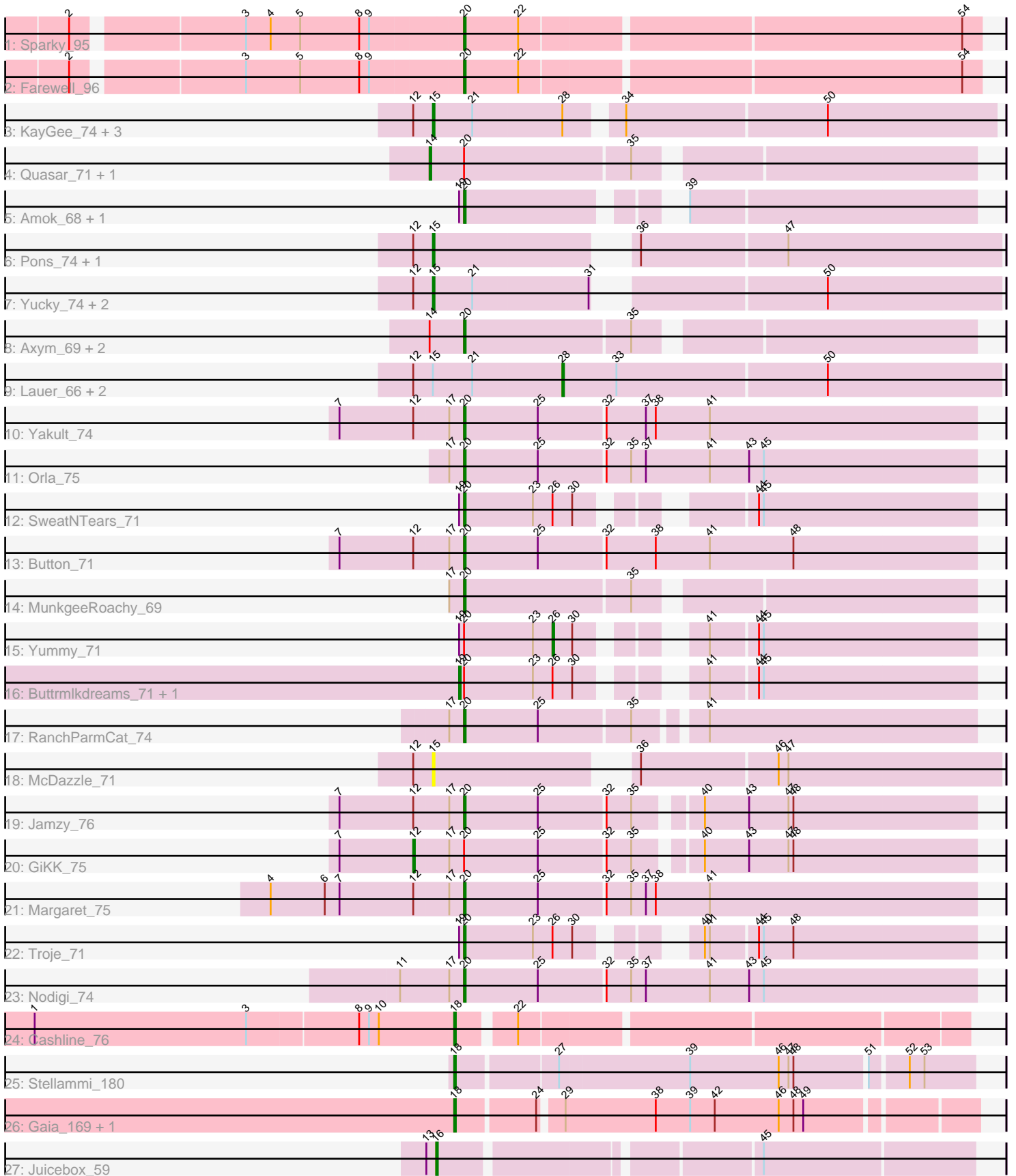


Pham 305139



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 305139 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305139 has 41 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Sparky_95
- Track 2 : Farewell_96
- Track 3 : KayGee_74, Mayweather_74, Elinal_76, Vine_74
- Track 4 : Quasar_71, Bubble_70
- Track 5 : Amok_68, Emalyn_67
- Track 6 : Pons_74, MAnor_73
- Track 7 : Yucky_74, SummitAcademy_71, PotPie_71
- Track 8 : Axym_69, Agatha_71, Burnsey_70
- Track 9 : Lauer_66, CocoaPuff_70, Balloona_71
- Track 10 : Yakult_74
- Track 11 : Orla_75
- Track 12 : SweatNTears_71
- Track 13 : Button_71
- Track 14 : MunkgeeRoachy_69
- Track 15 : Yummy_71
- Track 16 : Buttrmilkdreams_71, Horseradish_71
- Track 17 : RanchParmCat_74
- Track 18 : McDazzle_71
- Track 19 : Jamzy_76
- Track 20 : GiKK_75
- Track 21 : Margaret_75
- Track 22 : Troje_71
- Track 23 : Nodigi_74
- Track 24 : Cashline_76
- Track 25 : Stellammi_180
- Track 26 : Gaia_169, Nebkiss_165
- Track 27 : Juicebox_59

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 17 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agatha_71, Amok_68, Axym_69, Burnsey_70, Button_71, Emalyn_67, Farewell_96, Jamzy_76, Margaret_75, MunkgeeRoachy_69, Nodigi_74, Orla_75, RanchParmCat_74, Sparky_95, SweatNTears_71, Troje_71, Yakult_74,

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

- Bubble_70, Buttrmilkdreams_71, GiKK_75, Horseradish_71, Quasar_71, Yummy_71,

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

- Balloona_71, Cashline_76, CocoaPuff_70, Elinal_76, Gaia_169, Juicebox_59, KayGee_74, Lauer_66, MAnor_73, Mayweather_74, McDazzle_71, Nebkiss_165, Pons_74, PotPie_71, Stellammi_180, SummitAcademy_71, Vine_74, Yucky_74,

Summary by start number:

Start 12:

- Found in 18 of 41 (43.9%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 5.6% of time when present
- Phage (with cluster) where this start called: GiKK_75 (CT),

Start 14:

- Found in 5 of 41 (12.2%) of genes in pham
- Manual Annotations of this start: 2 of 38
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Bubble_70 (CT), Quasar_71 (CT),

Start 15:

- Found in 13 of 41 (31.7%) of genes in pham
- Manual Annotations of this start: 9 of 38
- Called 76.9% of time when present
- Phage (with cluster) where this start called: Elinal_76 (CT), KayGee_74 (CT), MAnor_73 (CT), Mayweather_74 (CT), McDazzle_71 (CT), Pons_74 (CT), PotPie_71 (CT), SummitAcademy_71 (CT), Vine_74 (CT), Yucky_74 (CT),

Start 16:

- Found in 1 of 41 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Juicebox_59 (singleton),

Start 18:

- Found in 4 of 41 (9.8%) of genes in pham
- Manual Annotations of this start: 4 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cashline_76 (CY6), Gaia_169 (X), Nebkiss_165 (X), Stellammi_180 (UNK),

Start 19:

- Found in 7 of 41 (17.1%) of genes in pham
- Manual Annotations of this start: 2 of 38
- Called 28.6% of time when present

- Phage (with cluster) where this start called: Buttrmlkdreams_71 (CT), Horseradish_71 (CT),

Start 20:

- Found in 23 of 41 (56.1%) of genes in pham
- Manual Annotations of this start: 17 of 38
- Called 73.9% of time when present
- Phage (with cluster) where this start called: Agatha_71 (CT), Amok_68 (CT), Axym_69 (CT), Burnsey_70 (CT), Button_71 (CT), Emalyn_67 (CT), Farewell_96 (AF), Jamzy_76 (CT), Margaret_75 (CT), MunkgeeRoachy_69 (CT), Nodigi_74 (CT), Orla_75 (CT), RanchParmCat_74 (CT), Sparky_95 (AF), SweatNTears_71 (CT), Troje_71 (CT), Yakult_74 (CT),

Start 26:

- Found in 5 of 41 (12.2%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Yummy_71 (CT),

Start 28:

- Found in 7 of 41 (17.1%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Balloona_71 (CT), CocoaPuff_70 (CT), Lauer_66 (CT),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, CY6, AF, X, UNK, CT,

Info for manual annotations of cluster AF:

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

Info for manual annotations of cluster CT:

- Start number 12 was manually annotated 1 time for cluster CT.
- Start number 14 was manually annotated 2 times for cluster CT.
- Start number 15 was manually annotated 9 times for cluster CT.
- Start number 19 was manually annotated 2 times for cluster CT.
- Start number 20 was manually annotated 15 times for cluster CT.
- Start number 26 was manually annotated 1 time for cluster CT.
- Start number 28 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster CY6:

- Start number 18 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster UNK:

- Start number 18 was manually annotated 1 time for cluster UNK.

Info for manual annotations of cluster X:

- Start number 18 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Agatha_71 Start: 46233, Stop: 46523, Start Num: 20

Candidate Starts for Agatha_71:

(Start: 14 @46212 has 2 MA's), (Start: 20 @46233 has 17 MA's), (35, 46332),

Gene: Amok_68 Start: 44983, Stop: 45258, Start Num: 20

Candidate Starts for Amok_68:

(Start: 19 @44980 has 2 MA's), (Start: 20 @44983 has 17 MA's), (39, 45088),

Gene: Axym_69 Start: 46163, Stop: 46453, Start Num: 20

Candidate Starts for Axym_69:

(Start: 14 @46142 has 2 MA's), (Start: 20 @46163 has 17 MA's), (35, 46262),

Gene: Balloona_71 Start: 47653, Stop: 47916, Start Num: 28

Candidate Starts for Balloona_71:

(Start: 12 @47563 has 1 MA's), (Start: 15 @47575 has 9 MA's), (21, 47599), (Start: 28 @47653 has 1 MA's), (33, 47686), (50, 47812),

Gene: Bubble_70 Start: 46197, Stop: 46508, Start Num: 14

Candidate Starts for Bubble_70:

(Start: 14 @46197 has 2 MA's), (Start: 20 @46218 has 17 MA's), (35, 46317),

Gene: Burnsey_70 Start: 45875, Stop: 46165, Start Num: 20

Candidate Starts for Burnsey_70:

(Start: 14 @45854 has 2 MA's), (Start: 20 @45875 has 17 MA's), (35, 45974),

Gene: Button_71 Start: 45762, Stop: 46070, Start Num: 20

Candidate Starts for Button_71:

(7, 45687), (Start: 12 @45732 has 1 MA's), (17, 45753), (Start: 20 @45762 has 17 MA's), (25, 45807), (32, 45846), (38, 45876), (41, 45909), (48, 45960),

Gene: Buttrmilkdreams_71 Start: 45701, Stop: 45979, Start Num: 19

Candidate Starts for Buttrmilkdreams_71:

(Start: 19 @45701 has 2 MA's), (Start: 20 @45704 has 17 MA's), (23, 45746), (Start: 26 @45758 has 1 MA's), (30, 45770), (41, 45821), (44, 45848), (45, 45851),

Gene: Cashline_76 Start: 52028, Stop: 52315, Start Num: 18

Candidate Starts for Cashline_76:

(1, 51776), (3, 51905), (8, 51971), (9, 51977), (10, 51983), (Start: 18 @52028 has 4 MA's), (22, 52058),

Gene: CocoaPuff_70 Start: 46933, Stop: 47196, Start Num: 28

Candidate Starts for CocoaPuff_70:

(Start: 12 @46843 has 1 MA's), (Start: 15 @46855 has 9 MA's), (21, 46879), (Start: 28 @46933 has 1 MA's), (33, 46966), (50, 47092),

Gene: Elinal_76 Start: 48006, Stop: 48332, Start Num: 15

Candidate Starts for Elinal_76:

(Start: 12 @47994 has 1 MA's), (Start: 15 @48006 has 9 MA's), (21, 48030), (Start: 28 @48084 has 1 MA's), (34, 48111), (50, 48231),

Gene: Emalyn_67 Start: 43687, Stop: 43962, Start Num: 20

Candidate Starts for Emalyn_67:

(Start: 19 @43684 has 2 MA's), (Start: 20 @43687 has 17 MA's), (39, 43792),

Gene: Farewell_96 Start: 61361, Stop: 61663, Start Num: 20

Candidate Starts for Farewell_96:

(2, 61136), (3, 61232), (5, 61265), (8, 61301), (9, 61307), (Start: 20 @61361 has 17 MA's), (22, 61394), (54, 61652),

Gene: Gaia_169 Start: 83930, Stop: 84226, Start Num: 18

Candidate Starts for Gaia_169:

(Start: 18 @83930 has 4 MA's), (24, 83975), (29, 83987), (38, 84041), (39, 84062), (42, 84077), (46, 84116), (48, 84125), (49, 84131),

Gene: GiKK_75 Start: 47115, Stop: 47441, Start Num: 12

Candidate Starts for GiKK_75:

(7, 47070), (Start: 12 @47115 has 1 MA's), (17, 47136), (Start: 20 @47145 has 17 MA's), (25, 47190), (32, 47229), (35, 47244), (40, 47277), (43, 47304), (47, 47328), (48, 47331),

Gene: Horseradish_71 Start: 45465, Stop: 45743, Start Num: 19

Candidate Starts for Horseradish_71:

(Start: 19 @45465 has 2 MA's), (Start: 20 @45468 has 17 MA's), (23, 45510), (Start: 26 @45522 has 1 MA's), (30, 45534), (41, 45585), (44, 45612), (45, 45615),

Gene: Jamzy_76 Start: 46875, Stop: 47171, Start Num: 20

Candidate Starts for Jamzy_76:

(7, 46800), (Start: 12 @46845 has 1 MA's), (17, 46866), (Start: 20 @46875 has 17 MA's), (25, 46920), (32, 46959), (35, 46974), (40, 47007), (43, 47034), (47, 47058), (48, 47061),

Gene: Juicebox_59 Start: 41044, Stop: 41346, Start Num: 16

Candidate Starts for Juicebox_59:

(13, 41038), (Start: 16 @41044 has 1 MA's), (45, 41221),

Gene: KayGee_74 Start: 48035, Stop: 48361, Start Num: 15

Candidate Starts for KayGee_74:

(Start: 12 @48023 has 1 MA's), (Start: 15 @48035 has 9 MA's), (21, 48059), (Start: 28 @48113 has 1 MA's), (34, 48140), (50, 48260),

Gene: Lauer_66 Start: 47856, Stop: 48119, Start Num: 28

Candidate Starts for Lauer_66:

(Start: 12 @47766 has 1 MA's), (Start: 15 @47778 has 9 MA's), (21, 47802), (Start: 28 @47856 has 1 MA's), (33, 47889), (50, 48015),

Gene: MAnor_73 Start: 48015, Stop: 48329, Start Num: 15

Candidate Starts for MAnor_73:

(Start: 12 @48003 has 1 MA's), (Start: 15 @48015 has 9 MA's), (36, 48114), (47, 48201),

Gene: Margaret_75 Start: 46622, Stop: 46930, Start Num: 20

Candidate Starts for Margaret_75:

(4, 46505), (6, 46538), (7, 46547), (Start: 12 @46592 has 1 MA's), (17, 46613), (Start: 20 @46622 has 17 MA's), (25, 46667), (32, 46706), (35, 46721), (37, 46730), (38, 46736), (41, 46769),

Gene: Mayweather_74 Start: 48037, Stop: 48378, Start Num: 15

Candidate Starts for Mayweather_74:

(Start: 12 @48025 has 1 MA's), (Start: 15 @48037 has 9 MA's), (21, 48061), (Start: 28 @48115 has 1 MA's), (34, 48154), (50, 48274),

Gene: McDazzle_71 Start: 47583, Stop: 47897, Start Num: 15

Candidate Starts for McDazzle_71:

(Start: 12 @47571 has 1 MA's), (Start: 15 @47583 has 9 MA's), (36, 47682), (46, 47763), (47, 47769),

Gene: MunkgeeRoachy_69 Start: 45602, Stop: 45892, Start Num: 20

Candidate Starts for MunkgeeRoachy_69:

(17, 45596), (Start: 20 @45602 has 17 MA's), (35, 45701),

Gene: Nebkiss_165 Start: 79421, Stop: 79717, Start Num: 18

Candidate Starts for Nebkiss_165:

(Start: 18 @79421 has 4 MA's), (24, 79466), (29, 79478), (38, 79532), (39, 79553), (42, 79568), (46, 79607), (48, 79616), (49, 79622),

Gene: Nodigi_74 Start: 46877, Stop: 47185, Start Num: 20

Candidate Starts for Nodigi_74:

(11, 46838), (17, 46868), (Start: 20 @46877 has 17 MA's), (25, 46922), (32, 46961), (35, 46976), (37, 46985), (41, 47024), (43, 47048), (45, 47057),

Gene: Orla_75 Start: 47026, Stop: 47334, Start Num: 20

Candidate Starts for Orla_75:

(17, 47017), (Start: 20 @47026 has 17 MA's), (25, 47071), (32, 47110), (35, 47125), (37, 47134), (41, 47173), (43, 47197), (45, 47206),

Gene: Pons_74 Start: 47664, Stop: 47978, Start Num: 15

Candidate Starts for Pons_74:

(Start: 12 @47652 has 1 MA's), (Start: 15 @47664 has 9 MA's), (36, 47763), (47, 47850),

Gene: PotPie_71 Start: 47864, Stop: 48178, Start Num: 15

Candidate Starts for PotPie_71:

(Start: 12 @47852 has 1 MA's), (Start: 15 @47864 has 9 MA's), (21, 47888), (31, 47957), (50, 48074),

Gene: Quasar_71 Start: 46628, Stop: 46939, Start Num: 14

Candidate Starts for Quasar_71:

(Start: 14 @46628 has 2 MA's), (Start: 20 @46649 has 17 MA's), (35, 46748),

Gene: RanchParmCat_74 Start: 46910, Stop: 47206, Start Num: 20

Candidate Starts for RanchParmCat_74:

(17, 46901), (Start: 20 @46910 has 17 MA's), (25, 46955), (35, 47009), (41, 47045),

Gene: Sparky_95 Start: 62955, Stop: 63257, Start Num: 20

Candidate Starts for Sparky_95:

(2, 62730), (3, 62826), (4, 62841), (5, 62859), (8, 62895), (9, 62901), (Start: 20 @62955 has 17 MA's), (22, 62988), (54, 63246),

Gene: Stellammi_180 Start: 80295, Stop: 80594, Start Num: 18

Candidate Starts for Stellammi_180:

(Start: 18 @80295 has 4 MA's), (27, 80352), (39, 80430), (46, 80484), (47, 80490), (48, 80493), (51, 80535), (52, 80556), (53, 80565),

Gene: SummitAcademy_71 Start: 47007, Stop: 47324, Start Num: 15

Candidate Starts for SummitAcademy_71:

(Start: 12 @46995 has 1 MA's), (Start: 15 @47007 has 9 MA's), (21, 47031), (31, 47100), (50, 47217),

Gene: SweatNTears_71 Start: 45622, Stop: 45897, Start Num: 20

Candidate Starts for SweatNTears_71:

(Start: 19 @45619 has 2 MA's), (Start: 20 @45622 has 17 MA's), (23, 45664), (Start: 26 @45676 has 1 MA's), (30, 45688), (44, 45766), (45, 45769),

Gene: Troje_71 Start: 45614, Stop: 45889, Start Num: 20

Candidate Starts for Troje_71:

(Start: 19 @45611 has 2 MA's), (Start: 20 @45614 has 17 MA's), (23, 45656), (Start: 26 @45668 has 1 MA's), (30, 45680), (40, 45728), (41, 45731), (44, 45758), (45, 45761), (48, 45779),

Gene: Vine_74 Start: 47747, Stop: 48088, Start Num: 15

Candidate Starts for Vine_74:

(Start: 12 @47735 has 1 MA's), (Start: 15 @47747 has 9 MA's), (21, 47771), (Start: 28 @47825 has 1 MA's), (34, 47864), (50, 47984),

Gene: Yakult_74 Start: 46869, Stop: 47177, Start Num: 20

Candidate Starts for Yakult_74:

(7, 46794), (Start: 12 @46839 has 1 MA's), (17, 46860), (Start: 20 @46869 has 17 MA's), (25, 46914), (32, 46953), (37, 46977), (38, 46983), (41, 47016),

Gene: Yucky_74 Start: 47485, Stop: 47799, Start Num: 15

Candidate Starts for Yucky_74:

(Start: 12 @47473 has 1 MA's), (Start: 15 @47485 has 9 MA's), (21, 47509), (31, 47578), (50, 47695),

Gene: Yummy_71 Start: 45636, Stop: 45857, Start Num: 26

Candidate Starts for Yummy_71:

(Start: 19 @45579 has 2 MA's), (Start: 20 @45582 has 17 MA's), (23, 45624), (Start: 26 @45636 has 1 MA's), (30, 45648), (41, 45699), (44, 45726), (45, 45729),