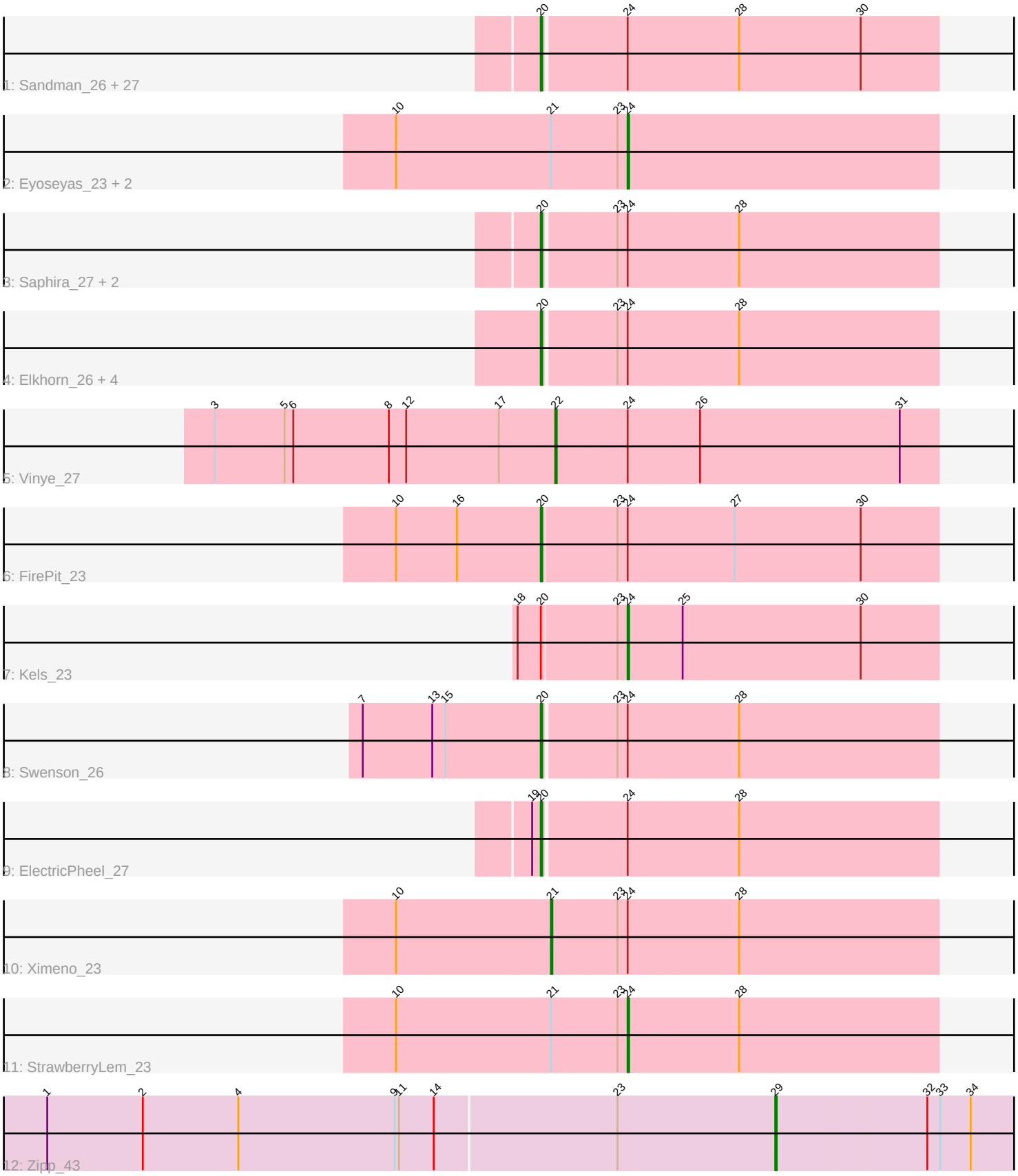
Pham 345847


20
24
28
30
1: Sandman_26 + 27
10
21
23
24
2: Eyoseyas_23 + 2
20
23
24
28
3: Saphira_27 + 2
20
23
24
28
4: Elkhorn_26 + 4
3
5
6
8
12
17
22
24
26
31
5: Vinye_27
10
16
20
23
24
27
30
6: FirePit_23
18
20
23
24
25
30
7: Kels_23
7
13
15
20
23
24
28
8: Swenson_26
19
20
24
28
9: ElectricPheel_27
10
21
23
24
28
10: Ximeno_23
10
21
23
24
28
11: StrawberryLem_23
1
2
4
9
11
14
23
29
32
33
34
12: Zipp_43

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 345847 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 345847 has 47 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Sandman_26, Dewayne_26, CGermain_26, Ronnie_26, LouisXIV_26, Inspire2_26, Hunnie_26, Stratus_26, Muttlie_26, Azathoth_26, Courtney3_26, TinoCrisci_26, Arby_26, Moloch_26, TymAbreu_26, Massimo_26, Decurro_26, Guntur_26, Maggie_26, Mariposa_26, Prospero_26, Copper_26, Chestnut_27, Yank_26, Sourignavong_27, Seume_26, Link_26, Toulouse_25
• Track 2 : Eyoseyas_23, SerialPhiller_23, Arielagos_23
• Track 3 : Saphira_27, Taj14_26, KylieMac_27
• Track 4 : Elkhorn_26, StewieGriff_26, Blair_26, Lore_26, Laila_28
• Track 5 : Vinye_27
• Track 6 : FirePit_23
• Track 7 : Kels_23
• Track 8 : Swenson_26
• Track 9 : ElectricPheel_27
• Track 10 : Ximeno_23
• Track 11 : StrawberryLem_23
• Track 12 : Zipp_43

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 39 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arby_26, Azathoth_26, Blair_26, CGermain_26, Chestnut_27, Copper_26, Courtney3_26, Decurro_26, Dewayne_26, ElectricPheel_27, Elkhorn_26, FirePit_23, Guntur_26, Hunnie_26, Inspire2_26, KylieMac_27, Laila_28, Link_26, Lore_26, LouisXIV_26, Maggie_26, Mariposa_26, Massimo_26, Moloch_26, Muttlie_26, Prospero_26, Ronnie_26, Sandman_26, Saphira_27, Seume_26, Sourignavong_27, StewieGriff_26, Stratus_26, Swenson_26, Taj14_26, TinoCrisci_26, Toulouse_25, TymAbreu_26, Yank_26,

Genes that have the "Most Annotated" start but do not call it:
• Kels_23,

Genes that do not have the "Most Annotated" start:
• Arielagos_23, Eyoseyas_23, SerialPhiller_23, StrawberryLem_23, Vinye_27, Ximeno_23, Zipp_43,

Summary by start number:

Start 20:
• Found in 40 of 47 (85.1%) of genes in pham
• Manual Annotations of this start: 39 of 46
• Called 97.5% of time when present
• Phage (with cluster) where this start called: Arby_26 (AN), Azathoth_26 (AN), Blair_26 (AN), CGermain_26 (AN), Chestnut_27 (AN), Copper_26 (AN), Courtney3_26 (AN), Decurro_26 (AN), Dewayne_26 (AN), ElectricPheel_27 (AN), Elkhorn_26 (AN), FirePit_23 (AN), Guntur_26 (AN), Hunnie_26 (AN), Inspire2_26 (AN), KylieMac_27 (AN), Laila_28 (AN), Link_26 (AN), Lore_26 (AN), LouisXIV_26 (AN), Maggie_26 (AN), Mariposa_26 (AN), Massimo_26 (AN), Moloch_26 (AN), Muttlie_26 (AN), Prospero_26 (AN), Ronnie_26 (AN), Sandman_26 (AN), Saphira_27 (AN), Seume_26 (AN), Sourignavong_27 (AN), StewieGriff_26 (AN), Stratus_26 (AN), Swenson_26 (AN), Taj14_26 (AN), TinoCrisci_26 (AN), Toulouse_25 (AN), TymAbreu_26 (AN), Yank_26 (AN),

Start 21:
• Found in 5 of 47 (10.6%) of genes in pham
• Manual Annotations of this start: 1 of 46
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Ximeno_23 (AN),

Start 22:
• Found in 1 of 47 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 46
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Vinye_27 (AN),

Start 24:
• Found in 46 of 47 (97.9%) of genes in pham
• Manual Annotations of this start: 4 of 46
• Called 10.9% of time when present
• Phage (with cluster) where this start called: Arielagos_23 (AN), Eyoseyas_23 (AN), Kels_23 (AN), SerialPhiller_23 (AN), StrawberryLem_23 (AN),

Start 29:
• Found in 1 of 47 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 46
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Zipp_43 (DE4),

Summary by clusters:

There are 2 clusters represented in this pham: DE4, AN,

Info for manual annotations of cluster AN:
•Start number 20 was manually annotated 39 times for cluster AN.
•Start number 21 was manually annotated 1 time for cluster AN.
•Start number 22 was manually annotated 1 time for cluster AN.
•Start number 24 was manually annotated 4 times for cluster AN.

Info for manual annotations of cluster DE4:
•Start number 29 was manually annotated 1 time for cluster DE4.

Gene Information:

Gene: Arby_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Arby_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Arielagos_23 Start: 15059, Stop: 15271, Start Num: 24
Candidate Starts for Arielagos_23:
(10, 14903), (Start: 21 @15008 has 1 MA's), (23, 15053), (Start: 24 @15059 has 4 MA's),

Gene: Azathoth_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Azathoth_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Blair_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Blair_26:
(Start: 20 @15263 has 39 MA's), (23, 15311), (Start: 24 @15317 has 4 MA's), (28, 15392),

Gene: CGermain_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for CGermain_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Chestnut_27 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Chestnut_27:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Copper_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Copper_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Courtney3_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Courtney3_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Decurro_26 Start: 15231, Stop: 15497, Start Num: 20
Candidate Starts for Decurro_26:
(Start: 20 @15231 has 39 MA's), (Start: 24 @15285 has 4 MA's), (28, 15360), (30, 15444),

Gene: Dewayne_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Dewayne_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: ElectricPheel_27 Start: 15304, Stop: 15570, Start Num: 20
Candidate Starts for ElectricPheel_27:
(19, 15298), (Start: 20 @15304 has 39 MA's), (Start: 24 @15358 has 4 MA's), (28, 15433),

Gene: Elkhorn_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Elkhorn_26:
(Start: 20 @15263 has 39 MA's), (23, 15311), (Start: 24 @15317 has 4 MA's), (28, 15392),

Gene: Eyoseyas_23 Start: 15059, Stop: 15271, Start Num: 24
Candidate Starts for Eyoseyas_23:
(10, 14903), (Start: 21 @15008 has 1 MA's), (23, 15053), (Start: 24 @15059 has 4 MA's),

Gene: FirePit_23 Start: 15015, Stop: 15281, Start Num: 20
Candidate Starts for FirePit_23:
(10, 14916), (16, 14958), (Start: 20 @15015 has 39 MA's), (23, 15063), (Start: 24 @15069 has 4 MA's), (27, 15141), (30, 15228),

Gene: Guntur_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Guntur_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Hunnie_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Hunnie_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Inspire2_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Inspire2_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Kels_23 Start: 14592, Stop: 14804, Start Num: 24
Candidate Starts for Kels_23:
(18, 14523), (Start: 20 @14538 has 39 MA's), (23, 14586), (Start: 24 @14592 has 4 MA's), (25, 14628), (30, 14751),

Gene: KylieMac_27 Start: 15247, Stop: 15513, Start Num: 20
Candidate Starts for KylieMac_27:
(Start: 20 @15247 has 39 MA's), (23, 15295), (Start: 24 @15301 has 4 MA's), (28, 15376),

Gene: Laila_28 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Laila_28:
(Start: 20 @15263 has 39 MA's), (23, 15311), (Start: 24 @15317 has 4 MA's), (28, 15392),

Gene: Link_26 Start: 15228, Stop: 15494, Start Num: 20
Candidate Starts for Link_26:
(Start: 20 @15228 has 39 MA's), (Start: 24 @15282 has 4 MA's), (28, 15357), (30, 15441),

Gene: Lore_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Lore_26:
(Start: 20 @15263 has 39 MA's), (23, 15311), (Start: 24 @15317 has 4 MA's), (28, 15392),

Gene: LouisXIV_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for LouisXIV_26:

(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Maggie_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Maggie_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Mariposa_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Mariposa_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Massimo_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Massimo_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Moloch_26 Start: 15337, Stop: 15603, Start Num: 20
Candidate Starts for Moloch_26:
(Start: 20 @15337 has 39 MA's), (Start: 24 @15391 has 4 MA's), (28, 15466), (30, 15550),

Gene: Muttlie_26 Start: 15231, Stop: 15497, Start Num: 20
Candidate Starts for Muttlie_26:
(Start: 20 @15231 has 39 MA's), (Start: 24 @15285 has 4 MA's), (28, 15360), (30, 15444),

Gene: Prospero_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Prospero_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Ronnie_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for Ronnie_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Sandman_26 Start: 15337, Stop: 15603, Start Num: 20
Candidate Starts for Sandman_26:
(Start: 20 @15337 has 39 MA's), (Start: 24 @15391 has 4 MA's), (28, 15466), (30, 15550),

Gene: Saphira_27 Start: 15256, Stop: 15522, Start Num: 20
Candidate Starts for Saphira_27:
(Start: 20 @15256 has 39 MA's), (23, 15304), (Start: 24 @15310 has 4 MA's), (28, 15385),

Gene: SerialPhiller_23 Start: 15059, Stop: 15271, Start Num: 24
Candidate Starts for SerialPhiller_23:
(10, 14903), (Start: 21 @15008 has 1 MA's), (23, 15053), (Start: 24 @15059 has 4 MA's),

Gene: Seume_26 Start: 15026, Stop: 15292, Start Num: 20
Candidate Starts for Seume_26:
(Start: 20 @15026 has 39 MA's), (Start: 24 @15080 has 4 MA's), (28, 15155), (30, 15239),

Gene: Sourignavong_27 Start: 15332, Stop: 15598, Start Num: 20
Candidate Starts for Sourignavong_27:
(Start: 20 @15332 has 39 MA's), (Start: 24 @15386 has 4 MA's), (28, 15461), (30, 15545),

Gene: StewieGriff_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for StewieGriff_26:
(Start: 20 @15263 has 39 MA's), (23, 15311), (Start: 24 @15317 has 4 MA's), (28, 15392),

Gene: Stratus_26 Start: 15337, Stop: 15603, Start Num: 20
Candidate Starts for Stratus_26:
(Start: 20 @15337 has 39 MA's), (Start: 24 @15391 has 4 MA's), (28, 15466), (30, 15550),

Gene: StrawberryLem_23 Start: 14969, Stop: 15181, Start Num: 24
Candidate Starts for StrawberryLem_23:
(10, 14813), (Start: 21 @14918 has 1 MA's), (23, 14963), (Start: 24 @14969 has 4 MA's), (28, 15044),

Gene: Swenson_26 Start: 15387, Stop: 15653, Start Num: 20
Candidate Starts for Swenson_26:
(7, 15264), (13, 15312), (15, 15321), (Start: 20 @15387 has 39 MA's), (23, 15435), (Start: 24 @15441 has 4 MA's), (28, 15516),

Gene: Taj14_26 Start: 15253, Stop: 15519, Start Num: 20
Candidate Starts for Taj14_26:
(Start: 20 @15253 has 39 MA's), (23, 15301), (Start: 24 @15307 has 4 MA's), (28, 15382),

Gene: TinoCrisci_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for TinoCrisci_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Toulouse_25 Start: 15026, Stop: 15292, Start Num: 20
Candidate Starts for Toulouse_25:
(Start: 20 @15026 has 39 MA's), (Start: 24 @15080 has 4 MA's), (28, 15155), (30, 15239),

Gene: TymAbreu_26 Start: 15263, Stop: 15529, Start Num: 20
Candidate Starts for TymAbreu_26:
(Start: 20 @15263 has 39 MA's), (Start: 24 @15317 has 4 MA's), (28, 15392), (30, 15476),

Gene: Vinye_27 Start: 15707, Stop: 15967, Start Num: 22
Candidate Starts for Vinye_27:
(3, 15473), (5, 15521), (6, 15527), (8, 15593), (12, 15605), (17, 15668), (Start: 22 @15707 has 1 MA's), (Start: 24 @15755 has 4 MA's), (26, 15803), (31, 15941),

Gene: Ximeno_23 Start: 15006, Stop: 15269, Start Num: 21
Candidate Starts for Ximeno_23:
(10, 14901), (Start: 21 @15006 has 1 MA's), (23, 15051), (Start: 24 @15057 has 4 MA's), (28, 15132),

Gene: Yank_26 Start: 15231, Stop: 15497, Start Num: 20
Candidate Starts for Yank_26:
(Start: 20 @15231 has 39 MA's), (Start: 24 @15285 has 4 MA's), (28, 15360), (30, 15444),

Gene: Zipp_43 Start: 39758, Stop: 39973, Start Num: 29
Candidate Starts for Zipp_43:
(1, 39260), (2, 39326), (4, 39392), (9, 39500), (11, 39503), (14, 39527), (23, 39650), (Start: 29 @39758 has 1 MA's), (32, 39860), (33, 39869), (34, 39890),