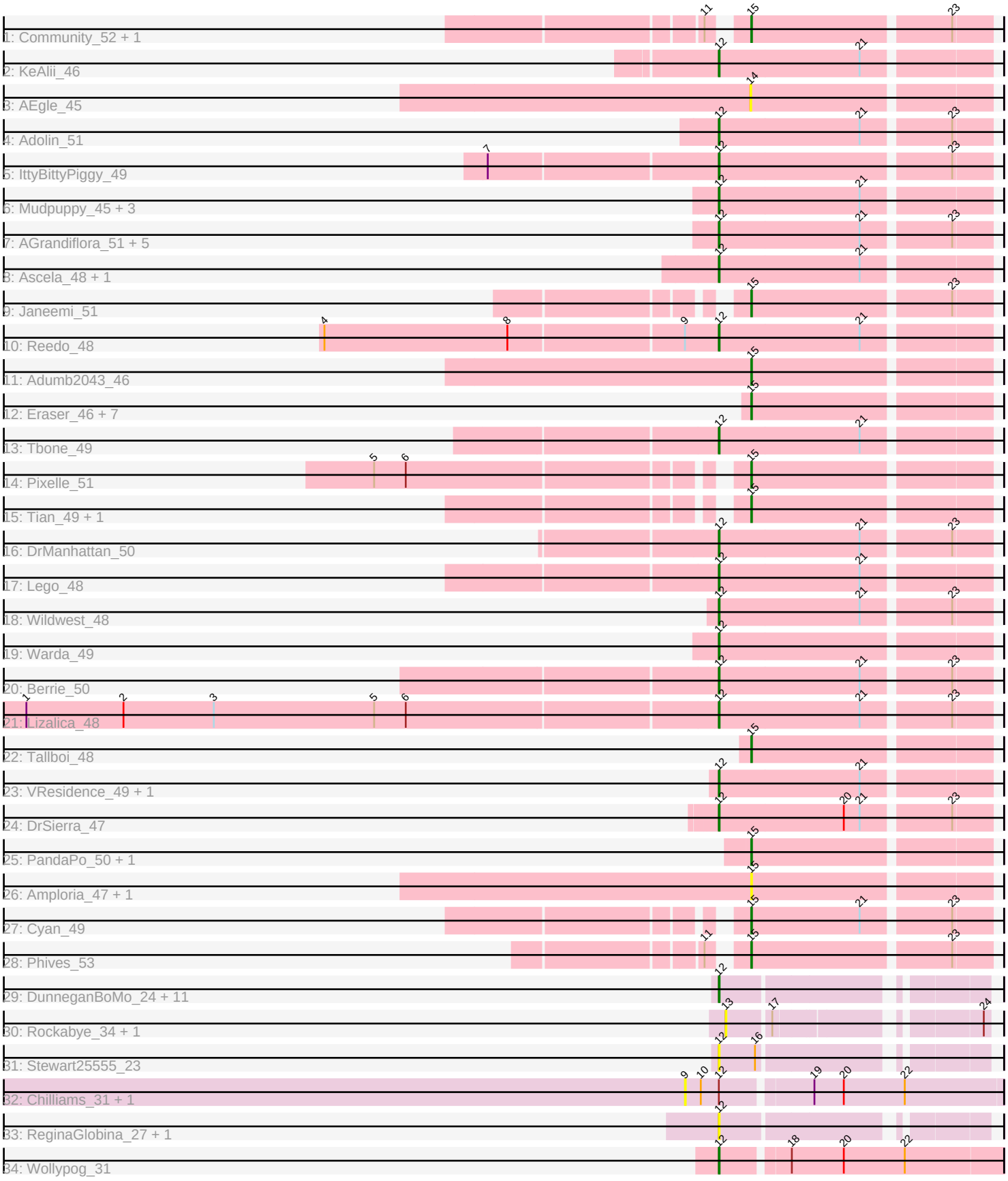
Pham 296543


1: Community_52 + 1
2: KeAlii_46
3: AEgle_45
4: Adolin_51
5: IttyBittyPiggy_49
6: Mudpuppy_45 + 3
7: AGrandiflora_51 + 5
8: Ascela_48 + 1
9: Janeemi_51
10: Reedo_48
11: Adumb2043_46
12: Eraser_46 + 7
13: Tbone_49
14: Pixelle_51
15: Tian_49 + 1
16: DrManhattan_50
17: Lego_48
18: Wildwest_48
19: Warda_49
20: Berrie_50
21: Lizalica_48
22: Tallboi_48
23: VResidence_49 + 1
24: DrSierra_47
25: PandaPo_50 + 1
26: Amploria_47 + 1
27: Cyan_49
28: Phives_53
29: DunneganBoMo_24 + 11
30: Rockabye_34 + 1
31: Stewart25555_23
32: Chilliams_31 + 1
33: ReginaGlobina_27 + 1
34: Wollypog_31

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 296543 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296543 has 69 members, 27 are drafts.

Phages represented in each track:
• Track 1 : Community_52, Tuck_52
• Track 2 : KeAlii_46
• Track 3 : AEgle_45
• Track 4 : Adolin_51
• Track 5 : IttyBittyPiggy_49
• Track 6 : Mudpuppy_45, YesChef_49, Tutumahutu_50, Powerpuff_51
• Track 7 : AGrandiflora_51, Joemato_49, Simpson_51, Flutur_48, Kaylissa_50, JohnDoe_49
• Track 8 : Ascela_48, Iter_48
• Track 9 : Janeemi_51
• Track 10 : Reedo_48
• Track 11 : Adumb2043_46
• Track 12 : Eraser_46, Asa16_46, Elezi_46, London_46, Skelbel_47, Subaru_47, Niobe_46, Jstan_48
• Track 13 : Tbone_49
• Track 14 : Pixelle_51
• Track 15 : Tian_49, Amyev_50
• Track 16 : DrManhattan_50
• Track 17 : Lego_48
• Track 18 : Wildwest_48
• Track 19 : Warda_49
• Track 20 : Berrie_50
• Track 21 : Lizalica_48
• Track 22 : Tallboi_48
• Track 23 : VResidence_49, Nitro_48
• Track 24 : DrSierra_47
• Track 25 : PandaPo_50, MissSwiss_50
• Track 26 : Amploria_47, Turab_46
• Track 27 : Cyan_49
• Track 28 : Phives_53
• Track 29 : DunneganBoMo_24, Artu_25, WaddleDee_314, Emmetator_318, KSunshine22_318, DunneganBoMo_319, KSunshine22_26, BooTeria_326, Artu_312, WaddleDee_23, BooTeria_27, Emmetator_24
• Track 30 : Rockabye_34, Rockabye_333
• Track 31 : Stewart25555_23
• Track 32 : Chilliams_31, Chilliams_322
• Track 33 : ReginaGlobina_27, ReginaGlobina_338

• Track 34 : Wollypog_31

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

The start number called the most often in the published annotations is 12, it was called in 28 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AGrandiflora_51, Adolin_51, Artu_25, Artu_312, Ascela_48, Berrie_50, BooTeria_27, BooTeria_326, DrManhattan_50, DrSierra_47, DunneganBoMo_24, DunneganBoMo_319, Emmetator_24, Emmetator_318, Flutur_48, Iter_48, IttyBittyPiggy_49, Joemato_49, JohnDoe_49, KSunshine22_26, KSunshine22_318, Kaylissa_50, KeAlii_46, Lego_48, Lizalica_48, Mudpuppy_45, Nitro_48, Powerpuff_51, Reedo_48, ReginaGlobina_27, ReginaGlobina_338, Simpson_51, Stewart25555_23, Tbone_49, Tutumahutu_50, VResidence_49, WaddleDee_23, WaddleDee_314, Warda_49, Wildwest_48, Wollypog_31, YesChef_49,

Genes that have the "Most Annotated" start but do not call it:
• Chilliams_31, Chilliams_322,

Genes that do not have the "Most Annotated" start:
• AEgle_45, Adumb2043_46, Amploria_47, Amyev_50, Asa16_46, Community_52, Cyan_49, Elezi_46, Eraser_46, Janeemi_51, Jstan_48, London_46, MissSwiss_50, Niobe_46, PandaPo_50, Phives_53, Pixelle_51, Rockabye_333, Rockabye_34, Skelbel_47, Subaru_47, Tallboi_48, Tian_49, Tuck_52, Turab_46,

Summary by start number:

Start 9:
• Found in 3 of 69 (4.3%) of genes in pham
• No Manual Annotations of this start.
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Chilliams_31 (FC), Chilliams_322 (FC),

Start 12:
• Found in 44 of 69 (63.8%) of genes in pham
• Manual Annotations of this start: 28 of 42
• Called 95.5% of time when present
• Phage (with cluster) where this start called: AGrandiflora_51 (AZ1), Adolin_51 (AZ1), Artu_25 (FC), Artu_312 (FC), Ascela_48 (AZ1), Berrie_50 (AZ1), BooTeria_27 (FC), BooTeria_326 (FC), DrManhattan_50 (AZ1), DrSierra_47 (AZ1), DunneganBoMo_24 (FC), DunneganBoMo_319 (FC), Emmetator_24 (FC), Emmetator_318 (FC), Flutur_48 (AZ), Iter_48 (AZ1), IttyBittyPiggy_49 (AZ1), Joemato_49 (AZ1), JohnDoe_49 (AZ1), KSunshine22_26 (FC), KSunshine22_318 (FC), Kaylissa_50 (AZ1), KeAlii_46 (AZ1), Lego_48 (AZ1), Lizalica_48 (AZ1), Mudpuppy_45 (AZ1), Nitro_48 (AZ1), Powerpuff_51 (AZ1), Reedo_48 (AZ1), ReginaGlobina_27 (FC), ReginaGlobina_338 (FC), Simpson_51 (AZ1), Stewart25555_23 (FC), Tbone_49 (AZ1), Tutumahutu_50 (AZ1), VResidence_49 (AZ1), WaddleDee_23 (FC), WaddleDee_314 (FC), Warda_49 (AZ1), Wildwest_48 (AZ1), Wollypog_31 (singleton), YesChef_49 (AZ1),

Start 13:
• Found in 2 of 69 (2.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rockabye_333 (FC), Rockabye_34 (FC),

Start 14:
• Found in 1 of 69 (1.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AEgle_45 (AZ1),

Start 15:
• Found in 22 of 69 (31.9%) of genes in pham
• Manual Annotations of this start: 14 of 42
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adumb2043_46 (AZ1), Amploria_47 (AZ1), Amyev_50 (AZ1), Asa16_46 (AZ1), Community_52 (AZ1), Cyan_49 (AZ1), Elezi_46 (AZ1), Eraser_46 (AZ1), Janeemi_51 (AZ1), Jstan_48 (AZ1), London_46 (AZ1), MissSwiss_50 (AZ1), Niobe_46 (AZ1), PandaPo_50 (AZ1), Phives_53 (AZ1), Pixelle_51 (AZ1), Skelbel_47 (AZ1), Subaru_47 (AZ1), Tallboi_48 (AZ1), Tian_49 (AZ1), Tuck_52 (AZ1), Turab_46 (AZ1),

Summary by clusters:

There are 4 clusters represented in this pham: AZ1, singleton, FC, AZ,

Info for manual annotations of cluster AZ1:
•Start number 12 was manually annotated 23 times for cluster AZ1.
•Start number 15 was manually annotated 14 times for cluster AZ1.

Info for manual annotations of cluster FC:
•Start number 12 was manually annotated 4 times for cluster FC.

Gene Information:

Gene: AEgle_45 Start: 33909, Stop: 34211, Start Num: 14
Candidate Starts for AEgle_45:
(14, 33909),

Gene: AGrandiflora_51 Start: 35186, Stop: 35530, Start Num: 12
Candidate Starts for AGrandiflora_51:
(Start: 12 @35186 has 28 MA's), (21, 35372), (23, 35480),

Gene: Adolin_51 Start: 33940, Stop: 34284, Start Num: 12
Candidate Starts for Adolin_51:
(Start: 12 @33940 has 28 MA's), (21, 34126), (23, 34234),

Gene: Adumb2043_46 Start: 33931, Stop: 34233, Start Num: 15

Candidate Starts for Adumb2043_46:
(Start: 15 @33931 has 14 MA's),

Gene: Amploria_47 Start: 34114, Stop: 34416, Start Num: 15
Candidate Starts for Amploria_47:
(Start: 15 @34114 has 14 MA's),

Gene: Amyev_50 Start: 37254, Stop: 37556, Start Num: 15
Candidate Starts for Amyev_50:
(Start: 15 @37254 has 14 MA's),

Gene: Artu_25 Start: 10281, Stop: 10592, Start Num: 12
Candidate Starts for Artu_25:
(Start: 12 @10281 has 28 MA's),

Gene: Artu_312 Start: 189435, Stop: 189746, Start Num: 12
Candidate Starts for Artu_312:
(Start: 12 @189435 has 28 MA's),

Gene: Asa16_46 Start: 35253, Stop: 35555, Start Num: 15
Candidate Starts for Asa16_46:
(Start: 15 @35253 has 14 MA's),

Gene: Ascela_48 Start: 34498, Stop: 34842, Start Num: 12
Candidate Starts for Ascela_48:
(Start: 12 @34498 has 28 MA's), (21, 34684),

Gene: Berrie_50 Start: 35600, Stop: 35944, Start Num: 12
Candidate Starts for Berrie_50:
(Start: 12 @35600 has 28 MA's), (21, 35786), (23, 35894),

Gene: BooTeria_326 Start: 189730, Stop: 190041, Start Num: 12
Candidate Starts for BooTeria_326:
(Start: 12 @189730 has 28 MA's),

Gene: BooTeria_27 Start: 10821, Stop: 11132, Start Num: 12
Candidate Starts for BooTeria_27:
(Start: 12 @10821 has 28 MA's),

Gene: Chilliams_31 Start: 14259, Stop: 14663, Start Num: 9
Candidate Starts for Chilliams_31:
(9, 14259), (10, 14280), (Start: 12 @14304 has 28 MA's), (19, 14415), (20, 14454), (22, 14535),

Gene: Chilliams_322 Start: 186993, Stop: 187397, Start Num: 9
Candidate Starts for Chilliams_322:
(9, 186993), (10, 187014), (Start: 12 @187038 has 28 MA's), (19, 187149), (20, 187188), (22, 187269),

Gene: Community_52 Start: 36974, Stop: 37276, Start Num: 15
Candidate Starts for Community_52:
(11, 36938), (Start: 15 @36974 has 14 MA's), (23, 37226),

Gene: Cyan_49 Start: 34784, Stop: 35086, Start Num: 15
Candidate Starts for Cyan_49:

(Start: 15 @34784 has 14 MA's), (21, 34928), (23, 35036),

Gene: DrManhattan_50 Start: 33507, Stop: 33851, Start Num: 12
Candidate Starts for DrManhattan_50:
(Start: 12 @33507 has 28 MA's), (21, 33693), (23, 33801),

Gene: DrSierra_47 Start: 33655, Stop: 33999, Start Num: 12
Candidate Starts for DrSierra_47:
(Start: 12 @33655 has 28 MA's), (20, 33820), (21, 33841), (23, 33949),

Gene: DunneganBoMo_24 Start: 10807, Stop: 11118, Start Num: 12
Candidate Starts for DunneganBoMo_24:
(Start: 12 @10807 has 28 MA's),

Gene: DunneganBoMo_319 Start: 190219, Stop: 190530, Start Num: 12
Candidate Starts for DunneganBoMo_319:
(Start: 12 @190219 has 28 MA's),

Gene: Elezi_46 Start: 35250, Stop: 35552, Start Num: 15
Candidate Starts for Elezi_46:
(Start: 15 @35250 has 14 MA's),

Gene: Emmetator_318 Start: 188956, Stop: 189267, Start Num: 12
Candidate Starts for Emmetator_318:
(Start: 12 @188956 has 28 MA's),

Gene: Emmetator_24 Start: 10656, Stop: 10967, Start Num: 12
Candidate Starts for Emmetator_24:
(Start: 12 @10656 has 28 MA's),

Gene: Eraser_46 Start: 35260, Stop: 35562, Start Num: 15
Candidate Starts for Eraser_46:
(Start: 15 @35260 has 14 MA's),

Gene: Flutur_48 Start: 35040, Stop: 35384, Start Num: 12
Candidate Starts for Flutur_48:
(Start: 12 @35040 has 28 MA's), (21, 35226), (23, 35334),

Gene: Iter_48 Start: 34492, Stop: 34836, Start Num: 12
Candidate Starts for Iter_48:
(Start: 12 @34492 has 28 MA's), (21, 34678),

Gene: IttyBittyPiggy_49 Start: 34220, Stop: 34564, Start Num: 12
Candidate Starts for IttyBittyPiggy_49:
(7, 33926), (Start: 12 @34220 has 28 MA's), (23, 34514),

Gene: Janeemi_51 Start: 36499, Stop: 36801, Start Num: 15
Candidate Starts for Janeemi_51:
(Start: 15 @36499 has 14 MA's), (23, 36751),

Gene: Joemato_49 Start: 34811, Stop: 35155, Start Num: 12
Candidate Starts for Joemato_49:
(Start: 12 @34811 has 28 MA's), (21, 34997), (23, 35105),

Gene: JohnDoe_49 Start: 34807, Stop: 35151, Start Num: 12
Candidate Starts for JohnDoe_49:
(Start: 12 @34807 has 28 MA's), (21, 34993), (23, 35101),

Gene: Jstan_48 Start: 35255, Stop: 35557, Start Num: 15
Candidate Starts for Jstan_48:
(Start: 15 @35255 has 14 MA's),

Gene: KSunshine22_318 Start: 188079, Stop: 188390, Start Num: 12
Candidate Starts for KSunshine22_318:
(Start: 12 @188079 has 28 MA's),

Gene: KSunshine22_26 Start: 11178, Stop: 11489, Start Num: 12
Candidate Starts for KSunshine22_26:
(Start: 12 @11178 has 28 MA's),

Gene: Kaylissa_50 Start: 35202, Stop: 35546, Start Num: 12
Candidate Starts for Kaylissa_50:
(Start: 12 @35202 has 28 MA's), (21, 35388), (23, 35496),

Gene: KeAlii_46 Start: 34316, Stop: 34660, Start Num: 12
Candidate Starts for KeAlii_46:
(Start: 12 @34316 has 28 MA's), (21, 34502),

Gene: Lego_48 Start: 34521, Stop: 34865, Start Num: 12
Candidate Starts for Lego_48:
(Start: 12 @34521 has 28 MA's), (21, 34707),

Gene: Lizalica_48 Start: 34265, Stop: 34609, Start Num: 12
Candidate Starts for Lizalica_48:
(1, 33359), (2, 33488), (3, 33608), (5, 33821), (6, 33863), (Start: 12 @34265 has 28 MA's), (21, 34451), (23, 34559),

Gene: London_46 Start: 35251, Stop: 35553, Start Num: 15
Candidate Starts for London_46:
(Start: 15 @35251 has 14 MA's),

Gene: MissSwiss_50 Start: 33782, Stop: 34084, Start Num: 15
Candidate Starts for MissSwiss_50:
(Start: 15 @33782 has 14 MA's),

Gene: Mudpuppy_45 Start: 34463, Stop: 34807, Start Num: 12
Candidate Starts for Mudpuppy_45:
(Start: 12 @34463 has 28 MA's), (21, 34649),

Gene: Niobe_46 Start: 35254, Stop: 35556, Start Num: 15
Candidate Starts for Niobe_46:
(Start: 15 @35254 has 14 MA's),

Gene: Nitro_48 Start: 35561, Stop: 35905, Start Num: 12
Candidate Starts for Nitro_48:
(Start: 12 @35561 has 28 MA's), (21, 35747),

Gene: PandaPo_50 Start: 33790, Stop: 34092, Start Num: 15
Candidate Starts for PandaPo_50:
(Start: 15 @33790 has 14 MA's),

Gene: Phives_53 Start: 36999, Stop: 37301, Start Num: 15
Candidate Starts for Phives_53:
(11, 36963), (Start: 15 @36999 has 14 MA's), (23, 37251),

Gene: Pixelle_51 Start: 37599, Stop: 37901, Start Num: 15
Candidate Starts for Pixelle_51:
(5, 37155), (6, 37197), (Start: 15 @37599 has 14 MA's),

Gene: Powerpuff_51 Start: 35909, Stop: 36253, Start Num: 12
Candidate Starts for Powerpuff_51:
(Start: 12 @35909 has 28 MA's), (21, 36095),

Gene: Reedo_48 Start: 33265, Stop: 33609, Start Num: 12
Candidate Starts for Reedo_48:
(4, 32752), (8, 32995), (9, 33220), (Start: 12 @33265 has 28 MA's), (21, 33451),

Gene: ReginaGlobina_27 Start: 12135, Stop: 12446, Start Num: 12
Candidate Starts for ReginaGlobina_27:
(Start: 12 @12135 has 28 MA's),

Gene: ReginaGlobina_338 Start: 189582, Stop: 189893, Start Num: 12
Candidate Starts for ReginaGlobina_338:
(Start: 12 @189582 has 28 MA's),

Gene: Rockabye_34 Start: 14936, Stop: 15229, Start Num: 13
Candidate Starts for Rockabye_34:
(13, 14936), (17, 14990), (24, 15221),

Gene: Rockabye_333 Start: 187549, Stop: 187842, Start Num: 13
Candidate Starts for Rockabye_333:
(13, 187549), (17, 187603), (24, 187834),

Gene: Simpson_51 Start: 34815, Stop: 35159, Start Num: 12
Candidate Starts for Simpson_51:
(Start: 12 @34815 has 28 MA's), (21, 35001), (23, 35109),

Gene: Skelbel_47 Start: 35254, Stop: 35556, Start Num: 15
Candidate Starts for Skelbel_47:
(Start: 15 @35254 has 14 MA's),

Gene: Stewart25555_23 Start: 10418, Stop: 10729, Start Num: 12
Candidate Starts for Stewart25555_23:
(Start: 12 @10418 has 28 MA's), (16, 10466),

Gene: Subaru_47 Start: 35250, Stop: 35552, Start Num: 15
Candidate Starts for Subaru_47:
(Start: 15 @35250 has 14 MA's),

Gene: Tallboi_48 Start: 35843, Stop: 36145, Start Num: 15
Candidate Starts for Tallboi_48:
(Start: 15 @35843 has 14 MA's),

Gene: Tbone_49 Start: 35369, Stop: 35713, Start Num: 12
Candidate Starts for Tbone_49:
(Start: 12 @35369 has 28 MA's), (21, 35555),

Gene: Tian_49 Start: 37254, Stop: 37556, Start Num: 15
Candidate Starts for Tian_49:
(Start: 15 @37254 has 14 MA's),

Gene: Tuck_52 Start: 36882, Stop: 37184, Start Num: 15
Candidate Starts for Tuck_52:
(11, 36846), (Start: 15 @36882 has 14 MA's), (23, 37134),

Gene: Turab_46 Start: 33951, Stop: 34253, Start Num: 15
Candidate Starts for Turab_46:
(Start: 15 @33951 has 14 MA's),

Gene: Tutumahutu_50 Start: 34792, Stop: 35136, Start Num: 12
Candidate Starts for Tutumahutu_50:
(Start: 12 @34792 has 28 MA's), (21, 34978),

Gene: VResidence_49 Start: 34157, Stop: 34501, Start Num: 12
Candidate Starts for VResidence_49:
(Start: 12 @34157 has 28 MA's), (21, 34343),

Gene: WaddleDee_314 Start: 188748, Stop: 189059, Start Num: 12
Candidate Starts for WaddleDee_314:
(Start: 12 @188748 has 28 MA's),

Gene: WaddleDee_23 Start: 10553, Stop: 10864, Start Num: 12
Candidate Starts for WaddleDee_23:
(Start: 12 @10553 has 28 MA's),

Gene: Warda_49 Start: 34856, Stop: 35200, Start Num: 12
Candidate Starts for Warda_49:
(Start: 12 @34856 has 28 MA's),

Gene: Wildwest_48 Start: 34842, Stop: 35186, Start Num: 12
Candidate Starts for Wildwest_48:
(Start: 12 @34842 has 28 MA's), (21, 35028), (23, 35136),

Gene: Wollypog_31 Start: 26104, Stop: 26463, Start Num: 12
Candidate Starts for Wollypog_31:
(Start: 12 @26104 has 28 MA's), (18, 26185), (20, 26254), (22, 26335),

Gene: YesChef_49 Start: 34768, Stop: 35112, Start Num: 12
Candidate Starts for YesChef_49:
(Start: 12 @34768 has 28 MA's), (21, 34954),