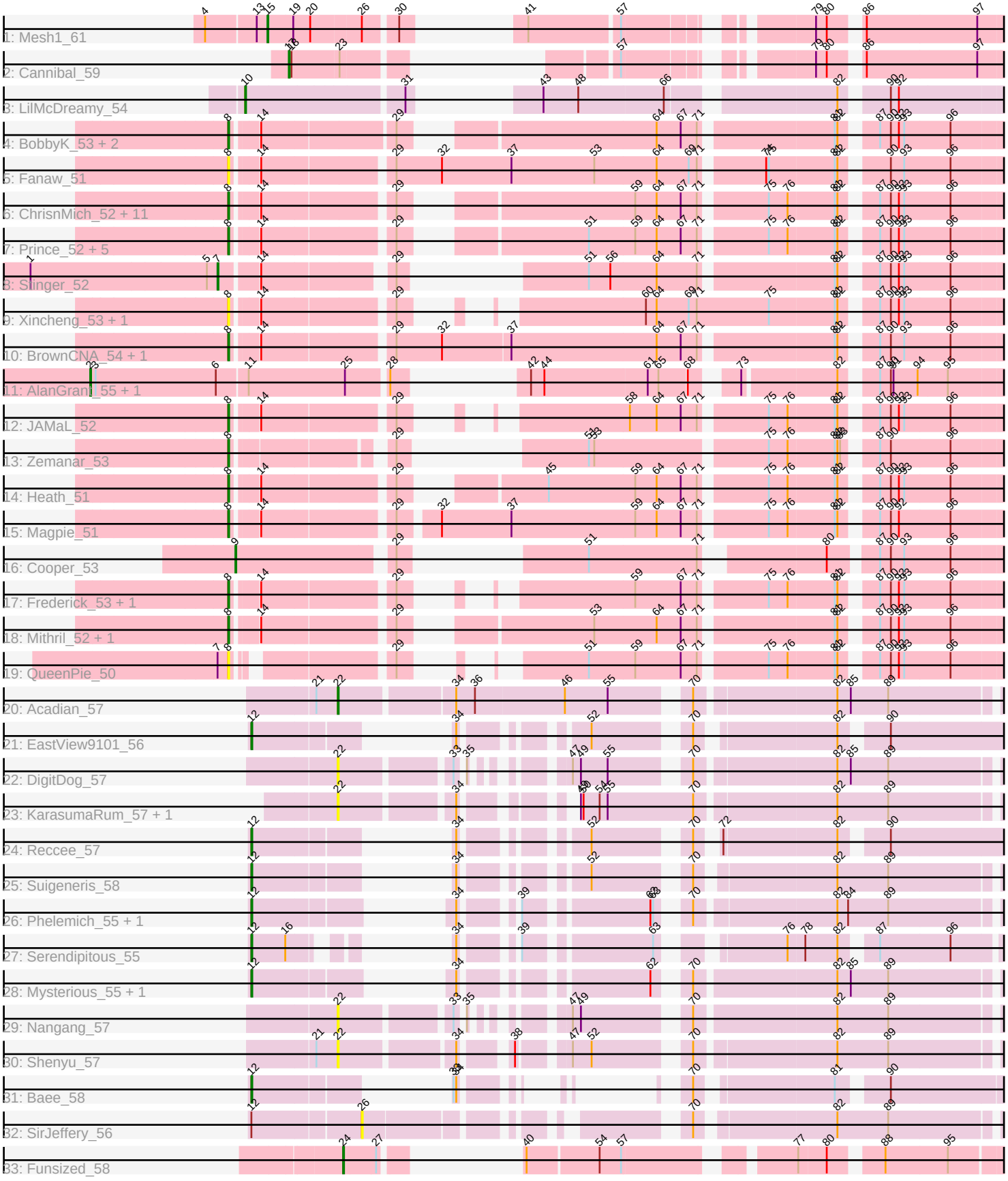
Pham 347656


1: Mesh1_61
2: Cannibal_59
3: LilMcDreamy_54
4: BobbyK_53 + 2
5: Fanaw_51
6: ChrisnMich_52 + 11
7: Prince_52 + 5
8: Slinger_52
9: Xincheng_53 + 1
10: BrownCNA_54 + 1
11: AlanGrant_55 + 1
12: JAMaL_52
13: Zemanar_53
14: Heath_51
15: Magpie_51
16: Cooper_53
17: Frederick_53 + 1
18: Mithril_52 + 1
19: QueenPie_50
20: Acadian_57
21: EastView9101_56
22: DigitDog_57
23: KarasumaRum_57 + 1
24: Reccee_57
25: Suigeneris_58
26: Phelemich_55 + 1
27: Serendipitous_55
28: Mysterious_55 + 1
29: Nangang_57
30: Shenyu_57
31: Baee_58
32: SirJeffery_56
33: Funsized_58

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 347656 Report

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

Pham number 347656 has 59 members, 18 are drafts.

Phages represented in each track:
- Track 1 : Mesh1_61
- Track 2 : Cannibal_59
- Track 3 : LilMcDreamy_54
- Track 4 : BobbyK_53, JoyceMaria_52, Hangman_52
- Track 5 : Fanaw_51
- Track 6 : ChrisnMich_52, Fortunato_53, Hally898_51, Epah_51, Antihero_51, Lolalove_53, GinPorsche_52, Ahwei_51, Poster_51, Nanao_51, Lambano_51, Hydro_52
- Track 7 : Prince_52, LittleDigger_51, Apex_53, Austelle_53, Renkei_51, Mudslide_52
- Track 8 : Stinger_52
- Track 9 : Xincheng_53, JaguarMi_54
- Track 10 : BrownCNA_54, Waleliano_52
- Track 11 : AlanGrant_55, Vincenzo_54
- Track 12 : JAMaL_52
- Track 13 : Zemanar_53
- Track 14 : Heath_51
- Track 15 : Magpie_51
- Track 16 : Cooper_53
- Track 17 : Frederick_53, RawrgerThat_53
- Track 18 : Mithril_52, VioletZ_54
- Track 19 : QueenPie_50
- Track 20 : Acadian_57
- Track 21 : EastView9101_56
- Track 22 : DigitDog_57
- Track 23 : KarasumaRum_57, StinkyVeggy_57
- Track 24 : Reccee_57
- Track 25 : Suigeneris_58
- Track 26 : Phelemich_55, Reprobate_56
- Track 27 : Serendipitous_55
- Track 28 : Mysterious_55, Nehemiah_56
- Track 29 : Nangang_57
- Track 30 : Shenyu_57
- Track 31 : Baee_58
- Track 32 : SirJeffery_56
- Track 33 : Funsized_58

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

The start number called the most often in the published annotations is 8, it was called in 24 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ahwei_51, Antihero_51, Apex_53, Austelle_53, BobbyK_53, BrownCNA_54, ChrisnMich_52, Epah_51, Fanaw_51, Fortunato_53, Frederick_53, GinPorsche_52, Hally898_51, Hangman_52, Heath_51, Hydro_52, JAMaL_52, JaguarMi_54, JoyceMaria_52, Lambano_51, LittleDigger_51, Lolalove_53, Magpie_51, Mithril_52, Mudslide_52, Nanao_51, Poster_51, Prince_52, QueenPie_50, RawrgerThat_53, Renkei_51, VioletZ_54, Waleliano_52, Xincheng_53, Zemanar_53,

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

Genes that do not have the "Most Annotated" start:
• Acadian_57, AlanGrant_55, Baee_58, Cannibal_59, Cooper_53, DigitDog_57, EastView9101_56, Funsized_58, KarasumaRum_57, LilMcDreamy_54, Mesh1_61, Mysterious_55, Nangang_57, Nehemiah_56, Phelemich_55, Reccee_57, Reprobate_56, Serendipitous_55, Shenyu_57, SirJeffery_56, Stinger_52, StinkyVeggy_57, Suigeneris_58, Vincenzo_54,

Summary by start number:

Start 2:
• Found in 2 of 59 (3.4%) of genes in pham
• Manual Annotations of this start: 2 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AlanGrant_55 (B4), Vincenzo_54 (B4),

Start 7:
• Found in 2 of 59 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 41
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Stinger_52 (B4),

Start 8:
• Found in 35 of 59 (59.3%) of genes in pham
• Manual Annotations of this start: 24 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ahwei_51 (B4), Antihero_51 (B4), Apex_53 (B4), Austelle_53 (B4), BobbyK_53 (B4), BrownCNA_54 (B4), ChrisnMich_52 (B4), Epah_51 (B4), Fanaw_51 (B4), Fortunato_53 (B4), Frederick_53 (B4), GinPorsche_52 (B4), Hally898_51 (B4), Hangman_52 (B4), Heath_51 (B4), Hydro_52 (B4), JAMaL_52 (B4), JaguarMi_54 (B4), JoyceMaria_52 (B4), Lambano_51 (B4), LittleDigger_51 (B4), Lolalove_53 (B4), Magpie_51 (B4), Mithril_52 (B4), Mudslide_52 (B4), Nanao_51 (B4), Poster_51 (B4), Prince_52 (B4), QueenPie_50 (B4), RawrgerThat_53 (B4), Renkei_51 (B4), VioletZ_54 (B4), Waleliano_52 (B4), Xincheng_53 (B4), Zemanar_53 (B4),

Start 9:
• Found in 1 of 59 (1.7%) of genes in pham
• Manual Annotations of this start: 1 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cooper_53 (B4),

Start 10:
• Found in 1 of 59 (1.7%) of genes in pham
• Manual Annotations of this start: 1 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LilMcDreamy_54 (B12),

Start 12:
• Found in 10 of 59 (16.9%) of genes in pham
• Manual Annotations of this start: 8 of 41
• Called 90.0% of time when present
• Phage (with cluster) where this start called: Baee_58 (B5), EastView9101_56 (B5), Mysterious_55 (B5), Nehemiah_56 (B5), Phelemich_55 (B5), Reccee_57 (B5), Reprobate_56 (B5), Serendipitous_55 (B5), Suigeneris_58 (B5),

Start 15:
• Found in 1 of 59 (1.7%) of genes in pham
• Manual Annotations of this start: 1 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mesh1_61 (B1),

Start 17:
• Found in 1 of 59 (1.7%) of genes in pham
• Manual Annotations of this start: 1 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cannibal_59 (B1),

Start 22:
• Found in 6 of 59 (10.2%) of genes in pham
• Manual Annotations of this start: 1 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acadian_57 (B5), DigitDog_57 (B5), KarasumaRum_57 (B5), Nangang_57 (B5), Shenyu_57 (B5), StinkyVeggy_57 (B5),

Start 24:
• Found in 1 of 59 (1.7%) of genes in pham
• Manual Annotations of this start: 1 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Funsized_58 (B9),

Start 26:
• Found in 2 of 59 (3.4%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: SirJeffery_56 (B5),

Summary by clusters:

There are 5 clusters represented in this pham: B4, B5, B12, B9, B1,

Info for manual annotations of cluster B1:
•Start number 15 was manually annotated 1 time for cluster B1.
•Start number 17 was manually annotated 1 time for cluster B1.

Info for manual annotations of cluster B12:
•Start number 10 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B4:
•Start number 2 was manually annotated 2 times for cluster B4.
•Start number 7 was manually annotated 1 time for cluster B4.
•Start number 8 was manually annotated 24 times for cluster B4.
•Start number 9 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster B5:
•Start number 12 was manually annotated 8 times for cluster B5.
•Start number 22 was manually annotated 1 time for cluster B5.

Info for manual annotations of cluster B9:
•Start number 24 was manually annotated 1 time for cluster B9.

Gene Information:

Gene: Acadian_57 Start: 52639, Stop: 51956, Start Num: 22
Candidate Starts for Acadian_57:
(21, 52663), (Start: 22 @52639 has 1 MA's), (34, 52519), (36, 52498), (46, 52399), (55, 52351), (70, 52279), (82, 52132), (85, 52117), (89, 52075),

Gene: Ahwei_51 Start: 51165, Stop: 50473, Start Num: 8
Candidate Starts for Ahwei_51:
(Start: 8 @51165 has 24 MA's), (14, 51141), (29, 51006), (59, 50847), (64, 50823), (67, 50796), (71, 50778), (75, 50712), (76, 50691), (81, 50640), (82, 50637), (87, 50607), (90, 50595), (92, 50586), (93, 50580), (96, 50529),

Gene: AlanGrant_55 Start: 53102, Stop: 52275, Start Num: 2
Candidate Starts for AlanGrant_55:
(Start: 2 @53102 has 2 MA's), (3, 53096), (6, 52961), (11, 52928), (25, 52820), (28, 52778), (42, 52742), (44, 52727), (61, 52616), (65, 52604), (68, 52574), (73, 52538), (82, 52439), (87, 52409), (90, 52397), (91, 52394), (94, 52367), (95, 52334),

Gene: Antihero_51 Start: 51163, Stop: 50471, Start Num: 8
Candidate Starts for Antihero_51:
(Start: 8 @51163 has 24 MA's), (14, 51139), (29, 51004), (59, 50845), (64, 50821), (67, 50794), (71, 50776), (75, 50710), (76, 50689), (81, 50638), (82, 50635), (87, 50605), (90, 50593), (92, 50584), (93, 50578), (96, 50527),

Gene: Apex_53 Start: 52379, Stop: 51633, Start Num: 8
Candidate Starts for Apex_53:

(Start: 8 @52379 has 24 MA's), (14, 52355), (29, 52220), (51, 52058), (59, 52007), (64, 51983), (67, 51956), (71, 51938), (75, 51872), (76, 51851), (81, 51800), (82, 51797), (87, 51767), (90, 51755), (92, 51746), (93, 51740), (96, 51689),

Gene: Austelle_53 Start: 52832, Stop: 52086, Start Num: 8
Candidate Starts for Austelle_53:
(Start: 8 @52832 has 24 MA's), (14, 52808), (29, 52673), (51, 52511), (59, 52460), (64, 52436), (67, 52409), (71, 52391), (75, 52325), (76, 52304), (81, 52253), (82, 52250), (87, 52220), (90, 52208), (92, 52199), (93, 52193), (96, 52142),

Gene: Baee_58 Start: 53704, Stop: 53204, Start Num: 12
Candidate Starts for Baee_58:
(Start: 12 @53704 has 8 MA's), (33, 53590), (34, 53587), (70, 53518), (81, 53383), (90, 53338),

Gene: BobbyK_53 Start: 52148, Stop: 51396, Start Num: 8
Candidate Starts for BobbyK_53:
(Start: 8 @52148 has 24 MA's), (14, 52124), (29, 51983), (64, 51746), (67, 51719), (71, 51701), (81, 51563), (82, 51560), (87, 51530), (90, 51518), (92, 51509), (93, 51503), (96, 51452),

Gene: BrownCNA_54 Start: 52490, Stop: 51693, Start Num: 8
Candidate Starts for BrownCNA_54:
(Start: 8 @52490 has 24 MA's), (14, 52466), (29, 52331), (32, 52280), (37, 52205), (64, 52043), (67, 52016), (71, 51998), (81, 51860), (82, 51857), (87, 51827), (90, 51815), (93, 51800), (96, 51749),

Gene: Cannibal_59 Start: 52414, Stop: 51866, Start Num: 17
Candidate Starts for Cannibal_59:
(Start: 17 @52414 has 1 MA's), (18, 52411), (23, 52360), (57, 52222), (79, 52060), (80, 52048), (86, 52021), (97, 51898),

Gene: ChrisnMich_52 Start: 51144, Stop: 50398, Start Num: 8
Candidate Starts for ChrisnMich_52:
(Start: 8 @51144 has 24 MA's), (14, 51120), (29, 50985), (59, 50772), (64, 50748), (67, 50721), (71, 50703), (75, 50637), (76, 50616), (81, 50565), (82, 50562), (87, 50532), (90, 50520), (92, 50511), (93, 50505), (96, 50454),

Gene: Cooper_53 Start: 51371, Stop: 50706, Start Num: 9
Candidate Starts for Cooper_53:
(Start: 9 @51371 has 1 MA's), (29, 51209), (51, 51119), (71, 50999), (80, 50885), (87, 50840), (90, 50828), (93, 50813), (96, 50762),

Gene: DigitDog_57 Start: 52573, Stop: 51959, Start Num: 22
Candidate Starts for DigitDog_57:
(Start: 22 @52573 has 1 MA's), (33, 52462), (35, 52456), (47, 52393), (49, 52384), (55, 52354), (70, 52282), (82, 52135), (85, 52120), (89, 52078),

Gene: EastView9101_56 Start: 52507, Stop: 51881, Start Num: 12
Candidate Starts for EastView9101_56:
(Start: 12 @52507 has 8 MA's), (34, 52390), (52, 52288), (70, 52198), (82, 52060), (90, 52018),

Gene: Epah_51 Start: 51163, Stop: 50471, Start Num: 8
Candidate Starts for Epah_51:
(Start: 8 @51163 has 24 MA's), (14, 51139), (29, 51004), (59, 50845), (64, 50821), (67, 50794), (71, 50776), (75, 50710), (76, 50689), (81, 50638), (82, 50635), (87, 50605), (90, 50593), (92, 50584), (93,

50578), (96, 50527),

Gene: Fanaw_51 Start: 51919, Stop: 51119, Start Num: 8
Candidate Starts for Fanaw_51:
(Start: 8 @51919 has 24 MA's), (14, 51895), (29, 51760), (32, 51709), (37, 51631), (53, 51538), (64, 51469), (69, 51433), (71, 51424), (74, 51361), (75, 51358), (81, 51286), (82, 51283), (90, 51241), (93, 51226), (96, 51175),

Gene: Fortunato_53 Start: 52173, Stop: 51481, Start Num: 8
Candidate Starts for Fortunato_53:
(Start: 8 @52173 has 24 MA's), (14, 52149), (29, 52014), (59, 51855), (64, 51831), (67, 51804), (71, 51786), (75, 51720), (76, 51699), (81, 51648), (82, 51645), (87, 51615), (90, 51603), (92, 51594), (93, 51588), (96, 51537),

Gene: Frederick_53 Start: 52088, Stop: 51396, Start Num: 8
Candidate Starts for Frederick_53:
(Start: 8 @52088 has 24 MA's), (14, 52064), (29, 51929), (59, 51770), (67, 51719), (71, 51701), (75, 51635), (76, 51614), (81, 51563), (82, 51560), (87, 51530), (90, 51518), (92, 51509), (93, 51503), (96, 51452),

Gene: Funsized_58 Start: 54241, Stop: 53717, Start Num: 24
Candidate Starts for Funsized_58:
(Start: 24 @54241 has 1 MA's), (27, 54208), (40, 54178), (54, 54103), (57, 54079), (77, 53923), (80, 53893), (88, 53845), (95, 53776),

Gene: GinPorsche_52 Start: 51163, Stop: 50471, Start Num: 8
Candidate Starts for GinPorsche_52:
(Start: 8 @51163 has 24 MA's), (14, 51139), (29, 51004), (59, 50845), (64, 50821), (67, 50794), (71, 50776), (75, 50710), (76, 50689), (81, 50638), (82, 50635), (87, 50605), (90, 50593), (92, 50584), (93, 50578), (96, 50527),

Gene: Hally898_51 Start: 51178, Stop: 50486, Start Num: 8
Candidate Starts for Hally898_51:
(Start: 8 @51178 has 24 MA's), (14, 51154), (29, 51019), (59, 50860), (64, 50836), (67, 50809), (71, 50791), (75, 50725), (76, 50704), (81, 50653), (82, 50650), (87, 50620), (90, 50608), (92, 50599), (93, 50593), (96, 50542),

Gene: Hangman_52 Start: 52233, Stop: 51475, Start Num: 8
Candidate Starts for Hangman_52:
(Start: 8 @52233 has 24 MA's), (14, 52209), (29, 52062), (64, 51825), (67, 51798), (71, 51780), (81, 51642), (82, 51639), (87, 51609), (90, 51597), (92, 51588), (93, 51582), (96, 51531),

Gene: Heath_51 Start: 51844, Stop: 51098, Start Num: 8
Candidate Starts for Heath_51:
(Start: 8 @51844 has 24 MA's), (14, 51820), (29, 51685), (45, 51568), (59, 51472), (64, 51448), (67, 51421), (71, 51403), (75, 51337), (76, 51316), (81, 51265), (82, 51262), (87, 51232), (90, 51220), (92, 51211), (93, 51205), (96, 51154),

Gene: Hydro_52 Start: 52225, Stop: 51479, Start Num: 8
Candidate Starts for Hydro_52:
(Start: 8 @52225 has 24 MA's), (14, 52201), (29, 52066), (59, 51853), (64, 51829), (67, 51802), (71, 51784), (75, 51718), (76, 51697), (81, 51646), (82, 51643), (87, 51613), (90, 51601), (92, 51592), (93, 51586), (96, 51535),

Gene: JAMaL_52 Start: 52342, Stop: 51650, Start Num: 8
Candidate Starts for JAMaL_52:
(Start: 8 @52342 has 24 MA's), (14, 52318), (29, 52183), (58, 52030), (64, 52000), (67, 51973), (71, 51955), (75, 51889), (76, 51868), (81, 51817), (82, 51814), (87, 51784), (90, 51772), (92, 51763), (93, 51757), (96, 51706),

Gene: JaguarMi_54 Start: 53280, Stop: 52573, Start Num: 8
Candidate Starts for JaguarMi_54:
(Start: 8 @53280 has 24 MA's), (14, 53256), (29, 53121), (60, 52950), (64, 52938), (69, 52902), (71, 52893), (75, 52812), (81, 52740), (82, 52737), (87, 52707), (90, 52695), (92, 52686), (93, 52680), (96, 52629),

Gene: JoyceMaria_52 Start: 52113, Stop: 51367, Start Num: 8
Candidate Starts for JoyceMaria_52:
(Start: 8 @52113 has 24 MA's), (14, 52089), (29, 51954), (64, 51717), (67, 51690), (71, 51672), (81, 51534), (82, 51531), (87, 51501), (90, 51489), (92, 51480), (93, 51474), (96, 51423),

Gene: KarasumaRum_57 Start: 52746, Stop: 52102, Start Num: 22
Candidate Starts for KarasumaRum_57:
(Start: 22 @52746 has 1 MA's), (34, 52632), (49, 52551), (50, 52548), (54, 52530), (55, 52521), (70, 52425), (82, 52278), (89, 52221),

Gene: Lambano_51 Start: 51178, Stop: 50486, Start Num: 8
Candidate Starts for Lambano_51:
(Start: 8 @51178 has 24 MA's), (14, 51154), (29, 51019), (59, 50860), (64, 50836), (67, 50809), (71, 50791), (75, 50725), (76, 50704), (81, 50653), (82, 50650), (87, 50620), (90, 50608), (92, 50599), (93, 50593), (96, 50542),

Gene: LilMcDreamy_54 Start: 51860, Stop: 51186, Start Num: 10
Candidate Starts for LilMcDreamy_54:
(Start: 10 @51860 has 1 MA's), (31, 51695), (43, 51653), (48, 51614), (66, 51524), (82, 51359), (90, 51317), (92, 51308),

Gene: LittleDigger_51 Start: 51191, Stop: 50499, Start Num: 8
Candidate Starts for LittleDigger_51:
(Start: 8 @51191 has 24 MA's), (14, 51167), (29, 51032), (51, 50924), (59, 50873), (64, 50849), (67, 50822), (71, 50804), (75, 50738), (76, 50717), (81, 50666), (82, 50663), (87, 50633), (90, 50621), (92, 50612), (93, 50606), (96, 50555),

Gene: Lolalove_53 Start: 52193, Stop: 51447, Start Num: 8
Candidate Starts for Lolalove_53:
(Start: 8 @52193 has 24 MA's), (14, 52169), (29, 52034), (59, 51821), (64, 51797), (67, 51770), (71, 51752), (75, 51686), (76, 51665), (81, 51614), (82, 51611), (87, 51581), (90, 51569), (92, 51560), (93, 51554), (96, 51503),

Gene: Magpie_51 Start: 52088, Stop: 51300, Start Num: 8
Candidate Starts for Magpie_51:
(Start: 8 @52088 has 24 MA's), (14, 52064), (29, 51929), (32, 51890), (37, 51812), (59, 51674), (64, 51650), (67, 51623), (71, 51605), (75, 51539), (76, 51518), (81, 51467), (82, 51464), (87, 51434), (90, 51422), (92, 51413), (96, 51356),

Gene: Mesh1_61 Start: 52743, Stop: 52129, Start Num: 15

Candidate Starts for Mesh1_61:
(4, 52809), (13, 52755), (Start: 15 @52743 has 1 MA's), (19, 52716), (20, 52698), (26, 52644), (30, 52611), (41, 52578), (57, 52485), (79, 52323), (80, 52311), (86, 52284), (97, 52161),

Gene: Mithril_52 Start: 52185, Stop: 51439, Start Num: 8
Candidate Starts for Mithril_52:
(Start: 8 @52185 has 24 MA's), (14, 52161), (29, 52026), (53, 51858), (64, 51789), (67, 51762), (71, 51744), (81, 51606), (82, 51603), (87, 51573), (90, 51561), (92, 51552), (93, 51546), (96, 51495),

Gene: Mudslide_52 Start: 52443, Stop: 51697, Start Num: 8
Candidate Starts for Mudslide_52:
(Start: 8 @52443 has 24 MA's), (14, 52419), (29, 52284), (51, 52122), (59, 52071), (64, 52047), (67, 52020), (71, 52002), (75, 51936), (76, 51915), (81, 51864), (82, 51861), (87, 51831), (90, 51819), (92, 51810), (93, 51804), (96, 51753),

Gene: Mysterious_55 Start: 52741, Stop: 52097, Start Num: 12
Candidate Starts for Mysterious_55:
(Start: 12 @52741 has 8 MA's), (34, 52615), (62, 52447), (70, 52423), (82, 52273), (85, 52258), (89, 52216),

Gene: Nanao_51 Start: 51168, Stop: 50476, Start Num: 8
Candidate Starts for Nanao_51:
(Start: 8 @51168 has 24 MA's), (14, 51144), (29, 51009), (59, 50850), (64, 50826), (67, 50799), (71, 50781), (75, 50715), (76, 50694), (81, 50643), (82, 50640), (87, 50610), (90, 50598), (92, 50589), (93, 50583), (96, 50532),

Gene: Nangang_57 Start: 52928, Stop: 52311, Start Num: 22
Candidate Starts for Nangang_57:
(Start: 22 @52928 has 1 MA's), (33, 52817), (35, 52811), (47, 52748), (49, 52739), (70, 52637), (82, 52487), (89, 52430),

Gene: Nehemiah_56 Start: 52741, Stop: 52097, Start Num: 12
Candidate Starts for Nehemiah_56:
(Start: 12 @52741 has 8 MA's), (34, 52615), (62, 52447), (70, 52423), (82, 52273), (85, 52258), (89, 52216),

Gene: Phelemich_55 Start: 52737, Stop: 52096, Start Num: 12
Candidate Starts for Phelemich_55:
(Start: 12 @52737 has 8 MA's), (34, 52611), (39, 52566), (62, 52443), (63, 52440), (70, 52419), (82, 52272), (84, 52260), (89, 52215),

Gene: Poster_51 Start: 51169, Stop: 50477, Start Num: 8
Candidate Starts for Poster_51:
(Start: 8 @51169 has 24 MA's), (14, 51145), (29, 51010), (59, 50851), (64, 50827), (67, 50800), (71, 50782), (75, 50716), (76, 50695), (81, 50644), (82, 50641), (87, 50611), (90, 50599), (92, 50590), (93, 50584), (96, 50533),

Gene: Prince_52 Start: 52350, Stop: 51604, Start Num: 8
Candidate Starts for Prince_52:
(Start: 8 @52350 has 24 MA's), (14, 52326), (29, 52191), (51, 52029), (59, 51978), (64, 51954), (67, 51927), (71, 51909), (75, 51843), (76, 51822), (81, 51771), (82, 51768), (87, 51738), (90, 51726), (92, 51717), (93, 51711), (96, 51660),

Gene: QueenPie_50 Start: 51863, Stop: 51195, Start Num: 8
Candidate Starts for QueenPie_50:
(Start: 7 @51875 has 1 MA's), (Start: 8 @51863 has 24 MA's), (29, 51719), (51, 51620), (59, 51569), (67, 51518), (71, 51500), (75, 51434), (76, 51413), (81, 51362), (82, 51359), (87, 51329), (90, 51317), (92, 51308), (93, 51302), (96, 51251),

Gene: RawrgerThat_53 Start: 52205, Stop: 51513, Start Num: 8
Candidate Starts for RawrgerThat_53:
(Start: 8 @52205 has 24 MA's), (14, 52181), (29, 52046), (59, 51887), (67, 51836), (71, 51818), (75, 51752), (76, 51731), (81, 51680), (82, 51677), (87, 51647), (90, 51635), (92, 51626), (93, 51620), (96, 51569),

Gene: Reccee_57 Start: 52769, Stop: 52143, Start Num: 12
Candidate Starts for Reccee_57:
(Start: 12 @52769 has 8 MA's), (34, 52652), (52, 52550), (70, 52460), (72, 52445), (82, 52322), (90, 52280),

Gene: Renkei_51 Start: 51185, Stop: 50493, Start Num: 8
Candidate Starts for Renkei_51:
(Start: 8 @51185 has 24 MA's), (14, 51161), (29, 51026), (51, 50918), (59, 50867), (64, 50843), (67, 50816), (71, 50798), (75, 50732), (76, 50711), (81, 50660), (82, 50657), (87, 50627), (90, 50615), (92, 50606), (93, 50600), (96, 50549),

Gene: Reprobate_56 Start: 52742, Stop: 52101, Start Num: 12
Candidate Starts for Reprobate_56:
(Start: 12 @52742 has 8 MA's), (34, 52616), (39, 52571), (62, 52448), (63, 52445), (70, 52424), (82, 52277), (84, 52265), (89, 52220),

Gene: Serendipitous_55 Start: 51901, Stop: 51308, Start Num: 12
Candidate Starts for Serendipitous_55:
(Start: 12 @51901 has 8 MA's), (16, 51865), (34, 51808), (39, 51763), (63, 51637), (76, 51532), (78, 51514), (82, 51478), (87, 51448), (96, 51370),

Gene: Shenyu_57 Start: 52961, Stop: 52323, Start Num: 22
Candidate Starts for Shenyu_57:
(21, 52985), (Start: 22 @52961 has 1 MA's), (34, 52844), (38, 52802), (47, 52757), (52, 52736), (70, 52646), (82, 52499), (89, 52442),

Gene: SirJeffery_56 Start: 52558, Stop: 51962, Start Num: 26
Candidate Starts for SirJeffery_56:
(Start: 12 @52672 has 8 MA's), (26, 52558), (70, 52279), (82, 52138), (89, 52081),

Gene: Stinger_52 Start: 50893, Stop: 50213, Start Num: 7
Candidate Starts for Stinger_52:
(1, 51100), (5, 50905), (Start: 7 @50893 has 1 MA's), (14, 50854), (29, 50725), (51, 50638), (56, 50614), (64, 50563), (71, 50518), (81, 50380), (82, 50377), (87, 50347), (90, 50335), (92, 50326), (93, 50320), (96, 50269),

Gene: StinkyVeggy_57 Start: 52746, Stop: 52102, Start Num: 22
Candidate Starts for StinkyVeggy_57:
(Start: 22 @52746 has 1 MA's), (34, 52632), (49, 52551), (50, 52548), (54, 52530), (55, 52521), (70, 52425), (82, 52278), (89, 52221),

Gene: Suigeneris_58 Start: 52838, Stop: 52212, Start Num: 12
Candidate Starts for Suigeneris_58:
(Start: 12 @52838 has 8 MA's), (34, 52721), (52, 52619), (70, 52529), (82, 52388), (89, 52331),

Gene: Vincenzo_54 Start: 53132, Stop: 52305, Start Num: 2
Candidate Starts for Vincenzo_54:
(Start: 2 @53132 has 2 MA's), (3, 53126), (6, 52991), (11, 52958), (25, 52850), (28, 52808), (42, 52772), (44, 52757), (61, 52646), (65, 52634), (68, 52604), (73, 52568), (82, 52469), (87, 52439), (90, 52427), (91, 52424), (94, 52397), (95, 52364),

Gene: VioletZ_54 Start: 52269, Stop: 51523, Start Num: 8
Candidate Starts for VioletZ_54:
(Start: 8 @52269 has 24 MA's), (14, 52245), (29, 52110), (53, 51942), (64, 51873), (67, 51846), (71, 51828), (81, 51690), (82, 51687), (87, 51657), (90, 51645), (92, 51636), (93, 51630), (96, 51579),

Gene: Waleliano_52 Start: 52222, Stop: 51425, Start Num: 8
Candidate Starts for Waleliano_52:
(Start: 8 @52222 has 24 MA's), (14, 52198), (29, 52063), (32, 52012), (37, 51937), (64, 51775), (67, 51748), (71, 51730), (81, 51592), (82, 51589), (87, 51559), (90, 51547), (93, 51532), (96, 51481),

Gene: Xincheng_53 Start: 53256, Stop: 52549, Start Num: 8
Candidate Starts for Xincheng_53:
(Start: 8 @53256 has 24 MA's), (14, 53232), (29, 53097), (60, 52926), (64, 52914), (69, 52878), (71, 52869), (75, 52788), (81, 52716), (82, 52713), (87, 52683), (90, 52671), (92, 52662), (93, 52656), (96, 52605),

Gene: Zemanar_53 Start: 52057, Stop: 51395, Start Num: 8
Candidate Starts for Zemanar_53:
(Start: 8 @52057 has 24 MA's), (29, 51910), (51, 51820), (53, 51814), (75, 51634), (76, 51613), (81, 51562), (82, 51559), (83, 51556), (87, 51529), (90, 51517), (96, 51451),