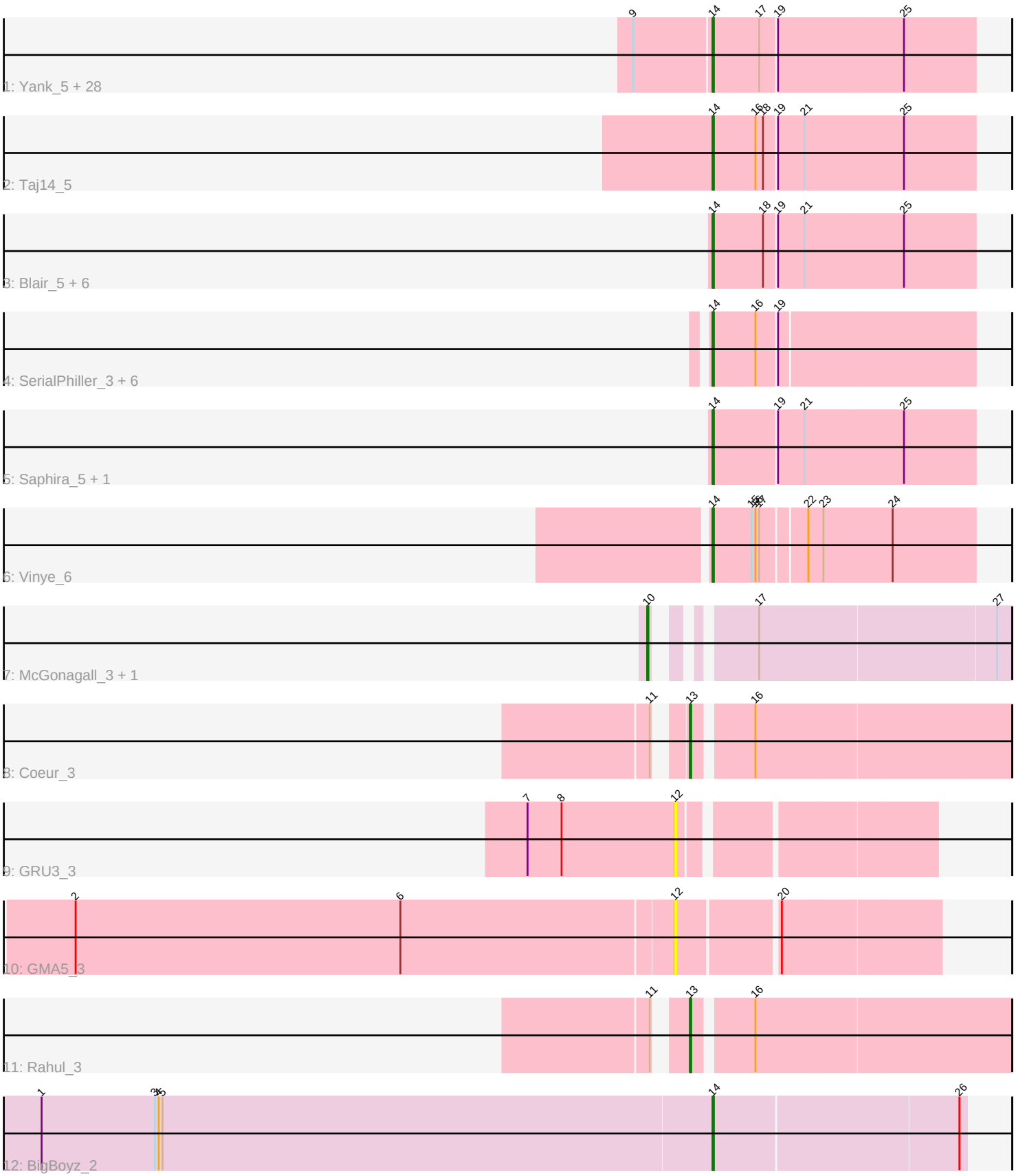
# Pham 347685


9
14
17
19
25
1: Yank_5 + 28
14
16
18
19
21
25
2: Taj14_5
14
18
19
21
25
3: Blair_5 + 6
14
16
19
4: SerialPhiller_3 + 6
14
19
21
25
5: Saphira_5 + 1
14
22
23
24
6: Vinye_6
10
17
27
7: McGonagall_3 + 1
11
13
16
8: Coeur_3
7
8
12
9: GRU3_3
2
6
12
20
10: GMA5_3
11
13
16
11: Rahul_3
1
14
26
12: BigBoyz_2

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 347685 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347685 has 54 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Yank_5, Guntur_5, Inspire2_5, LouisXIV_5, TinoCrisci_5, Sandman_5, Moloch_5, Muttlie_5, Jessica_6, CGermain_5, TymAbreu_5, Courtney3_5, Hunnie_5, Maggie_5, Ronnie_5, Toulouse_4, Chestnut_5, Sourignavong_6, Seume_5, Arby_5, Stratus_5, Copper_5, Link_5, Azathoth_5, Massimo_5, Dewayne_5, Prospero_5, Decurro_5, Mariposa_5
• Track 2 : Taj14_5
• Track 3 : Blair_5, Laila_6, Swenson_5, ElectricPheel_6, Lore_5, Elkhorn_5, StewieGriff_5
• Track 4 : SerialPhiller_3, Kels_3, Arielagos_3, FirePit_3, Eyoseyas_3, Ximeno_3, StrawberryLem_3
• Track 5 : Saphira_5, KylieMac_6
• Track 6 : Vinye_6
• Track 7 : McGonagall_3, Jeanie_3
• Track 8 : Coeur_3
• Track 9 : GRU3_3
• Track 10 : GMA5_3
• Track 11 : Rahul_3
• Track 12 : BigBoyz_2

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

The start number called the most often in the published annotations is 14, it was called in 47 of the 51 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arby_5, Arielagos_3, Azathoth_5, BigBoyz_2, Blair_5, CGermain_5, Chestnut_5, Copper_5, Courtney3_5, Decurro_5, Dewayne_5, ElectricPheel_6, Elkhorn_5, Eyoseyas_3, FirePit_3, Guntur_5, Hunnie_5, Inspire2_5, Jessica_6, Kels_3, KylieMac_6, Laila_6, Link_5, Lore_5, LouisXIV_5, Maggie_5, Mariposa_5, Massimo_5, Moloch_5, Muttlie_5, Prospero_5, Ronnie_5, Sandman_5, Saphira_5, SerialPhiller_3, Seume_5, Sourignavong_6, StewieGriff_5, Stratus_5, StrawberryLem_3, Swenson_5, Taj14_5, TinoCrisci_5, Toulouse_4, TymAbreu_5, Vinye_6, Ximeno_3, Yank_5,

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

Genes that do not have the "Most Annotated" start:
• Coeur_3, GMA5_3, GRU3_3, Jeanie_3, McGonagall_3, Rahul_3,

**Summary by start number:**

Start 10:
• Found in 2 of 54 ( 3.7% ) of genes in pham
• Manual Annotations of this start: 2 of 51
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jeanie_3 (CW1), McGonagall_3 (CW1),

Start 12:
• Found in 2 of 54 ( 3.7% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA5_3 (CW2), GRU3_3 (CW2),

Start 13:
• Found in 2 of 54 ( 3.7% ) of genes in pham
• Manual Annotations of this start: 2 of 51
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Coeur_3 (CW2), Rahul_3 (CW2),

Start 14:
• Found in 48 of 54 ( 88.9% ) of genes in pham
• Manual Annotations of this start: 47 of 51
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arby_5 (AN), Arielagos_3 (AN), Azathoth_5 (AN), BigBoyz_2 (GH), Blair_5 (AN), CGermain_5 (AN), Chestnut_5 (AN), Copper_5 (AN), Courtney3_5 (AN), Decurro_5 (AN), Dewayne_5 (AN), ElectricPheel_6 (AN), Elkhorn_5 (AN), Eyoseyas_3 (AN), FirePit_3 (AN), Guntur_5 (AN), Hunnie_5 (AN), Inspire2_5 (AN), Jessica_6 (AN), Kels_3 (AN), KylieMac_6 (AN), Laila_6 (AN), Link_5 (AN), Lore_5 (AN), LouisXIV_5 (AN), Maggie_5 (AN), Mariposa_5 (AN), Massimo_5 (AN), Moloch_5 (AN), Muttlie_5 (AN), Prospero_5 (AN), Ronnie_5 (AN), Sandman_5 (AN), Saphira_5 (AN), SerialPhiller_3 (AN), Seume_5 (AN), Sourignavong_6 (AN), StewieGriff_5 (AN), Stratus_5 (AN), StrawberryLem_3 (AN), Swenson_5 (AN), Taj14_5 (AN), TinoCrisci_5 (AN), Toulouse_4 (AN), TymAbreu_5 (AN), Vinye_6 (AN), Ximeno_3 (AN), Yank_5 (AN),

**Summary by clusters:**

There are 4 clusters represented in this pham: CW1, GH, CW2, AN,

Info for manual annotations of cluster AN:
•Start number 14 was manually annotated 46 times for cluster AN.

Info for manual annotations of cluster CW1:
•Start number 10 was manually annotated 2 times for cluster CW1.

Info for manual annotations of cluster CW2:

•Start number 13 was manually annotated 2 times for cluster CW2.

Info for manual annotations of cluster GH:
•Start number 14 was manually annotated 1 time for cluster GH.

***Gene Information:***

Gene: Arby_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Arby_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Arielagos_3 Start: 1923, Stop: 2123, Start Num: 14
Candidate Starts for Arielagos_3:
(Start: 14 @1923 has 47 MA's), (16, 1956), (19, 1971),

Gene: Azathoth_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Azathoth_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: BigBoyz_2 Start: 1665, Stop: 1859, Start Num: 14
Candidate Starts for BigBoyz_2:
(1, 1134), (3, 1224), (4, 1227), (5, 1230), (Start: 14 @1665 has 47 MA's), (26, 1854),

Gene: Blair_5 Start: 2294, Stop: 2497, Start Num: 14
Candidate Starts for Blair_5:
(Start: 14 @2294 has 47 MA's), (18, 2333), (19, 2342), (21, 2363), (25, 2441),

Gene: CGermain_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for CGermain_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Chestnut_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Chestnut_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Coeur_3 Start: 1920, Stop: 2159, Start Num: 13
Candidate Starts for Coeur_3:
(11, 1905), (Start: 13 @1920 has 2 MA's), (16, 1962),

Gene: Copper_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Copper_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Courtney3_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Courtney3_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Decurro_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Decurro_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Dewayne_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Dewayne_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: ElectricPheel_6 Start: 2368, Stop: 2571, Start Num: 14
Candidate Starts for ElectricPheel_6:
(Start: 14 @2368 has 47 MA's), (18, 2407), (19, 2416), (21, 2437), (25, 2515),

Gene: Elkhorn_5 Start: 2294, Stop: 2497, Start Num: 14
Candidate Starts for Elkhorn_5:
(Start: 14 @2294 has 47 MA's), (18, 2333), (19, 2342), (21, 2363), (25, 2441),

Gene: Eyoseyas_3 Start: 1923, Stop: 2123, Start Num: 14
Candidate Starts for Eyoseyas_3:
(Start: 14 @1923 has 47 MA's), (16, 1956), (19, 1971),

Gene: FirePit_3 Start: 1923, Stop: 2123, Start Num: 14
Candidate Starts for FirePit_3:
(Start: 14 @1923 has 47 MA's), (16, 1956), (19, 1971),

Gene: GMA5_3 Start: 1869, Stop: 2066, Start Num: 12
Candidate Starts for GMA5_3:
(2, 1398), (6, 1656), (12, 1869), (20, 1944),

Gene: GRU3_3 Start: 1924, Stop: 2109, Start Num: 12
Candidate Starts for GRU3_3:
(7, 1807), (8, 1834), (12, 1924),

Gene: Guntur_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Guntur_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Hunnie_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Hunnie_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Inspire2_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Inspire2_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Jeanie_3 Start: 1912, Stop: 2160, Start Num: 10
Candidate Starts for Jeanie_3:
(Start: 10 @1912 has 2 MA's), (17, 1966), (27, 2149),

Gene: Jessica_6 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Jessica_6:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Kels_3 Start: 1848, Stop: 2048, Start Num: 14
Candidate Starts for Kels_3:
(Start: 14 @1848 has 47 MA's), (16, 1881), (19, 1896),

Gene: KylieMac_6 Start: 2281, Stop: 2484, Start Num: 14

Candidate Starts for KylieMac_6:
(Start: 14 @2281 has 47 MA's), (19, 2329), (21, 2350), (25, 2428),

Gene: Laila_6 Start: 2294, Stop: 2497, Start Num: 14
Candidate Starts for Laila_6:
(Start: 14 @2294 has 47 MA's), (18, 2333), (19, 2342), (21, 2363), (25, 2441),

Gene: Link_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Link_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Lore_5 Start: 2294, Stop: 2497, Start Num: 14
Candidate Starts for Lore_5:
(Start: 14 @2294 has 47 MA's), (18, 2333), (19, 2342), (21, 2363), (25, 2441),

Gene: LouisXIV_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for LouisXIV_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Maggie_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Maggie_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Mariposa_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Mariposa_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Massimo_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Massimo_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: McGonagall_3 Start: 1912, Stop: 2160, Start Num: 10
Candidate Starts for McGonagall_3:
(Start: 10 @1912 has 2 MA's), (17, 1966), (27, 2149),

Gene: Moloch_5 Start: 2366, Stop: 2569, Start Num: 14
Candidate Starts for Moloch_5:
(9, 2306), (Start: 14 @2366 has 47 MA's), (17, 2402), (19, 2414), (25, 2513),

Gene: Muttlie_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Muttlie_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Prospero_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Prospero_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Rahul_3 Start: 1917, Stop: 2156, Start Num: 13
Candidate Starts for Rahul_3:
(11, 1905), (Start: 13 @1917 has 2 MA's), (16, 1959),

Gene: Ronnie_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Ronnie_5:

(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Sandman_5 Start: 2366, Stop: 2569, Start Num: 14
Candidate Starts for Sandman_5:
(9, 2306), (Start: 14 @2366 has 47 MA's), (17, 2402), (19, 2414), (25, 2513),

Gene: Saphira_5 Start: 2294, Stop: 2497, Start Num: 14
Candidate Starts for Saphira_5:
(Start: 14 @2294 has 47 MA's), (19, 2342), (21, 2363), (25, 2441),

Gene: SerialPhiller_3 Start: 1923, Stop: 2123, Start Num: 14
Candidate Starts for SerialPhiller_3:
(Start: 14 @1923 has 47 MA's), (16, 1956), (19, 1971),

Gene: Seume_5 Start: 2088, Stop: 2291, Start Num: 14
Candidate Starts for Seume_5:
(9, 2028), (Start: 14 @2088 has 47 MA's), (17, 2124), (19, 2136), (25, 2235),

Gene: Sourignavong_6 Start: 2393, Stop: 2596, Start Num: 14
Candidate Starts for Sourignavong_6:
(9, 2333), (Start: 14 @2393 has 47 MA's), (17, 2429), (19, 2441), (25, 2540),

Gene: StewieGriff_5 Start: 2294, Stop: 2497, Start Num: 14
Candidate Starts for StewieGriff_5:
(Start: 14 @2294 has 47 MA's), (18, 2333), (19, 2342), (21, 2363), (25, 2441),

Gene: Stratus_5 Start: 2366, Stop: 2569, Start Num: 14
Candidate Starts for Stratus_5:
(9, 2306), (Start: 14 @2366 has 47 MA's), (17, 2402), (19, 2414), (25, 2513),

Gene: StrawberryLem_3 Start: 1848, Stop: 2048, Start Num: 14
Candidate Starts for StrawberryLem_3:
(Start: 14 @1848 has 47 MA's), (16, 1881), (19, 1896),

Gene: Swenson_5 Start: 2417, Stop: 2620, Start Num: 14
Candidate Starts for Swenson_5:
(Start: 14 @2417 has 47 MA's), (18, 2456), (19, 2465), (21, 2486), (25, 2564),

Gene: Taj14_5 Start: 2273, Stop: 2476, Start Num: 14
Candidate Starts for Taj14_5:
(Start: 14 @2273 has 47 MA's), (16, 2306), (18, 2312), (19, 2321), (21, 2342), (25, 2420),

Gene: TinoCrisci_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for TinoCrisci_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Toulouse_4 Start: 2088, Stop: 2291, Start Num: 14
Candidate Starts for Toulouse_4:
(9, 2028), (Start: 14 @2088 has 47 MA's), (17, 2124), (19, 2136), (25, 2235),

Gene: TymAbreu_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for TymAbreu_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),

Gene: Vinye_6 Start: 2289, Stop: 2489, Start Num: 14
Candidate Starts for Vinye_6:
(Start: 14 @2289 has 47 MA's), (15, 2319), (16, 2322), (17, 2325), (22, 2358), (23, 2370), (24, 2424),

Gene: Ximeno_3 Start: 1923, Stop: 2123, Start Num: 14
Candidate Starts for Ximeno_3:
(Start: 14 @1923 has 47 MA's), (16, 1956), (19, 1971),

Gene: Yank_5 Start: 2292, Stop: 2495, Start Num: 14
Candidate Starts for Yank_5:
(9, 2232), (Start: 14 @2292 has 47 MA's), (17, 2328), (19, 2340), (25, 2439),