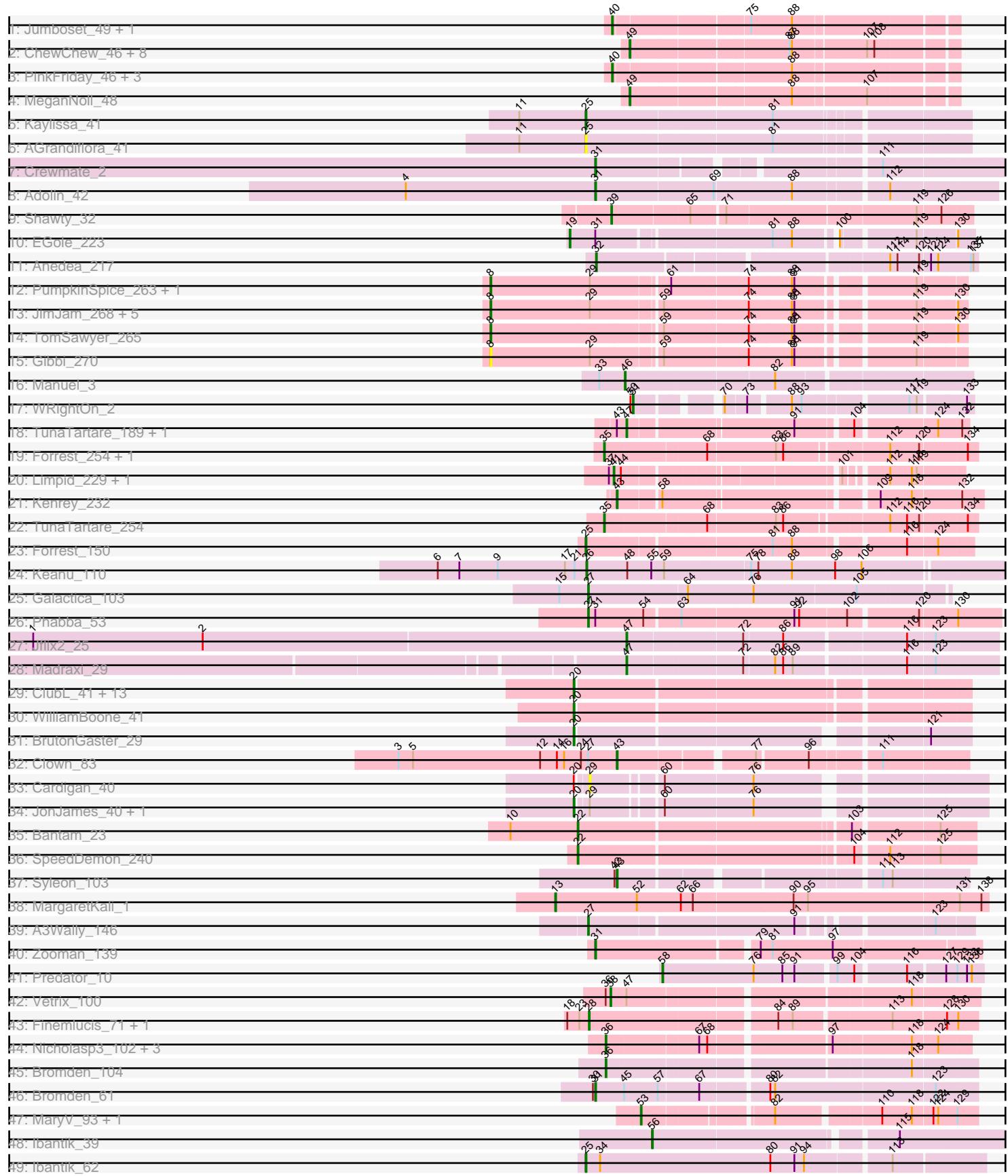


Pham 171376



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 171376 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171376 has 89 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Jumboset_49, Pterodactyl_46
- Track 2 : ChewChew_46, CristinaYang_46, Wawa_48, BigMack_46, AppleCider_48, Suppi_48, Canowicakte_48, Bodacious_46, Nancia_46
- Track 3 : PinkFriday_46, Glenn_49, Kittykat_49, Wayne_49
- Track 4 : MeganNoll_48
- Track 5 : Kaylissa_41
- Track 6 : AGrandiflora_41
- Track 7 : Crewmate_2
- Track 8 : Adolin_42
- Track 9 : Shawty_32
- Track 10 : EGole_223
- Track 11 : Anedea_217
- Track 12 : PumpkinSpice_263, Wipeout_252
- Track 13 : JimJam_268, Starbow_257, KentuckyRacer_273, CeilingFan_274, Spelly_265, Spilled_268
- Track 14 : TomSawyer_265
- Track 15 : Gibbi_270
- Track 16 : Manuel_3
- Track 17 : WRightOn_2
- Track 18 : TunaTartare_189, Sham_181
- Track 19 : Forrest_254, Jada_255
- Track 20 : Limpid_229, Annadreamy_222
- Track 21 : Kenrey_232
- Track 22 : TunaTartare_254
- Track 23 : Forrest_150
- Track 24 : Keanu_110
- Track 25 : Galactica_103
- Track 26 : Phabba_53
- Track 27 : Jflix2_25
- Track 28 : Madraxi_29
- Track 29 : ClubL_41, Dusty_39, Miskis_43, Lozinak_41, Engineer_42, Abscondus_40, Toniann_41, Norvs_42, Cucurbita_43, Smoothie_42, Aphelion_41, Culver_41, PhinkBoden_41, Bachita_43
- Track 30 : WilliamBoone_41
- Track 31 : BrutonGaster_29
- Track 32 : Clown_83
- Track 33 : Cardigan_40

- Track 34 : JonJames_40, YvonneTastic_38
- Track 35 : Bantam_23
- Track 36 : SpeedDemon_240
- Track 37 : Syleon_103
- Track 38 : MargaretKali_1
- Track 39 : A3Wally_146
- Track 40 : Zooman_139
- Track 41 : Predator_10
- Track 42 : Vetrix_100
- Track 43 : Finemlucis_71, Gabriela_68
- Track 44 : Nicholasp3_102, Gardann_101, Rumpelstiltskin_98, Kahlid_101
- Track 45 : Bromden_104
- Track 46 : Bromden_61
- Track 47 : MaryV_93, Wildcat_93
- Track 48 : Ibantik_39
- Track 49 : Ibantik_62

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

The start number called the most often in the published annotations is 20, it was called in 15 of the 81 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_40, Aphelion_41, Bachita_43, BrutonGaster_29, ClubL_41, Cucurbita_43, Culver_41, Dusty_39, Engineer_42, JonJames_40, Lozinak_41, Miskis_43, Norvs_42, PhinkBoden_41, Smoothie_42, Toniann_41, WilliamBoone_41, YvonneTastic_38,

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

- Cardigan_40,

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

- A3Wally_146, AGrandiflora_41, Adolin_42, Anedea_217, Annadreamy_222, AppleCider_48, Bantam_23, BigMack_46, Bodacious_46, Bromden_104, Bromden_61, Canowicakte_48, CeilingFan_274, ChewChew_46, Clown_83, Crewmate_2, CristinaYang_46, EGole_223, Finemlucis_71, Forrest_150, Forrest_254, Gabriela_68, Galactica_103, Gardann_101, Gibbi_270, Glenn_49, Ibantik_39, Ibantik_62, Jada_255, Jflix2_25, JimJam_268, Jumboset_49, Kahlid_101, Kaylissa_41, Keanu_110, Kenrey_232, KentuckyRacer_273, Kittykat_49, Limpid_229, Madraxi_29, Manuel_3, MargaretKali_1, MaryV_93, MeganNoll_48, Nancia_46, Nicholasp3_102, Phabba_53, PinkFriday_46, Predator_10, Pterodactyl_46, PumpkinSpice_263, Rumpelstiltskin_98, Sham_181, Shawty_32, SpeedDemon_240, Spelly_265, Spilled_268, Starbow_257, Suppi_48, Syleon_103, TomSawyer_265, TunaTartare_189, TunaTartare_254, Vetrix_100, WRightOn_2, Wawa_48, Wayne_49, Wildcat_93, Wipeout_252, Zooman_139,

Summary by start number:

Start 8:

- Found in 10 of 89 (11.2%) of genes in pham

- Manual Annotations of this start: 7 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CeilingFan_274 (BE2), Gibbi_270 (BE2), JimJam_268 (BE2), KentuckyRacer_273 (BE2), PumpkinSpice_263 (BE2), Spelly_265 (BE2), Spilled_268 (BE2), Starbow_257 (BE2), TomSawyer_265 (BE2), Wipeout_252 (BE2),

Start 13:

- Found in 1 of 89 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MargaretKali_1 (FB),

Start 19:

- Found in 1 of 89 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EGole_223 (BE1),

Start 20:

- Found in 19 of 89 (21.3%) of genes in pham
- Manual Annotations of this start: 15 of 81
- Called 94.7% of time when present
- Phage (with cluster) where this start called: Abscondus_40 (CQ), Aphelion_41 (CQ1), Bachita_43 (CQ1), BrutonGaster_29 (CQ2), ClubL_41 (CQ1), Cucurbita_43 (CQ1), Culver_41 (CQ1), Dusty_39 (CQ), Engineer_42 (CQ1), JonJames_40 (DD), Lozinak_41 (CQ1), Miskis_43 (CQ), Norvs_42 (CQ), PhinkBoden_41 (CQ1), Smoothie_42 (CQ1), Toniann_41 (CQ1), WilliamBoone_41 (CQ1), YvonneTastic_38 (DD),

Start 22:

- Found in 2 of 89 (2.2%) of genes in pham
- Manual Annotations of this start: 2 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bantam_23 (DL), SpeedDemon_240 (DL),

Start 25:

- Found in 4 of 89 (4.5%) of genes in pham
- Manual Annotations of this start: 3 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AGrandiflora_41 (AZ1), Forrest_150 (BK1), Ibantik_62 (singleton), Kaylissa_41 (AZ1),

Start 26:

- Found in 1 of 89 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Keanu_110 (BQ),

Start 27:

- Found in 4 of 89 (4.5%) of genes in pham
- Manual Annotations of this start: 3 of 81

- Called 75.0% of time when present
- Phage (with cluster) where this start called: A3Wally_146 (GD1), Galactica_103 (BQ), Phabba_53 (C2),

Start 28:

- Found in 2 of 89 (2.2%) of genes in pham
- Manual Annotations of this start: 2 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finemlucis_71 (L2), Gabriela_68 (L2),

Start 29:

- Found in 12 of 89 (13.5%) of genes in pham
- No Manual Annotations of this start.
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Cardigan_40 (DD),

Start 31:

- Found in 6 of 89 (6.7%) of genes in pham
- Manual Annotations of this start: 4 of 81
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Adolin_42 (AZ1), Bromden_61 (L4), Crewmate_2 (AZ1), Zooman_139 (GD2),

Start 32:

- Found in 1 of 89 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anedea_217 (BE1),

Start 35:

- Found in 3 of 89 (3.4%) of genes in pham
- Manual Annotations of this start: 3 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Forrest_254 (BK1), Jada_255 (BK1), TunaTartare_254 (BK1),

Start 36:

- Found in 6 of 89 (6.7%) of genes in pham
- Manual Annotations of this start: 5 of 81
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Bromden_104 (L4), Gardann_101 (L2), Kahlid_101 (L2), Nicholasp3_102 (L2), Rumpelstiltskin_98 (L2),

Start 38:

- Found in 1 of 89 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Vetrix_100 (L2),

Start 39:

- Found in 1 of 89 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 81
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Shawty_32 (BB1),

Start 40:

- Found in 6 of 89 (6.7%) of genes in pham
- Manual Annotations of this start: 6 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Glenn_49 (AK), Jumboset_49 (AK), Kittykat_49 (AK), PinkFriday_46 (AK), Pterodactyl_46 (AK), Wayne_49 (AK),

Start 41:

- Found in 2 of 89 (2.2%) of genes in pham
- Manual Annotations of this start: 2 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annadreamy_222 (BK1), Limpid_229 (BK1),

Start 43:

- Found in 5 of 89 (5.6%) of genes in pham
- Manual Annotations of this start: 3 of 81
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Clown_83 (DC2), Kenrey_232 (BK1), Syleon_103 (DU1),

Start 46:

- Found in 1 of 89 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Manuel_3 (BF),

Start 47:

- Found in 5 of 89 (5.6%) of genes in pham
- Manual Annotations of this start: 4 of 81
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Jflix2_25 (CF), Madraxi_29 (CF), Sham_181 (BK1), TunaTartare_189 (BK1),

Start 49:

- Found in 10 of 89 (11.2%) of genes in pham
- Manual Annotations of this start: 10 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AppleCider_48 (AK), BigMack_46 (AK), Bodacious_46 (AK), Canowicakte_48 (AK), ChewChew_46 (AK), CristinaYang_46 (AK), MeganNoll_48 (AK), Nancia_46 (AK), Suppi_48 (AK), Wawa_48 (AK),

Start 51:

- Found in 1 of 89 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WRightOn_2 (BF),

Start 53:

- Found in 2 of 89 (2.2%) of genes in pham
- Manual Annotations of this start: 2 of 81

- Called 100.0% of time when present
- Phage (with cluster) where this start called: MaryV_93 (V), Wildcat_93 (V),

Start 56:

- Found in 1 of 89 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 81
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ibantik_39 (singleton),

Start 58:

- Found in 2 of 89 (2.2%) of genes in pham
- Manual Annotations of this start: 1 of 81
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Predator_10 (H1),

Summary by clusters:

There are 25 clusters represented in this pham: GD1, BF, DD, GD2, FB, BQ, CQ, DL, CQ2, CQ1, BB1, AK, CF, L4, L2, BK1, V, singleton, DC2, C2, H1, DU1, BE2, AZ1, BE1,

Info for manual annotations of cluster AK:

- Start number 40 was manually annotated 6 times for cluster AK.
- Start number 49 was manually annotated 10 times for cluster AK.

Info for manual annotations of cluster AZ1:

- Start number 25 was manually annotated 1 time for cluster AZ1.
- Start number 31 was manually annotated 2 times for cluster AZ1.

Info for manual annotations of cluster BB1:

- Start number 39 was manually annotated 1 time for cluster BB1.

Info for manual annotations of cluster BE1:

- Start number 19 was manually annotated 1 time for cluster BE1.
- Start number 32 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 8 was manually annotated 7 times for cluster BE2.

Info for manual annotations of cluster BF:

- Start number 46 was manually annotated 1 time for cluster BF.
- Start number 51 was manually annotated 1 time for cluster BF.

Info for manual annotations of cluster BK1:

- Start number 25 was manually annotated 1 time for cluster BK1.
- Start number 35 was manually annotated 3 times for cluster BK1.
- Start number 41 was manually annotated 2 times for cluster BK1.
- Start number 43 was manually annotated 1 time for cluster BK1.
- Start number 47 was manually annotated 2 times for cluster BK1.

Info for manual annotations of cluster BQ:

- Start number 26 was manually annotated 1 time for cluster BQ.
- Start number 27 was manually annotated 1 time for cluster BQ.

Info for manual annotations of cluster C2:

- Start number 27 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster CF:

- Start number 47 was manually annotated 2 times for cluster CF.

Info for manual annotations of cluster CQ:

- Start number 20 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 20 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 20 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DC2:

- Start number 43 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DD:

- Start number 20 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DL:

- Start number 22 was manually annotated 2 times for cluster DL.

Info for manual annotations of cluster DU1:

- Start number 43 was manually annotated 1 time for cluster DU1.

Info for manual annotations of cluster FB:

- Start number 13 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster GD1:

- Start number 27 was manually annotated 1 time for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 31 was manually annotated 1 time for cluster GD2.

Info for manual annotations of cluster H1:

- Start number 58 was manually annotated 1 time for cluster H1.

Info for manual annotations of cluster L2:

- Start number 28 was manually annotated 2 times for cluster L2.

- Start number 36 was manually annotated 4 times for cluster L2.

- Start number 38 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L4:

- Start number 31 was manually annotated 1 time for cluster L4.

- Start number 36 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster V:

- Start number 53 was manually annotated 2 times for cluster V.

Gene Information:

Gene: A3Wally_146 Start: 90094, Stop: 90525, Start Num: 27

Candidate Starts for A3Wally_146:

(Start: 27 @90094 has 3 MA's), (91, 90337), (123, 90481),

Gene: AGrandiflora_41 Start: 29625, Stop: 30068, Start Num: 25

Candidate Starts for AGrandiflora_41:

(11, 29544), (Start: 25 @29625 has 3 MA's), (81, 29847),

Gene: Abscondus_40 Start: 17135, Stop: 17593, Start Num: 20

Candidate Starts for Abscondus_40:

(Start: 20 @17135 has 15 MA's),

Gene: Adolin_42 Start: 29874, Stop: 30347, Start Num: 31

Candidate Starts for Adolin_42:

(4, 29637), (Start: 31 @29874 has 4 MA's), (69, 30018), (88, 30111), (112, 30219),

Gene: Anedea_217 Start: 106294, Stop: 106719, Start Num: 32

Candidate Starts for Anedea_217:

(Start: 32 @106294 has 1 MA's), (112, 106618), (114, 106627), (120, 106654), (121, 106666), (124, 106675), (135, 106711), (137, 106714),

Gene: Annadreamy_222 Start: 109759, Stop: 110133, Start Num: 41

Candidate Starts for Annadreamy_222:

(37, 109753), (Start: 41 @109759 has 2 MA's), (44, 109768), (101, 110005), (112, 110047), (118, 110074), (119, 110080),

Gene: Aphelion_41 Start: 17404, Stop: 17862, Start Num: 20

Candidate Starts for Aphelion_41:

(Start: 20 @17404 has 15 MA's),

Gene: AppleCider_48 Start: 35943, Stop: 36317, Start Num: 49

Candidate Starts for AppleCider_48:

(Start: 49 @35943 has 10 MA's), (87, 36129), (88, 36132), (107, 36216), (108, 36225),

Gene: Bachita_43 Start: 17837, Stop: 18295, Start Num: 20

Candidate Starts for Bachita_43:

(Start: 20 @17837 has 15 MA's),

Gene: Bantam_23 Start: 14778, Stop: 15239, Start Num: 22

Candidate Starts for Bantam_23:

(10, 14694), (Start: 22 @14778 has 2 MA's), (103, 15099), (125, 15198),

Gene: BigMack_46 Start: 34816, Stop: 35190, Start Num: 49

Candidate Starts for BigMack_46:

(Start: 49 @34816 has 10 MA's), (87, 35002), (88, 35005), (107, 35089), (108, 35098),

Gene: Bodacious_46 Start: 34773, Stop: 35147, Start Num: 49

Candidate Starts for Bodacious_46:

(Start: 49 @34773 has 10 MA's), (87, 34959), (88, 34962), (107, 35046), (108, 35055),

Gene: Bromden_104 Start: 63270, Stop: 63686, Start Num: 36

Candidate Starts for Bromden_104:
(Start: 36 @63270 has 5 MA's), (118, 63612),

Gene: Bromden_61 Start: 43963, Stop: 44400, Start Num: 31
Candidate Starts for Bromden_61:
(30, 43960), (Start: 31 @43963 has 4 MA's), (45, 43996), (57, 44038), (67, 44083), (80, 44158), (82, 44164), (123, 44353),

Gene: BrutonGaster_29 Start: 14029, Stop: 14475, Start Num: 20
Candidate Starts for BrutonGaster_29:
(Start: 20 @14029 has 15 MA's), (121, 14428),

Gene: Canowicakte_48 Start: 35978, Stop: 36352, Start Num: 49
Candidate Starts for Canowicakte_48:
(Start: 49 @35978 has 10 MA's), (87, 36164), (88, 36167), (107, 36251), (108, 36260),

Gene: Cardigan_40 Start: 19035, Stop: 19475, Start Num: 29
Candidate Starts for Cardigan_40:
(Start: 20 @19023 has 15 MA's), (29, 19035), (60, 19110), (76, 19218),

Gene: CeilingFan_274 Start: 120156, Stop: 119614, Start Num: 8
Candidate Starts for CeilingFan_274:
(Start: 8 @120156 has 7 MA's), (29, 120033), (59, 119955), (74, 119853), (88, 119802), (91, 119799), (119, 119670), (130, 119625),

Gene: ChewChew_46 Start: 34904, Stop: 35278, Start Num: 49
Candidate Starts for ChewChew_46:
(Start: 49 @34904 has 10 MA's), (87, 35090), (88, 35093), (107, 35177), (108, 35186),

Gene: Clown_83 Start: 53992, Stop: 54378, Start Num: 43
Candidate Starts for Clown_83:
(3, 53719), (5, 53737), (12, 53896), (14, 53917), (16, 53926), (24, 53947), (Start: 27 @53956 has 3 MA's), (Start: 43 @53992 has 3 MA's), (77, 54142), (96, 54202), (111, 54277),

Gene: ClubL_41 Start: 17326, Stop: 17784, Start Num: 20
Candidate Starts for ClubL_41:
(Start: 20 @17326 has 15 MA's),

Gene: Crewmate_2 Start: 546, Stop: 995, Start Num: 31
Candidate Starts for Crewmate_2:
(Start: 31 @546 has 4 MA's), (111, 846),

Gene: CristinaYang_46 Start: 34900, Stop: 35274, Start Num: 49
Candidate Starts for CristinaYang_46:
(Start: 49 @34900 has 10 MA's), (87, 35086), (88, 35089), (107, 35173), (108, 35182),

Gene: Cucurbita_43 Start: 18696, Stop: 19154, Start Num: 20
Candidate Starts for Cucurbita_43:
(Start: 20 @18696 has 15 MA's),

Gene: Culver_41 Start: 17135, Stop: 17593, Start Num: 20
Candidate Starts for Culver_41:
(Start: 20 @17135 has 15 MA's),

Gene: Dusty_39 Start: 17135, Stop: 17593, Start Num: 20

Candidate Starts for Dusty_39:

(Start: 20 @17135 has 15 MA's),

Gene: EGole_223 Start: 113552, Stop: 114001, Start Num: 19

Candidate Starts for EGole_223:

(Start: 19 @113552 has 1 MA's), (Start: 31 @113582 has 4 MA's), (81, 113783), (88, 113807), (100, 113852), (119, 113936), (130, 113981),

Gene: Engineer_42 Start: 17352, Stop: 17810, Start Num: 20

Candidate Starts for Engineer_42:

(Start: 20 @17352 has 15 MA's),

Gene: Finemlucis_71 Start: 49120, Stop: 49566, Start Num: 28

Candidate Starts for Finemlucis_71:

(18, 49093), (23, 49108), (Start: 28 @49120 has 2 MA's), (84, 49336), (89, 49354), (113, 49468), (128, 49531), (130, 49543),

Gene: Forrest_254 Start: 120939, Stop: 121364, Start Num: 35

Candidate Starts for Forrest_254:

(Start: 35 @120939 has 3 MA's), (68, 121056), (83, 121137), (86, 121146), (112, 121263), (120, 121299), (134, 121353),

Gene: Forrest_150 Start: 82816, Stop: 83256, Start Num: 25

Candidate Starts for Forrest_150:

(Start: 25 @82816 has 3 MA's), (81, 83032), (88, 83056), (116, 83179), (124, 83215),

Gene: Gabriela_68 Start: 47246, Stop: 47692, Start Num: 28

Candidate Starts for Gabriela_68:

(18, 47219), (23, 47234), (Start: 28 @47246 has 2 MA's), (84, 47462), (89, 47480), (113, 47594), (128, 47657), (130, 47669),

Gene: Galactica_103 Start: 72510, Stop: 72941, Start Num: 27

Candidate Starts for Galactica_103:

(15, 72474), (Start: 27 @72510 has 3 MA's), (64, 72630), (76, 72711), (105, 72837),

Gene: Gardann_101 Start: 61924, Stop: 62331, Start Num: 36

Candidate Starts for Gardann_101:

(Start: 36 @61924 has 5 MA's), (67, 62029), (68, 62038), (97, 62173), (118, 62266), (124, 62296),

Gene: Gibbi_270 Start: 119649, Stop: 119107, Start Num: 8

Candidate Starts for Gibbi_270:

(Start: 8 @119649 has 7 MA's), (29, 119526), (59, 119448), (74, 119346), (88, 119295), (91, 119292), (119, 119163),

Gene: Glenn_49 Start: 36170, Stop: 36574, Start Num: 40

Candidate Starts for Glenn_49:

(Start: 40 @36170 has 6 MA's), (88, 36380),

Gene: Ibantik_39 Start: 18281, Stop: 17859, Start Num: 56

Candidate Starts for Ibantik_39:

(Start: 56 @18281 has 1 MA's), (115, 17999),

Gene: Ibantik_62 Start: 26677, Stop: 27156, Start Num: 25
Candidate Starts for Ibantik_62:
(Start: 25 @26677 has 3 MA's), (34, 26695), (80, 26908), (91, 26938), (94, 26950), (113, 27049),

Gene: Jada_255 Start: 120179, Stop: 120604, Start Num: 35
Candidate Starts for Jada_255:
(Start: 35 @120179 has 3 MA's), (68, 120296), (83, 120377), (86, 120386), (112, 120503), (120, 120539), (134, 120593),

Gene: Jflix2_25 Start: 25439, Stop: 25867, Start Num: 47
Candidate Starts for Jflix2_25:
(1, 24707), (2, 24917), (Start: 47 @25439 has 4 MA's), (72, 25574), (86, 25619), (116, 25760), (123, 25793),

Gene: JimJam_268 Start: 121085, Stop: 120543, Start Num: 8
Candidate Starts for JimJam_268:
(Start: 8 @121085 has 7 MA's), (29, 120962), (59, 120884), (74, 120782), (88, 120731), (91, 120728), (119, 120599), (130, 120554),

Gene: JonJames_40 Start: 21238, Stop: 21690, Start Num: 20
Candidate Starts for JonJames_40:
(Start: 20 @21238 has 15 MA's), (29, 21250), (60, 21325), (76, 21433),

Gene: Jumboset_49 Start: 36068, Stop: 36457, Start Num: 40
Candidate Starts for Jumboset_49:
(Start: 40 @36068 has 6 MA's), (75, 36221), (88, 36272),

Gene: Kahlid_101 Start: 61842, Stop: 62249, Start Num: 36
Candidate Starts for Kahlid_101:
(Start: 36 @61842 has 5 MA's), (67, 61947), (68, 61956), (97, 62091), (118, 62184), (124, 62214),

Gene: Kaylissa_41 Start: 29646, Stop: 30089, Start Num: 25
Candidate Starts for Kaylissa_41:
(11, 29565), (Start: 25 @29646 has 3 MA's), (81, 29868),

Gene: Keanu_110 Start: 78255, Stop: 78767, Start Num: 26
Candidate Starts for Keanu_110:
(6, 78069), (7, 78096), (9, 78144), (17, 78228), (21, 78240), (Start: 26 @78255 has 1 MA's), (48, 78306), (55, 78336), (59, 78351), (75, 78456), (78, 78465), (88, 78507), (98, 78561), (106, 78594),

Gene: Kenrey_232 Start: 111193, Stop: 111606, Start Num: 43
Candidate Starts for Kenrey_232:
(Start: 43 @111193 has 3 MA's), (Start: 58 @111241 has 1 MA's), (109, 111484), (118, 111523), (132, 111580),

Gene: KentuckyRacer_273 Start: 121000, Stop: 120458, Start Num: 8
Candidate Starts for KentuckyRacer_273:
(Start: 8 @121000 has 7 MA's), (29, 120877), (59, 120799), (74, 120697), (88, 120646), (91, 120643), (119, 120514), (130, 120469),

Gene: Kittykat_49 Start: 35170, Stop: 35559, Start Num: 40
Candidate Starts for Kittykat_49:

(Start: 40 @35170 has 6 MA's), (88, 35374),

Gene: Limpid_229 Start: 115072, Stop: 115446, Start Num: 41

Candidate Starts for Limpid_229:

(37, 115066), (Start: 41 @115072 has 2 MA's), (44, 115081), (101, 115318), (112, 115360), (118, 115387), (119, 115393),

Gene: Lozinak_41 Start: 17407, Stop: 17865, Start Num: 20

Candidate Starts for Lozinak_41:

(Start: 20 @17407 has 15 MA's),

Gene: Madraxi_29 Start: 27630, Stop: 28058, Start Num: 47

Candidate Starts for Madraxi_29:

(Start: 47 @27630 has 4 MA's), (72, 27765), (82, 27801), (86, 27810), (89, 27822), (116, 27951), (123, 27984),

Gene: Manuel_3 Start: 3413, Stop: 3811, Start Num: 46

Candidate Starts for Manuel_3:

(33, 3383), (Start: 46 @3413 has 1 MA's), (82, 3590),

Gene: MargaretKali_1 Start: 50, Stop: 577, Start Num: 13

Candidate Starts for MargaretKali_1:

(Start: 13 @50 has 1 MA's), (52, 152), (62, 206), (66, 221), (90, 341), (95, 359), (131, 542), (138, 569),

Gene: MaryV_93 Start: 56140, Stop: 56508, Start Num: 53

Candidate Starts for MaryV_93:

(Start: 53 @56140 has 2 MA's), (82, 56281), (110, 56398), (118, 56434), (122, 56458), (124, 56464), (129, 56485),

Gene: MeganNoll_48 Start: 36135, Stop: 36509, Start Num: 49

Candidate Starts for MeganNoll_48:

(Start: 49 @36135 has 10 MA's), (88, 36324), (107, 36408),

Gene: Miskis_43 Start: 17170, Stop: 17628, Start Num: 20

Candidate Starts for Miskis_43:

(Start: 20 @17170 has 15 MA's),

Gene: Nancia_46 Start: 34773, Stop: 35147, Start Num: 49

Candidate Starts for Nancia_46:

(Start: 49 @34773 has 10 MA's), (87, 34959), (88, 34962), (107, 35046), (108, 35055),

Gene: Nicholasp3_102 Start: 61924, Stop: 62331, Start Num: 36

Candidate Starts for Nicholasp3_102:

(Start: 36 @61924 has 5 MA's), (67, 62029), (68, 62038), (97, 62173), (118, 62266), (124, 62296),

Gene: Norvs_42 Start: 17409, Stop: 17867, Start Num: 20

Candidate Starts for Norvs_42:

(Start: 20 @17409 has 15 MA's),

Gene: Phabba_53 Start: 19044, Stop: 18553, Start Num: 27

Candidate Starts for Phabba_53:

(Start: 27 @19044 has 3 MA's), (Start: 31 @19035 has 4 MA's), (54, 18975), (63, 18933), (91, 18795), (92, 18789), (102, 18732), (120, 18651), (130, 18606),

Gene: PhinkBoden_41 Start: 17790, Stop: 18248, Start Num: 20

Candidate Starts for PhinkBoden_41:

(Start: 20 @17790 has 15 MA's),

Gene: PinkFriday_46 Start: 35018, Stop: 35407, Start Num: 40

Candidate Starts for PinkFriday_46:

(Start: 40 @35018 has 6 MA's), (88, 35222),

Gene: Predator_10 Start: 6815, Stop: 7189, Start Num: 58

Candidate Starts for Predator_10:

(Start: 58 @6815 has 1 MA's), (76, 6929), (85, 6965), (91, 6980), (99, 7025), (104, 7046), (116, 7103), (127, 7145), (129, 7157), (133, 7169), (136, 7175),

Gene: Pterodactyl_46 Start: 34733, Stop: 35122, Start Num: 40

Candidate Starts for Pterodactyl_46:

(Start: 40 @34733 has 6 MA's), (75, 34886), (88, 34937),

Gene: PumpkinSpice_263 Start: 119441, Stop: 118899, Start Num: 8

Candidate Starts for PumpkinSpice_263:

(Start: 8 @119441 has 7 MA's), (29, 119318), (61, 119231), (74, 119138), (88, 119087), (91, 119084), (119, 118955),

Gene: Rumpelstiltskin_98 Start: 61717, Stop: 62124, Start Num: 36

Candidate Starts for Rumpelstiltskin_98:

(Start: 36 @61717 has 5 MA's), (67, 61822), (68, 61831), (97, 61966), (118, 62059), (124, 62089),

Gene: Sham_181 Start: 98652, Stop: 99035, Start Num: 47

Candidate Starts for Sham_181:

(Start: 43 @98640 has 3 MA's), (Start: 47 @98652 has 4 MA's), (91, 98844), (104, 98907), (124, 99000), (132, 99027),

Gene: Shawty_32 Start: 26307, Stop: 26723, Start Num: 39

Candidate Starts for Shawty_32:

(Start: 39 @26307 has 1 MA's), (65, 26400), (71, 26439), (119, 26661), (126, 26688),

Gene: Smoothie_42 Start: 17407, Stop: 17865, Start Num: 20

Candidate Starts for Smoothie_42:

(Start: 20 @17407 has 15 MA's),

Gene: SpeedDemon_240 Start: 15094, Stop: 15555, Start Num: 22

Candidate Starts for SpeedDemon_240:

(Start: 22 @15094 has 2 MA's), (104, 15418), (112, 15454), (125, 15514),

Gene: Spelly_265 Start: 118353, Stop: 117811, Start Num: 8

Candidate Starts for Spelly_265:

(Start: 8 @118353 has 7 MA's), (29, 118230), (59, 118152), (74, 118050), (88, 117999), (91, 117996), (119, 117867), (130, 117822),

Gene: Spilled_268 Start: 120017, Stop: 119475, Start Num: 8

Candidate Starts for Spilled_268:

(Start: 8 @120017 has 7 MA's), (29, 119894), (59, 119816), (74, 119714), (88, 119663), (91, 119660), (119, 119531), (130, 119486),

Gene: Starbow_257 Start: 118397, Stop: 117855, Start Num: 8
Candidate Starts for Starbow_257:
(Start: 8 @118397 has 7 MA's), (29, 118274), (59, 118196), (74, 118094), (88, 118043), (91, 118040),
(119, 117911), (130, 117866),

Gene: Suppi_48 Start: 35978, Stop: 36352, Start Num: 49
Candidate Starts for Suppi_48:
(Start: 49 @35978 has 10 MA's), (87, 36164), (88, 36167), (107, 36251), (108, 36260),

Gene: Syleon_103 Start: 59026, Stop: 59409, Start Num: 43
Candidate Starts for Syleon_103:
(42, 59023), (Start: 43 @59026 has 3 MA's), (111, 59308), (113, 59320),

Gene: TomSawyer_265 Start: 121328, Stop: 120786, Start Num: 8
Candidate Starts for TomSawyer_265:
(Start: 8 @121328 has 7 MA's), (59, 121127), (74, 121025), (88, 120974), (91, 120971), (119, 120842), (130, 120797),

Gene: Toniann_41 Start: 17352, Stop: 17810, Start Num: 20
Candidate Starts for Toniann_41:
(Start: 20 @17352 has 15 MA's),

Gene: TunaTartare_189 Start: 100701, Stop: 101084, Start Num: 47
Candidate Starts for TunaTartare_189:
(Start: 43 @100689 has 3 MA's), (Start: 47 @100701 has 4 MA's), (91, 100893), (104, 100956), (124, 101049), (132, 101076),

Gene: TunaTartare_254 Start: 124119, Stop: 124544, Start Num: 35
Candidate Starts for TunaTartare_254:
(Start: 35 @124119 has 3 MA's), (68, 124236), (83, 124317), (86, 124326), (112, 124443), (116, 124464), (120, 124479), (134, 124533),

Gene: Vetrix_100 Start: 61960, Stop: 62376, Start Num: 38
Candidate Starts for Vetrix_100:
(Start: 36 @61957 has 5 MA's), (Start: 38 @61960 has 1 MA's), (Start: 47 @61978 has 4 MA's), (118, 62299),

Gene: WRightOn_2 Start: 2629, Stop: 2976, Start Num: 51
Candidate Starts for WRightOn_2:
(50, 2626), (Start: 51 @2629 has 1 MA's), (70, 2707), (73, 2731), (88, 2776), (93, 2788), (117, 2905),
(119, 2914), (133, 2968),

Gene: Wawa_48 Start: 35937, Stop: 36311, Start Num: 49
Candidate Starts for Wawa_48:
(Start: 49 @35937 has 10 MA's), (87, 36123), (88, 36126), (107, 36210), (108, 36219),

Gene: Wayne_49 Start: 36024, Stop: 36443, Start Num: 40
Candidate Starts for Wayne_49:
(Start: 40 @36024 has 6 MA's), (88, 36234),

Gene: Wildcat_93 Start: 56150, Stop: 56518, Start Num: 53
Candidate Starts for Wildcat_93:

(Start: 53 @56150 has 2 MA's), (82, 56291), (110, 56408), (118, 56444), (122, 56468), (124, 56474),
(129, 56495),

Gene: WilliamBoone_41 Start: 16716, Stop: 17174, Start Num: 20

Candidate Starts for WilliamBoone_41:

(Start: 20 @16716 has 15 MA's),

Gene: Wipeout_252 Start: 120280, Stop: 119738, Start Num: 8

Candidate Starts for Wipeout_252:

(Start: 8 @120280 has 7 MA's), (29, 120157), (61, 120070), (74, 119977), (88, 119926), (91, 119923),
(119, 119794),

Gene: Yvonnetastic_38 Start: 18787, Stop: 19239, Start Num: 20

Candidate Starts for Yvonnetastic_38:

(Start: 20 @18787 has 15 MA's), (29, 18799), (60, 18874), (76, 18982),

Gene: Zooman_139 Start: 88579, Stop: 89034, Start Num: 31

Candidate Starts for Zooman_139:

(Start: 31 @88579 has 4 MA's), (79, 88768), (81, 88783), (97, 88858),