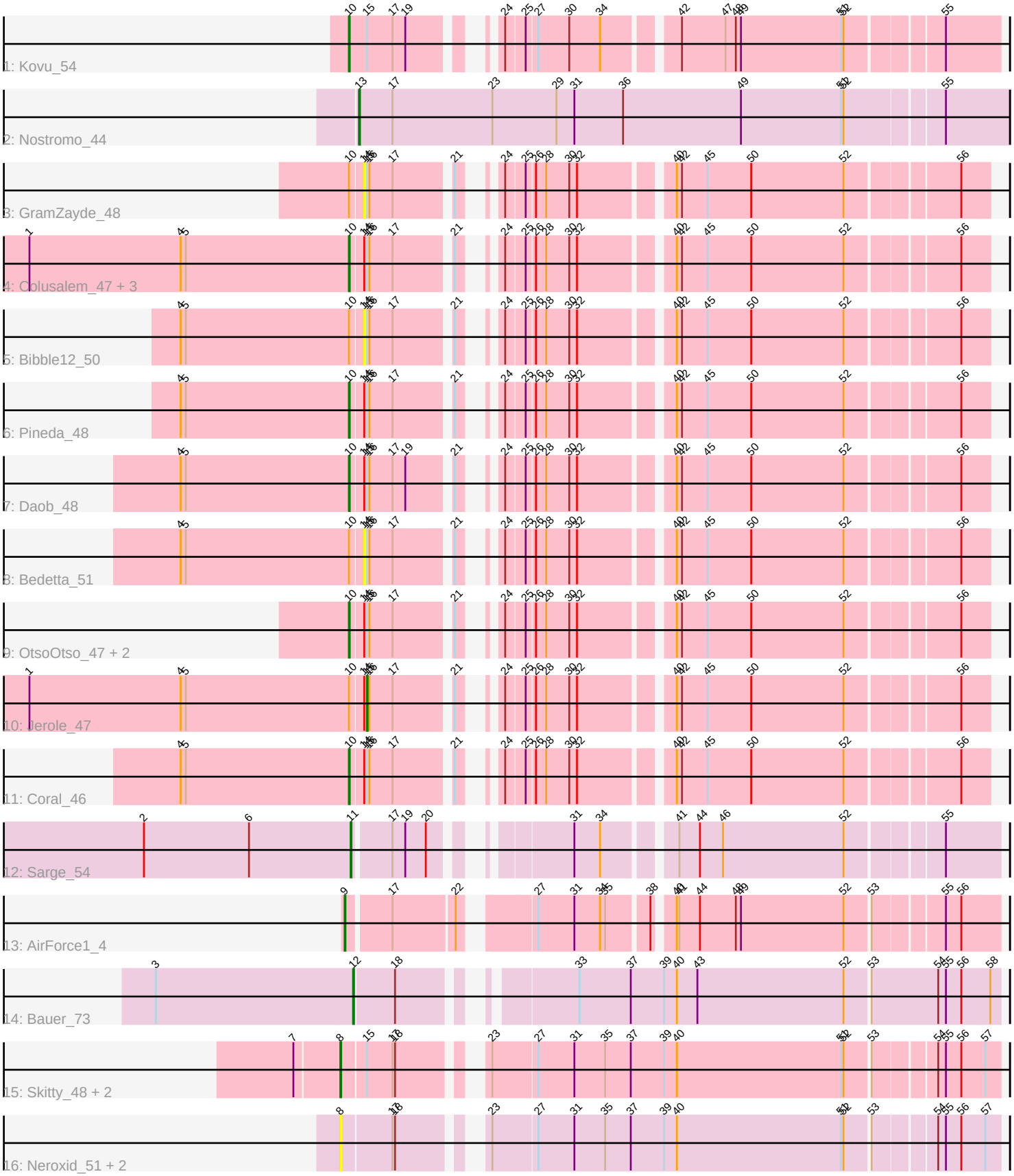
Pham 347969


1: Kovu_54
2: Nostromo_44
3: GramZayde_48
4: Colusalem_47 + 3
5: Bibble12_50
6: Pineda_48
7: Daob_48
8: Bedetta_51
9: OtsoOtso_47 + 2
10: Jerole_47
11: Coral_46
12: Sarge_54
13: AirForce1_4
14: Bauer_73
15: Skitty_48 + 2
16: Neroxid_51 + 2

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 347969 Report

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

Pham number 347969 has 25 members, 8 are drafts.

Phages represented in each track:
- Track 1 : Kovu_54
- Track 2 : Nostromo_44
- Track 3 : GramZayde_48
- Track 4 : Colusalem_47, Damocles_50, Amelia_46, HannahPhantana_47
- Track 5 : Bibble12_50
- Track 6 : Pineda_48
- Track 7 : Daob_48
- Track 8 : Bedetta_51
- Track 9 : OtsoOtso_47, Cote_48, Polka_46
- Track 10 : Jerole_47
- Track 11 : Coral_46
- Track 12 : Sarge_54
- Track 13 : AirForce1_4
- Track 14 : Bauer_73
- Track 15 : Skitty_48, Merpity_55, MrSmee_54
- Track 16 : Neroxid_51, Skyerus_46, Raya_51

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 10 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Amelia_46, Colusalem_47, Coral_46, Cote_48, Damocles_50, Daob_48, HannahPhantana_47, Kovu_54, OtsoOtso_47, Pineda_48, Polka_46,

Genes that have the "Most Annotated" start but do not call it:
- Bedetta_51, Bibble12_50, GramZayde_48, Jerole_47,

Genes that do not have the "Most Annotated" start:
- AirForce1_4, Bauer_73, Merpity_55, MrSmee_54, Neroxid_51, Nostromo_44, Raya_51, Sarge_54, Skitty_48, Skyerus_46,

Summary by start number:

Start 8:
• Found in 6 of 25 (24.0%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Merpity_55 (FQ1), MrSmee_54 (FQ1), Neroxid_51 (FQ2), Raya_51 (FQ2), Skitty_48 (FQ1), Skyerus_46 (FQ2),

Start 9:
• Found in 1 of 25 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AirForce1_4 (FL),

Start 10:
• Found in 15 of 25 (60.0%) of genes in pham
• Manual Annotations of this start: 10 of 17
• Called 73.3% of time when present
• Phage (with cluster) where this start called: Amelia_46 (AS2), Colusalem_47 (AS2), Coral_46 (AS2), Cote_48 (AS2), Damocles_50 (AS2), Daob_48 (AS2), HannahPhantana_47 (AS2), Kovu_54 (AL), OtsoOtso_47 (AS2), Pineda_48 (AS2), Polka_46 (AS2),

Start 11:
• Found in 1 of 25 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sarge_54 (FB),

Start 12:
• Found in 1 of 25 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bauer_73 (FN),

Start 13:
• Found in 1 of 25 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nostromo_44 (AO3),

Start 14:
• Found in 14 of 25 (56.0%) of genes in pham
• No Manual Annotations of this start.
• Called 21.4% of time when present
• Phage (with cluster) where this start called: Bedetta_51 (AS2), Bibble12_50 (AS2), GramZayde_48 (AS2),

Start 15:
• Found in 18 of 25 (72.0%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 5.6% of time when present
• Phage (with cluster) where this start called: Jerole_47 (AS2),

Summary by clusters:

There are 8 clusters represented in this pham: AS2, AL, FB, AO3, FQ2, FQ1, FL, FN,

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

Info for manual annotations of cluster AO3:
•Start number 13 was manually annotated 1 time for cluster AO3.

Info for manual annotations of cluster AS2:
•Start number 10 was manually annotated 9 times for cluster AS2.
•Start number 15 was manually annotated 1 time for cluster AS2.

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

Info for manual annotations of cluster FL:
•Start number 9 was manually annotated 1 time for cluster FL.

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

Info for manual annotations of cluster FQ1:
•Start number 8 was manually annotated 2 times for cluster FQ1.

Gene Information:

Gene: AirForce1_4 Start: 2243, Stop: 2926, Start Num: 9
Candidate Starts for AirForce1_4:
(Start: 9 @2243 has 1 MA's), (17, 2291), (22, 2360), (27, 2426), (31, 2468), (34, 2498), (35, 2504), (38, 2549), (40, 2567), (41, 2570), (44, 2594), (48, 2636), (49, 2642), (52, 2762), (53, 2789), (55, 2864), (56, 2882),

Gene: Amelia_46 Start: 29931, Stop: 30581, Start Num: 10
Candidate Starts for Amelia_46:
(1, 29559), (4, 29736), (5, 29742), (Start: 10 @29931 has 10 MA's), (14, 29946), (Start: 15 @29949 has 1 MA's), (16, 29952), (17, 29979), (21, 30039), (24, 30060), (25, 30081), (26, 30090), (28, 30102), (30, 30129), (32, 30138), (40, 30234), (42, 30240), (45, 30270), (50, 30321), (52, 30429), (56, 30549),

Gene: Bauer_73 Start: 40976, Stop: 41665, Start Num: 12
Candidate Starts for Bauer_73:
(3, 40748), (Start: 12 @40976 has 1 MA's), (18, 41021), (33, 41180), (37, 41240), (39, 41279), (40, 41294), (43, 41318), (52, 41489), (53, 41516), (54, 41594), (55, 41603), (56, 41621), (58, 41654),

Gene: Bedetta_51 Start: 30113, Stop: 30748, Start Num: 14
Candidate Starts for Bedetta_51:
(4, 29903), (5, 29909), (Start: 10 @30098 has 10 MA's), (14, 30113), (Start: 15 @30116 has 1 MA's), (16, 30119), (17, 30146), (21, 30206), (24, 30227), (25, 30248), (26, 30257), (28, 30269), (30, 30296),

(32, 30305), (40, 30401), (42, 30407), (45, 30437), (50, 30488), (52, 30596), (56, 30716),

Gene: Bibble12_50 Start: 29941, Stop: 30576, Start Num: 14
Candidate Starts for Bibble12_50:
(4, 29731), (5, 29737), (Start: 10 @29926 has 10 MA's), (14, 29941), (Start: 15 @29944 has 1 MA's), (16, 29947), (17, 29974), (21, 30034), (24, 30055), (25, 30076), (26, 30085), (28, 30097), (30, 30124), (32, 30133), (40, 30229), (42, 30235), (45, 30265), (50, 30316), (52, 30424), (56, 30544),

Gene: Colusalem_47 Start: 29908, Stop: 30558, Start Num: 10
Candidate Starts for Colusalem_47:
(1, 29536), (4, 29713), (5, 29719), (Start: 10 @29908 has 10 MA's), (14, 29923), (Start: 15 @29926 has 1 MA's), (16, 29929), (17, 29956), (21, 30016), (24, 30037), (25, 30058), (26, 30067), (28, 30079), (30, 30106), (32, 30115), (40, 30211), (42, 30217), (45, 30247), (50, 30298), (52, 30406), (56, 30526),

Gene: Coral_46 Start: 29799, Stop: 30449, Start Num: 10
Candidate Starts for Coral_46:
(4, 29604), (5, 29610), (Start: 10 @29799 has 10 MA's), (14, 29814), (Start: 15 @29817 has 1 MA's), (16, 29820), (17, 29847), (21, 29907), (24, 29928), (25, 29949), (26, 29958), (28, 29970), (30, 29997), (32, 30006), (40, 30102), (42, 30108), (45, 30138), (50, 30189), (52, 30297), (56, 30417),

Gene: Cote_48 Start: 30276, Stop: 30926, Start Num: 10
Candidate Starts for Cote_48:
(Start: 10 @30276 has 10 MA's), (14, 30291), (Start: 15 @30294 has 1 MA's), (16, 30297), (17, 30324), (21, 30384), (24, 30405), (25, 30426), (26, 30435), (28, 30447), (30, 30474), (32, 30483), (40, 30579), (42, 30585), (45, 30615), (50, 30666), (52, 30774), (56, 30894),

Gene: Damocles_50 Start: 30067, Stop: 30717, Start Num: 10
Candidate Starts for Damocles_50:
(1, 29695), (4, 29872), (5, 29878), (Start: 10 @30067 has 10 MA's), (14, 30082), (Start: 15 @30085 has 1 MA's), (16, 30088), (17, 30115), (21, 30175), (24, 30196), (25, 30217), (26, 30226), (28, 30238), (30, 30265), (32, 30274), (40, 30370), (42, 30376), (45, 30406), (50, 30457), (52, 30565), (56, 30685),

Gene: Daob_48 Start: 30284, Stop: 30934, Start Num: 10
Candidate Starts for Daob_48:
(4, 30089), (5, 30095), (Start: 10 @30284 has 10 MA's), (14, 30299), (Start: 15 @30302 has 1 MA's), (16, 30305), (17, 30332), (19, 30347), (21, 30392), (24, 30413), (25, 30434), (26, 30443), (28, 30455), (30, 30482), (32, 30491), (40, 30587), (42, 30593), (45, 30623), (50, 30674), (52, 30782), (56, 30902),

Gene: GramZayde_48 Start: 30127, Stop: 30762, Start Num: 14
Candidate Starts for GramZayde_48:
(Start: 10 @30112 has 10 MA's), (14, 30127), (Start: 15 @30130 has 1 MA's), (16, 30133), (17, 30160), (21, 30220), (24, 30241), (25, 30262), (26, 30271), (28, 30283), (30, 30310), (32, 30319), (40, 30415), (42, 30421), (45, 30451), (50, 30502), (52, 30610), (56, 30730),

Gene: HannahPhantana_47 Start: 29926, Stop: 30576, Start Num: 10
Candidate Starts for HannahPhantana_47:
(1, 29554), (4, 29731), (5, 29737), (Start: 10 @29926 has 10 MA's), (14, 29941), (Start: 15 @29944 has 1 MA's), (16, 29947), (17, 29974), (21, 30034), (24, 30055), (25, 30076), (26, 30085), (28, 30097), (30, 30124), (32, 30133), (40, 30229), (42, 30235), (45, 30265), (50, 30316), (52, 30424), (56, 30544),

Gene: Jerole_47 Start: 30068, Stop: 30700, Start Num: 15
Candidate Starts for Jerole_47:

(1, 29678), (4, 29855), (5, 29861), (Start: 10 @30050 has 10 MA's), (14, 30065), (Start: 15 @30068 has 1 MA's), (16, 30071), (17, 30098), (21, 30158), (24, 30179), (25, 30200), (26, 30209), (28, 30221), (30, 30248), (32, 30257), (40, 30353), (42, 30359), (45, 30389), (50, 30440), (52, 30548), (56, 30668),

Gene: Kovu_54 Start: 31604, Stop: 32269, Start Num: 10
Candidate Starts for Kovu_54:
(Start: 10 @31604 has 10 MA's), (Start: 15 @31625 has 1 MA's), (17, 31655), (19, 31670), (24, 31736), (25, 31757), (27, 31769), (30, 31805), (34, 31841), (42, 31916), (47, 31967), (48, 31979), (49, 31985), (51, 32102), (52, 32105), (55, 32207),

Gene: Merpity_55 Start: 31657, Stop: 32364, Start Num: 8
Candidate Starts for Merpity_55:
(7, 31609), (Start: 8 @31657 has 2 MA's), (Start: 15 @31684 has 1 MA's), (17, 31714), (18, 31717), (23, 31792), (27, 31843), (31, 31885), (35, 31921), (37, 31951), (39, 31990), (40, 32005), (51, 32197), (52, 32200), (53, 32227), (54, 32293), (55, 32302), (56, 32320), (57, 32347),

Gene: MrSmee_54 Start: 31631, Stop: 32338, Start Num: 8
Candidate Starts for MrSmee_54:
(7, 31583), (Start: 8 @31631 has 2 MA's), (Start: 15 @31658 has 1 MA's), (17, 31688), (18, 31691), (23, 31766), (27, 31817), (31, 31859), (35, 31895), (37, 31925), (39, 31964), (40, 31979), (51, 32171), (52, 32174), (53, 32201), (54, 32267), (55, 32276), (56, 32294), (57, 32321),

Gene: Neroxid_51 Start: 30393, Stop: 31100, Start Num: 8
Candidate Starts for Neroxid_51:
(Start: 8 @30393 has 2 MA's), (17, 30450), (18, 30453), (23, 30528), (27, 30579), (31, 30621), (35, 30657), (37, 30687), (39, 30726), (40, 30741), (51, 30933), (52, 30936), (53, 30963), (54, 31029), (55, 31038), (56, 31056), (57, 31083),

Gene: Nostromo_44 Start: 33725, Stop: 34474, Start Num: 13
Candidate Starts for Nostromo_44:
(Start: 13 @33725 has 1 MA's), (17, 33764), (23, 33881), (29, 33956), (31, 33977), (36, 34034), (49, 34172), (51, 34289), (52, 34292), (55, 34400),

Gene: OtsoOtso_47 Start: 29780, Stop: 30430, Start Num: 10
Candidate Starts for OtsoOtso_47:
(Start: 10 @29780 has 10 MA's), (14, 29795), (Start: 15 @29798 has 1 MA's), (16, 29801), (17, 29828), (21, 29888), (24, 29909), (25, 29930), (26, 29939), (28, 29951), (30, 29978), (32, 29987), (40, 30083), (42, 30089), (45, 30119), (50, 30170), (52, 30278), (56, 30398),

Gene: Pineda_48 Start: 30096, Stop: 30746, Start Num: 10
Candidate Starts for Pineda_48:
(4, 29901), (5, 29907), (Start: 10 @30096 has 10 MA's), (14, 30111), (Start: 15 @30114 has 1 MA's), (16, 30117), (17, 30144), (21, 30204), (24, 30225), (25, 30246), (26, 30255), (28, 30267), (30, 30294), (32, 30303), (40, 30399), (42, 30405), (45, 30435), (50, 30486), (52, 30594), (56, 30714),

Gene: Polka_46 Start: 29780, Stop: 30430, Start Num: 10
Candidate Starts for Polka_46:
(Start: 10 @29780 has 10 MA's), (14, 29795), (Start: 15 @29798 has 1 MA's), (16, 29801), (17, 29828), (21, 29888), (24, 29909), (25, 29930), (26, 29939), (28, 29951), (30, 29978), (32, 29987), (40, 30083), (42, 30089), (45, 30119), (50, 30170), (52, 30278), (56, 30398),

Gene: Raya_51 Start: 30393, Stop: 31100, Start Num: 8
Candidate Starts for Raya_51:

(Start: 8 @30393 has 2 MA's), (17, 30450), (18, 30453), (23, 30528), (27, 30579), (31, 30621), (35, 30657), (37, 30687), (39, 30726), (40, 30741), (51, 30933), (52, 30936), (53, 30963), (54, 31029), (55, 31038), (56, 31056), (57, 31083),

Gene: Sarge_54 Start: 30991, Stop: 31644, Start Num: 11
Candidate Starts for Sarge_54:
(2, 30751), (6, 30874), (Start: 11 @30991 has 1 MA's), (17, 31030), (19, 31045), (20, 31069), (31, 31186), (34, 31216), (41, 31288), (44, 31312), (46, 31339), (52, 31480), (55, 31582),

Gene: Skitty_48 Start: 29473, Stop: 30180, Start Num: 8
Candidate Starts for Skitty_48:
(7, 29425), (Start: 8 @29473 has 2 MA's), (Start: 15 @29500 has 1 MA's), (17, 29530), (18, 29533), (23, 29608), (27, 29659), (31, 29701), (35, 29737), (37, 29767), (39, 29806), (40, 29821), (51, 30013), (52, 30016), (53, 30043), (54, 30109), (55, 30118), (56, 30136), (57, 30163),

Gene: Skyerus_46 Start: 28511, Stop: 29218, Start Num: 8
Candidate Starts for Skyerus_46:
(Start: 8 @28511 has 2 MA's), (17, 28568), (18, 28571), (23, 28646), (27, 28697), (31, 28739), (35, 28775), (37, 28805), (39, 28844), (40, 28859), (51, 29051), (52, 29054), (53, 29081), (54, 29147), (55, 29156), (56, 29174), (57, 29201),