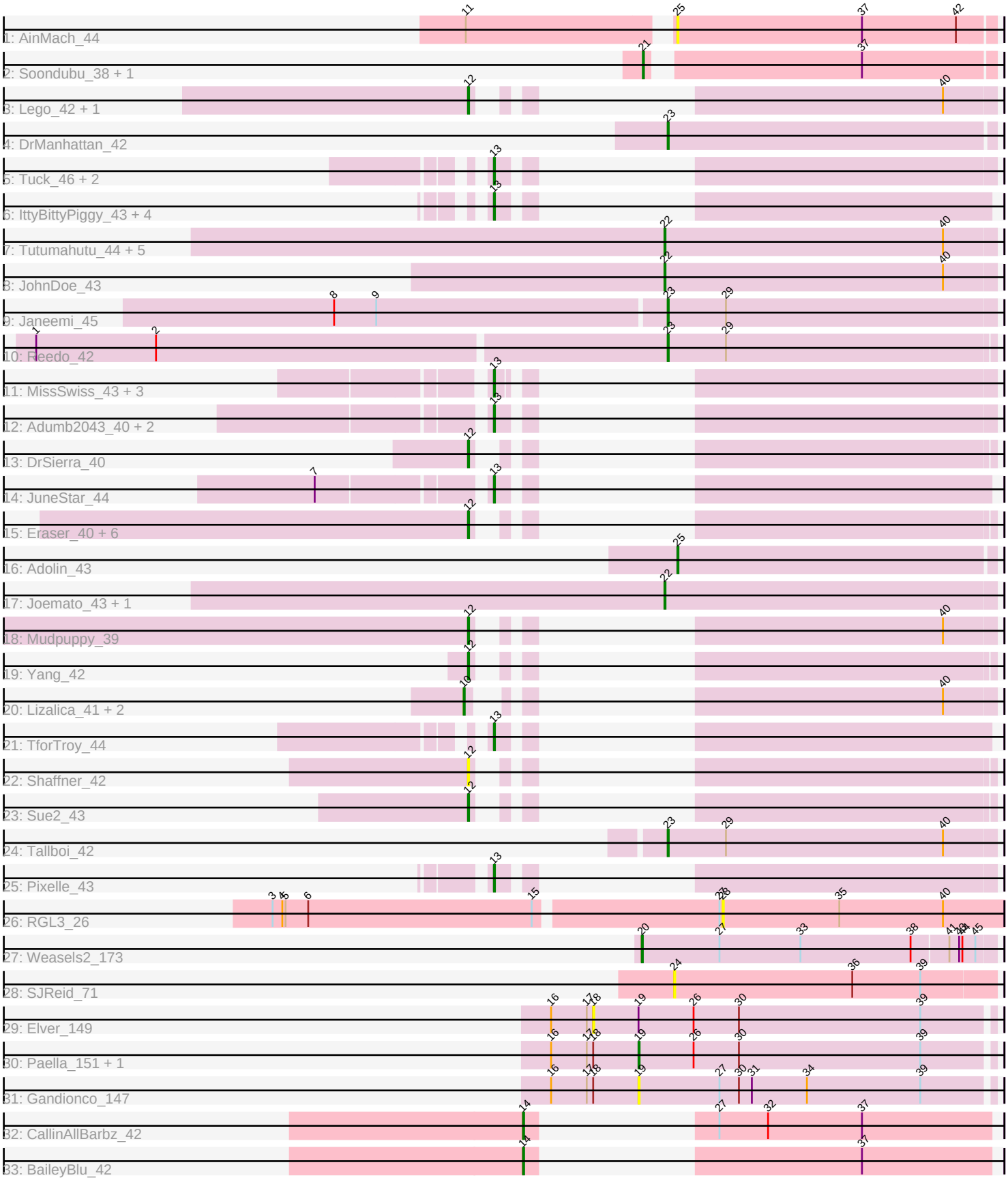
Pham 216174


1: AinMach_44
2: Soondubu_38 + 1
3: Lego_42 + 1
4: DrManhattan_42
5: Tuck_46 + 2
6: IttyBittyPiggy_43 + 4
7: Tutumahutu_44 + 5
8: JohnDoe_43
9: Janeemi_45
10: Reedo_42
11: MissSwiss_43 + 3
12: Adumb2043_40 + 2
13: DrSierra_40
14: JuneStar_44
15: Eraser_40 + 6
16: Adolin_43
17: Joemato_43 + 1
18: Mudpuppy_39
19: Yang_42
20: Lizalica_41 + 2
21: TforTroy_44
22: Shaffner_42
23: Sue2_43
24: Tallboi_42
25: Pixelle_43
26: RGL3_26
27: Weasels2_173
28: SJReid_71
29: Elver_149
30: Paella_151 + 1
31: Gandionco_147
32: CallinAllBarbz_42
33: BaileyBlu_42

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 216174 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216174 has 61 members, 15 are drafts.

Phages represented in each track:
- Track 1 : AinMach_44
- Track 2 : Soondubu_38, Exile_37
- Track 3 : Lego_42, Wildwest_41
- Track 4 : DrManhattan_42
- Track 5 : Tuck_46, Phives_45, Community_45
- Track 6 : IttyBittyPiggy_43, Cassia_42, Crewmate_48, ObiToo_48, Pumpkins_42
- Track 7 : Tutumahutu_44, YesChef_43, AGrandiflora_44, Powerpuff_45, Kaylissa_44, Cyan_43
- Track 8 : JohnDoe_43
- Track 9 : Janeemi_45
- Track 10 : Reedo_42
- Track 11 : MissSwiss_43, Berrie_44, Amyev_42, Tian_41
- Track 12 : Adumb2043_40, AEgle_39, Turab_40
- Track 13 : DrSierra_40
- Track 14 : JuneStar_44
- Track 15 : Eraser_40, Asa16_40, London_40, Subaru_41, Elezi_40, Niobe_40, Jstan_42
- Track 16 : Adolin_43
- Track 17 : Joemato_43, Simpson_45
- Track 18 : Mudpuppy_39
- Track 19 : Yang_42
- Track 20 : Lizalica_41, Tbone_42, Warda_43
- Track 21 : TforTroy_44
- Track 22 : Shaffner_42
- Track 23 : Sue2_43
- Track 24 : Tallboi_42
- Track 25 : Pixelle_43
- Track 26 : RGL3_26
- Track 27 : Weasels2_173
- Track 28 : SJReid_71
- Track 29 : Elver_149
- Track 30 : Paella_151, Qui_151
- Track 31 : Gandionco_147
- Track 32 : CallinAllBarbz_42
- Track 33 : BaileyBlu_42

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

The start number called the most often in the published annotations is 13, it was called in 14 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AEgle_39, Adumb2043_40, Amyev_42, Berrie_44, Cassia_42, Community_45, Crewmate_48, IttyBittyPiggy_43, JuneStar_44, MissSwiss_43, ObiToo_48, Phives_45, Pixelle_43, Pumpkins_42, TforTroy_44, Tian_41, Tuck_46, Turab_40,

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

Genes that do not have the "Most Annotated" start:
• AGrandiflora_44, Adolin_43, AinMach_44, Asa16_40, BaileyBlu_42, CallinAllBarbz_42, Cyan_43, DrManhattan_42, DrSierra_40, Elezi_40, Elver_149, Eraser_40, Exile_37, Gandionco_147, Janeemi_45, Joemato_43, JohnDoe_43, Jstan_42, Kaylissa_44, Lego_42, Lizalica_41, London_40, Mudpuppy_39, Niobe_40, Paella_151, Powerpuff_45, Qui_151, RGL3_26, Reedo_42, SJReid_71, Shaffner_42, Simpson_45, Soondubu_38, Subaru_41, Sue2_43, Tallboi_42, Tbone_42, Tutumahutu_44, Warda_43, Weasels2_173, Wildwest_41, Yang_42, YesChef_43,

Summary by start number:

Start 10:
• Found in 3 of 61 (4.9%) of genes in pham
• Manual Annotations of this start: 3 of 46
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lizalica_41 (AZ1), Tbone_42 (AZ1), Warda_43 (AZ1),

Start 12:
• Found in 14 of 61 (23.0%) of genes in pham
• Manual Annotations of this start: 11 of 46
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Asa16_40 (AZ1), DrSierra_40 (AZ1), Elezi_40 (AZ1), Eraser_40 (AZ1), Jstan_42 (AZ1), Lego_42 (AZ1), London_40 (AZ1), Mudpuppy_39 (AZ1), Niobe_40 (AZ1), Shaffner_42 (AZ1), Subaru_41 (AZ), Sue2_43 (AZ1), Wildwest_41 (AZ1), Yang_42 (AZ1),

Start 13:
• Found in 18 of 61 (29.5%) of genes in pham
• Manual Annotations of this start: 14 of 46
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AEgle_39 (AZ1), Adumb2043_40 (AZ1), Amyev_42 (AZ1), Berrie_44 (AZ1), Cassia_42 (AZ1), Community_45 (AZ1), Crewmate_48 (AZ1), IttyBittyPiggy_43 (AZ1), JuneStar_44 (AZ1), MissSwiss_43 (AZ1), ObiToo_48 (AZ1), Phives_45 (AZ1), Pixelle_43 (AZ1), Pumpkins_42 (AZ1), TforTroy_44 (AZ1), Tian_41 (AZ1), Tuck_46 (AZ1), Turab_40 (AZ1),

Start 14:
• Found in 2 of 61 (3.3%) of genes in pham

• Manual Annotations of this start: 2 of 46
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BaileyBlu_42 (FP), CallinAllBarbz_42 (FP),

Start 18:
• Found in 4 of 61 (6.6%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Elver_149 (FK),

Start 19:
• Found in 4 of 61 (6.6%) of genes in pham
• Manual Annotations of this start: 2 of 46
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Gandionco_147 (FK), Paella_151 (FK), Qui_151 (FK),

Start 20:
• Found in 1 of 61 (1.6%) 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: Weasels2_173 (CB),

Start 21:
• Found in 2 of 61 (3.3%) 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: Exile_37 (AZ), Soondubu_38 (AZ),

Start 22:
• Found in 9 of 61 (14.8%) of genes in pham
• Manual Annotations of this start: 7 of 46
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AGrandiflora_44 (AZ1), Cyan_43 (AZ1), Joemato_43 (AZ1), JohnDoe_43 (AZ1), Kaylissa_44 (AZ1), Powerpuff_45 (AZ1), Simpson_45 (AZ1), Tutumahutu_44 (AZ1), YesChef_43 (AZ1),

Start 23:
• Found in 4 of 61 (6.6%) of genes in pham
• Manual Annotations of this start: 4 of 46
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DrManhattan_42 (AZ1), Janeemi_45 (AZ1), Reedo_42 (AZ1), Tallboi_42 (AZ1),

Start 24:
• Found in 1 of 61 (1.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SJReid_71 (FC),

Start 25:
• Found in 2 of 61 (3.3%) 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: Adolin_43 (AZ1), AinMach_44 (AZ),

Start 28:
• Found in 1 of 61 (1.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RGL3_26 (CA),

Summary by clusters:

There are 7 clusters represented in this pham: FP, AZ, CB, CA, FC, AZ1, FK,

Info for manual annotations of cluster AZ:
•Start number 21 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 10 was manually annotated 3 times for cluster AZ1.
•Start number 12 was manually annotated 11 times for cluster AZ1.
•Start number 13 was manually annotated 14 times for cluster AZ1.
•Start number 22 was manually annotated 7 times for cluster AZ1.
•Start number 23 was manually annotated 4 times for cluster AZ1.
•Start number 25 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster CB:
•Start number 20 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster FK:
•Start number 19 was manually annotated 2 times for cluster FK.

Info for manual annotations of cluster FP:
•Start number 14 was manually annotated 2 times for cluster FP.

Gene Information:

Gene: AEgle_39 Start: 30830, Stop: 31135, Start Num: 13
Candidate Starts for AEgle_39:
(Start: 13 @30830 has 14 MA's),

Gene: AGrandiflora_44 Start: 32113, Stop: 32418, Start Num: 22
Candidate Starts for AGrandiflora_44:
(Start: 22 @32113 has 7 MA's), (40, 32371),

Gene: Adolin_43 Start: 30313, Stop: 30603, Start Num: 25
Candidate Starts for Adolin_43:
(Start: 25 @30313 has 1 MA's),

Gene: Adumb2043_40 Start: 30849, Stop: 31154, Start Num: 13

Candidate Starts for Adumb2043_40:
(Start: 13 @30849 has 14 MA's),

Gene: AinMach_44 Start: 32144, Stop: 32434, Start Num: 25
Candidate Starts for AinMach_44:
(11, 31970), (Start: 25 @32144 has 1 MA's), (37, 32315), (42, 32402),

Gene: Amyev_42 Start: 32403, Stop: 32708, Start Num: 13
Candidate Starts for Amyev_42:
(Start: 13 @32403 has 14 MA's),

Gene: Asa16_40 Start: 32216, Stop: 32518, Start Num: 12
Candidate Starts for Asa16_40:
(Start: 12 @32216 has 11 MA's),

Gene: BaileyBlu_42 Start: 31085, Stop: 31372, Start Num: 14
Candidate Starts for BaileyBlu_42:
(Start: 14 @31085 has 2 MA's), (37, 31253),

Gene: Berrie_44 Start: 32552, Stop: 32857, Start Num: 13
Candidate Starts for Berrie_44:
(Start: 13 @32552 has 14 MA's),

Gene: CallinAllBarbz_42 Start: 31275, Stop: 31562, Start Num: 14
Candidate Starts for CallinAllBarbz_42:
(Start: 14 @31275 has 2 MA's), (27, 31311), (32, 31356), (37, 31443),

Gene: Cassia_42 Start: 31382, Stop: 31684, Start Num: 13
Candidate Starts for Cassia_42:
(Start: 13 @31382 has 14 MA's),

Gene: Community_45 Start: 33365, Stop: 33670, Start Num: 13
Candidate Starts for Community_45:
(Start: 13 @33365 has 14 MA's),

Gene: Crewmate_48 Start: 32056, Stop: 32361, Start Num: 13
Candidate Starts for Crewmate_48:
(Start: 13 @32056 has 14 MA's),

Gene: Cyan_43 Start: 31721, Stop: 32026, Start Num: 22
Candidate Starts for Cyan_43:
(Start: 22 @31721 has 7 MA's), (40, 31979),

Gene: DrManhattan_42 Start: 29870, Stop: 30169, Start Num: 23
Candidate Starts for DrManhattan_42:
(Start: 23 @29870 has 4 MA's),

Gene: DrSierra_40 Start: 29660, Stop: 29962, Start Num: 12
Candidate Starts for DrSierra_40:
(Start: 12 @29660 has 11 MA's),

Gene: Elezi_40 Start: 32213, Stop: 32515, Start Num: 12
Candidate Starts for Elezi_40:

(Start: 12 @32213 has 11 MA's),

Gene: Elver_149 Start: 77420, Stop: 77785, Start Num: 18
Candidate Starts for Elver_149:
(16, 77381), (17, 77414), (18, 77420), (Start: 19 @77462 has 2 MA's), (26, 77513), (30, 77555), (39, 77723),

Gene: Eraser_40 Start: 32223, Stop: 32525, Start Num: 12
Candidate Starts for Eraser_40:
(Start: 12 @32223 has 11 MA's),

Gene: Exile_37 Start: 32718, Stop: 33017, Start Num: 21
Candidate Starts for Exile_37:
(Start: 21 @32718 has 1 MA's), (37, 32898),

Gene: Gandionco_147 Start: 76542, Stop: 76865, Start Num: 19
Candidate Starts for Gandionco_147:
(16, 76461), (17, 76494), (18, 76500), (Start: 19 @76542 has 2 MA's), (27, 76617), (30, 76635), (31, 76647), (34, 76698), (39, 76803),

Gene: IttyBittyPiggy_43 Start: 31175, Stop: 31477, Start Num: 13
Candidate Starts for IttyBittyPiggy_43:
(Start: 13 @31175 has 14 MA's),

Gene: Janeemi_45 Start: 33366, Stop: 33668, Start Num: 23
Candidate Starts for Janeemi_45:
(8, 33063), (9, 33102), (Start: 23 @33366 has 4 MA's), (29, 33420),

Gene: Joemato_43 Start: 31748, Stop: 32053, Start Num: 22
Candidate Starts for Joemato_43:
(Start: 22 @31748 has 7 MA's),

Gene: JohnDoe_43 Start: 31744, Stop: 32049, Start Num: 22
Candidate Starts for JohnDoe_43:
(Start: 22 @31744 has 7 MA's), (40, 32002),

Gene: Jstan_42 Start: 32217, Stop: 32519, Start Num: 12
Candidate Starts for Jstan_42:
(Start: 12 @32217 has 11 MA's),

Gene: JuneStar_44 Start: 33287, Stop: 33589, Start Num: 13
Candidate Starts for JuneStar_44:
(7, 33146), (Start: 13 @33287 has 14 MA's),

Gene: Kaylissa_44 Start: 32134, Stop: 32439, Start Num: 22
Candidate Starts for Kaylissa_44:
(Start: 22 @32134 has 7 MA's), (40, 32392),

Gene: Lego_42 Start: 31451, Stop: 31756, Start Num: 12
Candidate Starts for Lego_42:
(Start: 12 @31451 has 11 MA's), (40, 31709),

Gene: Lizalica_41 Start: 30828, Stop: 31133, Start Num: 10

Candidate Starts for Lizalica_41:
(Start: 10 @30828 has 3 MA's), (40, 31086),

Gene: London_40 Start: 32213, Stop: 32515, Start Num: 12
Candidate Starts for London_40:
(Start: 12 @32213 has 11 MA's),

Gene: MissSwiss_43 Start: 30368, Stop: 30670, Start Num: 13
Candidate Starts for MissSwiss_43:
(Start: 13 @30368 has 14 MA's),

Gene: Mudpuppy_39 Start: 31317, Stop: 31622, Start Num: 12
Candidate Starts for Mudpuppy_39:
(Start: 12 @31317 has 11 MA's), (40, 31575),

Gene: Niobe_40 Start: 32217, Stop: 32519, Start Num: 12
Candidate Starts for Niobe_40:
(Start: 12 @32217 has 11 MA's),

Gene: ObiToo_48 Start: 32499, Stop: 32804, Start Num: 13
Candidate Starts for ObiToo_48:
(Start: 13 @32499 has 14 MA's),

Gene: Paella_151 Start: 78329, Stop: 78652, Start Num: 19
Candidate Starts for Paella_151:
(16, 78248), (17, 78281), (18, 78287), (Start: 19 @78329 has 2 MA's), (26, 78380), (30, 78422), (39, 78590),

Gene: Phives_45 Start: 33193, Stop: 33498, Start Num: 13
Candidate Starts for Phives_45:
(Start: 13 @33193 has 14 MA's),

Gene: Pixelle_43 Start: 32429, Stop: 32734, Start Num: 13
Candidate Starts for Pixelle_43:
(Start: 13 @32429 has 14 MA's),

Gene: Powerpuff_45 Start: 32836, Stop: 33141, Start Num: 22
Candidate Starts for Powerpuff_45:
(Start: 22 @32836 has 7 MA's), (40, 33094),

Gene: Pumpkins_42 Start: 31846, Stop: 32148, Start Num: 13
Candidate Starts for Pumpkins_42:
(Start: 13 @31846 has 14 MA's),

Gene: Qui_151 Start: 78329, Stop: 78652, Start Num: 19
Candidate Starts for Qui_151:
(16, 78248), (17, 78281), (18, 78287), (Start: 19 @78329 has 2 MA's), (26, 78380), (30, 78422), (39, 78590),

Gene: RGL3_26 Start: 23119, Stop: 22859, Start Num: 28
Candidate Starts for RGL3_26:
(3, 23524), (4, 23515), (5, 23512), (6, 23491), (15, 23284), (27, 23122), (28, 23119), (35, 23011), (40, 22915),

Gene: Reedo_42 Start: 29970, Stop: 30269, Start Num: 23
Candidate Starts for Reedo_42:
(1, 29394), (2, 29505), (Start: 23 @29970 has 4 MA's), (29, 30024),

Gene: SJReid_71 Start: 29533, Stop: 29829, Start Num: 24
Candidate Starts for SJReid_71:
(24, 29533), (36, 29698), (39, 29761),

Gene: Shaffner_42 Start: 31902, Stop: 32204, Start Num: 12
Candidate Starts for Shaffner_42:
(Start: 12 @31902 has 11 MA's),

Gene: Simpson_45 Start: 31752, Stop: 32057, Start Num: 22
Candidate Starts for Simpson_45:
(Start: 22 @31752 has 7 MA's),

Gene: Soondubu_38 Start: 32720, Stop: 33019, Start Num: 21
Candidate Starts for Soondubu_38:
(Start: 21 @32720 has 1 MA's), (37, 32900),

Gene: Subaru_41 Start: 32213, Stop: 32515, Start Num: 12
Candidate Starts for Subaru_41:
(Start: 12 @32213 has 11 MA's),

Gene: Sue2_43 Start: 32129, Stop: 32431, Start Num: 12
Candidate Starts for Sue2_43:
(Start: 12 @32129 has 11 MA's),

Gene: Tallboi_42 Start: 32585, Stop: 32887, Start Num: 23
Candidate Starts for Tallboi_42:
(Start: 23 @32585 has 4 MA's), (29, 32639), (40, 32840),

Gene: Tbone_42 Start: 31546, Stop: 31851, Start Num: 10
Candidate Starts for Tbone_42:
(Start: 10 @31546 has 3 MA's), (40, 31804),

Gene: TforTroy_44 Start: 31708, Stop: 32010, Start Num: 13
Candidate Starts for TforTroy_44:
(Start: 13 @31708 has 14 MA's),

Gene: Tian_41 Start: 32403, Stop: 32708, Start Num: 13
Candidate Starts for Tian_41:
(Start: 13 @32403 has 14 MA's),

Gene: Tuck_46 Start: 33745, Stop: 34050, Start Num: 13
Candidate Starts for Tuck_46:
(Start: 13 @33745 has 14 MA's),

Gene: Turab_40 Start: 30849, Stop: 31154, Start Num: 13
Candidate Starts for Turab_40:
(Start: 13 @30849 has 14 MA's),

Gene: Tutumahutu_44 Start: 31719, Stop: 32024, Start Num: 22
Candidate Starts for Tutumahutu_44:
(Start: 22 @31719 has 7 MA's), (40, 31977),

Gene: Warda_43 Start: 31722, Stop: 32027, Start Num: 10
Candidate Starts for Warda_43:
(Start: 10 @31722 has 3 MA's), (40, 31980),

Gene: Weasels2_173 Start: 95400, Stop: 95723, Start Num: 20
Candidate Starts for Weasels2_173:
(Start: 20 @95400 has 1 MA's), (27, 95472), (33, 95547), (38, 95649), (41, 95682), (43, 95691), (44, 95694), (45, 95706),

Gene: Wildwest_41 Start: 30980, Stop: 31282, Start Num: 12
Candidate Starts for Wildwest_41:
(Start: 12 @30980 has 11 MA's), (40, 31238),

Gene: Yang_42 Start: 31020, Stop: 31322, Start Num: 12
Candidate Starts for Yang_42:
(Start: 12 @31020 has 11 MA's),

Gene: YesChef_43 Start: 31695, Stop: 32000, Start Num: 22
Candidate Starts for YesChef_43:
(Start: 22 @31695 has 7 MA's), (40, 31953),