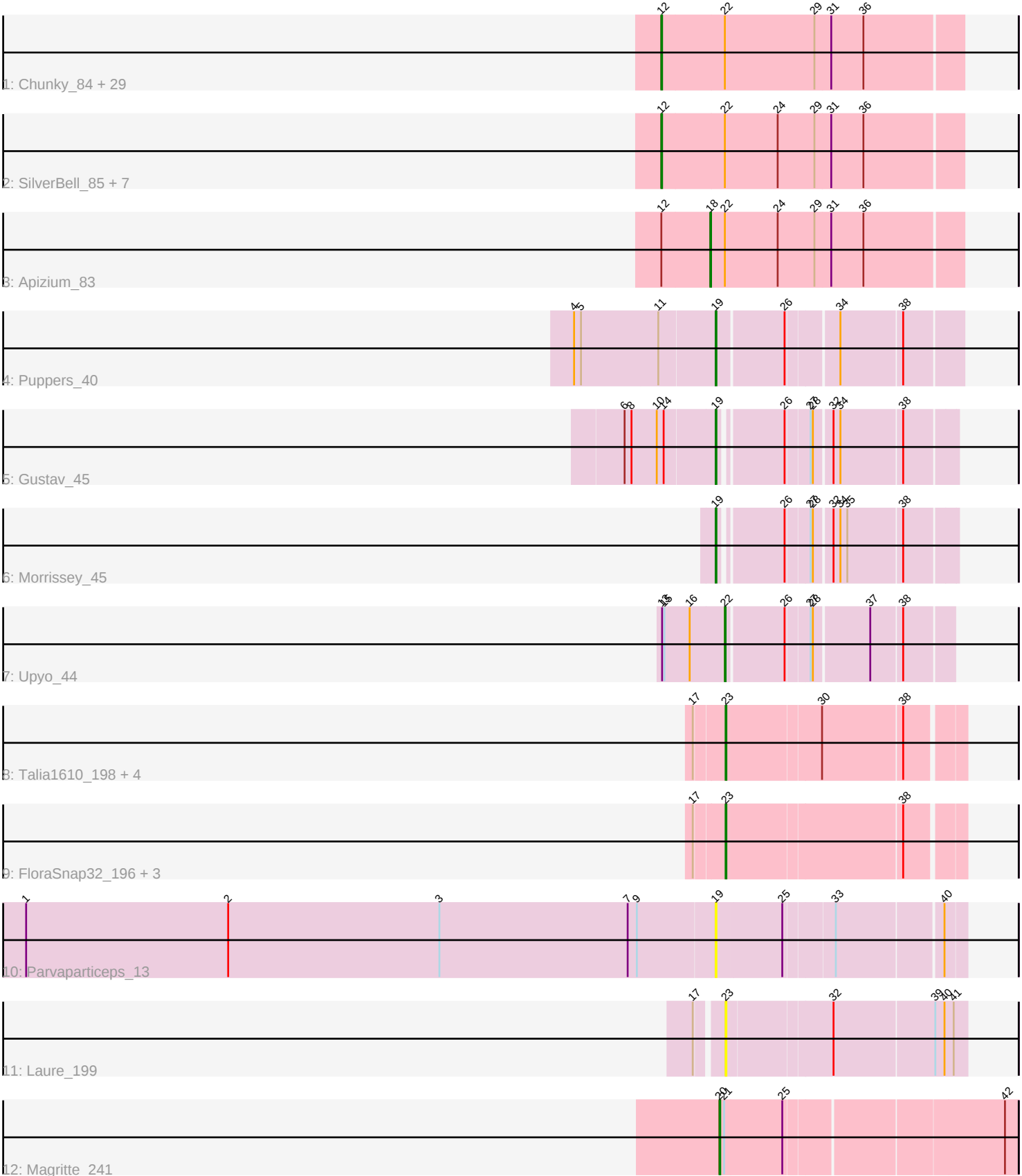


Pham 330915



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 330915 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330915 has 55 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Chunky_84, Eremos_83, Morgushi_82, Derpp_84, UncleHowie_81, Suffolk_81, Zonia_85, Orion_83, LeeLot_83, Serendipity_84, FriarPreacher_82, Larson_86, CheetO_81, Lulumae_81, Murdoc_81, Gwilliam_85, Pops_82, Newman_82, Roy17_82, Trypo_85, Xavier_84, PG1_83, Puhltonio_81, Nacho_0087, Hertubise_84, Toni_84, Mosaic_82, Vectra_83, Mesh1_85, Vortex_83
- Track 2 : SilverBell_85, Hartsy_83, PhrankReynolds_83, PhatCats2014_84, Sigman_84, DuchessDung_82, Doddsville_82, EmGer13_84
- Track 3 : Apizium_83
- Track 4 : Puppies_40
- Track 5 : Gustav_45
- Track 6 : Morrissey_45
- Track 7 : Upyo_44
- Track 8 : Talia1610_198, Racecar_198, FrostedClock_200, Bloom_201, Mimi_197
- Track 9 : FloraSnap32_196, Phrampa_190, GoldenEssence_185, Patbob_195
- Track 10 : Parvaparticeps_13
- Track 11 : Laure_199
- Track 12 : Magritte_241

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 34 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CheetO_81, Chunky_84, Derpp_84, Doddsville_82, DuchessDung_82, EmGer13_84, Eremos_83, FriarPreacher_82, Gwilliam_85, Hartsy_83, Hertubise_84, Larson_86, LeeLot_83, Lulumae_81, Mesh1_85, Morgushi_82, Mosaic_82, Murdoc_81, Nacho_0087, Newman_82, Orion_83, PG1_83, PhatCats2014_84, PhrankReynolds_83, Pops_82, Puhltonio_81, Roy17_82, Serendipity_84, Sigman_84, SilverBell_85, Suffolk_81, Toni_84, Trypo_85, UncleHowie_81, Vectra_83, Vortex_83, Xavier_84, Zonia_85,

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

- Apizium_83,

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

• Bloom_201, FloraSnap32_196, FrostedClock_200, GoldenEssence_185, Gustav_45, Laure_199, Magritte_241, Mimi_197, Morrissey_45, Parvuparticeps_13, Patbob_195, Phrampa_190, Puppies_40, Racecar_198, Talia1610_198, Upyo_44,

Summary by start number:

Start 12:

- Found in 39 of 55 (70.9%) of genes in pham
- Manual Annotations of this start: 34 of 46
- Called 97.4% of time when present
- Phage (with cluster) where this start called: CheetO_81 (B1), Chunky_84 (B1), Derpp_84 (B1), Doddsville_82 (B1), DuchessDung_82 (B1), EmGer13_84 (B1), Eremos_83 (B1), FriarPreacher_82 (B1), Gwilliam_85 (B1), Hartsy_83 (B1), Hertubise_84 (B1), Larson_86 (B1), LeeLot_83 (B1), Lulumae_81 (B1), Mesh1_85 (B1), Morgushi_82 (B1), Mosaic_82 (B1), Murdoc_81 (B1), Nacho_0087 (B1), Newman_82 (B1), Orion_83 (B1), PG1_83 (B1), PhatCats2014_84 (B1), PhrankReynolds_83 (B1), Pops_82 (B1), Puhltonio_81 (B1), Roy17_82 (B1), Serendipity_84 (B1), Sigman_84 (B1), SilverBell_85 (B1), Suffolk_81 (B1), Toni_84 (B1), Trypo_85 (B1), UncleHowie_81 (B1), Vectra_83 (B1), Vortex_83 (B1), Xavier_84 (B1), Zonia_85 (B1),

Start 18:

- Found in 1 of 55 (1.8%) 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: Apizium_83 (B1),

Start 19:

- Found in 4 of 55 (7.3%) 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: Gustav_45 (CD), Morrissey_45 (CD), Parvuparticeps_13 (UNK), Puppies_40 (CD),

Start 20:

- Found in 1 of 55 (1.8%) 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: Magritte_241 (singleton),

Start 22:

- Found in 40 of 55 (72.7%) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 2.5% of time when present
- Phage (with cluster) where this start called: Upyo_44 (CD),

Start 23:

- Found in 10 of 55 (18.2%) of genes in pham
- Manual Annotations of this start: 6 of 46
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Bloom_201 (FC), FloraSnap32_196 (FC), FrostedClock_200 (FC), GoldenEssence_185 (FC), Laure_199 (UNK), Mimi_197 (FC), Patbob_195 (FC), Phrampa_190 (FC), Racecar_198 (FC), Talia1610_198 (FC),

Summary by clusters:

There are 5 clusters represented in this pham: FC, singleton, UNK, B1, CD,

Info for manual annotations of cluster B1:

- Start number 12 was manually annotated 34 times for cluster B1.
- Start number 18 was manually annotated 1 time for cluster B1.

Info for manual annotations of cluster CD:

- Start number 19 was manually annotated 3 times for cluster CD.
- Start number 22 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster FC:

- Start number 23 was manually annotated 6 times for cluster FC.

Gene Information:

Gene: Apizium_83 Start: 62557, Stop: 62237, Start Num: 18

Candidate Starts for Apizium_83:

(Start: 12 @62620 has 34 MA's), (Start: 18 @62557 has 1 MA's), (Start: 22 @62539 has 1 MA's), (24, 62470), (29, 62422), (31, 62401), (36, 62362),

Gene: Bloom_201 Start: 137606, Stop: 137896, Start Num: 23

Candidate Starts for Bloom_201:

(17, 137570), (Start: 23 @137606 has 6 MA's), (30, 137723), (38, 137825),

Gene: CheetO_81 Start: 63368, Stop: 62985, Start Num: 12

Candidate Starts for CheetO_81:

(Start: 12 @63368 has 34 MA's), (Start: 22 @63287 has 1 MA's), (29, 63170), (31, 63149), (36, 63110),

Gene: Chunky_84 Start: 62964, Stop: 62581, Start Num: 12

Candidate Starts for Chunky_84:

(Start: 12 @62964 has 34 MA's), (Start: 22 @62883 has 1 MA's), (29, 62766), (31, 62745), (36, 62706),

Gene: Derpp_84 Start: 63027, Stop: 62644, Start Num: 12

Candidate Starts for Derpp_84:

(Start: 12 @63027 has 34 MA's), (Start: 22 @62946 has 1 MA's), (29, 62829), (31, 62808), (36, 62769),

Gene: Doddsville_82 Start: 63109, Stop: 62726, Start Num: 12

Candidate Starts for Doddsville_82:

(Start: 12 @63109 has 34 MA's), (Start: 22 @63028 has 1 MA's), (24, 62959), (29, 62911), (31, 62890), (36, 62851),

Gene: DuchessDung_82 Start: 62625, Stop: 62242, Start Num: 12

Candidate Starts for DuchessDung_82:

(Start: 12 @62625 has 34 MA's), (Start: 22 @62544 has 1 MA's), (24, 62475), (29, 62427), (31, 62406), (36, 62367),

Gene: EmGer13_84 Start: 62964, Stop: 62581, Start Num: 12

Candidate Starts for EmGer13_84:

(Start: 12 @62964 has 34 MA's), (Start: 22 @62883 has 1 MA's), (24, 62814), (29, 62766), (31, 62745), (36, 62706),

Gene: Eremos_83 Start: 63331, Stop: 62948, Start Num: 12

Candidate Starts for Eremos_83:

(Start: 12 @63331 has 34 MA's), (Start: 22 @63250 has 1 MA's), (29, 63133), (31, 63112), (36, 63073),

Gene: FloraSnap32_196 Start: 136494, Stop: 136784, Start Num: 23

Candidate Starts for FloraSnap32_196:

(17, 136458), (Start: 23 @136494 has 6 MA's), (38, 136713),

Gene: FriarPreacher_82 Start: 63028, Stop: 62645, Start Num: 12

Candidate Starts for FriarPreacher_82:

(Start: 12 @63028 has 34 MA's), (Start: 22 @62947 has 1 MA's), (29, 62830), (31, 62809), (36, 62770),

Gene: FrostedClock_200 Start: 137527, Stop: 137817, Start Num: 23

Candidate Starts for FrostedClock_200:

(17, 137491), (Start: 23 @137527 has 6 MA's), (30, 137644), (38, 137746),

Gene: GoldenEssence_185 Start: 131868, Stop: 132158, Start Num: 23

Candidate Starts for GoldenEssence_185:

(17, 131832), (Start: 23 @131868 has 6 MA's), (38, 132087),

Gene: Gustav_45 Start: 33684, Stop: 33406, Start Num: 19

Candidate Starts for Gustav_45:

(6, 33798), (8, 33789), (10, 33756), (14, 33747), (Start: 19 @33684 has 3 MA's), (26, 33609), (27, 33582), (28, 33579), (32, 33558), (34, 33549), (38, 33471),

Gene: Gwilliam_85 Start: 64012, Stop: 63629, Start Num: 12

Candidate Starts for Gwilliam_85:

(Start: 12 @64012 has 34 MA's), (Start: 22 @63931 has 1 MA's), (29, 63814), (31, 63793), (36, 63754),

Gene: Hartsy_83 Start: 63145, Stop: 62762, Start Num: 12

Candidate Starts for Hartsy_83:

(Start: 12 @63145 has 34 MA's), (Start: 22 @63064 has 1 MA's), (24, 62995), (29, 62947), (31, 62926), (36, 62887),

Gene: Hertubise_84 Start: 63287, Stop: 62904, Start Num: 12

Candidate Starts for Hertubise_84:

(Start: 12 @63287 has 34 MA's), (Start: 22 @63206 has 1 MA's), (29, 63089), (31, 63068), (36, 63029),

Gene: Larson_86 Start: 63291, Stop: 62908, Start Num: 12

Candidate Starts for Larson_86:

(Start: 12 @63291 has 34 MA's), (Start: 22 @63210 has 1 MA's), (29, 63093), (31, 63072), (36, 63033),

Gene: Laure_199 Start: 125992, Stop: 126291, Start Num: 23

Candidate Starts for Laure_199:

(17, 125962), (Start: 23 @125992 has 6 MA's), (32, 126121), (39, 126250), (40, 126262), (41, 126274),

Gene: LeeLot_83 Start: 63532, Stop: 63149, Start Num: 12

Candidate Starts for LeeLot_83:

(Start: 12 @63532 has 34 MA's), (Start: 22 @63451 has 1 MA's), (29, 63334), (31, 63313), (36, 63274),

Gene: Lulumae_81 Start: 62668, Stop: 62285, Start Num: 12

Candidate Starts for Lulumae_81:

(Start: 12 @62668 has 34 MA's), (Start: 22 @62587 has 1 MA's), (29, 62470), (31, 62449), (36, 62410),

Gene: Magritte_241 Start: 125100, Stop: 125468, Start Num: 20

Candidate Starts for Magritte_241:

(Start: 20 @125100 has 1 MA's), (21, 125106), (25, 125181), (42, 125451),

Gene: Mesh1_85 Start: 63667, Stop: 63284, Start Num: 12

Candidate Starts for Mesh1_85:

(Start: 12 @63667 has 34 MA's), (Start: 22 @63586 has 1 MA's), (29, 63469), (31, 63448), (36, 63409),

Gene: Mimi_197 Start: 137277, Stop: 137567, Start Num: 23

Candidate Starts for Mimi_197:

(17, 137241), (Start: 23 @137277 has 6 MA's), (30, 137394), (38, 137496),

Gene: Morgushi_82 Start: 62919, Stop: 62536, Start Num: 12

Candidate Starts for Morgushi_82:

(Start: 12 @62919 has 34 MA's), (Start: 22 @62838 has 1 MA's), (29, 62721), (31, 62700), (36, 62661),

Gene: Morrissey_45 Start: 34634, Stop: 34356, Start Num: 19

Candidate Starts for Morrissey_45:

(Start: 19 @34634 has 3 MA's), (26, 34559), (27, 34532), (28, 34529), (32, 34508), (34, 34499), (35, 34490), (38, 34421),

Gene: Mosaic_82 Start: 63101, Stop: 62718, Start Num: 12

Candidate Starts for Mosaic_82:

(Start: 12 @63101 has 34 MA's), (Start: 22 @63020 has 1 MA's), (29, 62903), (31, 62882), (36, 62843),

Gene: Murdoc_81 Start: 63212, Stop: 62829, Start Num: 12

Candidate Starts for Murdoc_81:

(Start: 12 @63212 has 34 MA's), (Start: 22 @63131 has 1 MA's), (29, 63014), (31, 62993), (36, 62954),

Gene: Nacho_0087 Start: 64177, Stop: 63794, Start Num: 12

Candidate Starts for Nacho_0087:

(Start: 12 @64177 has 34 MA's), (Start: 22 @64096 has 1 MA's), (29, 63979), (31, 63958), (36, 63919),

Gene: Newman_82 Start: 63454, Stop: 63071, Start Num: 12

Candidate Starts for Newman_82:

(Start: 12 @63454 has 34 MA's), (Start: 22 @63373 has 1 MA's), (29, 63256), (31, 63235), (36, 63196),

Gene: Orion_83 Start: 63039, Stop: 62656, Start Num: 12

Candidate Starts for Orion_83:

(Start: 12 @63039 has 34 MA's), (Start: 22 @62958 has 1 MA's), (29, 62841), (31, 62820), (36, 62781),

Gene: PG1_83 Start: 63611, Stop: 63228, Start Num: 12

Candidate Starts for PG1_83:

(Start: 12 @63611 has 34 MA's), (Start: 22 @63530 has 1 MA's), (29, 63413), (31, 63392), (36, 63353),

Gene: Parvarticeps_13 Start: 8726, Stop: 9028, Start Num: 19

Candidate Starts for Parvarticeps_13:

(1, 7829), (2, 8093), (3, 8369), (7, 8615), (9, 8627), (Start: 19 @8726 has 3 MA's), (25, 8810), (33, 8870), (40, 9002),

Gene: Patbob_195 Start: 137664, Stop: 137954, Start Num: 23

Candidate Starts for Patbob_195:

(17, 137628), (Start: 23 @137664 has 6 MA's), (38, 137883),

Gene: PhatCats2014_84 Start: 63611, Stop: 63228, Start Num: 12

Candidate Starts for PhatCats2014_84:

(Start: 12 @63611 has 34 MA's), (Start: 22 @63530 has 1 MA's), (24, 63461), (29, 63413), (31, 63392), (36, 63353),

Gene: Phrampa_190 Start: 137032, Stop: 137322, Start Num: 23

Candidate Starts for Phrampa_190:

(17, 136996), (Start: 23 @137032 has 6 MA's), (38, 137251),

Gene: PhrankReynolds_83 Start: 63110, Stop: 62727, Start Num: 12

Candidate Starts for PhrankReynolds_83:

(Start: 12 @63110 has 34 MA's), (Start: 22 @63029 has 1 MA's), (24, 62960), (29, 62912), (31, 62891), (36, 62852),

Gene: Pops_82 Start: 63120, Stop: 62737, Start Num: 12

Candidate Starts for Pops_82:

(Start: 12 @63120 has 34 MA's), (Start: 22 @63039 has 1 MA's), (29, 62922), (31, 62901), (36, 62862),

Gene: Puhltonio_81 Start: 63213, Stop: 62830, Start Num: 12

Candidate Starts for Puhltonio_81:

(Start: 12 @63213 has 34 MA's), (Start: 22 @63132 has 1 MA's), (29, 63015), (31, 62994), (36, 62955),

Gene: Puppies_40 Start: 32033, Stop: 31737, Start Num: 19

Candidate Starts for Puppies_40:

(4, 32213), (5, 32204), (11, 32105), (Start: 19 @32033 has 3 MA's), (26, 31949), (34, 31889), (38, 31811),

Gene: Racecar_198 Start: 137389, Stop: 137679, Start Num: 23

Candidate Starts for Racecar_198:

(17, 137353), (Start: 23 @137389 has 6 MA's), (30, 137506), (38, 137608),

Gene: Roy17_82 Start: 62668, Stop: 62285, Start Num: 12

Candidate Starts for Roy17_82:

(Start: 12 @62668 has 34 MA's), (Start: 22 @62587 has 1 MA's), (29, 62470), (31, 62449), (36, 62410),

Gene: Serendipity_84 Start: 63416, Stop: 63033, Start Num: 12

Candidate Starts for Serendipity_84:

(Start: 12 @63416 has 34 MA's), (Start: 22 @63335 has 1 MA's), (29, 63218), (31, 63197), (36, 63158),

Gene: Sigman_84 Start: 62924, Stop: 62541, Start Num: 12

Candidate Starts for Sigman_84:

(Start: 12 @62924 has 34 MA's), (Start: 22 @62843 has 1 MA's), (24, 62774), (29, 62726), (31, 62705), (36, 62666),

Gene: SilverBell_85 Start: 63378, Stop: 62995, Start Num: 12

Candidate Starts for SilverBell_85:

(Start: 12 @63378 has 34 MA's), (Start: 22 @63297 has 1 MA's), (24, 63228), (29, 63180), (31, 63159), (36, 63120),

Gene: Suffolk_81 Start: 62932, Stop: 62549, Start Num: 12

Candidate Starts for Suffolk_81:

(Start: 12 @62932 has 34 MA's), (Start: 22 @62851 has 1 MA's), (29, 62734), (31, 62713), (36, 62674),

Gene: Talia1610_198 Start: 137685, Stop: 137975, Start Num: 23

Candidate Starts for Talia1610_198:

(17, 137649), (Start: 23 @137685 has 6 MA's), (30, 137802), (38, 137904),

Gene: Toni_84 Start: 63397, Stop: 63014, Start Num: 12

Candidate Starts for Toni_84:

(Start: 12 @63397 has 34 MA's), (Start: 22 @63316 has 1 MA's), (29, 63199), (31, 63178), (36, 63139),

Gene: Trypo_85 Start: 63665, Stop: 63282, Start Num: 12

Candidate Starts for Trypo_85:

(Start: 12 @63665 has 34 MA's), (Start: 22 @63584 has 1 MA's), (29, 63467), (31, 63446), (36, 63407),

Gene: UncleHowie_81 Start: 62631, Stop: 62248, Start Num: 12

Candidate Starts for UncleHowie_81:

(Start: 12 @62631 has 34 MA's), (Start: 22 @62550 has 1 MA's), (29, 62433), (31, 62412), (36, 62373),

Gene: Upyo_44 Start: 33729, Stop: 33457, Start Num: 22

Candidate Starts for Upyo_44:

(13, 33810), (15, 33807), (16, 33774), (Start: 22 @33729 has 1 MA's), (26, 33657), (27, 33630), (28, 33627), (37, 33558), (38, 33519),

Gene: Vectra_83 Start: 63084, Stop: 62701, Start Num: 12

Candidate Starts for Vectra_83:

(Start: 12 @63084 has 34 MA's), (Start: 22 @63003 has 1 MA's), (29, 62886), (31, 62865), (36, 62826),

Gene: Vortex_83 Start: 63213, Stop: 62830, Start Num: 12

Candidate Starts for Vortex_83:

(Start: 12 @63213 has 34 MA's), (Start: 22 @63132 has 1 MA's), (29, 63015), (31, 62994), (36, 62955),

Gene: Xavier_84 Start: 63105, Stop: 62722, Start Num: 12

Candidate Starts for Xavier_84:

(Start: 12 @63105 has 34 MA's), (Start: 22 @63024 has 1 MA's), (29, 62907), (31, 62886), (36, 62847),

Gene: Zonia_85 Start: 63662, Stop: 63279, Start Num: 12

Candidate Starts for Zonia_85:

(Start: 12 @63662 has 34 MA's), (Start: 22 @63581 has 1 MA's), (29, 63464), (31, 63443), (36, 63404),