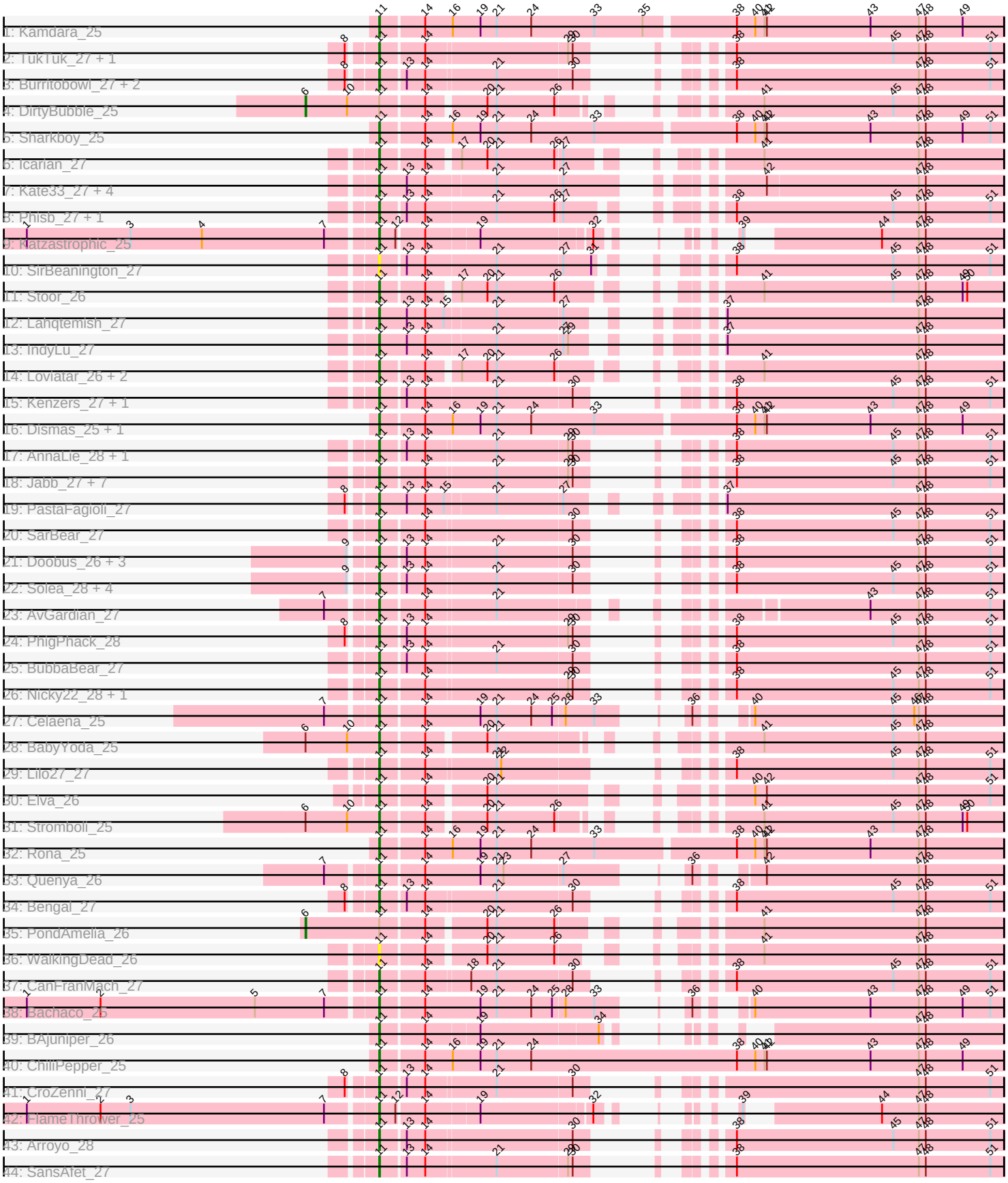
Pham 347567


1: Kamdara_25
2: TukTuk_27 + 1
3: Burritobowl_27 + 2
4: DirtyBubble_25
5: Sharkboy_25
6: Icarian_27
7: Kate33_27 + 4
8: Phisb_27 + 1
9: Katzastrophic_25
10: SirBeanington_27
11: Stoor_26
12: Lahqtemish_27
13: IndyLu_27
14: Loviatar_26 + 2
15: Kenzers_27 + 1
16: Dismas_25 + 1
17: AnnaLie_28 + 1
18: Jabb_27 + 7
19: PastaFagioli_27
20: SarBear_27
21: Doobus_26 + 3
22: Solea_28 + 4
23: AvGardian_27
24: PhigPhack_28
25: BubbaBear_27
26: Nicky22_28 + 1
27: Celaena_25
28: BabyYoda_25
29: Lilo27_27
30: Elva_26
31: Stromboli_25
32: Rona_25
33: Quenya_26
34: Bengal_27
35: PondAmelia_26
36: WalkingDead_26
37: CanFranMach_27
38: Bachaco_25
39: BAjuniper_26
40: ChiliPepper_25
41: CroZenni_27
42: FlameThrower_25
43: Arroyo_28
44: SansAfet_27

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 347567 Report

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

Pham number 347567 has 72 members, 4 are drafts.

Phages represented in each track:
- Track 1 : Kamdara_25
- Track 2 : TukTuk_27, Jovita_27
- Track 3 : Burritobowl_27, DickRichards_27, Softsoap_26
- Track 4 : DirtyBubble_25
- Track 5 : Sharkboy_25
- Track 6 : Icarian_27
- Track 7 : Kate33_27, Finalfrontier_28, BabyDaisy_28, Grist_28, Didgeridoo_29
- Track 8 : Phisb_27, Albedo_27
- Track 9 : Katzastrophic_25
- Track 10 : SirBeanington_27
- Track 11 : Stoor_26
- Track 12 : Lahqtemish_27
- Track 13 : IndyLu_27
- Track 14 : Loviatar_26, Akino08_25, SanaSana_27
- Track 15 : Kenzers_27, Lynlen_27
- Track 16 : Dismas_25, Kieran_25
- Track 17 : AnnaLie_28, BelmontSKP_28
- Track 18 : Jabb_27, CupcakePrincess_27, Pecas_27, Swervy_27, QMacho_28, MsUbiquitous_27, Eula_27, AylexOG_28
- Track 19 : PastaFagioli_27
- Track 20 : SarBear_27
- Track 21 : Doobus_26, Abigail_26, LimaBean_26, Albright_26
- Track 22 : Solea_28, Cashington_26, Avocadoman_26, Johnathan_26, Milomuff_27
- Track 23 : AvGardian_27
- Track 24 : PhigPhack_28
- Track 25 : BubbaBear_27
- Track 26 : Nicky22_28, Slay_27
- Track 27 : Celaena_25
- Track 28 : BabyYoda_25
- Track 29 : Lilo27_27
- Track 30 : Elva_26
- Track 31 : Stromboli_25
- Track 32 : Rona_25
- Track 33 : Quenya_26
- Track 34 : Bengal_27
- Track 35 : PondAmelia_26
- Track 36 : WalkingDead_26

• Track 37 : CanFranMach_27
• Track 38 : Bachaco_25
• Track 39 : BAjuniper_26
• Track 40 : ChiliPepper_25
• Track 41 : CroZenni_27
• Track 42 : FlameThrower_25
• Track 43 : Arroyo_28
• Track 44 : SansAfet_27

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 66 of the 68 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abigail_26, Akino08_25, Albedo_27, Albright_26, AnnaLie_28, Arroyo_28, AvGardian_27, Avocadoman_26, AylexOG_28, BAjuniper_26, BabyDaisy_28, BabyYoda_25, Bachaco_25, BelmontSKP_28, Bengal_27, BubbaBear_27, Burritobowl_27, CanFranMach_27, Cashington_26, Celaena_25, ChiliPepper_25, CroZenni_27, CupcakePrincess_27, DickRichards_27, Didgeridoo_29, Dismas_25, Doobus_26, Elva_26, Eula_27, Finalfrontier_28, FlameThrower_25, Grist_28, Icarian_27, IndyLu_27, Jabb_27, Johnathan_26, Jovita_27, Kamdara_25, Kate33_27, Katzastrophic_25, Kenzers_27, Kieran_25, Lahqtemish_27, Lilo27_27, LimaBean_26, Loviatar_26, Lynlen_27, Milomuff_27, MsUbiquitous_27, Nicky22_28, PastaFagioli_27, Pecas_27, PhigPhack_28, Phisb_27, QMacho_28, Quenya_26, Rona_25, SanaSana_27, SansAfet_27, SarBear_27, Sharkboy_25, SirBeanington_27, Slay_27, Softsoap_26, Solea_28, Stoor_26, Stromboli_25, Swervy_27, TukTuk_27, WalkingDead_26,

Genes that have the "Most Annotated" start but do not call it:
• DirtyBubble_25, PondAmelia_26,

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

Summary by start number:

Start 6:
• Found in 4 of 72 (5.6%) of genes in pham
• Manual Annotations of this start: 2 of 68
• Called 50.0% of time when present
• Phage (with cluster) where this start called: DirtyBubble_25 (EB), PondAmelia_26 (EB),

Start 11:
• Found in 72 of 72 (100.0%) of genes in pham
• Manual Annotations of this start: 66 of 68
• Called 97.2% of time when present
• Phage (with cluster) where this start called: Abigail_26 (EB), Akino08_25 (EB), Albedo_27 (EB), Albright_26 (EB), AnnaLie_28 (EB), Arroyo_28 (EB), AvGardian_27

(EB), Avocadoman_26 (EB), AylexOG_28 (EB), BAjuniper_26 (EB), BabyDaisy_28 (EB), BabyYoda_25 (EB), Bachaco_25 (EB), BelmontSKP_28 (EB), Bengal_27 (EB), BubbaBear_27 (EB), Burritobowl_27 (EB), CanFranMach_27 (EB), Cashington_26 (EB), Celaena_25 (EB), ChiliPepper_25 (EB), CroZenni_27 (EB), CupcakePrincess_27 (EB), DickRichards_27 (EB), Didgeridoo_29 (EB), Dismas_25 (EB), Doobus_26 (EB), Elva_26 (EB), Eula_27 (EB), Finalfrontier_28 (EB), FlameThrower_25 (EB), Grist_28 (EB), Icarian_27 (EB), IndyLu_27 (EB), Jabb_27 (EB), Johnathan_26 (EB), Jovita_27 (EB), Kamdara_25 (EB), Kate33_27 (EB), Katzastrophic_25 (EB), Kenzers_27 (EB), Kieran_25 (EB), Lahqtemish_27 (EB), Lilo27_27 (EB), LimaBean_26 (EB), Loviatar_26 (EB), Lynlen_27 (EB), Milomuff_27 (EB), MsUbiquitous_27 (EB), Nicky22_28 (EB), PastaFagioli_27 (EB), Pecas_27 (EB), PhigPhack_28 (EB), Phisb_27 (EB), QMacho_28 (EB), Quenya_26 (EB), Rona_25 (EB), SanaSana_27 (EB), SansAfet_27 (EB), SarBear_27 (EB), Sharkboy_25 (EB), SirBeanington_27 (EB), Slay_27 (EB), Softsoap_26 (EB), Solea_28 (EB), Stoor_26 (EB), Stromboli_25 (EB), Swervy_27 (EB), TukTuk_27 (EB), WalkingDead_26 (EB),

Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:
•Start number 6 was manually annotated 2 times for cluster EB.
•Start number 11 was manually annotated 66 times for cluster EB.

Gene Information:

Gene: Abigail_26 Start: 20228, Stop: 20884, Start Num: 11
Candidate Starts for Abigail_26:
(9, 20198), (Start: 11 @20228 has 66 MA's), (13, 20258), (14, 20282), (21, 20369), (30, 20465), (38, 20537), (47, 20774), (48, 20783), (51, 20867),

Gene: Akino08_25 Start: 21321, Stop: 22001, Start Num: 11
Candidate Starts for Akino08_25:
(Start: 11 @21321 has 66 MA's), (14, 21375), (17, 21411), (20, 21444), (21, 21456), (26, 21531), (41, 21690), (47, 21891), (48, 21900),

Gene: Albedo_27 Start: 20666, Stop: 21349, Start Num: 11
Candidate Starts for Albedo_27:
(Start: 11 @20666 has 66 MA's), (13, 20696), (14, 20720), (21, 20810), (26, 20885), (27, 20894), (38, 21002), (45, 21206), (47, 21239), (48, 21248), (51, 21332),

Gene: Albright_26 Start: 19986, Stop: 20642, Start Num: 11
Candidate Starts for Albright_26:
(9, 19956), (Start: 11 @19986 has 66 MA's), (13, 20016), (14, 20040), (21, 20127), (30, 20223), (38, 20295), (47, 20532), (48, 20541), (51, 20625),

Gene: AnnaLie_28 Start: 20976, Stop: 21632, Start Num: 11
Candidate Starts for AnnaLie_28:
(Start: 11 @20976 has 66 MA's), (13, 21006), (14, 21030), (21, 21117), (29, 21207), (30, 21213), (38, 21285), (45, 21489), (47, 21522), (48, 21531), (51, 21615),

Gene: Arroyo_28 Start: 21175, Stop: 21831, Start Num: 11
Candidate Starts for Arroyo_28:
(Start: 11 @21175 has 66 MA's), (13, 21205), (14, 21229), (30, 21412), (38, 21484), (45, 21688), (47, 21721), (48, 21730), (51, 21814),

Gene: AvGardian_27 Start: 20903, Stop: 21559, Start Num: 11
Candidate Starts for AvGardian_27:
(7, 20846), (Start: 11 @20903 has 66 MA's), (14, 20957), (21, 21044), (43, 21386), (47, 21449), (48, 21458), (51, 21542),

Gene: Avocadoman_26 Start: 20170, Stop: 20826, Start Num: 11
Candidate Starts for Avocadoman_26:
(9, 20140), (Start: 11 @20170 has 66 MA's), (13, 20200), (14, 20224), (21, 20311), (30, 20407), (38, 20479), (45, 20683), (47, 20716), (48, 20725), (51, 20809),

Gene: AylexOG_28 Start: 21004, Stop: 21660, Start Num: 11
Candidate Starts for AylexOG_28:
(Start: 11 @21004 has 66 MA's), (14, 21058), (21, 21145), (29, 21235), (30, 21241), (38, 21313), (45, 21517), (47, 21550), (48, 21559), (51, 21643),

Gene: BAjuniper_26 Start: 21519, Stop: 22130, Start Num: 11
Candidate Starts for BAjuniper_26:
(Start: 11 @21519 has 66 MA's), (14, 21573), (19, 21639), (34, 21786), (47, 22020), (48, 22029),

Gene: BabyDaisy_28 Start: 20806, Stop: 21519, Start Num: 11
Candidate Starts for BabyDaisy_28:
(Start: 11 @20806 has 66 MA's), (13, 20842), (14, 20866), (21, 20953), (27, 21037), (42, 21214), (47, 21409), (48, 21418),

Gene: BabyYoda_25 Start: 20833, Stop: 21492, Start Num: 11
Candidate Starts for BabyYoda_25:
(Start: 6 @20737 has 2 MA's), (10, 20791), (Start: 11 @20833 has 66 MA's), (14, 20887), (20, 20956), (21, 20968), (41, 21181), (45, 21349), (47, 21382), (48, 21391),

Gene: Bachaco_25 Start: 21471, Stop: 22142, Start Num: 11
Candidate Starts for Bachaco_25:
(1, 21024), (2, 21120), (5, 21321), (7, 21411), (Start: 11 @21471 has 66 MA's), (14, 21525), (19, 21597), (21, 21618), (24, 21663), (25, 21690), (28, 21705), (33, 21741), (36, 21783), (40, 21819), (43, 21969), (47, 22032), (48, 22041), (49, 22089), (51, 22125),

Gene: BelmontSKP_28 Start: 20976, Stop: 21632, Start Num: 11
Candidate Starts for BelmontSKP_28:
(Start: 11 @20976 has 66 MA's), (13, 21006), (14, 21030), (21, 21117), (29, 21207), (30, 21213), (38, 21285), (45, 21489), (47, 21522), (48, 21531), (51, 21615),

Gene: Bengal_27 Start: 20562, Stop: 21218, Start Num: 11
Candidate Starts for Bengal_27:
(8, 20532), (Start: 11 @20562 has 66 MA's), (13, 20592), (14, 20616), (21, 20703), (30, 20799), (38, 20871), (45, 21075), (47, 21108), (48, 21117), (51, 21201),

Gene: BubbaBear_27 Start: 20665, Stop: 21321, Start Num: 11
Candidate Starts for BubbaBear_27:

(Start: 11 @20665 has 66 MA's), (13, 20695), (14, 20719), (21, 20806), (30, 20902), (38, 20974), (47, 21211), (48, 21220), (51, 21304),

Gene: Burritobowl_27 Start: 20732, Stop: 21388, Start Num: 11
Candidate Starts for Burritobowl_27:
(8, 20702), (Start: 11 @20732 has 66 MA's), (13, 20762), (14, 20786), (21, 20873), (30, 20969), (38, 21041), (47, 21278), (48, 21287), (51, 21371),

Gene: CanFranMach_27 Start: 20676, Stop: 21332, Start Num: 11
Candidate Starts for CanFranMach_27:
(Start: 11 @20676 has 66 MA's), (14, 20730), (18, 20784), (21, 20817), (30, 20913), (38, 20985), (45, 21189), (47, 21222), (48, 21231), (51, 21315),

Gene: Cashington_26 Start: 20020, Stop: 20676, Start Num: 11
Candidate Starts for Cashington_26:
(9, 19990), (Start: 11 @20020 has 66 MA's), (13, 20050), (14, 20074), (21, 20161), (30, 20257), (38, 20329), (45, 20533), (47, 20566), (48, 20575), (51, 20659),

Gene: Celaena_25 Start: 21446, Stop: 22117, Start Num: 11
Candidate Starts for Celaena_25:
(7, 21386), (Start: 11 @21446 has 66 MA's), (14, 21500), (19, 21572), (21, 21593), (24, 21638), (25, 21665), (28, 21680), (33, 21716), (36, 21758), (40, 21794), (45, 21974), (46, 22001), (47, 22007), (48, 22016),

Gene: ChiliPepper_25 Start: 20950, Stop: 21756, Start Num: 11
Candidate Starts for ChiliPepper_25:
(Start: 11 @20950 has 66 MA's), (14, 21004), (16, 21040), (19, 21076), (21, 21097), (24, 21142), (38, 21409), (40, 21433), (41, 21445), (42, 21448), (43, 21583), (47, 21646), (48, 21655), (49, 21703),

Gene: CroZenni_27 Start: 20570, Stop: 21226, Start Num: 11
Candidate Starts for CroZenni_27:
(8, 20540), (Start: 11 @20570 has 66 MA's), (13, 20600), (14, 20624), (21, 20711), (30, 20807), (47, 21116), (48, 21125), (51, 21209),

Gene: CupcakePrincess_27 Start: 20691, Stop: 21347, Start Num: 11
Candidate Starts for CupcakePrincess_27:
(Start: 11 @20691 has 66 MA's), (14, 20745), (21, 20832), (29, 20922), (30, 20928), (38, 21000), (45, 21204), (47, 21237), (48, 21246), (51, 21330),

Gene: DickRichards_27 Start: 21061, Stop: 21717, Start Num: 11
Candidate Starts for DickRichards_27:
(8, 21031), (Start: 11 @21061 has 66 MA's), (13, 21091), (14, 21115), (21, 21202), (30, 21298), (38, 21370), (47, 21607), (48, 21616), (51, 21700),

Gene: Didgeridoo_29 Start: 20811, Stop: 21524, Start Num: 11
Candidate Starts for Didgeridoo_29:
(Start: 11 @20811 has 66 MA's), (13, 20847), (14, 20871), (21, 20958), (27, 21042), (42, 21219), (47, 21414), (48, 21423),

Gene: DirtyBubble_25 Start: 20693, Stop: 21448, Start Num: 6
Candidate Starts for DirtyBubble_25:
(Start: 6 @20693 has 2 MA's), (10, 20747), (Start: 11 @20789 has 66 MA's), (14, 20843), (20, 20912), (21, 20924), (26, 20999), (41, 21137), (45, 21305), (47, 21338), (48, 21347),

Gene: Dismas_25 Start: 20950, Stop: 21744, Start Num: 11
Candidate Starts for Dismas_25:
(Start: 11 @20950 has 66 MA's), (14, 21004), (16, 21040), (19, 21076), (21, 21097), (24, 21142), (33, 21223), (38, 21397), (40, 21421), (41, 21433), (42, 21436), (43, 21571), (47, 21634), (48, 21643), (49, 21691),

Gene: Doobus_26 Start: 20337, Stop: 20993, Start Num: 11
Candidate Starts for Doobus_26:
(9, 20307), (Start: 11 @20337 has 66 MA's), (13, 20367), (14, 20391), (21, 20478), (30, 20574), (38, 20646), (47, 20883), (48, 20892), (51, 20976),

Gene: Elva_26 Start: 20763, Stop: 21440, Start Num: 11
Candidate Starts for Elva_26:
(Start: 11 @20763 has 66 MA's), (14, 20817), (20, 20886), (21, 20898), (40, 21117), (42, 21132), (47, 21330), (48, 21339), (51, 21423),

Gene: Eula_27 Start: 20652, Stop: 21308, Start Num: 11
Candidate Starts for Eula_27:
(Start: 11 @20652 has 66 MA's), (14, 20706), (21, 20793), (29, 20883), (30, 20889), (38, 20961), (45, 21165), (47, 21198), (48, 21207), (51, 21291),

Gene: Finalfrontier_28 Start: 21175, Stop: 21888, Start Num: 11
Candidate Starts for Finalfrontier_28:
(Start: 11 @21175 has 66 MA's), (13, 21211), (14, 21235), (21, 21322), (27, 21406), (42, 21583), (47, 21778), (48, 21787),

Gene: FlameThrower_25 Start: 20959, Stop: 21558, Start Num: 11
Candidate Starts for FlameThrower_25:
(1, 20512), (2, 20608), (3, 20647), (7, 20899), (Start: 11 @20959 has 66 MA's), (12, 20980), (14, 21013), (19, 21079), (32, 21214), (39, 21259), (44, 21400), (47, 21448), (48, 21457),

Gene: Grist_28 Start: 20630, Stop: 21343, Start Num: 11
Candidate Starts for Grist_28:
(Start: 11 @20630 has 66 MA's), (13, 20666), (14, 20690), (21, 20777), (27, 20861), (42, 21038), (47, 21233), (48, 21242),

Gene: Icarian_27 Start: 21241, Stop: 21921, Start Num: 11
Candidate Starts for Icarian_27:
(Start: 11 @21241 has 66 MA's), (14, 21295), (17, 21331), (20, 21364), (21, 21376), (26, 21451), (27, 21460), (41, 21610), (47, 21811), (48, 21820),

Gene: IndyLu_27 Start: 20621, Stop: 21310, Start Num: 11
Candidate Starts for IndyLu_27:
(Start: 11 @20621 has 66 MA's), (13, 20657), (14, 20681), (21, 20768), (27, 20852), (29, 20858), (37, 20951), (47, 21200), (48, 21209),

Gene: Jabb_27 Start: 20691, Stop: 21347, Start Num: 11
Candidate Starts for Jabb_27:
(Start: 11 @20691 has 66 MA's), (14, 20745), (21, 20832), (29, 20922), (30, 20928), (38, 21000), (45, 21204), (47, 21237), (48, 21246), (51, 21330),

Gene: Johnathan_26 Start: 20110, Stop: 20766, Start Num: 11

Candidate Starts for Johnathan_26:
(9, 20080), (Start: 11 @20110 has 66 MA's), (13, 20140), (14, 20164), (21, 20251), (30, 20347), (38, 20419), (45, 20623), (47, 20656), (48, 20665), (51, 20749),

Gene: Jovita_27 Start: 20756, Stop: 21412, Start Num: 11
Candidate Starts for Jovita_27:
(8, 20726), (Start: 11 @20756 has 66 MA's), (14, 20810), (29, 20987), (30, 20993), (38, 21065), (45, 21269), (47, 21302), (48, 21311), (51, 21395),

Gene: Kamdara_25 Start: 20949, Stop: 21743, Start Num: 11
Candidate Starts for Kamdara_25:
(Start: 11 @20949 has 66 MA's), (14, 21003), (16, 21039), (19, 21075), (21, 21096), (24, 21141), (33, 21222), (35, 21285), (38, 21396), (40, 21420), (41, 21432), (42, 21435), (43, 21570), (47, 21633), (48, 21642), (49, 21690),

Gene: Kate33_27 Start: 20629, Stop: 21342, Start Num: 11
Candidate Starts for Kate33_27:
(Start: 11 @20629 has 66 MA's), (13, 20665), (14, 20689), (21, 20776), (27, 20860), (42, 21037), (47, 21232), (48, 21241),

Gene: Katzastrophic_25 Start: 21077, Stop: 21676, Start Num: 11
Candidate Starts for Katzastrophic_25:
(1, 20630), (3, 20765), (4, 20858), (7, 21017), (Start: 11 @21077 has 66 MA's), (12, 21098), (14, 21131), (19, 21197), (32, 21332), (39, 21377), (44, 21518), (47, 21566), (48, 21575),

Gene: Kenzers_27 Start: 20640, Stop: 21299, Start Num: 11
Candidate Starts for Kenzers_27:
(Start: 11 @20640 has 66 MA's), (13, 20670), (14, 20694), (21, 20784), (30, 20880), (38, 20952), (45, 21156), (47, 21189), (48, 21198), (51, 21282),

Gene: Kieran_25 Start: 20953, Stop: 21747, Start Num: 11
Candidate Starts for Kieran_25:
(Start: 11 @20953 has 66 MA's), (14, 21007), (16, 21043), (19, 21079), (21, 21100), (24, 21145), (33, 21226), (38, 21400), (40, 21424), (41, 21436), (42, 21439), (43, 21574), (47, 21637), (48, 21646), (49, 21694),

Gene: Lahqtemish_27 Start: 20672, Stop: 21361, Start Num: 11
Candidate Starts for Lahqtemish_27:
(Start: 11 @20672 has 66 MA's), (13, 20708), (14, 20732), (15, 20756), (21, 20819), (27, 20903), (37, 21002), (47, 21251), (48, 21260),

Gene: Lilo27_27 Start: 20626, Stop: 21282, Start Num: 11
Candidate Starts for Lilo27_27:
(Start: 11 @20626 has 66 MA's), (14, 20680), (21, 20767), (22, 20773), (38, 20935), (45, 21139), (47, 21172), (48, 21181), (51, 21265),

Gene: LimaBean_26 Start: 20106, Stop: 20762, Start Num: 11
Candidate Starts for LimaBean_26:
(9, 20076), (Start: 11 @20106 has 66 MA's), (13, 20136), (14, 20160), (21, 20247), (30, 20343), (38, 20415), (47, 20652), (48, 20661), (51, 20745),

Gene: Loviatar_26 Start: 21336, Stop: 22016, Start Num: 11
Candidate Starts for Loviatar_26:

(Start: 11 @21336 has 66 MA's), (14, 21390), (17, 21426), (20, 21459), (21, 21471), (26, 21546), (41, 21705), (47, 21906), (48, 21915),

Gene: Lynlen_27 Start: 20640, Stop: 21299, Start Num: 11
Candidate Starts for Lynlen_27:
(Start: 11 @20640 has 66 MA's), (13, 20670), (14, 20694), (21, 20784), (30, 20880), (38, 20952), (45, 21156), (47, 21189), (48, 21198), (51, 21282),

Gene: Milomuff_27 Start: 20471, Stop: 21127, Start Num: 11
Candidate Starts for Milomuff_27:
(9, 20441), (Start: 11 @20471 has 66 MA's), (13, 20501), (14, 20525), (21, 20612), (30, 20708), (38, 20780), (45, 20984), (47, 21017), (48, 21026), (51, 21110),

Gene: MsUbiquitous_27 Start: 20691, Stop: 21347, Start Num: 11
Candidate Starts for MsUbiquitous_27:
(Start: 11 @20691 has 66 MA's), (14, 20745), (21, 20832), (29, 20922), (30, 20928), (38, 21000), (45, 21204), (47, 21237), (48, 21246), (51, 21330),

Gene: Nicky22_28 Start: 21102, Stop: 21758, Start Num: 11
Candidate Starts for Nicky22_28:
(Start: 11 @21102 has 66 MA's), (14, 21156), (29, 21333), (30, 21339), (38, 21411), (45, 21615), (47, 21648), (48, 21657), (51, 21741),

Gene: PastaFagioli_27 Start: 20657, Stop: 21346, Start Num: 11
Candidate Starts for PastaFagioli_27:
(8, 20627), (Start: 11 @20657 has 66 MA's), (13, 20693), (14, 20717), (15, 20741), (21, 20804), (27, 20888), (37, 20987), (47, 21236), (48, 21245),

Gene: Pecas_27 Start: 20652, Stop: 21308, Start Num: 11
Candidate Starts for Pecas_27:
(Start: 11 @20652 has 66 MA's), (14, 20706), (21, 20793), (29, 20883), (30, 20889), (38, 20961), (45, 21165), (47, 21198), (48, 21207), (51, 21291),

Gene: PhigPhack_28 Start: 20643, Stop: 21299, Start Num: 11
Candidate Starts for PhigPhack_28:
(8, 20613), (Start: 11 @20643 has 66 MA's), (13, 20673), (14, 20697), (29, 20874), (30, 20880), (38, 20952), (45, 21156), (47, 21189), (48, 21198), (51, 21282),

Gene: Phisb_27 Start: 20666, Stop: 21364, Start Num: 11
Candidate Starts for Phisb_27:
(Start: 11 @20666 has 66 MA's), (13, 20696), (14, 20720), (21, 20810), (26, 20885), (27, 20894), (38, 21017), (45, 21221), (47, 21254), (48, 21263), (51, 21347),

Gene: PondAmelia_26 Start: 20714, Stop: 21487, Start Num: 6
Candidate Starts for PondAmelia_26:
(Start: 6 @20714 has 2 MA's), (Start: 11 @20810 has 66 MA's), (14, 20864), (20, 20933), (21, 20945), (26, 21020), (41, 21176), (47, 21377), (48, 21386),

Gene: QMacho_28 Start: 21135, Stop: 21791, Start Num: 11
Candidate Starts for QMacho_28:
(Start: 11 @21135 has 66 MA's), (14, 21189), (21, 21276), (29, 21366), (30, 21372), (38, 21444), (45, 21648), (47, 21681), (48, 21690), (51, 21774),

Gene: Quenya_26 Start: 20943, Stop: 21614, Start Num: 11
Candidate Starts for Quenya_26:
(7, 20883), (Start: 11 @20943 has 66 MA's), (14, 20997), (19, 21069), (21, 21090), (23, 21099), (27, 21174), (36, 21255), (42, 21306), (47, 21504), (48, 21513),

Gene: Rona_25 Start: 20950, Stop: 21744, Start Num: 11
Candidate Starts for Rona_25:
(Start: 11 @20950 has 66 MA's), (14, 21004), (16, 21040), (19, 21076), (21, 21097), (24, 21142), (33, 21223), (38, 21397), (40, 21421), (41, 21433), (42, 21436), (43, 21571), (47, 21634), (48, 21643),

Gene: SanaSana_27 Start: 21275, Stop: 21955, Start Num: 11
Candidate Starts for SanaSana_27:
(Start: 11 @21275 has 66 MA's), (14, 21329), (17, 21365), (20, 21398), (21, 21410), (26, 21485), (41, 21644), (47, 21845), (48, 21854),

Gene: SansAfet_27 Start: 20578, Stop: 21234, Start Num: 11
Candidate Starts for SansAfet_27:
(Start: 11 @20578 has 66 MA's), (13, 20608), (14, 20632), (21, 20719), (29, 20809), (30, 20815), (38, 20887), (47, 21124), (48, 21133), (51, 21217),

Gene: SarBear_27 Start: 20632, Stop: 21288, Start Num: 11
Candidate Starts for SarBear_27:
(Start: 11 @20632 has 66 MA's), (14, 20686), (30, 20869), (38, 20941), (45, 21145), (47, 21178), (48, 21187), (51, 21271),

Gene: Sharkboy_25 Start: 20937, Stop: 21731, Start Num: 11
Candidate Starts for Sharkboy_25:
(Start: 11 @20937 has 66 MA's), (14, 20991), (16, 21027), (19, 21063), (21, 21084), (24, 21129), (33, 21210), (38, 21384), (40, 21408), (41, 21420), (42, 21423), (43, 21558), (47, 21621), (48, 21630), (49, 21678), (51, 21714),

Gene: SirBeanington_27 Start: 20674, Stop: 21357, Start Num: 11
Candidate Starts for SirBeanington_27:
(Start: 11 @20674 has 66 MA's), (13, 20704), (14, 20728), (21, 20818), (27, 20902), (31, 20938), (38, 21010), (45, 21214), (47, 21247), (48, 21256), (51, 21340),

Gene: Slay_27 Start: 21175, Stop: 21831, Start Num: 11
Candidate Starts for Slay_27:
(Start: 11 @21175 has 66 MA's), (14, 21229), (29, 21406), (30, 21412), (38, 21484), (45, 21688), (47, 21721), (48, 21730), (51, 21814),

Gene: Softsoap_26 Start: 20401, Stop: 21057, Start Num: 11
Candidate Starts for Softsoap_26:
(8, 20371), (Start: 11 @20401 has 66 MA's), (13, 20431), (14, 20455), (21, 20542), (30, 20638), (38, 20710), (47, 20947), (48, 20956), (51, 21040),

Gene: Solea_28 Start: 20471, Stop: 21127, Start Num: 11
Candidate Starts for Solea_28:
(9, 20441), (Start: 11 @20471 has 66 MA's), (13, 20501), (14, 20525), (21, 20612), (30, 20708), (38, 20780), (45, 20984), (47, 21017), (48, 21026), (51, 21110),

Gene: Stoor_26 Start: 21272, Stop: 21952, Start Num: 11
Candidate Starts for Stoor_26:

(Start: 11 @21272 has 66 MA's), (14, 21326), (17, 21362), (20, 21395), (21, 21407), (26, 21482), (41, 21641), (45, 21809), (47, 21842), (48, 21851), (49, 21899), (50, 21905),

Gene: Stromboli_25 Start: 20830, Stop: 21489, Start Num: 11
Candidate Starts for Stromboli_25:
(Start: 6 @20734 has 2 MA's), (10, 20788), (Start: 11 @20830 has 66 MA's), (14, 20884), (20, 20953), (21, 20965), (26, 21040), (41, 21178), (45, 21346), (47, 21379), (48, 21388), (49, 21436), (50, 21442),

Gene: Swervy_27 Start: 20632, Stop: 21288, Start Num: 11
Candidate Starts for Swervy_27:
(Start: 11 @20632 has 66 MA's), (14, 20686), (21, 20773), (29, 20863), (30, 20869), (38, 20941), (45, 21145), (47, 21178), (48, 21187), (51, 21271),

Gene: TukTuk_27 Start: 20691, Stop: 21347, Start Num: 11
Candidate Starts for TukTuk_27:
(8, 20661), (Start: 11 @20691 has 66 MA's), (14, 20745), (29, 20922), (30, 20928), (38, 21000), (45, 21204), (47, 21237), (48, 21246), (51, 21330),

Gene: WalkingDead_26 Start: 21396, Stop: 22058, Start Num: 11
Candidate Starts for WalkingDead_26:
(Start: 11 @21396 has 66 MA's), (14, 21450), (20, 21519), (21, 21531), (26, 21606), (41, 21747), (47, 21948), (48, 21957),