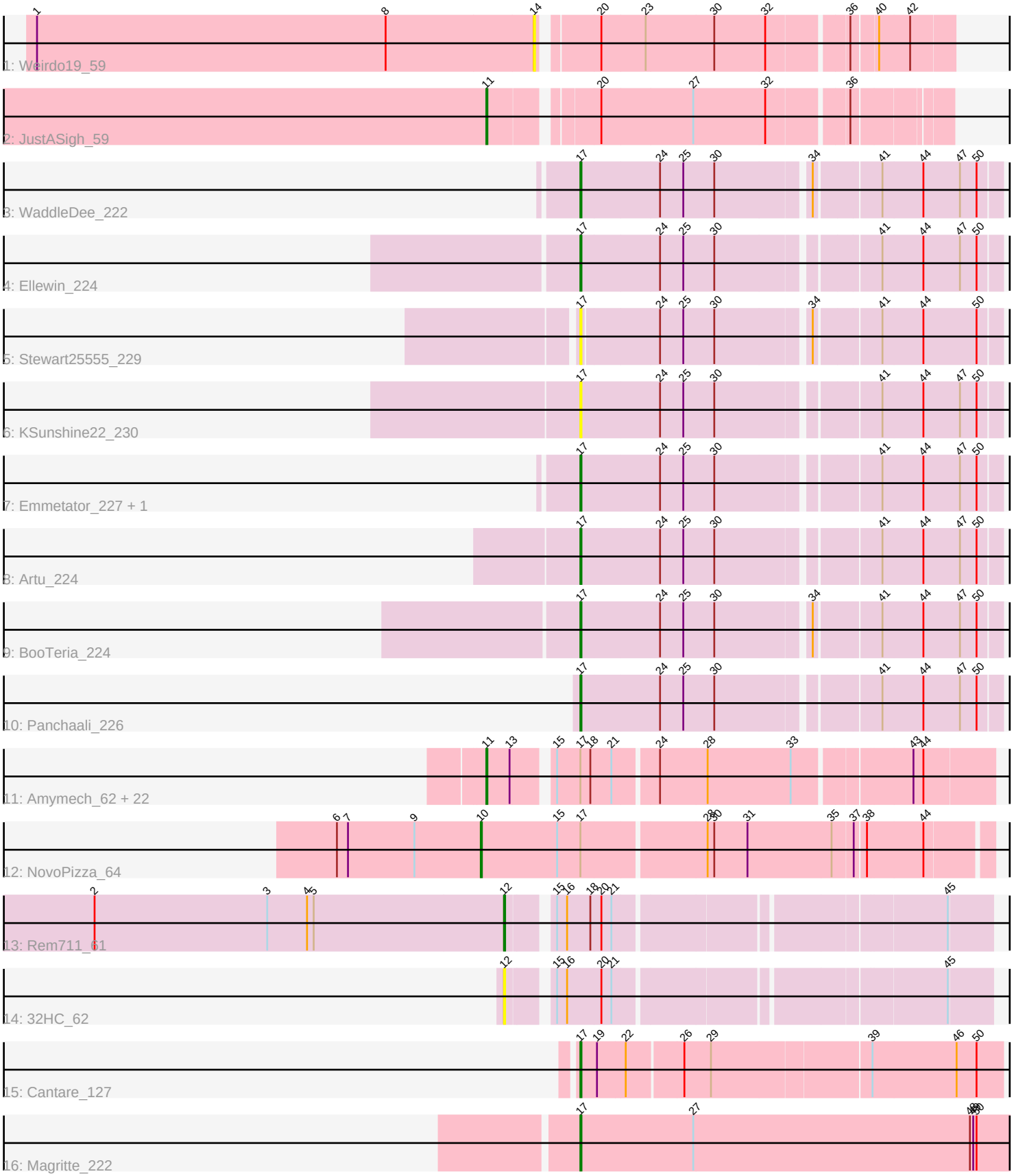
Pham 344183


1: Weirdo19_59
2: JustASigh_59
3: WaddleDee_222
4: Ellewin_224
5: Stewart25555_229
6: KSunshine22_230
7: Emmetator_227 + 1
8: Artu_224
9: BooTeria_224
10: Panchaali_226
11: Amymech_62 + 22
12: NovoPizza_64
13: Rem711_61
14: 32HC_62
15: Cantare_127
16: Magritte_222

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 344183 Report

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

Pham number 344183 has 39 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Weirdo19_59
• Track 2 : JustASigh_59
• Track 3 : WaddleDee_222
• Track 4 : Ellewin_224
• Track 5 : Stewart25555_229
• Track 6 : KSunshine22_230
• Track 7 : Emmetator_227, DunneganBoMo_226
• Track 8 : Artu_224
• Track 9 : BooTeria_224
• Track 10 : Panchaali_226
• Track 11 : Amymech_62, Ein37_62, OBUpride_62, Hail_59, Luke_61, Amochick_62, Daegal_64, Wishmaker_59, Giles_59, Ubuntu_62, Kinbote_61, Hadrien_61, Gravaillia_60, LilHazelnut_62, Forge_59, Dewey_59, BloominB_61, Evanesce_61, DeepSoil15_62, Gancho_61, HH92_61, Luna22_59, Webster2_62
• Track 12 : NovoPizza_64
• Track 13 : Rem711_61
• Track 14 : 32HC_62
• Track 15 : Cantare_127
• Track 16 : Magritte_222

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

The start number called the most often in the published annotations is 11, it was called in 24 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amochick_62, Amymech_62, BloominB_61, Daegal_64, DeepSoil15_62, Dewey_59, Ein37_62, Evanesce_61, Forge_59, Gancho_61, Giles_59, Gravaillia_60, HH92_61, Hadrien_61, Hail_59, JustASigh_59, Kinbote_61, LilHazelnut_62, Luke_61, Luna22_59, OBUpride_62, Ubuntu_62, Webster2_62, Wishmaker_59,

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

Genes that do not have the "Most Annotated" start:
• 32HC_62, Artu_224, BooTeria_224, Cantare_127, DunneganBoMo_226, Ellewin_224, Emmetator_227, KSunshine22_230, Magritte_222, NovoPizza_64, Panchaali_226, Rem711_61, Stewart25555_229, WaddleDee_222, Weirdo19_59,

Summary by start number:

Start 10:
• Found in 1 of 39 (2.6%) of genes in pham
• Manual Annotations of this start: 1 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NovoPizza_64 (Q),

Start 11:
• Found in 24 of 39 (61.5%) of genes in pham
• Manual Annotations of this start: 24 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amochick_62 (Q), Amymech_62 (Q), BloominB_61 (Q), Daegal_64 (Q), DeepSoil15_62 (Q), Dewey_59 (Q), Ein37_62 (Q), Evanesce_61 (Q), Forge_59 (Q), Gancho_61 (Q), Giles_59 (Q), Gravaillia_60 (Q), HH92_61 (Q), Hadrien_61 (Q), Hail_59 (Q), JustASigh_59 (AH), Kinbote_61 (Q), LilHazelnut_62 (Q), Luke_61 (Q), Luna22_59 (Q), OBUpride_62 (Q), Ubuntu_62 (Q), Webster2_62 (Q), Wishmaker_59 (Q),

Start 12:
• Found in 2 of 39 (5.1%) of genes in pham
• Manual Annotations of this start: 1 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 32HC_62 (Z), Rem711_61 (Z),

Start 14:
• Found in 1 of 39 (2.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Weirdo19_59 (AH),

Start 17:
• Found in 35 of 39 (89.7%) of genes in pham
• Manual Annotations of this start: 8 of 34
• Called 31.4% of time when present
• Phage (with cluster) where this start called: Artu_224 (FC), BooTeria_224 (FC), Cantare_127 (singleton), DunneganBoMo_226 (FC), Ellewin_224 (FC), Emmetator_227 (FC), KSunshine22_230 (FC), Magritte_222 (singleton), Panchaali_226 (FC), Stewart25555_229 (FC), WaddleDee_222 (FC),

Summary by clusters:

There are 5 clusters represented in this pham: Q, AH, singleton, FC, Z,

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

Info for manual annotations of cluster FC:

•Start number 17 was manually annotated 6 times for cluster FC.

Info for manual annotations of cluster Q:
•Start number 10 was manually annotated 1 time for cluster Q.
•Start number 11 was manually annotated 23 times for cluster Q.

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

Gene Information:

Gene: 32HC_62 Start: 40727, Stop: 41119, Start Num: 12
Candidate Starts for 32HC_62:
(Start: 12 @40727 has 1 MA's), (15, 40760), (16, 40769), (20, 40799), (21, 40808), (45, 41081),

Gene: Amochick_62 Start: 43234, Stop: 43653, Start Num: 11
Candidate Starts for Amochick_62:
(Start: 11 @43234 has 24 MA's), (13, 43255), (15, 43285), (Start: 17 @43306 has 8 MA's), (18, 43315), (21, 43333), (24, 43369), (28, 43411), (33, 43486), (43, 43582), (44, 43591),

Gene: Amymech_62 Start: 43212, Stop: 43631, Start Num: 11
Candidate Starts for Amymech_62:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),

Gene: Artu_224 Start: 156095, Stop: 156448, Start Num: 17
Candidate Starts for Artu_224:
(Start: 17 @156095 has 8 MA's), (24, 156164), (25, 156185), (30, 156212), (41, 156344), (44, 156380), (47, 156413), (50, 156428),

Gene: BloominB_61 Start: 43212, Stop: 43631, Start Num: 11
Candidate Starts for BloominB_61:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),

Gene: BooTeria_224 Start: 155925, Stop: 156278, Start Num: 17
Candidate Starts for BooTeria_224:
(Start: 17 @155925 has 8 MA's), (24, 155994), (25, 156015), (30, 156042), (34, 156120), (41, 156174), (44, 156210), (47, 156243), (50, 156258),

Gene: Cantare_127 Start: 88150, Stop: 88515, Start Num: 17
Candidate Starts for Cantare_127:
(Start: 17 @88150 has 8 MA's), (19, 88165), (22, 88189), (26, 88237), (29, 88261), (39, 88399), (46, 88474), (50, 88492),

Gene: Daegal_64 Start: 43796, Stop: 44215, Start Num: 11
Candidate Starts for Daegal_64:
(Start: 11 @43796 has 24 MA's), (13, 43817), (15, 43847), (Start: 17 @43868 has 8 MA's), (18, 43877), (21, 43895), (24, 43931), (28, 43973), (33, 44048), (43, 44144), (44, 44153),

Gene: DeepSoil15_62 Start: 43212, Stop: 43631, Start Num: 11

Candidate Starts for DeepSoil15_62:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),

Gene: Dewey_59 Start: 43212, Stop: 43631, Start Num: 11
Candidate Starts for Dewey_59:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),

Gene: DunneganBoMo_226 Start: 155428, Stop: 155781, Start Num: 17
Candidate Starts for DunneganBoMo_226:
(Start: 17 @155428 has 8 MA's), (24, 155497), (25, 155518), (30, 155545), (41, 155677), (44, 155713), (47, 155746), (50, 155761),

Gene: Ein37_62 Start: 43212, Stop: 43631, Start Num: 11
Candidate Starts for Ein37_62:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),

Gene: Ellewin_224 Start: 154702, Stop: 155055, Start Num: 17
Candidate Starts for Ellewin_224:
(Start: 17 @154702 has 8 MA's), (24, 154771), (25, 154792), (30, 154819), (41, 154951), (44, 154987), (47, 155020), (50, 155035),

Gene: Emmetator_227 Start: 154568, Stop: 154921, Start Num: 17
Candidate Starts for Emmetator_227:
(Start: 17 @154568 has 8 MA's), (24, 154637), (25, 154658), (30, 154685), (41, 154817), (44, 154853), (47, 154886), (50, 154901),

Gene: Evanesce_61 Start: 43212, Stop: 43631, Start Num: 11
Candidate Starts for Evanesce_61:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),

Gene: Forge_59 Start: 43212, Stop: 43631, Start Num: 11
Candidate Starts for Forge_59:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),

Gene: Gancho_61 Start: 42939, Stop: 43358, Start Num: 11
Candidate Starts for Gancho_61:
(Start: 11 @42939 has 24 MA's), (13, 42960), (15, 42990), (Start: 17 @43011 has 8 MA's), (18, 43020), (21, 43038), (24, 43074), (28, 43116), (33, 43191), (43, 43287), (44, 43296),

Gene: Giles_59 Start: 43212, Stop: 43631, Start Num: 11
Candidate Starts for Giles_59:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),

Gene: Gravaillia_60 Start: 43220, Stop: 43639, Start Num: 11
Candidate Starts for Gravaillia_60:
(Start: 11 @43220 has 24 MA's), (13, 43241), (15, 43271), (Start: 17 @43292 has 8 MA's), (18, 43301), (21, 43319), (24, 43355), (28, 43397), (33, 43472), (43, 43568), (44, 43577),

Gene: HH92_61 Start: 43212, Stop: 43631, Start Num: 11
Candidate Starts for HH92_61:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),

Gene: Hadrien_61 Start: 43212, Stop: 43631, Start Num: 11
Candidate Starts for Hadrien_61:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),

Gene: Hail_59 Start: 43212, Stop: 43631, Start Num: 11
Candidate Starts for Hail_59:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),

Gene: JustASigh_59 Start: 40937, Stop: 41311, Start Num: 11
Candidate Starts for JustASigh_59:
(Start: 11 @40937 has 24 MA's), (20, 41021), (27, 41102), (32, 41165), (36, 41231),

Gene: KSunshine22_230 Start: 154100, Stop: 154453, Start Num: 17
Candidate Starts for KSunshine22_230:
(Start: 17 @154100 has 8 MA's), (24, 154169), (25, 154190), (30, 154217), (41, 154349), (44, 154385), (47, 154418), (50, 154433),

Gene: Kinbote_61 Start: 43212, Stop: 43631, Start Num: 11
Candidate Starts for Kinbote_61:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),

Gene: LilHazelnut_62 Start: 43212, Stop: 43631, Start Num: 11
Candidate Starts for LilHazelnut_62:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),

Gene: Luke_61 Start: 43167, Stop: 43586, Start Num: 11
Candidate Starts for Luke_61:
(Start: 11 @43167 has 24 MA's), (13, 43188), (15, 43218), (Start: 17 @43239 has 8 MA's), (18, 43248), (21, 43266), (24, 43302), (28, 43344), (33, 43419), (43, 43515), (44, 43524),

Gene: Luna22_59 Start: 43196, Stop: 43615, Start Num: 11
Candidate Starts for Luna22_59:
(Start: 11 @43196 has 24 MA's), (13, 43217), (15, 43247), (Start: 17 @43268 has 8 MA's), (18, 43277), (21, 43295), (24, 43331), (28, 43373), (33, 43448), (43, 43544), (44, 43553),

Gene: Magritte_222 Start: 117575, Stop: 117985, Start Num: 17
Candidate Starts for Magritte_222:
(Start: 17 @117575 has 8 MA's), (27, 117677), (48, 117926), (49, 117929), (50, 117932),

Gene: NovoPizza_64 Start: 44510, Stop: 44947, Start Num: 10
Candidate Starts for NovoPizza_64:
(6, 44381), (7, 44390), (9, 44450), (Start: 10 @44510 has 1 MA's), (15, 44579), (Start: 17 @44600 has 8 MA's), (28, 44705), (30, 44711), (31, 44741), (35, 44816), (37, 44834), (38, 44843), (44, 44891),

Gene: OBUpride_62 Start: 43208, Stop: 43627, Start Num: 11
Candidate Starts for OBUpride_62:
(Start: 11 @43208 has 24 MA's), (13, 43229), (15, 43259), (Start: 17 @43280 has 8 MA's), (18, 43289), (21, 43307), (24, 43343), (28, 43385), (33, 43460), (43, 43556), (44, 43565),

Gene: Panchaali_226 Start: 156131, Stop: 156484, Start Num: 17
Candidate Starts for Panchaali_226:
(Start: 17 @156131 has 8 MA's), (24, 156200), (25, 156221), (30, 156248), (41, 156380), (44, 156416), (47, 156449), (50, 156464),

Gene: Rem711_61 Start: 40712, Stop: 41104, Start Num: 12
Candidate Starts for Rem711_61:
(2, 40343), (3, 40499), (4, 40535), (5, 40541), (Start: 12 @40712 has 1 MA's), (15, 40745), (16, 40754), (18, 40775), (20, 40784), (21, 40793), (45, 41066),

Gene: Stewart25555_229 Start: 154481, Stop: 154831, Start Num: 17
Candidate Starts for Stewart25555_229:
(Start: 17 @154481 has 8 MA's), (24, 154547), (25, 154568), (30, 154595), (34, 154673), (41, 154727), (44, 154763), (50, 154811),

Gene: Ubuntu_62 Start: 43212, Stop: 43631, Start Num: 11
Candidate Starts for Ubuntu_62:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),

Gene: WaddleDee_222 Start: 154253, Stop: 154606, Start Num: 17
Candidate Starts for WaddleDee_222:
(Start: 17 @154253 has 8 MA's), (24, 154322), (25, 154343), (30, 154370), (34, 154448), (41, 154502), (44, 154538), (47, 154571), (50, 154586),

Gene: Webster2_62 Start: 43212, Stop: 43631, Start Num: 11
Candidate Starts for Webster2_62:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),

Gene: Weirdo19_59 Start: 41212, Stop: 41553, Start Num: 14
Candidate Starts for Weirdo19_59:
(1, 40765), (8, 41080), (14, 41212), (20, 41257), (23, 41296), (30, 41356), (32, 41401), (36, 41467), (40, 41488), (42, 41515),

Gene: Wishmaker_59 Start: 43212, Stop: 43631, Start Num: 11
Candidate Starts for Wishmaker_59:
(Start: 11 @43212 has 24 MA's), (13, 43233), (15, 43263), (Start: 17 @43284 has 8 MA's), (18, 43293), (21, 43311), (24, 43347), (28, 43389), (33, 43464), (43, 43560), (44, 43569),