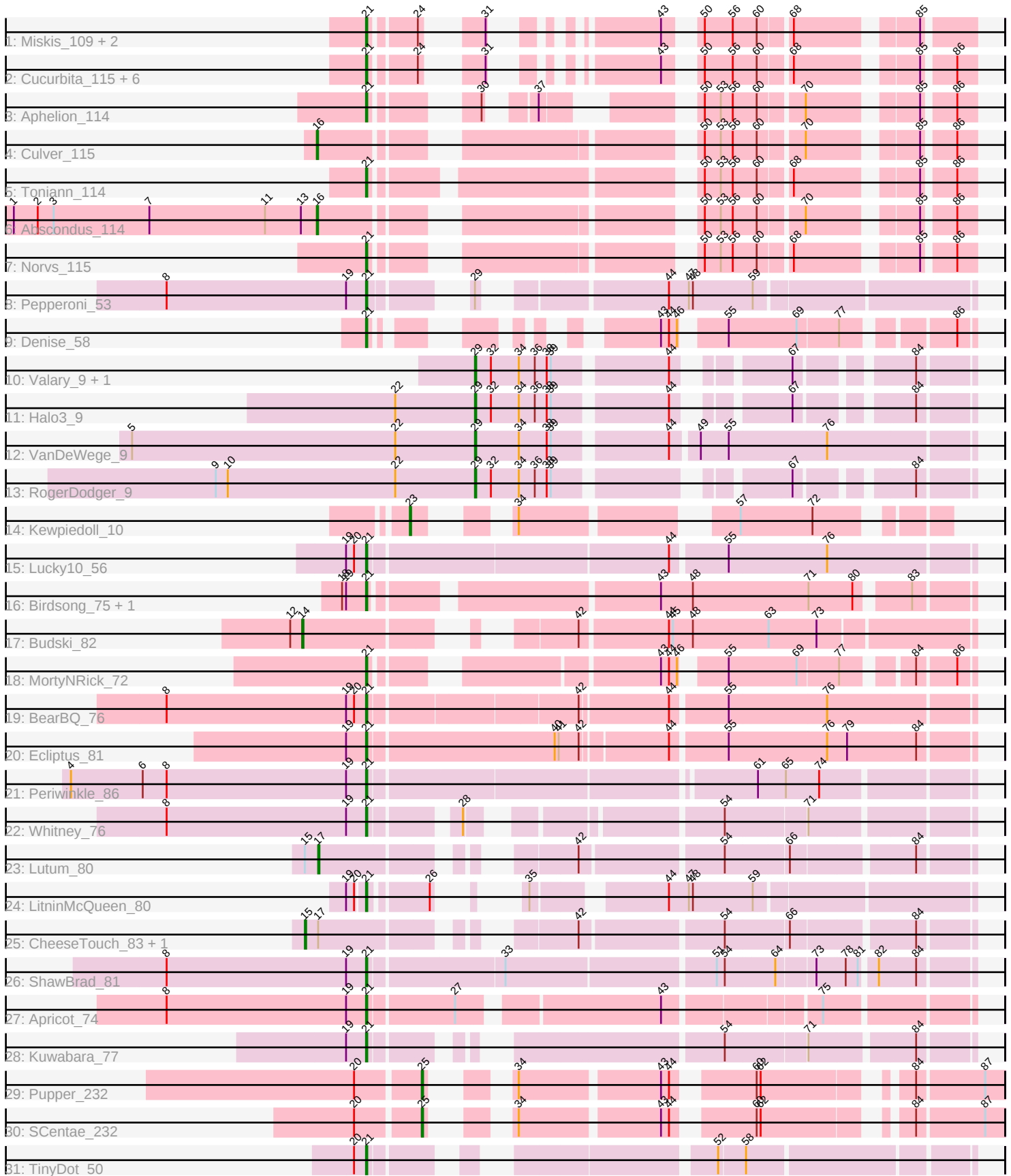


Pham 331008



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 331008 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331008 has 42 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Miskis_109, Geeche_113, Dusty_112
- Track 2 : Cucurbita_115, PhinkBoden_114, ClubL_115, Smoothie_115, Lozinak_114, Engineer_115, Bachita_116
- Track 3 : Aphelion_114
- Track 4 : Culver_115
- Track 5 : Toniann_114
- Track 6 : Abscondus_114
- Track 7 : Norvs_115
- Track 8 : Pepperoni_53
- Track 9 : Denise_58
- Track 10 : Valary_9, CherryCola_9
- Track 11 : Halo3_9
- Track 12 : VanDeWege_9
- Track 13 : RogerDodger_9
- Track 14 : Kewpiedoll_10
- Track 15 : Lucky10_56
- Track 16 : Birdsong_75, Asapag_76
- Track 17 : Budski_82
- Track 18 : MortyNRick_72
- Track 19 : BearBQ_76
- Track 20 : Ecliptus_81
- Track 21 : Periwinkle_86
- Track 22 : Whitney_76
- Track 23 : Lutum_80
- Track 24 : LitninMcQueen_80
- Track 25 : CheeseTouch_83, Phabuloso_83
- Track 26 : ShawBrad_81
- Track 27 : Apricot_74
- Track 28 : Kuwabara_77
- Track 29 : Pupper_232
- Track 30 : SCentae_232
- Track 31 : TinyDot_50

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

The start number called the most often in the published annotations is 21, it was called in 27 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aphelion_114, Apricot_74, Asapag_76, Bachita_116, BearBQ_76, Birdsong_75, ClubL_115, Cucurbita_115, Denise_58, Dusty_112, Ecliptus_81, Engineer_115, Geeche_113, Kuwabara_77, LitninMcQueen_80, Lozinak_114, Lucky10_56, Miskis_109, MortyNRick_72, Norvs_115, Pepperoni_53, Periwinkle_86, PhinkBoden_114, ShawBrad_81, Smoothie_115, TinyDot_50, Toniann_114, Whitney_76,

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

-

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

- Abscondus_114, Budski_82, CheeseTouch_83, CherryCola_9, Culver_115, Halo3_9, Kewpiedoll_10, Lutum_80, Phabuloso_83, Pupper_232, RogerDodger_9, SCentae_232, Valary_9, VanDeWege_9,

Summary by start number:

Start 14:

- Found in 1 of 42 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Budski_82 (DN),

Start 15:

- Found in 3 of 42 (7.1%) of genes in pham
- Manual Annotations of this start: 2 of 41
- Called 66.7% of time when present
- Phage (with cluster) where this start called: CheeseTouch_83 (DN1), Phabuloso_83 (DN1),

Start 16:

- Found in 2 of 42 (4.8%) of genes in pham
- Manual Annotations of this start: 2 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_114 (CQ1), Culver_115 (CQ1),

Start 17:

- Found in 3 of 42 (7.1%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Lutum_80 (DN1),

Start 21:

- Found in 28 of 42 (66.7%) of genes in pham
- Manual Annotations of this start: 27 of 41
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Aphelion_114 (CQ1), Apricot_74 (DN3), Asapag_76 (DN1), Bachita_116 (CQ1), BearBQ_76 (DN), Birdsong_75 (DN), ClubL_115 (CQ1), Cucurbita_115 (CQ1), Denise_58 (CZ5), Dusty_112 (CQ1), Ecliptus_81 (DN), Engineer_115 (CQ1), Geeche_113 (CQ1), Kuwabara_77 (DN4), LitninMcQueen_80 (DN1), Lozinak_114 (CQ1), Lucky10_56 (DH), Miskis_109 (CQ1), MortyNRick_72 (DN), Norvs_115 (CQ1), Pepperoni_53 (CZ), Periwinkle_86 (DN1), PhinkBoden_114 (CQ1), ShawBrad_81 (DN1), Smoothie_115 (CQ1), TinyDot_50 (singleton), Toniann_114 (CQ1), Whitney_76 (DN1),

Start 23:

- Found in 1 of 42 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kewpiedoll_10 (DE1),

Start 25:

- Found in 2 of 42 (4.8%) of genes in pham
- Manual Annotations of this start: 2 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pupper_232 (DO), SCentae_232 (DO),

Start 29:

- Found in 6 of 42 (14.3%) of genes in pham
- Manual Annotations of this start: 5 of 41
- Called 83.3% of time when present
- Phage (with cluster) where this start called: CherryCola_9 (DC1), Halo3_9 (DC1), RogerDodger_9 (DC1), Valary_9 (DC1), VanDeWege_9 (DC1),

Summary by clusters:

There are 12 clusters represented in this pham: DN, DO, singleton, DH, DN4, DE1, CZ5, CZ, DN1, DN3, CQ1, DC1,

Info for manual annotations of cluster CQ1:

- Start number 16 was manually annotated 2 times for cluster CQ1.
- Start number 21 was manually annotated 12 times for cluster CQ1.

Info for manual annotations of cluster CZ:

- Start number 21 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ5:

- Start number 21 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster DC1:

- Start number 29 was manually annotated 5 times for cluster DC1.

Info for manual annotations of cluster DE1:

- Start number 23 was manually annotated 1 time for cluster DE1.

Info for manual annotations of cluster DH:

- Start number 21 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:

- Start number 14 was manually annotated 1 time for cluster DN.
- Start number 21 was manually annotated 4 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 15 was manually annotated 2 times for cluster DN1.
- Start number 17 was manually annotated 1 time for cluster DN1.
- Start number 21 was manually annotated 5 times for cluster DN1.

Info for manual annotations of cluster DN3:

- Start number 21 was manually annotated 1 time for cluster DN3.

Info for manual annotations of cluster DN4:

- Start number 21 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DO:

- Start number 25 was manually annotated 2 times for cluster DO.

Gene Information:

Gene: Abscondus_114 Start: 65979, Stop: 66380, Start Num: 16

Candidate Starts for Abscondus_114:

(1, 65751), (2, 65769), (3, 65781), (7, 65853), (11, 65940), (13, 65967), (Start: 16 @65979 has 2 MA's), (50, 66207), (53, 66219), (56, 66228), (60, 66246), (70, 66276), (85, 66345), (86, 66366),

Gene: Aphelion_114 Start: 66941, Stop: 67261, Start Num: 21

Candidate Starts for Aphelion_114:

(Start: 21 @66941 has 27 MA's), (30, 66992), (37, 67013), (50, 67088), (53, 67100), (56, 67109), (60, 67127), (70, 67157), (85, 67226), (86, 67247),

Gene: Apricot_74 Start: 43240, Stop: 43638, Start Num: 21

Candidate Starts for Apricot_74:

(8, 43090), (19, 43225), (Start: 21 @43240 has 27 MA's), (27, 43300), (43, 43435), (75, 43540),

Gene: Asapag_76 Start: 44092, Stop: 44502, Start Num: 21

Candidate Starts for Asapag_76:

(18, 44074), (19, 44077), (Start: 21 @44092 has 27 MA's), (43, 44284), (48, 44308), (71, 44395), (80, 44428), (83, 44461),

Gene: Bachita_116 Start: 66804, Stop: 67118, Start Num: 21

Candidate Starts for Bachita_116:

(Start: 21 @66804 has 27 MA's), (24, 66834), (31, 66855), (43, 66930), (50, 66945), (56, 66966), (60, 66984), (68, 67005), (85, 67083), (86, 67104),

Gene: BearBQ_76 Start: 45954, Stop: 46376, Start Num: 21

Candidate Starts for BearBQ_76:

(8, 45804), (19, 45939), (20, 45945), (Start: 21 @45954 has 27 MA's), (42, 46098), (44, 46161), (55, 46200), (76, 46272),

Gene: Birdsong_75 Start: 43828, Stop: 44238, Start Num: 21

Candidate Starts for Birdsong_75:

(18, 43810), (19, 43813), (Start: 21 @43828 has 27 MA's), (43, 44020), (48, 44044), (71, 44131), (80, 44164), (83, 44197),

Gene: Budski_82 Start: 46032, Stop: 46460, Start Num: 14

Candidate Starts for Budski_82:

(12, 46023), (Start: 14 @46032 has 1 MA's), (42, 46176), (44, 46239), (45, 46242), (48, 46257), (63, 46314), (73, 46350),

Gene: CheeseTouch_83 Start: 41580, Stop: 41996, Start Num: 15

Candidate Starts for CheeseTouch_83:

(Start: 15 @41580 has 2 MA's), (Start: 17 @41589 has 1 MA's), (42, 41730), (54, 41829), (66, 41874), (84, 41958),

Gene: CherryCola_9 Start: 4423, Stop: 4731, Start Num: 29

Candidate Starts for CherryCola_9:

(Start: 29 @4423 has 5 MA's), (32, 4435), (34, 4456), (36, 4468), (38, 4477), (39, 4480), (44, 4558), (67, 4621), (84, 4693),

Gene: ClubL_115 Start: 65734, Stop: 66048, Start Num: 21

Candidate Starts for ClubL_115:

(Start: 21 @65734 has 27 MA's), (24, 65764), (31, 65785), (43, 65860), (50, 65875), (56, 65896), (60, 65914), (68, 65935), (85, 66013), (86, 66034),

Gene: Cucurbita_115 Start: 67299, Stop: 67613, Start Num: 21

Candidate Starts for Cucurbita_115:

(Start: 21 @67299 has 27 MA's), (24, 67329), (31, 67350), (43, 67425), (50, 67440), (56, 67461), (60, 67479), (68, 67500), (85, 67578), (86, 67599),

Gene: Culver_115 Start: 65329, Stop: 65730, Start Num: 16

Candidate Starts for Culver_115:

(Start: 16 @65329 has 2 MA's), (50, 65557), (53, 65569), (56, 65578), (60, 65596), (70, 65626), (85, 65695), (86, 65716),

Gene: Denise_58 Start: 36910, Stop: 37233, Start Num: 21

Candidate Starts for Denise_58:

(Start: 21 @36910 has 27 MA's), (43, 37036), (44, 37042), (46, 37048), (55, 37072), (69, 37123), (77, 37153), (86, 37222),

Gene: Dusty_112 Start: 65640, Stop: 65954, Start Num: 21

Candidate Starts for Dusty_112:

(Start: 21 @65640 has 27 MA's), (24, 65670), (31, 65691), (43, 65766), (50, 65781), (56, 65802), (60, 65820), (68, 65841), (85, 65919),

Gene: Ecliptus_81 Start: 46577, Stop: 47005, Start Num: 21

Candidate Starts for Ecliptus_81:

(19, 46562), (Start: 21 @46577 has 27 MA's), (40, 46712), (41, 46715), (42, 46730), (44, 46790), (55, 46829), (76, 46901), (79, 46916), (84, 46967),

Gene: Engineer_115 Start: 66777, Stop: 67091, Start Num: 21

Candidate Starts for Engineer_115:

(Start: 21 @66777 has 27 MA's), (24, 66807), (31, 66828), (43, 66903), (50, 66918), (56, 66939), (60, 66957), (68, 66978), (85, 67056), (86, 67077),

Gene: Geeche_113 Start: 65863, Stop: 66177, Start Num: 21

Candidate Starts for Geeche_113:

(Start: 21 @65863 has 27 MA's), (24, 65893), (31, 65914), (43, 65989), (50, 66004), (56, 66025), (60, 66043), (68, 66064), (85, 66142),

Gene: Halo3_9 Start: 4498, Stop: 4806, Start Num: 29

Candidate Starts for Halo3_9:

(22, 4438), (Start: 29 @4498 has 5 MA's), (32, 4510), (34, 4531), (36, 4543), (38, 4552), (39, 4555), (44, 4633), (67, 4696), (84, 4768),

Gene: Kewpiedoll_10 Start: 5162, Stop: 5464, Start Num: 23

Candidate Starts for Kewpiedoll_10:

(Start: 23 @5162 has 1 MA's), (34, 5198), (57, 5330), (72, 5384),

Gene: Kuwabara_77 Start: 45958, Stop: 46332, Start Num: 21

Candidate Starts for Kuwabara_77:

(19, 45943), (Start: 21 @45958 has 27 MA's), (54, 46165), (71, 46222), (84, 46294),

Gene: LitninMcQueen_80 Start: 45316, Stop: 45669, Start Num: 21

Candidate Starts for LitninMcQueen_80:

(19, 45304), (20, 45310), (Start: 21 @45316 has 27 MA's), (26, 45355), (35, 45367), (44, 45451), (47, 45466), (48, 45469), (59, 45514),

Gene: Lozinak_114 Start: 66615, Stop: 66929, Start Num: 21

Candidate Starts for Lozinak_114:

(Start: 21 @66615 has 27 MA's), (24, 66645), (31, 66666), (43, 66741), (50, 66756), (56, 66777), (60, 66795), (68, 66816), (85, 66894), (86, 66915),

Gene: Lucky10_56 Start: 36216, Stop: 36647, Start Num: 21

Candidate Starts for Lucky10_56:

(19, 36201), (20, 36207), (Start: 21 @36216 has 27 MA's), (44, 36432), (55, 36471), (76, 36543),

Gene: Lutum_80 Start: 45247, Stop: 45654, Start Num: 17

Candidate Starts for Lutum_80:

(Start: 15 @45238 has 2 MA's), (Start: 17 @45247 has 1 MA's), (42, 45388), (54, 45487), (66, 45532), (84, 45616),

Gene: Miskis_109 Start: 65566, Stop: 65880, Start Num: 21

Candidate Starts for Miskis_109:

(Start: 21 @65566 has 27 MA's), (24, 65596), (31, 65617), (43, 65692), (50, 65707), (56, 65728), (60, 65746), (68, 65767), (85, 65845),

Gene: MortyNRick_72 Start: 45215, Stop: 45589, Start Num: 21

Candidate Starts for MortyNRick_72:

(Start: 21 @45215 has 27 MA's), (43, 45392), (44, 45398), (46, 45404), (55, 45428), (69, 45479), (77, 45509), (84, 45551), (86, 45578),

Gene: Norvs_115 Start: 66437, Stop: 66802, Start Num: 21

Candidate Starts for Norvs_115:

(Start: 21 @66437 has 27 MA's), (50, 66629), (53, 66641), (56, 66650), (60, 66668), (68, 66689), (85, 66767), (86, 66788),

Gene: Pepperoni_53 Start: 34740, Stop: 35117, Start Num: 21

Candidate Starts for Pepperoni_53:

(8, 34590), (19, 34725), (Start: 21 @34740 has 27 MA's), (Start: 29 @34788 has 5 MA's), (44, 34899), (47, 34914), (48, 34917), (59, 34962),

Gene: Periwinkle_86 Start: 47025, Stop: 47444, Start Num: 21

Candidate Starts for Periwinkle_86:

(4, 46803), (6, 46857), (8, 46875), (19, 47010), (Start: 21 @47025 has 27 MA's), (61, 47295), (65, 47316), (74, 47340),

Gene: Phabuloso_83 Start: 45995, Stop: 46411, Start Num: 15

Candidate Starts for Phabuloso_83:

(Start: 15 @45995 has 2 MA's), (Start: 17 @46004 has 1 MA's), (42, 46145), (54, 46244), (66, 46289), (84, 46373),

Gene: PhinkBoden_114 Start: 66904, Stop: 67218, Start Num: 21

Candidate Starts for PhinkBoden_114:

(Start: 21 @66904 has 27 MA's), (24, 66934), (31, 66955), (43, 67030), (50, 67045), (56, 67066), (60, 67084), (68, 67105), (85, 67183), (86, 67204),

Gene: Pupper_232 Start: 149879, Stop: 150214, Start Num: 25

Candidate Starts for Pupper_232:

(20, 149834), (Start: 25 @149879 has 2 MA's), (34, 149906), (43, 150005), (44, 150011), (60, 150059), (62, 150062), (84, 150152), (87, 150200),

Gene: RogerDodger_9 Start: 4423, Stop: 4731, Start Num: 29

Candidate Starts for RogerDodger_9:

(9, 4228), (10, 4237), (22, 4363), (Start: 29 @4423 has 5 MA's), (32, 4435), (34, 4456), (36, 4468), (38, 4477), (39, 4480), (67, 4621), (84, 4693),

Gene: SCentae_232 Start: 150365, Stop: 150700, Start Num: 25

Candidate Starts for SCentae_232:

(20, 150320), (Start: 25 @150365 has 2 MA's), (34, 150392), (43, 150491), (44, 150497), (60, 150545), (62, 150548), (84, 150638), (87, 150686),

Gene: ShawBrad_81 Start: 44564, Stop: 44983, Start Num: 21

Candidate Starts for ShawBrad_81:

(8, 44414), (19, 44549), (Start: 21 @44564 has 27 MA's), (33, 44660), (51, 44810), (54, 44816), (64, 44852), (73, 44879), (78, 44900), (81, 44909), (82, 44918), (84, 44945),

Gene: Smoothie_115 Start: 66615, Stop: 66929, Start Num: 21

Candidate Starts for Smoothie_115:

(Start: 21 @66615 has 27 MA's), (24, 66645), (31, 66666), (43, 66741), (50, 66756), (56, 66777), (60, 66795), (68, 66816), (85, 66894), (86, 66915),

Gene: TinyDot_50 Start: 32374, Stop: 32745, Start Num: 21

Candidate Starts for TinyDot_50:

(20, 32365), (Start: 21 @32374 has 27 MA's), (52, 32572), (58, 32590),

Gene: Toniann_114 Start: 66005, Stop: 66385, Start Num: 21

Candidate Starts for Toniann_114:

(Start: 21 @66005 has 27 MA's), (50, 66212), (53, 66224), (56, 66233), (60, 66251), (68, 66272), (85, 66350), (86, 66371),

Gene: Valary_9 Start: 4423, Stop: 4731, Start Num: 29

Candidate Starts for Valary_9:

(Start: 29 @4423 has 5 MA's), (32, 4435), (34, 4456), (36, 4468), (38, 4477), (39, 4480), (44, 4558), (67, 4621), (84, 4693),

Gene: VanDeWege_9 Start: 4309, Stop: 4659, Start Num: 29

Candidate Starts for VanDeWege_9:

(5, 4051), (22, 4249), (Start: 29 @4309 has 5 MA's), (34, 4342), (38, 4363), (39, 4366), (44, 4444), (49, 4462), (55, 4483), (76, 4555),

Gene: Whitney_76 Start: 45790, Stop: 46164, Start Num: 21

Candidate Starts for Whitney_76:

(8, 45640), (19, 45775), (Start: 21 @45790 has 27 MA's), (28, 45844), (54, 45997), (71, 46054),