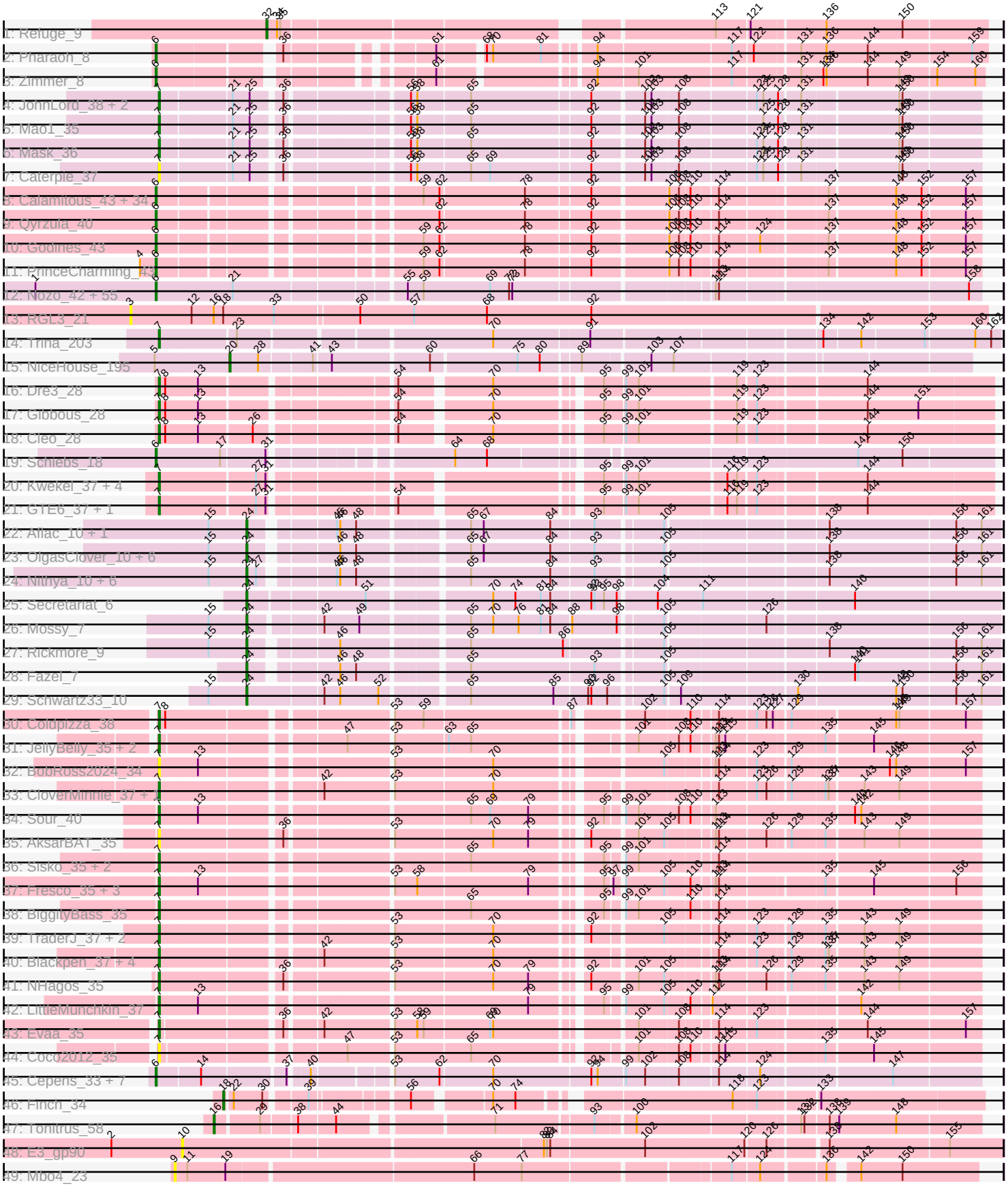
# Pham 339399


1: Refuge_9
2: Pharaon_8
3: Zimmer_8
4: JohnLord_38 + 2
5: Mao1_35
6: Mask_36
7: Caterpie_37
8: Calamitous_43 + 34
9: Qyrzula_40
10: Godines_43
11: PrinceCharming_43
12: Nozo_42 + 55
13: RGL3_21
14: Trina_203
15: NiceHouse_195
16: Dre3_28
17: Gibbous_28
18: Cleo_28
19: Schiebs_18
20: Kwekel_37 + 4
21: GTE6_37 + 1
22: Aflac_10 + 1
23: OlgasClover_10 + 6
24: Nithya_10 + 6
25: Secretariat_6
26: Mossy_7
27: Rickmore_9
28: Fazel_7
29: Schwartz33_10
30: Coldpizza_38
31: JellyBelly_35 + 2
32: BobRoss2024_34
33: CloverMinnie_37 + 1
34: Sour_40
35: AksarBAT_35
36: Sisko_35 + 2
37: Fresco_35 + 3
38: BiggityBass_35
39: TraderJ_37 + 2
40: Blackpen_37 + 4
41: NHagos_35
42: LittleMunchkin_37
43: Evaa_35
44: Coco2012_35
45: Cepens_33 + 7
46: Finch_34
47: Tonitrus_58
48: E3_gp90
49: Mbo4_23

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 339399 Report

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

Pham number 339399 has 179 members, 17 are drafts.

Phages represented in each track:
• Track 1 : Refuge_9
• Track 2 : Pharaoh_8
• Track 3 : Zimmer_8
• Track 4 : JohnLord_38, Sejanus_36, Dori_37
• Track 5 : Mao1_35
• Track 6 : Mask_36
• Track 7 : Caterpie_37
• Track 8 : Calamitous_43, Boyle_43, Lars_43, Faze9_42, Lephleur_43, ItsyBitsy1_43, FrenchFry_43, Allegro_43, Tinciduntsolum_44, Bananafish_43, Hedgerow_43, TA17A_44, West99_43, Coffee_43, Kheth_43, Blocker23_43, Tres_43, Holeinone_43, Kaleb_43, Phantasmagoria_43, Sabella_42, Kolhan_43, Rhinoforte_43, LilSmirk_43, Glass_43, Brownie5_43, Eaglehorse_43, Arbiter_42, Vic9_00042, Rosebush_42, Laurie_42, Opia_43, Ares_43, MasterPo_43, LizLemon_43
• Track 9 : Qyrzula_40
• Track 10 : Godines_43
• Track 11 : PrinceCharming_43
• Track 12 : Nozo_42, Halfpint_41, Yahalom_42, GlenHope_43, Pipefish_44, Phayeta_43, Chandler_42, Briakila_43, MmasiCarm_42, SwainyDoc_42, Daisy_42, Deenasa_42, Abinghost_42, Chalmers_42, Devonte_42, Casbah_41, Glubnar_43, Rita1961_42, Kamiyu_42, Neos5_42, Obutu_42, Bernardo_43, Phaedrus_40, Athena_43, Gervas_42, Philly_41, HarveySr_42, RomaT_42, Marlia_42, Phlyer_42, Shenandoah_42, Yinz_42, ChaChing_42, Mortcellus_41, Corofin_42, LestyG_42, Ben11_41, Compostia_43, TinyTerror_42, Marley1013_42, Olivio_41, Mulaychimus_42, Heathcliff_42, Jackstina_39, SynergyX_42, OrangeOswald_42, RagingRooster_42, Tydolla_42, SlippinJimmy_42, Baloo_42, Akoma_42, Chentzyk_42, Audrey_42, Gadjet_43, Morty007_42, Kronus_41
• Track 13 : RGL3_21
• Track 14 : Trina_203
• Track 15 : NiceHouse_195
• Track 16 : Dre3_28
• Track 17 : Gibbous_28
• Track 18 : Cleo_28
• Track 19 : Schiebs_18
• Track 20 : Kwekel_37, EdmundFerry_36, RoadKill_35, Chickadee_37, Twonlo_35
• Track 21 : GTE6_37, Tiamoceli_38
• Track 22 : Aflac_10, Figliar_10

• Track 23 : OlgasClover_10, Jodelie19_10, BluerMoon_10, Eddiemania_9, TenaciousP_10, Tonaltzin_10, MajinBuu_10
• Track 24 : Nithya_10, Glintora_9, Chikenjars_10, Duffington_10, Luthien_10, EndAve_10, AlainaMarie_10
• Track 25 : Secretariat_6
• Track 26 : Mossy_7
• Track 27 : Rickmore_9
• Track 28 : Fazel_7
• Track 29 : Schwartz33_10
• Track 30 : Coldpizza_38
• Track 31 : JellyBelly_35, CharlottesWeb_35, Mariokart_35
• Track 32 : BobRoss2024_34
• Track 33 : CloverMinnie_37, CaiB_37
• Track 34 : Sour_40
• Track 35 : AksarBAT_35
• Track 36 : Sisko_35, Yago84_35, AnClar_36
• Track 37 : Fresco_35, Axumite_35, Shatter_35, Ligma_35
• Track 38 : BiggityBass_35
• Track 39 : TraderJ_37, Yeshua_37, Wooper_37
• Track 40 : Blackpen_37, MossRose_37, AnarQue_37, FelixTres_37, MakoManhole_37
• Track 41 : NHagos_35
• Track 42 : LittleMunchkin_37
• Track 43 : Evaa_35
• Track 44 : Coco2012_35
• Track 45 : Cepens_33, D12_32, Argie_34, PR_33, GodPhather_34, Taptic_33, Jeon_33, Megabear_33
• Track 46 : Finch_34
• Track 47 : Tonitrus_58
• Track 48 : E3_gp90
• Track 49 : Mbo4_23

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

The start number called the most often in the published annotations is 6, it was called in 101 of the 162 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abinghost_42, Akoma_42, Allegro_43, Arbiter_42, Ares_43, Argie_34, Athena_43, Audrey_42, Baloo_42, Bananafish_43, Ben11_41, Bernardo_43, Blocker23_43, Boyle_43, Briakila_43, Brownie5_43, Calamitous_43, Casbah_41, Cepens_33, ChaChing_42, Chalmers_42, Chandler_42, Chentzyk_42, Coffee_43, Compostia_43, Corofin_42, D12_32, Daisy_42, Deenasa_42, Devonte_42, Eaglehorse_43, Faze9_42, FrenchFry_43, Gadjet_43, Gervas_42, Glass_43, GlenHope_43, Glubnar_43, GodPhather_34, Godines_43, Halfpint_41, HarveySr_42, Heathcliff_42, Hedgerow_43, Holeinone_43, ItsyBitsy1_43, Jackstina_39, Jeon_33, Kaleb_43, Kamiyu_42, Kheth_43, Kolhan_43, Kronus_41, Lars_43, Laurie_42, Lephleur_43, LestyG_42, LilSmirk_43, LizLemon_43, Marley1013_42, Marlia_42, MasterPo_43, Megabear_33, MmasiCarm_42, Mortcellus_41, Morty007_42, Mulaychimus_42, Neos5_42, Nozo_42, Obutu_42, Olivio_41, Opia_43, OrangeOswald_42, PR_33,

Phaedrus_40, Phantasmagoria_43, Pharaoh_8, Phayeta_43, Philly_41, Phlyer_42, Pipefish_44, PrinceCharming_43, Qyrzula_40, RagingRooster_42, Rhinoforte_43, Rita1961_42, RomaT_42, Rosebush_42, Sabella_42, Schiebs_18, Shenandoah_42, SlippinJimmy_42, SwainyDoc_42, SynergyX_42, TA17A_44, Taptic_33, Tinciduntsolum_44, TinyTerror_42, Tres_43, Tydolla_42, Vic9_00042, West99_43, Yahalom_42, Yinz_42, Zimmer_8,

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

Genes that do not have the "Most Annotated" start:
• Aflac_10, AksarBAT_35, AlainaMarie_10, AnClar_36, AnarQue_37, Axumite_35, BiggityBass_35, Blackpen_37, BluerMoon_10, BobRoss2024_34, CaiB_37, Caterpie_37, CharlottesWeb_35, Chickadee_37, Chikenjars_10, Cleo_28, CloverMinnie_37, Coco2012_35, Coldpizza_38, Dori_37, Dre3_28, Duffington_10, E3_gp90, Eddiemania_9, EdmundFerry_36, EndAve_10, Evaa_35, Fazel_7, FelixTres_37, Figliar_10, Finch_34, Fresco_35, GTE6_37, Gibbous_28, Glintora_9, JellyBelly_35, Jodelie19_10, JohnLord_38, Kwekel_37, Ligma_35, LittleMunchkin_37, Luthien_10, MajinBuu_10, MakoManhole_37, Mao1_35, Mariokart_35, Mask_36, Mbo4_23, MossRose_37, Mossy_7, NHagos_35, NiceHouse_195, Nithya_10, OlgasClover_10, RGL3_21, Refuge_9, Rickmore_9, RoadKill_35, Schwartz33_10, Secretariat_6, Sejanus_36, Shatter_35, Sisko_35, Sour_40, TenaciousP_10, Tiamoceli_38, Tonaltzin_10, Tonitrus_58, TraderJ_37, Trina_203, Twonlo_35, Wooper_37, Yago84_35, Yeshua_37,

**Summary by start number:**

Start 3:
• Found in 1 of 179 ( 0.6% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RGL3_21 (CA),

Start 6:
• Found in 105 of 179 ( 58.7% ) of genes in pham
• Manual Annotations of this start: 101 of 162
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abinghost_42 (B3), Akoma_42 (B3), Allegro_43 (B2), Arbiter_42 (B2), Ares_43 (B2), Argie_34 (W), Athena_43 (B3), Audrey_42 (B3), Baloo_42 (B3), Bananafish_43 (B2), Ben11_41 (B3), Bernardo_43 (B3), Blocker23_43 (B2), Boyle_43 (B2), Briakila_43 (B3), Brownie5_43 (B2), Calamitous_43 (B2), Casbah_41 (B3), Cepens_33 (W), ChaChing_42 (B3), Chalmers_42 (B3), Chandler_42 (B3), Chentzyk_42 (B3), Coffee_43 (B2), Compostia_43 (B3), Corofin_42 (B3), D12_32 (W), Daisy_42 (B3), Deenasa_42 (B3), Devonte_42 (B3), Eaglehorse_43 (B2), Faze9_42 (B2), FrenchFry_43 (B2), Gadjet_43 (B3), Gervas_42 (B3), Glass_43 (B2), GlenHope_43 (B3), Glubnar_43 (B3), GodPhather_34 (W), Godines_43 (B2), Halfpint_41 (B3), HarveySr_42 (B3), Heathcliff_42 (B3), Hedgerow_43 (B2), Holeinone_43 (B2), ItsyBitsy1_43 (B2), Jackstina_39 (B3), Jeon_33 (W), Kaleb_43 (B2), Kamiyu_42 (B3), Kheth_43 (B2), Kolhan_43 (B2), Kronus_41 (B3), Lars_43 (B2), Laurie_42 (B2), Lephleur_43 (B2), LestyG_42 (B3), LilSmirk_43 (B2), LizLemon_43 (B2), Marley1013_42 (B3), Marlia_42 (B3), MasterPo_43 (B2), Megabear_33 (W), MmasiCarm_42 (B3), Mortcellus_41 (B3), Morty007_42 (B3), Mulaychimus_42 (B3), Neos5_42 (B3),

Nozo_42 (B3), Obutu_42 (B3), Olivio_41 (B3), Opia_43 (B2), OrangeOswald_42 (B3), PR_33 (W), Phaedrus_40 (B3), Phantasmagoria_43 (B2), Pharaoh_8 (A12), Phayeta_43 (B3), Philly_41 (B3), Phlyer_42 (B3), Pipefish_44 (B3), PrinceCharming_43 (B2), Qyrzula_40 (B2), RagingRooster_42 (B3), Rhinoforte_43 (B2), Rita1961_42 (B3), RomaT_42 (B3), Rosebush_42 (B2), Sabella_42 (B2), Schiebs_18 (CW3), Shenandoah_42 (B3), SlippinJimmy_42 (B3), SwainyDoc_42 (B3), SynergyX_42 (B3), TA17A_44 (B2), Taptic_33 (W), Tinciduntsolum_44 (B2), TinyTerror_42 (B3), Tres_43 (B2), Tydolla_42 (B3), Vic9_00042 (B2), West99_43 (B2), Yahalom_42 (B3), Yinz_42 (B3), Zimmer_8 (A12),

Start 7:
• Found in 46 of 179 ( 25.7% ) of genes in pham
• Manual Annotations of this start: 37 of 162
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AksarBAT_35 (DR), AnClar_36 (DR), AnarQue_37 (DR), Axumite_35 (DR), BiggityBass_35 (DR), Blackpen_37 (DR), BobRoss2024_34 (DR), CaiB_37 (DR), Caterpie_37 (AD), CharlottesWeb_35 (DR), Chickadee_37 (DE3), Cleo_28 (CT), CloverMinnie_37 (DR), Coco2012_35 (DR), Coldpizza_38 (DR), Dori_37 (AD), Dre3_28 (CT), EdmundFerry_36 (DE3), Evaa_35 (DR), FelixTres_37 (DR), Fresco_35 (DR), GTE6_37 (DE3), Gibbous_28 (CT), JellyBelly_35 (DR), JohnLord_38 (AD), Kwekel_37 (DE3), Ligma_35 (DR), LittleMunchkin_37 (DR), MakoManhole_37 (DR), Mao1_35 (AD), Mariokart_35 (DR), Mask_36 (AD), MossRose_37 (DR), NHagos_35 (DR), RoadKill_35 (DE3), Sejanus_36 (AD), Shatter_35 (DR), Sisko_35 (DR), Sour_40 (DR), Tiamoceli_38 (DE3), TraderJ_37 (DR), Trina_203 (CE), Twonlo_35 (DE3), Wooper_37 (DR), Yago84_35 (DR), Yeshua_37 (DR),

Start 9:
• Found in 1 of 179 ( 0.6% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mbo4_23 (singleton),

Start 10:
• Found in 1 of 179 ( 0.6% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: E3_gp90 (singleton),

Start 16:
• Found in 2 of 179 ( 1.1% ) of genes in pham
• Manual Annotations of this start: 1 of 162
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Tonitrus_58 (singleton),

Start 18:
• Found in 2 of 179 ( 1.1% ) of genes in pham
• Manual Annotations of this start: 1 of 162
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Finch_34 (singleton),

Start 20:
• Found in 1 of 179 ( 0.6% ) of genes in pham

• Manual Annotations of this start: 1 of 162
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NiceHouse_195 (CE),

Start 24:
• Found in 21 of 179 ( 11.7% ) of genes in pham
• Manual Annotations of this start: 20 of 162
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aflac_10 (DJ), AlainaMarie_10 (DJ), BluerMoon_10 (DJ), Chikenjars_10 (DJ), Duffington_10 (DJ), Eddiemania_9 (DJ), EndAve_10 (DJ), Fazel_7 (DJ), Figliar_10 (DJ), Glintora_9 (DJ), Jodelie19_10 (DJ), Luthien_10 (DJ), MajinBuu_10 (DJ), Mossy_7 (DJ), Nithya_10 (DJ), OlgasClover_10 (DJ), Rickmore_9 (DJ), Schwartz33_10 (DJ), Secretariat_6 (DJ), TenaciousP_10 (DJ), Tonaltzin_10 (DJ),

Start 32:
• Found in 1 of 179 ( 0.6% ) of genes in pham
• Manual Annotations of this start: 1 of 162
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Refuge_9 (A12),

**Summary by clusters:**

There are 13 clusters represented in this pham: singleton, DJ, W, A12, CW3, DE3, CE, B2, B3, CT, DR, CA, AD,

Info for manual annotations of cluster A12:
•Start number 6 was manually annotated 2 times for cluster A12.
•Start number 32 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster AD:
•Start number 7 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster B2:
•Start number 6 was manually annotated 37 times for cluster B2.

Info for manual annotations of cluster B3:
•Start number 6 was manually annotated 53 times for cluster B3.

Info for manual annotations of cluster CE:
•Start number 7 was manually annotated 1 time for cluster CE.
•Start number 20 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CT:
•Start number 7 was manually annotated 3 times for cluster CT.

Info for manual annotations of cluster CW3:
•Start number 6 was manually annotated 1 time for cluster CW3.

Info for manual annotations of cluster DE3:
•Start number 7 was manually annotated 6 times for cluster DE3.

Info for manual annotations of cluster DJ:
•Start number 24 was manually annotated 20 times for cluster DJ.

Info for manual annotations of cluster DR:
•Start number 7 was manually annotated 23 times for cluster DR.

Info for manual annotations of cluster W:
•Start number 6 was manually annotated 8 times for cluster W.

### *Gene Information:*

Gene: Abinghost_42 Start: 38010, Stop: 38735, Start Num: 6
Candidate Starts for Abinghost_42:
(1, 37896), (Start: 6 @38010 has 101 MA's), (21, 38082), (55, 38229), (59, 38244), (69, 38307), (72, 38325), (73, 38328), (113, 38499), (114, 38502), (158, 38724),

Gene: Aflac_10 Start: 5221, Stop: 5865, Start Num: 24
Candidate Starts for Aflac_10:
(15, 5185), (Start: 24 @5221 has 20 MA's), (45, 5287), (46, 5290), (48, 5305), (65, 5398), (67, 5410), (84, 5473), (93, 5512), (105, 5569), (138, 5707), (156, 5824), (161, 5848),

Gene: Akoma_42 Start: 38014, Stop: 38739, Start Num: 6
Candidate Starts for Akoma_42:
(1, 37900), (Start: 6 @38014 has 101 MA's), (21, 38086), (55, 38233), (59, 38248), (69, 38311), (72, 38329), (73, 38332), (113, 38503), (114, 38506), (158, 38728),

Gene: AksarBAT_35 Start: 30939, Stop: 31634, Start Num: 7
Candidate Starts for AksarBAT_35:
(Start: 7 @30939 has 37 MA's), (36, 31044), (53, 31134), (70, 31224), (79, 31257), (92, 31299), (101, 31338), (105, 31362), (113, 31401), (114, 31404), (126, 31446), (129, 31464), (135, 31494), (143, 31527), (149, 31560),

Gene: AlainaMarie_10 Start: 5212, Stop: 5856, Start Num: 24
Candidate Starts for AlainaMarie_10:
(15, 5176), (Start: 24 @5212 has 20 MA's), (27, 5221), (45, 5278), (46, 5281), (48, 5296), (65, 5389), (84, 5464), (93, 5503), (105, 5560), (138, 5698), (156, 5815), (161, 5839),

Gene: Allegro_43 Start: 38534, Stop: 39229, Start Num: 6
Candidate Starts for Allegro_43:
(Start: 6 @38534 has 101 MA's), (59, 38744), (62, 38759), (78, 38837), (92, 38894), (106, 38960), (108, 38969), (110, 38978), (114, 38999), (137, 39092), (148, 39152), (152, 39176), (157, 39215),

Gene: AnClar_36 Start: 33290, Stop: 33988, Start Num: 7
Candidate Starts for AnClar_36:
(Start: 7 @33290 has 37 MA's), (65, 33554), (95, 33662), (99, 33674), (101, 33686), (114, 33752),

Gene: AnarQue_37 Start: 32400, Stop: 33092, Start Num: 7
Candidate Starts for AnarQue_37:
(Start: 7 @32400 has 37 MA's), (42, 32535), (53, 32595), (70, 32685), (114, 32862), (123, 32895), (129, 32922), (135, 32952), (137, 32955), (143, 32985), (149, 33018),

Gene: Arbiter_42 Start: 38620, Stop: 39315, Start Num: 6
Candidate Starts for Arbiter_42:
(Start: 6 @38620 has 101 MA's), (59, 38830), (62, 38845), (78, 38923), (92, 38980), (106, 39046), (108, 39055), (110, 39064), (114, 39085), (137, 39178), (148, 39238), (152, 39262), (157, 39301),

Gene: Ares_43 Start: 38604, Stop: 39299, Start Num: 6
Candidate Starts for Ares_43:
(Start: 6 @38604 has 101 MA's), (59, 38814), (62, 38829), (78, 38907), (92, 38964), (106, 39030), (108, 39039), (110, 39048), (114, 39069), (137, 39162), (148, 39222), (152, 39246), (157, 39285),

Gene: Argie_34 Start: 34873, Stop: 35583, Start Num: 6
Candidate Starts for Argie_34:
(Start: 6 @34873 has 101 MA's), (14, 34912), (37, 34984), (40, 34999), (53, 35062), (62, 35104), (70, 35152), (92, 35242), (94, 35248), (99, 35272), (102, 35290), (108, 35320), (114, 35353), (124, 35389), (147, 35503),

Gene: Athena_43 Start: 38761, Stop: 39486, Start Num: 6
Candidate Starts for Athena_43:
(1, 38647), (Start: 6 @38761 has 101 MA's), (21, 38833), (55, 38980), (59, 38995), (69, 39058), (72, 39076), (73, 39079), (113, 39250), (114, 39253), (158, 39475),

Gene: Audrey_42 Start: 38010, Stop: 38735, Start Num: 6
Candidate Starts for Audrey_42:
(1, 37896), (Start: 6 @38010 has 101 MA's), (21, 38082), (55, 38229), (59, 38244), (69, 38307), (72, 38325), (73, 38328), (113, 38499), (114, 38502), (158, 38724),

Gene: Axumite_35 Start: 30447, Stop: 31139, Start Num: 7
Candidate Starts for Axumite_35:
(Start: 7 @30447 has 37 MA's), (13, 30483), (53, 30642), (58, 30663), (79, 30765), (95, 30819), (97, 30825), (99, 30831), (105, 30867), (110, 30888), (113, 30906), (114, 30909), (135, 30999), (145, 31041), (156, 31116),

Gene: Baloo_42 Start: 38013, Stop: 38738, Start Num: 6
Candidate Starts for Baloo_42:
(1, 37899), (Start: 6 @38013 has 101 MA's), (21, 38085), (55, 38232), (59, 38247), (69, 38310), (72, 38328), (73, 38331), (113, 38502), (114, 38505), (158, 38727),

Gene: Bananafish_43 Start: 38540, Stop: 39235, Start Num: 6
Candidate Starts for Bananafish_43:
(Start: 6 @38540 has 101 MA's), (59, 38750), (62, 38765), (78, 38843), (92, 38900), (106, 38966), (108, 38975), (110, 38984), (114, 39005), (137, 39098), (148, 39158), (152, 39182), (157, 39221),

Gene: Ben11_41 Start: 37832, Stop: 38557, Start Num: 6
Candidate Starts for Ben11_41:
(1, 37718), (Start: 6 @37832 has 101 MA's), (21, 37904), (55, 38051), (59, 38066), (69, 38129), (72, 38147), (73, 38150), (113, 38321), (114, 38324), (158, 38546),

Gene: Bernardo_43 Start: 38558, Stop: 39283, Start Num: 6
Candidate Starts for Bernardo_43:
(1, 38444), (Start: 6 @38558 has 101 MA's), (21, 38630), (55, 38777), (59, 38792), (69, 38855), (72, 38873), (73, 38876), (113, 39047), (114, 39050), (158, 39272),

Gene: BiggityBass_35 Start: 32697, Stop: 33395, Start Num: 7

Candidate Starts for BiggityBass_35:
(Start: 7 @32697 has 37 MA's), (65, 32961), (95, 33069), (99, 33081), (101, 33093), (110, 33138), (114, 33159),

Gene: Blackpen_37 Start: 31818, Stop: 32510, Start Num: 7
Candidate Starts for Blackpen_37:
(Start: 7 @31818 has 37 MA's), (42, 31953), (53, 32013), (70, 32103), (114, 32280), (123, 32313), (129, 32340), (135, 32370), (137, 32373), (143, 32403), (149, 32436),

Gene: Blocker23_43 Start: 38658, Stop: 39353, Start Num: 6
Candidate Starts for Blocker23_43:
(Start: 6 @38658 has 101 MA's), (59, 38868), (62, 38883), (78, 38961), (92, 39018), (106, 39084), (108, 39093), (110, 39102), (114, 39123), (137, 39216), (148, 39276), (152, 39300), (157, 39339),

Gene: BluerMoon_10 Start: 5215, Stop: 5859, Start Num: 24
Candidate Starts for BluerMoon_10:
(15, 5179), (Start: 24 @5215 has 20 MA's), (46, 5284), (48, 5299), (65, 5392), (67, 5404), (84, 5467), (93, 5506), (105, 5563), (138, 5701), (156, 5818), (161, 5842),

Gene: BobRoss2024_34 Start: 30450, Stop: 31145, Start Num: 7
Candidate Starts for BobRoss2024_34:
(Start: 7 @30450 has 37 MA's), (13, 30486), (53, 30645), (70, 30735), (105, 30873), (113, 30912), (114, 30915), (123, 30948), (129, 30975), (146, 31062), (148, 31068), (157, 31131),

Gene: Boyle_43 Start: 38659, Stop: 39354, Start Num: 6
Candidate Starts for Boyle_43:
(Start: 6 @38659 has 101 MA's), (59, 38869), (62, 38884), (78, 38962), (92, 39019), (106, 39085), (108, 39094), (110, 39103), (114, 39124), (137, 39217), (148, 39277), (152, 39301), (157, 39340),

Gene: Briakila_43 Start: 38780, Stop: 39505, Start Num: 6
Candidate Starts for Briakila_43:
(1, 38666), (Start: 6 @38780 has 101 MA's), (21, 38852), (55, 38999), (59, 39014), (69, 39077), (72, 39095), (73, 39098), (113, 39269), (114, 39272), (158, 39494),

Gene: Brownie5_43 Start: 38665, Stop: 39360, Start Num: 6
Candidate Starts for Brownie5_43:
(Start: 6 @38665 has 101 MA's), (59, 38875), (62, 38890), (78, 38968), (92, 39025), (106, 39091), (108, 39100), (110, 39109), (114, 39130), (137, 39223), (148, 39283), (152, 39307), (157, 39346),

Gene: CaiB_37 Start: 32386, Stop: 33078, Start Num: 7
Candidate Starts for CaiB_37:
(Start: 7 @32386 has 37 MA's), (42, 32521), (53, 32581), (70, 32671), (114, 32848), (123, 32881), (126, 32890), (129, 32908), (135, 32938), (137, 32941), (143, 32971), (149, 33004),

Gene: Calamitous_43 Start: 38545, Stop: 39240, Start Num: 6
Candidate Starts for Calamitous_43:
(Start: 6 @38545 has 101 MA's), (59, 38755), (62, 38770), (78, 38848), (92, 38905), (106, 38971), (108, 38980), (110, 38989), (114, 39010), (137, 39103), (148, 39163), (152, 39187), (157, 39226),

Gene: Casbah_41 Start: 37862, Stop: 38587, Start Num: 6
Candidate Starts for Casbah_41:
(1, 37748), (Start: 6 @37862 has 101 MA's), (21, 37934), (55, 38081), (59, 38096), (69, 38159), (72, 38177), (73, 38180), (113, 38351), (114, 38354), (158, 38576),

Gene: Caterpie_37 Start: 35137, Stop: 35841, Start Num: 7
Candidate Starts for Caterpie_37:
(Start: 7 @35137 has 37 MA's), (21, 35200), (25, 35215), (36, 35239), (56, 35341), (58, 35347), (65, 35395), (69, 35413), (92, 35503), (102, 35548), (103, 35554), (108, 35578), (123, 35644), (125, 35650), (128, 35662), (131, 35680), (149, 35767), (150, 35770),

Gene: Cepens_33 Start: 34588, Stop: 35298, Start Num: 6
Candidate Starts for Cepens_33:
(Start: 6 @34588 has 101 MA's), (14, 34627), (37, 34699), (40, 34714), (53, 34777), (62, 34819), (70, 34867), (92, 34957), (94, 34963), (99, 34987), (102, 35005), (108, 35035), (114, 35068), (124, 35104), (147, 35218),

Gene: ChaChing_42 Start: 38025, Stop: 38750, Start Num: 6
Candidate Starts for ChaChing_42:
(1, 37911), (Start: 6 @38025 has 101 MA's), (21, 38097), (55, 38244), (59, 38259), (69, 38322), (72, 38340), (73, 38343), (113, 38514), (114, 38517), (158, 38739),

Gene: Chalmers_42 Start: 38817, Stop: 39542, Start Num: 6
Candidate Starts for Chalmers_42:
(1, 38703), (Start: 6 @38817 has 101 MA's), (21, 38889), (55, 39036), (59, 39051), (69, 39114), (72, 39132), (73, 39135), (113, 39306), (114, 39309), (158, 39531),

Gene: Chandler_42 Start: 38793, Stop: 39518, Start Num: 6
Candidate Starts for Chandler_42:
(1, 38679), (Start: 6 @38793 has 101 MA's), (21, 38865), (55, 39012), (59, 39027), (69, 39090), (72, 39108), (73, 39111), (113, 39282), (114, 39285), (158, 39507),

Gene: CharlottesWeb_35 Start: 30386, Stop: 31075, Start Num: 7
Candidate Starts for CharlottesWeb_35:
(Start: 7 @30386 has 37 MA's), (47, 30539), (53, 30578), (63, 30626), (65, 30647), (101, 30779), (108, 30815), (110, 30824), (113, 30842), (114, 30845), (115, 30851), (135, 30935), (145, 30977),

Gene: Chentzyk_42 Start: 38374, Stop: 39099, Start Num: 6
Candidate Starts for Chentzyk_42:
(1, 38260), (Start: 6 @38374 has 101 MA's), (21, 38446), (55, 38593), (59, 38608), (69, 38671), (72, 38689), (73, 38692), (113, 38863), (114, 38866), (158, 39088),

Gene: Chickadee_37 Start: 33101, Stop: 33805, Start Num: 7
Candidate Starts for Chickadee_37:
(Start: 7 @33101 has 37 MA's), (27, 33188), (31, 33197), (95, 33464), (99, 33482), (101, 33494), (116, 33572), (119, 33581), (123, 33596), (144, 33689),

Gene: Chikenjars_10 Start: 5212, Stop: 5856, Start Num: 24
Candidate Starts for Chikenjars_10:
(15, 5176), (Start: 24 @5212 has 20 MA's), (27, 5221), (45, 5278), (46, 5281), (48, 5296), (65, 5389), (84, 5464), (93, 5503), (105, 5560), (138, 5698), (156, 5815), (161, 5839),

Gene: Cleo_28 Start: 23262, Stop: 23966, Start Num: 7
Candidate Starts for Cleo_28:
(Start: 7 @23262 has 37 MA's), (8, 23268), (13, 23298), (26, 23346), (54, 23460), (70, 23538), (95, 23625), (99, 23643), (101, 23655), (119, 23742), (123, 23757), (144, 23850),

Gene: CloverMinnie_37 Start: 32326, Stop: 33018, Start Num: 7
Candidate Starts for CloverMinnie_37:
(Start: 7 @32326 has 37 MA's), (42, 32461), (53, 32521), (70, 32611), (114, 32788), (123, 32821), (126, 32830), (129, 32848), (135, 32878), (137, 32881), (143, 32911), (149, 32944),

Gene: Coco2012_35 Start: 30383, Stop: 31072, Start Num: 7
Candidate Starts for Coco2012_35:
(Start: 7 @30383 has 37 MA's), (47, 30536), (53, 30575), (65, 30644), (101, 30776), (108, 30812), (110, 30821), (114, 30842), (115, 30848), (135, 30932), (145, 30974),

Gene: Coffee_43 Start: 38648, Stop: 39343, Start Num: 6
Candidate Starts for Coffee_43:
(Start: 6 @38648 has 101 MA's), (59, 38858), (62, 38873), (78, 38951), (92, 39008), (106, 39074), (108, 39083), (110, 39092), (114, 39113), (137, 39206), (148, 39266), (152, 39290), (157, 39329),

Gene: Coldpizza_38 Start: 34838, Stop: 35533, Start Num: 7
Candidate Starts for Coldpizza_38:
(Start: 7 @34838 has 37 MA's), (8, 34844), (53, 35033), (59, 35060), (87, 35189), (102, 35243), (110, 35282), (114, 35303), (123, 35336), (126, 35345), (127, 35351), (129, 35363), (148, 35456), (149, 35459), (157, 35519),

Gene: Compostia_43 Start: 38441, Stop: 39166, Start Num: 6
Candidate Starts for Compostia_43:
(1, 38327), (Start: 6 @38441 has 101 MA's), (21, 38513), (55, 38660), (59, 38675), (69, 38738), (72, 38756), (73, 38759), (113, 38930), (114, 38933), (158, 39155),

Gene: Corofin_42 Start: 38036, Stop: 38761, Start Num: 6
Candidate Starts for Corofin_42:
(1, 37922), (Start: 6 @38036 has 101 MA's), (21, 38108), (55, 38255), (59, 38270), (69, 38333), (72, 38351), (73, 38354), (113, 38525), (114, 38528), (158, 38750),

Gene: D12_32 Start: 35158, Stop: 35868, Start Num: 6
Candidate Starts for D12_32:
(Start: 6 @35158 has 101 MA's), (14, 35197), (37, 35269), (40, 35284), (53, 35347), (62, 35389), (70, 35437), (92, 35527), (94, 35533), (99, 35557), (102, 35575), (108, 35605), (114, 35638), (124, 35674), (147, 35788),

Gene: Daisy_42 Start: 38037, Stop: 38762, Start Num: 6
Candidate Starts for Daisy_42:
(1, 37923), (Start: 6 @38037 has 101 MA's), (21, 38109), (55, 38256), (59, 38271), (69, 38334), (72, 38352), (73, 38355), (113, 38526), (114, 38529), (158, 38751),

Gene: Deenasa_42 Start: 38772, Stop: 39497, Start Num: 6
Candidate Starts for Deenasa_42:
(1, 38658), (Start: 6 @38772 has 101 MA's), (21, 38844), (55, 38991), (59, 39006), (69, 39069), (72, 39087), (73, 39090), (113, 39261), (114, 39264), (158, 39486),

Gene: Devonte_42 Start: 38001, Stop: 38726, Start Num: 6
Candidate Starts for Devonte_42:
(1, 37887), (Start: 6 @38001 has 101 MA's), (21, 38073), (55, 38220), (59, 38235), (69, 38298), (72, 38316), (73, 38319), (113, 38490), (114, 38493), (158, 38715),

Gene: Dori_37 Start: 34528, Stop: 35232, Start Num: 7

Candidate Starts for Dori_37:
(Start: 7 @34528 has 37 MA's), (21, 34591), (25, 34606), (36, 34630), (56, 34732), (58, 34738), (65, 34786), (92, 34894), (102, 34939), (103, 34945), (108, 34969), (123, 35035), (125, 35041), (128, 35053), (131, 35071), (149, 35158), (150, 35161),

Gene: Dre3_28 Start: 23188, Stop: 23892, Start Num: 7
Candidate Starts for Dre3_28:
(Start: 7 @23188 has 37 MA's), (8, 23194), (13, 23224), (54, 23386), (70, 23464), (95, 23551), (99, 23569), (101, 23581), (119, 23668), (123, 23683), (144, 23776),

Gene: Duffington_10 Start: 5197, Stop: 5841, Start Num: 24
Candidate Starts for Duffington_10:
(15, 5161), (Start: 24 @5197 has 20 MA's), (27, 5206), (45, 5263), (46, 5266), (48, 5281), (65, 5374), (84, 5449), (93, 5488), (105, 5545), (138, 5683), (156, 5800), (161, 5824),

Gene: E3_gp90 Start: 51623, Stop: 52363, Start Num: 10
Candidate Starts for E3_gp90:
(2, 51557), (10, 51623), (82, 51950), (83, 51953), (84, 51956), (102, 52043), (120, 52136), (126, 52154), (138, 52202), (155, 52313),

Gene: Eaglehorse_43 Start: 38572, Stop: 39267, Start Num: 6
Candidate Starts for Eaglehorse_43:
(Start: 6 @38572 has 101 MA's), (59, 38782), (62, 38797), (78, 38875), (92, 38932), (106, 38998), (108, 39007), (110, 39016), (114, 39037), (137, 39130), (148, 39190), (152, 39214), (157, 39253),

Gene: Eddiemania_9 Start: 4403, Stop: 5047, Start Num: 24
Candidate Starts for Eddiemania_9:
(15, 4367), (Start: 24 @4403 has 20 MA's), (46, 4472), (48, 4487), (65, 4580), (67, 4592), (84, 4655), (93, 4694), (105, 4751), (138, 4889), (156, 5006), (161, 5030),

Gene: EdmundFerry_36 Start: 33130, Stop: 33834, Start Num: 7
Candidate Starts for EdmundFerry_36:
(Start: 7 @33130 has 37 MA's), (27, 33217), (31, 33226), (95, 33493), (99, 33511), (101, 33523), (116, 33601), (119, 33610), (123, 33625), (144, 33718),

Gene: EndAve_10 Start: 5212, Stop: 5856, Start Num: 24
Candidate Starts for EndAve_10:
(15, 5176), (Start: 24 @5212 has 20 MA's), (27, 5221), (45, 5278), (46, 5281), (48, 5296), (65, 5389), (84, 5464), (93, 5503), (105, 5560), (138, 5698), (156, 5815), (161, 5839),

Gene: Evaa_35 Start: 31206, Stop: 31898, Start Num: 7
Candidate Starts for Evaa_35:
(Start: 7 @31206 has 37 MA's), (36, 31308), (42, 31338), (53, 31398), (58, 31419), (59, 31425), (69, 31485), (70, 31488), (101, 31602), (108, 31638), (114, 31668), (123, 31701), (144, 31794), (157, 31884),

Gene: Faze9_42 Start: 38668, Stop: 39363, Start Num: 6
Candidate Starts for Faze9_42:
(Start: 6 @38668 has 101 MA's), (59, 38878), (62, 38893), (78, 38971), (92, 39028), (106, 39094), (108, 39103), (110, 39112), (114, 39133), (137, 39226), (148, 39286), (152, 39310), (157, 39349),

Gene: Fazel_7 Start: 3942, Stop: 4586, Start Num: 24
Candidate Starts for Fazel_7:

(Start: 24 @3942 has 20 MA's), (46, 4011), (48, 4026), (65, 4119), (93, 4233), (105, 4290), (140, 4452), (141, 4455), (156, 4545), (161, 4569),

Gene: FelixTres_37 Start: 32389, Stop: 33081, Start Num: 7
Candidate Starts for FelixTres_37:
(Start: 7 @32389 has 37 MA's), (42, 32524), (53, 32584), (70, 32674), (114, 32851), (123, 32884), (129, 32911), (135, 32941), (137, 32944), (143, 32974), (149, 33007),

Gene: Figliar_10 Start: 5221, Stop: 5865, Start Num: 24
Candidate Starts for Figliar_10:
(15, 5185), (Start: 24 @5221 has 20 MA's), (45, 5287), (46, 5290), (48, 5305), (65, 5398), (67, 5410), (84, 5473), (93, 5512), (105, 5569), (138, 5707), (156, 5824), (161, 5848),

Gene: Finch_34 Start: 28684, Stop: 29307, Start Num: 18
Candidate Starts for Finch_34:
(Start: 18 @28684 has 1 MA's), (22, 28690), (30, 28717), (39, 28750), (56, 28828), (70, 28891), (74, 28912), (118, 29086), (123, 29107), (133, 29158),

Gene: FrenchFry_43 Start: 38662, Stop: 39357, Start Num: 6
Candidate Starts for FrenchFry_43:
(Start: 6 @38662 has 101 MA's), (59, 38872), (62, 38887), (78, 38965), (92, 39022), (106, 39088), (108, 39097), (110, 39106), (114, 39127), (137, 39220), (148, 39280), (152, 39304), (157, 39343),

Gene: Fresco_35 Start: 30447, Stop: 31139, Start Num: 7
Candidate Starts for Fresco_35:
(Start: 7 @30447 has 37 MA's), (13, 30483), (53, 30642), (58, 30663), (79, 30765), (95, 30819), (97, 30825), (99, 30831), (105, 30867), (110, 30888), (113, 30906), (114, 30909), (135, 30999), (145, 31041), (156, 31116),

Gene: GTE6_37 Start: 33622, Stop: 34326, Start Num: 7
Candidate Starts for GTE6_37:
(Start: 7 @33622 has 37 MA's), (27, 33709), (31, 33718), (54, 33820), (95, 33985), (99, 34003), (101, 34015), (116, 34093), (119, 34102), (123, 34117), (144, 34210),

Gene: Gadjet_43 Start: 38024, Stop: 38749, Start Num: 6
Candidate Starts for Gadjet_43:
(1, 37910), (Start: 6 @38024 has 101 MA's), (21, 38096), (55, 38243), (59, 38258), (69, 38321), (72, 38339), (73, 38342), (113, 38513), (114, 38516), (158, 38738),

Gene: Gervas_42 Start: 37991, Stop: 38716, Start Num: 6
Candidate Starts for Gervas_42:
(1, 37877), (Start: 6 @37991 has 101 MA's), (21, 38063), (55, 38210), (59, 38225), (69, 38288), (72, 38306), (73, 38309), (113, 38480), (114, 38483), (158, 38705),

Gene: Gibbous_28 Start: 23188, Stop: 23892, Start Num: 7
Candidate Starts for Gibbous_28:
(Start: 7 @23188 has 37 MA's), (8, 23194), (13, 23224), (54, 23386), (70, 23464), (95, 23551), (99, 23569), (101, 23581), (119, 23668), (123, 23683), (144, 23776), (151, 23824),

Gene: Glass_43 Start: 38662, Stop: 39357, Start Num: 6
Candidate Starts for Glass_43:
(Start: 6 @38662 has 101 MA's), (59, 38872), (62, 38887), (78, 38965), (92, 39022), (106, 39088), (108, 39097), (110, 39106), (114, 39127), (137, 39220), (148, 39280), (152, 39304), (157, 39343),

Gene: GlenHope_43 Start: 38004, Stop: 38729, Start Num: 6
Candidate Starts for GlenHope_43:
(1, 37890), (Start: 6 @38004 has 101 MA's), (21, 38076), (55, 38223), (59, 38238), (69, 38301), (72, 38319), (73, 38322), (113, 38493), (114, 38496), (158, 38718),

Gene: Glintora_9 Start: 5212, Stop: 5856, Start Num: 24
Candidate Starts for Glintora_9:
(15, 5176), (Start: 24 @5212 has 20 MA's), (27, 5221), (45, 5278), (46, 5281), (48, 5296), (65, 5389), (84, 5464), (93, 5503), (105, 5560), (138, 5698), (156, 5815), (161, 5839),

Gene: Glubnar_43 Start: 38003, Stop: 38728, Start Num: 6
Candidate Starts for Glubnar_43:
(1, 37889), (Start: 6 @38003 has 101 MA's), (21, 38075), (55, 38222), (59, 38237), (69, 38300), (72, 38318), (73, 38321), (113, 38492), (114, 38495), (158, 38717),

Gene: GodPhather_34 Start: 35352, Stop: 36062, Start Num: 6
Candidate Starts for GodPhather_34:
(Start: 6 @35352 has 101 MA's), (14, 35391), (37, 35463), (40, 35478), (53, 35541), (62, 35583), (70, 35631), (92, 35721), (94, 35727), (99, 35751), (102, 35769), (108, 35799), (114, 35832), (124, 35868), (147, 35982),

Gene: Godines_43 Start: 38604, Stop: 39299, Start Num: 6
Candidate Starts for Godines_43:
(Start: 6 @38604 has 101 MA's), (59, 38814), (62, 38829), (78, 38907), (92, 38964), (106, 39030), (108, 39039), (110, 39048), (114, 39069), (124, 39105), (137, 39162), (148, 39222), (152, 39246), (157, 39285),

Gene: Halfpint_41 Start: 37830, Stop: 38555, Start Num: 6
Candidate Starts for Halfpint_41:
(1, 37716), (Start: 6 @37830 has 101 MA's), (21, 37902), (55, 38049), (59, 38064), (69, 38127), (72, 38145), (73, 38148), (113, 38319), (114, 38322), (158, 38544),

Gene: HarveySr_42 Start: 37997, Stop: 38722, Start Num: 6
Candidate Starts for HarveySr_42:
(1, 37883), (Start: 6 @37997 has 101 MA's), (21, 38069), (55, 38216), (59, 38231), (69, 38294), (72, 38312), (73, 38315), (113, 38486), (114, 38489), (158, 38711),

Gene: Heathcliff_42 Start: 37975, Stop: 38700, Start Num: 6
Candidate Starts for Heathcliff_42:
(1, 37861), (Start: 6 @37975 has 101 MA's), (21, 38047), (55, 38194), (59, 38209), (69, 38272), (72, 38290), (73, 38293), (113, 38464), (114, 38467), (158, 38689),

Gene: Hedgerow_43 Start: 38644, Stop: 39339, Start Num: 6
Candidate Starts for Hedgerow_43:
(Start: 6 @38644 has 101 MA's), (59, 38854), (62, 38869), (78, 38947), (92, 39004), (106, 39070), (108, 39079), (110, 39088), (114, 39109), (137, 39202), (148, 39262), (152, 39286), (157, 39325),

Gene: Holeinone_43 Start: 38524, Stop: 39219, Start Num: 6
Candidate Starts for Holeinone_43:
(Start: 6 @38524 has 101 MA's), (59, 38734), (62, 38749), (78, 38827), (92, 38884), (106, 38950), (108, 38959), (110, 38968), (114, 38989), (137, 39082), (148, 39142), (152, 39166), (157, 39205),

Gene: ItsyBitsy1_43 Start: 38526, Stop: 39221, Start Num: 6
Candidate Starts for ItsyBitsy1_43:
(Start: 6 @38526 has 101 MA's), (59, 38736), (62, 38751), (78, 38829), (92, 38886), (106, 38952), (108, 38961), (110, 38970), (114, 38991), (137, 39084), (148, 39144), (152, 39168), (157, 39207),

Gene: Jackstina_39 Start: 37934, Stop: 38659, Start Num: 6
Candidate Starts for Jackstina_39:
(1, 37820), (Start: 6 @37934 has 101 MA's), (21, 38006), (55, 38153), (59, 38168), (69, 38231), (72, 38249), (73, 38252), (113, 38423), (114, 38426), (158, 38648),

Gene: JellyBelly_35 Start: 30389, Stop: 31078, Start Num: 7
Candidate Starts for JellyBelly_35:
(Start: 7 @30389 has 37 MA's), (47, 30542), (53, 30581), (63, 30629), (65, 30650), (101, 30782), (108, 30818), (110, 30827), (113, 30845), (114, 30848), (115, 30854), (135, 30938), (145, 30980),

Gene: Jeon_33 Start: 35094, Stop: 35804, Start Num: 6
Candidate Starts for Jeon_33:
(Start: 6 @35094 has 101 MA's), (14, 35133), (37, 35205), (40, 35220), (53, 35283), (62, 35325), (70, 35373), (92, 35463), (94, 35469), (99, 35493), (102, 35511), (108, 35541), (114, 35574), (124, 35610), (147, 35724),

Gene: Jodelie19_10 Start: 5215, Stop: 5859, Start Num: 24
Candidate Starts for Jodelie19_10:
(15, 5179), (Start: 24 @5215 has 20 MA's), (46, 5284), (48, 5299), (65, 5392), (67, 5404), (84, 5467), (93, 5506), (105, 5563), (138, 5701), (156, 5818), (161, 5842),

Gene: JohnLord_38 Start: 34641, Stop: 35345, Start Num: 7
Candidate Starts for JohnLord_38:
(Start: 7 @34641 has 37 MA's), (21, 34704), (25, 34719), (36, 34743), (56, 34845), (58, 34851), (65, 34899), (92, 35007), (102, 35052), (103, 35058), (108, 35082), (123, 35148), (125, 35154), (128, 35166), (131, 35184), (149, 35271), (150, 35274),

Gene: Kaleb_43 Start: 38659, Stop: 39354, Start Num: 6
Candidate Starts for Kaleb_43:
(Start: 6 @38659 has 101 MA's), (59, 38869), (62, 38884), (78, 38962), (92, 39019), (106, 39085), (108, 39094), (110, 39103), (114, 39124), (137, 39217), (148, 39277), (152, 39301), (157, 39340),

Gene: Kamiyu_42 Start: 37983, Stop: 38708, Start Num: 6
Candidate Starts for Kamiyu_42:
(1, 37869), (Start: 6 @37983 has 101 MA's), (21, 38055), (55, 38202), (59, 38217), (69, 38280), (72, 38298), (73, 38301), (113, 38472), (114, 38475), (158, 38697),

Gene: Kheth_43 Start: 38547, Stop: 39242, Start Num: 6
Candidate Starts for Kheth_43:
(Start: 6 @38547 has 101 MA's), (59, 38757), (62, 38772), (78, 38850), (92, 38907), (106, 38973), (108, 38982), (110, 38991), (114, 39012), (137, 39105), (148, 39165), (152, 39189), (157, 39228),

Gene: Kolhan_43 Start: 38538, Stop: 39233, Start Num: 6
Candidate Starts for Kolhan_43:
(Start: 6 @38538 has 101 MA's), (59, 38748), (62, 38763), (78, 38841), (92, 38898), (106, 38964), (108, 38973), (110, 38982), (114, 39003), (137, 39096), (148, 39156), (152, 39180), (157, 39219),

Gene: Kronus_41 Start: 38593, Stop: 39318, Start Num: 6

Candidate Starts for Kronus_41:
(1, 38479), (Start: 6 @38593 has 101 MA's), (21, 38665), (55, 38812), (59, 38827), (69, 38890), (72, 38908), (73, 38911), (113, 39082), (114, 39085), (158, 39307),

Gene: Kwekel_37 Start: 33062, Stop: 33766, Start Num: 7
Candidate Starts for Kwekel_37:
(Start: 7 @33062 has 37 MA's), (27, 33149), (31, 33158), (95, 33425), (99, 33443), (101, 33455), (116, 33533), (119, 33542), (123, 33557), (144, 33650),

Gene: Lars_43 Start: 38649, Stop: 39344, Start Num: 6
Candidate Starts for Lars_43:
(Start: 6 @38649 has 101 MA's), (59, 38859), (62, 38874), (78, 38952), (92, 39009), (106, 39075), (108, 39084), (110, 39093), (114, 39114), (137, 39207), (148, 39267), (152, 39291), (157, 39330),

Gene: Laurie_42 Start: 38048, Stop: 38743, Start Num: 6
Candidate Starts for Laurie_42:
(Start: 6 @38048 has 101 MA's), (59, 38258), (62, 38273), (78, 38351), (92, 38408), (106, 38474), (108, 38483), (110, 38492), (114, 38513), (137, 38606), (148, 38666), (152, 38690), (157, 38729),

Gene: Lephleur_43 Start: 38542, Stop: 39237, Start Num: 6
Candidate Starts for Lephleur_43:
(Start: 6 @38542 has 101 MA's), (59, 38752), (62, 38767), (78, 38845), (92, 38902), (106, 38968), (108, 38977), (110, 38986), (114, 39007), (137, 39100), (148, 39160), (152, 39184), (157, 39223),

Gene: LestyG_42 Start: 38014, Stop: 38739, Start Num: 6
Candidate Starts for LestyG_42:
(1, 37900), (Start: 6 @38014 has 101 MA's), (21, 38086), (55, 38233), (59, 38248), (69, 38311), (72, 38329), (73, 38332), (113, 38503), (114, 38506), (158, 38728),

Gene: Ligma_35 Start: 30447, Stop: 31139, Start Num: 7
Candidate Starts for Ligma_35:
(Start: 7 @30447 has 37 MA's), (13, 30483), (53, 30642), (58, 30663), (79, 30765), (95, 30819), (97, 30825), (99, 30831), (105, 30867), (110, 30888), (113, 30906), (114, 30909), (135, 30999), (145, 31041), (156, 31116),

Gene: LilSmirk_43 Start: 38536, Stop: 39231, Start Num: 6
Candidate Starts for LilSmirk_43:
(Start: 6 @38536 has 101 MA's), (59, 38746), (62, 38761), (78, 38839), (92, 38896), (106, 38962), (108, 38971), (110, 38980), (114, 39001), (137, 39094), (148, 39154), (152, 39178), (157, 39217),

Gene: LittleMunchkin_37 Start: 33864, Stop: 34556, Start Num: 7
Candidate Starts for LittleMunchkin_37:
(Start: 7 @33864 has 37 MA's), (13, 33900), (79, 34182), (95, 34236), (99, 34248), (105, 34284), (110, 34305), (112, 34320), (142, 34446),

Gene: LizLemon_43 Start: 38658, Stop: 39353, Start Num: 6
Candidate Starts for LizLemon_43:
(Start: 6 @38658 has 101 MA's), (59, 38868), (62, 38883), (78, 38961), (92, 39018), (106, 39084), (108, 39093), (110, 39102), (114, 39123), (137, 39216), (148, 39276), (152, 39300), (157, 39339),

Gene: Luthien_10 Start: 5213, Stop: 5857, Start Num: 24
Candidate Starts for Luthien_10:

(15, 5177), (Start: 24 @5213 has 20 MA's), (27, 5222), (45, 5279), (46, 5282), (48, 5297), (65, 5390), (84, 5465), (93, 5504), (105, 5561), (138, 5699), (156, 5816), (161, 5840),

Gene: MajinBuu_10 Start: 5215, Stop: 5859, Start Num: 24
Candidate Starts for MajinBuu_10:
(15, 5179), (Start: 24 @5215 has 20 MA's), (46, 5284), (48, 5299), (65, 5392), (67, 5404), (84, 5467), (93, 5506), (105, 5563), (138, 5701), (156, 5818), (161, 5842),

Gene: MakoManhole_37 Start: 32404, Stop: 33096, Start Num: 7
Candidate Starts for MakoManhole_37:
(Start: 7 @32404 has 37 MA's), (42, 32539), (53, 32599), (70, 32689), (114, 32866), (123, 32899), (129, 32926), (135, 32956), (137, 32959), (143, 32989), (149, 33022),

Gene: Mao1_35 Start: 34444, Stop: 35148, Start Num: 7
Candidate Starts for Mao1_35:
(Start: 7 @34444 has 37 MA's), (21, 34507), (25, 34522), (36, 34546), (56, 34648), (58, 34654), (65, 34702), (92, 34810), (102, 34855), (103, 34861), (108, 34885), (125, 34957), (128, 34969), (131, 34987), (149, 35074), (150, 35077),

Gene: Mariokart_35 Start: 30385, Stop: 31074, Start Num: 7
Candidate Starts for Mariokart_35:
(Start: 7 @30385 has 37 MA's), (47, 30538), (53, 30577), (63, 30625), (65, 30646), (101, 30778), (108, 30814), (110, 30823), (113, 30841), (114, 30844), (115, 30850), (135, 30934), (145, 30976),

Gene: Marley1013_42 Start: 38792, Stop: 39517, Start Num: 6
Candidate Starts for Marley1013_42:
(1, 38678), (Start: 6 @38792 has 101 MA's), (21, 38864), (55, 39011), (59, 39026), (69, 39089), (72, 39107), (73, 39110), (113, 39281), (114, 39284), (158, 39506),

Gene: Marlia_42 Start: 37995, Stop: 38720, Start Num: 6
Candidate Starts for Marlia_42:
(1, 37881), (Start: 6 @37995 has 101 MA's), (21, 38067), (55, 38214), (59, 38229), (69, 38292), (72, 38310), (73, 38313), (113, 38484), (114, 38487), (158, 38709),

Gene: Mask_36 Start: 34437, Stop: 35141, Start Num: 7
Candidate Starts for Mask_36:
(Start: 7 @34437 has 37 MA's), (21, 34500), (25, 34515), (36, 34539), (56, 34641), (58, 34647), (65, 34695), (92, 34803), (102, 34848), (103, 34854), (108, 34878), (123, 34944), (125, 34950), (128, 34962), (131, 34980), (149, 35067), (150, 35070),

Gene: MasterPo_43 Start: 38545, Stop: 39240, Start Num: 6
Candidate Starts for MasterPo_43:
(Start: 6 @38545 has 101 MA's), (59, 38755), (62, 38770), (78, 38848), (92, 38905), (106, 38971), (108, 38980), (110, 38989), (114, 39010), (137, 39103), (148, 39163), (152, 39187), (157, 39226),

Gene: Mbo4_23 Start: 22116, Stop: 22823, Start Num: 9
Candidate Starts for Mbo4_23:
(9, 22116), (11, 22128), (19, 22164), (66, 22389), (77, 22434), (117, 22614), (124, 22638), (136, 22692), (142, 22713), (150, 22752),

Gene: Megabear_33 Start: 34531, Stop: 35241, Start Num: 6
Candidate Starts for Megabear_33:

(Start: 6 @34531 has 101 MA's), (14, 34570), (37, 34642), (40, 34657), (53, 34720), (62, 34762), (70, 34810), (92, 34900), (94, 34906), (99, 34930), (102, 34948), (108, 34978), (114, 35011), (124, 35047), (147, 35161),

Gene: MmasiCarm_42 Start: 37996, Stop: 38721, Start Num: 6
Candidate Starts for MmasiCarm_42:
(1, 37882), (Start: 6 @37996 has 101 MA's), (21, 38068), (55, 38215), (59, 38230), (69, 38293), (72, 38311), (73, 38314), (113, 38485), (114, 38488), (158, 38710),

Gene: Mortcellus_41 Start: 38648, Stop: 39373, Start Num: 6
Candidate Starts for Mortcellus_41:
(1, 38534), (Start: 6 @38648 has 101 MA's), (21, 38720), (55, 38867), (59, 38882), (69, 38945), (72, 38963), (73, 38966), (113, 39137), (114, 39140), (158, 39362),

Gene: Morty007_42 Start: 38792, Stop: 39517, Start Num: 6
Candidate Starts for Morty007_42:
(1, 38678), (Start: 6 @38792 has 101 MA's), (21, 38864), (55, 39011), (59, 39026), (69, 39089), (72, 39107), (73, 39110), (113, 39281), (114, 39284), (158, 39506),

Gene: MossRose_37 Start: 32383, Stop: 33075, Start Num: 7
Candidate Starts for MossRose_37:
(Start: 7 @32383 has 37 MA's), (42, 32518), (53, 32578), (70, 32668), (114, 32845), (123, 32878), (129, 32905), (135, 32935), (137, 32938), (143, 32968), (149, 33001),

Gene: Mossy_7 Start: 3064, Stop: 3714, Start Num: 24
Candidate Starts for Mossy_7:
(15, 3028), (Start: 24 @3064 has 20 MA's), (42, 3124), (49, 3157), (65, 3247), (70, 3268), (76, 3292), (81, 3313), (84, 3322), (88, 3340), (98, 3382), (105, 3418), (126, 3505),

Gene: Mulaychimus_42 Start: 37978, Stop: 38703, Start Num: 6
Candidate Starts for Mulaychimus_42:
(1, 37864), (Start: 6 @37978 has 101 MA's), (21, 38050), (55, 38197), (59, 38212), (69, 38275), (72, 38293), (73, 38296), (113, 38467), (114, 38470), (158, 38692),

Gene: NHagos_35 Start: 30942, Stop: 31637, Start Num: 7
Candidate Starts for NHagos_35:
(Start: 7 @30942 has 37 MA's), (36, 31047), (53, 31137), (70, 31227), (79, 31260), (92, 31302), (101, 31341), (105, 31365), (113, 31404), (114, 31407), (126, 31449), (129, 31467), (135, 31497), (143, 31530), (149, 31563),

Gene: Neos5_42 Start: 38807, Stop: 39532, Start Num: 6
Candidate Starts for Neos5_42:
(1, 38693), (Start: 6 @38807 has 101 MA's), (21, 38879), (55, 39026), (59, 39041), (69, 39104), (72, 39122), (73, 39125), (113, 39296), (114, 39299), (158, 39521),

Gene: NiceHouse_195 Start: 108486, Stop: 107845, Start Num: 20
Candidate Starts for NiceHouse_195:
(5, 108555), (Start: 20 @108486 has 1 MA's), (28, 108459), (41, 108414), (43, 108399), (60, 108312), (75, 108234), (80, 108213), (89, 108180), (103, 108123), (107, 108102),

Gene: Nithya_10 Start: 5212, Stop: 5856, Start Num: 24
Candidate Starts for Nithya_10:

(15, 5176), (Start: 24 @5212 has 20 MA's), (27, 5221), (45, 5278), (46, 5281), (48, 5296), (65, 5389), (84, 5464), (93, 5503), (105, 5560), (138, 5698), (156, 5815), (161, 5839),

Gene: Nozo_42 Start: 38772, Stop: 39497, Start Num: 6
Candidate Starts for Nozo_42:
(1, 38658), (Start: 6 @38772 has 101 MA's), (21, 38844), (55, 38991), (59, 39006), (69, 39069), (72, 39087), (73, 39090), (113, 39261), (114, 39264), (158, 39486),

Gene: Obutu_42 Start: 37996, Stop: 38721, Start Num: 6
Candidate Starts for Obutu_42:
(1, 37882), (Start: 6 @37996 has 101 MA's), (21, 38068), (55, 38215), (59, 38230), (69, 38293), (72, 38311), (73, 38314), (113, 38485), (114, 38488), (158, 38710),

Gene: OlgasClover_10 Start: 5212, Stop: 5856, Start Num: 24
Candidate Starts for OlgasClover_10:
(15, 5176), (Start: 24 @5212 has 20 MA's), (46, 5281), (48, 5296), (65, 5389), (67, 5401), (84, 5464), (93, 5503), (105, 5560), (138, 5698), (156, 5815), (161, 5839),

Gene: Olivio_41 Start: 37865, Stop: 38590, Start Num: 6
Candidate Starts for Olivio_41:
(1, 37751), (Start: 6 @37865 has 101 MA's), (21, 37937), (55, 38084), (59, 38099), (69, 38162), (72, 38180), (73, 38183), (113, 38354), (114, 38357), (158, 38579),

Gene: Opia_43 Start: 38531, Stop: 39226, Start Num: 6
Candidate Starts for Opia_43:
(Start: 6 @38531 has 101 MA's), (59, 38741), (62, 38756), (78, 38834), (92, 38891), (106, 38957), (108, 38966), (110, 38975), (114, 38996), (137, 39089), (148, 39149), (152, 39173), (157, 39212),

Gene: OrangeOswald_42 Start: 38013, Stop: 38738, Start Num: 6
Candidate Starts for OrangeOswald_42:
(1, 37899), (Start: 6 @38013 has 101 MA's), (21, 38085), (55, 38232), (59, 38247), (69, 38310), (72, 38328), (73, 38331), (113, 38502), (114, 38505), (158, 38727),

Gene: PR_33 Start: 35135, Stop: 35845, Start Num: 6
Candidate Starts for PR_33:
(Start: 6 @35135 has 101 MA's), (14, 35174), (37, 35246), (40, 35261), (53, 35324), (62, 35366), (70, 35414), (92, 35504), (94, 35510), (99, 35534), (102, 35552), (108, 35582), (114, 35615), (124, 35651), (147, 35765),

Gene: Phaedrus_40 Start: 37933, Stop: 38658, Start Num: 6
Candidate Starts for Phaedrus_40:
(1, 37819), (Start: 6 @37933 has 101 MA's), (21, 38005), (55, 38152), (59, 38167), (69, 38230), (72, 38248), (73, 38251), (113, 38422), (114, 38425), (158, 38647),

Gene: Phantasmagoria_43 Start: 38543, Stop: 39238, Start Num: 6
Candidate Starts for Phantasmagoria_43:
(Start: 6 @38543 has 101 MA's), (59, 38753), (62, 38768), (78, 38846), (92, 38903), (106, 38969), (108, 38978), (110, 38987), (114, 39008), (137, 39101), (148, 39161), (152, 39185), (157, 39224),

Gene: Pharaoh_8 Start: 5337, Stop: 6023, Start Num: 6
Candidate Starts for Pharaoh_8:
(Start: 6 @5337 has 101 MA's), (36, 5436), (61, 5547), (68, 5583), (70, 5589), (81, 5634), (94, 5673), (117, 5793), (122, 5811), (131, 5850), (136, 5874), (144, 5913), (159, 6009),

Gene: Phayeta_43 Start: 37878, Stop: 38603, Start Num: 6
Candidate Starts for Phayeta_43:
(1, 37764), (Start: 6 @37878 has 101 MA's), (21, 37950), (55, 38097), (59, 38112), (69, 38175), (72, 38193), (73, 38196), (113, 38367), (114, 38370), (158, 38592),

Gene: Philly_41 Start: 37864, Stop: 38589, Start Num: 6
Candidate Starts for Philly_41:
(1, 37750), (Start: 6 @37864 has 101 MA's), (21, 37936), (55, 38083), (59, 38098), (69, 38161), (72, 38179), (73, 38182), (113, 38353), (114, 38356), (158, 38578),

Gene: Phlyer_42 Start: 38752, Stop: 39477, Start Num: 6
Candidate Starts for Phlyer_42:
(1, 38638), (Start: 6 @38752 has 101 MA's), (21, 38824), (55, 38971), (59, 38986), (69, 39049), (72, 39067), (73, 39070), (113, 39241), (114, 39244), (158, 39466),

Gene: Pipefish_44 Start: 39405, Stop: 40130, Start Num: 6
Candidate Starts for Pipefish_44:
(1, 39291), (Start: 6 @39405 has 101 MA's), (21, 39477), (55, 39624), (59, 39639), (69, 39702), (72, 39720), (73, 39723), (113, 39894), (114, 39897), (158, 40119),

Gene: PrinceCharming_43 Start: 38651, Stop: 39346, Start Num: 6
Candidate Starts for PrinceCharming_43:
(4, 38636), (Start: 6 @38651 has 101 MA's), (59, 38861), (62, 38876), (78, 38954), (92, 39011), (106, 39077), (108, 39086), (110, 39095), (114, 39116), (137, 39209), (148, 39269), (152, 39293), (157, 39332),

Gene: Qyrzula_40 Start: 38689, Stop: 39384, Start Num: 6
Candidate Starts for Qyrzula_40:
(Start: 6 @38689 has 101 MA's), (62, 38914), (78, 38992), (92, 39049), (106, 39115), (108, 39124), (110, 39133), (114, 39154), (137, 39247), (148, 39307), (152, 39331), (157, 39370),

Gene: RGL3_21 Start: 18648, Stop: 19442, Start Num: 3
Candidate Starts for RGL3_21:
(3, 18648), (12, 18705), (Start: 16 @18726 has 1 MA's), (Start: 18 @18735 has 1 MA's), (33, 18783), (50, 18858), (57, 18909), (68, 18978), (92, 19077),

Gene: RagingRooster_42 Start: 38014, Stop: 38739, Start Num: 6
Candidate Starts for RagingRooster_42:
(1, 37900), (Start: 6 @38014 has 101 MA's), (21, 38086), (55, 38233), (59, 38248), (69, 38311), (72, 38329), (73, 38332), (113, 38503), (114, 38506), (158, 38728),

Gene: Refuge_9 Start: 5854, Stop: 6480, Start Num: 32
Candidate Starts for Refuge_9:
(Start: 32 @5854 has 1 MA's), (34, 5863), (35, 5866), (113, 6235), (121, 6265), (136, 6331), (150, 6403),

Gene: Rhinoforte_43 Start: 38652, Stop: 39347, Start Num: 6
Candidate Starts for Rhinoforte_43:
(Start: 6 @38652 has 101 MA's), (59, 38862), (62, 38877), (78, 38955), (92, 39012), (106, 39078), (108, 39087), (110, 39096), (114, 39117), (137, 39210), (148, 39270), (152, 39294), (157, 39333),

Gene: Rickmore_9 Start: 3777, Stop: 4421, Start Num: 24

Candidate Starts for Rickmore_9:
(15, 3741), (Start: 24 @3777 has 20 MA's), (46, 3846), (65, 3954), (86, 4041), (105, 4125), (138, 4263), (156, 4380), (161, 4404),

Gene: Rita1961_42 Start: 37997, Stop: 38722, Start Num: 6
Candidate Starts for Rita1961_42:
(1, 37883), (Start: 6 @37997 has 101 MA's), (21, 38069), (55, 38216), (59, 38231), (69, 38294), (72, 38312), (73, 38315), (113, 38486), (114, 38489), (158, 38711),

Gene: RoadKill_35 Start: 32625, Stop: 33329, Start Num: 7
Candidate Starts for RoadKill_35:
(Start: 7 @32625 has 37 MA's), (27, 32712), (31, 32721), (95, 32988), (99, 33006), (101, 33018), (116, 33096), (119, 33105), (123, 33120), (144, 33213),

Gene: RomaT_42 Start: 38787, Stop: 39512, Start Num: 6
Candidate Starts for RomaT_42:
(1, 38673), (Start: 6 @38787 has 101 MA's), (21, 38859), (55, 39006), (59, 39021), (69, 39084), (72, 39102), (73, 39105), (113, 39276), (114, 39279), (158, 39501),

Gene: Rosebush_42 Start: 38659, Stop: 39354, Start Num: 6
Candidate Starts for Rosebush_42:
(Start: 6 @38659 has 101 MA's), (59, 38869), (62, 38884), (78, 38962), (92, 39019), (106, 39085), (108, 39094), (110, 39103), (114, 39124), (137, 39217), (148, 39277), (152, 39301), (157, 39340),

Gene: Sabella_42 Start: 38536, Stop: 39231, Start Num: 6
Candidate Starts for Sabella_42:
(Start: 6 @38536 has 101 MA's), (59, 38746), (62, 38761), (78, 38839), (92, 38896), (106, 38962), (108, 38971), (110, 38980), (114, 39001), (137, 39094), (148, 39154), (152, 39178), (157, 39217),

Gene: Schiebs_18 Start: 11642, Stop: 12358, Start Num: 6
Candidate Starts for Schiebs_18:
(Start: 6 @11642 has 101 MA's), (17, 11702), (31, 11741), (64, 11888), (68, 11918), (141, 12233), (150, 12275),

Gene: Schwartz33_10 Start: 5228, Stop: 5884, Start Num: 24
Candidate Starts for Schwartz33_10:
(15, 5195), (Start: 24 @5228 has 20 MA's), (42, 5294), (46, 5309), (52, 5345), (65, 5417), (85, 5495), (90, 5525), (92, 5528), (96, 5543), (105, 5588), (109, 5600), (130, 5699), (148, 5789), (150, 5795), (156, 5843), (161, 5867),

Gene: Secretariat_6 Start: 2831, Stop: 3490, Start Num: 24
Candidate Starts for Secretariat_6:
(Start: 24 @2831 has 20 MA's), (51, 2933), (70, 3038), (74, 3059), (81, 3083), (84, 3092), (92, 3128), (93, 3131), (95, 3140), (98, 3152), (104, 3185), (111, 3224), (140, 3356),

Gene: Sejanus_36 Start: 35378, Stop: 36082, Start Num: 7
Candidate Starts for Sejanus_36:
(Start: 7 @35378 has 37 MA's), (21, 35441), (25, 35456), (36, 35480), (56, 35582), (58, 35588), (65, 35636), (92, 35744), (102, 35789), (103, 35795), (108, 35819), (123, 35885), (125, 35891), (128, 35903), (131, 35921), (149, 36008), (150, 36011),

Gene: Shatter_35 Start: 30447, Stop: 31139, Start Num: 7
Candidate Starts for Shatter_35:

(Start: 7 @30447 has 37 MA's), (13, 30483), (53, 30642), (58, 30663), (79, 30765), (95, 30819), (97, 30825), (99, 30831), (105, 30867), (110, 30888), (113, 30906), (114, 30909), (135, 30999), (145, 31041), (156, 31116),

Gene: Shenandoah_42 Start: 37986, Stop: 38711, Start Num: 6
Candidate Starts for Shenandoah_42:
(1, 37872), (Start: 6 @37986 has 101 MA's), (21, 38058), (55, 38205), (59, 38220), (69, 38283), (72, 38301), (73, 38304), (113, 38475), (114, 38478), (158, 38700),

Gene: Sisko_35 Start: 31297, Stop: 31995, Start Num: 7
Candidate Starts for Sisko_35:
(Start: 7 @31297 has 37 MA's), (65, 31561), (95, 31669), (99, 31681), (101, 31693), (114, 31759),

Gene: SlippinJimmy_42 Start: 38779, Stop: 39504, Start Num: 6
Candidate Starts for SlippinJimmy_42:
(1, 38665), (Start: 6 @38779 has 101 MA's), (21, 38851), (55, 38998), (59, 39013), (69, 39076), (72, 39094), (73, 39097), (113, 39268), (114, 39271), (158, 39493),

Gene: Sour_40 Start: 35182, Stop: 35880, Start Num: 7
Candidate Starts for Sour_40:
(Start: 7 @35182 has 37 MA's), (13, 35218), (65, 35446), (69, 35464), (79, 35500), (95, 35554), (99, 35566), (101, 35578), (108, 35614), (110, 35623), (113, 35641), (140, 35764), (142, 35770),

Gene: SwainyDoc_42 Start: 38008, Stop: 38733, Start Num: 6
Candidate Starts for SwainyDoc_42:
(1, 37894), (Start: 6 @38008 has 101 MA's), (21, 38080), (55, 38227), (59, 38242), (69, 38305), (72, 38323), (73, 38326), (113, 38497), (114, 38500), (158, 38722),

Gene: SynergyX_42 Start: 38014, Stop: 38739, Start Num: 6
Candidate Starts for SynergyX_42:
(1, 37900), (Start: 6 @38014 has 101 MA's), (21, 38086), (55, 38233), (59, 38248), (69, 38311), (72, 38329), (73, 38332), (113, 38503), (114, 38506), (158, 38728),

Gene: TA17A_44 Start: 38526, Stop: 39221, Start Num: 6
Candidate Starts for TA17A_44:
(Start: 6 @38526 has 101 MA's), (59, 38736), (62, 38751), (78, 38829), (92, 38886), (106, 38952), (108, 38961), (110, 38970), (114, 38991), (137, 39084), (148, 39144), (152, 39168), (157, 39207),

Gene: Taptic_33 Start: 34531, Stop: 35241, Start Num: 6
Candidate Starts for Taptic_33:
(Start: 6 @34531 has 101 MA's), (14, 34570), (37, 34642), (40, 34657), (53, 34720), (62, 34762), (70, 34810), (92, 34900), (94, 34906), (99, 34930), (102, 34948), (108, 34978), (114, 35011), (124, 35047), (147, 35161),

Gene: TenaciousP_10 Start: 5215, Stop: 5859, Start Num: 24
Candidate Starts for TenaciousP_10:
(15, 5179), (Start: 24 @5215 has 20 MA's), (46, 5284), (48, 5299), (65, 5392), (67, 5404), (84, 5467), (93, 5506), (105, 5563), (138, 5701), (156, 5818), (161, 5842),

Gene: Tiamoceli_38 Start: 33958, Stop: 34662, Start Num: 7
Candidate Starts for Tiamoceli_38:
(Start: 7 @33958 has 37 MA's), (27, 34045), (31, 34054), (54, 34156), (95, 34321), (99, 34339), (101, 34351), (116, 34429), (119, 34438), (123, 34453), (144, 34546),

Gene: Tinciduntsolum_44 Start: 38664, Stop: 39359, Start Num: 6
Candidate Starts for Tinciduntsolum_44:
(Start: 6 @38664 has 101 MA's), (59, 38874), (62, 38889), (78, 38967), (92, 39024), (106, 39090), (108, 39099), (110, 39108), (114, 39129), (137, 39222), (148, 39282), (152, 39306), (157, 39345),

Gene: TinyTerror_42 Start: 37999, Stop: 38724, Start Num: 6
Candidate Starts for TinyTerror_42:
(1, 37885), (Start: 6 @37999 has 101 MA's), (21, 38071), (55, 38218), (59, 38233), (69, 38296), (72, 38314), (73, 38317), (113, 38488), (114, 38491), (158, 38713),

Gene: Tonaltzin_10 Start: 5215, Stop: 5859, Start Num: 24
Candidate Starts for Tonaltzin_10:
(15, 5179), (Start: 24 @5215 has 20 MA's), (46, 5284), (48, 5299), (65, 5392), (67, 5404), (84, 5467), (93, 5506), (105, 5563), (138, 5701), (156, 5818), (161, 5842),

Gene: Tonitrus_58 Start: 43532, Stop: 44185, Start Num: 16
Candidate Starts for Tonitrus_58:
(Start: 16 @43532 has 1 MA's), (29, 43571), (38, 43601), (44, 43634), (71, 43760), (93, 43847), (100, 43880), (131, 44021), (132, 44024), (138, 44045), (139, 44054), (148, 44108),

Gene: TraderJ_37 Start: 32386, Stop: 33078, Start Num: 7
Candidate Starts for TraderJ_37:
(Start: 7 @32386 has 37 MA's), (53, 32581), (70, 32671), (92, 32746), (105, 32806), (114, 32848), (123, 32881), (129, 32908), (135, 32938), (143, 32971), (149, 33004),

Gene: Tres_43 Start: 38539, Stop: 39234, Start Num: 6
Candidate Starts for Tres_43:
(Start: 6 @38539 has 101 MA's), (59, 38749), (62, 38764), (78, 38842), (92, 38899), (106, 38965), (108, 38974), (110, 38983), (114, 39004), (137, 39097), (148, 39157), (152, 39181), (157, 39220),

Gene: Trina_203 Start: 108919, Stop: 108182, Start Num: 7
Candidate Starts for Trina_203:
(Start: 7 @108919 has 37 MA's), (23, 108850), (70, 108628), (91, 108541), (134, 108340), (142, 108307), (153, 108250), (160, 108205), (162, 108190),

Gene: Twonlo_35 Start: 32576, Stop: 33280, Start Num: 7
Candidate Starts for Twonlo_35:
(Start: 7 @32576 has 37 MA's), (27, 32663), (31, 32672), (95, 32939), (99, 32957), (101, 32969), (116, 33047), (119, 33056), (123, 33071), (144, 33164),

Gene: Tydolla_42 Start: 38748, Stop: 39473, Start Num: 6
Candidate Starts for Tydolla_42:
(1, 38634), (Start: 6 @38748 has 101 MA's), (21, 38820), (55, 38967), (59, 38982), (69, 39045), (72, 39063), (73, 39066), (113, 39237), (114, 39240), (158, 39462),

Gene: Vic9_00042 Start: 39045, Stop: 39740, Start Num: 6
Candidate Starts for Vic9_00042:
(Start: 6 @39045 has 101 MA's), (59, 39255), (62, 39270), (78, 39348), (92, 39405), (106, 39471), (108, 39480), (110, 39489), (114, 39510), (137, 39603), (148, 39663), (152, 39687), (157, 39726),

Gene: West99_43 Start: 38659, Stop: 39354, Start Num: 6
Candidate Starts for West99_43:

(Start: 6 @38659 has 101 MA's), (59, 38869), (62, 38884), (78, 38962), (92, 39019), (106, 39085), (108, 39094), (110, 39103), (114, 39124), (137, 39217), (148, 39277), (152, 39301), (157, 39340),

Gene: Wooper_37 Start: 32392, Stop: 33084, Start Num: 7
Candidate Starts for Wooper_37:
(Start: 7 @32392 has 37 MA's), (53, 32587), (70, 32677), (92, 32752), (105, 32812), (114, 32854), (123, 32887), (129, 32914), (135, 32944), (143, 32977), (149, 33010),

Gene: Yago84_35 Start: 31371, Stop: 32069, Start Num: 7
Candidate Starts for Yago84_35:
(Start: 7 @31371 has 37 MA's), (65, 31635), (95, 31743), (99, 31755), (101, 31767), (114, 31833),

Gene: Yahalom_42 Start: 38024, Stop: 38749, Start Num: 6
Candidate Starts for Yahalom_42:
(1, 37910), (Start: 6 @38024 has 101 MA's), (21, 38096), (55, 38243), (59, 38258), (69, 38321), (72, 38339), (73, 38342), (113, 38513), (114, 38516), (158, 38738),

Gene: Yeshua_37 Start: 32369, Stop: 33061, Start Num: 7
Candidate Starts for Yeshua_37:
(Start: 7 @32369 has 37 MA's), (53, 32564), (70, 32654), (92, 32729), (105, 32789), (114, 32831), (123, 32864), (129, 32891), (135, 32921), (143, 32954), (149, 32987),

Gene: Yinz_42 Start: 38050, Stop: 38775, Start Num: 6
Candidate Starts for Yinz_42:
(1, 37936), (Start: 6 @38050 has 101 MA's), (21, 38122), (55, 38269), (59, 38284), (69, 38347), (72, 38365), (73, 38368), (113, 38539), (114, 38542), (158, 38764),

Gene: Zimmer_8 Start: 5297, Stop: 5980, Start Num: 6
Candidate Starts for Zimmer_8:
(Start: 6 @5297 has 101 MA's), (61, 5507), (94, 5633), (101, 5669), (117, 5753), (131, 5810), (134, 5831), (136, 5834), (144, 5873), (149, 5903), (154, 5936), (160, 5972),