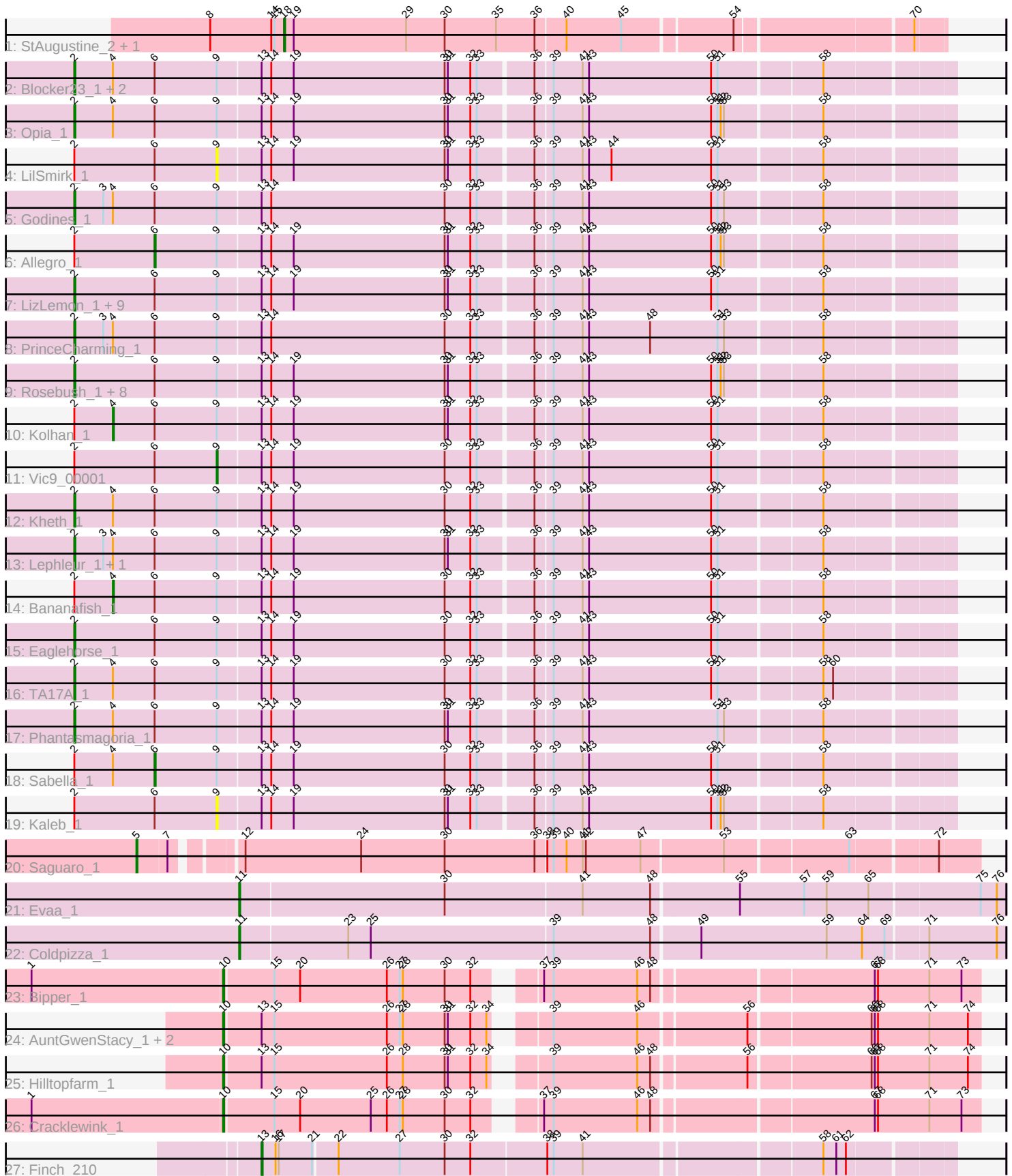


Pham 280535



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 280535 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280535 has 50 members, 3 are drafts.

Phages represented in each track:

- Track 1 : StAugustine_2, Causa_2
- Track 2 : Blocker23_1, Tres_1, Laurie_1
- Track 3 : Opia_1
- Track 4 : LilSmirk_1
- Track 5 : Godines_1
- Track 6 : Allegro_1
- Track 7 : LizLemon_1, Ares_1, Calamitous_1, Lars_1, ItsyBitsy1_1, Qyrzula_1, Arbiter_1, Holeinone_1, Rhinoforte_1, Glass_1
- Track 8 : PrinceCharming_1
- Track 9 : Rosebush_1, Hedgerow_1, Boyle_1, FrenchFry_1, Coffee_1, Tinciduntolum_1, Faze9_1, Brownie5_1, West99_1
- Track 10 : Kolhan_1
- Track 11 : Vic9_00001
- Track 12 : Kheth_1
- Track 13 : Lephleur_1, MasterPo_1
- Track 14 : Bananafish_1
- Track 15 : Eaglehorse_1
- Track 16 : TA17A_1
- Track 17 : Phantasmagoria_1
- Track 18 : Sabella_1
- Track 19 : Kaleb_1
- Track 20 : Saguaro_1
- Track 21 : Evaa_1
- Track 22 : Coldpizza_1
- Track 23 : Bipper_1
- Track 24 : AuntGwenStacy_1, Faiyaz_1, Typha_1
- Track 25 : Hilltopfarm_1
- Track 26 : Cracklewink_1
- Track 27 : Finch_210

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 31 of the 47 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arbiter_1, Ares_1, Blocker23_1, Boyle_1, Brownie5_1, Calamitous_1, Coffee_1, Eaglehorse_1, Faze9_1, FrenchFry_1, Glass_1, Godines_1, Hedgerow_1, Holeinone_1, ItsyBitsy1_1, Kheth_1, Lars_1, Laurie_1, Lephleur_1, LizLemon_1, MasterPo_1, Opia_1, Phantasmagoria_1, PrinceCharming_1, Qyrzula_1, Rhinoforte_1, Rosebush_1, TA17A_1, Tinciduntsum_1, Tres_1, West99_1,

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

- Allegro_1, Bananafish_1, Kaleb_1, Kolhan_1, LilSmirk_1, Sabella_1, Vic9_00001,

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

- AuntGwenStacy_1, Bipper_1, Causa_2, Coldpizza_1, Cracklewink_1, Evaa_1, Faiyaz_1, Finch_210, Hilltopfarm_1, Saguaro_1, StAugustine_2, Typha_1,

Summary by start number:

Start 2:

- Found in 38 of 50 (76.0%) of genes in pham
- Manual Annotations of this start: 31 of 47
- Called 81.6% of time when present
- Phage (with cluster) where this start called: Arbiter_1 (B2), Ares_1 (B2), Blocker23_1 (B2), Boyle_1 (B2), Brownie5_1 (B2), Calamitous_1 (B2), Coffee_1 (B2), Eaglehorse_1 (B2), Faze9_1 (B2), FrenchFry_1 (B2), Glass_1 (B2), Godines_1 (B2), Hedgerow_1 (B2), Holeinone_1 (B2), ItsyBitsy1_1 (B2), Kheth_1 (B2), Lars_1 (B2), Laurie_1 (B2), Lephleur_1 (B2), LizLemon_1 (B2), MasterPo_1 (B2), Opia_1 (B2), Phantasmagoria_1 (B2), PrinceCharming_1 (B2), Qyrzula_1 (B2), Rhinoforte_1 (B2), Rosebush_1 (B2), TA17A_1 (B2), Tinciduntsum_1 (B2), Tres_1 (B2), West99_1 (B2),

Start 4:

- Found in 14 of 50 (28.0%) of genes in pham
- Manual Annotations of this start: 2 of 47
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Bananafish_1 (B2), Kolhan_1 (B2),

Start 5:

- Found in 1 of 50 (2.0%) 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: Saguaro_1 (B7),

Start 6:

- Found in 38 of 50 (76.0%) of genes in pham
- Manual Annotations of this start: 2 of 47
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Allegro_1 (B2), Sabella_1 (B2),

Start 9:

- Found in 38 of 50 (76.0%) of genes in pham
- Manual Annotations of this start: 1 of 47
- Called 7.9% of time when present

- Phage (with cluster) where this start called: Kaleb_1 (B2), LilSmirk_1 (B2), Vic9_00001 (B2),

Start 10:

- Found in 6 of 50 (12.0%) of genes in pham
- Manual Annotations of this start: 5 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AuntGwenStacy_1 (Y), Bipper_1 (Y), Cracklewink_1 (Y), Faiyaz_1 (Y), Hilltopfarm_1 (Y), Typha_1 (Y),

Start 11:

- Found in 2 of 50 (4.0%) of genes in pham
- Manual Annotations of this start: 2 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Coldpizza_1 (DR), Evaa_1 (DR),

Start 13:

- Found in 43 of 50 (86.0%) of genes in pham
- Manual Annotations of this start: 1 of 47
- Called 2.3% of time when present
- Phage (with cluster) where this start called: Finch_210 (singleton),

Start 18:

- Found in 2 of 50 (4.0%) of genes in pham
- Manual Annotations of this start: 2 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa_2 (AI), StAugustine_2 (AI),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, AI, B7, B2, Y, DR,

Info for manual annotations of cluster AI:

- Start number 18 was manually annotated 2 times for cluster AI.

Info for manual annotations of cluster B2:

- Start number 2 was manually annotated 31 times for cluster B2.
- Start number 4 was manually annotated 2 times for cluster B2.
- Start number 6 was manually annotated 2 times for cluster B2.
- Start number 9 was manually annotated 1 time for cluster B2.

Info for manual annotations of cluster B7:

- Start number 5 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster DR:

- Start number 11 was manually annotated 2 times for cluster DR.

Info for manual annotations of cluster Y:

- Start number 10 was manually annotated 5 times for cluster Y.

Gene Information:

Gene: Allegro_1 Start: 76, Stop: 792, Start Num: 6

Candidate Starts for Allegro_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (52, 592), (53, 595), (58, 679),

Gene: Arbiter_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Arbiter_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Ares_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Ares_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: AuntGwenStacy_1 Start: 202, Stop: 861, Start Num: 10

Candidate Starts for AuntGwenStacy_1:

(Start: 10 @202 has 5 MA's), (Start: 13 @235 has 1 MA's), (15, 247), (26, 352), (27, 364), (28, 367), (30, 406), (31, 409), (32, 430), (34, 445), (39, 481), (46, 559), (56, 652), (66, 760), (67, 763), (68, 766), (71, 814), (74, 850),

Gene: Bananafish_1 Start: 37, Stop: 792, Start Num: 4

Candidate Starts for Bananafish_1:

(Start: 2 @1 has 31 MA's), (Start: 4 @37 has 2 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Bipper_1 Start: 202, Stop: 861, Start Num: 10

Candidate Starts for Bipper_1:

(1, 25), (Start: 10 @202 has 5 MA's), (15, 247), (20, 271), (26, 352), (27, 364), (28, 367), (30, 406), (32, 430), (37, 472), (39, 481), (46, 559), (48, 571), (67, 763), (68, 766), (71, 814), (73, 844),

Gene: Blocker23_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Blocker23_1:

(Start: 2 @1 has 31 MA's), (Start: 4 @37 has 2 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Boyle_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Boyle_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (52, 592), (53, 595), (58, 679),

Gene: Brownie5_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Brownie5_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (52, 592), (53, 595), (58, 679),

Gene: Calamitous_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Calamitous_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Causa_2 Start: 428, Stop: 1015, Start Num: 18

Candidate Starts for Causa_2:

(8, 359), (14, 416), (15, 419), (Start: 18 @428 has 2 MA's), (19, 437), (29, 542), (30, 578), (35, 626), (36, 662), (40, 689), (45, 740), (54, 836), (70, 989),

Gene: Coffee_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Coffee_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (52, 592), (53, 595), (58, 679),

Gene: Coldpizza_1 Start: 1, Stop: 699, Start Num: 11

Candidate Starts for Coldpizza_1:

(Start: 11 @1 has 2 MA's), (23, 100), (25, 121), (39, 289), (48, 379), (49, 421), (59, 538), (64, 571), (69, 592), (71, 628), (76, 691),

Gene: Cracklewink_1 Start: 202, Stop: 861, Start Num: 10

Candidate Starts for Cracklewink_1:

(1, 25), (Start: 10 @202 has 5 MA's), (15, 247), (20, 271), (25, 337), (26, 352), (27, 364), (28, 367), (30, 406), (32, 430), (37, 472), (39, 481), (46, 559), (48, 571), (67, 763), (68, 766), (71, 814), (73, 844),

Gene: Eaglehorse_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Eaglehorse_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Evaa_1 Start: 1, Stop: 699, Start Num: 11

Candidate Starts for Evaa_1:

(Start: 11 @1 has 2 MA's), (30, 190), (41, 316), (48, 379), (55, 457), (57, 517), (59, 538), (65, 577), (75, 676), (76, 691),

Gene: Faiyaz_1 Start: 202, Stop: 861, Start Num: 10

Candidate Starts for Faiyaz_1:

(Start: 10 @202 has 5 MA's), (Start: 13 @235 has 1 MA's), (15, 247), (26, 352), (27, 364), (28, 367), (30, 406), (31, 409), (32, 430), (34, 445), (39, 481), (46, 559), (56, 652), (66, 760), (67, 763), (68, 766), (71, 814), (74, 850),

Gene: Faze9_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Faze9_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (52, 592), (53, 595), (58, 679),

Gene: Finch_210 Start: 122277, Stop: 122888, Start Num: 13

Candidate Starts for Finch_210:

(Start: 13 @122277 has 1 MA's), (16, 122289), (17, 122292), (21, 122322), (22, 122343), (27, 122400), (30, 122442), (32, 122466), (38, 122535), (39, 122541), (41, 122568), (58, 122775), (61, 122787), (62, 122796),

Gene: FrenchFry_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for FrenchFry_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (52, 592), (53, 595), (58, 679),

Gene: Glass_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Glass_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Godines_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Godines_1:

(Start: 2 @1 has 31 MA's), (3, 28), (Start: 4 @37 has 2 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (30, 343), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (53, 595), (58, 679),

Gene: Hedgerow_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Hedgerow_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (52, 592), (53, 595), (58, 679),

Gene: Hilltopfarm_1 Start: 202, Stop: 861, Start Num: 10

Candidate Starts for Hilltopfarm_1:

(Start: 10 @202 has 5 MA's), (Start: 13 @235 has 1 MA's), (15, 247), (26, 352), (28, 367), (30, 406), (31, 409), (32, 430), (34, 445), (39, 481), (46, 559), (48, 571), (56, 652), (66, 760), (67, 763), (68, 766), (71, 814), (74, 850),

Gene: Holeinone_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Holeinone_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: ItsyBitsy1_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for ItsyBitsy1_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Kaleb_1 Start: 133, Stop: 792, Start Num: 9

Candidate Starts for Kaleb_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (52, 592), (53, 595), (58, 679),

Gene: Kheth_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Kheth_1:

(Start: 2 @1 has 31 MA's), (Start: 4 @37 has 2 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Kolhan_1 Start: 37, Stop: 792, Start Num: 4

Candidate Starts for Kolhan_1:

(Start: 2 @1 has 31 MA's), (Start: 4 @37 has 2 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Lars_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Lars_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Laurie_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Laurie_1:

(Start: 2 @1 has 31 MA's), (Start: 4 @37 has 2 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Lephleur_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Lephleur_1:

(Start: 2 @1 has 31 MA's), (3, 28), (Start: 4 @37 has 2 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: LilSmirk_1 Start: 133, Stop: 792, Start Num: 9

Candidate Starts for LilSmirk_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (44, 490), (50, 583), (51, 589), (58, 679),

Gene: LizLemon_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for LizLemon_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: MasterPo_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for MasterPo_1:

(Start: 2 @1 has 31 MA's), (3, 28), (Start: 4 @37 has 2 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Opia_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Opia_1:

(Start: 2 @1 has 31 MA's), (Start: 4 @37 has 2 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (52, 592), (53, 595), (58, 679),

Gene: Phantasmagoria_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Phantasmagoria_1:

(Start: 2 @1 has 31 MA's), (Start: 4 @37 has 2 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (51, 589), (53, 595), (58, 679),

Gene: PrinceCharming_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for PrinceCharming_1:

(Start: 2 @1 has 31 MA's), (3, 28), (Start: 4 @37 has 2 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (30, 343), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (48, 526), (51, 589), (53, 595), (58, 679),

Gene: Qyrzula_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Qyrzula_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Rhinoforte_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Rhinoforte_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Rosebush_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Rosebush_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (52, 592), (53, 595), (58, 679),

Gene: Sabella_1 Start: 76, Stop: 792, Start Num: 6

Candidate Starts for Sabella_1:

(Start: 2 @1 has 31 MA's), (Start: 4 @37 has 2 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Saguaro_1 Start: 1, Stop: 735, Start Num: 5

Candidate Starts for Saguaro_1:

(Start: 5 @1 has 1 MA's), (7, 28), (12, 79), (24, 187), (30, 265), (36, 349), (38, 358), (39, 364), (40, 376), (41, 391), (42, 394), (47, 445), (53, 517), (63, 625), (72, 700),

Gene: StAugustine_2 Start: 428, Stop: 1015, Start Num: 18

Candidate Starts for StAugustine_2:

(8, 359), (14, 416), (15, 419), (Start: 18 @428 has 2 MA's), (19, 437), (29, 542), (30, 578), (35, 626), (36, 662), (40, 689), (45, 740), (54, 836), (70, 989),

Gene: TA17A_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for TA17A_1:

(Start: 2 @1 has 31 MA's), (Start: 4 @37 has 2 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679), (60, 688),

Gene: Tinciduntolum_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Tincidunt_solum_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (52, 592), (53, 595), (58, 679),

Gene: Tres_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for Tres_1:

(Start: 2 @1 has 31 MA's), (Start: 4 @37 has 2 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: Typha_1 Start: 202, Stop: 861, Start Num: 10

Candidate Starts for Typha_1:

(Start: 10 @202 has 5 MA's), (Start: 13 @235 has 1 MA's), (15, 247), (26, 352), (27, 364), (28, 367), (30, 406), (31, 409), (32, 430), (34, 445), (39, 481), (46, 559), (56, 652), (66, 760), (67, 763), (68, 766), (71, 814), (74, 850),

Gene: Vic9_00001 Start: 133, Stop: 792, Start Num: 9

Candidate Starts for Vic9_00001:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (58, 679),

Gene: West99_1 Start: 1, Stop: 792, Start Num: 2

Candidate Starts for West99_1:

(Start: 2 @1 has 31 MA's), (Start: 6 @76 has 2 MA's), (Start: 9 @133 has 1 MA's), (Start: 13 @172 has 1 MA's), (14, 181), (19, 202), (30, 343), (31, 346), (32, 367), (33, 373), (36, 421), (39, 436), (41, 463), (43, 469), (50, 583), (51, 589), (52, 592), (53, 595), (58, 679),