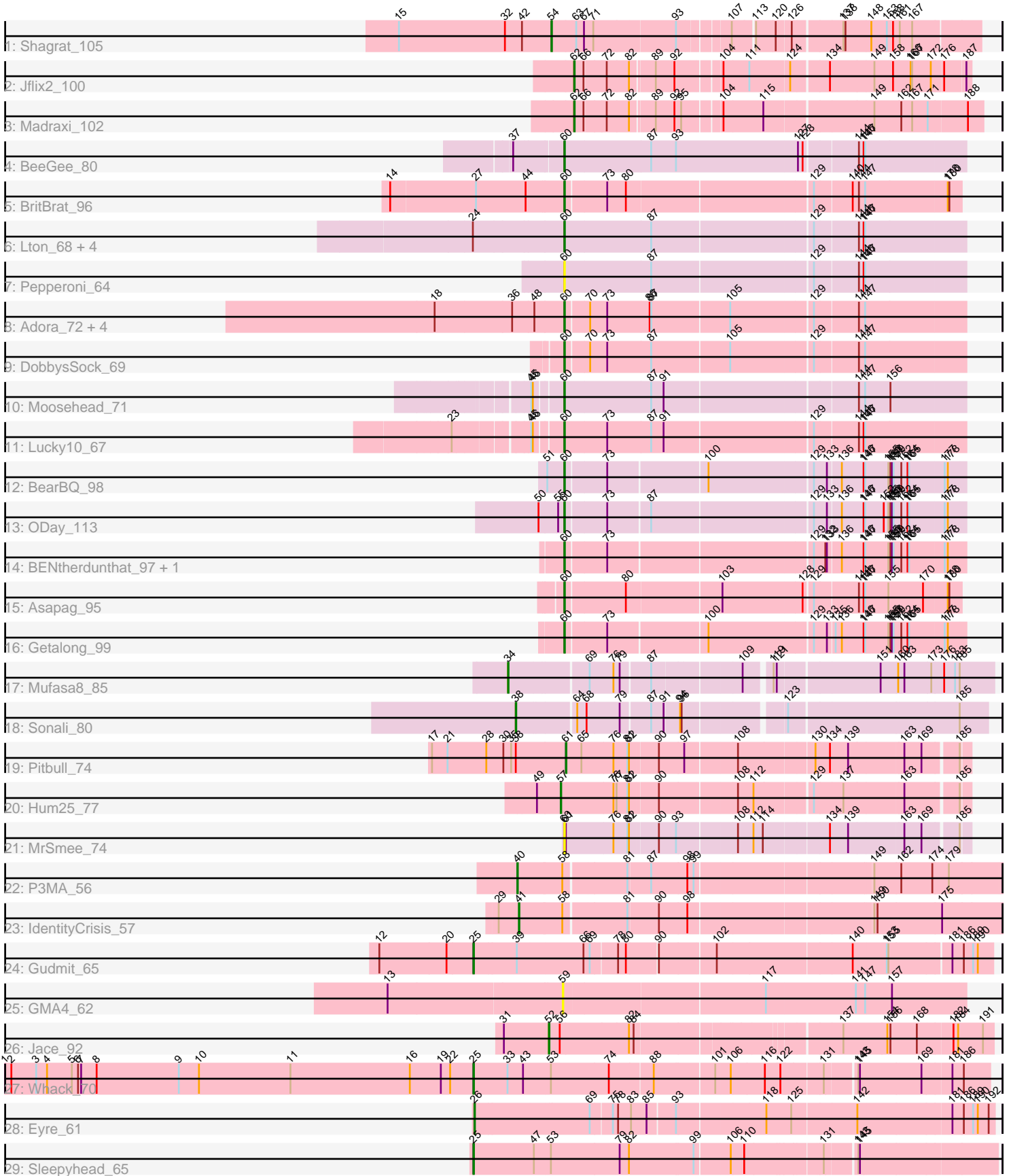


Pham 196674



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 196674 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196674 has 38 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Shagrat_105
- Track 2 : JfliX2_100
- Track 3 : Madraxi_102
- Track 4 : BeeGee_80
- Track 5 : BritBrat_96
- Track 6 : Lton_68, Kuwabara_89, OneDirection_65, PhorbesPhlower_69, Morkie_71
- Track 7 : Pepperoni_64
- Track 8 : Adora_72, Hortense_75, Shlim410_73, Twinkle_74, Howe_75
- Track 9 : DobbysSock_69
- Track 10 : Moosehead_71
- Track 11 : Lucky10_67
- Track 12 : BearBQ_98
- Track 13 : ODay_113
- Track 14 : BENtherdunthat_97, CheeseTouch_105
- Track 15 : Asapag_95
- Track 16 : Getalong_99
- Track 17 : Mufasa8_85
- Track 18 : Sonali_80
- Track 19 : Pitbull_74
- Track 20 : Hum25_77
- Track 21 : MrSmee_74
- Track 22 : P3MA_56
- Track 23 : IdentityCrisis_57
- Track 24 : Gudmit_65
- Track 25 : GMA4_62
- Track 26 : Jace_92
- Track 27 : Whack_70
- Track 28 : Eyre_61
- Track 29 : Sleepyhead_65

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

The start number called the most often in the published annotations is 60, it was called in 21 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora_72, Asapag_95, BENtherdunthat_97, BearBQ_98, BeeGee_80, BritBrat_96, CheeseTouch_105, DobbysSock_69, Getalong_99, Hortense_75, Howe_75, Kuwabara_89, Lton_68, Lucky10_67, Moosehead_71, Morkie_71, MrSmee_74, ODay_113, OneDirection_65, Pepperoni_64, PhorbesPhlower_69, Shlim410_73, Twinkle_74,

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

-

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

- Eyre_61, GMA4_62, Gudmit_65, Hum25_77, IdentityCrisis_57, Jace_92, Jflix2_100, Madraxi_102, Mufasa8_85, P3MA_56, Pitbull_74, Shagrath_105, Sleepyhead_65, Sonali_80, Whack_70,

Summary by start number:

Start 25:

- Found in 3 of 38 (7.9%) of genes in pham
- Manual Annotations of this start: 3 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gudmit_65 (singleton), Sleepyhead_65 (singleton), Whack_70 (singleton),

Start 26:

- Found in 1 of 38 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Eyre_61 (singleton),

Start 34:

- Found in 1 of 38 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mufasa8_85 (FG),

Start 38:

- Found in 2 of 38 (5.3%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Sonali_80 (FG),

Start 40:

- Found in 1 of 38 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: P3MA_56 (singleton),

Start 41:

- Found in 1 of 38 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 100.0% of time when present

- Phage (with cluster) where this start called: IdentityCrisis_57 (singleton),

Start 52:

- Found in 1 of 38 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jace_92 (singleton),

Start 54:

- Found in 1 of 38 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shagrat_105 (CF),

Start 57:

- Found in 1 of 38 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hum25_77 (FQ),

Start 59:

- Found in 1 of 38 (2.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA4_62 (singleton),

Start 60:

- Found in 23 of 38 (60.5%) of genes in pham
- Manual Annotations of this start: 21 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adora_72 (CZ4), Asapag_95 (DN1), BENTherdunthat_97 (DN1), BearBQ_98 (DN), BeeGee_80 (CY), BritBrat_96 (CY2), CheeseTouch_105 (DN1), DobbysSock_69 (CZ4), Getalong_99 (DN1), Hortense_75 (CZ4), Howe_75 (CZ4), Kuwabara_89 (DN4), Lton_68 (CZ), Lucky10_67 (DH), Moosehead_71 (CZ6), Morkie_71 (DH), MrSmee_74 (UNK), ODay_113 (DN), OneDirection_65 (CZ6), Pepperoni_64 (CZ), PhorbesPhlower_69 (DH), Shlim410_73 (CZ4), Twinkle_74 (CZ4),

Start 61:

- Found in 2 of 38 (5.3%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Pitbull_74 (FQ),

Start 62:

- Found in 2 of 38 (5.3%) of genes in pham
- Manual Annotations of this start: 2 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jflix2_100 (CF), Madraxi_102 (CF),

Summary by clusters:

There are 14 clusters represented in this pham: DN, FQ, singleton, DH, CY2, CZ6, CF, CZ4, CZ, CY, DN1, FG, UNK, DN4,

Info for manual annotations of cluster CF:

- Start number 54 was manually annotated 1 time for cluster CF.
- Start number 62 was manually annotated 2 times for cluster CF.

Info for manual annotations of cluster CY:

- Start number 60 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster CY2:

- Start number 60 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CZ:

- Start number 60 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ4:

- Start number 60 was manually annotated 6 times for cluster CZ4.

Info for manual annotations of cluster CZ6:

- Start number 60 was manually annotated 2 times for cluster CZ6.

Info for manual annotations of cluster DH:

- Start number 60 was manually annotated 3 times for cluster DH.

Info for manual annotations of cluster DN:

- Start number 60 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 60 was manually annotated 4 times for cluster DN1.

Info for manual annotations of cluster DN4:

- Start number 60 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster FG:

- Start number 34 was manually annotated 1 time for cluster FG.
- Start number 38 was manually annotated 1 time for cluster FG.

Info for manual annotations of cluster FQ:

- Start number 57 was manually annotated 1 time for cluster FQ.
- Start number 61 was manually annotated 1 time for cluster FQ.

Gene Information:

Gene: Adora_72 Start: 48969, Stop: 49706, Start Num: 60

Candidate Starts for Adora_72:

(18, 48723), (36, 48870), (48, 48912), (Start: 60 @48969 has 21 MA's), (70, 49011), (73, 49044), (86, 49125), (87, 49128), (105, 49275), (129, 49425), (144, 49506), (147, 49518),

Gene: Asapag_95 Start: 52545, Stop: 53270, Start Num: 60

Candidate Starts for Asapag_95:

(Start: 60 @52545 has 21 MA's), (80, 52656), (103, 52833), (128, 52983), (129, 52998), (144, 53079), (146, 53088), (147, 53091), (155, 53133), (170, 53199), (178, 53244), (180, 53247),

Gene: BENtherdunthat_97 Start: 52077, Stop: 52805, Start Num: 60

Candidate Starts for BENtherdunthat_97:

(Start: 60 @52077 has 21 MA's), (73, 52152), (129, 52527), (132, 52548), (133, 52551), (136, 52575), (146, 52617), (147, 52620), (155, 52662), (156, 52665), (157, 52668), (159, 52671), (162, 52686), (164, 52698), (165, 52701), (177, 52767), (178, 52773),

Gene: BearBQ_98 Start: 53192, Stop: 53920, Start Num: 60

Candidate Starts for BearBQ_98:

(51, 53159), (Start: 60 @53192 has 21 MA's), (73, 53267), (100, 53450), (129, 53642), (133, 53666), (136, 53690), (146, 53732), (147, 53735), (155, 53777), (156, 53780), (157, 53783), (159, 53786), (162, 53801), (164, 53813), (165, 53816), (177, 53882), (178, 53888),

Gene: BeeGee_80 Start: 50088, Stop: 50837, Start Num: 60

Candidate Starts for BeeGee_80:

(37, 49998), (Start: 60 @50088 has 21 MA's), (87, 50253), (93, 50301), (127, 50532), (128, 50541), (144, 50637), (146, 50646), (147, 50649),

Gene: BritBrat_96 Start: 54041, Stop: 54766, Start Num: 60

Candidate Starts for BritBrat_96:

(14, 53711), (27, 53873), (44, 53969), (Start: 60 @54041 has 21 MA's), (73, 54116), (80, 54152), (129, 54494), (140, 54563), (144, 54575), (147, 54587), (178, 54740), (180, 54743),

Gene: CheeseTouch_105 Start: 51190, Stop: 51918, Start Num: 60

Candidate Starts for CheeseTouch_105:

(Start: 60 @51190 has 21 MA's), (73, 51265), (129, 51640), (132, 51661), (133, 51664), (136, 51688), (146, 51730), (147, 51733), (155, 51775), (156, 51778), (157, 51781), (159, 51784), (162, 51799), (164, 51811), (165, 51814), (177, 51880), (178, 51886),

Gene: DobbysSock_69 Start: 45937, Stop: 46674, Start Num: 60

Candidate Starts for DobbysSock_69:

(Start: 60 @45937 has 21 MA's), (70, 45979), (73, 46012), (87, 46096), (105, 46243), (129, 46393), (144, 46474), (147, 46486),

Gene: Eyre_61 Start: 39340, Stop: 40278, Start Num: 26

Candidate Starts for Eyre_61:

(Start: 26 @39340 has 1 MA's), (69, 39550), (75, 39589), (78, 39598), (83, 39622), (85, 39652), (93, 39703), (118, 39862), (125, 39910), (142, 40030), (181, 40198), (186, 40219), (189, 40237), (190, 40246), (192, 40267),

Gene: GMA4_62 Start: 40731, Stop: 41486, Start Num: 59

Candidate Starts for GMA4_62:

(13, 40401), (59, 40731), (117, 41109), (141, 41280), (147, 41298), (157, 41346),

Gene: Getalong_99 Start: 53422, Stop: 54150, Start Num: 60

Candidate Starts for Getalong_99:

(Start: 60 @53422 has 21 MA's), (73, 53497), (100, 53680), (129, 53872), (133, 53896), (135, 53908), (136, 53920), (146, 53962), (147, 53965), (155, 54007), (156, 54010), (157, 54013), (159, 54016), (162, 54031), (164, 54043), (165, 54046), (177, 54112), (178, 54118),

Gene: Gudmit_65 Start: 38909, Stop: 39847, Start Num: 25

Candidate Starts for Gudmit_65:

(12, 38729), (20, 38858), (Start: 25 @38909 has 3 MA's), (39, 38990), (66, 39113), (69, 39125), (78, 39173), (80, 39188), (90, 39245), (102, 39347), (140, 39596), (153, 39659), (155, 39662), (181, 39770), (186, 39791), (189, 39809), (190, 39818),

Gene: Hortense_75 Start: 50324, Stop: 51061, Start Num: 60

Candidate Starts for Hortense_75:

(18, 50078), (36, 50225), (48, 50267), (Start: 60 @50324 has 21 MA's), (70, 50366), (73, 50399), (86, 50480), (87, 50483), (105, 50630), (129, 50780), (144, 50861), (147, 50873),

Gene: Howe_75 Start: 50324, Stop: 51061, Start Num: 60

Candidate Starts for Howe_75:

(18, 50078), (36, 50225), (48, 50267), (Start: 60 @50324 has 21 MA's), (70, 50366), (73, 50399), (86, 50480), (87, 50483), (105, 50630), (129, 50780), (144, 50861), (147, 50873),

Gene: Hum25_77 Start: 39455, Stop: 40183, Start Num: 57

Candidate Starts for Hum25_77:

(49, 39410), (Start: 57 @39455 has 1 MA's), (76, 39554), (77, 39560), (81, 39581), (82, 39584), (90, 39635), (108, 39773), (112, 39803), (129, 39905), (137, 39959), (163, 40070), (185, 40166),

Gene: IdentityCrisis_57 Start: 35089, Stop: 35964, Start Num: 41

Candidate Starts for IdentityCrisis_57:

(29, 35053), (Start: 41 @35089 has 1 MA's), (58, 35170), (81, 35284), (90, 35341), (98, 35395), (149, 35725), (150, 35731), (175, 35851),

Gene: Jace_92 Start: 51606, Stop: 52397, Start Num: 52

Candidate Starts for Jace_92:

(31, 51519), (Start: 52 @51606 has 1 MA's), (56, 51627), (82, 51756), (84, 51765), (137, 52119), (154, 52203), (156, 52206), (168, 52257), (182, 52320), (184, 52329), (191, 52377),

Gene: Jflix2_100 Start: 57187, Stop: 57882, Start Num: 62

Candidate Starts for Jflix2_100:

(Start: 62 @57187 has 2 MA's), (66, 57205), (72, 57244), (82, 57286), (89, 57328), (92, 57364), (104, 57436), (111, 57484), (124, 57559), (134, 57625), (149, 57706), (158, 57742), (166, 57775), (167, 57778), (172, 57814), (176, 57835), (187, 57874),

Gene: Kuwabara_89 Start: 52072, Stop: 52815, Start Num: 60

Candidate Starts for Kuwabara_89:

(24, 51901), (Start: 60 @52072 has 21 MA's), (87, 52237), (129, 52534), (144, 52615), (146, 52624), (147, 52627),

Gene: Lton_68 Start: 39225, Stop: 39968, Start Num: 60

Candidate Starts for Lton_68:

(24, 39054), (Start: 60 @39225 has 21 MA's), (87, 39390), (129, 39687), (144, 39768), (146, 39777), (147, 39780),

Gene: Lucky10_67 Start: 41325, Stop: 42068, Start Num: 60

Candidate Starts for Lucky10_67:

(23, 41145), (45, 41274), (46, 41277), (Start: 60 @41325 has 21 MA's), (73, 41406), (87, 41490), (91, 41514), (129, 41787), (144, 41868), (146, 41877), (147, 41880),

Gene: Madraxi_102 Start: 59347, Stop: 60069, Start Num: 62

Candidate Starts for Madraxi_102:

(Start: 62 @59347 has 2 MA's), (66, 59365), (72, 59404), (82, 59446), (89, 59488), (92, 59524), (95, 59536), (104, 59596), (115, 59671), (149, 59866), (162, 59917), (167, 59938), (171, 59968), (188, 60040),

Gene: Moosehead_71 Start: 39747, Stop: 40490, Start Num: 60

Candidate Starts for Moosehead_71:

(45, 39696), (46, 39699), (Start: 60 @39747 has 21 MA's), (87, 39912), (91, 39936), (144, 40290), (147, 40302), (156, 40347),

Gene: Morkie_71 Start: 40373, Stop: 41116, Start Num: 60

Candidate Starts for Morkie_71:

(24, 40202), (Start: 60 @40373 has 21 MA's), (87, 40538), (129, 40835), (144, 40916), (146, 40925), (147, 40928),

Gene: MrSmee_74 Start: 39014, Stop: 39739, Start Num: 60

Candidate Starts for MrSmee_74:

(Start: 60 @39014 has 21 MA's), (Start: 61 @39017 has 1 MA's), (76, 39107), (81, 39134), (82, 39137), (90, 39188), (93, 39221), (108, 39326), (112, 39356), (114, 39374), (134, 39491), (139, 39524), (163, 39626), (169, 39659), (185, 39722),

Gene: Mufasa8_85 Start: 50444, Stop: 51298, Start Num: 34

Candidate Starts for Mufasa8_85:

(Start: 34 @50444 has 1 MA's), (69, 50588), (76, 50633), (79, 50642), (87, 50696), (109, 50852), (119, 50897), (121, 50903), (151, 51086), (160, 51119), (163, 51128), (173, 51179), (176, 51203), (183, 51224), (185, 51233),

Gene: ODay_113 Start: 56624, Stop: 57352, Start Num: 60

Candidate Starts for ODay_113:

(50, 56576), (55, 56612), (Start: 60 @56624 has 21 MA's), (73, 56699), (87, 56777), (129, 57074), (133, 57098), (136, 57122), (146, 57164), (147, 57167), (152, 57200), (155, 57209), (156, 57212), (157, 57215), (159, 57218), (162, 57233), (164, 57245), (165, 57248), (177, 57314), (178, 57320),

Gene: OneDirection_65 Start: 37787, Stop: 38530, Start Num: 60

Candidate Starts for OneDirection_65:

(24, 37616), (Start: 60 @37787 has 21 MA's), (87, 37952), (129, 38249), (144, 38330), (146, 38339), (147, 38342),

Gene: P3MA_56 Start: 37899, Stop: 38774, Start Num: 40

Candidate Starts for P3MA_56:

(Start: 40 @37899 has 1 MA's), (58, 37983), (81, 38097), (87, 38139), (98, 38208), (99, 38220), (149, 38538), (162, 38586), (174, 38646), (179, 38676),

Gene: Pepperoni_64 Start: 38913, Stop: 39656, Start Num: 60

Candidate Starts for Pepperoni_64:

(Start: 60 @38913 has 21 MA's), (87, 39078), (129, 39375), (144, 39456), (146, 39465), (147, 39468),

Gene: PhorbesPhlower_69 Start: 39768, Stop: 40511, Start Num: 60

Candidate Starts for PhorbesPhlower_69:

(24, 39597), (Start: 60 @39768 has 21 MA's), (87, 39933), (129, 40230), (144, 40311), (146, 40320), (147, 40323),

Gene: Pitbull_74 Start: 38878, Stop: 39600, Start Num: 61

Candidate Starts for Pitbull_74:

(17, 38620), (21, 38650), (28, 38725), (30, 38758), (35, 38773), (Start: 38 @38782 has 1 MA's), (Start: 61 @38878 has 1 MA's), (65, 38908), (76, 38968), (81, 38995), (82, 38998), (90, 39049), (97, 39097), (108, 39187), (130, 39325), (134, 39352), (139, 39385), (163, 39487), (169, 39520), (185, 39583),

Gene: Shagrat_105 Start: 54894, Stop: 55640, Start Num: 54

Candidate Starts for Shagrat_105:

(15, 54600), (32, 54804), (42, 54837), (Start: 54 @54894 has 1 MA's), (63, 54939), (67, 54954), (71, 54969), (93, 55119), (107, 55200), (113, 55236), (120, 55272), (126, 55299), (137, 55386), (138, 55389), (148, 55437), (153, 55467), (158, 55479), (161, 55491), (167, 55515),

Gene: Shlim410_73 Start: 50324, Stop: 51061, Start Num: 60

Candidate Starts for Shlim410_73:

(18, 50078), (36, 50225), (48, 50267), (Start: 60 @50324 has 21 MA's), (70, 50366), (73, 50399), (86, 50480), (87, 50483), (105, 50630), (129, 50780), (144, 50861), (147, 50873),

Gene: Sleepyhead_65 Start: 41971, Stop: 42924, Start Num: 25

Candidate Starts for Sleepyhead_65:

(Start: 25 @41971 has 3 MA's), (47, 42088), (53, 42118), (79, 42250), (82, 42268), (99, 42391), (106, 42454), (110, 42478), (131, 42616), (143, 42670), (145, 42673),

Gene: Sonali_80 Start: 50220, Stop: 51053, Start Num: 38

Candidate Starts for Sonali_80:

(Start: 38 @50220 has 1 MA's), (64, 50325), (68, 50343), (79, 50406), (87, 50460), (91, 50484), (94, 50511), (96, 50514), (123, 50688), (185, 51000),

Gene: Twinkle_74 Start: 51383, Stop: 52120, Start Num: 60

Candidate Starts for Twinkle_74:

(18, 51137), (36, 51284), (48, 51326), (Start: 60 @51383 has 21 MA's), (70, 51425), (73, 51458), (86, 51539), (87, 51542), (105, 51689), (129, 51839), (144, 51920), (147, 51932),

Gene: Whack_70 Start: 45809, Stop: 46741, Start Num: 25

Candidate Starts for Whack_70:

(1, 44903), (2, 44915), (3, 44963), (4, 44984), (5, 45032), (6, 45044), (7, 45050), (8, 45080), (9, 45239), (10, 45278), (11, 45455), (16, 45686), (19, 45746), (22, 45764), (Start: 25 @45809 has 3 MA's), (33, 45875), (43, 45905), (53, 45956), (74, 46067), (88, 46148), (101, 46259), (106, 46286), (116, 46349), (122, 46376), (131, 46448), (143, 46502), (145, 46505), (169, 46616), (181, 46670), (186, 46691),