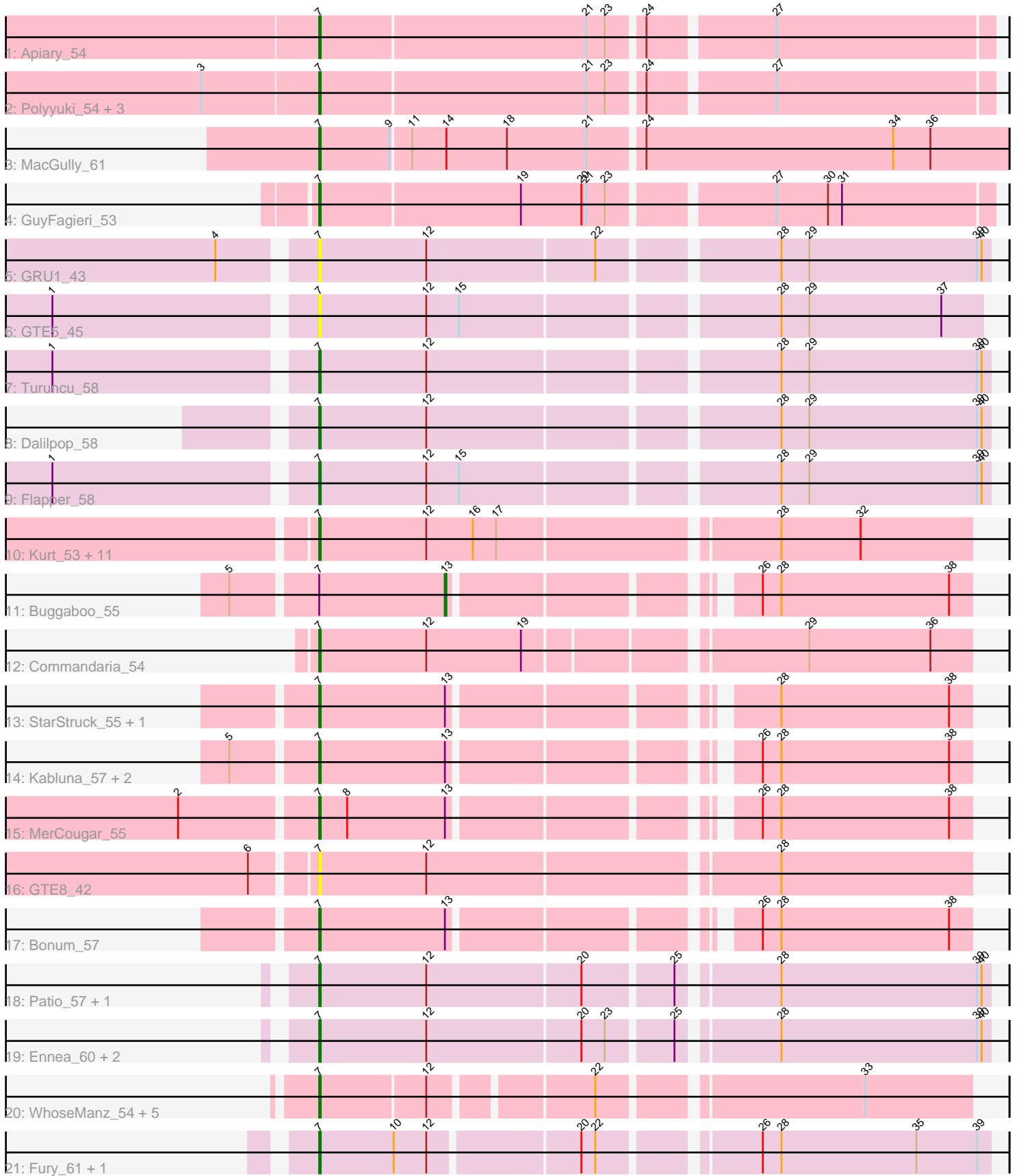


Pham 161943



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 161943 Report

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

Pham number 161943 has 47 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Apiary_54
- Track 2 : Polyuyki_54, Maselop_54, CoffeeBean_55, Braxoaddie_54
- Track 3 : MacGully_61
- Track 4 : GuyFagieri_53
- Track 5 : GRU1_43
- Track 6 : GTE5_45
- Track 7 : Turuncu_58
- Track 8 : Dalilpop_58
- Track 9 : Flapper_58
- Track 10 : Kurt_53, NatB6_53, GrootJr_55, Wheezy_53, KidneyBean_53, NovumRegina_53, Jifall16_52, Emianna_53, Tracker_53, Arti_53, Foxboro_54, Phomeo_52
- Track 11 : Buggaboo_55
- Track 12 : Commandaria_54
- Track 13 : StarStruck_55, Outis_55
- Track 14 : Kabluna_57, SuperSulley_55, NosilaM_57
- Track 15 : MerCougar_55
- Track 16 : GTE8_42
- Track 17 : Bonum_57
- Track 18 : Patio_57, Skysand_56
- Track 19 : Ennea_60, Lollipop1437_59, Float294_56
- Track 20 : WhoseManz_54, BiPauneto_55, NadineRae_53, IDyn_54, Marietta_55, HubbaBubba_51
- Track 21 : Fury_61, Pleakley_61

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

The start number called the most often in the published annotations is 7, it was called in 40 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Apiary_54, Arti_53, BiPauneto_55, Bonum_57, Braxoaddie_54, CoffeeBean_55, Commandaria_54, Dalilpop_58, Emianna_53, Ennea_60, Flapper_58, Float294_56, Foxboro_54, Fury_61, GRU1_43, GTE5_45, GTE8_42, GrootJr_55, GuyFagieri_53,

HubbaBubba_51, IDyn_54, Jifall16_52, Kabluna_57, KidneyBean_53, Kurt_53, Lollipop1437_59, MacGully_61, Marietta_55, Maselop_54, MerCougar_55, NadineRae_53, NatB6_53, NosilaM_57, NovumRegina_53, Outis_55, Patio_57, Phomeo_52, Pleakley_61, Polyuyuki_54, Skysand_56, StarStruck_55, SuperSulley_55, Tracker_53, Turuncu_58, Wheezy_53, WhoseManz_54,

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

- Buggaboo_55,

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

-

Summary by start number:

Start 7:

- Found in 47 of 47 (100.0%) of genes in pham
- Manual Annotations of this start: 40 of 41
- Called 97.9% of time when present
- Phage (with cluster) where this start called: Apiary_54 (CR), Arti_53 (CR2), BiPauneto_55 (CR4), Bonum_57 (CR2), Braxoaddie_54 (CR), CoffeeBean_55 (CR), Commandaria_54 (CR2), Dalilpop_58 (CR1), Emianna_53 (CR2), Ennea_60 (CR3), Flapper_58 (CR1), Float294_56 (CR3), Foxboro_54 (CR2), Fury_61 (CR5), GRU1_43 (CR1), GTE5_45 (CR1), GTE8_42 (CR2), GrootJr_55 (CR2), GuyFagieri_53 (CR), HubbaBubba_51 (CR4), IDyn_54 (CR4), Jifall16_52 (CR2), Kabluna_57 (CR2), KidneyBean_53 (CR2), Kurt_53 (CR2), Lollipop1437_59 (CR3), MacGully_61 (CR), Marietta_55 (CR4), Maselop_54 (CR), MerCougar_55 (CR2), NadineRae_53 (CR4), NatB6_53 (CR2), NosilaM_57 (CR2), NovumRegina_53 (CR2), Outis_55 (CR2), Patio_57 (CR3), Phomeo_52 (CR2), Pleakley_61 (CR5), Polyuyuki_54 (CR), Skysand_56 (CR3), StarStruck_55 (CR2), SuperSulley_55 (CR2), Tracker_53 (CR2), Turuncu_58 (CR1), Wheezy_53 (CR2), WhoseManz_54 (CR4),

Start 13:

- Found in 8 of 47 (17.0%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Buggaboo_55 (CR2),

Summary by clusters:

There are 6 clusters represented in this pham: CR2, CR3, CR1, CR4, CR5, CR,

Info for manual annotations of cluster CR:

- Start number 7 was manually annotated 6 times for cluster CR.

Info for manual annotations of cluster CR1:

- Start number 7 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 7 was manually annotated 19 times for cluster CR2.
- Start number 13 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 7 was manually annotated 5 times for cluster CR3.

Info for manual annotations of cluster CR4:

•Start number 7 was manually annotated 5 times for cluster CR4.

Info for manual annotations of cluster CR5:

•Start number 7 was manually annotated 2 times for cluster CR5.

Gene Information:

Gene: Apiary_54 Start: 40530, Stop: 40117, Start Num: 7

Candidate Starts for Apiary_54:

(Start: 7 @40530 has 40 MA's), (21, 40362), (23, 40350), (24, 40329), (27, 40254),

Gene: Arti_53 Start: 42546, Stop: 42142, Start Num: 7

Candidate Starts for Arti_53:

(Start: 7 @42546 has 40 MA's), (12, 42477), (16, 42447), (17, 42432), (28, 42264), (32, 42213),

Gene: BiPauneto_55 Start: 42058, Stop: 41675, Start Num: 7

Candidate Starts for BiPauneto_55:

(Start: 7 @42058 has 40 MA's), (12, 41992), (22, 41899), (33, 41743),

Gene: Bonum_57 Start: 43192, Stop: 42812, Start Num: 7

Candidate Starts for Bonum_57:

(Start: 7 @43192 has 40 MA's), (Start: 13 @43111 has 1 MA's), (26, 42946), (28, 42934), (38, 42826),

Gene: Braxoaddie_54 Start: 40519, Stop: 40106, Start Num: 7

Candidate Starts for Braxoaddie_54:

(3, 40591), (Start: 7 @40519 has 40 MA's), (21, 40351), (23, 40339), (24, 40318), (27, 40243),

Gene: Buggaboo_55 Start: 43590, Stop: 43291, Start Num: 13

Candidate Starts for Buggaboo_55:

(5, 43722), (Start: 7 @43671 has 40 MA's), (Start: 13 @43590 has 1 MA's), (26, 43425), (28, 43413), (38, 43305),

Gene: CoffeeBean_55 Start: 40477, Stop: 40064, Start Num: 7

Candidate Starts for CoffeeBean_55:

(3, 40549), (Start: 7 @40477 has 40 MA's), (21, 40309), (23, 40297), (24, 40276), (27, 40201),

Gene: Commandaria_54 Start: 43668, Stop: 43270, Start Num: 7

Candidate Starts for Commandaria_54:

(Start: 7 @43668 has 40 MA's), (12, 43599), (19, 43539), (29, 43374), (36, 43296),

Gene: Dalilpop_58 Start: 44838, Stop: 44425, Start Num: 7

Candidate Starts for Dalilpop_58:

(Start: 7 @44838 has 40 MA's), (12, 44769), (28, 44559), (29, 44541), (39, 44433), (40, 44430),

Gene: Emianna_53 Start: 43538, Stop: 43134, Start Num: 7

Candidate Starts for Emianna_53:

(Start: 7 @43538 has 40 MA's), (12, 43469), (16, 43439), (17, 43424), (28, 43256), (32, 43205),

Gene: Ennea_60 Start: 44554, Stop: 44144, Start Num: 7

Candidate Starts for Ennea_60:

(Start: 7 @44554 has 40 MA's), (12, 44485), (20, 44389), (23, 44374), (25, 44335), (28, 44278), (39, 44152), (40, 44149),

Gene: Flapper_58 Start: 44270, Stop: 43857, Start Num: 7

Candidate Starts for Flapper_58:

(1, 44429), (Start: 7 @44270 has 40 MA's), (12, 44201), (15, 44180), (28, 43991), (29, 43973), (39, 43865), (40, 43862),

Gene: Float294_56 Start: 43996, Stop: 43586, Start Num: 7

Candidate Starts for Float294_56:

(Start: 7 @43996 has 40 MA's), (12, 43927), (20, 43831), (23, 43816), (25, 43777), (28, 43720), (39, 43594), (40, 43591),

Gene: Foxboro_54 Start: 44044, Stop: 43640, Start Num: 7

Candidate Starts for Foxboro_54:

(Start: 7 @44044 has 40 MA's), (12, 43975), (16, 43945), (17, 43930), (28, 43762), (32, 43711),

Gene: Fury_61 Start: 42680, Stop: 42276, Start Num: 7

Candidate Starts for Fury_61:

(Start: 7 @42680 has 40 MA's), (10, 42632), (12, 42611), (20, 42521), (22, 42512), (26, 42422), (28, 42410), (35, 42323), (39, 42284),

Gene: GRU1_43 Start: 35816, Stop: 35403, Start Num: 7

Candidate Starts for GRU1_43:

(4, 35870), (Start: 7 @35816 has 40 MA's), (12, 35747), (22, 35642), (28, 35537), (29, 35519), (39, 35411), (40, 35408),

Gene: GTE5_45 Start: 37126, Stop: 36719, Start Num: 7

Candidate Starts for GTE5_45:

(1, 37285), (Start: 7 @37126 has 40 MA's), (12, 37057), (15, 37036), (28, 36847), (29, 36829), (37, 36745),

Gene: GTE8_42 Start: 36801, Stop: 36397, Start Num: 7

Candidate Starts for GTE8_42:

(6, 36837), (Start: 7 @36801 has 40 MA's), (12, 36732), (28, 36519),

Gene: GrootJr_55 Start: 42920, Stop: 42516, Start Num: 7

Candidate Starts for GrootJr_55:

(Start: 7 @42920 has 40 MA's), (12, 42851), (16, 42821), (17, 42806), (28, 42638), (32, 42587),

Gene: GuyFagieri_53 Start: 40714, Stop: 40301, Start Num: 7

Candidate Starts for GuyFagieri_53:

(Start: 7 @40714 has 40 MA's), (19, 40588), (20, 40549), (21, 40546), (23, 40534), (27, 40438), (30, 40405), (31, 40396),

Gene: HubbaBubba_51 Start: 39067, Stop: 38684, Start Num: 7

Candidate Starts for HubbaBubba_51:

(Start: 7 @39067 has 40 MA's), (12, 39001), (22, 38908), (33, 38752),

Gene: IDyn_54 Start: 40499, Stop: 40116, Start Num: 7

Candidate Starts for IDyn_54:

(Start: 7 @40499 has 40 MA's), (12, 40433), (22, 40340), (33, 40184),

Gene: Jifall16_52 Start: 43192, Stop: 42788, Start Num: 7

Candidate Starts for Jifall16_52:

(Start: 7 @43192 has 40 MA's), (12, 43123), (16, 43093), (17, 43078), (28, 42910), (32, 42859),

Gene: Kabluna_57 Start: 42607, Stop: 42227, Start Num: 7

Candidate Starts for Kabluna_57:

(5, 42658), (Start: 7 @42607 has 40 MA's), (Start: 13 @42526 has 1 MA's), (26, 42361), (28, 42349), (38, 42241),

Gene: KidneyBean_53 Start: 43316, Stop: 42912, Start Num: 7

Candidate Starts for KidneyBean_53:

(Start: 7 @43316 has 40 MA's), (12, 43247), (16, 43217), (17, 43202), (28, 43034), (32, 42983),

Gene: Kurt_53 Start: 43553, Stop: 43149, Start Num: 7

Candidate Starts for Kurt_53:

(Start: 7 @43553 has 40 MA's), (12, 43484), (16, 43454), (17, 43439), (28, 43271), (32, 43220),

Gene: Lollipop1437_59 Start: 44542, Stop: 44132, Start Num: 7

Candidate Starts for Lollipop1437_59:

(Start: 7 @44542 has 40 MA's), (12, 44473), (20, 44377), (23, 44362), (25, 44323), (28, 44266), (39, 44140), (40, 44137),

Gene: MacGully_61 Start: 42789, Stop: 42355, Start Num: 7

Candidate Starts for MacGully_61:

(Start: 7 @42789 has 40 MA's), (9, 42744), (11, 42732), (14, 42711), (18, 42672), (21, 42621), (24, 42588), (34, 42429), (36, 42405),

Gene: Marietta_55 Start: 40393, Stop: 40010, Start Num: 7

Candidate Starts for Marietta_55:

(Start: 7 @40393 has 40 MA's), (12, 40327), (22, 40234), (33, 40078),

Gene: Maselop_54 Start: 40553, Stop: 40140, Start Num: 7

Candidate Starts for Maselop_54:

(3, 40625), (Start: 7 @40553 has 40 MA's), (21, 40385), (23, 40373), (24, 40352), (27, 40277),

Gene: MerCougar_55 Start: 43808, Stop: 43428, Start Num: 7

Candidate Starts for MerCougar_55:

(2, 43892), (Start: 7 @43808 has 40 MA's), (8, 43790), (Start: 13 @43727 has 1 MA's), (26, 43562), (28, 43550), (38, 43442),

Gene: NadineRae_53 Start: 39637, Stop: 39254, Start Num: 7

Candidate Starts for NadineRae_53:

(Start: 7 @39637 has 40 MA's), (12, 39571), (22, 39478), (33, 39322),

Gene: NatB6_53 Start: 42610, Stop: 42206, Start Num: 7

Candidate Starts for NatB6_53:

(Start: 7 @42610 has 40 MA's), (12, 42541), (16, 42511), (17, 42496), (28, 42328), (32, 42277),

Gene: NosilaM_57 Start: 43505, Stop: 43125, Start Num: 7

Candidate Starts for NosilaM_57:

(5, 43556), (Start: 7 @43505 has 40 MA's), (Start: 13 @43424 has 1 MA's), (26, 43259), (28, 43247), (38, 43139),

Gene: NovumRegina_53 Start: 42919, Stop: 42515, Start Num: 7
Candidate Starts for NovumRegina_53:
(Start: 7 @42919 has 40 MA's), (12, 42850), (16, 42820), (17, 42805), (28, 42637), (32, 42586),

Gene: Outis_55 Start: 43502, Stop: 43122, Start Num: 7
Candidate Starts for Outis_55:
(Start: 7 @43502 has 40 MA's), (Start: 13 @43421 has 1 MA's), (28, 43244), (38, 43136),

Gene: Patio_57 Start: 43778, Stop: 43368, Start Num: 7
Candidate Starts for Patio_57:
(Start: 7 @43778 has 40 MA's), (12, 43709), (20, 43613), (25, 43559), (28, 43502), (39, 43376), (40, 43373),

Gene: Phomeo_52 Start: 43188, Stop: 42784, Start Num: 7
Candidate Starts for Phomeo_52:
(Start: 7 @43188 has 40 MA's), (12, 43119), (16, 43089), (17, 43074), (28, 42906), (32, 42855),

Gene: Pleakley_61 Start: 42681, Stop: 42277, Start Num: 7
Candidate Starts for Pleakley_61:
(Start: 7 @42681 has 40 MA's), (10, 42633), (12, 42612), (20, 42522), (22, 42513), (26, 42423), (28, 42411), (35, 42324), (39, 42285),

Gene: Polyzuki_54 Start: 40542, Stop: 40129, Start Num: 7
Candidate Starts for Polyzuki_54:
(3, 40614), (Start: 7 @40542 has 40 MA's), (21, 40374), (23, 40362), (24, 40341), (27, 40266),

Gene: Skysand_56 Start: 43998, Stop: 43588, Start Num: 7
Candidate Starts for Skysand_56:
(Start: 7 @43998 has 40 MA's), (12, 43929), (20, 43833), (25, 43779), (28, 43722), (39, 43596), (40, 43593),

Gene: StarStruck_55 Start: 43502, Stop: 43122, Start Num: 7
Candidate Starts for StarStruck_55:
(Start: 7 @43502 has 40 MA's), (Start: 13 @43421 has 1 MA's), (28, 43244), (38, 43136),

Gene: SuperSulley_55 Start: 43671, Stop: 43291, Start Num: 7
Candidate Starts for SuperSulley_55:
(5, 43722), (Start: 7 @43671 has 40 MA's), (Start: 13 @43590 has 1 MA's), (26, 43425), (28, 43413), (38, 43305),

Gene: Tracker_53 Start: 42334, Stop: 41930, Start Num: 7
Candidate Starts for Tracker_53:
(Start: 7 @42334 has 40 MA's), (12, 42265), (16, 42235), (17, 42220), (28, 42052), (32, 42001),

Gene: Turuncu_58 Start: 43932, Stop: 43519, Start Num: 7
Candidate Starts for Turuncu_58:
(1, 44091), (Start: 7 @43932 has 40 MA's), (12, 43863), (28, 43653), (29, 43635), (39, 43527), (40, 43524),

Gene: Wheezy_53 Start: 42542, Stop: 42138, Start Num: 7
Candidate Starts for Wheezy_53:
(Start: 7 @42542 has 40 MA's), (12, 42473), (16, 42443), (17, 42428), (28, 42260), (32, 42209),

Gene: WhoseManz_54 Start: 40006, Stop: 39623, Start Num: 7

Candidate Starts for WhoseManz_54:

(Start: 7 @40006 has 40 MA's), (12, 39940), (22, 39847), (33, 39691),