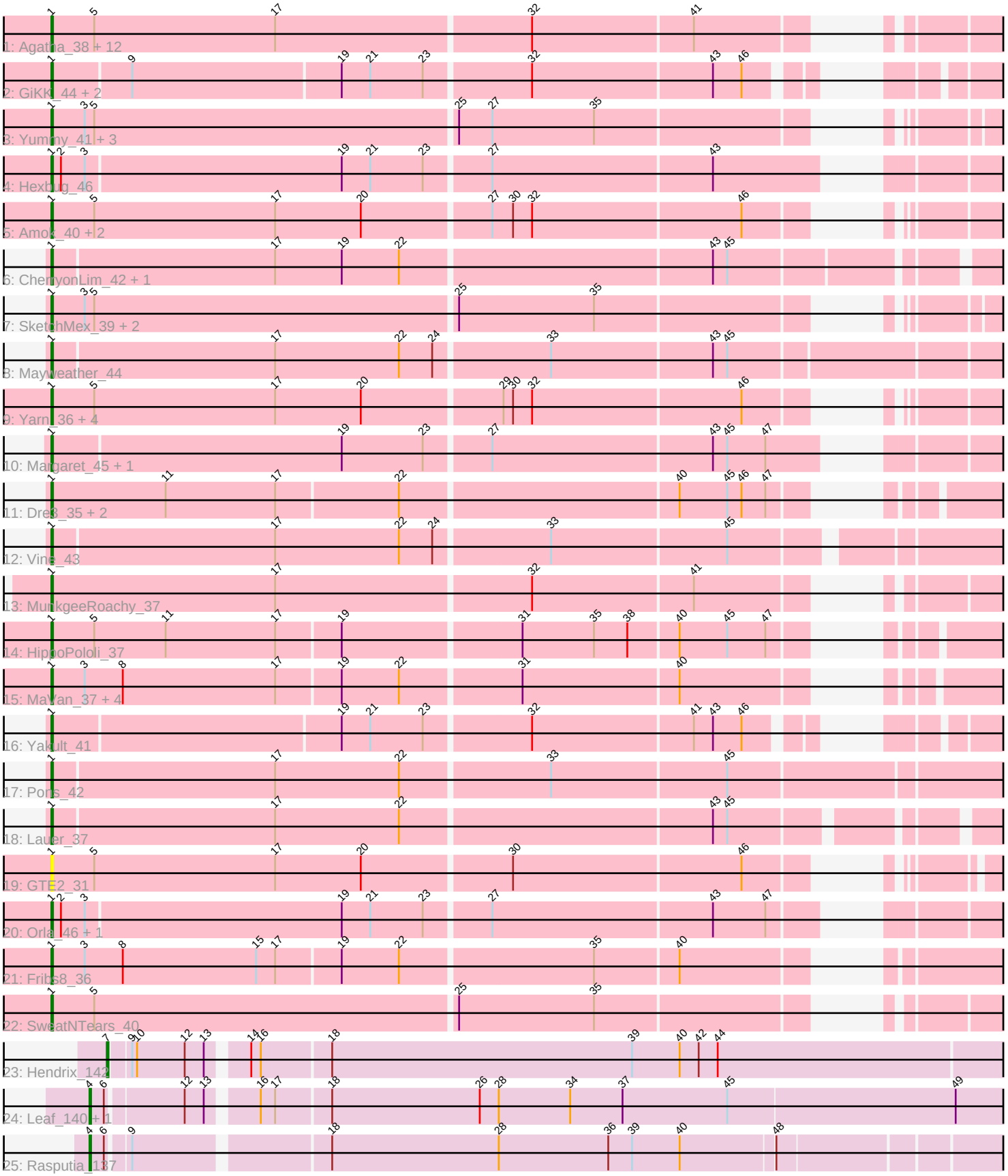
Pham 196555


1: Agatha_38 + 12
2: GiKK_44 + 2
3: Yummy_41 + 3
4: Hexbug_46
5: Amos_40 + 2
6: ChernyonLim_42 + 1
7: SketchMex_39 + 2
8: Mayweather_44
9: Yarn_36 + 4
10: Margaret_45 + 1
11: Dre8_35 + 2
12: Vine_43
13: MunkgeeRoachy_37
14: HippoPololi_37
15: MaYan_37 + 4
16: Yakult_41
17: Poris_42
18: Lauer_37
19: GTE2_31
20: Orla_46 + 1
21: Fribs8_36
22: SweatNTears_40
23: Hendrix_142
24: Leaf_140 + 1
25: Rasputia_137

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 196555 Report

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

Pham number 196555 has 60 members, 10 are drafts.

Phages represented in each track:
• Track 1 : Agatha_38, Eliott_39, Nina_38, Cozz_37, Quasar_39, GoldHunter_40, RedBaron_41, PsychoKiller_38, Sopespian_38, Typhonomachy_38, Axym_38, Burnsey_38, Carsonalex_42
• Track 2 : GiKK_44, Button_42, Jamzy_44
• Track 3 : Yummy_41, Buttrmlkdreams_41, MScarn_42, Horseradish_41
• Track 4 : Hexbug_46
• Track 5 : Amok_40, AikoCarson_40, Emalyn_39
• Track 6 : CherryonLim_42, SheckWes_43
• Track 7 : SketchMex_39, Troje_41, Biskit_41
• Track 8 : Mayweather_44
• Track 9 : Yarn_36, Tolls_40, BillDoor_39, AndPeggy_36, SteamedHams_40
• Track 10 : Margaret_45, RanchParmCat_44
• Track 11 : Dre3_35, Cleo_35, Gibbous_35
• Track 12 : Vine_43
• Track 13 : MunkgeeRoachy_37
• Track 14 : HippoPololi_37
• Track 15 : MaVan_37, Nibbles_36, Survivors_37, Zareef_39, Azira_37
• Track 16 : Yakult_41
• Track 17 : Pons_42
• Track 18 : Lauer_37
• Track 19 : GTE2_31
• Track 20 : Orla_46, Nodigi_46
• Track 21 : Fribs8_36
• Track 22 : SweatNTears_40
• Track 23 : Hendrix_142
• Track 24 : Leaf_140, Dewdrop_140
• Track 25 : Rasputia_137

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

The start number called the most often in the published annotations is 1, it was called in 46 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Agatha_38, AikoCarson_40, Amok_40, AndPeggy_36, Axym_38, Azira_37, BillDoor_39, Biskit_41, Burnsey_38, Button_42, Buttrmlkdreams_41, Carsonalex_42, CherryonLim_42, Cleo_35, Cozz_37, Dre3_35, Eliott_39, Emalyn_39, Fribs8_36, GTE2_31, GiKK_44, Gibbous_35, GoldHunter_40, Hexbug_46, HippoPololi_37, Horseradish_41, Jamzy_44, Lauer_37, MScarn_42, MaVan_37, Margaret_45, Mayweather_44, MunkgeeRoachy_37, Nibbles_36, Nina_38, Nodigi_46, Orla_46, Pons_42, PsychoKiller_38, Quasar_39, RanchParmCat_44, RedBaron_41, SheckWes_43, SketchMex_39, Sopespian_38, SteamedHams_40, Survivors_37, SweatNTears_40, Tolls_40, Troje_41, Typhonomachy_38, Vine_43, Yakult_41, Yarn_36, Yummy_41, Zareef_39,

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

Genes that do not have the "Most Annotated" start:
• Dewdrop_140, Hendrix_142, Leaf_140, Rasputia_137,

Summary by start number:

Start 1:
• Found in 56 of 60 (93.3%) of genes in pham
• Manual Annotations of this start: 46 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agatha_38 (CT), AikoCarson_40 (CT), Amok_40 (CT), AndPeggy_36 (CT), Axym_38 (CT), Azira_37 (CT), BillDoor_39 (CT), Biskit_41 (CT), Burnsey_38 (CT), Button_42 (CT), Buttrmlkdreams_41 (CT), Carsonalex_42 (CT), CherryonLim_42 (CT), Cleo_35 (CT), Cozz_37 (CT), Dre3_35 (CT), Eliott_39 (CT), Emalyn_39 (CT), Fribs8_36 (CT), GTE2_31 (CT), GiKK_44 (CT), Gibbous_35 (CT), GoldHunter_40 (CT), Hexbug_46 (CT), HippoPololi_37 (CT), Horseradish_41 (CT), Jamzy_44 (CT), Lauer_37 (CT), MScarn_42 (CT), MaVan_37 (CT), Margaret_45 (CT), Mayweather_44 (CT), MunkgeeRoachy_37 (CT), Nibbles_36 (CT), Nina_38 (CT), Nodigi_46 (CT), Orla_46 (CT), Pons_42 (CT), PsychoKiller_38 (CT), Quasar_39 (CT), RanchParmCat_44 (CT), RedBaron_41 (CT), SheckWes_43 (CT), SketchMex_39 (CT), Sopespian_38 (CT), SteamedHams_40 (CT), Survivors_37 (CT), SweatNTears_40 (CT), Tolls_40 (CT), Troje_41 (CT), Typhonomachy_38 (CT), Vine_43 (CT), Yakult_41 (CT), Yarn_36 (CT), Yummy_41 (CT), Zareef_39 (CT),

Start 4:
• Found in 3 of 60 (5.0%) of genes in pham
• Manual Annotations of this start: 3 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dewdrop_140 (GC), Leaf_140 (GC), Rasputia_137 (GC),

Start 7:
• Found in 1 of 60 (1.7%) of genes in pham
• Manual Annotations of this start: 1 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hendrix_142 (GC),

Summary by clusters:

There are 2 clusters represented in this pham: GC, CT,

Info for manual annotations of cluster CT:
•Start number 1 was manually annotated 46 times for cluster CT.

Info for manual annotations of cluster GC:
•Start number 4 was manually annotated 3 times for cluster GC.
•Start number 7 was manually annotated 1 time for cluster GC.

Gene Information:

Gene: Agatha_38 Start: 27790, Stop: 27239, Start Num: 1
Candidate Starts for Agatha_38:
(Start: 1 @27790 has 46 MA's), (5, 27763), (17, 27649), (32, 27493), (41, 27394),

Gene: AikoCarson_40 Start: 28146, Stop: 27598, Start Num: 1
Candidate Starts for AikoCarson_40:
(Start: 1 @28146 has 46 MA's), (5, 28119), (17, 28005), (20, 27951), (27, 27873), (30, 27861), (32, 27849), (46, 27720),

Gene: Amok_40 Start: 28170, Stop: 27622, Start Num: 1
Candidate Starts for Amok_40:
(Start: 1 @28170 has 46 MA's), (5, 28143), (17, 28029), (20, 27975), (27, 27897), (30, 27885), (32, 27873), (46, 27744),

Gene: AndPeggy_36 Start: 27570, Stop: 27022, Start Num: 1
Candidate Starts for AndPeggy_36:
(Start: 1 @27570 has 46 MA's), (5, 27543), (17, 27429), (20, 27375), (29, 27291), (30, 27285), (32, 27273), (46, 27144),

Gene: Axym_38 Start: 27768, Stop: 27217, Start Num: 1
Candidate Starts for Axym_38:
(Start: 1 @27768 has 46 MA's), (5, 27741), (17, 27627), (32, 27471), (41, 27372),

Gene: Azira_37 Start: 27822, Stop: 27271, Start Num: 1
Candidate Starts for Azira_37:
(Start: 1 @27822 has 46 MA's), (3, 27801), (8, 27777), (17, 27681), (19, 27642), (22, 27606), (31, 27534), (40, 27438),

Gene: BillDoor_39 Start: 27241, Stop: 26699, Start Num: 1
Candidate Starts for BillDoor_39:
(Start: 1 @27241 has 46 MA's), (5, 27214), (17, 27100), (20, 27046), (29, 26962), (30, 26956), (32, 26944), (46, 26815),

Gene: Biskit_41 Start: 27935, Stop: 27390, Start Num: 1
Candidate Starts for Biskit_41:
(Start: 1 @27935 has 46 MA's), (3, 27914), (5, 27908), (25, 27683), (35, 27599),

Gene: Burnsey_38 Start: 27781, Stop: 27230, Start Num: 1
Candidate Starts for Burnsey_38:
(Start: 1 @27781 has 46 MA's), (5, 27754), (17, 27640), (32, 27484), (41, 27385),

Gene: Button_42 Start: 28421, Stop: 27879, Start Num: 1
Candidate Starts for Button_42:
(Start: 1 @28421 has 46 MA's), (9, 28373), (19, 28244), (21, 28226), (23, 28193), (32, 28130), (43, 28019), (46, 28001),

Gene: Buttrmlkdreams_41 Start: 28267, Stop: 27722, Start Num: 1
Candidate Starts for Buttrmlkdreams_41:
(Start: 1 @28267 has 46 MA's), (3, 28246), (5, 28240), (25, 28015), (27, 27994), (35, 27931),

Gene: Carsonalex_42 Start: 27818, Stop: 27267, Start Num: 1
Candidate Starts for Carsonalex_42:
(Start: 1 @27818 has 46 MA's), (5, 27791), (17, 27677), (32, 27521), (41, 27422),

Gene: CherryonLim_42 Start: 30519, Stop: 29932, Start Num: 1
Candidate Starts for CherryonLim_42:
(Start: 1 @30519 has 46 MA's), (17, 30381), (19, 30339), (22, 30303), (43, 30114), (45, 30105),

Gene: Cleo_35 Start: 27367, Stop: 26819, Start Num: 1
Candidate Starts for Cleo_35:
(Start: 1 @27367 has 46 MA's), (11, 27295), (17, 27226), (22, 27151), (40, 26983), (45, 26953), (46, 26944), (47, 26929),

Gene: Cozz_37 Start: 27378, Stop: 26827, Start Num: 1
Candidate Starts for Cozz_37:
(Start: 1 @27378 has 46 MA's), (5, 27351), (17, 27237), (32, 27081), (41, 26982),

Gene: Dewdrop_140 Start: 84117, Stop: 84695, Start Num: 4
Candidate Starts for Dewdrop_140:
(Start: 4 @84117 has 3 MA's), (6, 84126), (12, 84171), (13, 84183), (16, 84210), (17, 84219), (18, 84252), (26, 84345), (28, 84357), (34, 84402), (37, 84435), (45, 84501), (49, 84642),

Gene: Dre3_35 Start: 27110, Stop: 26562, Start Num: 1
Candidate Starts for Dre3_35:
(Start: 1 @27110 has 46 MA's), (11, 27038), (17, 26969), (22, 26894), (40, 26726), (45, 26696), (46, 26687), (47, 26672),

Gene: Eliott_39 Start: 27789, Stop: 27238, Start Num: 1
Candidate Starts for Eliott_39:
(Start: 1 @27789 has 46 MA's), (5, 27762), (17, 27648), (32, 27492), (41, 27393),

Gene: Emalyn_39 Start: 27338, Stop: 26793, Start Num: 1
Candidate Starts for Emalyn_39:
(Start: 1 @27338 has 46 MA's), (5, 27311), (17, 27197), (20, 27143), (27, 27065), (30, 27053), (32, 27041), (46, 26912),

Gene: Fribs8_36 Start: 27549, Stop: 26995, Start Num: 1
Candidate Starts for Fribs8_36:
(Start: 1 @27549 has 46 MA's), (3, 27528), (8, 27504), (15, 27420), (17, 27408), (19, 27369), (22, 27333), (35, 27216), (40, 27165),

Gene: GTE2_31 Start: 27554, Stop: 27012, Start Num: 1
Candidate Starts for GTE2_31:

(Start: 1 @27554 has 46 MA's), (5, 27527), (17, 27413), (20, 27359), (30, 27269), (46, 27128),

Gene: GiKK_44 Start: 28751, Stop: 28209, Start Num: 1
Candidate Starts for GiKK_44:
(Start: 1 @28751 has 46 MA's), (9, 28703), (19, 28574), (21, 28556), (23, 28523), (32, 28460), (43, 28349), (46, 28331),

Gene: Gibbous_35 Start: 27110, Stop: 26562, Start Num: 1
Candidate Starts for Gibbous_35:
(Start: 1 @27110 has 46 MA's), (11, 27038), (17, 26969), (22, 26894), (40, 26726), (45, 26696), (46, 26687), (47, 26672),

Gene: GoldHunter_40 Start: 27790, Stop: 27239, Start Num: 1
Candidate Starts for GoldHunter_40:
(Start: 1 @27790 has 46 MA's), (5, 27763), (17, 27649), (32, 27493), (41, 27394),

Gene: Hendrix_142 Start: 88084, Stop: 88653, Start Num: 7
Candidate Starts for Hendrix_142:
(Start: 7 @88084 has 1 MA's), (9, 88096), (10, 88099), (12, 88129), (13, 88141), (14, 88162), (16, 88168), (18, 88210), (39, 88399), (40, 88429), (42, 88441), (44, 88453),

Gene: Hexbug_46 Start: 30533, Stop: 29970, Start Num: 1
Candidate Starts for Hexbug_46:
(Start: 1 @30533 has 46 MA's), (2, 30527), (3, 30512), (19, 30353), (21, 30335), (23, 30302), (27, 30263), (43, 30128),

Gene: HippoPololi_37 Start: 27564, Stop: 27016, Start Num: 1
Candidate Starts for HippoPololi_37:
(Start: 1 @27564 has 46 MA's), (5, 27537), (11, 27492), (17, 27423), (19, 27384), (31, 27276), (35, 27231), (38, 27210), (40, 27180), (45, 27150), (47, 27126),

Gene: Horseradish_41 Start: 27795, Stop: 27250, Start Num: 1
Candidate Starts for Horseradish_41:
(Start: 1 @27795 has 46 MA's), (3, 27774), (5, 27768), (25, 27543), (27, 27522), (35, 27459),

Gene: Jamzy_44 Start: 28734, Stop: 28192, Start Num: 1
Candidate Starts for Jamzy_44:
(Start: 1 @28734 has 46 MA's), (9, 28686), (19, 28557), (21, 28539), (23, 28506), (32, 28443), (43, 28332), (46, 28314),

Gene: Lauer_37 Start: 30578, Stop: 29997, Start Num: 1
Candidate Starts for Lauer_37:
(Start: 1 @30578 has 46 MA's), (17, 30440), (22, 30362), (43, 30173), (45, 30164),

Gene: Leaf_140 Start: 84048, Stop: 84626, Start Num: 4
Candidate Starts for Leaf_140:
(Start: 4 @84048 has 3 MA's), (6, 84057), (12, 84102), (13, 84114), (16, 84141), (17, 84150), (18, 84183), (26, 84276), (28, 84288), (34, 84333), (37, 84366), (45, 84432), (49, 84573),

Gene: MScarn_42 Start: 27935, Stop: 27390, Start Num: 1
Candidate Starts for MScarn_42:
(Start: 1 @27935 has 46 MA's), (3, 27914), (5, 27908), (25, 27683), (27, 27662), (35, 27599),

Gene: MaVan_37 Start: 27851, Stop: 27303, Start Num: 1
Candidate Starts for MaVan_37:
(Start: 1 @27851 has 46 MA's), (3, 27830), (8, 27806), (17, 27710), (19, 27671), (22, 27635), (31, 27563), (40, 27467),

Gene: Margaret_45 Start: 29479, Stop: 28916, Start Num: 1
Candidate Starts for Margaret_45:
(Start: 1 @29479 has 46 MA's), (19, 29299), (23, 29248), (27, 29209), (43, 29074), (45, 29065), (47, 29041),

Gene: Mayweather_44 Start: 30390, Stop: 29791, Start Num: 1
Candidate Starts for Mayweather_44:
(Start: 1 @30390 has 46 MA's), (17, 30252), (22, 30174), (24, 30153), (33, 30084), (43, 29985), (45, 29976),

Gene: MunkgeeRoachy_37 Start: 27252, Stop: 26701, Start Num: 1
Candidate Starts for MunkgeeRoachy_37:
(Start: 1 @27252 has 46 MA's), (17, 27111), (32, 26955), (41, 26856),

Gene: Nibbles_36 Start: 27538, Stop: 26987, Start Num: 1
Candidate Starts for Nibbles_36:
(Start: 1 @27538 has 46 MA's), (3, 27517), (8, 27493), (17, 27397), (19, 27358), (22, 27322), (31, 27250), (40, 27154),

Gene: Nina_38 Start: 27914, Stop: 27363, Start Num: 1
Candidate Starts for Nina_38:
(Start: 1 @27914 has 46 MA's), (5, 27887), (17, 27773), (32, 27617), (41, 27518),

Gene: Nodigi_46 Start: 30519, Stop: 29959, Start Num: 1
Candidate Starts for Nodigi_46:
(Start: 1 @30519 has 46 MA's), (2, 30513), (3, 30498), (19, 30339), (21, 30321), (23, 30288), (27, 30249), (43, 30114), (47, 30081),

Gene: Orla_46 Start: 30492, Stop: 29932, Start Num: 1
Candidate Starts for Orla_46:
(Start: 1 @30492 has 46 MA's), (2, 30486), (3, 30471), (19, 30312), (21, 30294), (23, 30261), (27, 30222), (43, 30087), (47, 30054),

Gene: Pons_42 Start: 29741, Stop: 29139, Start Num: 1
Candidate Starts for Pons_42:
(Start: 1 @29741 has 46 MA's), (17, 29603), (22, 29525), (33, 29435), (45, 29327),

Gene: PsychoKiller_38 Start: 27790, Stop: 27239, Start Num: 1
Candidate Starts for PsychoKiller_38:
(Start: 1 @27790 has 46 MA's), (5, 27763), (17, 27649), (32, 27493), (41, 27394),

Gene: Quasar_39 Start: 28338, Stop: 27787, Start Num: 1
Candidate Starts for Quasar_39:
(Start: 1 @28338 has 46 MA's), (5, 28311), (17, 28197), (32, 28041), (41, 27942),

Gene: RanchParmCat_44 Start: 29617, Stop: 29066, Start Num: 1
Candidate Starts for RanchParmCat_44:

(Start: 1 @29617 has 46 MA's), (19, 29437), (23, 29386), (27, 29347), (43, 29212), (45, 29203), (47, 29179),

Gene: Rasputia_137 Start: 85507, Stop: 86073, Start Num: 4
Candidate Starts for Rasputia_137:
(Start: 4 @85507 has 3 MA's), (6, 85516), (9, 85528), (18, 85642), (28, 85747), (36, 85816), (39, 85831), (40, 85861), (48, 85918),

Gene: RedBaron_41 Start: 28027, Stop: 27476, Start Num: 1
Candidate Starts for RedBaron_41:
(Start: 1 @28027 has 46 MA's), (5, 28000), (17, 27886), (32, 27730), (41, 27631),

Gene: SheckWes_43 Start: 29265, Stop: 28660, Start Num: 1
Candidate Starts for SheckWes_43:
(Start: 1 @29265 has 46 MA's), (17, 29127), (19, 29085), (22, 29049), (43, 28860), (45, 28851),

Gene: SketchMex_39 Start: 27935, Stop: 27390, Start Num: 1
Candidate Starts for SketchMex_39:
(Start: 1 @27935 has 46 MA's), (3, 27914), (5, 27908), (25, 27683), (35, 27599),

Gene: Sopespian_38 Start: 27791, Stop: 27240, Start Num: 1
Candidate Starts for Sopespian_38:
(Start: 1 @27791 has 46 MA's), (5, 27764), (17, 27650), (32, 27494), (41, 27395),

Gene: SteamedHams_40 Start: 27710, Stop: 27168, Start Num: 1
Candidate Starts for SteamedHams_40:
(Start: 1 @27710 has 46 MA's), (5, 27683), (17, 27569), (20, 27515), (29, 27431), (30, 27425), (32, 27413), (46, 27284),

Gene: Survivors_37 Start: 27747, Stop: 27196, Start Num: 1
Candidate Starts for Survivors_37:
(Start: 1 @27747 has 46 MA's), (3, 27726), (8, 27702), (17, 27606), (19, 27567), (22, 27531), (31, 27459), (40, 27363),

Gene: SweatNTears_40 Start: 27687, Stop: 27136, Start Num: 1
Candidate Starts for SweatNTears_40:
(Start: 1 @27687 has 46 MA's), (5, 27660), (25, 27435), (35, 27351),

Gene: Tolls_40 Start: 27815, Stop: 27267, Start Num: 1
Candidate Starts for Tolls_40:
(Start: 1 @27815 has 46 MA's), (5, 27788), (17, 27674), (20, 27620), (29, 27536), (30, 27530), (32, 27518), (46, 27389),

Gene: Troje_41 Start: 28273, Stop: 27737, Start Num: 1
Candidate Starts for Troje_41:
(Start: 1 @28273 has 46 MA's), (3, 28252), (5, 28246), (25, 28021), (35, 27937),

Gene: Typhonomachy_38 Start: 27409, Stop: 26858, Start Num: 1
Candidate Starts for Typhonomachy_38:
(Start: 1 @27409 has 46 MA's), (5, 27382), (17, 27268), (32, 27112), (41, 27013),

Gene: Vine_43 Start: 30028, Stop: 29438, Start Num: 1
Candidate Starts for Vine_43:

(Start: 1 @30028 has 46 MA's), (17, 29890), (22, 29812), (24, 29791), (33, 29722), (45, 29614),

Gene: Yakult_41 Start: 28566, Stop: 28024, Start Num: 1
Candidate Starts for Yakult_41:
(Start: 1 @28566 has 46 MA's), (19, 28389), (21, 28371), (23, 28338), (32, 28275), (41, 28176), (43, 28164), (46, 28146),

Gene: Yarn_36 Start: 27575, Stop: 27027, Start Num: 1
Candidate Starts for Yarn_36:
(Start: 1 @27575 has 46 MA's), (5, 27548), (17, 27434), (20, 27380), (29, 27296), (30, 27290), (32, 27278), (46, 27149),

Gene: Yummy_41 Start: 27909, Stop: 27364, Start Num: 1
Candidate Starts for Yummy_41:
(Start: 1 @27909 has 46 MA's), (3, 27888), (5, 27882), (25, 27657), (27, 27636), (35, 27573),

Gene: Zareef_39 Start: 27841, Stop: 27290, Start Num: 1
Candidate Starts for Zareef_39:
(Start: 1 @27841 has 46 MA's), (3, 27820), (8, 27796), (17, 27700), (19, 27661), (22, 27625), (31, 27553), (40, 27457),