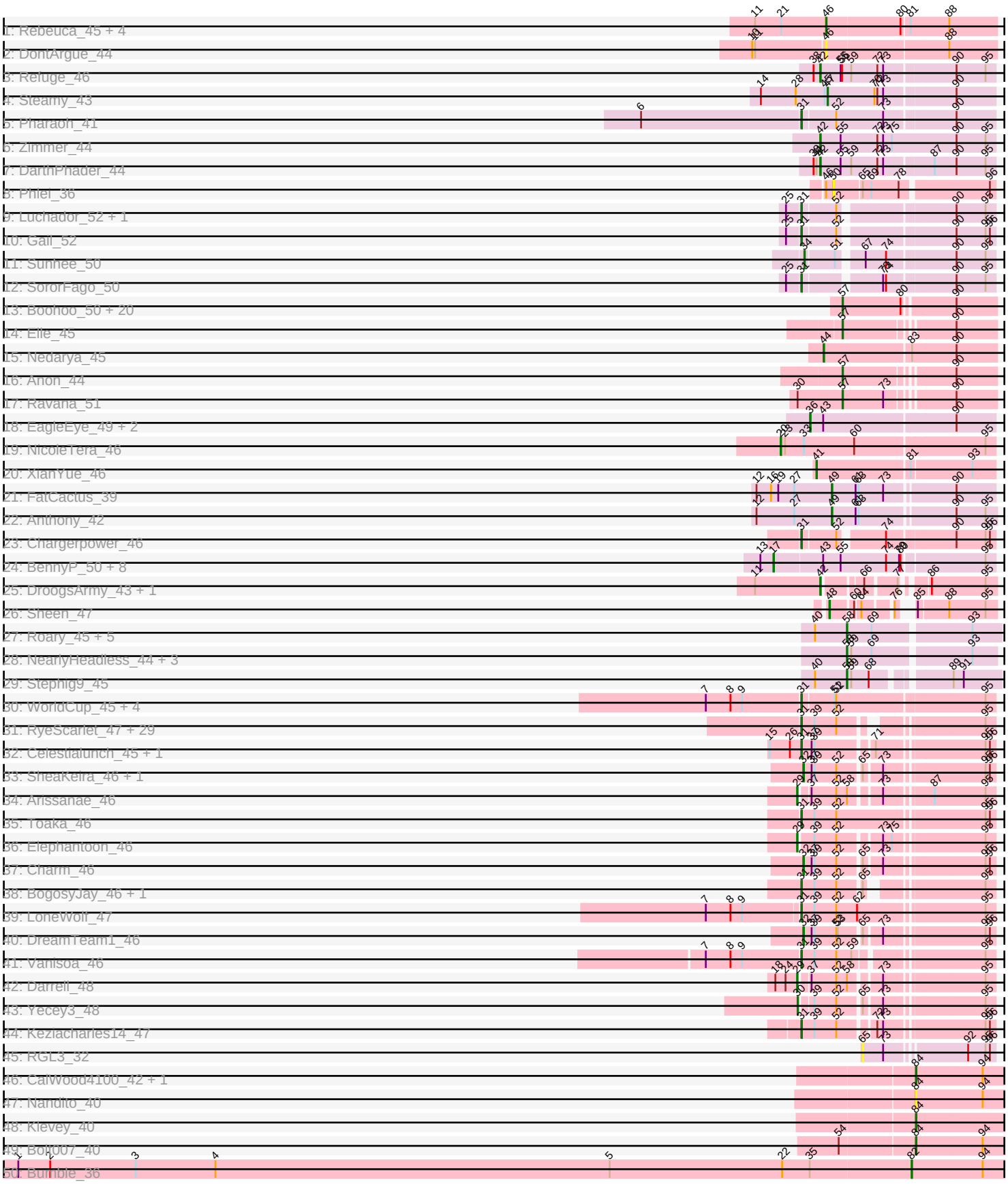
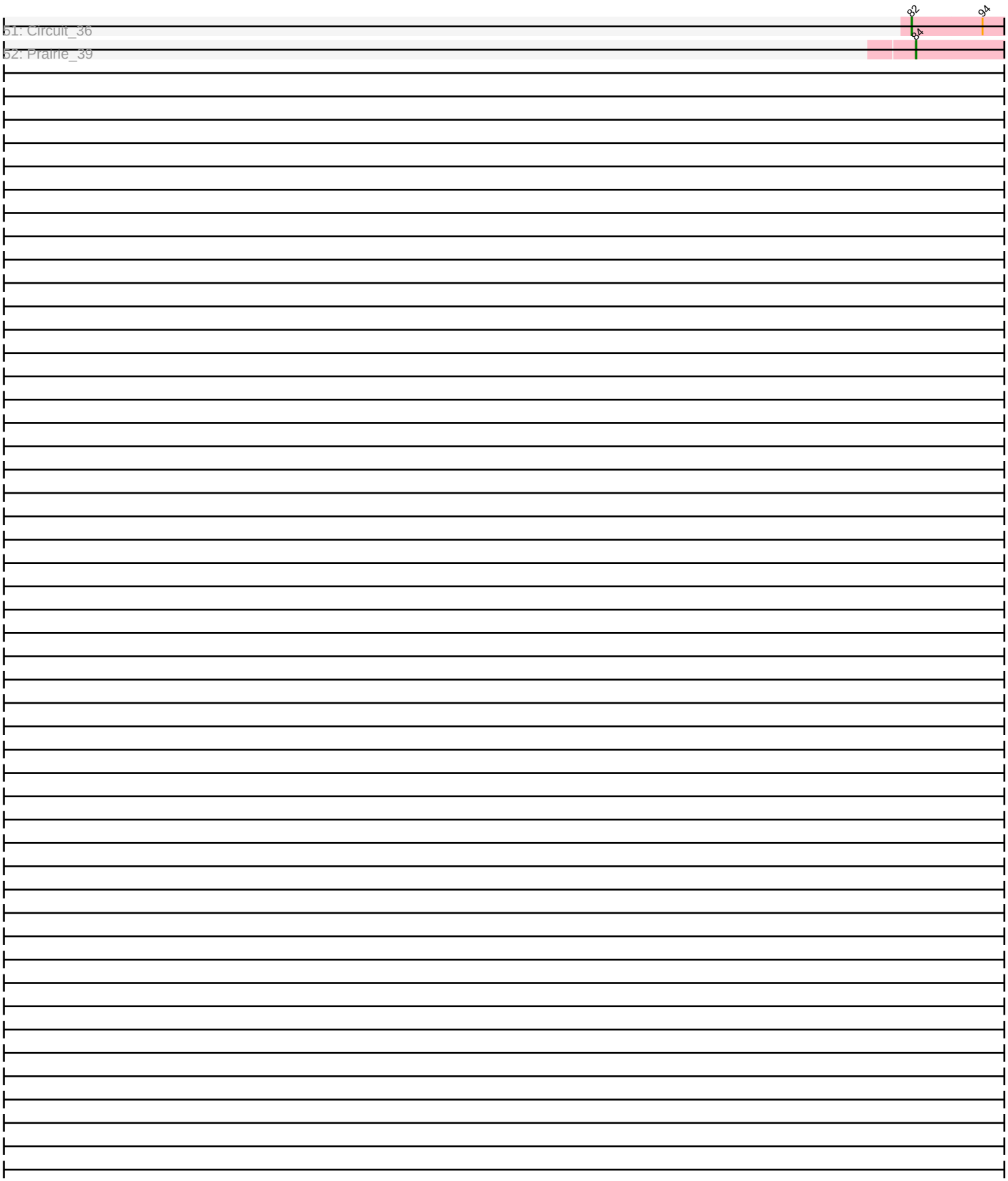
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1: Rebeuca_45 + 4
2: DontArgue_44
3: Refuge_46
4: Steamy_43
5: Pharaoh_41
6: Zimmer_44
7: DarthPhader_44
8: Phiel_36
9: Luchador_52 + 1
10: Gail_52
11: Sunnee_50
12: SororFago_50
13: Boohoo_50 + 20
14: Elle_45
15: Nedarya_45
16: Anon_44
17: Ravana_51
18: EagleEye_49 + 2
19: NicoleYera_46
20: XianYue_46
21: FatCactus_39
22: Anthony_42
23: Chargerpower_46
24: BennyP_50 + 8
25: DroogsArmy_43 + 1
26: Sheen_47
27: Roary_45 + 5
28: NearlyHeadless_44 + 3
29: Stephig9_45
30: WorldCup_45 + 4
31: RyeScarlet_47 + 29
32: Celestialunch_45 + 1
33: SheaKeira_46 + 1
34: Arissanae_46
35: Toaka_46
36: Elephantoon_46
37: Charm_46
38: BogosyJay_46 + 1
39: LoneWolf_47
40: DreamTeam1_46
41: Vanisoa_46
42: Darrell_48
43: Yecey3_48
44: Keziacharles14_47
45: RGL3_32
46: CalWood4100_42 + 1
47: Nandito_40
48: Klevey_40
49: Bolt007_40
50: Bumble_36

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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 347376 Report

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

Pham number 347376 has 133 members, 10 are drafts.

Phages represented in each track:
• Track 1 : Rebeuca_45, Topanga_43, WalterMcMickey_43, Kristoff_45, Twister_43
• Track 2 : DontArgue_44
• Track 3 : Refuge_46
• Track 4 : Steamy_43
• Track 5 : Pharaoh_41
• Track 6 : Zimmer_44
• Track 7 : DarthPhader_44
• Track 8 : Phlei_36
• Track 9 : Luchador_52, Jeeves_52
• Track 10 : Gail_52
• Track 11 : Sunhee_50
• Track 12 : SororFago_50
• Track 13 : Boohoo_50, DekHockey33_50, Switzerland_49, ShayRa_51, LastResort_49, Rosalind_48, Warrior24_50, Epsocamisio_48, Nebulosus_49, Oofda_49, KatherineG_51, Remus_49, Strosahl_49, Looper_50, ReMo_49, Waits_49, Soups_50, MinecraftSteve_50, Anaysia_50, Battleship_50, JSwag_48
• Track 14 : Elle_45
• Track 15 : Nedarya_45
• Track 16 : Anon_44
• Track 17 : Ravana_51
• Track 18 : EagleEye_49, PainterBoy_48, Lucyedi_48
• Track 19 : NicoleTera_46
• Track 20 : XianYue_46
• Track 21 : FatCactus_39
• Track 22 : Anthony_42
• Track 23 : Chargerpower_46
• Track 24 : BennyP_50, Candra_50, Kipper29_49, Dorothea_49, SmellyB_49, VohminGhazi_49, Kazan_50, EricB_49, Neeharika16_48
• Track 25 : DroogsArmy_43, Timshel_45
• Track 26 : Sheen_47
• Track 27 : Roary_45, Smeadley_45, Dixon_44, Danforth_44, Caitlin_44, Expelliarmus_44
• Track 28 : NearlyHeadless_44, Astro_44, Groundhog_43, Saintus_39
• Track 29 : Stephig9_45
• Track 30 : WorldCup_45, CogOmlette_45, Rahalelujah_46, Minispark_45, Bellris_46
• Track 31 : RyeScarlet_47, Eidsmoe_47, Holex_47, Phaeder_47, Lilleskat_47, Myxus_47, Priya_47, Beemo_47, ExplosioNervosa_47, EmyBug_46, PackMan_46,

Ugenie5_44, Ayanochan_46, Hanray_47, Alma_47, Onglai_46, HortumSL17_47, EdogawaKiddo_47, Scherzo_47, Conquerage_47, Fayely_47, Phonnegut_47, Sachima_47, Jiawan_47, Tubs_47, Pioneer_47, Aliter_47, Spouty_47, Qobbit_47, Catalina_48
• Track 32 : Celestialunch_45, MegTheThird_46
• Track 33 : SheaKeira_46, Klodlith_47
• Track 34 : Arissanae_46
• Track 35 : Toaka_46
• Track 36 : Elephantoon_46
• Track 37 : Charm_46
• Track 38 : BogosyJay_46, Maminiaina_46
• Track 39 : LoneWolf_47
• Track 40 : DreamTeam1_46
• Track 41 : Vanisoa_46
• Track 42 : Darrell_48
• Track 43 : Yecey3_48
• Track 44 : Keziacharles14_47
• Track 45 : RGL3_32
• Track 46 : CalWood4100_42, Lilmac1015_42
• Track 47 : Nandito_40
• Track 48 : Klevey_40
• Track 49 : Bolt007_40
• Track 50 : Bumble_36
• Track 51 : Circuit_36
• Track 52 : Prairie_39

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

The start number called the most often in the published annotations is 31, it was called in 45 of the 123 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aliter_47, Alma_47, Ayanochan_46, Beemo_47, Bellris_46, BogosyJay_46, Catalina_48, Celestialunch_45, Chargerpower_46, CogOmlette_45, Conquerage_47, EdogawaKiddo_47, Eidsmoe_47, EmyBug_46, ExplosioNervosa_47, Fayely_47, Gail_52, Hanray_47, Holex_47, HortumSL17_47, Jeeves_52, Jiawan_47, Keziacharles14_47, Lilleskat_47, LoneWolf_47, Luchador_52, Maminiaina_46, MegTheThird_46, Minispark_45, Myxus_47, Onglai_46, PackMan_46, Phaeder_47, Pharaoh_41, Phonnegut_47, Pioneer_47, Priya_47, Qobbit_47, Rahalelujah_46, RyeScarlet_47, Sachima_47, Scherzo_47, SororFago_50, Spouty_47, Toaka_46, Tubs_47, Ugenie5_44, Vanisoa_46, WorldCup_45,

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

Genes that do not have the "Most Annotated" start:
• Anaysia_50, Anon_44, Anthony_42, Arissanae_46, Astro_44, Battleship_50, BennyP_50, Bolt007_40, Boohoo_50, Bumble_36, Caitlin_44, CalWood4100_42, Candra_50, Charm_46, Circuit_36, Danforth_44, Darrell_48, DarthPhader_44, DekHockey33_50, Dixon_44, DontArgue_44, Dorothea_49, DreamTeam1_46,

DroogsArmy_43, EagleEye_49, Elephantoon_46, Elle_45, Epsocamisio_48, EricB_49, Expelliarmus_44, FatCactus_39, Groundhog_43, JSwag_48, KatherineG_51, Kazan_50, Kipper29_49, Klevey_40, Klodlith_47, Kristoff_45, LastResort_49, Lilmac1015_42, Looper_50, Lucyedi_48, MinecraftSteve_50, Nandito_40, NearlyHeadless_44, Nebulosus_49, Nedarya_45, Neeharika16_48, NicoleTera_46, Oofda_49, PainterBoy_48, Phlei_36, Prairie_39, RGL3_32, Ravana_51, ReMo_49, Rebeuca_45, Refuge_46, Remus_49, Roary_45, Rosalind_48, Saintus_39, ShayRa_51, SheaKeira_46, Sheen_47, Smeadley_45, SmellyB_49, Soups_50, Steamy_43, Stephig9_45, Strosahl_49, Sunhee_50, Switzerland_49, Timshel_45, Topanga_43, Twister_43, VohminGhazi_49, Waits_49, WalterMcMickey_43, Warrior24_50, XianYue_46, Yecey3_48, Zimmer_44,

Summary by start number:

Start 17:
• Found in 9 of 133 (6.8%) of genes in pham
• Manual Annotations of this start: 9 of 123
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BennyP_50 (A6), Candra_50 (A6), Dorothea_49 (A6), EricB_49 (A6), Kazan_50 (A6), Kipper29_49 (A6), Neeharika16_48 (A6), SmellyB_49 (A6), VohminGhazi_49 (A6),

Start 20:
• Found in 1 of 133 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 123
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NicoleTera_46 (A2),

Start 29:
• Found in 3 of 133 (2.3%) of genes in pham
• Manual Annotations of this start: 3 of 123
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arissanae_46 (A9), Darrell_48 (A9), Elephantoon_46 (A9),

Start 30:
• Found in 2 of 133 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 123
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Yecey3_48 (A9),

Start 31:
• Found in 49 of 133 (36.8%) of genes in pham
• Manual Annotations of this start: 45 of 123
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aliter_47 (A9), Alma_47 (A9), Ayanochan_46 (A9), Beemo_47 (A9), Bellris_46 (A9), BogosyJay_46 (A9), Catalina_48 (A9), Celestialunch_45 (A9), Chargerpower_46 (A22), CogOmlette_45 (A9), Conquerage_47 (A9), EdogawaKiddo_47 (A9), Eidsmoe_47 (A9), EmyBug_46 (A9), ExplosioNervosa_47 (A9), Fayely_47 (A9), Gail_52 (A14), Hanray_47 (A9), Holex_47 (A9), HortumSL17_47 (A9), Jeeves_52 (A14), Jiawan_47 (A9), Keziacharles14_47 (A9), Lilleskat_47 (A9), LoneWolf_47 (A9), Luchador_52 (A14), Maminiaina_46 (A9), MegTheThird_46 (A9), Minispark_45 (A9), Myxus_47 (A9),

Onglai_46 (A9), PackMan_46 (A9), Phaeder_47 (A9), Pharaoh_41 (A12), Phonnegut_47 (A9), Pioneer_47 (A9), Priya_47 (A9), Qobbit_47 (A9), Rahalelujah_46 (A9), RyeScarlet_47 (A9), Sachima_47 (A9), Scherzo_47 (A9), SororFago_50 (A14), Spouty_47 (A9), Toaka_46 (A9), Tubs_47 (A9), Ugenie5_44 (A9), Vanisoa_46 (A9), WorldCup_45 (A9),

Start 32:
• Found in 4 of 133 (3.0%) of genes in pham
• Manual Annotations of this start: 3 of 123
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Charm_46 (A9), DreamTeam1_46 (A9), Klodlith_47 (A9), SheaKeira_46 (A9),

Start 34:
• Found in 1 of 133 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 123
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sunhee_50 (A14),

Start 36:
• Found in 3 of 133 (2.3%) of genes in pham
• Manual Annotations of this start: 3 of 123
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EagleEye_49 (A16), Lucyedi_48 (A16), PainterBoy_48 (A16),

Start 41:
• Found in 2 of 133 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 123
• Called 50.0% of time when present
• Phage (with cluster) where this start called: XianYue_46 (A2),

Start 42:
• Found in 5 of 133 (3.8%) of genes in pham
• Manual Annotations of this start: 5 of 123
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DarthPhader_44 (A12), DroogsArmy_43 (A7), Refuge_46 (A12), Timshel_45 (A7), Zimmer_44 (A12),

Start 44:
• Found in 1 of 133 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 123
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nedarya_45 (A15),

Start 46:
• Found in 7 of 133 (5.3%) of genes in pham
• Manual Annotations of this start: 5 of 123
• Called 85.7% of time when present
• Phage (with cluster) where this start called: DontArgue_44 (A10), Kristoff_45 (A10), Rebeuca_45 (A10), Topanga_43 (A10), Twister_43 (A10), WalterMcMickey_43 (A10),

Start 47:

• Found in 1 of 133 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 123
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Steamy_43 (A12),

Start 48:
• Found in 1 of 133 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 123
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sheen_47 (A7),

Start 49:
• Found in 2 of 133 (1.5%) of genes in pham
• Manual Annotations of this start: 2 of 123
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anthony_42 (A20), FatCactus_39 (A20),

Start 50:
• Found in 1 of 133 (0.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phlei_36 (A13),

Start 57:
• Found in 24 of 133 (18.0%) of genes in pham
• Manual Annotations of this start: 24 of 123
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anaysia_50 (A15), Anon_44 (A15), Battleship_50 (A15), Boohoo_50 (A15), DekHockey33_50 (A15), Elle_45 (A15), Epsocamisio_48 (A15), JSwag_48 (A15), KatherineG_51 (A15), LastResort_49 (A15), Looper_50 (A15), MinecraftSteve_50 (A15), Nebulosus_49 (A15), Oofda_49 (A15), Ravana_51 (A15), ReMo_49 (A15), Remus_49 (A15), Rosalind_48 (A15), ShayRa_51 (A15), Soups_50 (A15), Strosahl_49 (A15), Switzerland_49 (A15), Waits_49 (A15), Warrior24_50 (A15),

Start 58:
• Found in 13 of 133 (9.8%) of genes in pham
• Manual Annotations of this start: 11 of 123
• Called 84.6% of time when present
• Phage (with cluster) where this start called: Astro_44 (A8), Caitlin_44 (A8), Danforth_44 (A8), Dixon_44 (A8), Expelliarmus_44 (A8), Groundhog_43 (A8), NearlyHeadless_44 (A8), Roary_45 (A8), Saintus_39 (A8), Smeadley_45 (A8), Stephig9_45 (A8),

Start 65:
• Found in 9 of 133 (6.8%) of genes in pham
• No Manual Annotations of this start.
• Called 11.1% of time when present
• Phage (with cluster) where this start called: RGL3_32 (CA),

Start 82:
• Found in 2 of 133 (1.5%) of genes in pham
• Manual Annotations of this start: 2 of 123

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bumble_36 (FH), Circuit_36 (FH),

Start 84:
• Found in 6 of 133 (4.5%) of genes in pham
• Manual Annotations of this start: 4 of 123
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bolt007_40 (FH), CalWood4100_42 (FH), Klevey_40 (FH), Lilmac1015_42 (FH), Nandito_40 (FH), Prairie_39 (FH),

Summary by clusters:

There are 15 clusters represented in this pham: A15, A14, A22, A16, A10, A13, A12, CA, FH, A2, A7, A6, A9, A8, A20,

Info for manual annotations of cluster A10:
•Start number 46 was manually annotated 5 times for cluster A10.

Info for manual annotations of cluster A12:
•Start number 31 was manually annotated 1 time for cluster A12.
•Start number 42 was manually annotated 3 times for cluster A12.
•Start number 47 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A14:
•Start number 31 was manually annotated 4 times for cluster A14.
•Start number 34 was manually annotated 1 time for cluster A14.

Info for manual annotations of cluster A15:
•Start number 44 was manually annotated 1 time for cluster A15.
•Start number 57 was manually annotated 24 times for cluster A15.

Info for manual annotations of cluster A16:
•Start number 36 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A2:
•Start number 20 was manually annotated 1 time for cluster A2.
•Start number 41 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:
•Start number 49 was manually annotated 2 times for cluster A20.

Info for manual annotations of cluster A22:
•Start number 31 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A6:
•Start number 17 was manually annotated 9 times for cluster A6.

Info for manual annotations of cluster A7:
•Start number 42 was manually annotated 2 times for cluster A7.
•Start number 48 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A8:

•Start number 58 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster A9:
•Start number 29 was manually annotated 3 times for cluster A9.
•Start number 30 was manually annotated 1 time for cluster A9.
•Start number 31 was manually annotated 39 times for cluster A9.
•Start number 32 was manually annotated 3 times for cluster A9.

Info for manual annotations of cluster FH:
•Start number 82 was manually annotated 2 times for cluster FH.
•Start number 84 was manually annotated 4 times for cluster FH.

Gene Information:

Gene: Aliter_47 Start: 32037, Stop: 31711, Start Num: 31
Candidate Starts for Aliter_47:
(Start: 31 @32037 has 45 MA's), (39, 32013), (52, 31971), (95, 31731),

Gene: Alma_47 Start: 32160, Stop: 31834, Start Num: 31
Candidate Starts for Alma_47:
(Start: 31 @32160 has 45 MA's), (39, 32136), (52, 32094), (95, 31854),

Gene: Anaysia_50 Start: 30853, Stop: 30560, Start Num: 57
Candidate Starts for Anaysia_50:
(Start: 57 @30853 has 24 MA's), (80, 30736), (90, 30643),

Gene: Anon_44 Start: 29643, Stop: 29365, Start Num: 57
Candidate Starts for Anon_44:
(Start: 57 @29643 has 24 MA's), (90, 29448),

Gene: Anthony_42 Start: 29795, Stop: 29478, Start Num: 49
Candidate Starts for Anthony_42:
(12, 29948), (27, 29870), (Start: 49 @29795 has 2 MA's), (61, 29747), (63, 29741), (90, 29561), (95, 29501),

Gene: Arissanae_46 Start: 32694, Stop: 32350, Start Num: 29
Candidate Starts for Arissanae_46:
(Start: 29 @32694 has 3 MA's), (37, 32679), (52, 32631), (Start: 58 @32610 has 11 MA's), (73, 32556), (87, 32472), (95, 32370),

Gene: Astro_44 Start: 31145, Stop: 30849, Start Num: 58
Candidate Starts for Astro_44:
(Start: 58 @31145 has 11 MA's), (59, 31136), (69, 31094), (93, 30908),

Gene: Ayanochan_46 Start: 32164, Stop: 31838, Start Num: 31
Candidate Starts for Ayanochan_46:
(Start: 31 @32164 has 45 MA's), (39, 32140), (52, 32098), (95, 31858),

Gene: Battleship_50 Start: 30586, Stop: 30293, Start Num: 57
Candidate Starts for Battleship_50:

(Start: 57 @30586 has 24 MA's), (80, 30469), (90, 30376),

Gene: Beemo_47 Start: 32159, Stop: 31833, Start Num: 31
Candidate Starts for Beemo_47:
(Start: 31 @32159 has 45 MA's), (39, 32135), (52, 32093), (95, 31853),

Gene: Bellris_46 Start: 31402, Stop: 31031, Start Num: 31
Candidate Starts for Bellris_46:
(7, 31588), (8, 31537), (9, 31513), (Start: 31 @31402 has 45 MA's), (51, 31342), (52, 31339), (95, 31051),

Gene: BennyP_50 Start: 31282, Stop: 30854, Start Num: 17
Candidate Starts for BennyP_50:
(13, 31309), (Start: 17 @31282 has 9 MA's), (43, 31186), (55, 31150), (74, 31060), (79, 31033), (80, 31030), (95, 30874),

Gene: BogosyJay_46 Start: 31869, Stop: 31543, Start Num: 31
Candidate Starts for BogosyJay_46:
(Start: 31 @31869 has 45 MA's), (39, 31845), (52, 31803), (65, 31761), (95, 31563),

Gene: Bolt007_40 Start: 31595, Stop: 31807, Start Num: 84
Candidate Starts for Bolt007_40:
(54, 31445), (Start: 84 @31595 has 4 MA's), (94, 31727),

Gene: Boohoo_50 Start: 30853, Stop: 30560, Start Num: 57
Candidate Starts for Boohoo_50:
(Start: 57 @30853 has 24 MA's), (80, 30736), (90, 30643),

Gene: Bumble_36 Start: 28927, Stop: 29160, Start Num: 82
Candidate Starts for Bumble_36:
(1, 27082), (2, 27148), (3, 27325), (4, 27490), (5, 28306), (22, 28663), (35, 28720), (Start: 82 @28927 has 2 MA's), (94, 29071),

Gene: Caitlin_44 Start: 31138, Stop: 30842, Start Num: 58
Candidate Starts for Caitlin_44:
(40, 31204), (Start: 58 @31138 has 11 MA's), (69, 31087), (93, 30901),

Gene: CalWood4100_42 Start: 31080, Stop: 31298, Start Num: 84
Candidate Starts for CalWood4100_42:
(Start: 84 @31080 has 4 MA's), (94, 31212),

Gene: Candra_50 Start: 31173, Stop: 30745, Start Num: 17
Candidate Starts for Candra_50:
(13, 31200), (Start: 17 @31173 has 9 MA's), (43, 31077), (55, 31041), (74, 30951), (79, 30924), (80, 30921), (95, 30765),

Gene: Catalina_48 Start: 32110, Stop: 31784, Start Num: 31
Candidate Starts for Catalina_48:
(Start: 31 @32110 has 45 MA's), (39, 32086), (52, 32044), (95, 31804),

Gene: Celestialunch_45 Start: 31680, Stop: 31330, Start Num: 31
Candidate Starts for Celestialunch_45:

(15, 31743), (26, 31704), (Start: 31 @31680 has 45 MA's), (37, 31659), (39, 31653), (71, 31551), (95, 31350), (96, 31341),

Gene: Chargerpower_46 Start: 31054, Stop: 30704, Start Num: 31
Candidate Starts for Chargerpower_46:
(Start: 31 @31054 has 45 MA's), (52, 30991), (74, 30910), (90, 30784), (95, 30724), (96, 30715),

Gene: Charm_46 Start: 31899, Stop: 31555, Start Num: 32
Candidate Starts for Charm_46:
(Start: 32 @31899 has 3 MA's), (37, 31884), (39, 31878), (52, 31836), (65, 31794), (73, 31761), (95, 31575), (96, 31566),

Gene: Circuit_36 Start: 29889, Stop: 30122, Start Num: 82
Candidate Starts for Circuit_36:
(Start: 82 @29889 has 2 MA's), (94, 30033),

Gene: CogOmlette_45 Start: 31399, Stop: 31028, Start Num: 31
Candidate Starts for CogOmlette_45:
(7, 31585), (8, 31534), (9, 31510), (Start: 31 @31399 has 45 MA's), (51, 31339), (52, 31336), (95, 31048),

Gene: Conquerage_47 Start: 32133, Stop: 31807, Start Num: 31
Candidate Starts for Conquerage_47:
(Start: 31 @32133 has 45 MA's), (39, 32109), (52, 32067), (95, 31827),

Gene: Danforth_44 Start: 31174, Stop: 30878, Start Num: 58
Candidate Starts for Danforth_44:
(40, 31240), (Start: 58 @31174 has 11 MA's), (69, 31123), (93, 30937),

Gene: Darrell_48 Start: 32497, Stop: 32153, Start Num: 29
Candidate Starts for Darrell_48:
(18, 32539), (24, 32518), (Start: 29 @32497 has 3 MA's), (37, 32482), (52, 32434), (Start: 58 @32413 has 11 MA's), (73, 32359), (95, 32173),

Gene: DarthPhader_44 Start: 32954, Stop: 32610, Start Num: 42
Candidate Starts for DarthPhader_44:
(38, 32966), (Start: 41 @32960 has 1 MA's), (Start: 42 @32954 has 5 MA's), (55, 32912), (59, 32891), (72, 32837), (73, 32825), (87, 32732), (90, 32690), (95, 32630),

Gene: DekHockey33_50 Start: 31068, Stop: 30775, Start Num: 57
Candidate Starts for DekHockey33_50:
(Start: 57 @31068 has 24 MA's), (80, 30951), (90, 30858),

Gene: Dixon_44 Start: 31047, Stop: 30760, Start Num: 58
Candidate Starts for Dixon_44:
(40, 31113), (Start: 58 @31047 has 11 MA's), (69, 30996), (93, 30810),

Gene: DontArgue_44 Start: 30703, Stop: 30368, Start Num: 46
Candidate Starts for DontArgue_44:
(10, 30847), (11, 30841), (Start: 46 @30703 has 5 MA's), (88, 30463),

Gene: Dorothea_49 Start: 31156, Stop: 30728, Start Num: 17
Candidate Starts for Dorothea_49:

(13, 31183), (Start: 17 @31156 has 9 MA's), (43, 31060), (55, 31024), (74, 30934), (79, 30907), (80, 30904), (95, 30748),

Gene: DreamTeam1_46 Start: 31773, Stop: 31429, Start Num: 32
Candidate Starts for DreamTeam1_46:
(Start: 32 @31773 has 3 MA's), (37, 31758), (39, 31752), (52, 31710), (53, 31707), (65, 31668), (73, 31635), (95, 31449), (96, 31440),

Gene: DroogsArmy_43 Start: 33565, Stop: 33284, Start Num: 42
Candidate Starts for DroogsArmy_43:
(11, 33700), (Start: 42 @33565 has 5 MA's), (66, 33502), (77, 33445), (86, 33415), (95, 33307),

Gene: EagleEye_49 Start: 31670, Stop: 31308, Start Num: 36
Candidate Starts for EagleEye_49:
(Start: 36 @31670 has 3 MA's), (43, 31646), (90, 31388),

Gene: EdogawaKiddo_47 Start: 32110, Stop: 31784, Start Num: 31
Candidate Starts for EdogawaKiddo_47:
(Start: 31 @32110 has 45 MA's), (39, 32086), (52, 32044), (95, 31804),

Gene: Eidsmoe_47 Start: 32173, Stop: 31847, Start Num: 31
Candidate Starts for Eidsmoe_47:
(Start: 31 @32173 has 45 MA's), (39, 32149), (52, 32107), (95, 31867),

Gene: Elephantoon_46 Start: 31477, Stop: 31130, Start Num: 29
Candidate Starts for Elephantoon_46:
(Start: 29 @31477 has 3 MA's), (39, 31453), (52, 31411), (73, 31336), (75, 31318), (95, 31150),

Gene: Elle_45 Start: 29059, Stop: 28784, Start Num: 57
Candidate Starts for Elle_45:
(Start: 57 @29059 has 24 MA's), (90, 28867),

Gene: EmyBug_46 Start: 32175, Stop: 31849, Start Num: 31
Candidate Starts for EmyBug_46:
(Start: 31 @32175 has 45 MA's), (39, 32151), (52, 32109), (95, 31869),

Gene: Epsocamisio_48 Start: 30391, Stop: 30098, Start Num: 57
Candidate Starts for Epsocamisio_48:
(Start: 57 @30391 has 24 MA's), (80, 30274), (90, 30181),

Gene: EricB_49 Start: 31130, Stop: 30702, Start Num: 17
Candidate Starts for EricB_49:
(13, 31157), (Start: 17 @31130 has 9 MA's), (43, 31034), (55, 30998), (74, 30908), (79, 30881), (80, 30878), (95, 30722),

Gene: Expelliarmus_44 Start: 31203, Stop: 30907, Start Num: 58
Candidate Starts for Expelliarmus_44:
(40, 31269), (Start: 58 @31203 has 11 MA's), (69, 31152), (93, 30966),

Gene: ExplosioNervosa_47 Start: 32193, Stop: 31867, Start Num: 31
Candidate Starts for ExplosioNervosa_47:
(Start: 31 @32193 has 45 MA's), (39, 32169), (52, 32127), (95, 31887),

Gene: FatCactus_39 Start: 29455, Stop: 29141, Start Num: 49
Candidate Starts for FatCactus_39:
(12, 29608), (16, 29578), (19, 29563), (27, 29530), (Start: 49 @29455 has 2 MA's), (61, 29407), (63, 29401), (73, 29350), (90, 29221),

Gene: Fayely_47 Start: 32142, Stop: 31816, Start Num: 31
Candidate Starts for Fayely_47:
(Start: 31 @32142 has 45 MA's), (39, 32118), (52, 32076), (95, 31836),

Gene: Gail_52 Start: 33875, Stop: 33528, Start Num: 31
Candidate Starts for Gail_52:
(25, 33899), (Start: 31 @33875 has 45 MA's), (52, 33815), (90, 33608), (95, 33548), (96, 33539),

Gene: Groundhog_43 Start: 31110, Stop: 30814, Start Num: 58
Candidate Starts for Groundhog_43:
(Start: 58 @31110 has 11 MA's), (59, 31101), (69, 31059), (93, 30873),

Gene: Hanray_47 Start: 32114, Stop: 31788, Start Num: 31
Candidate Starts for Hanray_47:
(Start: 31 @32114 has 45 MA's), (39, 32090), (52, 32048), (95, 31808),

Gene: Holex_47 Start: 32133, Stop: 31807, Start Num: 31
Candidate Starts for Holex_47:
(Start: 31 @32133 has 45 MA's), (39, 32109), (52, 32067), (95, 31827),

Gene: HortumSL17_47 Start: 32109, Stop: 31783, Start Num: 31
Candidate Starts for HortumSL17_47:
(Start: 31 @32109 has 45 MA's), (39, 32085), (52, 32043), (95, 31803),

Gene: JSwag_48 Start: 30329, Stop: 30036, Start Num: 57
Candidate Starts for JSwag_48:
(Start: 57 @30329 has 24 MA's), (80, 30212), (90, 30119),

Gene: Jeeves_52 Start: 32647, Stop: 32300, Start Num: 31
Candidate Starts for Jeeves_52:
(25, 32671), (Start: 31 @32647 has 45 MA's), (52, 32587), (90, 32380), (95, 32320),

Gene: Jiawan_47 Start: 32146, Stop: 31820, Start Num: 31
Candidate Starts for Jiawan_47:
(Start: 31 @32146 has 45 MA's), (39, 32122), (52, 32080), (95, 31840),

Gene: KatherineG_51 Start: 31068, Stop: 30775, Start Num: 57
Candidate Starts for KatherineG_51:
(Start: 57 @31068 has 24 MA's), (80, 30951), (90, 30858),

Gene: Kazan_50 Start: 31143, Stop: 30715, Start Num: 17
Candidate Starts for Kazan_50:
(13, 31170), (Start: 17 @31143 has 9 MA's), (43, 31047), (55, 31011), (74, 30921), (79, 30894), (80, 30891), (95, 30735),

Gene: Keziacharles14_47 Start: 33144, Stop: 32797, Start Num: 31
Candidate Starts for Keziacharles14_47:

(Start: 31 @33144 has 45 MA's), (39, 33120), (52, 33078), (72, 33015), (73, 33003), (95, 32817), (96, 32808),

Gene: Kipper29_49 Start: 31156, Stop: 30728, Start Num: 17
Candidate Starts for Kipper29_49:
(13, 31183), (Start: 17 @31156 has 9 MA's), (43, 31060), (55, 31024), (74, 30934), (79, 30907), (80, 30904), (95, 30748),

Gene: Klevey_40 Start: 30510, Stop: 30725, Start Num: 84
Candidate Starts for Klevey_40:
(Start: 84 @30510 has 4 MA's),

Gene: Klodlith_47 Start: 31790, Stop: 31446, Start Num: 32
Candidate Starts for Klodlith_47:
(Start: 32 @31790 has 3 MA's), (37, 31775), (39, 31769), (52, 31727), (65, 31685), (73, 31652), (95, 31466), (96, 31457),

Gene: Kristoff_45 Start: 31839, Stop: 31501, Start Num: 46
Candidate Starts for Kristoff_45:
(11, 31983), (21, 31932), (Start: 46 @31839 has 5 MA's), (80, 31689), (81, 31674), (88, 31596),

Gene: LastResort_49 Start: 30629, Stop: 30336, Start Num: 57
Candidate Starts for LastResort_49:
(Start: 57 @30629 has 24 MA's), (80, 30512), (90, 30419),

Gene: Lilleskat_47 Start: 32063, Stop: 31737, Start Num: 31
Candidate Starts for Lilleskat_47:
(Start: 31 @32063 has 45 MA's), (39, 32039), (52, 31997), (95, 31757),

Gene: Lilmac1015_42 Start: 31080, Stop: 31298, Start Num: 84
Candidate Starts for Lilmac1015_42:
(Start: 84 @31080 has 4 MA's), (94, 31212),

Gene: LoneWolf_47 Start: 31870, Stop: 31502, Start Num: 31
Candidate Starts for LoneWolf_47:
(7, 32050), (8, 31999), (9, 31975), (Start: 31 @31870 has 45 MA's), (39, 31846), (52, 31804), (62, 31762), (95, 31522),

Gene: Looper_50 Start: 30606, Stop: 30313, Start Num: 57
Candidate Starts for Looper_50:
(Start: 57 @30606 has 24 MA's), (80, 30489), (90, 30396),

Gene: Luchador_52 Start: 34435, Stop: 34088, Start Num: 31
Candidate Starts for Luchador_52:
(25, 34459), (Start: 31 @34435 has 45 MA's), (52, 34375), (90, 34168), (95, 34108),

Gene: Lucyedi_48 Start: 31865, Stop: 31503, Start Num: 36
Candidate Starts for Lucyedi_48:
(Start: 36 @31865 has 3 MA's), (43, 31841), (90, 31583),

Gene: Maminiaina_46 Start: 31851, Stop: 31525, Start Num: 31
Candidate Starts for Maminiaina_46:
(Start: 31 @31851 has 45 MA's), (39, 31827), (52, 31785), (65, 31743), (95, 31545),

Gene: MegTheThird_46 Start: 31679, Stop: 31329, Start Num: 31
Candidate Starts for MegTheThird_46:
(15, 31742), (26, 31703), (Start: 31 @31679 has 45 MA's), (37, 31658), (39, 31652), (71, 31550), (95, 31349), (96, 31340),

Gene: MinecraftSteve_50 Start: 30593, Stop: 30300, Start Num: 57
Candidate Starts for MinecraftSteve_50:
(Start: 57 @30593 has 24 MA's), (80, 30476), (90, 30383),

Gene: Minispark_45 Start: 31396, Stop: 31025, Start Num: 31
Candidate Starts for Minispark_45:
(7, 31582), (8, 31531), (9, 31507), (Start: 31 @31396 has 45 MA's), (51, 31336), (52, 31333), (95, 31045),

Gene: Myxus_47 Start: 32109, Stop: 31783, Start Num: 31
Candidate Starts for Myxus_47:
(Start: 31 @32109 has 45 MA's), (39, 32085), (52, 32043), (95, 31803),

Gene: Nandito_40 Start: 30789, Stop: 31010, Start Num: 84
Candidate Starts for Nandito_40:
(Start: 84 @30789 has 4 MA's), (94, 30921),

Gene: NearlyHeadless_44 Start: 30949, Stop: 30662, Start Num: 58
Candidate Starts for NearlyHeadless_44:
(Start: 58 @30949 has 11 MA's), (59, 30940), (69, 30898), (93, 30712),

Gene: Nebulosus_49 Start: 30625, Stop: 30332, Start Num: 57
Candidate Starts for Nebulosus_49:
(Start: 57 @30625 has 24 MA's), (80, 30508), (90, 30415),

Gene: Nedarya_45 Start: 30054, Stop: 29713, Start Num: 44
Candidate Starts for Nedarya_45:
(Start: 44 @30054 has 1 MA's), (83, 29883), (90, 29796),

Gene: Neeharika16_48 Start: 30597, Stop: 30169, Start Num: 17
Candidate Starts for Neeharika16_48:
(13, 30624), (Start: 17 @30597 has 9 MA's), (43, 30501), (55, 30465), (74, 30375), (79, 30348), (80, 30345), (95, 30189),

Gene: NicoleTera_46 Start: 32449, Stop: 32027, Start Num: 20
Candidate Starts for NicoleTera_46:
(Start: 20 @32449 has 1 MA's), (23, 32440), (33, 32401), (60, 32305), (95, 32047),

Gene: Onglai_46 Start: 30450, Stop: 30124, Start Num: 31
Candidate Starts for Onglai_46:
(Start: 31 @30450 has 45 MA's), (39, 30426), (52, 30384), (95, 30144),

Gene: Oofda_49 Start: 30484, Stop: 30191, Start Num: 57
Candidate Starts for Oofda_49:
(Start: 57 @30484 has 24 MA's), (80, 30367), (90, 30274),

Gene: PackMan_46 Start: 32109, Stop: 31783, Start Num: 31

Candidate Starts for PackMan_46:
(Start: 31 @32109 has 45 MA's), (39, 32085), (52, 32043), (95, 31803),

Gene: PainterBoy_48 Start: 31801, Stop: 31439, Start Num: 36
Candidate Starts for PainterBoy_48:
(Start: 36 @31801 has 3 MA's), (43, 31777), (90, 31519),

Gene: Phaeder_47 Start: 32109, Stop: 31783, Start Num: 31
Candidate Starts for Phaeder_47:
(Start: 31 @32109 has 45 MA's), (39, 32085), (52, 32043), (95, 31803),

Gene: Pharaoh_41 Start: 31682, Stop: 31311, Start Num: 31
Candidate Starts for Pharaoh_41:
(6, 32006), (Start: 31 @31682 has 45 MA's), (52, 31619), (73, 31523), (90, 31391),

Gene: Phlei_36 Start: 31613, Stop: 31308, Start Num: 50
Candidate Starts for Phlei_36:
(Start: 46 @31628 has 5 MA's), (50, 31613), (65, 31559), (69, 31541), (78, 31487), (96, 31319),

Gene: Phonnegut_47 Start: 32158, Stop: 31832, Start Num: 31
Candidate Starts for Phonnegut_47:
(Start: 31 @32158 has 45 MA's), (39, 32134), (52, 32092), (95, 31852),

Gene: Pioneer_47 Start: 32158, Stop: 31832, Start Num: 31
Candidate Starts for Pioneer_47:
(Start: 31 @32158 has 45 MA's), (39, 32134), (52, 32092), (95, 31852),

Gene: Prairie_39 Start: 30423, Stop: 30638, Start Num: 84
Candidate Starts for Prairie_39:
(Start: 84 @30423 has 4 MA's),

Gene: Priya_47 Start: 32176, Stop: 31850, Start Num: 31
Candidate Starts for Priya_47:
(Start: 31 @32176 has 45 MA's), (39, 32152), (52, 32110), (95, 31870),

Gene: Qobbit_47 Start: 32138, Stop: 31812, Start Num: 31
Candidate Starts for Qobbit_47:
(Start: 31 @32138 has 45 MA's), (39, 32114), (52, 32072), (95, 31832),

Gene: RGL3_32 Start: 26225, Stop: 25980, Start Num: 65
Candidate Starts for RGL3_32:
(65, 26225), (73, 26183), (92, 26036), (95, 26000), (96, 25991),

Gene: Rahalelujah_46 Start: 31411, Stop: 31040, Start Num: 31
Candidate Starts for Rahalelujah_46:
(7, 31597), (8, 31546), (9, 31522), (Start: 31 @31411 has 45 MA's), (51, 31351), (52, 31348), (95, 31060),

Gene: Ravana_51 Start: 31221, Stop: 30943, Start Num: 57
Candidate Starts for Ravana_51:
(Start: 30 @31314 has 1 MA's), (Start: 57 @31221 has 24 MA's), (73, 31137), (90, 31026),

Gene: ReMo_49 Start: 30626, Stop: 30333, Start Num: 57

Candidate Starts for ReMo_49:
(Start: 57 @30626 has 24 MA's), (80, 30509), (90, 30416),

Gene: Rebeuca_45 Start: 31840, Stop: 31502, Start Num: 46
Candidate Starts for Rebeuca_45:
(11, 31984), (21, 31933), (Start: 46 @31840 has 5 MA's), (80, 31690), (81, 31675), (88, 31597),

Gene: Refuge_46 Start: 33330, Stop: 32986, Start Num: 42
Candidate Starts for Refuge_46:
(38, 33342), (Start: 42 @33330 has 5 MA's), (55, 33288), (56, 33285), (59, 33267), (72, 33213), (73, 33201), (90, 33066), (95, 33006),

Gene: Remus_49 Start: 30309, Stop: 30016, Start Num: 57
Candidate Starts for Remus_49:
(Start: 57 @30309 has 24 MA's), (80, 30192), (90, 30099),

Gene: Roary_45 Start: 31159, Stop: 30863, Start Num: 58
Candidate Starts for Roary_45:
(40, 31225), (Start: 58 @31159 has 11 MA's), (69, 31108), (93, 30922),

Gene: Rosalind_48 Start: 30512, Stop: 30219, Start Num: 57
Candidate Starts for Rosalind_48:
(Start: 57 @30512 has 24 MA's), (80, 30395), (90, 30302),

Gene: RyeScarlet_47 Start: 32133, Stop: 31807, Start Num: 31
Candidate Starts for RyeScarlet_47:
(Start: 31 @32133 has 45 MA's), (39, 32109), (52, 32067), (95, 31827),

Gene: Sachima_47 Start: 32043, Stop: 31717, Start Num: 31
Candidate Starts for Sachima_47:
(Start: 31 @32043 has 45 MA's), (39, 32019), (52, 31977), (95, 31737),

Gene: Saintus_39 Start: 27880, Stop: 27593, Start Num: 58
Candidate Starts for Saintus_39:
(Start: 58 @27880 has 11 MA's), (59, 27871), (69, 27829), (93, 27643),

Gene: Scherzo_47 Start: 32347, Stop: 32021, Start Num: 31
Candidate Starts for Scherzo_47:
(Start: 31 @32347 has 45 MA's), (39, 32323), (52, 32281), (95, 32041),

Gene: ShayRa_51 Start: 30830, Stop: 30537, Start Num: 57
Candidate Starts for ShayRa_51:
(Start: 57 @30830 has 24 MA's), (80, 30713), (90, 30620),

Gene: SheaKeira_46 Start: 31684, Stop: 31340, Start Num: 32
Candidate Starts for SheaKeira_46:
(Start: 32 @31684 has 3 MA's), (37, 31669), (39, 31663), (52, 31621), (65, 31579), (73, 31546), (95, 31360), (96, 31351),

Gene: Sheen_47 Start: 34109, Stop: 33846, Start Num: 48
Candidate Starts for Sheen_47:
(Start: 48 @34109 has 1 MA's), (60, 34067), (64, 34058), (76, 34010), (85, 33998), (88, 33941), (95, 33869),

Gene: Smeadley_45 Start: 31325, Stop: 31029, Start Num: 58
Candidate Starts for Smeadley_45:
(40, 31391), (Start: 58 @31325 has 11 MA's), (69, 31274), (93, 31088),

Gene: SmellyB_49 Start: 31137, Stop: 30709, Start Num: 17
Candidate Starts for SmellyB_49:
(13, 31164), (Start: 17 @31137 has 9 MA's), (43, 31041), (55, 31005), (74, 30915), (79, 30888), (80, 30885), (95, 30729),

Gene: SororFago_50 Start: 33759, Stop: 33412, Start Num: 31
Candidate Starts for SororFago_50:
(25, 33783), (Start: 31 @33759 has 45 MA's), (73, 33624), (74, 33618), (90, 33492), (95, 33432),

Gene: Soups_50 Start: 30829, Stop: 30536, Start Num: 57
Candidate Starts for Soups_50:
(Start: 57 @30829 has 24 MA's), (80, 30712), (90, 30619),

Gene: Spouty_47 Start: 32175, Stop: 31849, Start Num: 31
Candidate Starts for Spouty_47:
(Start: 31 @32175 has 45 MA's), (39, 32151), (52, 32109), (95, 31869),

Gene: Steamy_43 Start: 31608, Stop: 31282, Start Num: 47
Candidate Starts for Steamy_43:
(14, 31740), (28, 31668), (45, 31614), (Start: 47 @31608 has 1 MA's), (70, 31515), (72, 31509), (73, 31497), (90, 31362),

Gene: Stephig9_45 Start: 31163, Stop: 30888, Start Num: 58
Candidate Starts for Stephig9_45:
(40, 31229), (Start: 58 @31163 has 11 MA's), (59, 31154), (68, 31118), (89, 30986), (91, 30965),

Gene: Strosahl_49 Start: 30309, Stop: 30016, Start Num: 57
Candidate Starts for Strosahl_49:
(Start: 57 @30309 has 24 MA's), (80, 30192), (90, 30099),

Gene: Sunhee_50 Start: 32074, Stop: 31730, Start Num: 34
Candidate Starts for Sunhee_50:
(Start: 34 @32074 has 1 MA's), (51, 32020), (67, 31978), (74, 31936), (90, 31810), (95, 31750),

Gene: Switzerland_49 Start: 30692, Stop: 30399, Start Num: 57
Candidate Starts for Switzerland_49:
(Start: 57 @30692 has 24 MA's), (80, 30575), (90, 30482),

Gene: Timshel_45 Start: 33822, Stop: 33541, Start Num: 42
Candidate Starts for Timshel_45:
(11, 33957), (Start: 42 @33822 has 5 MA's), (66, 33759), (77, 33702), (86, 33672), (95, 33564),

Gene: Toaka_46 Start: 31676, Stop: 31308, Start Num: 31
Candidate Starts for Toaka_46:
(Start: 31 @31676 has 45 MA's), (39, 31652), (52, 31610), (95, 31328), (96, 31319),

Gene: Topanga_43 Start: 31489, Stop: 31151, Start Num: 46
Candidate Starts for Topanga_43:

(11, 31633), (21, 31582), (Start: 46 @31489 has 5 MA's), (80, 31339), (81, 31324), (88, 31246),

Gene: Tubs_47 Start: 32109, Stop: 31783, Start Num: 31
Candidate Starts for Tubs_47:
(Start: 31 @32109 has 45 MA's), (39, 32085), (52, 32043), (95, 31803),

Gene: Twister_43 Start: 31400, Stop: 31062, Start Num: 46
Candidate Starts for Twister_43:
(11, 31544), (21, 31493), (Start: 46 @31400 has 5 MA's), (80, 31250), (81, 31235), (88, 31157),

Gene: Ugenie5_44 Start: 32346, Stop: 32020, Start Num: 31
Candidate Starts for Ugenie5_44:
(Start: 31 @32346 has 45 MA's), (39, 32322), (52, 32280), (95, 32040),

Gene: Vanisoa_46 Start: 32705, Stop: 32358, Start Num: 31
Candidate Starts for Vanisoa_46:
(7, 32888), (8, 32837), (9, 32813), (Start: 31 @32705 has 45 MA's), (39, 32681), (52, 32639), (59, 32609), (95, 32378),

Gene: VohminGhazi_49 Start: 31138, Stop: 30710, Start Num: 17
Candidate Starts for VohminGhazi_49:
(13, 31165), (Start: 17 @31138 has 9 MA's), (43, 31042), (55, 31006), (74, 30916), (79, 30889), (80, 30886), (95, 30730),

Gene: Waits_49 Start: 30481, Stop: 30188, Start Num: 57
Candidate Starts for Waits_49:
(Start: 57 @30481 has 24 MA's), (80, 30364), (90, 30271),

Gene: WalterMcMickey_43 Start: 31400, Stop: 31062, Start Num: 46
Candidate Starts for WalterMcMickey_43:
(11, 31544), (21, 31493), (Start: 46 @31400 has 5 MA's), (80, 31250), (81, 31235), (88, 31157),

Gene: Warrior24_50 Start: 30688, Stop: 30395, Start Num: 57
Candidate Starts for Warrior24_50:
(Start: 57 @30688 has 24 MA's), (80, 30571), (90, 30478),

Gene: WorldCup_45 Start: 31405, Stop: 31034, Start Num: 31
Candidate Starts for WorldCup_45:
(7, 31591), (8, 31540), (9, 31516), (Start: 31 @31405 has 45 MA's), (51, 31345), (52, 31342), (95, 31054),

Gene: XianYue_46 Start: 31886, Stop: 31548, Start Num: 41
Candidate Starts for XianYue_46:
(Start: 41 @31886 has 1 MA's), (81, 31712), (93, 31595),

Gene: Yecey3_48 Start: 31582, Stop: 31238, Start Num: 30
Candidate Starts for Yecey3_48:
(Start: 30 @31582 has 1 MA's), (39, 31561), (52, 31519), (65, 31477), (73, 31444), (95, 31258),

Gene: Zimmer_44 Start: 32823, Stop: 32467, Start Num: 42
Candidate Starts for Zimmer_44:
(Start: 42 @32823 has 5 MA's), (55, 32781), (72, 32706), (73, 32694), (75, 32676), (90, 32547), (95, 32487),