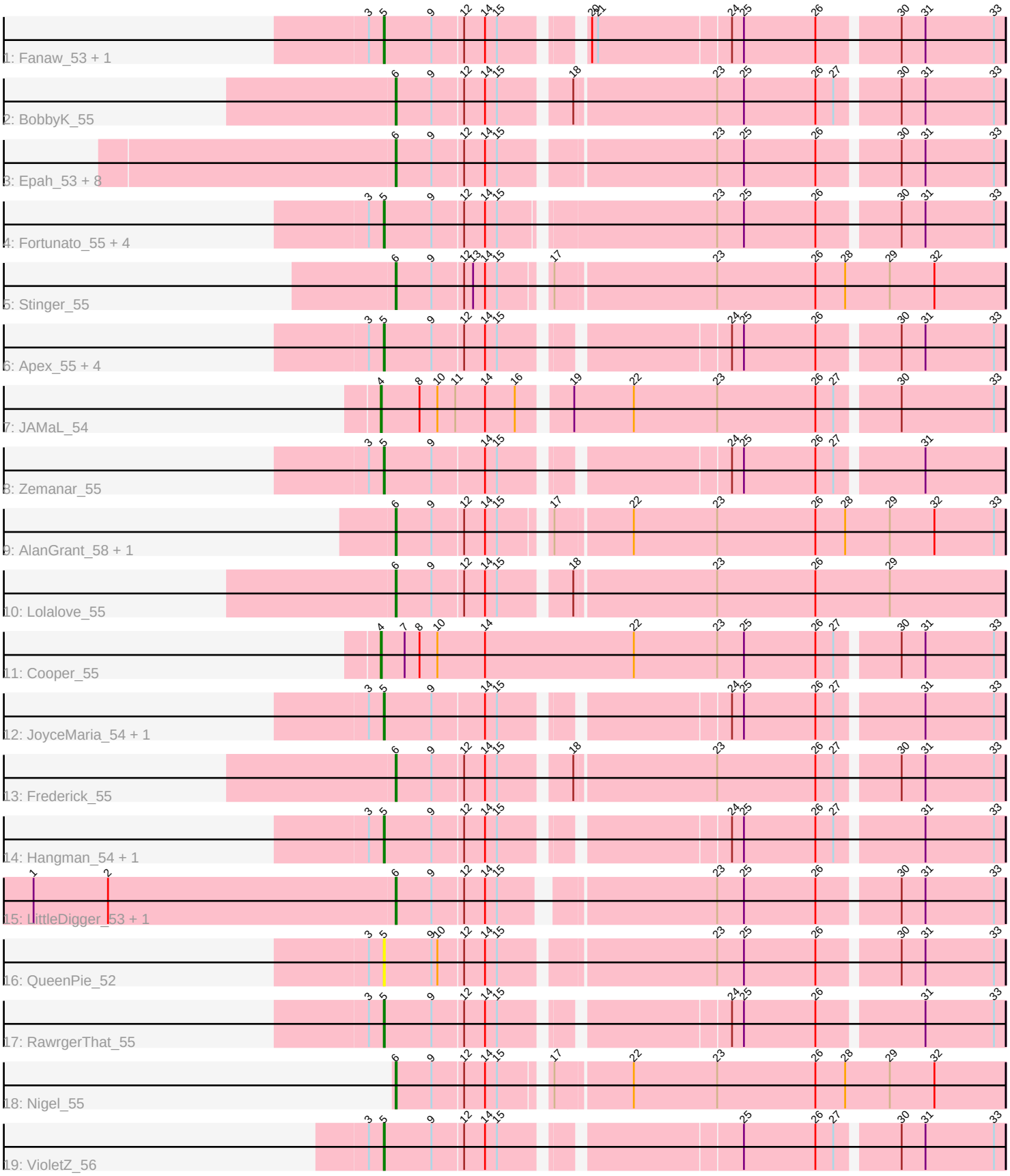
Pham 344165


1: Fanaw_53 + 1
2: BobbyK_55
3: Epah_53 + 8
4: Fortunato_55 + 4
5: Stinger_55
6: Apex_55 + 4
7: JAMaL_54
8: Zemanar_55
9: AlanGrant_58 + 1
10: Lolalove_55
11: Cooper_55
12: JoyceMaria_54 + 1
13: Frederick_55
14: Hangman_54 + 1
15: LittleDigger_53 + 1
16: QueenPie_52
17: RawrgerThat_55
18: Nigel_55
19: VioletZ_56

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 344165 Report

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

Pham number 344165 has 40 members, 11 are drafts.

Phages represented in each track:
• Track 1 : Fanaw_53, Mithril_54
• Track 2 : BobbyK_55
• Track 3 : Epah_53, GinPorsche_54, Hally898_53, Lambano_53, Hydro_54, Antihero_53, Ahwei_53, Poster_53, Nanao_53
• Track 4 : Fortunato_55, ChrisnMich_54, Heath_53, Prince_54, Magpie_53
• Track 5 : Stinger_55
• Track 6 : Apex_55, Xincheng_55, Austelle_55, JaguarMi_56, Mudslide_54
• Track 7 : JAMaL_54
• Track 8 : Zemanar_55
• Track 9 : AlanGrant_58, Vincenzo_57
• Track 10 : Lolalove_55
• Track 11 : Cooper_55
• Track 12 : JoyceMaria_54, Waleliano_54
• Track 13 : Frederick_55
• Track 14 : Hangman_54, BrownCNA_56
• Track 15 : LittleDigger_53, Renkei_53
• Track 16 : QueenPie_52
• Track 17 : RawrgerThat_55
• Track 18 : Nigel_55
• Track 19 : VioletZ_56

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 16 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Apex_55, Austelle_55, BrownCNA_56, ChrisnMich_54, Fanaw_53, Fortunato_55, Hangman_54, Heath_53, JaguarMi_56, JoyceMaria_54, Magpie_53, Mithril_54, Mudslide_54, Prince_54, QueenPie_52, RawrgerThat_55, VioletZ_56, Waleliano_54, Xincheng_55, Zemanar_55,

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

Genes that do not have the "Most Annotated" start:
• Ahwei_53, AlanGrant_58, Antihero_53, BobbyK_55, Cooper_55, Epah_53, Frederick_55, GinPorsche_54, Hally898_53, Hydro_54, JAMaL_54, Lambano_53, LittleDigger_53, Lolalove_55, Nanao_53, Nigel_55, Poster_53, Renkei_53, Stinger_55, Vincenzo_57,

Summary by start number:

Start 4:
• Found in 2 of 40 (5.0%) of genes in pham
• Manual Annotations of this start: 2 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cooper_55 (B4), JAMaL_54 (B4),

Start 5:
• Found in 20 of 40 (50.0%) of genes in pham
• Manual Annotations of this start: 16 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apex_55 (B4), Austelle_55 (B4), BrownCNA_56 (B4), ChrisnMich_54 (B4), Fanaw_53 (B4), Fortunato_55 (B4), Hangman_54 (B4), Heath_53 (B4), JaguarMi_56 (B4), JoyceMaria_54 (B4), Magpie_53 (B4), Mithril_54 (B4), Mudslide_54 (B4), Prince_54 (B4), QueenPie_52 (B4), RawrgerThat_55 (B4), VioletZ_56 (B4), Waleliano_54 (B4), Xincheng_55 (B4), Zemanar_55 (B4),

Start 6:
• Found in 18 of 40 (45.0%) of genes in pham
• Manual Annotations of this start: 11 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ahwei_53 (B4), AlanGrant_58 (B4), Antihero_53 (B4), BobbyK_55 (B4), Epah_53 (B4), Frederick_55 (B4), GinPorsche_54 (B4), Hally898_53 (B4), Hydro_54 (B4), Lambano_53 (B4), LittleDigger_53 (B4), Lolalove_55 (B4), Nanao_53 (B4), Nigel_55 (B4), Poster_53 (B4), Renkei_53 (B4), Stinger_55 (B4), Vincenzo_57 (B4),

Summary by clusters:

There is one cluster represented in this pham: B4

Info for manual annotations of cluster B4:
•Start number 4 was manually annotated 2 times for cluster B4.
•Start number 5 was manually annotated 16 times for cluster B4.
•Start number 6 was manually annotated 11 times for cluster B4.

Gene Information:

Gene: Ahwei_53 Start: 53560, Stop: 52982, Start Num: 6
Candidate Starts for Ahwei_53:
(Start: 6 @53560 has 11 MA's), (9, 53524), (12, 53494), (14, 53473), (15, 53461), (23, 53260), (25, 53233), (26, 53161), (30, 53086), (31, 53062), (33, 52993),

Gene: AlanGrant_58 Start: 55697, Stop: 55113, Start Num: 6
Candidate Starts for AlanGrant_58:
(Start: 6 @55697 has 11 MA's), (9, 55661), (12, 55631), (14, 55610), (15, 55598), (17, 55559), (22, 55487), (23, 55403), (26, 55304), (28, 55274), (29, 55229), (32, 55184), (33, 55124),

Gene: Antihero_53 Start: 53558, Stop: 52980, Start Num: 6
Candidate Starts for Antihero_53:
(Start: 6 @53558 has 11 MA's), (9, 53522), (12, 53492), (14, 53471), (15, 53459), (23, 53258), (25, 53231), (26, 53159), (30, 53084), (31, 53060), (33, 52991),

Gene: Apex_55 Start: 54771, Stop: 54196, Start Num: 5
Candidate Starts for Apex_55:
(3, 54786), (Start: 5 @54771 has 16 MA's), (9, 54723), (12, 54693), (14, 54672), (15, 54660), (24, 54459), (25, 54447), (26, 54375), (30, 54300), (31, 54276), (33, 54207),

Gene: Austelle_55 Start: 55224, Stop: 54649, Start Num: 5
Candidate Starts for Austelle_55:
(3, 55239), (Start: 5 @55224 has 16 MA's), (9, 55176), (12, 55146), (14, 55125), (15, 55113), (24, 54912), (25, 54900), (26, 54828), (30, 54753), (31, 54729), (33, 54660),

Gene: BobbyK_55 Start: 54543, Stop: 53965, Start Num: 6
Candidate Starts for BobbyK_55:
(Start: 6 @54543 has 11 MA's), (9, 54507), (12, 54477), (14, 54456), (15, 54444), (18, 54381), (23, 54243), (25, 54216), (26, 54144), (27, 54126), (30, 54069), (31, 54045), (33, 53976),

Gene: BrownCNA_56 Start: 54882, Stop: 54307, Start Num: 5
Candidate Starts for BrownCNA_56:
(3, 54897), (Start: 5 @54882 has 16 MA's), (9, 54834), (12, 54804), (14, 54783), (15, 54771), (24, 54570), (25, 54558), (26, 54486), (27, 54468), (31, 54387), (33, 54318),

Gene: ChrisnMich_54 Start: 53551, Stop: 52961, Start Num: 5
Candidate Starts for ChrisnMich_54:
(3, 53566), (Start: 5 @53551 has 16 MA's), (9, 53503), (12, 53473), (14, 53452), (15, 53440), (23, 53239), (25, 53212), (26, 53140), (30, 53065), (31, 53041), (33, 52972),

Gene: Cooper_55 Start: 53843, Stop: 53226, Start Num: 4
Candidate Starts for Cooper_55:
(Start: 4 @53843 has 2 MA's), (7, 53819), (8, 53804), (10, 53786), (14, 53738), (22, 53588), (23, 53504), (25, 53477), (26, 53405), (27, 53387), (30, 53330), (31, 53306), (33, 53237),

Gene: Epah_53 Start: 53558, Stop: 52980, Start Num: 6
Candidate Starts for Epah_53:
(Start: 6 @53558 has 11 MA's), (9, 53522), (12, 53492), (14, 53471), (15, 53459), (23, 53258), (25, 53231), (26, 53159), (30, 53084), (31, 53060), (33, 52991),

Gene: Fanaw_53 Start: 54311, Stop: 53736, Start Num: 5
Candidate Starts for Fanaw_53:
(3, 54326), (Start: 5 @54311 has 16 MA's), (9, 54263), (12, 54233), (14, 54212), (15, 54200), (20, 54134), (21, 54128), (24, 53999), (25, 53987), (26, 53915), (30, 53840), (31, 53816), (33, 53747),

Gene: Fortunato_55 Start: 54580, Stop: 53990, Start Num: 5
Candidate Starts for Fortunato_55:

(3, 54595), (Start: 5 @54580 has 16 MA's), (9, 54532), (12, 54502), (14, 54481), (15, 54469), (23, 54268), (25, 54241), (26, 54169), (30, 54094), (31, 54070), (33, 54001),

Gene: Frederick_55 Start: 54486, Stop: 53908, Start Num: 6
Candidate Starts for Frederick_55:
(Start: 6 @54486 has 11 MA's), (9, 54450), (12, 54420), (14, 54399), (15, 54387), (18, 54324), (23, 54186), (26, 54087), (27, 54069), (30, 54012), (31, 53988), (33, 53919),

Gene: GinPorsche_54 Start: 53558, Stop: 52980, Start Num: 6
Candidate Starts for GinPorsche_54:
(Start: 6 @53558 has 11 MA's), (9, 53522), (12, 53492), (14, 53471), (15, 53459), (23, 53258), (25, 53231), (26, 53159), (30, 53084), (31, 53060), (33, 52991),

Gene: Hally898_53 Start: 53573, Stop: 52995, Start Num: 6
Candidate Starts for Hally898_53:
(Start: 6 @53573 has 11 MA's), (9, 53537), (12, 53507), (14, 53486), (15, 53474), (23, 53273), (25, 53246), (26, 53174), (30, 53099), (31, 53075), (33, 53006),

Gene: Hangman_54 Start: 54625, Stop: 54050, Start Num: 5
Candidate Starts for Hangman_54:
(3, 54640), (Start: 5 @54625 has 16 MA's), (9, 54577), (12, 54547), (14, 54526), (15, 54514), (24, 54313), (25, 54301), (26, 54229), (27, 54211), (31, 54130), (33, 54061),

Gene: Heath_53 Start: 54251, Stop: 53661, Start Num: 5
Candidate Starts for Heath_53:
(3, 54266), (Start: 5 @54251 has 16 MA's), (9, 54203), (12, 54173), (14, 54152), (15, 54140), (23, 53939), (25, 53912), (26, 53840), (30, 53765), (31, 53741), (33, 53672),

Gene: Hydro_54 Start: 54620, Stop: 54042, Start Num: 6
Candidate Starts for Hydro_54:
(Start: 6 @54620 has 11 MA's), (9, 54584), (12, 54554), (14, 54533), (15, 54521), (23, 54320), (25, 54293), (26, 54221), (30, 54146), (31, 54122), (33, 54053),

Gene: JAMaL_54 Start: 54791, Stop: 54189, Start Num: 4
Candidate Starts for JAMaL_54:
(Start: 4 @54791 has 2 MA's), (8, 54752), (10, 54734), (11, 54716), (14, 54686), (16, 54656), (19, 54611), (22, 54551), (23, 54467), (26, 54368), (27, 54350), (30, 54293), (33, 54200),

Gene: JaguarMi_56 Start: 55675, Stop: 55100, Start Num: 5
Candidate Starts for JaguarMi_56:
(3, 55690), (Start: 5 @55675 has 16 MA's), (9, 55627), (12, 55597), (14, 55576), (15, 55564), (24, 55363), (25, 55351), (26, 55279), (30, 55204), (31, 55180), (33, 55111),

Gene: JoyceMaria_54 Start: 54505, Stop: 53930, Start Num: 5
Candidate Starts for JoyceMaria_54:
(3, 54520), (Start: 5 @54505 has 16 MA's), (9, 54457), (14, 54406), (15, 54394), (24, 54193), (25, 54181), (26, 54109), (27, 54091), (31, 54010), (33, 53941),

Gene: Lambano_53 Start: 53573, Stop: 52995, Start Num: 6
Candidate Starts for Lambano_53:
(Start: 6 @53573 has 11 MA's), (9, 53537), (12, 53507), (14, 53486), (15, 53474), (23, 53273), (25, 53246), (26, 53174), (30, 53099), (31, 53075), (33, 53006),

Gene: LittleDigger_53 Start: 53580, Stop: 53008, Start Num: 6
Candidate Starts for LittleDigger_53:
(1, 53943), (2, 53868), (Start: 6 @53580 has 11 MA's), (9, 53544), (12, 53514), (14, 53493), (15, 53481), (23, 53286), (25, 53259), (26, 53187), (30, 53112), (31, 53088), (33, 53019),

Gene: Lolalove_55 Start: 54603, Stop: 54013, Start Num: 6
Candidate Starts for Lolalove_55:
(Start: 6 @54603 has 11 MA's), (9, 54567), (12, 54537), (14, 54516), (15, 54504), (18, 54441), (23, 54303), (26, 54204), (29, 54129),

Gene: Magpie_53 Start: 54495, Stop: 53905, Start Num: 5
Candidate Starts for Magpie_53:
(3, 54510), (Start: 5 @54495 has 16 MA's), (9, 54447), (12, 54417), (14, 54396), (15, 54384), (23, 54183), (25, 54156), (26, 54084), (30, 54009), (31, 53985), (33, 53916),

Gene: Mithril_54 Start: 54577, Stop: 54002, Start Num: 5
Candidate Starts for Mithril_54:
(3, 54592), (Start: 5 @54577 has 16 MA's), (9, 54529), (12, 54499), (14, 54478), (15, 54466), (20, 54400), (21, 54394), (24, 54265), (25, 54253), (26, 54181), (30, 54106), (31, 54082), (33, 54013),

Gene: Mudslide_54 Start: 54844, Stop: 54260, Start Num: 5
Candidate Starts for Mudslide_54:
(3, 54859), (Start: 5 @54844 has 16 MA's), (9, 54796), (12, 54766), (14, 54745), (15, 54733), (24, 54523), (25, 54511), (26, 54439), (30, 54364), (31, 54340), (33, 54271),

Gene: Nanao_53 Start: 53563, Stop: 52985, Start Num: 6
Candidate Starts for Nanao_53:
(Start: 6 @53563 has 11 MA's), (9, 53527), (12, 53497), (14, 53476), (15, 53464), (23, 53263), (25, 53236), (26, 53164), (30, 53089), (31, 53065), (33, 52996),

Gene: Nigel_55 Start: 54169, Stop: 53585, Start Num: 6
Candidate Starts for Nigel_55:
(Start: 6 @54169 has 11 MA's), (9, 54133), (12, 54103), (14, 54082), (15, 54070), (17, 54031), (22, 53959), (23, 53875), (26, 53776), (28, 53746), (29, 53701), (32, 53656),

Gene: Poster_53 Start: 53564, Stop: 52986, Start Num: 6
Candidate Starts for Poster_53:
(Start: 6 @53564 has 11 MA's), (9, 53528), (12, 53498), (14, 53477), (15, 53465), (23, 53264), (25, 53237), (26, 53165), (30, 53090), (31, 53066), (33, 52997),

Gene: Prince_54 Start: 54757, Stop: 54167, Start Num: 5
Candidate Starts for Prince_54:
(3, 54772), (Start: 5 @54757 has 16 MA's), (9, 54709), (12, 54679), (14, 54658), (15, 54646), (23, 54445), (25, 54418), (26, 54346), (30, 54271), (31, 54247), (33, 54178),

Gene: QueenPie_52 Start: 54270, Stop: 53680, Start Num: 5
Candidate Starts for QueenPie_52:
(3, 54285), (Start: 5 @54270 has 16 MA's), (9, 54222), (10, 54216), (12, 54192), (14, 54171), (15, 54159), (23, 53958), (25, 53931), (26, 53859), (30, 53784), (31, 53760), (33, 53691),

Gene: RawrgerThat_55 Start: 54597, Stop: 54022, Start Num: 5
Candidate Starts for RawrgerThat_55:

(3, 54612), (Start: 5 @54597 has 16 MA's), (9, 54549), (12, 54519), (14, 54498), (15, 54486), (24, 54285), (25, 54273), (26, 54201), (31, 54102), (33, 54033),

Gene: Renkei_53 Start: 53574, Stop: 53002, Start Num: 6
Candidate Starts for Renkei_53:
(1, 53937), (2, 53862), (Start: 6 @53574 has 11 MA's), (9, 53538), (12, 53508), (14, 53487), (15, 53475), (23, 53280), (25, 53253), (26, 53181), (30, 53106), (31, 53082), (33, 53013),

Gene: Stinger_55 Start: 53491, Stop: 52907, Start Num: 6
Candidate Starts for Stinger_55:
(Start: 6 @53491 has 11 MA's), (9, 53455), (12, 53425), (13, 53416), (14, 53404), (15, 53392), (17, 53353), (23, 53197), (26, 53098), (28, 53068), (29, 53023), (32, 52978),

Gene: Vincenzo_57 Start: 55727, Stop: 55143, Start Num: 6
Candidate Starts for Vincenzo_57:
(Start: 6 @55727 has 11 MA's), (9, 55691), (12, 55661), (14, 55640), (15, 55628), (17, 55589), (22, 55517), (23, 55433), (26, 55334), (28, 55304), (29, 55259), (32, 55214), (33, 55154),

Gene: VioletZ_56 Start: 54661, Stop: 54086, Start Num: 5
Candidate Starts for VioletZ_56:
(3, 54676), (Start: 5 @54661 has 16 MA's), (9, 54613), (12, 54583), (14, 54562), (15, 54550), (25, 54337), (26, 54265), (27, 54247), (30, 54190), (31, 54166), (33, 54097),

Gene: Waleliano_54 Start: 54614, Stop: 54039, Start Num: 5
Candidate Starts for Waleliano_54:
(3, 54629), (Start: 5 @54614 has 16 MA's), (9, 54566), (14, 54515), (15, 54503), (24, 54302), (25, 54290), (26, 54218), (27, 54200), (31, 54119), (33, 54050),

Gene: Xincheng_55 Start: 55648, Stop: 55073, Start Num: 5
Candidate Starts for Xincheng_55:
(3, 55663), (Start: 5 @55648 has 16 MA's), (9, 55600), (12, 55570), (14, 55549), (15, 55537), (24, 55336), (25, 55324), (26, 55252), (30, 55177), (31, 55153), (33, 55084),

Gene: Zemanar_55 Start: 54446, Stop: 53871, Start Num: 5
Candidate Starts for Zemanar_55:
(3, 54461), (Start: 5 @54446 has 16 MA's), (9, 54398), (14, 54347), (15, 54335), (24, 54134), (25, 54122), (26, 54050), (27, 54032), (31, 53951),