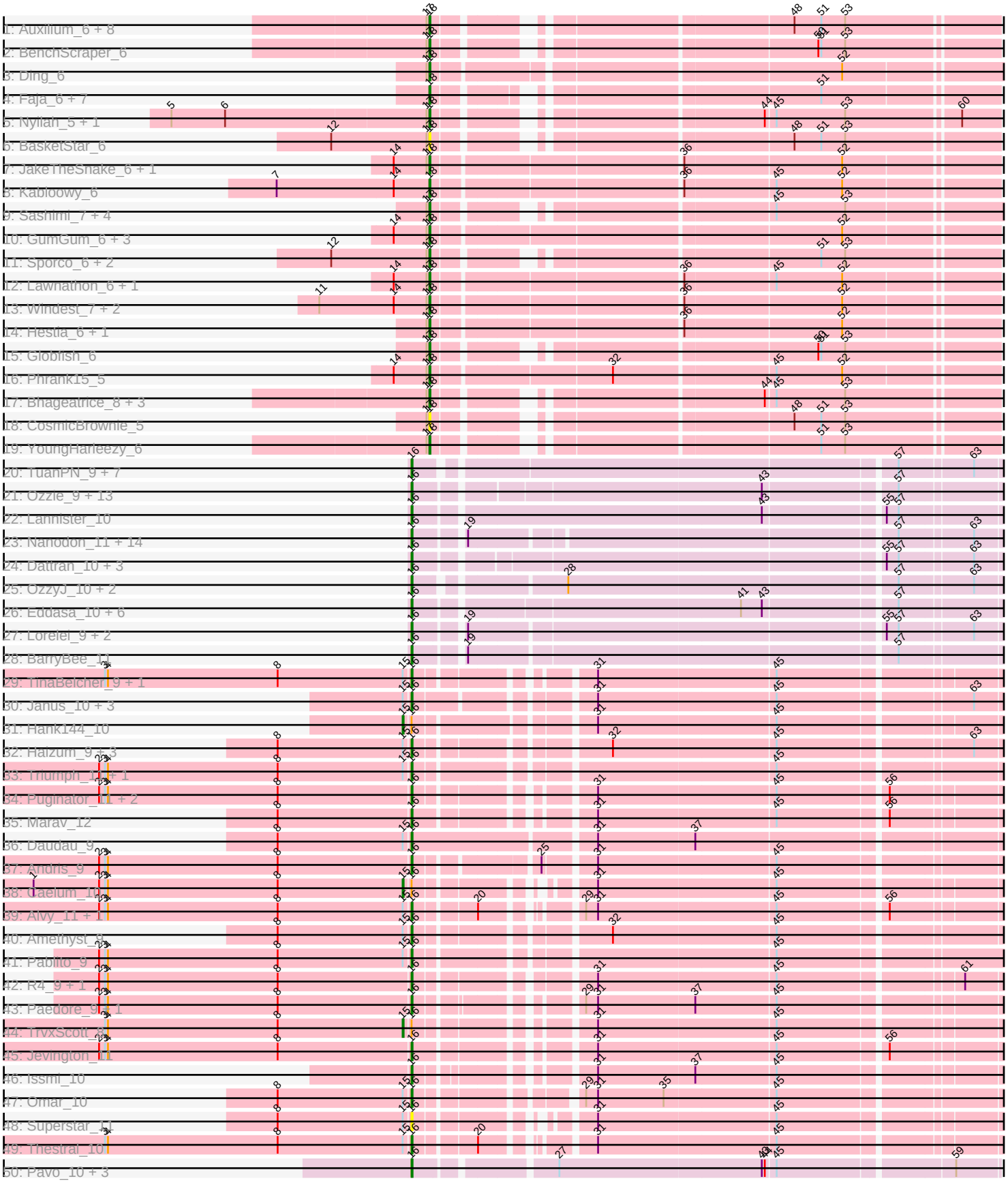
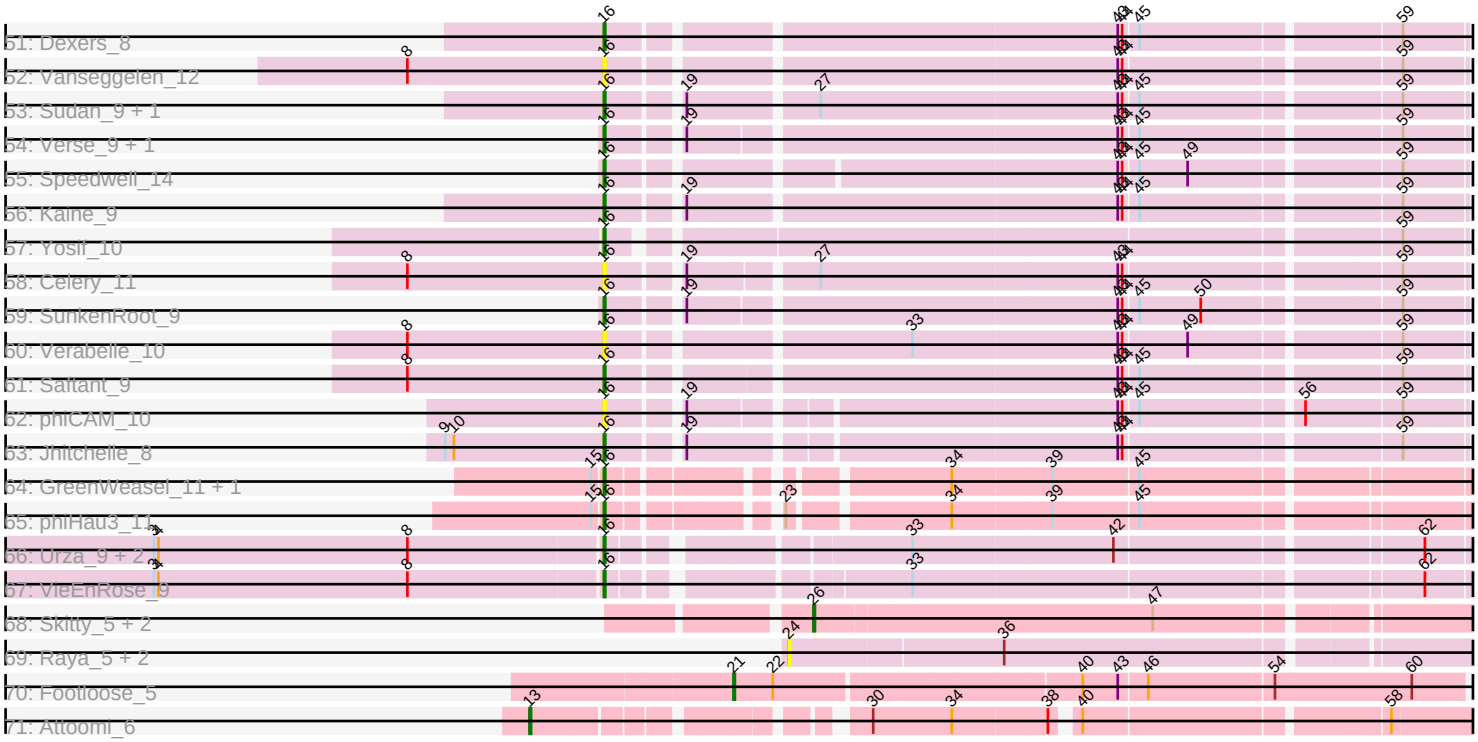
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1: Auxilium_6 + 8
2: BenchScraper_6
3: Ding_6
4: Faja_6 + 7
5: Nyllah_5 + 1
6: BasketStar_6
7: JakeTheSnake_6 + 1
8: Kabloowy_6
9: Sashimi_7 + 4
10: GumGum_6 + 3
11: Sporco_6 + 2
12: Lawnathon_6 + 1
13: Windest_7 + 2
14: Hestia_6 + 1
15: Globfish_6
16: Phrank15_5
17: Bhageatrice_8 + 3
18: CosmicBrownie_5
19: YoungHaneezy_6
20: TuanPN_9 + 7
21: Ozzie_9 + 13
22: Lannister_10
23: Nanodon_11 + 14
24: Dattran_10 + 3
25: OzzyJ_10 + 2
26: Eddasa_10 + 6
27: Lorelei_9 + 2
28: BarryBee_10
29: TinaBelcher_9 + 1
30: Janus_10 + 3
31: Hank144_10
32: Haizum_9 + 3
33: Triumph_11 + 1
34: Puginator_11 + 2
35: Marav_12
36: Daudau_9
37: Andris_9
38: Daelum_10
39: Alvy_11 + 1
40: Amethyst_8
41: Pablito_9
42: R4_9 + 1
43: Paedore_9 + 1
44: TrvxScott_8
45: Jevington_11
46: Issmi_10
47: Omar_10
48: Superstar_11
49: Thestral_10
50: Pavo_10 + 3

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51: Dexers_8
52: Vanseggelen_12
53: Sudan_9 + 1
54: Verse_9 + 1
55: Speedwell_14
56: Kaine_9
57: Yosif_10
58: Celery_11
59: SunkenRoot_9
60: Verabelle_10
61: Saltant_9
62: phiCAM_10
63: Jhitchelle_8
64: GreenWeasel_11 + 1
65: phiHau3_11
66: Urza_9 + 2
67: VieEnRose_9
68: Skitty_5 + 2
69: Raya_5 + 2
70: Footloose_5
71: Attoomi_6

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 347299 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 347299 has 176 members, 19 are drafts.

Phages represented in each track:
• Track 1 : Auxilium_6, MUWow_5, AdaS_6, BillyTP_6, JellyBread_6, Richie_6, CookieBear_6, Lasker_6, Raphaella_6
• Track 2 : BenchScraper_6
• Track 3 : Ding_6
• Track 4 : Faja_6, BlueShadow_6, MidnightRain_6, RadFad_6, Hillester_6, Aikyam_6, SonDevVon_5, MaterMagnus_6
• Track 5 : Nyilah_5, Tiff81_7
• Track 6 : BasketStar_6
• Track 7 : JakeTheSnake_6, Persistence_5
• Track 8 : Kabloowy_6
• Track 9 : Sashimi_7, LeBruni_6, EvePickles_6, Satrap_6, Shukran_6
• Track 10 : GumGum_6, DarwinJr_9, Anekin_5, Crescenzo_6
• Track 11 : Sporco_6, SpicyFrank_6, NewKitty_7
• Track 12 : Lawnathon_6, Mapleville_5
• Track 13 : Windest_7, Isolde_7, Vopal_7
• Track 14 : Hestia_6, ThayneTheZag_6
• Track 15 : Globfish_6
• Track 16 : Phrank15_5
• Track 17 : Bhageatrice_8, Gorpy_6, Sakai_6, MurphyJoseph_6
• Track 18 : CosmicBrownie_5
• Track 19 : YoungHarleezy_6
• Track 20 : TuanPN_9, Yasdnil_9, Maneekul_9, Celeste_9, Ejemplo_9, Zemlya_10, Godpower_10, Lika_9
• Track 21 : Ozzie_9, Nerdos_9, Leviticus_9, Bovely_9, SunsetPointe_9, Hydra_11, Phettuccine_9, Aaronocolus_9, Legacy_9, Indigo_9, Unstoppable_9, BeardedLady_10, Esperer_9, Caliburn_9
• Track 22 : Lannister_10
• Track 23 : Nanodon_11, SarahRose_9, Brataylor_10, Chucky_9, Snorlax_9, Dwayne_9, Emaanora_11, Werner_9, Katalie_10, RedBear_11, Sujidade_10, Hippo_9, South40_10, TagePhighter_10, Whatever_9
• Track 24 : Dattran_10, Goby_9, Danzina_10, Toma_9
• Track 25 : OzzyJ_10, Asten_9, Triste_9

• Track 26 : Eddasa_10, BryanRecycles_10, Oliynyk_10, Rusticus_10, EnochSoames_10, Izzy_10, Jash_10
• Track 27 : Lorelei_9, Nabi_9, Rana_9
• Track 28 : BarryBee_11
• Track 29 : TinaBelcher_9, Bowden_10
• Track 30 : Janus_10, SqueakyClean_10, Animus_10, GirlDinner_9
• Track 31 : Hank144_10
• Track 32 : Haizum_9, Tefunt_9, Nishikigoi_9, Diane_9
• Track 33 : Triumph_11, Axiom_10
• Track 34 : Puginator_11, Zainub_11, Paolo_11
• Track 35 : Marav_12
• Track 36 : Daudau_9
• Track 37 : Andris_9
• Track 38 : Caelum_10
• Track 39 : Alvy_11, BartholomewSD_11
• Track 40 : Amethyst_9
• Track 41 : Pablito_9
• Track 42 : R4_9, ELB20_08
• Track 43 : Paedore_9, Loofah_10
• Track 44 : TrvxScott_8
• Track 45 : Jevington_11
• Track 46 : Issmi_10
• Track 47 : Omar_10
• Track 48 : Superstar_11
• Track 49 : Thestral_10
• Track 50 : Pavo_10, Conan_10, ElGato_10, Provolone_10
• Track 51 : Dexers_8
• Track 52 : Vanseggelen_12
• Track 53 : Sudan_9, Alsaber_10
• Track 54 : Verse_9, Amela_9
• Track 55 : Speedwell_14
• Track 56 : Kaine_9
• Track 57 : Yosif_10
• Track 58 : Celery_11
• Track 59 : SunkenRoot_9
• Track 60 : Verabelle_10
• Track 61 : Saftant_9
• Track 62 : phiCAM_10
• Track 63 : Jhitchelle_8
• Track 64 : GreenWeasel_11, BroPlease_10
• Track 65 : phiHau3_11
• Track 66 : Urza_9, Celia_9, Itza_9
• Track 67 : VieEnRose_9
• Track 68 : Skitty_5, Merpity_6, MrSmee_5
• Track 69 : Raya_5, Neroxid_5, Skyerus_5
• Track 70 : Footloose_5
• Track 71 : Attoomi_6

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

The start number called the most often in the published annotations is 16, it was called in 107 of the 157 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aaronocolus_9, Alsaber_10, Alvy_11, Amela_9, Amethyst_9, Andris_9, Animus_10, Asten_9, Axiom_10, BarryBee_11, BartholomewSD_11, BeardedLady_10, Bovely_9, Bowden_10, Brataylor_10, BroPlease_10, BryanRecycles_10, Caliburn_9, Celery_11, Celeste_9, Celia_9, Chucky_9, Conan_10, Danzina_10, Dattran_10, Daudau_9, Dexers_8, Diane_9, Dwayne_9, ELB20_08, Eddasa_10, Ejemplo_9, ElGato_10, Emaanora_11, EnochSoames_10, Esperer_9, GirlDinner_9, Goby_9, Godpower_10, GreenWeasel_11, Haizum_9, Hippo_9, Hydra_11, Indigo_9, Issmi_10, Itza_9, Izzy_10, Janus_10, Jash_10, Jevington_11, Jhitchelle_8, Kaine_9, Katalie_10, Lannister_10, Legacy_9, Leviticus_9, Lika_9, Loofah_10, Lorelei_9, Maneekul_9, Marav_12, Nabi_9, Nanodon_11, Nerdos_9, Nishikigoi_9, Oliynyk_10, Omar_10, Ozzie_9, OzzyJ_10, Pablito_9, Paedore_9, Paolo_11, Pavo_10, Phettuccine_9, Provolone_10, Puginator_11, R4_9, Rana_9, RedBear_11, Rusticus_10, Saftant_9, SarahRose_9, Snorlax_9, South40_10, Speedwell_14, SqueakyClean_10, Sudan_9, Sujidade_10, SunkenRoot_9, SunsetPointe_9, Superstar_11, TagePhighter_10, Tefunt_9, Thestral_10, TinaBelcher_9, Toma_9, Triste_9, Triumph_11, TuanPN_9, Unstoppable_9, Urza_9, Vanseggelen_12, Verabelle_10, Verse_9, VieEnRose_9, Werner_9, Whatever_9, Yasdnil_9, Yosif_10, Zainub_11, Zemlya_10, phiCAM_10, phiHau3_11,

Genes that have the "Most Annotated" start but do not call it:
• Caelum_10, Hank144_10, TrvxScott_8,

Genes that do not have the "Most Annotated" start:
• AdaS_6, Aikyam_6, Anekin_5, Attoomi_6, Auxilium_6, BasketStar_6, BenchScraper_6, Bhageatrice_8, BillyTP_6, BlueShadow_6, CookieBear_6, CosmicBrownie_5, Crescenzo_6, DarwinJr_9, Ding_6, EvePickles_6, Faja_6, Footloose_5, Globfish_6, Gorpy_6, GumGum_6, Hestia_6, Hillester_6, Isolde_7, JakeTheSnake_6, JellyBread_6, Kabloowy_6, Lasker_6, Lawnathon_6, LeBruni_6, MUWow_5, Mapleville_5, MaterMagnus_6, Merpity_6, MidnightRain_6, MrSmee_5, MurphyJoseph_6, Neroxid_5, NewKitty_7, Nyilah_5, Persistence_5, Phrank15_5, RadFad_6, Raphaella_6, Raya_5, Richie_6, Sakai_6, Sashimi_7, Satrap_6, Shukran_6, Skitty_5, Skyerus_5, SonDevVon_5, SpicyFrank_6, Sporco_6, ThayneTheZag_6, Tiff81_7, Vopal_7, Windest_7, YoungHarleezy_6,

Summary by start number:

Start 13:
• Found in 1 of 176 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 157
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Attoomi_6 (singleton),

Start 15:
• Found in 26 of 176 (14.8%) of genes in pham
• Manual Annotations of this start: 3 of 157
• Called 11.5% of time when present
• Phage (with cluster) where this start called: Caelum_10 (BD2), Hank144_10 (BD2), TrvxScott_8 (BD2),

Start 16:
• Found in 116 of 176 (65.9%) of genes in pham
• Manual Annotations of this start: 107 of 157
• Called 97.4% of time when present
• Phage (with cluster) where this start called: Aaronocolus_9 (BD1), Alsaber_10 (BD3), Alvy_11 (BD2), Amela_9 (BD3), Amethyst_9 (BD2), Andris_9 (BD2), Animus_10 (BD2), Asten_9 (BD1), Axiom_10 (BD2), BarryBee_11 (BD1), BartholomewSD_11 (BD2), BeardedLady_10 (BD1), Bovely_9 (BD1), Bowden_10 (BD2), Brataylor_10 (BD1), BroPlease_10 (BD4), BryanRecycles_10 (BD1), Caliburn_9 (BD1), Celery_11 (BD3), Celeste_9 (BD1), Celia_9 (BD6), Chucky_9 (BD1), Conan_10 (BD3), Danzina_10 (BD1), Dattran_10 (BD1), Daudau_9 (BD2), Dexers_8 (BD3), Diane_9 (BD2), Dwayne_9 (BD1), ELB20_08 (BD2), Eddasa_10 (BD1), Ejemplo_9 (BD1), ElGato_10 (BD3), Emaanora_11 (BD1), EnochSoames_10 (BD1), Esperer_9 (BD1), GirlDinner_9 (BD2), Goby_9 (BD1), Godpower_10 (BD1), GreenWeasel_11 (BD4), Haizum_9 (BD2), Hippo_9 (BD1), Hydra_11 (BD1), Indigo_9 (BD1), Issmi_10 (BD2), Itza_9 (BD6), Izzy_10 (BD1), Janus_10 (BD2), Jash_10 (BD1), Jevington_11 (BD2), Jhitchelle_8 (BD3), Kaine_9 (BD3), Katalie_10 (BD1), Lannister_10 (BD1), Legacy_9 (BD1), Leviticus_9 (BD1), Lika_9 (BD1), Loofah_10 (BD2), Lorelei_9 (BD1), Maneekul_9 (BD1), Marav_12 (BD2), Nabi_9 (BD1), Nanodon_11 (BD1), Nerdos_9 (BD1), Nishikigoi_9 (BD2), Oliynyk_10 (BD1), Omar_10 (BD2), Ozzie_9 (BD1), OzzyJ_10 (BD1), Pablito_9 (BD2), Paedore_9 (BD2), Paolo_11 (BD2), Pavo_10 (BD3), Phettuccine_9 (BD1), Provolone_10 (BD3), Puginator_11 (BD2), R4_9 (BD2), Rana_9 (BD1), RedBear_11 (BD1), Rusticus_10 (BD1), Saftant_9 (BD3), SarahRose_9 (BD1), Snorlax_9 (BD1), South40_10 (BD1), Speedwell_14 (BD3), SqueakyClean_10 (BD2), Sudan_9 (BD3), Sujidade_10 (BD1), SunkenRoot_9 (BD3), SunsetPointe_9 (BD1), Superstar_11 (BD2), TagePhighter_10 (BD1), Tefunt_9 (BD2), Thestral_10 (BD2), TinaBelcher_9 (BD2), Toma_9 (BD1), Triste_9 (BD1), Triumph_11 (BD2), TuanPN_9 (BD1), Unstoppable_9 (BD1), Urza_9 (BD6), Vanseggelen_12 (BD3), Verabelle_10 (BD3), Verse_9 (BD3), VieEnRose_9 (BD6), Werner_9 (BD1), Whatever_9 (BD1), Yasdnil_9 (BD1), Yosif_10 (BD3), Zainub_11 (BD2), Zemlya_10 (BD1), phiCAM_10 (BD3), phiHau3_11 (BD4),

Start 18:
• Found in 52 of 176 (29.5%) of genes in pham
• Manual Annotations of this start: 43 of 157
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AdaS_6 (AY), Aikyam_6 (AY), Anekin_5 (AY), Auxilium_6 (AY), BasketStar_6 (AY), BenchScraper_6 (AY), Bhageatrice_8 (AY), BillyTP_6 (AY), BlueShadow_6 (AY), CookieBear_6 (AY), CosmicBrownie_5 (AY), Crescenzo_6 (AY), DarwinJr_9 (AY), Ding_6 (AY), EvePickles_6 (AY), Faja_6 (AY), Globfish_6 (AY), Gorpy_6 (AY), GumGum_6 (AY), Hestia_6 (AY), Hillester_6 (AY), Isolde_7 (AY), JakeTheSnake_6 (AY), JellyBread_6 (AY), Kabloowy_6 (AY), Lasker_6 (AY), Lawnathon_6 (AY), LeBruni_6 (AY), MUWow_5 (AY), Mapleville_5 (AY), MaterMagnus_6 (AY), MidnightRain_6 (AY), MurphyJoseph_6 (AY), NewKitty_7 (AY), Nyilah_5 (AY), Persistence_5 (AY), Phrank15_5 (AY), RadFad_6 (AY), Raphaella_6 (AY), Richie_6 (AY), Sakai_6 (AY), Sashimi_7 (AY), Satrap_6 (AY), Shukran_6 (AY), SonDevVon_5 (AY), SpicyFrank_6 (AY), Sporco_6 (AY), ThayneTheZag_6 (AY), Tiff81_7 (AY), Vopal_7 (AY), Windest_7 (AY), YoungHarleezy_6 (AY),

Start 21:
• Found in 1 of 176 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 157

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Footloose_5 (singleton),

Start 24:
• Found in 3 of 176 (1.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Neroxid_5 (FQ2), Raya_5 (FQ2), Skyerus_5 (FQ2),

Start 26:
• Found in 3 of 176 (1.7%) of genes in pham
• Manual Annotations of this start: 2 of 157
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Merpity_6 (FQ1), MrSmee_5 (FQ1), Skitty_5 (FQ1),

Summary by clusters:

There are 9 clusters represented in this pham: singleton, FQ2, BD4, BD6, BD1, BD3, BD2, AY, FQ1,

Info for manual annotations of cluster AY:
•Start number 18 was manually annotated 43 times for cluster AY.

Info for manual annotations of cluster BD1:
•Start number 16 was manually annotated 55 times for cluster BD1.

Info for manual annotations of cluster BD2:
•Start number 15 was manually annotated 3 times for cluster BD2.
•Start number 16 was manually annotated 30 times for cluster BD2.

Info for manual annotations of cluster BD3:
•Start number 16 was manually annotated 15 times for cluster BD3.

Info for manual annotations of cluster BD4:
•Start number 16 was manually annotated 3 times for cluster BD4.

Info for manual annotations of cluster BD6:
•Start number 16 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster FQ1:
•Start number 26 was manually annotated 2 times for cluster FQ1.

Gene Information:

Gene: Aaronocolus_9 Start: 6636, Stop: 7181, Start Num: 16
Candidate Starts for Aaronocolus_9:
(Start: 16 @6636 has 107 MA's), (43, 6960), (57, 7083),

Gene: AdaS_6 Start: 4952, Stop: 5458, Start Num: 18
Candidate Starts for AdaS_6:
(17, 4949), (Start: 18 @4952 has 43 MA's), (48, 5261), (51, 5288), (53, 5312),

Gene: Aikyam_6 Start: 4944, Stop: 5444, Start Num: 18
Candidate Starts for Aikyam_6:
(Start: 18 @4944 has 43 MA's), (51, 5277),

Gene: Alsaber_10 Start: 6736, Stop: 7278, Start Num: 16
Candidate Starts for Alsaber_10:
(Start: 16 @6736 has 107 MA's), (19, 6778), (27, 6859), (43, 7060), (44, 7063), (45, 7072), (59, 7237),

Gene: Alvy_11 Start: 6598, Stop: 7116, Start Num: 16
Candidate Starts for Alvy_11:
(2, 6286), (3, 6292), (4, 6295), (8, 6466), (Start: 15 @6592 has 3 MA's), (Start: 16 @6598 has 107 MA's), (20, 6652), (29, 6724), (31, 6736), (45, 6910), (56, 7012),

Gene: Amela_9 Start: 6795, Stop: 7334, Start Num: 16
Candidate Starts for Amela_9:
(Start: 16 @6795 has 107 MA's), (19, 6837), (43, 7116), (44, 7119), (45, 7128), (59, 7293),

Gene: Amethyst_9 Start: 6407, Stop: 6937, Start Num: 16
Candidate Starts for Amethyst_9:
(8, 6275), (Start: 15 @6401 has 3 MA's), (Start: 16 @6407 has 107 MA's), (32, 6569), (45, 6728),

Gene: Andris_9 Start: 6465, Stop: 6998, Start Num: 16
Candidate Starts for Andris_9:
(2, 6153), (3, 6159), (4, 6162), (8, 6333), (Start: 16 @6465 has 107 MA's), (25, 6570), (31, 6615), (45, 6789),

Gene: Anekin_5 Start: 5066, Stop: 5599, Start Num: 18
Candidate Starts for Anekin_5:
(14, 5030), (17, 5063), (Start: 18 @5066 has 43 MA's), (52, 5453),

Gene: Animus_10 Start: 6815, Stop: 7348, Start Num: 16
Candidate Starts for Animus_10:
(Start: 15 @6809 has 3 MA's), (Start: 16 @6815 has 107 MA's), (31, 6965), (45, 7139), (63, 7319),

Gene: Asten_9 Start: 6604, Stop: 7146, Start Num: 16
Candidate Starts for Asten_9:
(Start: 16 @6604 has 107 MA's), (28, 6733), (57, 7048), (63, 7117),

Gene: Attoomi_6 Start: 5006, Stop: 5563, Start Num: 13
Candidate Starts for Attoomi_6:
(Start: 13 @5006 has 1 MA's), (30, 5189), (34, 5243), (38, 5306), (40, 5318), (58, 5510),

Gene: Auxilium_6 Start: 4952, Stop: 5458, Start Num: 18
Candidate Starts for Auxilium_6:
(17, 4949), (Start: 18 @4952 has 43 MA's), (48, 5261), (51, 5288), (53, 5312),

Gene: Axiom_10 Start: 6474, Stop: 7007, Start Num: 16
Candidate Starts for Axiom_10:

(2, 6162), (3, 6168), (4, 6171), (8, 6342), (Start: 15 @6468 has 3 MA's), (Start: 16 @6474 has 107 MA's), (45, 6798),

Gene: BarryBee_11 Start: 6604, Stop: 7149, Start Num: 16
Candidate Starts for BarryBee_11:
(Start: 16 @6604 has 107 MA's), (19, 6646), (57, 7051),

Gene: BartholomewSD_11 Start: 6598, Stop: 7116, Start Num: 16
Candidate Starts for BartholomewSD_11:
(2, 6286), (3, 6292), (4, 6295), (8, 6466), (Start: 15 @6592 has 3 MA's), (Start: 16 @6598 has 107 MA's), (20, 6652), (29, 6724), (31, 6736), (45, 6910), (56, 7012),

Gene: BasketStar_6 Start: 4991, Stop: 5497, Start Num: 18
Candidate Starts for BasketStar_6:
(12, 4892), (17, 4988), (Start: 18 @4991 has 43 MA's), (48, 5300), (51, 5327), (53, 5351),

Gene: BeardedLady_10 Start: 6883, Stop: 7428, Start Num: 16
Candidate Starts for BeardedLady_10:
(Start: 16 @6883 has 107 MA's), (43, 7207), (57, 7330),

Gene: BenchScraper_6 Start: 4952, Stop: 5458, Start Num: 18
Candidate Starts for BenchScraper_6:
(17, 4949), (Start: 18 @4952 has 43 MA's), (50, 5285), (51, 5288), (53, 5312),

Gene: Bhageatrice_8 Start: 6147, Stop: 6653, Start Num: 18
Candidate Starts for Bhageatrice_8:
(17, 6144), (Start: 18 @6147 has 43 MA's), (44, 6429), (45, 6438), (53, 6507),

Gene: BillyTP_6 Start: 4946, Stop: 5452, Start Num: 18
Candidate Starts for BillyTP_6:
(17, 4943), (Start: 18 @4946 has 43 MA's), (48, 5255), (51, 5282), (53, 5306),

Gene: BlueShadow_6 Start: 4944, Stop: 5447, Start Num: 18
Candidate Starts for BlueShadow_6:
(Start: 18 @4944 has 43 MA's), (51, 5277),

Gene: Bovely_9 Start: 6642, Stop: 7187, Start Num: 16
Candidate Starts for Bovely_9:
(Start: 16 @6642 has 107 MA's), (43, 6966), (57, 7089),

Gene: Bowden_10 Start: 6509, Stop: 7030, Start Num: 16
Candidate Starts for Bowden_10:
(3, 6203), (4, 6206), (8, 6377), (Start: 15 @6503 has 3 MA's), (Start: 16 @6509 has 107 MA's), (31, 6650), (45, 6824),

Gene: Brataylor_10 Start: 6607, Stop: 7152, Start Num: 16
Candidate Starts for Brataylor_10:
(Start: 16 @6607 has 107 MA's), (19, 6649), (57, 7054), (63, 7123),

Gene: BroPlease_10 Start: 6713, Stop: 7237, Start Num: 16
Candidate Starts for BroPlease_10:
(Start: 15 @6707 has 3 MA's), (Start: 16 @6713 has 107 MA's), (34, 6905), (39, 6971), (45, 7028),

Gene: BryanRecycles_10 Start: 6796, Stop: 7344, Start Num: 16
Candidate Starts for BryanRecycles_10:
(Start: 16 @6796 has 107 MA's), (41, 7102), (43, 7123), (57, 7246),

Gene: Caelum_10 Start: 6369, Stop: 6884, Start Num: 15
Candidate Starts for Caelum_10:
(1, 5997), (2, 6063), (3, 6069), (4, 6072), (8, 6243), (Start: 15 @6369 has 3 MA's), (Start: 16 @6375 has 107 MA's), (31, 6504), (45, 6678),

Gene: Caliburn_9 Start: 6616, Stop: 7161, Start Num: 16
Candidate Starts for Caliburn_9:
(Start: 16 @6616 has 107 MA's), (43, 6940), (57, 7063),

Gene: Celery_11 Start: 6699, Stop: 7238, Start Num: 16
Candidate Starts for Celery_11:
(8, 6564), (Start: 16 @6699 has 107 MA's), (19, 6741), (27, 6819), (43, 7020), (44, 7023), (59, 7197),

Gene: Celeste_9 Start: 6606, Stop: 7151, Start Num: 16
Candidate Starts for Celeste_9:
(Start: 16 @6606 has 107 MA's), (57, 7053), (63, 7122),

Gene: Celia_9 Start: 6927, Stop: 7451, Start Num: 16
Candidate Starts for Celia_9:
(3, 6624), (4, 6627), (8, 6798), (Start: 16 @6927 has 107 MA's), (33, 7092), (42, 7227), (62, 7419),

Gene: Chucky_9 Start: 6605, Stop: 7150, Start Num: 16
Candidate Starts for Chucky_9:
(Start: 16 @6605 has 107 MA's), (19, 6647), (57, 7052), (63, 7121),

Gene: Conan_10 Start: 6446, Stop: 6988, Start Num: 16
Candidate Starts for Conan_10:
(Start: 16 @6446 has 107 MA's), (27, 6569), (43, 6770), (44, 6773), (45, 6782), (59, 6947),

Gene: CookieBear_6 Start: 4952, Stop: 5458, Start Num: 18
Candidate Starts for CookieBear_6:
(17, 4949), (Start: 18 @4952 has 43 MA's), (48, 5261), (51, 5288), (53, 5312),

Gene: CosmicBrownie_5 Start: 5069, Stop: 5575, Start Num: 18
Candidate Starts for CosmicBrownie_5:
(17, 5066), (Start: 18 @5069 has 43 MA's), (48, 5378), (51, 5405), (53, 5429),

Gene: Crescenzo_6 Start: 4994, Stop: 5527, Start Num: 18
Candidate Starts for Crescenzo_6:
(14, 4958), (17, 4991), (Start: 18 @4994 has 43 MA's), (52, 5381),

Gene: Danzina_10 Start: 6804, Stop: 7349, Start Num: 16
Candidate Starts for Danzina_10:
(Start: 16 @6804 has 107 MA's), (55, 7239), (57, 7251), (63, 7320),

Gene: DarwinJr_9 Start: 6297, Stop: 6830, Start Num: 18
Candidate Starts for DarwinJr_9:
(14, 6261), (17, 6294), (Start: 18 @6297 has 43 MA's), (52, 6684),

Gene: Dattran_10 Start: 6605, Stop: 7150, Start Num: 16
Candidate Starts for Dattran_10:
(Start: 16 @6605 has 107 MA's), (55, 7040), (57, 7052), (63, 7121),

Gene: Daudau_9 Start: 6400, Stop: 6954, Start Num: 16
Candidate Starts for Daudau_9:
(8, 6268), (Start: 15 @6394 has 3 MA's), (Start: 16 @6400 has 107 MA's), (31, 6571), (37, 6667),

Gene: Dexers_8 Start: 6439, Stop: 6981, Start Num: 16
Candidate Starts for Dexers_8:
(Start: 16 @6439 has 107 MA's), (43, 6763), (44, 6766), (45, 6775), (59, 6940),

Gene: Diane_9 Start: 6409, Stop: 6939, Start Num: 16
Candidate Starts for Diane_9:
(8, 6277), (Start: 15 @6403 has 3 MA's), (Start: 16 @6409 has 107 MA's), (32, 6571), (45, 6730), (63, 6910),

Gene: Ding_6 Start: 4943, Stop: 5470, Start Num: 18
Candidate Starts for Ding_6:
(17, 4940), (Start: 18 @4943 has 43 MA's), (52, 5321),

Gene: Dwayne_9 Start: 6605, Stop: 7150, Start Num: 16
Candidate Starts for Dwayne_9:
(Start: 16 @6605 has 107 MA's), (19, 6647), (57, 7052), (63, 7121),

Gene: ELB20_08 Start: 6466, Stop: 6990, Start Num: 16
Candidate Starts for ELB20_08:
(2, 6154), (3, 6160), (4, 6163), (8, 6334), (Start: 16 @6466 has 107 MA's), (31, 6610), (45, 6784), (61, 6952),

Gene: Eddasa_10 Start: 6796, Stop: 7344, Start Num: 16
Candidate Starts for Eddasa_10:
(Start: 16 @6796 has 107 MA's), (41, 7102), (43, 7123), (57, 7246),

Gene: Ejemplo_9 Start: 6608, Stop: 7153, Start Num: 16
Candidate Starts for Ejemplo_9:
(Start: 16 @6608 has 107 MA's), (57, 7055), (63, 7124),

Gene: ElGato_10 Start: 6449, Stop: 6991, Start Num: 16
Candidate Starts for ElGato_10:
(Start: 16 @6449 has 107 MA's), (27, 6572), (43, 6773), (44, 6776), (45, 6785), (59, 6950),

Gene: Emaanora_11 Start: 6604, Stop: 7149, Start Num: 16
Candidate Starts for Emaanora_11:
(Start: 16 @6604 has 107 MA's), (19, 6646), (57, 7051), (63, 7120),

Gene: EnochSoames_10 Start: 6792, Stop: 7340, Start Num: 16
Candidate Starts for EnochSoames_10:
(Start: 16 @6792 has 107 MA's), (41, 7098), (43, 7119), (57, 7242),

Gene: Esperer_9 Start: 6636, Stop: 7181, Start Num: 16
Candidate Starts for Esperer_9:
(Start: 16 @6636 has 107 MA's), (43, 6960), (57, 7083),

Gene: EvePickles_6 Start: 4997, Stop: 5500, Start Num: 18
Candidate Starts for EvePickles_6:
(17, 4994), (Start: 18 @4997 has 43 MA's), (45, 5288), (53, 5357),

Gene: Faja_6 Start: 4944, Stop: 5444, Start Num: 18
Candidate Starts for Faja_6:
(Start: 18 @4944 has 43 MA's), (51, 5277),

Gene: Footloose_5 Start: 4342, Stop: 4824, Start Num: 21
Candidate Starts for Footloose_5:
(Start: 21 @4342 has 1 MA's), (22, 4369), (40, 4570), (43, 4594), (46, 4612), (54, 4696), (60, 4789),

Gene: GirlDinner_9 Start: 6478, Stop: 7011, Start Num: 16
Candidate Starts for GirlDinner_9:
(Start: 15 @6472 has 3 MA's), (Start: 16 @6478 has 107 MA's), (31, 6628), (45, 6802), (63, 6982),

Gene: Globfish_6 Start: 4997, Stop: 5503, Start Num: 18
Candidate Starts for Globfish_6:
(17, 4994), (Start: 18 @4997 has 43 MA's), (50, 5330), (51, 5333), (53, 5357),

Gene: Goby_9 Start: 6605, Stop: 7150, Start Num: 16
Candidate Starts for Goby_9:
(Start: 16 @6605 has 107 MA's), (55, 7040), (57, 7052), (63, 7121),

Gene: Godpower_10 Start: 6608, Stop: 7147, Start Num: 16
Candidate Starts for Godpower_10:
(Start: 16 @6608 has 107 MA's), (57, 7049), (63, 7118),

Gene: Gorpy_6 Start: 4946, Stop: 5452, Start Num: 18
Candidate Starts for Gorpy_6:
(17, 4943), (Start: 18 @4946 has 43 MA's), (44, 5228), (45, 5237), (53, 5306),

Gene: GreenWeasel_11 Start: 6722, Stop: 7246, Start Num: 16
Candidate Starts for GreenWeasel_11:
(Start: 15 @6716 has 3 MA's), (Start: 16 @6722 has 107 MA's), (34, 6914), (39, 6980), (45, 7037),

Gene: GumGum_6 Start: 4998, Stop: 5531, Start Num: 18
Candidate Starts for GumGum_6:
(14, 4962), (17, 4995), (Start: 18 @4998 has 43 MA's), (52, 5385),

Gene: Haizum_9 Start: 6438, Stop: 6968, Start Num: 16
Candidate Starts for Haizum_9:
(8, 6306), (Start: 15 @6432 has 3 MA's), (Start: 16 @6438 has 107 MA's), (32, 6600), (45, 6759), (63, 6939),

Gene: Hank144_10 Start: 6746, Stop: 7285, Start Num: 15
Candidate Starts for Hank144_10:
(Start: 15 @6746 has 3 MA's), (Start: 16 @6752 has 107 MA's), (31, 6905), (45, 7079),

Gene: Hestia_6 Start: 5060, Stop: 5593, Start Num: 18
Candidate Starts for Hestia_6:
(17, 5057), (Start: 18 @5060 has 43 MA's), (36, 5294), (52, 5447),

Gene: Hillester_6 Start: 4944, Stop: 5447, Start Num: 18
Candidate Starts for Hillester_6:
(Start: 18 @4944 has 43 MA's), (51, 5277),

Gene: Hippo_9 Start: 6604, Stop: 7149, Start Num: 16
Candidate Starts for Hippo_9:
(Start: 16 @6604 has 107 MA's), (19, 6646), (57, 7051), (63, 7120),

Gene: Hydra_11 Start: 7173, Stop: 7718, Start Num: 16
Candidate Starts for Hydra_11:
(Start: 16 @7173 has 107 MA's), (43, 7497), (57, 7620),

Gene: Indigo_9 Start: 6636, Stop: 7181, Start Num: 16
Candidate Starts for Indigo_9:
(Start: 16 @6636 has 107 MA's), (43, 6960), (57, 7083),

Gene: Isolde_7 Start: 4984, Stop: 5517, Start Num: 18
Candidate Starts for Isolde_7:
(11, 4873), (14, 4948), (17, 4981), (Start: 18 @4984 has 43 MA's), (36, 5218), (52, 5371),

Gene: Issmi_10 Start: 6720, Stop: 7238, Start Num: 16
Candidate Starts for Issmi_10:
(Start: 16 @6720 has 107 MA's), (31, 6858), (37, 6954), (45, 7032),

Gene: Itza_9 Start: 6850, Stop: 7374, Start Num: 16
Candidate Starts for Itza_9:
(3, 6547), (4, 6550), (8, 6721), (Start: 16 @6850 has 107 MA's), (33, 7015), (42, 7150), (62, 7342),

Gene: Izzy_10 Start: 6843, Stop: 7391, Start Num: 16
Candidate Starts for Izzy_10:
(Start: 16 @6843 has 107 MA's), (41, 7149), (43, 7170), (57, 7293),

Gene: JakeTheSnake_6 Start: 4953, Stop: 5486, Start Num: 18
Candidate Starts for JakeTheSnake_6:
(14, 4917), (17, 4950), (Start: 18 @4953 has 43 MA's), (36, 5187), (52, 5340),

Gene: Janus_10 Start: 6815, Stop: 7348, Start Num: 16
Candidate Starts for Janus_10:
(Start: 15 @6809 has 3 MA's), (Start: 16 @6815 has 107 MA's), (31, 6965), (45, 7139), (63, 7319),

Gene: Jash_10 Start: 6796, Stop: 7344, Start Num: 16
Candidate Starts for Jash_10:
(Start: 16 @6796 has 107 MA's), (41, 7102), (43, 7123), (57, 7246),

Gene: JellyBread_6 Start: 4945, Stop: 5451, Start Num: 18
Candidate Starts for JellyBread_6:
(17, 4942), (Start: 18 @4945 has 43 MA's), (48, 5254), (51, 5281), (53, 5305),

Gene: Jevington_11 Start: 7004, Stop: 7528, Start Num: 16
Candidate Starts for Jevington_11:
(2, 6692), (3, 6698), (4, 6701), (8, 6872), (Start: 16 @7004 has 107 MA's), (31, 7148), (45, 7322), (56, 7424),

Gene: Jhitchelle_8 Start: 6386, Stop: 6919, Start Num: 16
Candidate Starts for Jhitchelle_8:
(9, 6278), (10, 6284), (Start: 16 @6386 has 107 MA's), (19, 6428), (43, 6701), (44, 6704), (59, 6878),

Gene: Kabloowy_6 Start: 4995, Stop: 5528, Start Num: 18
Candidate Starts for Kabloowy_6:
(7, 4842), (14, 4959), (Start: 18 @4995 has 43 MA's), (36, 5229), (45, 5316), (52, 5382),

Gene: Kaine_9 Start: 6439, Stop: 6981, Start Num: 16
Candidate Starts for Kaine_9:
(Start: 16 @6439 has 107 MA's), (19, 6481), (43, 6763), (44, 6766), (45, 6775), (59, 6940),

Gene: Katalie_10 Start: 6876, Stop: 7421, Start Num: 16
Candidate Starts for Katalie_10:
(Start: 16 @6876 has 107 MA's), (19, 6918), (57, 7323), (63, 7392),

Gene: Lannister_10 Start: 6609, Stop: 7163, Start Num: 16
Candidate Starts for Lannister_10:
(Start: 16 @6609 has 107 MA's), (43, 6942), (55, 7053), (57, 7065),

Gene: Lasker_6 Start: 4945, Stop: 5451, Start Num: 18
Candidate Starts for Lasker_6:
(17, 4942), (Start: 18 @4945 has 43 MA's), (48, 5254), (51, 5281), (53, 5305),

Gene: Lawnathon_6 Start: 4996, Stop: 5529, Start Num: 18
Candidate Starts for Lawnathon_6:
(14, 4960), (17, 4993), (Start: 18 @4996 has 43 MA's), (36, 5230), (45, 5317), (52, 5383),

Gene: LeBruni_6 Start: 4996, Stop: 5502, Start Num: 18
Candidate Starts for LeBruni_6:
(17, 4993), (Start: 18 @4996 has 43 MA's), (45, 5287), (53, 5356),

Gene: Legacy_9 Start: 6616, Stop: 7161, Start Num: 16
Candidate Starts for Legacy_9:
(Start: 16 @6616 has 107 MA's), (43, 6940), (57, 7063),

Gene: Leviticus_9 Start: 6636, Stop: 7181, Start Num: 16
Candidate Starts for Leviticus_9:
(Start: 16 @6636 has 107 MA's), (43, 6960), (57, 7083),

Gene: Lika_9 Start: 6609, Stop: 7148, Start Num: 16
Candidate Starts for Lika_9:
(Start: 16 @6609 has 107 MA's), (57, 7050), (63, 7119),

Gene: Loofah_10 Start: 6516, Stop: 7034, Start Num: 16
Candidate Starts for Loofah_10:
(2, 6204), (3, 6210), (4, 6213), (8, 6384), (Start: 16 @6516 has 107 MA's), (29, 6642), (31, 6654), (37, 6750), (45, 6828),

Gene: Lorelei_9 Start: 6602, Stop: 7147, Start Num: 16
Candidate Starts for Lorelei_9:
(Start: 16 @6602 has 107 MA's), (19, 6644), (55, 7037), (57, 7049), (63, 7118),

Gene: MUWow_5 Start: 5024, Stop: 5530, Start Num: 18
Candidate Starts for MUWow_5:
(17, 5021), (Start: 18 @5024 has 43 MA's), (48, 5333), (51, 5360), (53, 5384),

Gene: Maneekul_9 Start: 6607, Stop: 7152, Start Num: 16
Candidate Starts for Maneekul_9:
(Start: 16 @6607 has 107 MA's), (57, 7054), (63, 7123),

Gene: Mapleville_5 Start: 5066, Stop: 5599, Start Num: 18
Candidate Starts for Mapleville_5:
(14, 5030), (17, 5063), (Start: 18 @5066 has 43 MA's), (36, 5300), (45, 5387), (52, 5453),

Gene: Marav_12 Start: 7354, Stop: 7878, Start Num: 16
Candidate Starts for Marav_12:
(8, 7222), (Start: 16 @7354 has 107 MA's), (31, 7498), (45, 7672), (56, 7774),

Gene: MaterMagnus_6 Start: 4944, Stop: 5444, Start Num: 18
Candidate Starts for MaterMagnus_6:
(Start: 18 @4944 has 43 MA's), (51, 5277),

Gene: Merpity_6 Start: 3961, Stop: 4389, Start Num: 26
Candidate Starts for Merpity_6:
(Start: 26 @3961 has 2 MA's), (47, 4189),

Gene: MidnightRain_6 Start: 4944, Stop: 5447, Start Num: 18
Candidate Starts for MidnightRain_6:
(Start: 18 @4944 has 43 MA's), (51, 5277),

Gene: MrSmee_5 Start: 3961, Stop: 4389, Start Num: 26
Candidate Starts for MrSmee_5:
(Start: 26 @3961 has 2 MA's), (47, 4189),

Gene: MurphyJoseph_6 Start: 4949, Stop: 5455, Start Num: 18
Candidate Starts for MurphyJoseph_6:
(17, 4946), (Start: 18 @4949 has 43 MA's), (44, 5231), (45, 5240), (53, 5309),

Gene: Nabi_9 Start: 6602, Stop: 7147, Start Num: 16
Candidate Starts for Nabi_9:
(Start: 16 @6602 has 107 MA's), (19, 6644), (55, 7037), (57, 7049), (63, 7118),

Gene: Nanodon_11 Start: 6798, Stop: 7337, Start Num: 16
Candidate Starts for Nanodon_11:
(Start: 16 @6798 has 107 MA's), (19, 6840), (57, 7239), (63, 7308),

Gene: Nerdos_9 Start: 6636, Stop: 7181, Start Num: 16
Candidate Starts for Nerdos_9:
(Start: 16 @6636 has 107 MA's), (43, 6960), (57, 7083),

Gene: Neroxid_5 Start: 3975, Stop: 4418, Start Num: 24
Candidate Starts for Neroxid_5:
(24, 3975), (36, 4116),

Gene: NewKitty_7 Start: 5164, Stop: 5673, Start Num: 18
Candidate Starts for NewKitty_7:
(12, 5065), (17, 5161), (Start: 18 @5164 has 43 MA's), (51, 5503), (53, 5527),

Gene: Nishikigoi_9 Start: 6438, Stop: 6968, Start Num: 16
Candidate Starts for Nishikigoi_9:
(8, 6306), (Start: 15 @6432 has 3 MA's), (Start: 16 @6438 has 107 MA's), (32, 6600), (45, 6759), (63, 6939),

Gene: Nyilah_5 Start: 5021, Stop: 5527, Start Num: 18
Candidate Starts for Nyilah_5:
(5, 4766), (6, 4820), (17, 5018), (Start: 18 @5021 has 43 MA's), (44, 5303), (45, 5312), (53, 5381), (60, 5489),

Gene: Oliynyk_10 Start: 6796, Stop: 7344, Start Num: 16
Candidate Starts for Oliynyk_10:
(Start: 16 @6796 has 107 MA's), (41, 7102), (43, 7123), (57, 7246),

Gene: Omar_10 Start: 6663, Stop: 7190, Start Num: 16
Candidate Starts for Omar_10:
(8, 6531), (Start: 15 @6657 has 3 MA's), (Start: 16 @6663 has 107 MA's), (29, 6795), (31, 6807), (35, 6873), (45, 6981),

Gene: Ozzie_9 Start: 6616, Stop: 7161, Start Num: 16
Candidate Starts for Ozzie_9:
(Start: 16 @6616 has 107 MA's), (43, 6940), (57, 7063),

Gene: OzzyJ_10 Start: 6605, Stop: 7147, Start Num: 16
Candidate Starts for OzzyJ_10:
(Start: 16 @6605 has 107 MA's), (28, 6734), (57, 7049), (63, 7118),

Gene: Pablito_9 Start: 6493, Stop: 7029, Start Num: 16
Candidate Starts for Pablito_9:
(2, 6181), (3, 6187), (4, 6190), (8, 6361), (Start: 15 @6487 has 3 MA's), (Start: 16 @6493 has 107 MA's), (45, 6817),

Gene: Paedore_9 Start: 6516, Stop: 7034, Start Num: 16
Candidate Starts for Paedore_9:
(2, 6204), (3, 6210), (4, 6213), (8, 6384), (Start: 16 @6516 has 107 MA's), (29, 6642), (31, 6654), (37, 6750), (45, 6828),

Gene: Paolo_11 Start: 7046, Stop: 7567, Start Num: 16
Candidate Starts for Paolo_11:
(2, 6734), (3, 6740), (4, 6743), (8, 6914), (Start: 16 @7046 has 107 MA's), (31, 7187), (45, 7361), (56, 7463),

Gene: Pavo_10 Start: 6719, Stop: 7261, Start Num: 16
Candidate Starts for Pavo_10:
(Start: 16 @6719 has 107 MA's), (27, 6842), (43, 7043), (44, 7046), (45, 7055), (59, 7220),

Gene: Persistence_5 Start: 5021, Stop: 5554, Start Num: 18
Candidate Starts for Persistence_5:
(14, 4985), (17, 5018), (Start: 18 @5021 has 43 MA's), (36, 5255), (52, 5408),

Gene: Phettuccine_9 Start: 6636, Stop: 7181, Start Num: 16
Candidate Starts for Phettuccine_9:
(Start: 16 @6636 has 107 MA's), (43, 6960), (57, 7083),

Gene: Phrank15_5 Start: 5067, Stop: 5600, Start Num: 18
Candidate Starts for Phrank15_5:
(14, 5031), (17, 5064), (Start: 18 @5067 has 43 MA's), (32, 5235), (45, 5388), (52, 5454),

Gene: Provolone_10 Start: 6449, Stop: 6991, Start Num: 16
Candidate Starts for Provolone_10:
(Start: 16 @6449 has 107 MA's), (27, 6572), (43, 6773), (44, 6776), (45, 6785), (59, 6950),

Gene: Puginator_11 Start: 6992, Stop: 7513, Start Num: 16
Candidate Starts for Puginator_11:
(2, 6680), (3, 6686), (4, 6689), (8, 6860), (Start: 16 @6992 has 107 MA's), (31, 7133), (45, 7307), (56, 7409),

Gene: R4_9 Start: 6477, Stop: 7001, Start Num: 16
Candidate Starts for R4_9:
(2, 6165), (3, 6171), (4, 6174), (8, 6345), (Start: 16 @6477 has 107 MA's), (31, 6621), (45, 6795), (61, 6963),

Gene: RadFad_6 Start: 4944, Stop: 5447, Start Num: 18
Candidate Starts for RadFad_6:
(Start: 18 @4944 has 43 MA's), (51, 5277),

Gene: Rana_9 Start: 6602, Stop: 7147, Start Num: 16
Candidate Starts for Rana_9:
(Start: 16 @6602 has 107 MA's), (19, 6644), (55, 7037), (57, 7049), (63, 7118),

Gene: Raphaella_6 Start: 4952, Stop: 5458, Start Num: 18
Candidate Starts for Raphaella_6:
(17, 4949), (Start: 18 @4952 has 43 MA's), (48, 5261), (51, 5288), (53, 5312),

Gene: Raya_5 Start: 3975, Stop: 4418, Start Num: 24
Candidate Starts for Raya_5:
(24, 3975), (36, 4116),

Gene: RedBear_11 Start: 6876, Stop: 7421, Start Num: 16
Candidate Starts for RedBear_11:
(Start: 16 @6876 has 107 MA's), (19, 6918), (57, 7323), (63, 7392),

Gene: Richie_6 Start: 4952, Stop: 5458, Start Num: 18
Candidate Starts for Richie_6:
(17, 4949), (Start: 18 @4952 has 43 MA's), (48, 5261), (51, 5288), (53, 5312),

Gene: Rusticus_10 Start: 6796, Stop: 7344, Start Num: 16
Candidate Starts for Rusticus_10:
(Start: 16 @6796 has 107 MA's), (41, 7102), (43, 7123), (57, 7246),

Gene: Saftant_9 Start: 6729, Stop: 7268, Start Num: 16
Candidate Starts for Saftant_9:

(8, 6594), (Start: 16 @6729 has 107 MA's), (43, 7050), (44, 7053), (45, 7062), (59, 7227),

Gene: Sakai_6 Start: 4946, Stop: 5452, Start Num: 18
Candidate Starts for Sakai_6:
(17, 4943), (Start: 18 @4946 has 43 MA's), (44, 5228), (45, 5237), (53, 5306),

Gene: SarahRose_9 Start: 6604, Stop: 7149, Start Num: 16
Candidate Starts for SarahRose_9:
(Start: 16 @6604 has 107 MA's), (19, 6646), (57, 7051), (63, 7120),

Gene: Sashimi_7 Start: 5113, Stop: 5619, Start Num: 18
Candidate Starts for Sashimi_7:
(17, 5110), (Start: 18 @5113 has 43 MA's), (45, 5404), (53, 5473),

Gene: Satrap_6 Start: 4951, Stop: 5457, Start Num: 18
Candidate Starts for Satrap_6:
(17, 4948), (Start: 18 @4951 has 43 MA's), (45, 5242), (53, 5311),

Gene: Shukran_6 Start: 4951, Stop: 5457, Start Num: 18
Candidate Starts for Shukran_6:
(17, 4948), (Start: 18 @4951 has 43 MA's), (45, 5242), (53, 5311),

Gene: Skitty_5 Start: 3961, Stop: 4389, Start Num: 26
Candidate Starts for Skitty_5:
(Start: 26 @3961 has 2 MA's), (47, 4189),

Gene: Skyerus_5 Start: 3975, Stop: 4418, Start Num: 24
Candidate Starts for Skyerus_5:
(24, 3975), (36, 4116),

Gene: Snorlax_9 Start: 6604, Stop: 7149, Start Num: 16
Candidate Starts for Snorlax_9:
(Start: 16 @6604 has 107 MA's), (19, 6646), (57, 7051), (63, 7120),

Gene: SonDevVon_5 Start: 4945, Stop: 5445, Start Num: 18
Candidate Starts for SonDevVon_5:
(Start: 18 @4945 has 43 MA's), (51, 5278),

Gene: South40_10 Start: 6876, Stop: 7421, Start Num: 16
Candidate Starts for South40_10:
(Start: 16 @6876 has 107 MA's), (19, 6918), (57, 7323), (63, 7392),

Gene: Speedwell_14 Start: 8417, Stop: 8953, Start Num: 16
Candidate Starts for Speedwell_14:
(Start: 16 @8417 has 107 MA's), (43, 8735), (44, 8738), (45, 8747), (49, 8780), (59, 8912),

Gene: SpicyFrank_6 Start: 4997, Stop: 5506, Start Num: 18
Candidate Starts for SpicyFrank_6:
(12, 4898), (17, 4994), (Start: 18 @4997 has 43 MA's), (51, 5336), (53, 5360),

Gene: Sporco_6 Start: 4997, Stop: 5503, Start Num: 18
Candidate Starts for Sporco_6:
(12, 4898), (17, 4994), (Start: 18 @4997 has 43 MA's), (51, 5333), (53, 5357),

Gene: SqueakyClean_10 Start: 6741, Stop: 7274, Start Num: 16
Candidate Starts for SqueakyClean_10:
(Start: 15 @6735 has 3 MA's), (Start: 16 @6741 has 107 MA's), (31, 6891), (45, 7065), (63, 7245),

Gene: Sudan_9 Start: 6726, Stop: 7268, Start Num: 16
Candidate Starts for Sudan_9:
(Start: 16 @6726 has 107 MA's), (19, 6768), (27, 6849), (43, 7050), (44, 7053), (45, 7062), (59, 7227),

Gene: Sujidade_10 Start: 6900, Stop: 7445, Start Num: 16
Candidate Starts for Sujidade_10:
(Start: 16 @6900 has 107 MA's), (19, 6942), (57, 7347), (63, 7416),

Gene: SunkenRoot_9 Start: 6788, Stop: 7327, Start Num: 16
Candidate Starts for SunkenRoot_9:
(Start: 16 @6788 has 107 MA's), (19, 6830), (43, 7109), (44, 7112), (45, 7121), (50, 7163), (59, 7286),

Gene: SunsetPointe_9 Start: 6635, Stop: 7180, Start Num: 16
Candidate Starts for SunsetPointe_9:
(Start: 16 @6635 has 107 MA's), (43, 6959), (57, 7082),

Gene: Superstar_11 Start: 7579, Stop: 8088, Start Num: 16
Candidate Starts for Superstar_11:
(8, 7447), (Start: 15 @7573 has 3 MA's), (Start: 16 @7579 has 107 MA's), (31, 7708), (45, 7882),

Gene: TagePhighter_10 Start: 6604, Stop: 7149, Start Num: 16
Candidate Starts for TagePhighter_10:
(Start: 16 @6604 has 107 MA's), (19, 6646), (57, 7051), (63, 7120),

Gene: Tefunt_9 Start: 6438, Stop: 6968, Start Num: 16
Candidate Starts for Tefunt_9:
(8, 6306), (Start: 15 @6432 has 3 MA's), (Start: 16 @6438 has 107 MA's), (32, 6600), (45, 6759), (63, 6939),

Gene: ThayneTheZag_6 Start: 4948, Stop: 5481, Start Num: 18
Candidate Starts for ThayneTheZag_6:
(17, 4945), (Start: 18 @4948 has 43 MA's), (36, 5182), (52, 5335),

Gene: Thestral_10 Start: 6515, Stop: 7033, Start Num: 16
Candidate Starts for Thestral_10:
(3, 6209), (4, 6212), (8, 6383), (Start: 15 @6509 has 3 MA's), (Start: 16 @6515 has 107 MA's), (20, 6569), (31, 6653), (45, 6827),

Gene: Tiff81_7 Start: 5109, Stop: 5615, Start Num: 18
Candidate Starts for Tiff81_7:
(5, 4854), (6, 4908), (17, 5106), (Start: 18 @5109 has 43 MA's), (44, 5391), (45, 5400), (53, 5469), (60, 5577),

Gene: TinaBelcher_9 Start: 6460, Stop: 6981, Start Num: 16
Candidate Starts for TinaBelcher_9:
(3, 6154), (4, 6157), (8, 6328), (Start: 15 @6454 has 3 MA's), (Start: 16 @6460 has 107 MA's), (31, 6601), (45, 6775),

Gene: Toma_9 Start: 6605, Stop: 7150, Start Num: 16
Candidate Starts for Toma_9:
(Start: 16 @6605 has 107 MA's), (55, 7040), (57, 7052), (63, 7121),

Gene: Triste_9 Start: 6605, Stop: 7147, Start Num: 16
Candidate Starts for Triste_9:
(Start: 16 @6605 has 107 MA's), (28, 6734), (57, 7049), (63, 7118),

Gene: Triumph_11 Start: 6504, Stop: 7037, Start Num: 16
Candidate Starts for Triumph_11:
(2, 6192), (3, 6198), (4, 6201), (8, 6372), (Start: 15 @6498 has 3 MA's), (Start: 16 @6504 has 107 MA's), (45, 6828),

Gene: TrvxScott_8 Start: 6455, Stop: 6982, Start Num: 15
Candidate Starts for TrvxScott_8:
(3, 6155), (4, 6158), (8, 6329), (Start: 15 @6455 has 3 MA's), (Start: 16 @6461 has 107 MA's), (31, 6602), (45, 6776),

Gene: TuanPN_9 Start: 6608, Stop: 7153, Start Num: 16
Candidate Starts for TuanPN_9:
(Start: 16 @6608 has 107 MA's), (57, 7055), (63, 7124),

Gene: Unstoppable_9 Start: 6636, Stop: 7181, Start Num: 16
Candidate Starts for Unstoppable_9:
(Start: 16 @6636 has 107 MA's), (43, 6960), (57, 7083),

Gene: Urza_9 Start: 6850, Stop: 7386, Start Num: 16
Candidate Starts for Urza_9:
(3, 6547), (4, 6550), (8, 6721), (Start: 16 @6850 has 107 MA's), (33, 7027), (42, 7162), (62, 7354),

Gene: Vanseggelen_12 Start: 6357, Stop: 6899, Start Num: 16
Candidate Starts for Vanseggelen_12:
(8, 6222), (Start: 16 @6357 has 107 MA's), (43, 6681), (44, 6684), (59, 6858),

Gene: Verabelle_10 Start: 6722, Stop: 7264, Start Num: 16
Candidate Starts for Verabelle_10:
(8, 6587), (Start: 16 @6722 has 107 MA's), (33, 6908), (43, 7046), (44, 7049), (49, 7091), (59, 7223),

Gene: Verse_9 Start: 6789, Stop: 7328, Start Num: 16
Candidate Starts for Verse_9:
(Start: 16 @6789 has 107 MA's), (19, 6831), (43, 7110), (44, 7113), (45, 7122), (59, 7287),

Gene: VieEnRose_9 Start: 6924, Stop: 7457, Start Num: 16
Candidate Starts for VieEnRose_9:
(3, 6621), (4, 6624), (8, 6795), (Start: 16 @6924 has 107 MA's), (33, 7098), (62, 7425),

Gene: Vopal_7 Start: 4984, Stop: 5517, Start Num: 18
Candidate Starts for Vopal_7:
(11, 4873), (14, 4948), (17, 4981), (Start: 18 @4984 has 43 MA's), (36, 5218), (52, 5371),

Gene: Werner_9 Start: 6605, Stop: 7150, Start Num: 16
Candidate Starts for Werner_9:
(Start: 16 @6605 has 107 MA's), (19, 6647), (57, 7052), (63, 7121),

Gene: Whatever_9 Start: 6605, Stop: 7150, Start Num: 16
Candidate Starts for Whatever_9:
(Start: 16 @6605 has 107 MA's), (19, 6647), (57, 7052), (63, 7121),

Gene: Windest_7 Start: 4984, Stop: 5517, Start Num: 18
Candidate Starts for Windest_7:
(11, 4873), (14, 4948), (17, 4981), (Start: 18 @4984 has 43 MA's), (36, 5218), (52, 5371),

Gene: Yasdnil_9 Start: 6604, Stop: 7149, Start Num: 16
Candidate Starts for Yasdnil_9:
(Start: 16 @6604 has 107 MA's), (57, 7051), (63, 7120),

Gene: Yosif_10 Start: 7092, Stop: 7634, Start Num: 16
Candidate Starts for Yosif_10:
(Start: 16 @7092 has 107 MA's), (59, 7593),

Gene: YoungHarleezy_6 Start: 4950, Stop: 5456, Start Num: 18
Candidate Starts for YoungHarleezy_6:
(17, 4947), (Start: 18 @4950 has 43 MA's), (51, 5286), (53, 5310),

Gene: Zainub_11 Start: 6992, Stop: 7513, Start Num: 16
Candidate Starts for Zainub_11:
(2, 6680), (3, 6686), (4, 6689), (8, 6860), (Start: 16 @6992 has 107 MA's), (31, 7133), (45, 7307), (56, 7409),

Gene: Zemlya_10 Start: 6604, Stop: 7149, Start Num: 16
Candidate Starts for Zemlya_10:
(Start: 16 @6604 has 107 MA's), (57, 7051), (63, 7120),

Gene: phiCAM_10 Start: 8461, Stop: 8991, Start Num: 16
Candidate Starts for phiCAM_10:
(Start: 16 @8461 has 107 MA's), (19, 8503), (43, 8773), (44, 8776), (45, 8785), (56, 8887), (59, 8950),

Gene: phiHau3_11 Start: 6678, Stop: 7202, Start Num: 16
Candidate Starts for phiHau3_11:
(Start: 15 @6672 has 3 MA's), (Start: 16 @6678 has 107 MA's), (23, 6771), (34, 6870), (39, 6936), (45, 6993),