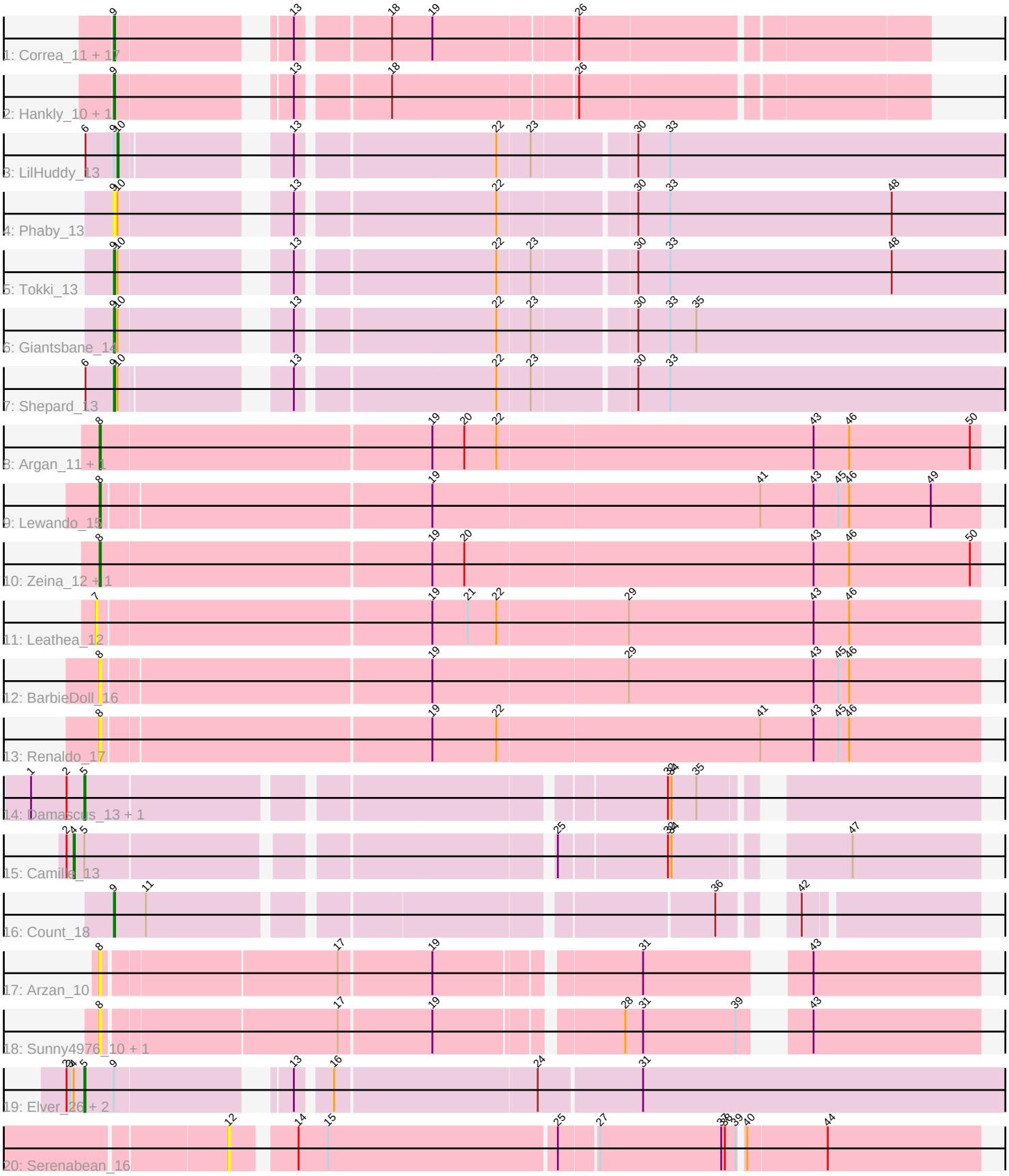
Pham 2636


1: Correa_11 + 17
2: Hankly_10 + 1
3: LilHuddy_13
4: Phaby_13
5: Tokki_13
6: Giantsbane_14
7: Shepard_13
8: Argan_11 + 1
9: Lewando_13
10: Zeina_12 + 1
11: Leathea_12
12: BarbieDoll_16
13: Renaldo_17
14: Damascus_13 + 1
15: Camille_13
16: Count_18
17: Arzan_10
18: Sunny4976_10 + 1
19: Elver_26 + 2
20: Serenabean_16

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 2636 Report

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

Pham number 2636 has 44 members, 11 are drafts.

Phages represented in each track:
• Track 1 : Correa_11, Kardesai_10, Mooshroom_10, Benllo_10, JEGGS_11, Dynamite_11, Nason_11, Mudcat_11, Circum_11, Heisenberger_11, KeaneyLin_10, Elsa_11, Tribby_11, GoCrazy_10, NapoleonB_11, Arcadia_11, Cheesy_11, Xenomorph_10
• Track 2 : Hankly_10, BenitoAntonio_11
• Track 3 : LilHuddy_13
• Track 4 : Phaby_13
• Track 5 : Tokki_13
• Track 6 : Giantsbane_14
• Track 7 : Shepard_13
• Track 8 : Argan_11, Uzumaki_12
• Track 9 : Lewando_15
• Track 10 : Zeina_12, GantcherGoblin_11
• Track 11 : Leathea_12
• Track 12 : BarbieDoll_16
• Track 13 : Renaldo_17
• Track 14 : Damascus_13, DizzyRudy_13
• Track 15 : Camille_13
• Track 16 : Count_18
• Track 17 : Arzan_10
• Track 18 : Sunny4976_10, Jazzy4900_11
• Track 19 : Elver_26, Qui_27, Paella_27
• Track 20 : Serenabean_16

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

The start number called the most often in the published annotations is 9, it was called in 22 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arcadia_11, BenitoAntonio_11, Benllo_10, Cheesy_11, Circum_11, Correa_11, Count_18, Dynamite_11, Elsa_11, Giantsbane_14, GoCrazy_10, Hankly_10, Heisenberger_11, JEGGS_11, Kardesai_10, KeaneyLin_10, Mooshroom_10, Mudcat_11, NapoleonB_11, Nason_11, Phaby_13, Shepard_13, Tokki_13,

Tribby_11, Xenomorph_10,

Genes that have the "Most Annotated" start but do not call it:
• Elver_26, LilHuddy_13, Paella_27, Qui_27,

Genes that do not have the "Most Annotated" start:
• Argan_11, Arzan_10, BarbieDoll_16, Camille_13, Damascus_13, DizzyRudy_13, GantcherGoblin_11, Jazzy4900_11, Leathea_12, Lewando_15, Renaldo_17, Serenabean_16, Sunny4976_10, Uzumaki_12, Zeina_12,

Summary by start number:

Start 4:
• Found in 4 of 44 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 33
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Camille_13 (EL),

Start 5:
• Found in 6 of 44 (13.6%) of genes in pham
• Manual Annotations of this start: 4 of 33
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Damascus_13 (EL), DizzyRudy_13 (EL), Elver_26 (FK), Paella_27 (FK), Qui_27 (FK),

Start 7:
• Found in 1 of 44 (2.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Leathea_12 (AU6),

Start 8:
• Found in 10 of 44 (22.7%) of genes in pham
• Manual Annotations of this start: 5 of 33
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Argan_11 (AU6), Arzan_10 (FI), BarbieDoll_16 (AU6), GantcherGoblin_11 (AU6), Jazzy4900_11 (FI), Lewando_15 (AU6), Renaldo_17 (AU6), Sunny4976_10 (FI), Uzumaki_12 (AU6), Zeina_12 (AU6),

Start 9:
• Found in 29 of 44 (65.9%) of genes in pham
• Manual Annotations of this start: 22 of 33
• Called 86.2% of time when present
• Phage (with cluster) where this start called: Arcadia_11 (AM), BenitoAntonio_11 (AM), Benllo_10 (AM), Cheesy_11 (AM), Circum_11 (AM), Correa_11 (AM), Count_18 (EL), Dynamite_11 (AM), Elsa_11 (AM), Giantsbane_14 (AU2), GoCrazy_10 (AM), Hankly_10 (AM), Heisenberger_11 (AM), JEGGS_11 (AM), Kardesai_10 (AM), KeaneyLin_10 (AM), Mooshroom_10 (AM), Mudcat_11 (AM), NapoleonB_11 (AM), Nason_11 (AM), Phaby_13 (AU2), Shepard_13 (AU2), Tokki_13 (AU2), Tribby_11 (AM), Xenomorph_10 (AM),

Start 10:
• Found in 5 of 44 (11.4%) of genes in pham

• Manual Annotations of this start: 1 of 33
• Called 20.0% of time when present
• Phage (with cluster) where this start called: LilHuddy_13 (AU2),

Start 12:
• Found in 1 of 44 (2.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Serenabean_16 (singleton),

Summary by clusters:

There are 7 clusters represented in this pham: EL, singleton, AM, AU2, AU6, FI, FK,

Info for manual annotations of cluster AM:
•Start number 9 was manually annotated 18 times for cluster AM.

Info for manual annotations of cluster AU2:
•Start number 9 was manually annotated 3 times for cluster AU2.
•Start number 10 was manually annotated 1 time for cluster AU2.

Info for manual annotations of cluster AU6:
•Start number 8 was manually annotated 5 times for cluster AU6.

Info for manual annotations of cluster EL:
•Start number 4 was manually annotated 1 time for cluster EL.
•Start number 5 was manually annotated 2 times for cluster EL.
•Start number 9 was manually annotated 1 time for cluster EL.

Info for manual annotations of cluster FK:
•Start number 5 was manually annotated 2 times for cluster FK.

Gene Information:

Gene: Arcadia_11 Start: 7831, Stop: 8442, Start Num: 9
Candidate Starts for Arcadia_11:
(Start: 9 @7831 has 22 MA's), (13, 7951), (18, 8020), (19, 8053), (26, 8167),

Gene: Argan_11 Start: 7698, Stop: 8429, Start Num: 8
Candidate Starts for Argan_11:
(Start: 8 @7698 has 5 MA's), (19, 7971), (20, 7998), (22, 8025), (43, 8289), (46, 8319), (50, 8421),

Gene: Arzan_10 Start: 6829, Stop: 7500, Start Num: 8
Candidate Starts for Arzan_10:
(Start: 8 @6829 has 5 MA's), (17, 7018), (19, 7093), (31, 7249), (43, 7360),

Gene: BarbieDoll_16 Start: 9649, Stop: 10374, Start Num: 8
Candidate Starts for BarbieDoll_16:
(Start: 8 @9649 has 5 MA's), (19, 9916), (29, 10078), (43, 10234), (45, 10255), (46, 10264),

Gene: BenitoAntonio_11 Start: 7439, Stop: 8050, Start Num: 9
Candidate Starts for BenitoAntonio_11:
(Start: 9 @7439 has 22 MA's), (13, 7559), (18, 7628), (26, 7775),

Gene: Benllo_10 Start: 7441, Stop: 8052, Start Num: 9
Candidate Starts for Benllo_10:
(Start: 9 @7441 has 22 MA's), (13, 7561), (18, 7630), (19, 7663), (26, 7777),

Gene: Camille_13 Start: 7538, Stop: 8218, Start Num: 4
Candidate Starts for Camille_13:
(2, 7532), (Start: 4 @7538 has 1 MA's), (Start: 5 @7547 has 4 MA's), (25, 7901), (32, 7988), (34, 7991), (47, 8111),

Gene: Cheesy_11 Start: 7441, Stop: 8052, Start Num: 9
Candidate Starts for Cheesy_11:
(Start: 9 @7441 has 22 MA's), (13, 7561), (18, 7630), (19, 7663), (26, 7777),

Gene: Circum_11 Start: 7441, Stop: 8052, Start Num: 9
Candidate Starts for Circum_11:
(Start: 9 @7441 has 22 MA's), (13, 7561), (18, 7630), (19, 7663), (26, 7777),

Gene: Correa_11 Start: 7441, Stop: 8052, Start Num: 9
Candidate Starts for Correa_11:
(Start: 9 @7441 has 22 MA's), (13, 7561), (18, 7630), (19, 7663), (26, 7777),

Gene: Count_18 Start: 10435, Stop: 11076, Start Num: 9
Candidate Starts for Count_18:
(Start: 9 @10435 has 22 MA's), (11, 10462), (36, 10894), (42, 10936),

Gene: Damascus_13 Start: 7411, Stop: 8085, Start Num: 5
Candidate Starts for Damascus_13:
(1, 7366), (2, 7396), (Start: 5 @7411 has 4 MA's), (32, 7855), (34, 7858), (35, 7879),

Gene: DizzyRudy_13 Start: 7409, Stop: 8083, Start Num: 5
Candidate Starts for DizzyRudy_13:
(1, 7364), (2, 7394), (Start: 5 @7409 has 4 MA's), (32, 7853), (34, 7856), (35, 7877),

Gene: Dynamite_11 Start: 7441, Stop: 8052, Start Num: 9
Candidate Starts for Dynamite_11:
(Start: 9 @7441 has 22 MA's), (13, 7561), (18, 7630), (19, 7663), (26, 7777),

Gene: Elsa_11 Start: 7831, Stop: 8442, Start Num: 9
Candidate Starts for Elsa_11:
(Start: 9 @7831 has 22 MA's), (13, 7951), (18, 8020), (19, 8053), (26, 8167),

Gene: Elver_26 Start: 17557, Stop: 18336, Start Num: 5
Candidate Starts for Elver_26:
(2, 17542), (3, 17545), (Start: 4 @17548 has 1 MA's), (Start: 5 @17557 has 4 MA's), (Start: 9 @17581 has 22 MA's), (13, 17701), (16, 17725), (24, 17890), (31, 17974),

Gene: GantcherGoblin_11 Start: 7698, Stop: 8429, Start Num: 8
Candidate Starts for GantcherGoblin_11:
(Start: 8 @7698 has 5 MA's), (19, 7971), (20, 7998), (43, 8289), (46, 8319), (50, 8421),

Gene: Giantsbane_14 Start: 9644, Stop: 10378, Start Num: 9
Candidate Starts for Giantsbane_14:
(Start: 9 @9644 has 22 MA's), (Start: 10 @9647 has 1 MA's), (13, 9767), (22, 9923), (23, 9950), (30, 10031), (33, 10058), (35, 10079),

Gene: GoCrazy_10 Start: 7441, Stop: 8052, Start Num: 9
Candidate Starts for GoCrazy_10:
(Start: 9 @7441 has 22 MA's), (13, 7561), (18, 7630), (19, 7663), (26, 7777),

Gene: Hankly_10 Start: 7465, Stop: 8076, Start Num: 9
Candidate Starts for Hankly_10:
(Start: 9 @7465 has 22 MA's), (13, 7585), (18, 7654), (26, 7801),

Gene: Heisenberger_11 Start: 7441, Stop: 8052, Start Num: 9
Candidate Starts for Heisenberger_11:
(Start: 9 @7441 has 22 MA's), (13, 7561), (18, 7630), (19, 7663), (26, 7777),

Gene: JEGGS_11 Start: 7443, Stop: 8054, Start Num: 9
Candidate Starts for JEGGS_11:
(Start: 9 @7443 has 22 MA's), (13, 7563), (18, 7632), (19, 7665), (26, 7779),

Gene: Jazzy4900_11 Start: 6848, Stop: 7519, Start Num: 8
Candidate Starts for Jazzy4900_11:
(Start: 8 @6848 has 5 MA's), (17, 7037), (19, 7112), (28, 7253), (31, 7268), (39, 7346), (43, 7379),

Gene: Kardesai_10 Start: 7441, Stop: 8052, Start Num: 9
Candidate Starts for Kardesai_10:
(Start: 9 @7441 has 22 MA's), (13, 7561), (18, 7630), (19, 7663), (26, 7777),

Gene: KeaneyLin_10 Start: 7441, Stop: 8052, Start Num: 9
Candidate Starts for KeaneyLin_10:
(Start: 9 @7441 has 22 MA's), (13, 7561), (18, 7630), (19, 7663), (26, 7777),

Gene: Leathea_12 Start: 7869, Stop: 8600, Start Num: 7
Candidate Starts for Leathea_12:
(7, 7869), (19, 8142), (21, 8172), (22, 8196), (29, 8304), (43, 8460), (46, 8490),

Gene: Lewando_15 Start: 9648, Stop: 10373, Start Num: 8
Candidate Starts for Lewando_15:
(Start: 8 @9648 has 5 MA's), (19, 9915), (41, 10188), (43, 10233), (45, 10254), (46, 10263), (49, 10332),

Gene: LilHuddy_13 Start: 9111, Stop: 9839, Start Num: 10
Candidate Starts for LilHuddy_13:
(6, 9084), (Start: 9 @9108 has 22 MA's), (Start: 10 @9111 has 1 MA's), (13, 9228), (22, 9384), (23, 9411), (30, 9492), (33, 9519),

Gene: Mooshroom_10 Start: 7441, Stop: 8052, Start Num: 9
Candidate Starts for Mooshroom_10:
(Start: 9 @7441 has 22 MA's), (13, 7561), (18, 7630), (19, 7663), (26, 7777),

Gene: Mudcat_11 Start: 7442, Stop: 8053, Start Num: 9

Candidate Starts for Mudcat_11:
(Start: 9 @7442 has 22 MA's), (13, 7562), (18, 7631), (19, 7664), (26, 7778),

Gene: NapoleonB_11 Start: 7441, Stop: 8052, Start Num: 9
Candidate Starts for NapoleonB_11:
(Start: 9 @7441 has 22 MA's), (13, 7561), (18, 7630), (19, 7663), (26, 7777),

Gene: Nason_11 Start: 7831, Stop: 8442, Start Num: 9
Candidate Starts for Nason_11:
(Start: 9 @7831 has 22 MA's), (13, 7951), (18, 8020), (19, 8053), (26, 8167),

Gene: Paella_27 Start: 17559, Stop: 18338, Start Num: 5
Candidate Starts for Paella_27:
(2, 17544), (3, 17547), (Start: 4 @17550 has 1 MA's), (Start: 5 @17559 has 4 MA's), (Start: 9 @17583 has 22 MA's), (13, 17703), (16, 17727), (24, 17892), (31, 17976),

Gene: Phaby_13 Start: 9097, Stop: 9831, Start Num: 9
Candidate Starts for Phaby_13:
(Start: 9 @9097 has 22 MA's), (Start: 10 @9100 has 1 MA's), (13, 9220), (22, 9376), (30, 9484), (33, 9511), (48, 9697),

Gene: Qui_27 Start: 17559, Stop: 18338, Start Num: 5
Candidate Starts for Qui_27:
(2, 17544), (3, 17547), (Start: 4 @17550 has 1 MA's), (Start: 5 @17559 has 4 MA's), (Start: 9 @17583 has 22 MA's), (13, 17703), (16, 17727), (24, 17892), (31, 17976),

Gene: Renaldo_17 Start: 9649, Stop: 10374, Start Num: 8
Candidate Starts for Renaldo_17:
(Start: 8 @9649 has 5 MA's), (19, 9916), (22, 9970), (41, 10189), (43, 10234), (45, 10255), (46, 10264),

Gene: Serenabean_16 Start: 11846, Stop: 12445, Start Num: 12
Candidate Starts for Serenabean_16:
(12, 11846), (14, 11891), (15, 11915), (25, 12104), (27, 12134), (37, 12236), (38, 12239), (39, 12248), (40, 12251), (44, 12317),

Gene: Shepard_13 Start: 9105, Stop: 9836, Start Num: 9
Candidate Starts for Shepard_13:
(6, 9081), (Start: 9 @9105 has 22 MA's), (Start: 10 @9108 has 1 MA's), (13, 9225), (22, 9381), (23, 9408), (30, 9489), (33, 9516),

Gene: Sunny4976_10 Start: 6848, Stop: 7519, Start Num: 8
Candidate Starts for Sunny4976_10:
(Start: 8 @6848 has 5 MA's), (17, 7037), (19, 7112), (28, 7253), (31, 7268), (39, 7346), (43, 7379),

Gene: Tokki_13 Start: 9144, Stop: 9878, Start Num: 9
Candidate Starts for Tokki_13:
(Start: 9 @9144 has 22 MA's), (Start: 10 @9147 has 1 MA's), (13, 9267), (22, 9423), (23, 9450), (30, 9531), (33, 9558), (48, 9744),

Gene: Tribby_11 Start: 7441, Stop: 8052, Start Num: 9
Candidate Starts for Tribby_11:
(Start: 9 @7441 has 22 MA's), (13, 7561), (18, 7630), (19, 7663), (26, 7777),

Gene: Uzumaki_12 Start: 7981, Stop: 8712, Start Num: 8
Candidate Starts for Uzumaki_12:
(Start: 8 @7981 has 5 MA's), (19, 8254), (20, 8281), (22, 8308), (43, 8572), (46, 8602), (50, 8704),

Gene: Xenomorph_10 Start: 7441, Stop: 8052, Start Num: 9
Candidate Starts for Xenomorph_10:
(Start: 9 @7441 has 22 MA's), (13, 7561), (18, 7630), (19, 7663), (26, 7777),

Gene: Zeina_12 Start: 7991, Stop: 8722, Start Num: 8
Candidate Starts for Zeina_12:
(Start: 8 @7991 has 5 MA's), (19, 8264), (20, 8291), (43, 8582), (46, 8612), (50, 8714),