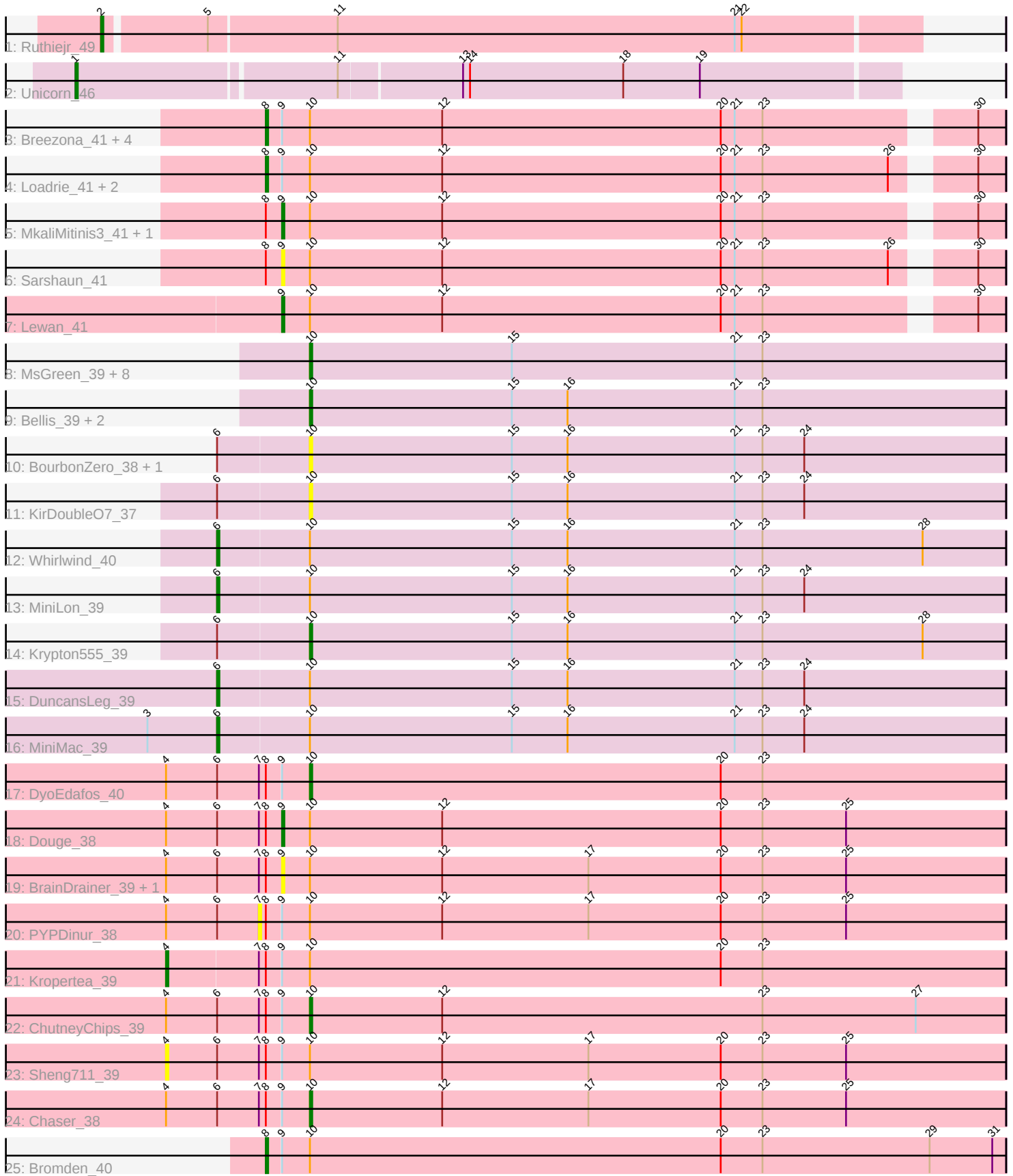


Pham 330994



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 330994 Report

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

Pham number 330994 has 44 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Ruthiejr_49
- Track 2 : Unicorn_46
- Track 3 : Breezona_41, Nicholasp3_41, Faith1_41, Rumpelstiltskin_41, Winky_41
- Track 4 : Loadie_41, Wigglewiggle_41, Kahlid_41
- Track 5 : MkaliMitinis3_41, LilDestine_41
- Track 6 : Sarshaun_41
- Track 7 : Lewan_41
- Track 8 : MsGreen_39, Jubie_39, Nicholas_39, Lumos_39, Red305_39, Kingsolomon_39, Clautastrophe_39, TriFive_39, Snenia_39
- Track 9 : Bellis_39, Moostard_39, Finnry_39
- Track 10 : BourbonZero_38, Ellson_39
- Track 11 : KirDoubleO7_37
- Track 12 : Whirlwind_40
- Track 13 : MiniLon_39
- Track 14 : Krypton555_39
- Track 15 : DuncansLeg_39
- Track 16 : MiniMac_39
- Track 17 : DyoEdafos_40
- Track 18 : Douge_38
- Track 19 : BrainDrainer_39, Douzhi_38
- Track 20 : PYPDinur_38
- Track 21 : Kropertea_39
- Track 22 : ChutneyChips_39
- Track 23 : Sheng711_39
- Track 24 : Chaser_38
- Track 25 : Bromden_40

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

The start number called the most often in the published annotations is 10, it was called in 15 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bellis_39, BourbonZero_38, Chaser_38, ChutneyChips_39, Clautastrophe_39, DyoEdafos_40, Ellson_39, Finnry_39, Jubie_39, Kingsolomon_39, KirDoubleO7_37, Krypton555_39, Lumos_39, Moostard_39, MsGreen_39, Nicholas_39, Red305_39, Snenia_39, TriFive_39,

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

- BrainDrainer_39, Breezona_41, Bromden_40, Douge_38, Douzhi_38, DuncansLeg_39, Faith1_41, Kahlid_41, Kropertea_39, Lewan_41, LilDestine_41, Loadrie_41, MiniLon_39, MiniMac_39, MkaliMitinis3_41, Nicholasp3_41, PYPDinur_38, Rumpelstiltskin_41, Sarshaun_41, Sheng711_39, Whirlwind_40, Wigglewiggle_41, Winky_41,

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

- Ruthiejr_49, Unicorn_46,

Summary by start number:

Start 1:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Unicorn_46 (K6),

Start 2:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ruthiejr_49 (K4),

Start 4:

- Found in 9 of 44 (20.5%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Kropertea_39 (L4), Sheng711_39 (L4),

Start 6:

- Found in 16 of 44 (36.4%) of genes in pham
- Manual Annotations of this start: 4 of 35
- Called 25.0% of time when present
- Phage (with cluster) where this start called: DuncansLeg_39 (L3), MiniLon_39 (L3), MiniMac_39 (L3), Whirlwind_40 (L3),

Start 7:

- Found in 9 of 44 (20.5%) of genes in pham
- No Manual Annotations of this start.
- Called 11.1% of time when present
- Phage (with cluster) where this start called: PYPDinur_38 (L4),

Start 8:

- Found in 21 of 44 (47.7%) of genes in pham
- Manual Annotations of this start: 9 of 35
- Called 42.9% of time when present

- Phage (with cluster) where this start called: Breezona_41 (L2), Bromden_40 (L4), Faith1_41 (L2), Kahlid_41 (L2), Loadrie_41 (L2), Nicholasp3_41 (L2), Rumpelstiltskin_41 (L2), Wigglewiggle_41 (L2), Winky_41 (L2),

Start 9:

- Found in 22 of 44 (50.0%) of genes in pham
- Manual Annotations of this start: 4 of 35
- Called 31.8% of time when present
- Phage (with cluster) where this start called: BrainDrainer_39 (L4), Douge_38 (L4), Douzhi_38 (L4), Lewan_41 (L2), LilDestine_41 (L2), MkaliMitinis3_41 (L2), Sarshaun_41 (L2),

Start 10:

- Found in 42 of 44 (95.5%) of genes in pham
- Manual Annotations of this start: 15 of 35
- Called 45.2% of time when present
- Phage (with cluster) where this start called: Bellis_39 (L3), BourbonZero_38 (L3), Chaser_38 (L4), ChutneyChips_39 (L4), Clautastrophe_39 (L3), DyoEdafos_40 (L4), Ellson_39 (L3), Finnry_39 (L3), Jubie_39 (L3), Kingsolomon_39 (L3), KirDoubleO7_37 (L3), Krypton555_39 (L3), Lumos_39 (L3), Moostard_39 (L3), MsGreen_39 (L3), Nicholas_39 (L3), Red305_39 (L3), Snenia_39 (L3), TriFive_39 (L3),

Summary by clusters:

There are 5 clusters represented in this pham: L4, K4, L2, L3, K6,

Info for manual annotations of cluster K4:

- Start number 2 was manually annotated 1 time for cluster K4.

Info for manual annotations of cluster K6:

- Start number 1 was manually annotated 1 time for cluster K6.

Info for manual annotations of cluster L2:

- Start number 8 was manually annotated 8 times for cluster L2.
- Start number 9 was manually annotated 3 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 6 was manually annotated 4 times for cluster L3.
- Start number 10 was manually annotated 12 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 4 was manually annotated 1 time for cluster L4.
- Start number 8 was manually annotated 1 time for cluster L4.
- Start number 9 was manually annotated 1 time for cluster L4.
- Start number 10 was manually annotated 3 times for cluster L4.

Gene Information:

Gene: Bellis_39 Start: 34657, Stop: 34956, Start Num: 10

Candidate Starts for Bellis_39:

(Start: 10 @34657 has 15 MA's), (15, 34744), (16, 34768), (21, 34840), (23, 34852),

Gene: BourbonZero_38 Start: 34636, Stop: 34935, Start Num: 10

Candidate Starts for BourbonZero_38:

(Start: 6 @34597 has 4 MA's), (Start: 10 @34636 has 15 MA's), (15, 34723), (16, 34747), (21, 34819), (23, 34831), (24, 34849),

Gene: BrainDrainer_39 Start: 33307, Stop: 33618, Start Num: 9

Candidate Starts for BrainDrainer_39:

(Start: 4 @33259 has 1 MA's), (Start: 6 @33280 has 4 MA's), (7, 33298), (Start: 8 @33301 has 9 MA's), (Start: 9 @33307 has 4 MA's), (Start: 10 @33319 has 15 MA's), (12, 33376), (17, 33439), (20, 33496), (23, 33514), (25, 33550),

Gene: Breezona_41 Start: 34392, Stop: 34697, Start Num: 8

Candidate Starts for Breezona_41:

(Start: 8 @34392 has 9 MA's), (Start: 9 @34398 has 4 MA's), (Start: 10 @34410 has 15 MA's), (12, 34467), (20, 34587), (21, 34593), (23, 34605), (30, 34686),

Gene: Bromden_40 Start: 33855, Stop: 34172, Start Num: 8

Candidate Starts for Bromden_40:

(Start: 8 @33855 has 9 MA's), (Start: 9 @33861 has 4 MA's), (Start: 10 @33873 has 15 MA's), (20, 34050), (23, 34068), (29, 34140), (31, 34167),

Gene: Chaser_38 Start: 33136, Stop: 33435, Start Num: 10

Candidate Starts for Chaser_38:

(Start: 4 @33076 has 1 MA's), (Start: 6 @33097 has 4 MA's), (7, 33115), (Start: 8 @33118 has 9 MA's), (Start: 9 @33124 has 4 MA's), (Start: 10 @33136 has 15 MA's), (12, 33193), (17, 33256), (20, 33313), (23, 33331), (25, 33367),

Gene: ChutneyChips_39 Start: 33316, Stop: 33615, Start Num: 10

Candidate Starts for ChutneyChips_39:

(Start: 4 @33256 has 1 MA's), (Start: 6 @33277 has 4 MA's), (7, 33295), (Start: 8 @33298 has 9 MA's), (Start: 9 @33304 has 4 MA's), (Start: 10 @33316 has 15 MA's), (12, 33373), (23, 33511), (27, 33577),

Gene: Clautastrophe_39 Start: 34655, Stop: 34954, Start Num: 10

Candidate Starts for Clautastrophe_39:

(Start: 10 @34655 has 15 MA's), (15, 34742), (21, 34838), (23, 34850),

Gene: Douge_38 Start: 33062, Stop: 33373, Start Num: 9

Candidate Starts for Douge_38:

(Start: 4 @33014 has 1 MA's), (Start: 6 @33035 has 4 MA's), (7, 33053), (Start: 8 @33056 has 9 MA's), (Start: 9 @33062 has 4 MA's), (Start: 10 @33074 has 15 MA's), (12, 33131), (20, 33251), (23, 33269), (25, 33305),

Gene: Douzhi_38 Start: 33168, Stop: 33479, Start Num: 9

Candidate Starts for Douzhi_38:

(Start: 4 @33120 has 1 MA's), (Start: 6 @33141 has 4 MA's), (7, 33159), (Start: 8 @33162 has 9 MA's), (Start: 9 @33168 has 4 MA's), (Start: 10 @33180 has 15 MA's), (12, 33237), (17, 33300), (20, 33357), (23, 33375), (25, 33411),

Gene: DuncansLeg_39 Start: 34634, Stop: 34972, Start Num: 6

Candidate Starts for DuncansLeg_39:

(Start: 6 @34634 has 4 MA's), (Start: 10 @34673 has 15 MA's), (15, 34760), (16, 34784), (21, 34856), (23, 34868), (24, 34886),

Gene: DyoEdafos_40 Start: 33408, Stop: 33707, Start Num: 10

Candidate Starts for DyoEdafos_40:

(Start: 4 @33348 has 1 MA's), (Start: 6 @33369 has 4 MA's), (7, 33387), (Start: 8 @33390 has 9 MA's), (Start: 9 @33396 has 4 MA's), (Start: 10 @33408 has 15 MA's), (20, 33585), (23, 33603),

Gene: Ellson_39 Start: 34649, Stop: 34948, Start Num: 10

Candidate Starts for Ellson_39:

(Start: 6 @34610 has 4 MA's), (Start: 10 @34649 has 15 MA's), (15, 34736), (16, 34760), (21, 34832), (23, 34844), (24, 34862),

Gene: Faith1_41 Start: 34392, Stop: 34697, Start Num: 8

Candidate Starts for Faith1_41:

(Start: 8 @34392 has 9 MA's), (Start: 9 @34398 has 4 MA's), (Start: 10 @34410 has 15 MA's), (12, 34467), (20, 34587), (21, 34593), (23, 34605), (30, 34686),

Gene: Finnry_39 Start: 34658, Stop: 34957, Start Num: 10

Candidate Starts for Finnry_39:

(Start: 10 @34658 has 15 MA's), (15, 34745), (16, 34769), (21, 34841), (23, 34853),

Gene: Jubie_39 Start: 34656, Stop: 34955, Start Num: 10

Candidate Starts for Jubie_39:

(Start: 10 @34656 has 15 MA's), (15, 34743), (21, 34839), (23, 34851),

Gene: Kahlid_41 Start: 34398, Stop: 34703, Start Num: 8

Candidate Starts for Kahlid_41:

(Start: 8 @34398 has 9 MA's), (Start: 9 @34404 has 4 MA's), (Start: 10 @34416 has 15 MA's), (12, 34473), (20, 34593), (21, 34599), (23, 34611), (26, 34665), (30, 34692),

Gene: Kingsolomon_39 Start: 34655, Stop: 34954, Start Num: 10

Candidate Starts for Kingsolomon_39:

(Start: 10 @34655 has 15 MA's), (15, 34742), (21, 34838), (23, 34850),

Gene: KirDoubleO7_37 Start: 34677, Stop: 34976, Start Num: 10

Candidate Starts for KirDoubleO7_37:

(Start: 6 @34638 has 4 MA's), (Start: 10 @34677 has 15 MA's), (15, 34764), (16, 34788), (21, 34860), (23, 34872), (24, 34890),

Gene: Kropertea_39 Start: 33171, Stop: 33530, Start Num: 4

Candidate Starts for Kropertea_39:

(Start: 4 @33171 has 1 MA's), (7, 33210), (Start: 8 @33213 has 9 MA's), (Start: 9 @33219 has 4 MA's), (Start: 10 @33231 has 15 MA's), (20, 33408), (23, 33426),

Gene: Krypton555_39 Start: 34572, Stop: 34871, Start Num: 10

Candidate Starts for Krypton555_39:

(Start: 6 @34533 has 4 MA's), (Start: 10 @34572 has 15 MA's), (15, 34659), (16, 34683), (21, 34755), (23, 34767), (28, 34836),

Gene: Lewan_41 Start: 34391, Stop: 34690, Start Num: 9

Candidate Starts for Lewan_41:

(Start: 9 @34391 has 4 MA's), (Start: 10 @34403 has 15 MA's), (12, 34460), (20, 34580), (21, 34586), (23, 34598), (30, 34679),

Gene: LilDestine_41 Start: 34396, Stop: 34695, Start Num: 9

Candidate Starts for LilDestine_41:

(Start: 8 @34390 has 9 MA's), (Start: 9 @34396 has 4 MA's), (Start: 10 @34408 has 15 MA's), (12, 34465), (20, 34585), (21, 34591), (23, 34603), (30, 34684),

Gene: Loadrie_41 Start: 34424, Stop: 34729, Start Num: 8

Candidate Starts for Loadrie_41:

(Start: 8 @34424 has 9 MA's), (Start: 9 @34430 has 4 MA's), (Start: 10 @34442 has 15 MA's), (12, 34499), (20, 34619), (21, 34625), (23, 34637), (26, 34691), (30, 34718),

Gene: Lumos_39 Start: 34652, Stop: 34951, Start Num: 10

Candidate Starts for Lumos_39:

(Start: 10 @34652 has 15 MA's), (15, 34739), (21, 34835), (23, 34847),

Gene: MiniLon_39 Start: 34425, Stop: 34763, Start Num: 6

Candidate Starts for MiniLon_39:

(Start: 6 @34425 has 4 MA's), (Start: 10 @34464 has 15 MA's), (15, 34551), (16, 34575), (21, 34647), (23, 34659), (24, 34677),

Gene: MiniMac_39 Start: 34422, Stop: 34760, Start Num: 6

Candidate Starts for MiniMac_39:

(3, 34392), (Start: 6 @34422 has 4 MA's), (Start: 10 @34461 has 15 MA's), (15, 34548), (16, 34572), (21, 34644), (23, 34656), (24, 34674),

Gene: MkaliMitinis3_41 Start: 34400, Stop: 34699, Start Num: 9

Candidate Starts for MkaliMitinis3_41:

(Start: 8 @34394 has 9 MA's), (Start: 9 @34400 has 4 MA's), (Start: 10 @34412 has 15 MA's), (12, 34469), (20, 34589), (21, 34595), (23, 34607), (30, 34688),

Gene: Moostard_39 Start: 34657, Stop: 34956, Start Num: 10

Candidate Starts for Moostard_39:

(Start: 10 @34657 has 15 MA's), (15, 34744), (16, 34768), (21, 34840), (23, 34852),

Gene: MsGreen_39 Start: 34655, Stop: 34954, Start Num: 10

Candidate Starts for MsGreen_39:

(Start: 10 @34655 has 15 MA's), (15, 34742), (21, 34838), (23, 34850),

Gene: Nicholas_39 Start: 34655, Stop: 34954, Start Num: 10

Candidate Starts for Nicholas_39:

(Start: 10 @34655 has 15 MA's), (15, 34742), (21, 34838), (23, 34850),

Gene: Nicholasp3_41 Start: 34393, Stop: 34698, Start Num: 8

Candidate Starts for Nicholasp3_41:

(Start: 8 @34393 has 9 MA's), (Start: 9 @34399 has 4 MA's), (Start: 10 @34411 has 15 MA's), (12, 34468), (20, 34588), (21, 34594), (23, 34606), (30, 34687),

Gene: PYPDinur_38 Start: 33159, Stop: 33479, Start Num: 7

Candidate Starts for PYPDinur_38:

(Start: 4 @33120 has 1 MA's), (Start: 6 @33141 has 4 MA's), (7, 33159), (Start: 8 @33162 has 9 MA's), (Start: 9 @33168 has 4 MA's), (Start: 10 @33180 has 15 MA's), (12, 33237), (17, 33300), (20,

33357), (23, 33375), (25, 33411),

Gene: Red305_39 Start: 34655, Stop: 34954, Start Num: 10

Candidate Starts for Red305_39:

(Start: 10 @34655 has 15 MA's), (15, 34742), (21, 34838), (23, 34850),

Gene: Rumpelstiltskin_41 Start: 34659, Stop: 34964, Start Num: 8

Candidate Starts for Rumpelstiltskin_41:

(Start: 8 @34659 has 9 MA's), (Start: 9 @34665 has 4 MA's), (Start: 10 @34677 has 15 MA's), (12, 34734), (20, 34854), (21, 34860), (23, 34872), (30, 34953),

Gene: Ruthiejr_49 Start: 36035, Stop: 36379, Start Num: 2

Candidate Starts for Ruthiejr_49:

(Start: 2 @36035 has 1 MA's), (5, 36077), (11, 36131), (21, 36302), (22, 36305),

Gene: Sarshaun_41 Start: 34432, Stop: 34731, Start Num: 9

Candidate Starts for Sarshaun_41:

(Start: 8 @34426 has 9 MA's), (Start: 9 @34432 has 4 MA's), (Start: 10 @34444 has 15 MA's), (12, 34501), (20, 34621), (21, 34627), (23, 34639), (26, 34693), (30, 34720),

Gene: Sheng711_39 Start: 33120, Stop: 33479, Start Num: 4

Candidate Starts for Sheng711_39:

(Start: 4 @33120 has 1 MA's), (Start: 6 @33141 has 4 MA's), (7, 33159), (Start: 8 @33162 has 9 MA's), (Start: 9 @33168 has 4 MA's), (Start: 10 @33180 has 15 MA's), (12, 33237), (17, 33300), (20, 33357), (23, 33375), (25, 33411),

Gene: Snenia_39 Start: 34656, Stop: 34955, Start Num: 10

Candidate Starts for Snenia_39:

(Start: 10 @34656 has 15 MA's), (15, 34743), (21, 34839), (23, 34851),

Gene: TriFive_39 Start: 34655, Stop: 34954, Start Num: 10

Candidate Starts for TriFive_39:

(Start: 10 @34655 has 15 MA's), (15, 34742), (21, 34838), (23, 34850),

Gene: Unicorn_46 Start: 35029, Stop: 35373, Start Num: 1

Candidate Starts for Unicorn_46:

(Start: 1 @35029 has 1 MA's), (11, 35137), (13, 35188), (14, 35191), (18, 35257), (19, 35290),

Gene: Whirlwind_40 Start: 34375, Stop: 34713, Start Num: 6

Candidate Starts for Whirlwind_40:

(Start: 6 @34375 has 4 MA's), (Start: 10 @34414 has 15 MA's), (15, 34501), (16, 34525), (21, 34597), (23, 34609), (28, 34678),

Gene: Wigglewobble_41 Start: 34425, Stop: 34730, Start Num: 8

Candidate Starts for Wigglewobble_41:

(Start: 8 @34425 has 9 MA's), (Start: 9 @34431 has 4 MA's), (Start: 10 @34443 has 15 MA's), (12, 34500), (20, 34620), (21, 34626), (23, 34638), (26, 34692), (30, 34719),

Gene: Winky_41 Start: 34392, Stop: 34697, Start Num: 8

Candidate Starts for Winky_41:

(Start: 8 @34392 has 9 MA's), (Start: 9 @34398 has 4 MA's), (Start: 10 @34410 has 15 MA's), (12, 34467), (20, 34587), (21, 34593), (23, 34605), (30, 34686),