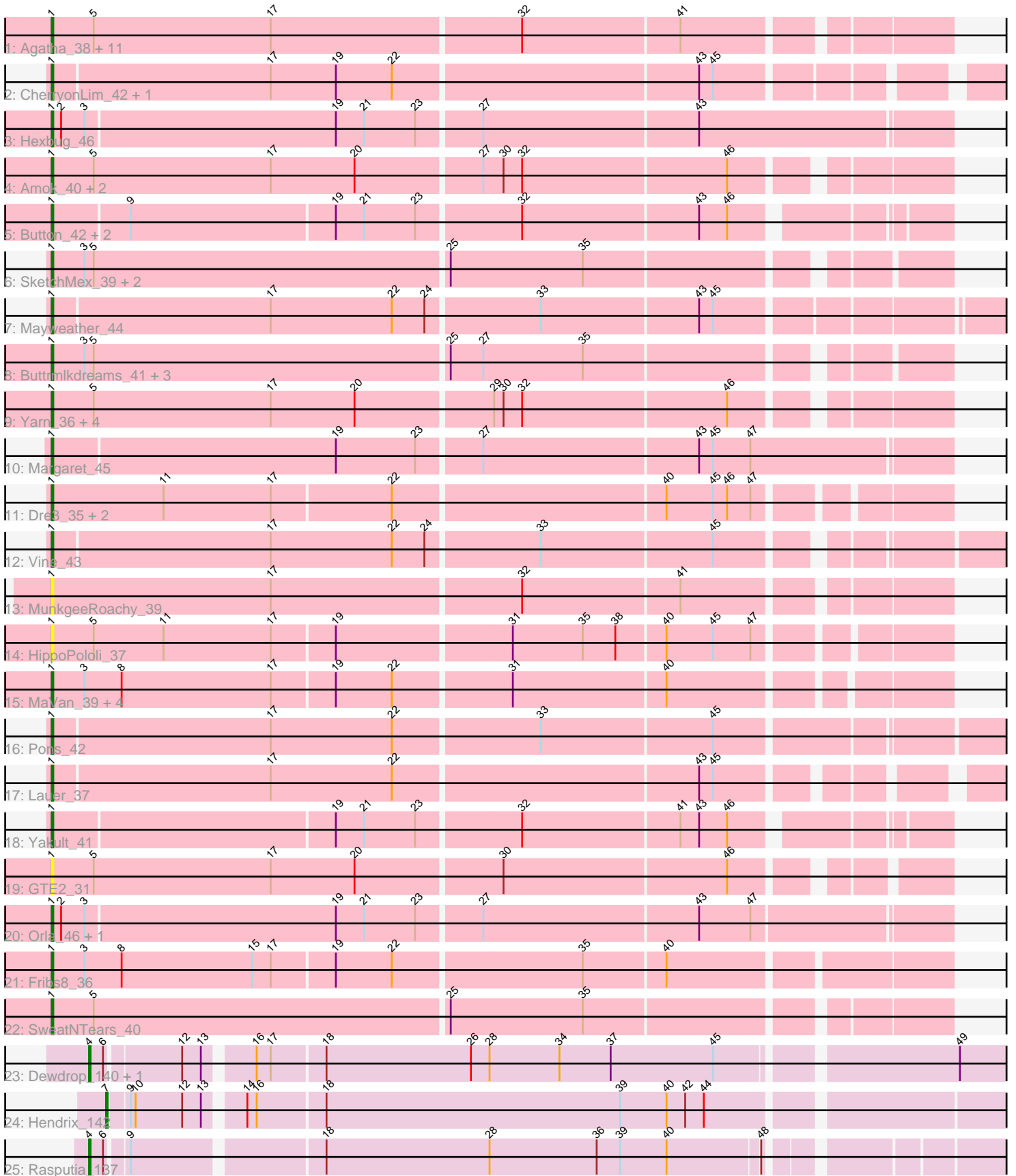


Pham 154741



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 154741 Report

This analysis was run 04/12/24 on database version 558.

Pham number 154741 has 58 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Agatha_38, Elliott_39, Nina_38, Cozz_37, Quasar_39, RedBaron_41, PsychoKiller_38, Sopespian_38, Typhonomachy_38, Axym_38, GoldHunter_40, Burnsey_38
- Track 2 : CherryonLim_42, SheckWes_43
- Track 3 : Hexbug_46
- Track 4 : Amok_40, AikoCarson_40, Emalyn_39
- Track 5 : Button_42, GiKK_44, Jamzy_44
- Track 6 : SketchMex_39, Troje_41, Biskit_41
- Track 7 : Mayweather_44
- Track 8 : Buttrmlkdreams_41, MScarn_42, Horseradish_41, Yummy_41
- Track 9 : Yarn_36, Tolls_40, BillDoor_39, AndPeggy_36, SteamedHams_40
- Track 10 : Margaret_45
- Track 11 : Dre3_35, Cleo_35, Gibbous_35
- Track 12 : Vine_43
- Track 13 : MunkgeeRoachy_39
- Track 14 : HippoPololi_37
- Track 15 : MaVan_39, Nibbles_36, Survivors_37, Zareef_39, Azira_37
- Track 16 : Pons_42
- Track 17 : Lauer_37
- Track 18 : Yakult_41
- Track 19 : GTE2_31
- Track 20 : Orla_46, Nodigi_46
- Track 21 : Fribs8_36
- Track 22 : SweatNTears_40
- Track 23 : Dewdrop_140, Leaf_140
- Track 24 : Hendrix_142
- 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 43 of the 47 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, CherryonLim_42, Cleo_35, Cozz_37, Dre3_35, Elliott_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_39, Margaret_45, Mayweather_44, MunkgeeRoachy_39, Nibbles_36, Nina_38, Nodigi_46, Orla_46, Pons_42, PsychoKiller_38, Quasar_39, 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 54 of 58 (93.1%) of genes in pham
- Manual Annotations of this start: 43 of 47
- 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), CherryonLim_42 (CT), Cleo_35 (CT), Cozz_37 (CT), Dre3_35 (CT), Elliott_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_39 (CT), Margaret_45 (CT), Mayweather_44 (CT), MunkgeeRoachy_39 (CT), Nibbles_36 (CT), Nina_38 (CT), Nodigi_46 (CT), Orla_46 (CT), Pons_42 (CT), PsychoKiller_38 (CT), Quasar_39 (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 58 (5.2%) of genes in pham
- Manual Annotations of this start: 3 of 47
- 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 58 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 47
- 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 MA's), (3, 28246), (5, 28240), (25, 28015), (27, 27994), (35, 27931),

Gene: CherryonLim_42 Start: 30519, Stop: 29932, Start Num: 1

Candidate Starts for CherryonLim_42:

(Start: 1 @30519 has 43 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 43 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 43 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 43 MA's), (11, 27038), (17, 26969), (22, 26894), (40, 26726), (45, 26696), (46, 26687), (47, 26672),

Gene: Elliott_39 Start: 27789, Stop: 27238, Start Num: 1

Candidate Starts for Elliott_39:

(Start: 1 @27789 has 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 MA's), (3, 27914), (5, 27908), (25, 27683), (27, 27662), (35, 27599),

Gene: MaVan_39 Start: 27851, Stop: 27303, Start Num: 1

Candidate Starts for MaVan_39:

(Start: 1 @27851 has 43 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 43 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 43 MA's), (17, 30252), (22, 30174), (24, 30153), (33, 30084), (43, 29985), (45, 29976),

Gene: MunkgeeRoachy_39 Start: 27252, Stop: 26701, Start Num: 1
Candidate Starts for MunkgeeRoachy_39:
(Start: 1 @27252 has 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 MA's), (5, 28311), (17, 28197), (32, 28041), (41, 27942),

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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 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 43 MA's), (3, 27820), (8, 27796), (17, 27700), (19, 27661), (22, 27625), (31, 27553), (40, 27457),