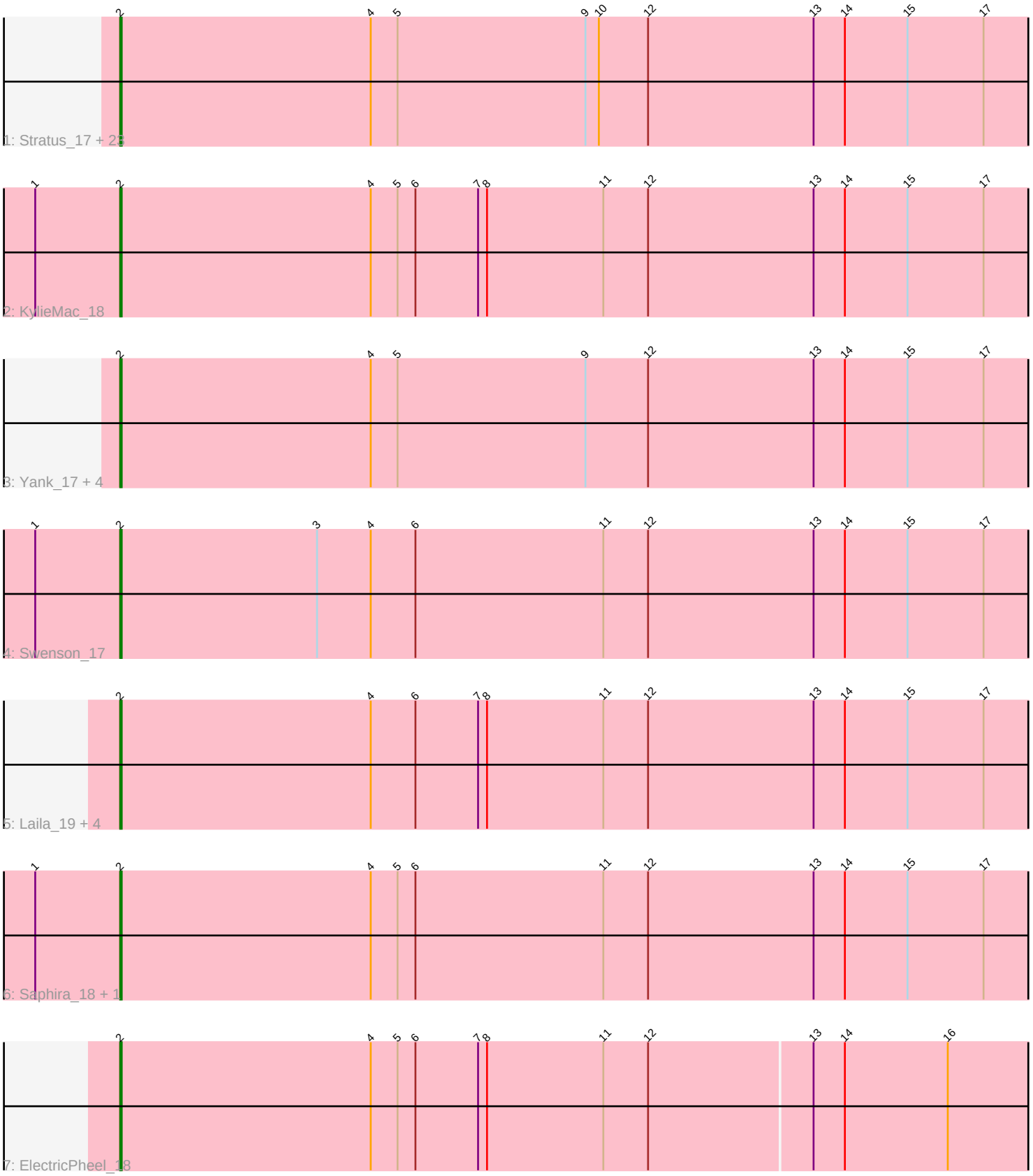
# Pham 347810


2
4
5
9
10
12
13
14
15
17
1: Stratus_17 + 23
1
2
4
5
6
7
8
11
12
13
14
15
17
2: KylieMac_18
2
4
5
9
12
13
14
15
17
3: Yank_17 + 4
1
2
3
4
6
11
12
13
14
15
17
4: Swenson_17
2
4
6
7
8
11
12
13
14
15
17
5: Laila_19 + 4
1
2
4
5
6
11
12
13
14
15
17
6: Saphira_18 + 1
2
4
5
6
7
8
11
12
13
14
16
7: ElectricPheel_18

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 347810 Report

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

Pham number 347810 has 39 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Stratus_17, Copper_17, TinoCrisci_17, CGermain_17, TymAbreu_17, Jessica_18, Massimo_17, Maggie_17, Mariposa_17, Guntur_17, Hunnie_17, Seume_17, Chestnut_17, Toulouse_16, Sandman_17, Dewayne_17, Ronnie_17, Prospero_17, Inspire2_17, LouisXIV_17, Courtney3_17, Arby_17, Moloch_17, Azathoth_17
• Track 2 : KylieMac_18
• Track 3 : Yank_17, Decurro_17, Sourignavong_18, Link_17, Muttlie_17
• Track 4 : Swenson_17
• Track 5 : Laila_19, StewieGriff_17, Blair_17, Elkhorn_17, Lore_17
• Track 6 : Saphira_18, Taj14_17
• Track 7 : ElectricPheel_18

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

The start number called the most often in the published annotations is 2, it was called in 39 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arby_17, Azathoth_17, Blair_17, CGermain_17, Chestnut_17, Copper_17, Courtney3_17, Decurro_17, Dewayne_17, ElectricPheel_18, Elkhorn_17, Guntur_17, Hunnie_17, Inspire2_17, Jessica_18, KylieMac_18, Laila_19, Link_17, Lore_17, LouisXIV_17, Maggie_17, Mariposa_17, Massimo_17, Moloch_17, Muttlie_17, Prospero_17, Ronnie_17, Sandman_17, Saphira_18, Seume_17, Sourignavong_18, StewieGriff_17, Stratus_17, Swenson_17, Taj14_17, TinoCrisci_17, Toulouse_16, TymAbreu_17, Yank_17,

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

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

**Summary by start number:**

Start 2:
• Found in 39 of 39 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 39 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arby_17 (AN), Azathoth_17 (AN), Blair_17 (AN), CGermain_17 (AN), Chestnut_17 (AN), Copper_17 (AN), Courtney3_17 (AN), Decurro_17 (AN), Dewayne_17 (AN), ElectricPheel_18 (AN), Elkhorn_17 (AN), Guntur_17 (AN), Hunnie_17 (AN), Inspire2_17 (AN), Jessica_18 (AN), KylieMac_18 (AN), Laila_19 (AN), Link_17 (AN), Lore_17 (AN), LouisXIV_17 (AN), Maggie_17 (AN), Mariposa_17 (AN), Massimo_17 (AN), Moloch_17 (AN), Muttlie_17 (AN), Prospero_17 (AN), Ronnie_17 (AN), Sandman_17 (AN), Saphira_18 (AN), Seume_17 (AN), Sourignavong_18 (AN), StewieGriff_17 (AN), Stratus_17 (AN), Swenson_17 (AN), Taj14_17 (AN), TinoCrisci_17 (AN), Toulouse_16 (AN), TymAbreu_17 (AN), Yank_17 (AN),

**Summary by clusters:**

There is one cluster represented in this pham: AN

Info for manual annotations of cluster AN:
•Start number 2 was manually annotated 39 times for cluster AN.

***Gene Information:***

Gene: Arby_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Arby_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Azathoth_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Azathoth_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Blair_17 Start: 12053, Stop: 12694, Start Num: 2
Candidate Starts for Blair_17:
(Start: 2 @12053 has 39 MA's), (4, 12221), (6, 12251), (7, 12293), (8, 12299), (11, 12377), (12, 12407), (13, 12518), (14, 12539), (15, 12581), (17, 12632),

Gene: CGermain_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for CGermain_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Chestnut_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Chestnut_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Copper_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Copper_17:

(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Courtney3_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Courtney3_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Decurro_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Decurro_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Dewayne_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Dewayne_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: ElectricPheel_18 Start: 12127, Stop: 12765, Start Num: 2
Candidate Starts for ElectricPheel_18:
(Start: 2 @12127 has 39 MA's), (4, 12295), (5, 12313), (6, 12325), (7, 12367), (8, 12373), (11, 12451), (12, 12481), (13, 12589), (14, 12610), (16, 12679),

Gene: Elkhorn_17 Start: 12053, Stop: 12694, Start Num: 2
Candidate Starts for Elkhorn_17:
(Start: 2 @12053 has 39 MA's), (4, 12221), (6, 12251), (7, 12293), (8, 12299), (11, 12377), (12, 12407), (13, 12518), (14, 12539), (15, 12581), (17, 12632),

Gene: Guntur_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Guntur_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Hunnie_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Hunnie_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Inspire2_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Inspire2_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Jessica_18 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Jessica_18:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: KylieMac_18 Start: 12040, Stop: 12681, Start Num: 2
Candidate Starts for KylieMac_18:
(1, 11983), (Start: 2 @12040 has 39 MA's), (4, 12208), (5, 12226), (6, 12238), (7, 12280), (8, 12286), (11, 12364), (12, 12394), (13, 12505), (14, 12526), (15, 12568), (17, 12619),

Gene: Laila_19 Start: 12053, Stop: 12694, Start Num: 2
Candidate Starts for Laila_19:
(Start: 2 @12053 has 39 MA's), (4, 12221), (6, 12251), (7, 12293), (8, 12299), (11, 12377), (12, 12407), (13, 12518), (14, 12539), (15, 12581), (17, 12632),

Gene: Link_17 Start: 12047, Stop: 12688, Start Num: 2
Candidate Starts for Link_17:
(Start: 2 @12047 has 39 MA's), (4, 12215), (5, 12233), (9, 12359), (12, 12401), (13, 12512), (14, 12533), (15, 12575), (17, 12626),

Gene: Lore_17 Start: 12053, Stop: 12694, Start Num: 2
Candidate Starts for Lore_17:
(Start: 2 @12053 has 39 MA's), (4, 12221), (6, 12251), (7, 12293), (8, 12299), (11, 12377), (12, 12407), (13, 12518), (14, 12539), (15, 12581), (17, 12632),

Gene: LouisXIV_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for LouisXIV_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Maggie_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Maggie_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Mariposa_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Mariposa_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Massimo_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Massimo_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Moloch_17 Start: 12124, Stop: 12765, Start Num: 2
Candidate Starts for Moloch_17:
(Start: 2 @12124 has 39 MA's), (4, 12292), (5, 12310), (9, 12436), (10, 12445), (12, 12478), (13, 12589), (14, 12610), (15, 12652), (17, 12703),

Gene: Muttlie_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Muttlie_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Prospero_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Prospero_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Ronnie_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Ronnie_17:

(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Sandman_17 Start: 12124, Stop: 12765, Start Num: 2
Candidate Starts for Sandman_17:
(Start: 2 @12124 has 39 MA's), (4, 12292), (5, 12310), (9, 12436), (10, 12445), (12, 12478), (13, 12589), (14, 12610), (15, 12652), (17, 12703),

Gene: Saphira_18 Start: 12055, Stop: 12699, Start Num: 2
Candidate Starts for Saphira_18:
(1, 11998), (Start: 2 @12055 has 39 MA's), (4, 12223), (5, 12241), (6, 12253), (11, 12379), (12, 12409), (13, 12520), (14, 12541), (15, 12583), (17, 12634),

Gene: Seume_17 Start: 11845, Stop: 12486, Start Num: 2
Candidate Starts for Seume_17:
(Start: 2 @11845 has 39 MA's), (4, 12013), (5, 12031), (9, 12157), (10, 12166), (12, 12199), (13, 12310), (14, 12331), (15, 12373), (17, 12424),

Gene: Sourignavong_18 Start: 12151, Stop: 12792, Start Num: 2
Candidate Starts for Sourignavong_18:
(Start: 2 @12151 has 39 MA's), (4, 12319), (5, 12337), (9, 12463), (12, 12505), (13, 12616), (14, 12637), (15, 12679), (17, 12730),

Gene: StewieGriff_17 Start: 12053, Stop: 12694, Start Num: 2
Candidate Starts for StewieGriff_17:
(Start: 2 @12053 has 39 MA's), (4, 12221), (6, 12251), (7, 12293), (8, 12299), (11, 12377), (12, 12407), (13, 12518), (14, 12539), (15, 12581), (17, 12632),

Gene: Stratus_17 Start: 12124, Stop: 12765, Start Num: 2
Candidate Starts for Stratus_17:
(Start: 2 @12124 has 39 MA's), (4, 12292), (5, 12310), (9, 12436), (10, 12445), (12, 12478), (13, 12589), (14, 12610), (15, 12652), (17, 12703),

Gene: Swenson_17 Start: 12177, Stop: 12821, Start Num: 2
Candidate Starts for Swenson_17:
(1, 12120), (Start: 2 @12177 has 39 MA's), (3, 12309), (4, 12345), (6, 12375), (11, 12501), (12, 12531), (13, 12642), (14, 12663), (15, 12705), (17, 12756),

Gene: Taj14_17 Start: 12052, Stop: 12696, Start Num: 2
Candidate Starts for Taj14_17:
(1, 11995), (Start: 2 @12052 has 39 MA's), (4, 12220), (5, 12238), (6, 12250), (11, 12376), (12, 12406), (13, 12517), (14, 12538), (15, 12580), (17, 12631),

Gene: TinoCrisci_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for TinoCrisci_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Toulouse_16 Start: 11845, Stop: 12486, Start Num: 2
Candidate Starts for Toulouse_16:
(Start: 2 @11845 has 39 MA's), (4, 12013), (5, 12031), (9, 12157), (10, 12166), (12, 12199), (13, 12310), (14, 12331), (15, 12373), (17, 12424),

Gene: TymAbreu_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for TymAbreu_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (10, 12371), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),

Gene: Yank_17 Start: 12050, Stop: 12691, Start Num: 2
Candidate Starts for Yank_17:
(Start: 2 @12050 has 39 MA's), (4, 12218), (5, 12236), (9, 12362), (12, 12404), (13, 12515), (14, 12536), (15, 12578), (17, 12629),