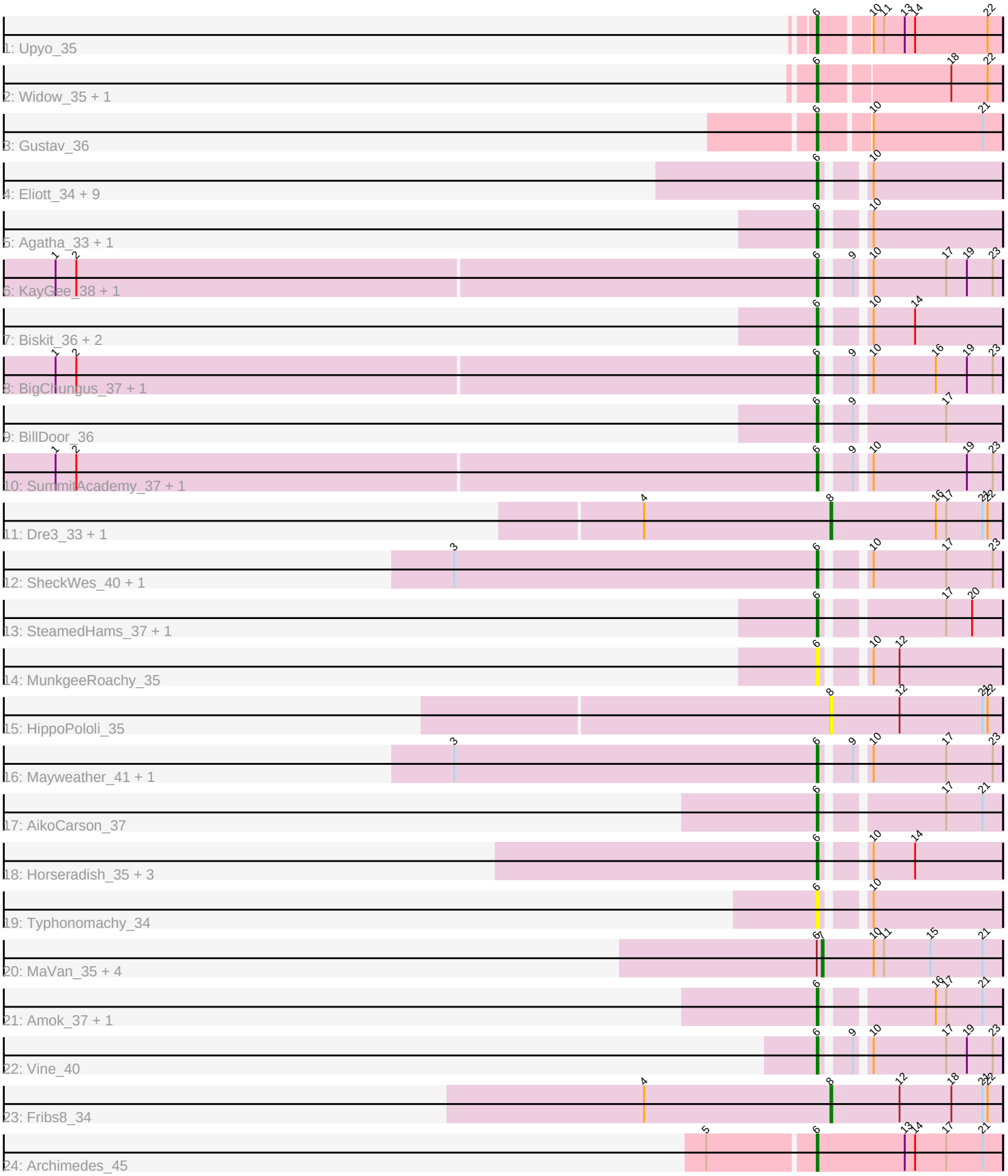
Pham 163660


1: Upyo_35
2: Widow_35 + 1
3: Gustav_36
4: Eliott_34 + 9
5: Agatha_33 + 1
6: KayGee_38 + 1
7: Biskit_36 + 2
8: BigChungus_37 + 1
9: BillDoor_36
10: SummitAcademy_37 + 1
11: Dre3_33 + 1
12: SheckWes_40 + 1
13: SteamedHams_37 + 1
14: MunkgeeRoachy_35
15: HippoPololi_35
16: Mayweather_41 + 1
17: AikoCarson_37
18: Horseradish_35 + 3
19: Typhonomachy_34
20: MaVan_35 + 4
21: Amok_37 + 1
22: Vine_40
23: Fribs8_34
24: Archimedes_45

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 163660 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163660 has 52 members, 12 are drafts.

Phages represented in each track:
• Track 1 : Upyo_35
• Track 2 : Widow_35, Puppers_34
• Track 3 : Gustav_36
• Track 4 : Eliott_34, SweatNTears_35, Quasar_34, Nina_34, PsychoKiller_33, Sopespian_33, Axym_33, GoldHunter_35, Burnsey_33, RedBaron_36
• Track 5 : Agatha_33, Cozz_33
• Track 6 : KayGee_38, Elinal_41
• Track 7 : Biskit_36, SketchMex_34, Troje_35
• Track 8 : BigChungus_37, Feastonyeet_37
• Track 9 : BillDoor_36
• Track 10 : SummitAcademy_37, PotPie_39
• Track 11 : Dre3_33, Gibbous_33
• Track 12 : SheckWes_40, MAnor_39
• Track 13 : SteamedHams_37, Tolls_37
• Track 14 : MunkgeeRoachy_35
• Track 15 : HippoPololi_35
• Track 16 : Mayweather_41, Pons_39
• Track 17 : AikoCarson_37
• Track 18 : Horseradish_35, Yummy_35, Buttrmlkdreams_35, MScarn_36
• Track 19 : Typhonomachy_34
• Track 20 : MaVan_35, Nibbles_34, Zareef_37, Survivors_35, Azira_35
• Track 21 : Amok_37, Emalyn_36
• Track 22 : Vine_40
• Track 23 : Fribs8_34
• Track 24 : Archimedes_45

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

The start number called the most often in the published annotations is 6, it was called in 33 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Agatha_33, AikoCarson_37, Amok_37, Archimedes_45, Axym_33, BigChungus_37, BillDoor_36, Biskit_36, Burnsey_33, Buttrmlkdreams_35, Cozz_33, Elinal_41,

Eliott_34, Emalyn_36, Feastonyeet_37, GoldHunter_35, Gustav_36, Horseradish_35, KayGee_38, MAnor_39, MScarn_36, Mayweather_41, MunkgeeRoachy_35, Nina_34, Pons_39, PotPie_39, PsychoKiller_33, Puppers_34, Quasar_34, RedBaron_36, SheckWes_40, SketchMex_34, Sopespian_33, SteamedHams_37, SummitAcademy_37, SweatNTears_35, Tolls_37, Troje_35, Typhonomachy_34, Upyo_35, Vine_40, Widow_35, Yummy_35,

Genes that have the "Most Annotated" start but do not call it:
• Azira_35, MaVan_35, Nibbles_34, Survivors_35, Zareef_37,

Genes that do not have the "Most Annotated" start:
• Dre3_33, Fribs8_34, Gibbous_33, HippoPololi_35,

Summary by start number:

Start 6:
• Found in 48 of 52 (92.3%) of genes in pham
• Manual Annotations of this start: 33 of 40
• Called 89.6% of time when present
• Phage (with cluster) where this start called: Agatha_33 (CT), AikoCarson_37 (CT), Amok_37 (CT), Archimedes_45 (DA), Axym_33 (CT), BigChungus_37 (CT), BillDoor_36 (CT), Biskit_36 (CT), Burnsey_33 (CT), Buttrmlkdreams_35 (CT), Cozz_33 (CT), Elinal_41 (CT), Eliott_34 (CT), Emalyn_36 (CT), Feastonyeet_37 (CT), GoldHunter_35 (CT), Gustav_36 (CD), Horseradish_35 (CT), KayGee_38 (CT), MAnor_39 (CT), MScarn_36 (CT), Mayweather_41 (CT), MunkgeeRoachy_35 (CT), Nina_34 (CT), Pons_39 (CT), PotPie_39 (CT), PsychoKiller_33 (CT), Puppers_34 (CD), Quasar_34 (CT), RedBaron_36 (CT), SheckWes_40 (CT), SketchMex_34 (CT), Sopespian_33 (CT), SteamedHams_37 (CT), SummitAcademy_37 (CT), SweatNTears_35 (CT), Tolls_37 (CT), Troje_35 (CT), Typhonomachy_34 (CT), Upyo_35 (CD), Vine_40 (CT), Widow_35 (CD), Yummy_35 (CT),

Start 7:
• Found in 5 of 52 (9.6%) of genes in pham
• Manual Annotations of this start: 4 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azira_35 (CT), MaVan_35 (CT), Nibbles_34 (CT), Survivors_35 (CT), Zareef_37 (CT),

Start 8:
• Found in 4 of 52 (7.7%) of genes in pham
• Manual Annotations of this start: 3 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dre3_33 (CT), Fribs8_34 (CT), Gibbous_33 (CT), HippoPololi_35 (CT),

Summary by clusters:

There are 3 clusters represented in this pham: CD, DA, CT,

Info for manual annotations of cluster CD:
•Start number 6 was manually annotated 4 times for cluster CD.

Info for manual annotations of cluster CT:

•Start number 6 was manually annotated 28 times for cluster CT.
•Start number 7 was manually annotated 4 times for cluster CT.
•Start number 8 was manually annotated 3 times for cluster CT.

Info for manual annotations of cluster DA:
•Start number 6 was manually annotated 1 time for cluster DA.

Gene Information:

Gene: Agatha_33 Start: 25902, Stop: 25997, Start Num: 6
Candidate Starts for Agatha_33:
(Start: 6 @25902 has 33 MA's), (10, 25923),

Gene: AikoCarson_37 Start: 27016, Stop: 27111, Start Num: 6
Candidate Starts for AikoCarson_37:
(Start: 6 @27016 has 33 MA's), (17, 27079), (21, 27100),

Gene: Amok_37 Start: 27040, Stop: 27135, Start Num: 6
Candidate Starts for Amok_37:
(Start: 6 @27040 has 33 MA's), (16, 27097), (17, 27103), (21, 27124),

Gene: Archimedes_45 Start: 38693, Stop: 38800, Start Num: 6
Candidate Starts for Archimedes_45:
(5, 38633), (Start: 6 @38693 has 33 MA's), (13, 38744), (14, 38750), (17, 38768), (21, 38789),

Gene: Axym_33 Start: 25881, Stop: 25976, Start Num: 6
Candidate Starts for Axym_33:
(Start: 6 @25881 has 33 MA's), (10, 25902),

Gene: Azira_35 Start: 26826, Stop: 26930, Start Num: 7
Candidate Starts for Azira_35:
(Start: 6 @26823 has 33 MA's), (Start: 7 @26826 has 4 MA's), (10, 26856), (11, 26862), (15, 26889), (21, 26919),

Gene: BigChungus_37 Start: 28139, Stop: 28234, Start Num: 6
Candidate Starts for BigChungus_37:
(1, 27701), (2, 27713), (Start: 6 @28139 has 33 MA's), (9, 28154), (10, 28160), (16, 28196), (19, 28214), (23, 28229),

Gene: BillDoor_36 Start: 26120, Stop: 26215, Start Num: 6
Candidate Starts for BillDoor_36:
(Start: 6 @26120 has 33 MA's), (9, 26135), (17, 26183),

Gene: Biskit_36 Start: 26209, Stop: 26304, Start Num: 6
Candidate Starts for Biskit_36:
(Start: 6 @26209 has 33 MA's), (10, 26230), (14, 26254),

Gene: Burnsey_33 Start: 25894, Stop: 25989, Start Num: 6
Candidate Starts for Burnsey_33:
(Start: 6 @25894 has 33 MA's), (10, 25915),

Gene: Buttrmlkdreams_35 Start: 26191, Stop: 26286, Start Num: 6
Candidate Starts for Buttrmlkdreams_35:
(Start: 6 @26191 has 33 MA's), (10, 26212), (14, 26236),

Gene: Cozz_33 Start: 25883, Stop: 25978, Start Num: 6
Candidate Starts for Cozz_33:
(Start: 6 @25883 has 33 MA's), (10, 25904),

Gene: Dre3_33 Start: 26127, Stop: 26225, Start Num: 8
Candidate Starts for Dre3_33:
(4, 26019), (Start: 8 @26127 has 3 MA's), (16, 26187), (17, 26193), (21, 26214), (22, 26217),

Gene: Elinal_41 Start: 28517, Stop: 28612, Start Num: 6
Candidate Starts for Elinal_41:
(1, 28079), (2, 28091), (Start: 6 @28517 has 33 MA's), (9, 28532), (10, 28538), (17, 28580), (19, 28592), (23, 28607),

Gene: Eliott_34 Start: 25902, Stop: 25997, Start Num: 6
Candidate Starts for Eliott_34:
(Start: 6 @25902 has 33 MA's), (10, 25923),

Gene: Emalyn_36 Start: 26211, Stop: 26306, Start Num: 6
Candidate Starts for Emalyn_36:
(Start: 6 @26211 has 33 MA's), (16, 26268), (17, 26274), (21, 26295),

Gene: Feastonyeet_37 Start: 28139, Stop: 28234, Start Num: 6
Candidate Starts for Feastonyeet_37:
(1, 27701), (2, 27713), (Start: 6 @28139 has 33 MA's), (9, 28154), (10, 28160), (16, 28196), (19, 28214), (23, 28229),

Gene: Fribs8_34 Start: 26556, Stop: 26654, Start Num: 8
Candidate Starts for Fribs8_34:
(4, 26448), (Start: 8 @26556 has 3 MA's), (12, 26595), (18, 26625), (21, 26643), (22, 26646),

Gene: Gibbous_33 Start: 26127, Stop: 26225, Start Num: 8
Candidate Starts for Gibbous_33:
(4, 26019), (Start: 8 @26127 has 3 MA's), (16, 26187), (17, 26193), (21, 26214), (22, 26217),

Gene: GoldHunter_35 Start: 25903, Stop: 25998, Start Num: 6
Candidate Starts for GoldHunter_35:
(Start: 6 @25903 has 33 MA's), (10, 25924),

Gene: Gustav_36 Start: 28099, Stop: 27998, Start Num: 6
Candidate Starts for Gustav_36:
(Start: 6 @28099 has 33 MA's), (10, 28072), (21, 28009),

Gene: HippoPololi_35 Start: 26580, Stop: 26678, Start Num: 8
Candidate Starts for HippoPololi_35:
(Start: 8 @26580 has 3 MA's), (12, 26619), (21, 26667), (22, 26670),

Gene: Horseradish_35 Start: 25719, Stop: 25814, Start Num: 6
Candidate Starts for Horseradish_35:
(Start: 6 @25719 has 33 MA's), (10, 25740), (14, 25764),

Gene: KayGee_38 Start: 28517, Stop: 28612, Start Num: 6
Candidate Starts for KayGee_38:
(1, 28079), (2, 28091), (Start: 6 @28517 has 33 MA's), (9, 28532), (10, 28538), (17, 28580), (19, 28592), (23, 28607),

Gene: MAnor_39 Start: 28918, Stop: 29013, Start Num: 6
Candidate Starts for MAnor_39:
(3, 28708), (Start: 6 @28918 has 33 MA's), (10, 28939), (17, 28981), (23, 29008),

Gene: MScarn_36 Start: 25859, Stop: 25954, Start Num: 6
Candidate Starts for MScarn_36:
(Start: 6 @25859 has 33 MA's), (10, 25880), (14, 25904),

Gene: MaVan_35 Start: 26859, Stop: 26963, Start Num: 7
Candidate Starts for MaVan_35:
(Start: 6 @26856 has 33 MA's), (Start: 7 @26859 has 4 MA's), (10, 26889), (11, 26895), (15, 26922), (21, 26952),

Gene: Mayweather_41 Start: 29142, Stop: 29237, Start Num: 6
Candidate Starts for Mayweather_41:
(3, 28932), (Start: 6 @29142 has 33 MA's), (9, 29157), (10, 29163), (17, 29205), (23, 29232),

Gene: MunkgeeRoachy_35 Start: 25757, Stop: 25852, Start Num: 6
Candidate Starts for MunkgeeRoachy_35:
(Start: 6 @25757 has 33 MA's), (10, 25778), (12, 25793),

Gene: Nibbles_34 Start: 26543, Stop: 26647, Start Num: 7
Candidate Starts for Nibbles_34:
(Start: 6 @26540 has 33 MA's), (Start: 7 @26543 has 4 MA's), (10, 26573), (11, 26579), (15, 26606), (21, 26636),

Gene: Nina_34 Start: 26419, Stop: 26514, Start Num: 6
Candidate Starts for Nina_34:
(Start: 6 @26419 has 33 MA's), (10, 26440),

Gene: Pons_39 Start: 28493, Stop: 28588, Start Num: 6
Candidate Starts for Pons_39:
(3, 28283), (Start: 6 @28493 has 33 MA's), (9, 28508), (10, 28514), (17, 28556), (23, 28583),

Gene: PotPie_39 Start: 29430, Stop: 29525, Start Num: 6
Candidate Starts for PotPie_39:
(1, 28992), (2, 29004), (Start: 6 @29430 has 33 MA's), (9, 29445), (10, 29451), (19, 29505), (23, 29520),

Gene: PsychoKiller_33 Start: 25903, Stop: 25998, Start Num: 6
Candidate Starts for PsychoKiller_33:
(Start: 6 @25903 has 33 MA's), (10, 25924),

Gene: Puppers_34 Start: 26854, Stop: 26753, Start Num: 6
Candidate Starts for Puppers_34:
(Start: 6 @26854 has 33 MA's), (18, 26782), (22, 26761),

Gene: Quasar_34 Start: 26505, Stop: 26600, Start Num: 6
Candidate Starts for Quasar_34:
(Start: 6 @26505 has 33 MA's), (10, 26526),

Gene: RedBaron_36 Start: 26138, Stop: 26233, Start Num: 6
Candidate Starts for RedBaron_36:
(Start: 6 @26138 has 33 MA's), (10, 26159),

Gene: SheckWes_40 Start: 28014, Stop: 28109, Start Num: 6
Candidate Starts for SheckWes_40:
(3, 27804), (Start: 6 @28014 has 33 MA's), (10, 28035), (17, 28077), (23, 28104),

Gene: SketchMex_34 Start: 26209, Stop: 26304, Start Num: 6
Candidate Starts for SketchMex_34:
(Start: 6 @26209 has 33 MA's), (10, 26230), (14, 26254),

Gene: Sopespian_33 Start: 25904, Stop: 25999, Start Num: 6
Candidate Starts for Sopespian_33:
(Start: 6 @25904 has 33 MA's), (10, 25925),

Gene: SteamedHams_37 Start: 26589, Stop: 26684, Start Num: 6
Candidate Starts for SteamedHams_37:
(Start: 6 @26589 has 33 MA's), (17, 26652), (20, 26667),

Gene: SummitAcademy_37 Start: 28059, Stop: 28154, Start Num: 6
Candidate Starts for SummitAcademy_37:
(1, 27621), (2, 27633), (Start: 6 @28059 has 33 MA's), (9, 28074), (10, 28080), (19, 28134), (23, 28149),

Gene: Survivors_35 Start: 26752, Stop: 26856, Start Num: 7
Candidate Starts for Survivors_35:
(Start: 6 @26749 has 33 MA's), (Start: 7 @26752 has 4 MA's), (10, 26782), (11, 26788), (15, 26815), (21, 26845),

Gene: SweatNTears_35 Start: 25800, Stop: 25895, Start Num: 6
Candidate Starts for SweatNTears_35:
(Start: 6 @25800 has 33 MA's), (10, 25821),

Gene: Tolls_37 Start: 26688, Stop: 26783, Start Num: 6
Candidate Starts for Tolls_37:
(Start: 6 @26688 has 33 MA's), (17, 26751), (20, 26766),

Gene: Troje_35 Start: 26216, Stop: 26311, Start Num: 6
Candidate Starts for Troje_35:
(Start: 6 @26216 has 33 MA's), (10, 26237), (14, 26261),

Gene: Typhonomachy_34 Start: 25914, Stop: 26009, Start Num: 6
Candidate Starts for Typhonomachy_34:
(Start: 6 @25914 has 33 MA's), (10, 25935),

Gene: Upyo_35 Start: 28180, Stop: 28079, Start Num: 6
Candidate Starts for Upyo_35:
(Start: 6 @28180 has 33 MA's), (10, 28153), (11, 28147), (13, 28135), (14, 28129), (22, 28087),

Gene: Vine_40 Start: 28791, Stop: 28886, Start Num: 6
Candidate Starts for Vine_40:
(Start: 6 @28791 has 33 MA's), (9, 28806), (10, 28812), (17, 28854), (19, 28866), (23, 28881),

Gene: Widow_35 Start: 27935, Stop: 27834, Start Num: 6
Candidate Starts for Widow_35:
(Start: 6 @27935 has 33 MA's), (18, 27863), (22, 27842),

Gene: Yummy_35 Start: 25833, Stop: 25928, Start Num: 6
Candidate Starts for Yummy_35:
(Start: 6 @25833 has 33 MA's), (10, 25854), (14, 25878),

Gene: Zareef_37 Start: 26846, Stop: 26950, Start Num: 7
Candidate Starts for Zareef_37:
(Start: 6 @26843 has 33 MA's), (Start: 7 @26846 has 4 MA's), (10, 26876), (11, 26882), (15, 26909), (21, 26939),