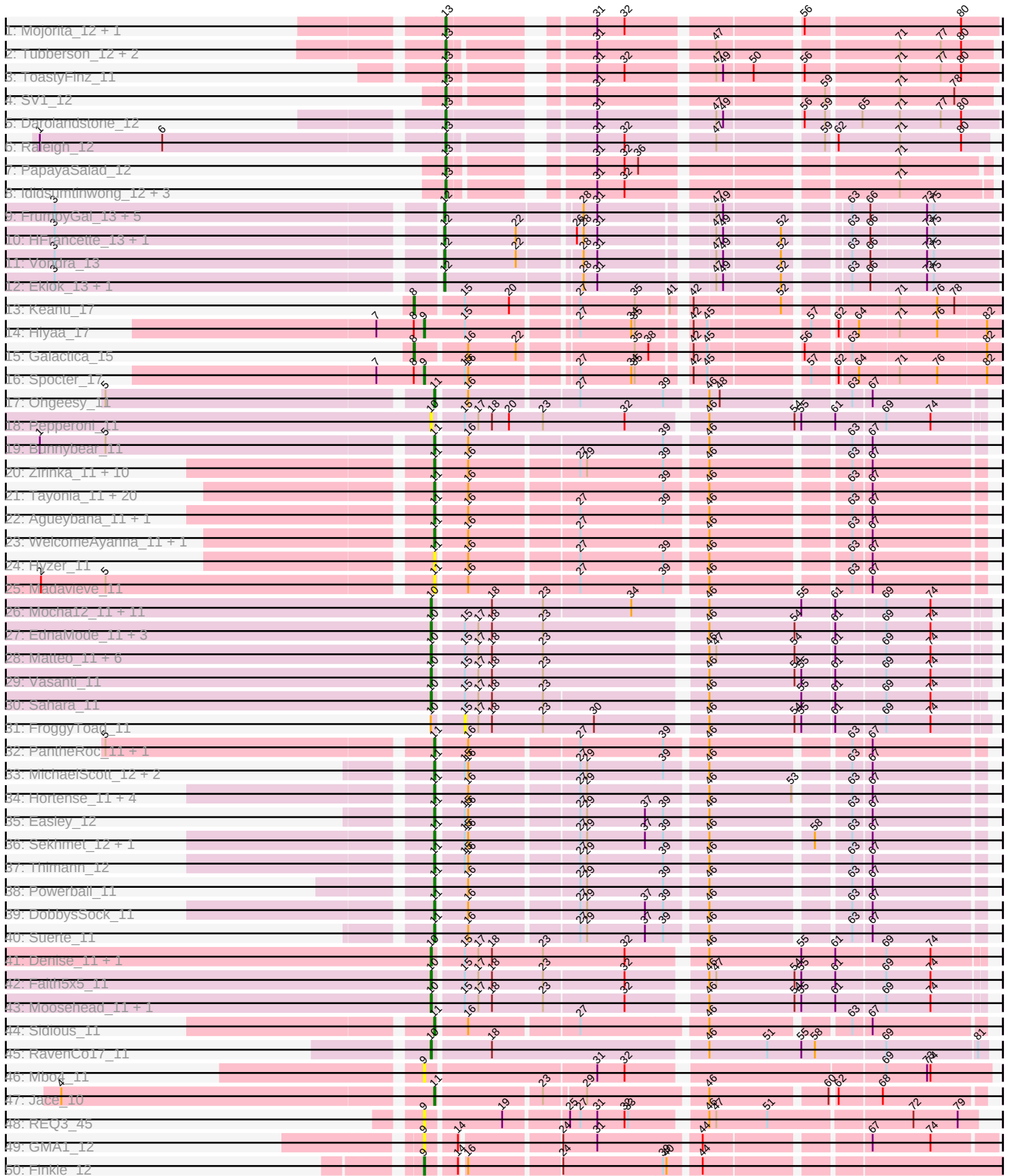
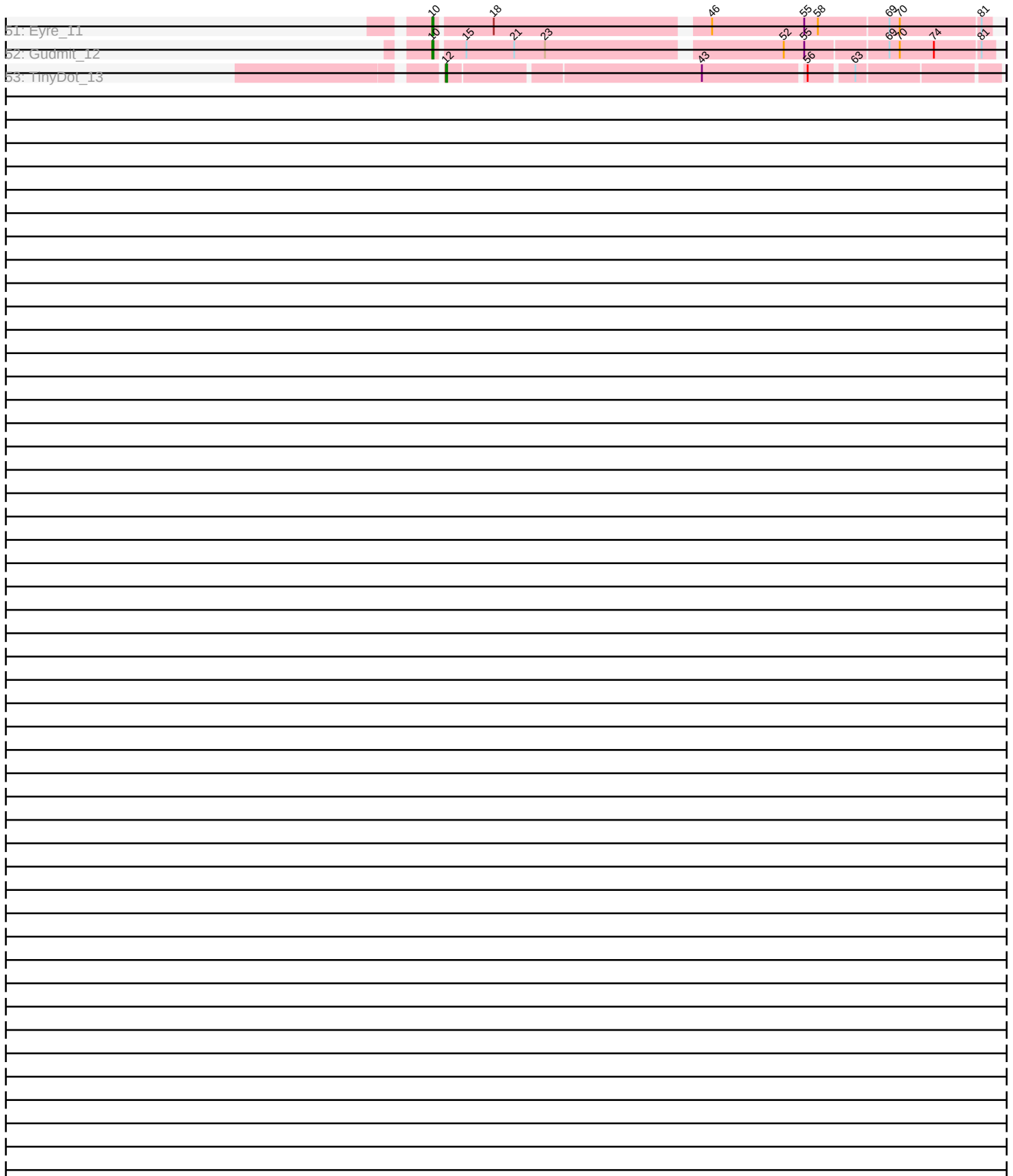


Pham 280200



Pham 280200



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 280200 Report

This analysis was run 02/07/26 on database version 634.

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 280200 has 128 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Mojorita_12, Picard_12
- Track 2 : Tubberson_12, SoJo_12, DaRealMyers_12
- Track 3 : ToastyFinz_11
- Track 4 : SV1_12
- Track 5 : Darolandstone_12
- Track 6 : Raleigh_12
- Track 7 : PapayaSalad_12
- Track 8 : Ididsumtinwong_12, Austintatious_12, Lishka_12, Bioscum_12
- Track 9 : FrumpyGal_13, Eastland_13, Cumberbatch_13, Piccadilly_13, Schlegelian_13, ArizonaGT_13
- Track 10 : HFrancette_13, Ignacio_13
- Track 11 : Vondra_13
- Track 12 : Eklok_13, AxeJC_13
- Track 13 : Keanu_17
- Track 14 : Hiya_17
- Track 15 : Galactica_15
- Track 16 : Spocter_17
- Track 17 : Ohgeesy_11
- Track 18 : Pepperoni_11
- Track 19 : Bunnybear_11
- Track 20 : Zirinka_11, Mcklovin_12, Clark_12, PhriskyACE_11, Annalisa_12, WinkNick_12, Bialota_11, Oregano_12, Dolores_12, Dorito_11, Samman98_12
- Track 21 : Tayonia_11, BatStarr_11, Neobush_11, TimTam_11, Hugley_11, Zameen_11, BaxterFox_11, Kita_11, Suscepit_11, Bosnia_11, Antonio_11, Herod_11, Eviarto_11, Manasvini_11, Maridalia_11, Polly_11, AlumE_11, Eudoria_11, BoyNamedSue_11, Nymphadora_11, Trumpet_11
- Track 22 : Agueybana_11, Madeline_11
- Track 23 : WelcomeAyanna_11, ThankyouJordi_11
- Track 24 : Hyzer_11
- Track 25 : Madavieve_11
- Track 26 : Mocha12_11, Gizermo_11, GemG_11, Whiteclaw_11, Haley23_11, TuertoX_11, Sproutie_11, Savage_11, Cynthia_11, JCole_11, Ebert_11, Clap_11
- Track 27 : EdnaMode_11, Nettuno_11, Jalleen_12, Lamberg_11

- Track 28 : Matteo_11, Attis_11, SoilAssassin_11, Bjanes7_11, Pickett_11, Yeet412_11, LordFarquaad_11
- Track 29 : Vasanti_11
- Track 30 : Sahara_11
- Track 31 : FroggyToad_11
- Track 32 : PantheRoc_11, Yeezy_11
- Track 33 : MichaelScott_12, Tuti_13, Beenie_12
- Track 34 : Hortense_11, Howe_11, Twinkle_11, Adora_11, Shlim410_11
- Track 35 : Easley_12
- Track 36 : Sekhmet_12, Invectra_12
- Track 37 : Thimann_12
- Track 38 : Powerball_11
- Track 39 : DobbysSock_11
- Track 40 : Suerte_11
- Track 41 : Denise_11, Lton_11
- Track 42 : Faith5x5_11
- Track 43 : Moosehead_11, OneDirection_11
- Track 44 : Sidious_11
- Track 45 : RavenCo17_11
- Track 46 : Mbo4_11
- Track 47 : Jace_10
- Track 48 : REQ3_45
- Track 49 : GMA1_12
- Track 50 : Finkle_12
- Track 51 : Eyre_11
- Track 52 : Gudmit_12
- Track 53 : TinyDot_13

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

The start number called the most often in the published annotations is 11, it was called in 54 of the 115 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora_11, Agueybana_11, AlumE_11, Annalisa_12, Antonio_11, BatStarr_11, BaxterFox_11, Beenie_12, Bialota_11, Bosnia_11, BoyNamedSue_11, Bunnybear_11, Clark_12, DobbysSock_11, Dolores_12, Dorito_11, Easley_12, Eudoria_11, Eviarto_11, Herod_11, Hortense_11, Howe_11, Hugley_11, Hyzer_11, Invectra_12, Jace_10, Kita_11, Madavieve_11, Madeline_11, Manasvini_11, Maridalia_11, Mcklovin_12, MichaelScott_12, Neobush_11, Nymphadora_11, Ohgeesy_11, Oregano_12, PantheRoc_11, PhriskyACE_11, Polly_11, Powerball_11, Samman98_12, Sekhmet_12, Shlim410_11, Sidious_11, Suerte_11, Suscepit_11, Tayonia_11, ThankyouJordi_11, Thimann_12, TimTam_11, Trumpet_11, Tuti_13, Twinkle_11, WelcomeAyanna_11, WinkNick_12, Yeezy_11, Zameen_11, Zirinka_11,

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

-

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

- ArizonaGT_13, Attis_11, Austintatious_12, AxeJC_13, Bioscum_12, Bjanes7_11, Clap_11, Cumberbatch_13, Cynthia_11, DaRealMyers_12, Darolandstone_12, Denise_11, Eastland_13, Ebert_11, EdnaMode_11, Eklok_13, Eyre_11, Faith5x5_11, Finkle_12, FroggyToad_11, FrumpyGal_13, GMA1_12, Galactica_15, GemG_11, Gizermo_11, Gudmit_12, HFrancette_13, Haley23_11, Hiya_17, Ididsumtinwong_12, Ignacio_13, JCole_11, Jalleen_12, Keanu_17, Lamberg_11, Lishka_12, LordFarquaad_11, Lton_11, Matteo_11, Mbo4_11, Mocha12_11, Mojarita_12, Moosehead_11, Nettuno_11, OneDirection_11, PapayaSalad_12, Pepperoni_11, Picard_12, Piccadilly_13, Pickett_11, REQ3_45, Raleigh_12, RavenCo17_11, SV1_12, Sahara_11, Savage_11, Schlegelian_13, SoJo_12, SoilAssassin_11, Spocter_17, Sproutie_11, TinyDot_13, ToastyFinz_11, Tubberson_12, TuertoX_11, Vasanti_11, Vondra_13, Whiteclaw_11, Yeet412_11,

Summary by start number:

Start 8:

- Found in 4 of 128 (3.1%) of genes in pham
- Manual Annotations of this start: 2 of 115
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Galactica_15 (BQ), Keanu_17 (BQ),

Start 9:

- Found in 6 of 128 (4.7%) of genes in pham
- Manual Annotations of this start: 3 of 115
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finkle_12 (singleton), GMA1_12 (singleton), Hiya_17 (BQ), Mbo4_11 (singleton), REQ3_45 (singleton), Spocter_17 (BQ),

Start 10:

- Found in 35 of 128 (27.3%) of genes in pham
- Manual Annotations of this start: 31 of 115
- Called 97.1% of time when present
- Phage (with cluster) where this start called: Attis_11 (CZ2), Bjanes7_11 (CZ2), Clap_11 (CZ2), Cynthia_11 (CZ2), Denise_11 (CZ5), Ebert_11 (CZ2), EdnaMode_11 (CZ2), Eyre_11 (singleton), Faith5x5_11 (CZ6), GemG_11 (CZ2), Gizermo_11 (CZ2), Gudmit_12 (singleton), Haley23_11 (CZ2), JCole_11 (CZ2), Jalleen_12 (CZ2), Lamberg_11 (CZ2), LordFarquaad_11 (CZ2), Lton_11 (CZ), Matteo_11 (CZ2), Mocha12_11 (CZ2), Moosehead_11 (CZ6), Nettuno_11 (CZ2), OneDirection_11 (CZ6), Pepperoni_11 (CZ), Pickett_11 (CZ2), RavenCo17_11 (CZ8), Sahara_11 (CZ2), Savage_11 (CZ2), SoilAssassin_11 (CZ2), Sproutie_11 (CZ2), TuertoX_11 (CZ2), Vasanti_11 (CZ2), Whiteclaw_11 (CZ2), Yeet412_11 (CZ2),

Start 11:

- Found in 59 of 128 (46.1%) of genes in pham
- Manual Annotations of this start: 54 of 115
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adora_11 (CZ4), Agueybana_11 (CZ1), AlumE_11 (CZ1), Annalisa_12 (CZ4), Antonio_11 (CZ1), BatStarr_11 (CZ1), BaxterFox_11 (CZ3), Beenie_12 (CZ4), Bialota_11 (CZ1), Bosnia_11 (CZ1), BoyNamedSue_11 (CZ1), Bunnybear_11 (CZ), Clark_12 (CZ4), DobbysSock_11 (CZ4), Dolores_12 (CZ4), Dorito_11 (CZ4), Easley_12 (CZ4), Eudoria_11 (CZ1), Eviarto_11 (CZ1), Herod_11 (CZ1), Hortense_11 (CZ4), Howe_11 (CZ4), Hugley_11

(CZ1), Hyzer_11 (CZ1), Invectra_12 (CZ4), Jace_10 (singleton), Kita_11 (CZ1), Madavieve_11 (CZ1), Madeline_11 (CZ1), Manasvini_11 (CZ1), Maridalia_11 (CZ1), Mcklovin_12 (CZ4), MichaelScott_12 (CZ4), Neobush_11 (CZ1), Nymphadora_11 (CZ1), Ohgeesy_11 (CZ), Oregano_12 (CZ4), PantheRoc_11 (CZ3), PhriskyACE_11 (CZ4), Polly_11 (CZ1), Powerball_11 (CZ4), Samman98_12 (CZ4), Sekhmet_12 (CZ4), Shlim410_11 (CZ4), Sidious_11 (CZ7), Suerte_11 (CZ4), Suscepit_11 (CZ1), Tayonia_11 (CZ1), ThankyouJordi_11 (CZ1), Thimann_12 (CZ4), TimTam_11 (CZ1), Trumpet_11 (CZ1), Tuti_13 (CZ4), Twinkle_11 (CZ4), WelcomeAyanna_11 (CZ1), WinkNick_12 (CZ4), Yeezy_11 (CZ3), Zameen_11 (CZ1), Zirinka_11 (CZ1),

Start 12:

- Found in 12 of 128 (9.4%) of genes in pham
- Manual Annotations of this start: 12 of 115
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArizonaGT_13 (BP), AxeJC_13 (BP), Cumberbatch_13 (BP), Eastland_13 (BP), Eklok_13 (BP), FrumpyGal_13 (BP), HFrancette_13 (BP), Ignacio_13 (BP), Piccadilly_13 (BP), Schlegelian_13 (BP), TinyDot_13 (singleton), Vondra_13 (BP),

Start 13:

- Found in 14 of 128 (10.9%) of genes in pham
- Manual Annotations of this start: 13 of 115
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Austintatious_12 (BC3), Bioscum_12 (BC3), DaRealMyers_12 (BC1), Darolandstone_12 (BC2), Ididsumtinwong_12 (BC3), Lishka_12 (BC3), Moajorita_12 (BC1), PapayaSalad_12 (BC3), Picard_12 (BC1), Raleigh_12 (BC2), SV1_12 (BC1), SoJo_12 (BC1), ToastyFinz_11 (BC1), Tubberson_12 (BC1),

Start 15:

- Found in 31 of 128 (24.2%) of genes in pham
- No Manual Annotations of this start.
- Called 3.2% of time when present
- Phage (with cluster) where this start called: FroggyToad_11 (CZ2),

Summary by clusters:

There are 15 clusters represented in this pham: singleton, CZ2, CZ3, CZ1, CZ6, CZ7, CZ4, CZ5, CZ, BP, BQ, CZ8, BC1, BC2, BC3,

Info for manual annotations of cluster BC1:

- Start number 13 was manually annotated 6 times for cluster BC1.

Info for manual annotations of cluster BC2:

- Start number 13 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:

- Start number 13 was manually annotated 5 times for cluster BC3.

Info for manual annotations of cluster BP:

- Start number 12 was manually annotated 11 times for cluster BP.

Info for manual annotations of cluster BQ:

- Start number 8 was manually annotated 2 times for cluster BQ.
- Start number 9 was manually annotated 2 times for cluster BQ.

Info for manual annotations of cluster CZ:

- Start number 10 was manually annotated 1 time for cluster CZ.
- Start number 11 was manually annotated 2 times for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 11 was manually annotated 25 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 10 was manually annotated 23 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 11 was manually annotated 3 times for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 11 was manually annotated 22 times for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 10 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:

- Start number 10 was manually annotated 3 times for cluster CZ6.

Info for manual annotations of cluster CZ7:

- Start number 11 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster CZ8:

- Start number 10 was manually annotated 1 time for cluster CZ8.

Gene Information:

Gene: Adora_11 Start: 7377, Stop: 7817, Start Num: 11

Candidate Starts for Adora_11:

(Start: 11 @7377 has 54 MA's), (16, 7401), (27, 7491), (29, 7497), (46, 7596), (53, 7668), (63, 7707), (67, 7722),

Gene: Agueybana_11 Start: 8036, Stop: 8476, Start Num: 11

Candidate Starts for Agueybana_11:

(Start: 11 @8036 has 54 MA's), (16, 8060), (27, 8150), (39, 8222), (46, 8255), (63, 8366), (67, 8381),

Gene: AlumE_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for AlumE_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Annalisa_12 Start: 7684, Stop: 8124, Start Num: 11

Candidate Starts for Annalisa_12:

(Start: 11 @7684 has 54 MA's), (16, 7708), (27, 7798), (29, 7804), (39, 7870), (46, 7903), (63, 8014), (67, 8029),

Gene: Antonio_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Antonio_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: ArizonaGT_13 Start: 8312, Stop: 8746, Start Num: 12

Candidate Starts for ArizonaGT_13:

(3, 7988), (Start: 12 @8312 has 12 MA's), (28, 8423), (31, 8435), (47, 8522), (49, 8528), (63, 8621), (66, 8636), (73, 8684), (75, 8690),

Gene: Attis_11 Start: 7161, Stop: 7622, Start Num: 10

Candidate Starts for Attis_11:

(Start: 10 @7161 has 31 MA's), (15, 7185), (17, 7197), (18, 7209), (23, 7254), (46, 7386), (47, 7392), (54, 7461), (61, 7494), (69, 7536), (74, 7575),

Gene: Austintatious_12 Start: 8176, Stop: 8589, Start Num: 13

Candidate Starts for Austintatious_12:

(Start: 13 @8176 has 13 MA's), (31, 8275), (32, 8299), (71, 8512),

Gene: AxeJC_13 Start: 8325, Stop: 8759, Start Num: 12

Candidate Starts for AxeJC_13:

(3, 8001), (Start: 12 @8325 has 12 MA's), (28, 8436), (31, 8448), (47, 8535), (49, 8541), (52, 8589), (63, 8634), (66, 8649), (73, 8697), (75, 8703),

Gene: BatStarr_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for BatStarr_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: BaxterFox_11 Start: 7383, Stop: 7823, Start Num: 11

Candidate Starts for BaxterFox_11:

(Start: 11 @7383 has 54 MA's), (16, 7407), (39, 7569), (46, 7602), (63, 7713), (67, 7728),

Gene: Beenie_12 Start: 7677, Stop: 8117, Start Num: 11

Candidate Starts for Beenie_12:

(Start: 11 @7677 has 54 MA's), (15, 7698), (16, 7701), (27, 7791), (29, 7797), (39, 7863), (46, 7896), (63, 8007), (67, 8022),

Gene: Bialota_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Bialota_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (27, 8149), (29, 8155), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Bioscum_12 Start: 8212, Stop: 8625, Start Num: 13

Candidate Starts for Bioscum_12:

(Start: 13 @8212 has 13 MA's), (31, 8311), (32, 8335), (71, 8548),

Gene: Bjaner7_11 Start: 7161, Stop: 7622, Start Num: 10

Candidate Starts for Bjaner7_11:

(Start: 10 @7161 has 31 MA's), (15, 7185), (17, 7197), (18, 7209), (23, 7254), (46, 7386), (47, 7392), (54, 7461), (61, 7494), (69, 7536), (74, 7575),

Gene: Bosnia_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Bosnia_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: BoyNamedSue_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for BoyNamedSue_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Bunnybear_11 Start: 8026, Stop: 8466, Start Num: 11

Candidate Starts for Bunnybear_11:

(1, 7693), (5, 7750), (Start: 11 @8026 has 54 MA's), (16, 8050), (39, 8212), (46, 8245), (63, 8356), (67, 8371),

Gene: Clap_11 Start: 7161, Stop: 7619, Start Num: 10

Candidate Starts for Clap_11:

(Start: 10 @7161 has 31 MA's), (18, 7209), (23, 7254), (34, 7329), (46, 7383), (55, 7464), (61, 7491), (69, 7533), (74, 7572),

Gene: Clark_12 Start: 7684, Stop: 8124, Start Num: 11

Candidate Starts for Clark_12:

(Start: 11 @7684 has 54 MA's), (16, 7708), (27, 7798), (29, 7804), (39, 7870), (46, 7903), (63, 8014), (67, 8029),

Gene: Cumberbatch_13 Start: 8312, Stop: 8746, Start Num: 12

Candidate Starts for Cumberbatch_13:

(3, 7988), (Start: 12 @8312 has 12 MA's), (28, 8423), (31, 8435), (47, 8522), (49, 8528), (63, 8621), (66, 8636), (73, 8684), (75, 8690),

Gene: Cynthia_11 Start: 7161, Stop: 7619, Start Num: 10

Candidate Starts for Cynthia_11:

(Start: 10 @7161 has 31 MA's), (18, 7209), (23, 7254), (34, 7329), (46, 7383), (55, 7464), (61, 7491), (69, 7533), (74, 7572),

Gene: DaRealMyers_12 Start: 8406, Stop: 8822, Start Num: 13

Candidate Starts for DaRealMyers_12:

(Start: 13 @8406 has 13 MA's), (31, 8505), (47, 8598), (71, 8742), (77, 8778), (80, 8796),

Gene: Darolandstone_12 Start: 8646, Stop: 9074, Start Num: 13

Candidate Starts for Darolandstone_12:

(Start: 13 @8646 has 13 MA's), (31, 8751), (47, 8844), (49, 8850), (56, 8910), (59, 8928), (65, 8955), (71, 8988), (77, 9024), (80, 9042),

Gene: Denise_11 Start: 7170, Stop: 7631, Start Num: 10

Candidate Starts for Denise_11:

(Start: 10 @7170 has 31 MA's), (15, 7194), (17, 7206), (18, 7218), (23, 7263), (32, 7335), (46, 7395), (55, 7476), (61, 7506), (69, 7548), (74, 7587),

Gene: DobbysSock_11 Start: 7176, Stop: 7616, Start Num: 11

Candidate Starts for DobbysSock_11:

(Start: 11 @7176 has 54 MA's), (16, 7200), (27, 7290), (29, 7296), (37, 7347), (39, 7362), (46, 7395), (63, 7506), (67, 7521),

Gene: Dolores_12 Start: 7678, Stop: 8118, Start Num: 11

Candidate Starts for Dolores_12:

(Start: 11 @7678 has 54 MA's), (16, 7702), (27, 7792), (29, 7798), (39, 7864), (46, 7897), (63, 8008), (67, 8023),

Gene: Dorito_11 Start: 7181, Stop: 7621, Start Num: 11

Candidate Starts for Dorito_11:

(Start: 11 @7181 has 54 MA's), (16, 7205), (27, 7295), (29, 7301), (39, 7367), (46, 7400), (63, 7511), (67, 7526),

Gene: Easley_12 Start: 7677, Stop: 8117, Start Num: 11

Candidate Starts for Easley_12:

(Start: 11 @7677 has 54 MA's), (15, 7698), (16, 7701), (27, 7791), (29, 7797), (37, 7848), (39, 7863), (46, 7896), (63, 8007), (67, 8022),

Gene: Eastland_13 Start: 8313, Stop: 8747, Start Num: 12

Candidate Starts for Eastland_13:

(3, 7989), (Start: 12 @8313 has 12 MA's), (28, 8424), (31, 8436), (47, 8523), (49, 8529), (63, 8622), (66, 8637), (73, 8685), (75, 8691),

Gene: Ebert_11 Start: 7161, Stop: 7619, Start Num: 10

Candidate Starts for Ebert_11:

(Start: 10 @7161 has 31 MA's), (18, 7209), (23, 7254), (34, 7329), (46, 7383), (55, 7464), (61, 7491), (69, 7533), (74, 7572),

Gene: EdnaMode_11 Start: 7161, Stop: 7622, Start Num: 10

Candidate Starts for EdnaMode_11:

(Start: 10 @7161 has 31 MA's), (15, 7185), (17, 7197), (18, 7209), (23, 7254), (46, 7386), (54, 7461), (61, 7494), (69, 7536), (74, 7575),

Gene: Eklok_13 Start: 8325, Stop: 8759, Start Num: 12

Candidate Starts for Eklok_13:

(3, 8001), (Start: 12 @8325 has 12 MA's), (28, 8436), (31, 8448), (47, 8535), (49, 8541), (52, 8589), (63, 8634), (66, 8649), (73, 8697), (75, 8703),

Gene: Eudoria_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Eudoria_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Eviarto_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Eviarto_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Eyre_11 Start: 7827, Stop: 8291, Start Num: 10

Candidate Starts for Eyre_11:

(Start: 10 @7827 has 31 MA's), (18, 7875), (46, 8052), (55, 8133), (58, 8145), (69, 8205), (70, 8214), (81, 8283),

Gene: Faith5x5_11 Start: 7132, Stop: 7590, Start Num: 10

Candidate Starts for Faith5x5_11:

(Start: 10 @7132 has 31 MA's), (15, 7156), (17, 7168), (18, 7180), (23, 7225), (32, 7294), (46, 7354), (47, 7360), (54, 7429), (55, 7435), (61, 7465), (69, 7507), (74, 7546),

Gene: Finkle_12 Start: 7640, Stop: 8095, Start Num: 9

Candidate Starts for Finkle_12:

(Start: 9 @7640 has 3 MA's), (14, 7664), (16, 7667), (24, 7742), (39, 7829), (40, 7832), (44, 7853),

Gene: FroggyToad_11 Start: 7201, Stop: 7638, Start Num: 15

Candidate Starts for FroggyToad_11:

(Start: 10 @7177 has 31 MA's), (15, 7201), (17, 7213), (18, 7225), (23, 7270), (30, 7315), (46, 7402), (54, 7477), (55, 7483), (61, 7510), (69, 7552), (74, 7591),

Gene: FrumpyGal_13 Start: 8313, Stop: 8747, Start Num: 12

Candidate Starts for FrumpyGal_13:

(3, 7989), (Start: 12 @8313 has 12 MA's), (28, 8424), (31, 8436), (47, 8523), (49, 8529), (63, 8622), (66, 8637), (73, 8685), (75, 8691),

Gene: GMA1_12 Start: 7805, Stop: 8254, Start Num: 9

Candidate Starts for GMA1_12:

(Start: 9 @7805 has 3 MA's), (14, 7829), (24, 7907), (31, 7937), (44, 8021), (67, 8150), (74, 8201),

Gene: Galactica_15 Start: 13154, Stop: 13606, Start Num: 8

Candidate Starts for Galactica_15:

(Start: 8 @13154 has 2 MA's), (16, 13196), (22, 13238), (35, 13328), (38, 13340), (42, 13364), (45, 13376), (56, 13448), (63, 13481), (82, 13595),

Gene: GemG_11 Start: 7161, Stop: 7619, Start Num: 10

Candidate Starts for GemG_11:

(Start: 10 @7161 has 31 MA's), (18, 7209), (23, 7254), (34, 7329), (46, 7383), (55, 7464), (61, 7491), (69, 7533), (74, 7572),

Gene: Gizermo_11 Start: 7161, Stop: 7619, Start Num: 10

Candidate Starts for Gizermo_11:

(Start: 10 @7161 has 31 MA's), (18, 7209), (23, 7254), (34, 7329), (46, 7383), (55, 7464), (61, 7491), (69, 7533), (74, 7572),

Gene: Gudmit_12 Start: 7950, Stop: 8414, Start Num: 10

Candidate Starts for Gudmit_12:

(Start: 10 @7950 has 31 MA's), (15, 7974), (21, 8016), (23, 8043), (52, 8238), (55, 8256), (69, 8325), (70, 8334), (74, 8364), (81, 8403),

Gene: HFrancette_13 Start: 8321, Stop: 8758, Start Num: 12

Candidate Starts for HFrancette_13:

(3, 7997), (Start: 12 @8321 has 12 MA's), (22, 8384), (26, 8429), (28, 8435), (31, 8447), (47, 8534), (49, 8540), (52, 8588), (63, 8633), (66, 8648), (73, 8696), (75, 8702),

Gene: Haley23_11 Start: 7161, Stop: 7619, Start Num: 10

Candidate Starts for Haley23_11:

(Start: 10 @7161 has 31 MA's), (18, 7209), (23, 7254), (34, 7329), (46, 7383), (55, 7464), (61, 7491), (69, 7533), (74, 7572),

Gene: Herod_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Herod_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Hiyaa_17 Start: 14197, Stop: 14646, Start Num: 9

Candidate Starts for Hiyaa_17:

(7, 14155), (Start: 8 @14188 has 2 MA's), (Start: 9 @14197 has 3 MA's), (15, 14233), (27, 14320), (34, 14365), (35, 14368), (42, 14404), (45, 14416), (57, 14494), (62, 14512), (64, 14527), (71, 14560), (76, 14593), (82, 14635),

Gene: Hortense_11 Start: 7377, Stop: 7817, Start Num: 11

Candidate Starts for Hortense_11:

(Start: 11 @7377 has 54 MA's), (16, 7401), (27, 7491), (29, 7497), (46, 7596), (53, 7668), (63, 7707), (67, 7722),

Gene: Howe_11 Start: 7377, Stop: 7817, Start Num: 11

Candidate Starts for Howe_11:

(Start: 11 @7377 has 54 MA's), (16, 7401), (27, 7491), (29, 7497), (46, 7596), (53, 7668), (63, 7707), (67, 7722),

Gene: Hugley_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Hugley_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Hyzer_11 Start: 8036, Stop: 8476, Start Num: 11

Candidate Starts for Hyzer_11:

(Start: 11 @8036 has 54 MA's), (16, 8060), (27, 8150), (39, 8222), (46, 8255), (63, 8366), (67, 8381),

Gene: Ididsumtinwong_12 Start: 8212, Stop: 8625, Start Num: 13

Candidate Starts for Ididsumtinwong_12:

(Start: 13 @8212 has 13 MA's), (31, 8311), (32, 8335), (71, 8548),

Gene: Ignacio_13 Start: 8321, Stop: 8758, Start Num: 12

Candidate Starts for Ignacio_13:

(3, 7997), (Start: 12 @8321 has 12 MA's), (22, 8384), (26, 8429), (28, 8435), (31, 8447), (47, 8534), (49, 8540), (52, 8588), (63, 8633), (66, 8648), (73, 8696), (75, 8702),

Gene: Invetra_12 Start: 7677, Stop: 8117, Start Num: 11

Candidate Starts for Invetra_12:

(Start: 11 @7677 has 54 MA's), (15, 7698), (16, 7701), (27, 7791), (29, 7797), (37, 7848), (39, 7863), (46, 7896), (58, 7980), (63, 8007), (67, 8022),

Gene: JCole_11 Start: 7161, Stop: 7619, Start Num: 10

Candidate Starts for JCole_11:

(Start: 10 @7161 has 31 MA's), (18, 7209), (23, 7254), (34, 7329), (46, 7383), (55, 7464), (61, 7491), (69, 7533), (74, 7572),

Gene: Jace_10 Start: 7713, Stop: 8150, Start Num: 11

Candidate Starts for Jace_10:

(4, 7398), (Start: 11 @7713 has 54 MA's), (23, 7797), (29, 7830), (46, 7929), (60, 8025), (62, 8028), (68, 8064),

Gene: Jalleen_12 Start: 7161, Stop: 7622, Start Num: 10

Candidate Starts for Jalleen_12:

(Start: 10 @7161 has 31 MA's), (15, 7185), (17, 7197), (18, 7209), (23, 7254), (46, 7386), (54, 7461), (61, 7494), (69, 7536), (74, 7575),

Gene: Keanu_17 Start: 14234, Stop: 14686, Start Num: 8

Candidate Starts for Keanu_17:

(Start: 8 @14234 has 2 MA's), (15, 14273), (20, 14312), (27, 14360), (35, 14408), (41, 14435), (42, 14444), (52, 14516), (71, 14600), (76, 14633), (78, 14648),

Gene: Kita_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Kita_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Lamberg_11 Start: 7161, Stop: 7622, Start Num: 10

Candidate Starts for Lamberg_11:

(Start: 10 @7161 has 31 MA's), (15, 7185), (17, 7197), (18, 7209), (23, 7254), (46, 7386), (54, 7461), (61, 7494), (69, 7536), (74, 7575),

Gene: Lishka_12 Start: 8176, Stop: 8589, Start Num: 13

Candidate Starts for Lishka_12:

(Start: 13 @8176 has 13 MA's), (31, 8275), (32, 8299), (71, 8512),

Gene: LordFarquaad_11 Start: 7161, Stop: 7622, Start Num: 10

Candidate Starts for LordFarquaad_11:

(Start: 10 @7161 has 31 MA's), (15, 7185), (17, 7197), (18, 7209), (23, 7254), (46, 7386), (47, 7392), (54, 7461), (61, 7494), (69, 7536), (74, 7575),

Gene: Lton_11 Start: 7186, Stop: 7647, Start Num: 10

Candidate Starts for Lton_11:

(Start: 10 @7186 has 31 MA's), (15, 7210), (17, 7222), (18, 7234), (23, 7279), (32, 7351), (46, 7411), (55, 7492), (61, 7522), (69, 7564), (74, 7603),

Gene: Madavieve_11 Start: 8036, Stop: 8476, Start Num: 11

Candidate Starts for Madavieve_11:

(2, 7703), (5, 7760), (Start: 11 @8036 has 54 MA's), (16, 8060), (27, 8150), (39, 8222), (46, 8255), (63, 8366), (67, 8381),

Gene: Madeline_11 Start: 8036, Stop: 8476, Start Num: 11

Candidate Starts for Madeline_11:

(Start: 11 @8036 has 54 MA's), (16, 8060), (27, 8150), (39, 8222), (46, 8255), (63, 8366), (67, 8381),

Gene: Manasvini_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Manasvini_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Maridalia_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Maridalia_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Matteo_11 Start: 7161, Stop: 7622, Start Num: 10

Candidate Starts for Matteo_11:

(Start: 10 @7161 has 31 MA's), (15, 7185), (17, 7197), (18, 7209), (23, 7254), (46, 7386), (47, 7392), (54, 7461), (61, 7494), (69, 7536), (74, 7575),

Gene: Mbo4_11 Start: 7841, Stop: 8311, Start Num: 9

Candidate Starts for Mbo4_11:

(Start: 9 @7841 has 3 MA's), (31, 7985), (32, 8009), (69, 8219), (73, 8255), (74, 8258),

Gene: Mcklovin_12 Start: 8494, Stop: 8934, Start Num: 11

Candidate Starts for Mcklovin_12:

(Start: 11 @8494 has 54 MA's), (16, 8518), (27, 8608), (29, 8614), (39, 8680), (46, 8713), (63, 8824), (67, 8839),

Gene: MichaelScott_12 Start: 7677, Stop: 8117, Start Num: 11

Candidate Starts for MichaelScott_12:

(Start: 11 @7677 has 54 MA's), (15, 7698), (16, 7701), (27, 7791), (29, 7797), (39, 7863), (46, 7896), (63, 8007), (67, 8022),

Gene: Mocha12_11 Start: 7161, Stop: 7619, Start Num: 10

Candidate Starts for Mocha12_11:

(Start: 10 @7161 has 31 MA's), (18, 7209), (23, 7254), (34, 7329), (46, 7383), (55, 7464), (61, 7491), (69, 7533), (74, 7572),

Gene: Mojarita_12 Start: 8489, Stop: 8917, Start Num: 13

Candidate Starts for Mojarita_12:

(Start: 13 @8489 has 13 MA's), (31, 8594), (32, 8618), (56, 8753), (80, 8885),

Gene: Moosehead_11 Start: 7129, Stop: 7587, Start Num: 10

Candidate Starts for Moosehead_11:

(Start: 10 @7129 has 31 MA's), (15, 7153), (17, 7165), (18, 7177), (23, 7222), (32, 7291), (46, 7351), (54, 7426), (55, 7432), (61, 7462), (69, 7504), (74, 7543),

Gene: Neobush_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Neobush_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Nettuno_11 Start: 7161, Stop: 7622, Start Num: 10

Candidate Starts for Nettuno_11:

(Start: 10 @7161 has 31 MA's), (15, 7185), (17, 7197), (18, 7209), (23, 7254), (46, 7386), (54, 7461), (61, 7494), (69, 7536), (74, 7575),

Gene: Nymphadora_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Nymphadora_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Ohgeesy_11 Start: 7383, Stop: 7823, Start Num: 11

Candidate Starts for Ohgeesy_11:

(5, 7107), (Start: 11 @7383 has 54 MA's), (16, 7407), (27, 7497), (39, 7569), (46, 7602), (48, 7611), (63, 7713), (67, 7728),

Gene: OneDirection_11 Start: 7130, Stop: 7591, Start Num: 10

Candidate Starts for OneDirection_11:

(Start: 10 @7130 has 31 MA's), (15, 7154), (17, 7166), (18, 7178), (23, 7223), (32, 7295), (46, 7355), (54, 7430), (55, 7436), (61, 7466), (69, 7508), (74, 7547),

Gene: Oregano_12 Start: 7348, Stop: 7788, Start Num: 11

Candidate Starts for Oregano_12:

(Start: 11 @7348 has 54 MA's), (16, 7372), (27, 7462), (29, 7468), (39, 7534), (46, 7567), (63, 7678), (67, 7693),

Gene: PantheRoc_11 Start: 7383, Stop: 7823, Start Num: 11

Candidate Starts for PantheRoc_11:

(5, 7107), (Start: 11 @7383 has 54 MA's), (16, 7407), (27, 7497), (39, 7569), (46, 7602), (63, 7713), (67, 7728),

Gene: PapayaSalad_12 Start: 8184, Stop: 8594, Start Num: 13
Candidate Starts for PapayaSalad_12:
(Start: 13 @8184 has 13 MA's), (31, 8283), (32, 8307), (36, 8319), (71, 8520),

Gene: Pepperoni_11 Start: 7480, Stop: 7941, Start Num: 10
Candidate Starts for Pepperoni_11:
(Start: 10 @7480 has 31 MA's), (15, 7504), (17, 7516), (18, 7528), (20, 7543), (23, 7573), (32, 7645),
(46, 7705), (54, 7780), (55, 7786), (61, 7816), (69, 7858), (74, 7897),

Gene: PhriskyACE_11 Start: 7181, Stop: 7621, Start Num: 11
Candidate Starts for PhriskyACE_11:
(Start: 11 @7181 has 54 MA's), (16, 7205), (27, 7295), (29, 7301), (39, 7367), (46, 7400), (63, 7511),
(67, 7526),

Gene: Picard_12 Start: 8489, Stop: 8917, Start Num: 13
Candidate Starts for Picard_12:
(Start: 13 @8489 has 13 MA's), (31, 8594), (32, 8618), (56, 8753), (80, 8885),

Gene: Piccadilly_13 Start: 8312, Stop: 8746, Start Num: 12
Candidate Starts for Piccadilly_13:
(3, 7988), (Start: 12 @8312 has 12 MA's), (28, 8423), (31, 8435), (47, 8522), (49, 8528), (63, 8621),
(66, 8636), (73, 8684), (75, 8690),

Gene: Pickett_11 Start: 7161, Stop: 7622, Start Num: 10
Candidate Starts for Pickett_11:
(Start: 10 @7161 has 31 MA's), (15, 7185), (17, 7197), (18, 7209), (23, 7254), (46, 7386), (47, 7392),
(54, 7461), (61, 7494), (69, 7536), (74, 7575),

Gene: Polly_11 Start: 8035, Stop: 8475, Start Num: 11
Candidate Starts for Polly_11:
(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Powerball_11 Start: 7182, Stop: 7622, Start Num: 11
Candidate Starts for Powerball_11:
(Start: 11 @7182 has 54 MA's), (16, 7206), (27, 7296), (29, 7302), (39, 7368), (46, 7401), (63, 7512),
(67, 7527),

Gene: REQ3_45 Start: 24570, Stop: 25019, Start Num: 9
Candidate Starts for REQ3_45:
(Start: 9 @24570 has 3 MA's), (19, 24633), (25, 24684), (27, 24693), (31, 24708), (32, 24732), (33,
24735), (46, 24792), (47, 24798), (51, 24843), (72, 24963), (79, 25002),

Gene: Raleigh_12 Start: 8614, Stop: 9027, Start Num: 13
Candidate Starts for Raleigh_12:
(1, 8278), (6, 8386), (Start: 13 @8614 has 13 MA's), (31, 8713), (32, 8737), (47, 8806), (59, 8890), (62,
8896), (71, 8950), (80, 9004),

Gene: RavenCo17_11 Start: 8008, Stop: 8472, Start Num: 10
Candidate Starts for RavenCo17_11:
(Start: 10 @8008 has 31 MA's), (18, 8056), (46, 8233), (51, 8284), (55, 8314), (58, 8326), (69, 8386),
(81, 8464),

Gene: SV1_12 Start: 8384, Stop: 8800, Start Num: 13

Candidate Starts for SV1_12:

(Start: 13 @8384 has 13 MA's), (31, 8483), (59, 8660), (71, 8720), (78, 8768),

Gene: Sahara_11 Start: 7177, Stop: 7632, Start Num: 10

Candidate Starts for Sahara_11:

(Start: 10 @7177 has 31 MA's), (15, 7201), (17, 7213), (18, 7225), (23, 7270), (46, 7399), (55, 7480), (61, 7507), (69, 7549), (74, 7588),

Gene: Samman98_12 Start: 7678, Stop: 8118, Start Num: 11

Candidate Starts for Samman98_12:

(Start: 11 @7678 has 54 MA's), (16, 7702), (27, 7792), (29, 7798), (39, 7864), (46, 7897), (63, 8008), (67, 8023),

Gene: Savage_11 Start: 7161, Stop: 7619, Start Num: 10

Candidate Starts for Savage_11:

(Start: 10 @7161 has 31 MA's), (18, 7209), (23, 7254), (34, 7329), (46, 7383), (55, 7464), (61, 7491), (69, 7533), (74, 7572),

Gene: Schlegelian_13 Start: 8312, Stop: 8746, Start Num: 12

Candidate Starts for Schlegelian_13:

(3, 7988), (Start: 12 @8312 has 12 MA's), (28, 8423), (31, 8435), (47, 8522), (49, 8528), (63, 8621), (66, 8636), (73, 8684), (75, 8690),

Gene: Sekhmet_12 Start: 7677, Stop: 8117, Start Num: 11

Candidate Starts for Sekhmet_12:

(Start: 11 @7677 has 54 MA's), (15, 7698), (16, 7701), (27, 7791), (29, 7797), (37, 7848), (39, 7863), (46, 7896), (58, 7980), (63, 8007), (67, 8022),

Gene: Shlim410_11 Start: 7377, Stop: 7817, Start Num: 11

Candidate Starts for Shlim410_11:

(Start: 11 @7377 has 54 MA's), (16, 7401), (27, 7491), (29, 7497), (46, 7596), (53, 7668), (63, 7707), (67, 7722),

Gene: Sidious_11 Start: 7378, Stop: 7818, Start Num: 11

Candidate Starts for Sidious_11:

(Start: 11 @7378 has 54 MA's), (16, 7402), (27, 7492), (46, 7597), (63, 7708), (67, 7723),

Gene: SoJo_12 Start: 8406, Stop: 8822, Start Num: 13

Candidate Starts for SoJo_12:

(Start: 13 @8406 has 13 MA's), (31, 8505), (47, 8598), (71, 8742), (77, 8778), (80, 8796),

Gene: SoilAssassin_11 Start: 7161, Stop: 7622, Start Num: 10

Candidate Starts for SoilAssassin_11:

(Start: 10 @7161 has 31 MA's), (15, 7185), (17, 7197), (18, 7209), (23, 7254), (46, 7386), (47, 7392), (54, 7461), (61, 7494), (69, 7536), (74, 7575),

Gene: Spocter_17 Start: 14185, Stop: 14634, Start Num: 9

Candidate Starts for Spocter_17:

(7, 14143), (Start: 8 @14176 has 2 MA's), (Start: 9 @14185 has 3 MA's), (15, 14221), (16, 14224), (27, 14308), (34, 14353), (35, 14356), (42, 14392), (45, 14404), (57, 14482), (62, 14500), (64, 14515), (71, 14548), (76, 14581), (82, 14623),

Gene: Sproutie_11 Start: 7161, Stop: 7619, Start Num: 10

Candidate Starts for Sproutie_11:

(Start: 10 @7161 has 31 MA's), (18, 7209), (23, 7254), (34, 7329), (46, 7383), (55, 7464), (61, 7491), (69, 7533), (74, 7572),

Gene: Suerte_11 Start: 7176, Stop: 7616, Start Num: 11

Candidate Starts for Suerte_11:

(Start: 11 @7176 has 54 MA's), (16, 7200), (27, 7290), (29, 7296), (37, 7347), (39, 7362), (46, 7395), (63, 7506), (67, 7521),

Gene: Suscepit_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Suscepit_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Tayonia_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Tayonia_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: ThankyouJordi_11 Start: 8033, Stop: 8473, Start Num: 11

Candidate Starts for ThankyouJordi_11:

(Start: 11 @8033 has 54 MA's), (16, 8057), (27, 8147), (46, 8252), (63, 8363), (67, 8378),

Gene: Thimann_12 Start: 7678, Stop: 8118, Start Num: 11

Candidate Starts for Thimann_12:

(Start: 11 @7678 has 54 MA's), (15, 7699), (16, 7702), (27, 7792), (29, 7798), (39, 7864), (46, 7897), (63, 8008), (67, 8023),

Gene: TimTam_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for TimTam_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: TinyDot_13 Start: 8300, Stop: 8752, Start Num: 12

Candidate Starts for TinyDot_13:

(Start: 12 @8300 has 12 MA's), (43, 8513), (56, 8600), (63, 8636),

Gene: ToastyFinz_11 Start: 8267, Stop: 8689, Start Num: 13

Candidate Starts for ToastyFinz_11:

(Start: 13 @8267 has 13 MA's), (31, 8366), (32, 8390), (47, 8459), (49, 8465), (50, 8489), (56, 8525), (71, 8603), (77, 8639), (80, 8657),

Gene: Trumpet_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Trumpet_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Tubberson_12 Start: 8406, Stop: 8822, Start Num: 13

Candidate Starts for Tubberson_12:

(Start: 13 @8406 has 13 MA's), (31, 8505), (47, 8598), (71, 8742), (77, 8778), (80, 8796),

Gene: TuertoX_11 Start: 7161, Stop: 7619, Start Num: 10

Candidate Starts for TuertoX_11:

(Start: 10 @7161 has 31 MA's), (18, 7209), (23, 7254), (34, 7329), (46, 7383), (55, 7464), (61, 7491), (69, 7533), (74, 7572),

Gene: Tuti_13 Start: 7677, Stop: 8117, Start Num: 11

Candidate Starts for Tuti_13:

(Start: 11 @7677 has 54 MA's), (15, 7698), (16, 7701), (27, 7791), (29, 7797), (39, 7863), (46, 7896), (63, 8007), (67, 8022),

Gene: Twinkle_11 Start: 7377, Stop: 7817, Start Num: 11

Candidate Starts for Twinkle_11:

(Start: 11 @7377 has 54 MA's), (16, 7401), (27, 7491), (29, 7497), (46, 7596), (53, 7668), (63, 7707), (67, 7722),

Gene: Vasanti_11 Start: 7180, Stop: 7641, Start Num: 10

Candidate Starts for Vasanti_11:

(Start: 10 @7180 has 31 MA's), (15, 7204), (17, 7216), (18, 7228), (23, 7273), (46, 7405), (54, 7480), (55, 7486), (61, 7513), (69, 7555), (74, 7594),

Gene: Vondra_13 Start: 8321, Stop: 8755, Start Num: 12

Candidate Starts for Vondra_13:

(3, 7997), (Start: 12 @8321 has 12 MA's), (22, 8384), (28, 8432), (31, 8444), (47, 8531), (49, 8537), (52, 8585), (63, 8630), (66, 8645), (73, 8693), (75, 8699),

Gene: WelcomeAyanna_11 Start: 8033, Stop: 8473, Start Num: 11

Candidate Starts for WelcomeAyanna_11:

(Start: 11 @8033 has 54 MA's), (16, 8057), (27, 8147), (46, 8252), (63, 8363), (67, 8378),

Gene: Whiteclaw_11 Start: 7161, Stop: 7619, Start Num: 10

Candidate Starts for Whiteclaw_11:

(Start: 10 @7161 has 31 MA's), (18, 7209), (23, 7254), (34, 7329), (46, 7383), (55, 7464), (61, 7491), (69, 7533), (74, 7572),

Gene: WinkNick_12 Start: 7678, Stop: 8118, Start Num: 11

Candidate Starts for WinkNick_12:

(Start: 11 @7678 has 54 MA's), (16, 7702), (27, 7792), (29, 7798), (39, 7864), (46, 7897), (63, 8008), (67, 8023),

Gene: Yeet412_11 Start: 7161, Stop: 7622, Start Num: 10

Candidate Starts for Yeet412_11:

(Start: 10 @7161 has 31 MA's), (15, 7185), (17, 7197), (18, 7209), (23, 7254), (46, 7386), (47, 7392), (54, 7461), (61, 7494), (69, 7536), (74, 7575),

Gene: Yeezy_11 Start: 7380, Stop: 7820, Start Num: 11

Candidate Starts for Yeezy_11:

(5, 7104), (Start: 11 @7380 has 54 MA's), (16, 7404), (27, 7494), (39, 7566), (46, 7599), (63, 7710), (67, 7725),

Gene: Zameen_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Zameen_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (39, 8221), (46, 8254), (63, 8365), (67, 8380),

Gene: Zirinka_11 Start: 8035, Stop: 8475, Start Num: 11

Candidate Starts for Zirinka_11:

(Start: 11 @8035 has 54 MA's), (16, 8059), (27, 8149), (29, 8155), (39, 8221), (46, 8254), (63, 8365), (67, 8380),