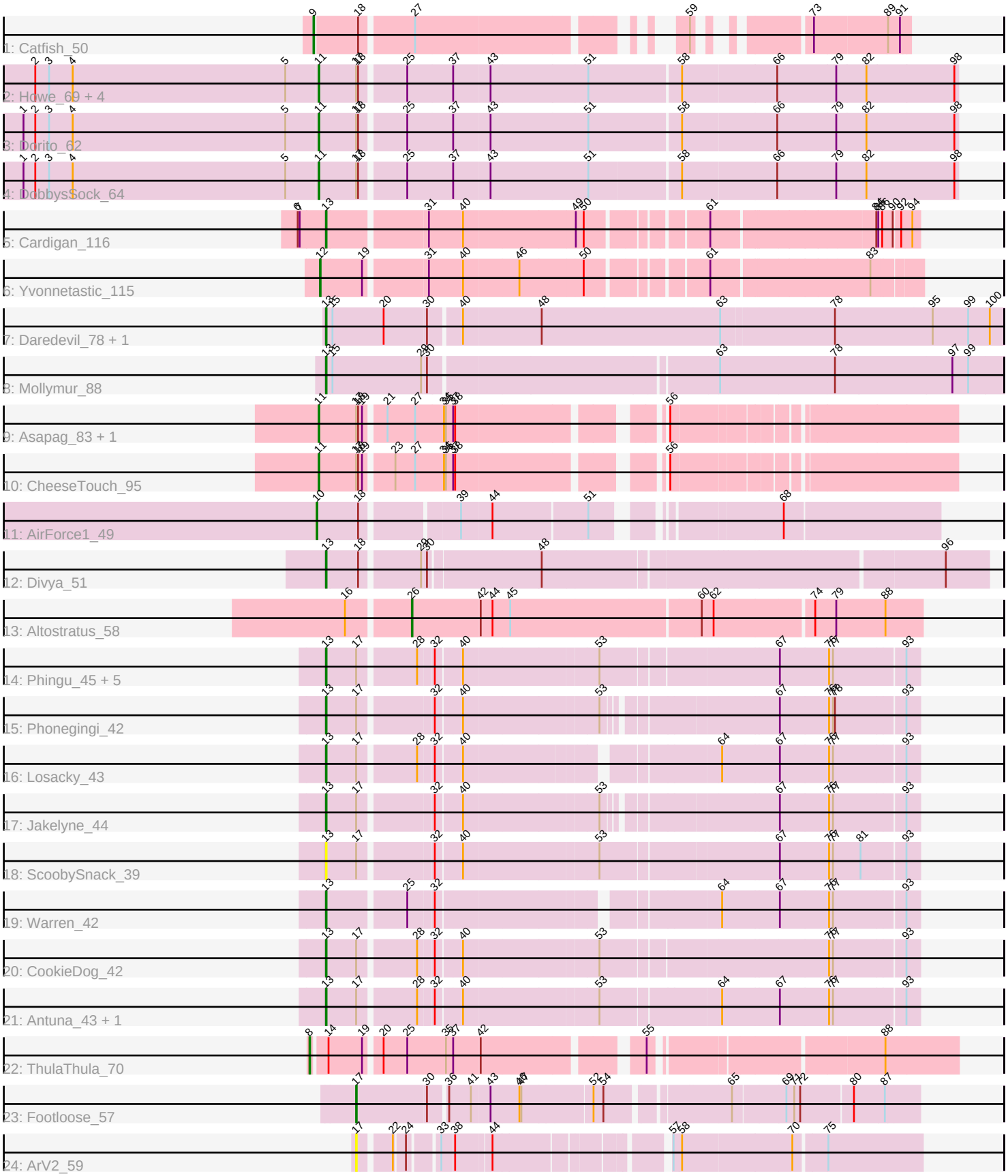
Pham 347836


1: Catfish_50
2: Howe_69 + 4
3: Dorito_62
4: DobbysSock_64
5: Cardigan_116
6: Yvonnetastic_115
7: Daredevil_78 + 1
8: Mollymur_88
9: Asapag_83 + 1
10: CheeseTouch_95
11: AirForce1_49
12: Divya_51
13: Altostratus_58
14: Phingu_45 + 5
15: Phonegingi_42
16: Losacky_43
17: Jakelyne_44
18: ScoobySnack_39
19: Warren_42
20: CookieDog_42
21: Antuna_43 + 1
22: ThulaThula_70
23: Footloose_57
24: ArV2_59

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 347836 Report

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

Pham number 347836 has 36 members, 4 are drafts.

Phages represented in each track:
- Track 1 : Catfish_50
- Track 2 : Howe_69, Twinkle_68, Hortense_69, Adora_66, Shlim410_67
- Track 3 : Dorito_62
- Track 4 : DobbysSock_64
- Track 5 : Cardigan_116
- Track 6 : Yvonnetastic_115
- Track 7 : Daredevil_78, Towmatter_78
- Track 8 : Mollymur_88
- Track 9 : Asapag_83, Birdsong_82
- Track 10 : CheeseTouch_95
- Track 11 : AirForce1_49
- Track 12 : Divya_51
- Track 13 : Altostratus_58
- Track 14 : Phingu_45, Blett_42, Violeta_44, Carrillo_44, Bush_43, NCRodriguez_44
- Track 15 : Phonegingi_42
- Track 16 : Losacky_43
- Track 17 : Jakelyne_44
- Track 18 : ScoobySnack_39
- Track 19 : Warren_42
- Track 20 : CookieDog_42
- Track 21 : Antuna_43, MenE_43
- Track 22 : ThulaThula_70
- Track 23 : Footloose_57
- Track 24 : ArV2_59

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

The start number called the most often in the published annotations is 13, it was called in 16 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Antuna_43, Blett_42, Bush_43, Cardigan_116, Carrillo_44, CookieDog_42, Daredevil_78, Divya_51, Jakelyne_44, Losacky_43, MenE_43, Mollymur_88, NCRodriguez_44, Phingu_45, Phonegingi_42, ScoobySnack_39, Towmatter_78,

Violeta_44, Warren_42,

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

Genes that do not have the "Most Annotated" start:
• Adora_66, AirForce1_49, Altostratus_58, ArV2_59, Asapag_83, Birdsong_82, Catfish_50, CheeseTouch_95, DobbysSock_64, Dorito_62, Footloose_57, Hortense_69, Howe_69, Shlim410_67, ThulaThula_70, Twinkle_68, Yvonnetastic_115,

Summary by start number:

Start 8:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ThulaThula_70 (P5),

Start 9:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Catfish_50 (CU5),

Start 10:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AirForce1_49 (FL),

Start 11:
• Found in 10 of 36 (27.8%) of genes in pham
• Manual Annotations of this start: 10 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adora_66 (CZ4), Asapag_83 (DN1), Birdsong_82 (DN), CheeseTouch_95 (DN1), DobbysSock_64 (CZ4), Dorito_62 (CZ4), Hortense_69 (CZ4), Howe_69 (CZ4), Shlim410_67 (CZ4), Twinkle_68 (CZ4),

Start 12:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Yvonnetastic_115 (DD),

Start 13:
• Found in 19 of 36 (52.8%) of genes in pham
• Manual Annotations of this start: 16 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Antuna_43 (GA), Blett_42 (GA), Bush_43 (GA), Cardigan_116 (DD), Carrillo_44 (GA), CookieDog_42 (GA), Daredevil_78 (DL), Divya_51 (FL), Jakelyne_44 (GA), Losacky_43 (GA), MenE_43 (GA), Mollymur_88 (DL), NCRodriguez_44 (GA), Phingu_45 (GA), Phonegingi_42

(GA), ScoobySnack_39 (GA), Towmatter_78 (DL), Violeta_44 (GA), Warren_42 (GA),

Start 17:
• Found in 25 of 36 (69.4%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 8.0% of time when present
• Phage (with cluster) where this start called: ArV2_59 (singleton), Footloose_57 (singleton),

Start 26:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altostratus_58 (FS),

Summary by clusters:

There are 11 clusters represented in this pham: DN, DL, FS, P5, DD, CU5, CZ4, DN1, GA, singleton, FL,

Info for manual annotations of cluster CU5:
•Start number 9 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster CZ4:
•Start number 11 was manually annotated 7 times for cluster CZ4.

Info for manual annotations of cluster DD:
•Start number 12 was manually annotated 1 time for cluster DD.
•Start number 13 was manually annotated 1 time for cluster DD.

Info for manual annotations of cluster DL:
•Start number 13 was manually annotated 3 times for cluster DL.

Info for manual annotations of cluster DN:
•Start number 11 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 11 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster FL:
•Start number 10 was manually annotated 1 time for cluster FL.
•Start number 13 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster FS:
•Start number 26 was manually annotated 1 time for cluster FS.

Info for manual annotations of cluster GA:
•Start number 13 was manually annotated 11 times for cluster GA.

Info for manual annotations of cluster P5:
•Start number 8 was manually annotated 1 time for cluster P5.

Gene Information:

Gene: Adora_66 Start: 45210, Stop: 46142, Start Num: 11
Candidate Starts for Adora_66:
(2, 44781), (3, 44802), (4, 44838), (5, 45162), (Start: 11 @45210 has 10 MA's), (Start: 17 @45267 has 1 MA's), (18, 45270), (25, 45333), (37, 45399), (43, 45453), (51, 45597), (58, 45732), (66, 45873), (79, 45960), (82, 46005), (98, 46137),

Gene: AirForce1_49 Start: 34022, Stop: 34846, Start Num: 10
Candidate Starts for AirForce1_49:
(Start: 10 @34022 has 1 MA's), (18, 34085), (39, 34214), (44, 34259), (51, 34394), (68, 34622),

Gene: Altostratus_58 Start: 33551, Stop: 34300, Start Num: 26
Candidate Starts for Altostratus_58:
(16, 33461), (Start: 26 @33551 has 1 MA's), (42, 33653), (44, 33671), (45, 33698), (60, 33977), (62, 33995), (74, 34139), (79, 34169), (88, 34244),

Gene: Antuna_43 Start: 26101, Stop: 26937, Start Num: 13
Candidate Starts for Antuna_43:
(Start: 13 @26101 has 16 MA's), (Start: 17 @26146 has 1 MA's), (28, 26227), (32, 26248), (40, 26284), (53, 26479), (64, 26650), (67, 26734), (76, 26806), (77, 26812), (93, 26917),

Gene: ArV2_59 Start: 32108, Stop: 32857, Start Num: 17
Candidate Starts for ArV2_59:
(Start: 17 @32108 has 1 MA's), (22, 32150), (24, 32165), (33, 32204), (38, 32222), (44, 32270), (57, 32495), (58, 32507), (70, 32669), (75, 32714),

Gene: Asapag_83 Start: 47246, Stop: 48094, Start Num: 11
Candidate Starts for Asapag_83:
(Start: 11 @47246 has 10 MA's), (Start: 17 @47303 has 1 MA's), (18, 47306), (19, 47312), (21, 47339), (27, 47381), (34, 47423), (35, 47426), (37, 47435), (38, 47438), (56, 47702),

Gene: Birdsong_82 Start: 46982, Stop: 47830, Start Num: 11
Candidate Starts for Birdsong_82:
(Start: 11 @46982 has 10 MA's), (Start: 17 @47039 has 1 MA's), (18, 47042), (19, 47048), (21, 47075), (27, 47117), (34, 47159), (35, 47162), (37, 47171), (38, 47174), (56, 47438),

Gene: Blett_42 Start: 26203, Stop: 27036, Start Num: 13
Candidate Starts for Blett_42:
(Start: 13 @26203 has 16 MA's), (Start: 17 @26248 has 1 MA's), (28, 26329), (32, 26350), (40, 26386), (53, 26581), (67, 26833), (76, 26905), (77, 26911), (93, 27016),

Gene: Bush_43 Start: 26151, Stop: 26984, Start Num: 13
Candidate Starts for Bush_43:
(Start: 13 @26151 has 16 MA's), (Start: 17 @26196 has 1 MA's), (28, 26277), (32, 26298), (40, 26334), (53, 26529), (67, 26781), (76, 26853), (77, 26859), (93, 26964),

Gene: Cardigan_116 Start: 67606, Stop: 68412, Start Num: 13
Candidate Starts for Cardigan_116:
(6, 67564), (7, 67567), (Start: 13 @67606 has 16 MA's), (31, 67747), (40, 67798), (49, 67960), (50, 67972), (61, 68125), (84, 68353), (85, 68356), (86, 68362), (90, 68377), (92, 68386), (94, 68401),

Gene: Carrillo_44 Start: 26124, Stop: 26957, Start Num: 13

Candidate Starts for Carrillo_44:
(Start: 13 @26124 has 16 MA's), (Start: 17 @26169 has 1 MA's), (28, 26250), (32, 26271), (40, 26307), (53, 26502), (67, 26754), (76, 26826), (77, 26832), (93, 26937),

Gene: Catfish_50 Start: 34417, Stop: 35127, Start Num: 9
Candidate Starts for Catfish_50:
(Start: 9 @34417 has 1 MA's), (18, 34480), (27, 34555), (59, 34873), (73, 34987), (89, 35095), (91, 35113),

Gene: CheeseTouch_95 Start: 46569, Stop: 47417, Start Num: 11
Candidate Starts for CheeseTouch_95:
(Start: 11 @46569 has 10 MA's), (Start: 17 @46626 has 1 MA's), (18, 46629), (19, 46635), (23, 46674), (27, 46704), (34, 46746), (35, 46749), (37, 46758), (38, 46761), (56, 47025),

Gene: CookieDog_42 Start: 26124, Stop: 26957, Start Num: 13
Candidate Starts for CookieDog_42:
(Start: 13 @26124 has 16 MA's), (Start: 17 @26169 has 1 MA's), (28, 26250), (32, 26271), (40, 26307), (53, 26502), (76, 26826), (77, 26832), (93, 26937),

Gene: Daredevil_78 Start: 56200, Stop: 55208, Start Num: 13
Candidate Starts for Daredevil_78:
(Start: 13 @56200 has 16 MA's), (15, 56191), (20, 56113), (30, 56050), (40, 56005), (48, 55891), (63, 55624), (78, 55462), (95, 55315), (99, 55261), (100, 55228),

Gene: Divya_51 Start: 34928, Stop: 35869, Start Num: 13
Candidate Starts for Divya_51:
(Start: 13 @34928 has 16 MA's), (18, 34976), (29, 35060), (30, 35066), (48, 35228), (96, 35804),

Gene: DobbysSock_64 Start: 42660, Stop: 43589, Start Num: 11
Candidate Starts for DobbysSock_64:
(1, 42213), (2, 42231), (3, 42252), (4, 42288), (5, 42612), (Start: 11 @42660 has 10 MA's), (Start: 17 @42717 has 1 MA's), (18, 42720), (25, 42783), (37, 42849), (43, 42903), (51, 43047), (58, 43179), (66, 43320), (79, 43407), (82, 43452), (98, 43584),

Gene: Dorito_62 Start: 40527, Stop: 41459, Start Num: 11
Candidate Starts for Dorito_62:
(1, 40080), (2, 40098), (3, 40119), (4, 40155), (5, 40479), (Start: 11 @40527 has 10 MA's), (Start: 17 @40584 has 1 MA's), (18, 40587), (25, 40650), (37, 40716), (43, 40770), (51, 40914), (58, 41049), (66, 41190), (79, 41277), (82, 41322), (98, 41454),

Gene: Footloose_57 Start: 32676, Stop: 33455, Start Num: 17
Candidate Starts for Footloose_57:
(Start: 17 @32676 has 1 MA's), (30, 32781), (36, 32805), (41, 32838), (43, 32865), (46, 32907), (47, 32910), (52, 33012), (54, 33027), (65, 33189), (69, 33264), (71, 33276), (72, 33285), (80, 33360), (87, 33405),

Gene: Hortense_69 Start: 46565, Stop: 47497, Start Num: 11
Candidate Starts for Hortense_69:
(2, 46136), (3, 46157), (4, 46193), (5, 46517), (Start: 11 @46565 has 10 MA's), (Start: 17 @46622 has 1 MA's), (18, 46625), (25, 46688), (37, 46754), (43, 46808), (51, 46952), (58, 47087), (66, 47228), (79, 47315), (82, 47360), (98, 47492),

Gene: Howe_69 Start: 46565, Stop: 47497, Start Num: 11

Candidate Starts for Howe_69:
(2, 46136), (3, 46157), (4, 46193), (5, 46517), (Start: 11 @46565 has 10 MA's), (Start: 17 @46622 has 1 MA's), (18, 46625), (25, 46688), (37, 46754), (43, 46808), (51, 46952), (58, 47087), (66, 47228), (79, 47315), (82, 47360), (98, 47492),

Gene: Jakelyne_44 Start: 26233, Stop: 27045, Start Num: 13
Candidate Starts for Jakelyne_44:
(Start: 13 @26233 has 16 MA's), (Start: 17 @26278 has 1 MA's), (32, 26380), (40, 26416), (53, 26611), (67, 26842), (76, 26914), (77, 26920), (93, 27025),

Gene: Losacky_43 Start: 26243, Stop: 27055, Start Num: 13
Candidate Starts for Losacky_43:
(Start: 13 @26243 has 16 MA's), (Start: 17 @26288 has 1 MA's), (28, 26369), (32, 26390), (40, 26426), (64, 26768), (67, 26852), (76, 26924), (77, 26930), (93, 27035),

Gene: MenE_43 Start: 26123, Stop: 26959, Start Num: 13
Candidate Starts for MenE_43:
(Start: 13 @26123 has 16 MA's), (Start: 17 @26168 has 1 MA's), (28, 26249), (32, 26270), (40, 26306), (53, 26501), (64, 26672), (67, 26756), (76, 26828), (77, 26834), (93, 26939),

Gene: Mollymur_88 Start: 61334, Stop: 60348, Start Num: 13
Candidate Starts for Mollymur_88:
(Start: 13 @61334 has 16 MA's), (15, 61325), (29, 61190), (30, 61184), (63, 60773), (78, 60602), (97, 60425), (99, 60401),

Gene: NCRodriguez_44 Start: 26345, Stop: 27178, Start Num: 13
Candidate Starts for NCRodriguez_44:
(Start: 13 @26345 has 16 MA's), (Start: 17 @26390 has 1 MA's), (28, 26471), (32, 26492), (40, 26528), (53, 26723), (67, 26975), (76, 27047), (77, 27053), (93, 27158),

Gene: Phingu_45 Start: 26236, Stop: 27069, Start Num: 13
Candidate Starts for Phingu_45:
(Start: 13 @26236 has 16 MA's), (Start: 17 @26281 has 1 MA's), (28, 26362), (32, 26383), (40, 26419), (53, 26614), (67, 26866), (76, 26938), (77, 26944), (93, 27049),

Gene: Phonegingi_42 Start: 26069, Stop: 26881, Start Num: 13
Candidate Starts for Phonegingi_42:
(Start: 13 @26069 has 16 MA's), (Start: 17 @26114 has 1 MA's), (32, 26216), (40, 26252), (53, 26447), (67, 26678), (76, 26750), (77, 26756), (78, 26759), (93, 26861),

Gene: ScoobySnack_39 Start: 25838, Stop: 26671, Start Num: 13
Candidate Starts for ScoobySnack_39:
(Start: 13 @25838 has 16 MA's), (Start: 17 @25883 has 1 MA's), (32, 25985), (40, 26021), (53, 26216), (67, 26468), (76, 26540), (77, 26546), (81, 26588), (93, 26651),

Gene: Shlim410_67 Start: 46565, Stop: 47497, Start Num: 11
Candidate Starts for Shlim410_67:
(2, 46136), (3, 46157), (4, 46193), (5, 46517), (Start: 11 @46565 has 10 MA's), (Start: 17 @46622 has 1 MA's), (18, 46625), (25, 46688), (37, 46754), (43, 46808), (51, 46952), (58, 47087), (66, 47228), (79, 47315), (82, 47360), (98, 47492),

Gene: ThulaThula_70 Start: 45355, Stop: 46230, Start Num: 8
Candidate Starts for ThulaThula_70:

(Start: 8 @45355 has 1 MA's), (14, 45376), (19, 45427), (20, 45448), (25, 45484), (35, 45541), (37, 45550), (42, 45589), (55, 45802), (88, 46120),

Gene: Towmatter_78 Start: 56279, Stop: 55287, Start Num: 13
Candidate Starts for Towmatter_78:
(Start: 13 @56279 has 16 MA's), (15, 56270), (20, 56192), (30, 56129), (40, 56084), (48, 55970), (63, 55703), (78, 55541), (95, 55394), (99, 55340), (100, 55307),

Gene: Twinkle_68 Start: 47624, Stop: 48556, Start Num: 11
Candidate Starts for Twinkle_68:
(2, 47195), (3, 47216), (4, 47252), (5, 47576), (Start: 11 @47624 has 10 MA's), (Start: 17 @47681 has 1 MA's), (18, 47684), (25, 47747), (37, 47813), (43, 47867), (51, 48011), (58, 48146), (66, 48287), (79, 48374), (82, 48419), (98, 48551),

Gene: Violeta_44 Start: 26115, Stop: 26948, Start Num: 13
Candidate Starts for Violeta_44:
(Start: 13 @26115 has 16 MA's), (Start: 17 @26160 has 1 MA's), (28, 26241), (32, 26262), (40, 26298), (53, 26493), (67, 26745), (76, 26817), (77, 26823), (93, 26928),

Gene: Warren_42 Start: 26076, Stop: 26891, Start Num: 13
Candidate Starts for Warren_42:
(Start: 13 @26076 has 16 MA's), (25, 26187), (32, 26223), (64, 26604), (67, 26688), (76, 26760), (77, 26766), (93, 26871),

Gene: Yvonnetastic_115 Start: 65057, Stop: 65878, Start Num: 12
Candidate Starts for Yvonnetastic_115:
(Start: 12 @65057 has 1 MA's), (19, 65120), (31, 65207), (40, 65258), (46, 65339), (50, 65432), (61, 65585), (83, 65807),