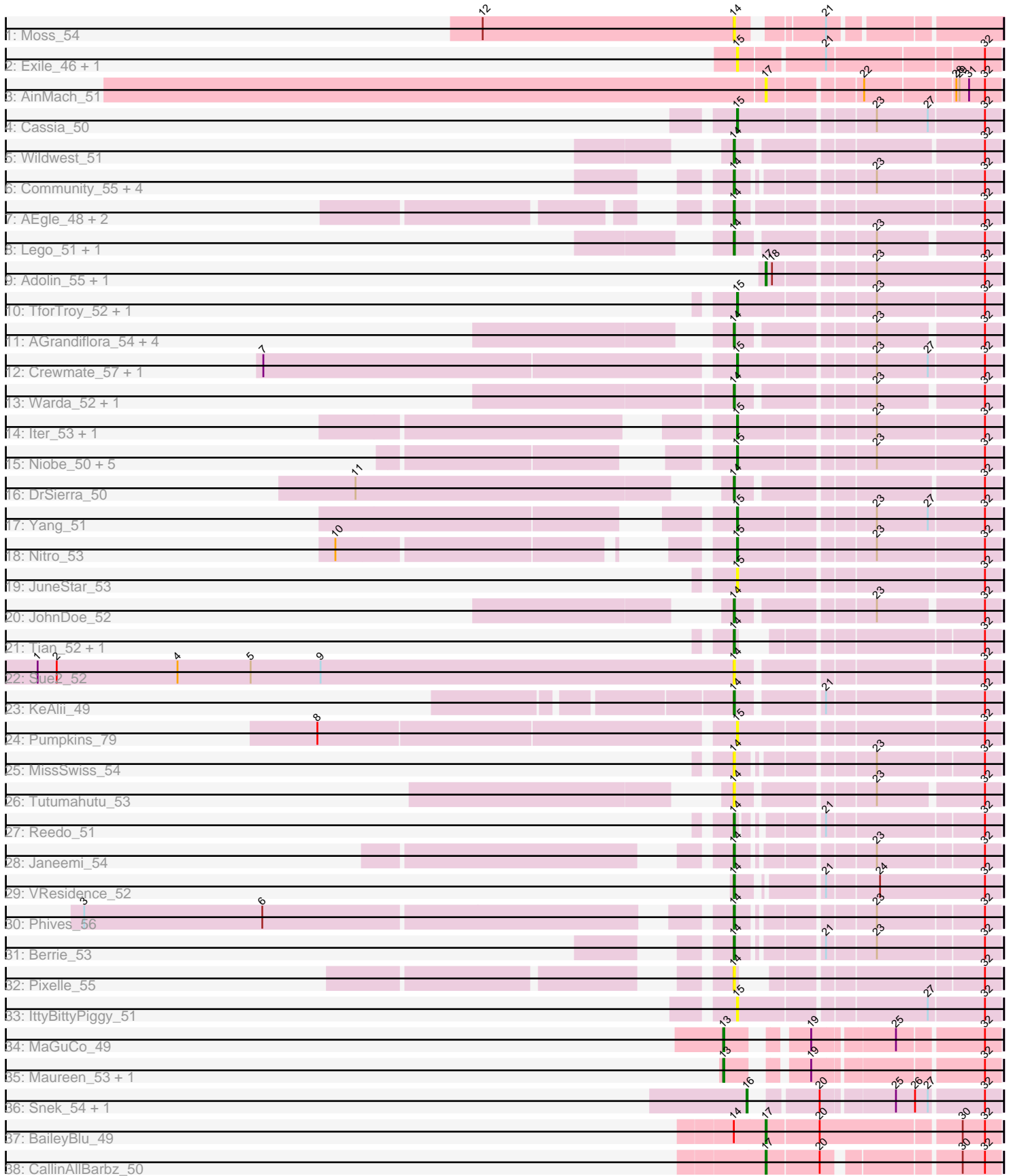


Pham 163610



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 163610 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163610 has 63 members, 22 are drafts.

Phages represented in each track:

- Track 1 : Moss_54
- Track 2 : Exile_46, Soondubu_47
- Track 3 : AinMach_51
- Track 4 : Cassia_50
- Track 5 : Wildwest_51
- Track 6 : Community_55, Mudpuppy_49, Cyan_51, Tuck_55, Lizalica_51
- Track 7 : AEgle_48, Adumb2043_49, Turab_49
- Track 8 : Lego_51, Kaylissa_53
- Track 9 : Adolin_55, DrManhattan_54
- Track 10 : TforTroy_52, Tallboi_53
- Track 11 : AGrandiflora_54, YesChef_52, Simpson_54, Joemato_54, Powerpuff_54
- Track 12 : Crewmate_57, ObiToo_56
- Track 13 : Warda_52, Tbone_52
- Track 14 : Iter_53, Ascela_53
- Track 15 : Niobe_50, Jstan_52, Elezi_50, Asa16_50, Eraser_50, London_50
- Track 16 : DrSierra_50
- Track 17 : Yang_51
- Track 18 : Nitro_53
- Track 19 : JuneStar_53
- Track 20 : JohnDoe_52
- Track 21 : Tian_52, Amyev_53
- Track 22 : Sue2_52
- Track 23 : KeAlii_49
- Track 24 : Pumpkins_79
- Track 25 : MissSwiss_54
- Track 26 : Tutumahutu_53
- Track 27 : Reedo_51
- Track 28 : Janeemi_54
- Track 29 : VResidence_52
- Track 30 : Phives_56
- Track 31 : Berrie_53
- Track 32 : Pixelle_55
- Track 33 : IttyBittyPiggy_51
- Track 34 : MaGuCo_49
- Track 35 : Maureen_53, Liebe_53
- Track 36 : Snek_54, Tweety19_55
- Track 37 : BaileyBlu_49

- Track 38 : CallinAllBarbz_50

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

The start number called the most often in the published annotations is 14, it was called in 19 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AEgle_48, AGrandiflora_54, Adumb2043_49, Amyev_53, Berrie_53, Community_55, Cyan_51, DrSierra_50, Janeemi_54, Joemato_54, JohnDoe_52, Kaylissa_53, KeAlii_49, Lego_51, Lizalica_51, MissSwiss_54, Moss_54, Mudpuppy_49, Phives_56, Pixelle_55, Powerpuff_54, Reedo_51, Simpson_54, Sue2_52, Tbone_52, Tian_52, Tuck_55, Turab_49, Tutumahutu_53, VResidence_52, Warda_52, Wildwest_51, YesChef_52,

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

- BaileyBlu_49,

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

- Adolin_55, AinMach_51, Asa16_50, Ascela_53, CallinAllBarbz_50, Cassia_50, Crewmate_57, DrManhattan_54, Elezi_50, Eraser_50, Exile_46, Iter_53, IttyBittyPiggy_51, Jstan_52, JuneStar_53, Liebe_53, London_50, MaGuCo_49, Maureen_53, Niobe_50, Nitro_53, ObiToo_56, Pumpkins_79, Snek_54, Soondubu_47, Tallboi_53, TforTroy_52, Tweety19_55, Yang_51,

Summary by start number:

Start 13:

- Found in 3 of 63 (4.8%) of genes in pham
- Manual Annotations of this start: 3 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Liebe_53 (AZ2), MaGuCo_49 (AZ2), Maureen_53 (AZ2),

Start 14:

- Found in 34 of 63 (54.0%) of genes in pham
- Manual Annotations of this start: 19 of 41
- Called 97.1% of time when present
- Phage (with cluster) where this start called: AEgle_48 (AZ1), AGrandiflora_54 (AZ1), Adumb2043_49 (AZ1), Amyev_53 (AZ1), Berrie_53 (AZ1), Community_55 (AZ1), Cyan_51 (AZ1), DrSierra_50 (AZ1), Janeemi_54 (AZ1), Joemato_54 (AZ1), JohnDoe_52 (AZ1), Kaylissa_53 (AZ1), KeAlii_49 (AZ1), Lego_51 (AZ1), Lizalica_51 (AZ1), MissSwiss_54 (AZ1), Moss_54 (AZ), Mudpuppy_49 (AZ1), Phives_56 (AZ1), Pixelle_55 (AZ1), Powerpuff_54 (AZ1), Reedo_51 (AZ1), Simpson_54 (AZ1), Sue2_52 (AZ1), Tbone_52 (AZ1), Tian_52 (AZ1), Tuck_55 (AZ1), Turab_49 (AZ1), Tutumahutu_53 (AZ1), VResidence_52 (AZ1), Warda_52 (AZ1), Wildwest_51 (AZ1), YesChef_52 (AZ1),

Start 15:

- Found in 20 of 63 (31.7%) of genes in pham

- Manual Annotations of this start: 13 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Asa16_50 (AZ1), Ascela_53 (AZ1), Cassia_50 (AZ1), Crewmate_57 (AZ1), Elezi_50 (AZ1), Eraser_50 (AZ1), Exile_46 (AZ), Iter_53 (AZ1), IttyBittyPiggy_51 (AZ1), Jstan_52 (AZ1), JuneStar_53 (AZ1), London_50 (AZ1), Niobe_50 (AZ1), Nitro_53 (AZ1), ObiToo_56 (AZ1), Pumpkins_79 (AZ1), Soondubu_47 (AZ), Tallboi_53 (AZ1), TforTroy_52 (AZ1), Yang_51 (AZ1),

Start 16:

- Found in 2 of 63 (3.2%) of genes in pham
- Manual Annotations of this start: 2 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Snek_54 (AZ3), Tweety19_55 (AZ3),

Start 17:

- Found in 5 of 63 (7.9%) of genes in pham
- Manual Annotations of this start: 4 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adolin_55 (AZ1), AinMach_51 (AZ), BaileyBlu_49 (FP), CallinAllBarbz_50 (FP), DrManhattan_54 (AZ1),

Summary by clusters:

There are 5 clusters represented in this pham: FP, AZ1, AZ2, AZ3, AZ,

Info for manual annotations of cluster AZ1:

- Start number 14 was manually annotated 19 times for cluster AZ1.
- Start number 15 was manually annotated 13 times for cluster AZ1.
- Start number 17 was manually annotated 2 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 13 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 16 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster FP:

- Start number 17 was manually annotated 2 times for cluster FP.

Gene Information:

Gene: AEgle_48 Start: 36313, Stop: 36537, Start Num: 14

Candidate Starts for AEgle_48:

(Start: 14 @36313 has 19 MA's), (32, 36523),

Gene: AGrandiflora_54 Start: 37650, Stop: 37871, Start Num: 14

Candidate Starts for AGrandiflora_54:

(Start: 14 @37650 has 19 MA's), (23, 37764), (32, 37857),

Gene: Adolin_55 Start: 36749, Stop: 36955, Start Num: 17

Candidate Starts for Adolin_55:

(Start: 17 @36749 has 4 MA's), (18, 36755), (23, 36839), (32, 36941),

Gene: Adumb2043_49 Start: 36334, Stop: 36558, Start Num: 14

Candidate Starts for Adumb2043_49:

(Start: 14 @36334 has 19 MA's), (32, 36544),

Gene: AinMach_51 Start: 36840, Stop: 37037, Start Num: 17

Candidate Starts for AinMach_51:

(Start: 17 @36840 has 4 MA's), (22, 36918), (28, 36996), (29, 36999), (31, 37008), (32, 37023),

Gene: Amyev_53 Start: 39795, Stop: 39995, Start Num: 14

Candidate Starts for Amyev_53:

(Start: 14 @39795 has 19 MA's), (32, 39981),

Gene: Asa16_50 Start: 37882, Stop: 38112, Start Num: 15

Candidate Starts for Asa16_50:

(Start: 15 @37882 has 13 MA's), (23, 37999), (32, 38098),

Gene: Ascela_53 Start: 37957, Stop: 38187, Start Num: 15

Candidate Starts for Ascela_53:

(Start: 15 @37957 has 13 MA's), (23, 38074), (32, 38173),

Gene: BaileyBlu_49 Start: 35978, Stop: 36187, Start Num: 17

Candidate Starts for BaileyBlu_49:

(Start: 14 @35963 has 19 MA's), (Start: 17 @35978 has 4 MA's), (20, 36026), (30, 36152), (32, 36173),

Gene: Berrie_53 Start: 38048, Stop: 38266, Start Num: 14

Candidate Starts for Berrie_53:

(Start: 14 @38048 has 19 MA's), (21, 38114), (23, 38156), (32, 38252),

Gene: CallinAllBarbz_50 Start: 36450, Stop: 36644, Start Num: 17

Candidate Starts for CallinAllBarbz_50:

(Start: 17 @36450 has 4 MA's), (20, 36498), (30, 36609), (32, 36630),

Gene: Cassia_50 Start: 37073, Stop: 37303, Start Num: 15

Candidate Starts for Cassia_50:

(Start: 15 @37073 has 13 MA's), (23, 37190), (27, 37238), (32, 37289),

Gene: Community_55 Start: 39440, Stop: 39658, Start Num: 14

Candidate Starts for Community_55:

(Start: 14 @39440 has 19 MA's), (23, 39548), (32, 39644),

Gene: Crewmate_57 Start: 38837, Stop: 39067, Start Num: 15

Candidate Starts for Crewmate_57:

(7, 38405), (Start: 15 @38837 has 13 MA's), (23, 38954), (27, 39002), (32, 39053),

Gene: Cyan_51 Start: 37207, Stop: 37428, Start Num: 14

Candidate Starts for Cyan_51:

(Start: 14 @37207 has 19 MA's), (23, 37321), (32, 37414),

Gene: DrManhattan_54 Start: 36317, Stop: 36523, Start Num: 17

Candidate Starts for DrManhattan_54:
(Start: 17 @36317 has 4 MA's), (18, 36323), (23, 36407), (32, 36509),

Gene: DrSierra_50 Start: 36034, Stop: 36258, Start Num: 14
Candidate Starts for DrSierra_50:
(11, 35728), (Start: 14 @36034 has 19 MA's), (32, 36244),

Gene: Elezi_50 Start: 37880, Stop: 38110, Start Num: 15
Candidate Starts for Elezi_50:
(Start: 15 @37880 has 13 MA's), (23, 37997), (32, 38096),

Gene: Eraser_50 Start: 37889, Stop: 38119, Start Num: 15
Candidate Starts for Eraser_50:
(Start: 15 @37889 has 13 MA's), (23, 38006), (32, 38105),

Gene: Exile_46 Start: 39253, Stop: 39480, Start Num: 15
Candidate Starts for Exile_46:
(Start: 15 @39253 has 13 MA's), (21, 39328), (32, 39466),

Gene: Iter_53 Start: 37949, Stop: 38179, Start Num: 15
Candidate Starts for Iter_53:
(Start: 15 @37949 has 13 MA's), (23, 38066), (32, 38165),

Gene: IttyBittyPiggy_51 Start: 36661, Stop: 36891, Start Num: 15
Candidate Starts for IttyBittyPiggy_51:
(Start: 15 @36661 has 13 MA's), (27, 36826), (32, 36877),

Gene: Janeemi_54 Start: 38904, Stop: 39122, Start Num: 14
Candidate Starts for Janeemi_54:
(Start: 14 @38904 has 19 MA's), (23, 39012), (32, 39108),

Gene: Joemato_54 Start: 37287, Stop: 37508, Start Num: 14
Candidate Starts for Joemato_54:
(Start: 14 @37287 has 19 MA's), (23, 37401), (32, 37494),

Gene: JohnDoe_52 Start: 37271, Stop: 37492, Start Num: 14
Candidate Starts for JohnDoe_52:
(Start: 14 @37271 has 19 MA's), (23, 37385), (32, 37478),

Gene: Jstan_52 Start: 37884, Stop: 38114, Start Num: 15
Candidate Starts for Jstan_52:
(Start: 15 @37884 has 13 MA's), (23, 38001), (32, 38100),

Gene: JuneStar_53 Start: 40003, Stop: 40233, Start Num: 15
Candidate Starts for JuneStar_53:
(Start: 15 @40003 has 13 MA's), (32, 40219),

Gene: Kaylissa_53 Start: 37666, Stop: 37887, Start Num: 14
Candidate Starts for Kaylissa_53:
(Start: 14 @37666 has 19 MA's), (23, 37780), (32, 37873),

Gene: KeAlii_49 Start: 36858, Stop: 37082, Start Num: 14
Candidate Starts for KeAlii_49:

(Start: 14 @36858 has 19 MA's), (21, 36930), (32, 37068),

Gene: Lego_51 Start: 36986, Stop: 37207, Start Num: 14

Candidate Starts for Lego_51:

(Start: 14 @36986 has 19 MA's), (23, 37100), (32, 37193),

Gene: Liebe_53 Start: 39401, Stop: 39613, Start Num: 13

Candidate Starts for Liebe_53:

(Start: 13 @39401 has 3 MA's), (19, 39455), (32, 39599),

Gene: Lizalica_51 Start: 36731, Stop: 36952, Start Num: 14

Candidate Starts for Lizalica_51:

(Start: 14 @36731 has 19 MA's), (23, 36845), (32, 36938),

Gene: London_50 Start: 37880, Stop: 38110, Start Num: 15

Candidate Starts for London_50:

(Start: 15 @37880 has 13 MA's), (23, 37997), (32, 38096),

Gene: MaGuCo_49 Start: 38092, Stop: 38304, Start Num: 13

Candidate Starts for MaGuCo_49:

(Start: 13 @38092 has 3 MA's), (19, 38146), (25, 38215), (32, 38290),

Gene: Maureen_53 Start: 39400, Stop: 39612, Start Num: 13

Candidate Starts for Maureen_53:

(Start: 13 @39400 has 3 MA's), (19, 39454), (32, 39598),

Gene: MissSwiss_54 Start: 36480, Stop: 36698, Start Num: 14

Candidate Starts for MissSwiss_54:

(Start: 14 @36480 has 19 MA's), (23, 36588), (32, 36684),

Gene: Moss_54 Start: 33397, Stop: 33609, Start Num: 14

Candidate Starts for Moss_54:

(12, 33160), (Start: 14 @33397 has 19 MA's), (21, 33463),

Gene: Mudpuppy_49 Start: 36915, Stop: 37136, Start Num: 14

Candidate Starts for Mudpuppy_49:

(Start: 14 @36915 has 19 MA's), (23, 37029), (32, 37122),

Gene: Niobe_50 Start: 37883, Stop: 38113, Start Num: 15

Candidate Starts for Niobe_50:

(Start: 15 @37883 has 13 MA's), (23, 38000), (32, 38099),

Gene: Nitro_53 Start: 38988, Stop: 39218, Start Num: 15

Candidate Starts for Nitro_53:

(10, 38691), (Start: 15 @38988 has 13 MA's), (23, 39105), (32, 39204),

Gene: ObiToo_56 Start: 38231, Stop: 38461, Start Num: 15

Candidate Starts for ObiToo_56:

(7, 37799), (Start: 15 @38231 has 13 MA's), (23, 38348), (27, 38396), (32, 38447),

Gene: Phives_56 Start: 39558, Stop: 39776, Start Num: 14

Candidate Starts for Phives_56:

(3, 38994), (6, 39162), (Start: 14 @39558 has 19 MA's), (23, 39666), (32, 39762),

Gene: Pixelle_55 Start: 40140, Stop: 40340, Start Num: 14

Candidate Starts for Pixelle_55:

(Start: 14 @40140 has 19 MA's), (32, 40326),

Gene: Powerpuff_54 Start: 38373, Stop: 38594, Start Num: 14

Candidate Starts for Powerpuff_54:

(Start: 14 @38373 has 19 MA's), (23, 38487), (32, 38580),

Gene: Pumpkins_79 Start: 37746, Stop: 37976, Start Num: 15

Candidate Starts for Pumpkins_79:

(8, 37368), (Start: 15 @37746 has 13 MA's), (32, 37962),

Gene: Reedo_51 Start: 35724, Stop: 35936, Start Num: 14

Candidate Starts for Reedo_51:

(Start: 14 @35724 has 19 MA's), (21, 35784), (32, 35922),

Gene: Simpson_54 Start: 37291, Stop: 37512, Start Num: 14

Candidate Starts for Simpson_54:

(Start: 14 @37291 has 19 MA's), (23, 37405), (32, 37498),

Gene: Snek_54 Start: 36857, Stop: 37057, Start Num: 16

Candidate Starts for Snek_54:

(Start: 16 @36857 has 2 MA's), (20, 36902), (25, 36965), (26, 36983), (27, 36995), (32, 37043),

Gene: Soondubu_47 Start: 39736, Stop: 39963, Start Num: 15

Candidate Starts for Soondubu_47:

(Start: 15 @39736 has 13 MA's), (21, 39811), (32, 39949),

Gene: Sue2_52 Start: 37060, Stop: 37284, Start Num: 14

Candidate Starts for Sue2_52:

(1, 36403), (2, 36421), (4, 36535), (5, 36604), (9, 36670), (Start: 14 @37060 has 19 MA's), (32, 37270),

Gene: Tallboi_53 Start: 38238, Stop: 38468, Start Num: 15

Candidate Starts for Tallboi_53:

(Start: 15 @38238 has 13 MA's), (23, 38355), (32, 38454),

Gene: Tbone_52 Start: 37857, Stop: 38078, Start Num: 14

Candidate Starts for Tbone_52:

(Start: 14 @37857 has 19 MA's), (23, 37971), (32, 38064),

Gene: TforTroy_52 Start: 37603, Stop: 37833, Start Num: 15

Candidate Starts for TforTroy_52:

(Start: 15 @37603 has 13 MA's), (23, 37720), (32, 37819),

Gene: Tian_52 Start: 39795, Stop: 39995, Start Num: 14

Candidate Starts for Tian_52:

(Start: 14 @39795 has 19 MA's), (32, 39981),

Gene: Tuck_55 Start: 39348, Stop: 39566, Start Num: 14

Candidate Starts for Tuck_55:

(Start: 14 @39348 has 19 MA's), (23, 39456), (32, 39552),

Gene: Turab_49 Start: 36357, Stop: 36581, Start Num: 14

Candidate Starts for Turab_49:

(Start: 14 @36357 has 19 MA's), (32, 36567),

Gene: Tutumahutu_53 Start: 37244, Stop: 37465, Start Num: 14

Candidate Starts for Tutumahutu_53:

(Start: 14 @37244 has 19 MA's), (23, 37358), (32, 37451),

Gene: Tweety19_55 Start: 36857, Stop: 37057, Start Num: 16

Candidate Starts for Tweety19_55:

(Start: 16 @36857 has 2 MA's), (20, 36902), (25, 36965), (26, 36983), (27, 36995), (32, 37043),

Gene: VResidence_52 Start: 36790, Stop: 37014, Start Num: 14

Candidate Starts for VResidence_52:

(Start: 14 @36790 has 19 MA's), (21, 36856), (24, 36901), (32, 37000),

Gene: Warda_52 Start: 37355, Stop: 37576, Start Num: 14

Candidate Starts for Warda_52:

(Start: 14 @37355 has 19 MA's), (23, 37469), (32, 37562),

Gene: Wildwest_51 Start: 37289, Stop: 37513, Start Num: 14

Candidate Starts for Wildwest_51:

(Start: 14 @37289 has 19 MA's), (32, 37499),

Gene: Yang_51 Start: 37412, Stop: 37642, Start Num: 15

Candidate Starts for Yang_51:

(Start: 15 @37412 has 13 MA's), (23, 37529), (27, 37577), (32, 37628),

Gene: YesChef_52 Start: 37232, Stop: 37453, Start Num: 14

Candidate Starts for YesChef_52:

(Start: 14 @37232 has 19 MA's), (23, 37346), (32, 37439),