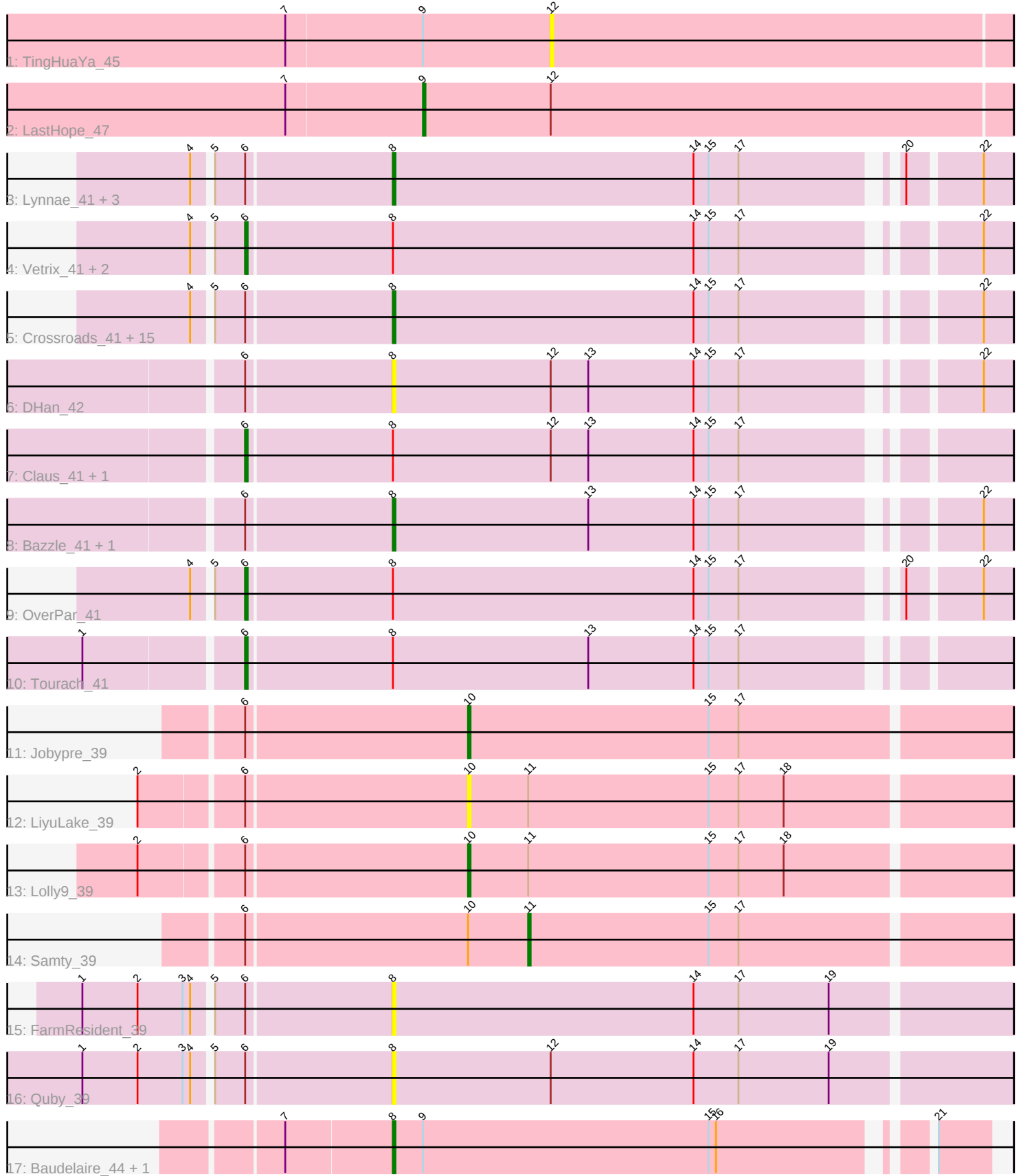


Pham 331023



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 331023 Report

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

Pham number 331023 has 40 members, 13 are drafts.

Phages represented in each track:

- Track 1 : TingHuaYa_45
- Track 2 : LastHope_47
- Track 3 : Lynnae_41, Wilder_41, Hafay_41, Soap141_41
- Track 4 : Vetrix_41, Underpass_41, DrSeegs_41
- Track 5 : Crossroads_41, Itos_40, Molivier_41, BigCheese_41, Finemlucis_41, BobsGarage_41, Hiraya_41, GuuelaD_41, Gardann_41, Netyap_41, Rossetti_41, Miley16_41, Gabriela_41, SoJulia_42, ChengKai98_41, Zakai_41
- Track 6 : DHan_42
- Track 7 : Claus_41, Baoshan_40
- Track 8 : Bazzle_41, Archie_41
- Track 9 : OverPar_41
- Track 10 : Tourach_41
- Track 11 : Jobypre_39
- Track 12 : LiyuLake_39
- Track 13 : Lolly9_39
- Track 14 : Samty_39
- Track 15 : FarmResident_39
- Track 16 : Quby_39
- Track 17 : Baudelaire_44, Aegeus_44

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

The start number called the most often in the published annotations is 8, it was called in 16 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aegeus_44, Archie_41, Baudelaire_44, Bazzle_41, BigCheese_41, BobsGarage_41, ChengKai98_41, Crossroads_41, DHan_42, FarmResident_39, Finemlucis_41, Gabriela_41, Gardann_41, GuuelaD_41, Hafay_41, Hiraya_41, Itos_40, Lynnae_41, Miley16_41, Molivier_41, Netyap_41, Quby_39, Rossetti_41, SoJulia_42, Soap141_41, Wilder_41, Zakai_41,

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

- Baoshan_40, Claus_41, DrSeegs_41, OverPar_41, Tourach_41, Underpass_41, Vetrix_41,

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

- Jobypre_39, LastHope_47, LiyuLake_39, Lolly9_39, Samty_39, TingHuaYa_45,

Summary by start number:

Start 6:

- Found in 36 of 40 (90.0%) of genes in pham
- Manual Annotations of this start: 7 of 27
- Called 19.4% of time when present
- Phage (with cluster) where this start called: Baoshan_40 (L2), Claus_41 (L2), DrSeegs_41 (L2), OverPar_41 (L2), Tourach_41 (L2), Underpass_41 (L2), Vetrix_41 (L2),

Start 8:

- Found in 34 of 40 (85.0%) of genes in pham
- Manual Annotations of this start: 16 of 27
- Called 79.4% of time when present
- Phage (with cluster) where this start called: Aegeus_44 (L5), Archie_41 (L2), Baudelaire_44 (L5), Bazzle_41 (L2), BigCheese_41 (L2), BobsGarage_41 (L2), ChengKai98_41 (L2), Crossroads_41 (L2), DHan_42 (L2), FarmResident_39 (L4), Finemlucis_41 (L2), Gabriela_41 (L2), Gardann_41 (L2), GuuelaD_41 (L2), Hafay_41 (L2), Hiraya_41 (L2), Itos_40 (L2), Lynnae_41 (L2), Miley16_41 (L2), Molivier_41 (L2), Netyap_41 (L2), Quby_39 (L4), Rossetti_41 (L2), SoJulia_42 (L2), Soap141_41 (L2), Wilder_41 (L2), Zakai_41 (L2),

Start 9:

- Found in 4 of 40 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 25.0% of time when present
- Phage (with cluster) where this start called: LastHope_47 (K1),

Start 10:

- Found in 4 of 40 (10.0%) of genes in pham
- Manual Annotations of this start: 2 of 27
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Jobypre_39 (L3), LiyuLake_39 (L3), Lolly9_39 (L3),

Start 11:

- Found in 3 of 40 (7.5%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Samty_39 (L3),

Start 12:

- Found in 6 of 40 (15.0%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: TingHuaYa_45 (K1),

Summary by clusters:

There are 5 clusters represented in this pham: K1, L4, L5, L2, L3,

Info for manual annotations of cluster K1:

- Start number 9 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster L2:

- Start number 6 was manually annotated 7 times for cluster L2.
- Start number 8 was manually annotated 14 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 10 was manually annotated 2 times for cluster L3.
- Start number 11 was manually annotated 1 time for cluster L3.

Info for manual annotations of cluster L5:

- Start number 8 was manually annotated 2 times for cluster L5.

Gene Information:

Gene: Aegeus_44 Start: 36838, Stop: 37059, Start Num: 8

Candidate Starts for Aegeus_44:

(7, 36796), (Start: 8 @36838 has 16 MA's), (Start: 9 @36850 has 1 MA's), (15, 36964), (16, 36967), (21, 37039),

Gene: Archie_41 Start: 34671, Stop: 34901, Start Num: 8

Candidate Starts for Archie_41:

(Start: 6 @34614 has 7 MA's), (Start: 8 @34671 has 16 MA's), (13, 34749), (14, 34791), (15, 34797), (17, 34809), (22, 34890),

Gene: Baoshan_40 Start: 34271, Stop: 34558, Start Num: 6

Candidate Starts for Baoshan_40:

(Start: 6 @34271 has 7 MA's), (Start: 8 @34328 has 16 MA's), (12, 34391), (13, 34406), (14, 34448), (15, 34454), (17, 34466),

Gene: Baudelaire_44 Start: 36838, Stop: 37059, Start Num: 8

Candidate Starts for Baudelaire_44:

(7, 36796), (Start: 8 @36838 has 16 MA's), (Start: 9 @36850 has 1 MA's), (15, 36964), (16, 36967), (21, 37039),

Gene: Bazzle_41 Start: 34703, Stop: 34933, Start Num: 8

Candidate Starts for Bazzle_41:

(Start: 6 @34646 has 7 MA's), (Start: 8 @34703 has 16 MA's), (13, 34781), (14, 34823), (15, 34829), (17, 34841), (22, 34922),

Gene: BigCheese_41 Start: 34467, Stop: 34697, Start Num: 8

Candidate Starts for BigCheese_41:

(4, 34392), (5, 34398), (Start: 6 @34410 has 7 MA's), (Start: 8 @34467 has 16 MA's), (14, 34587), (15, 34593), (17, 34605), (22, 34686),

Gene: BobsGarage_41 Start: 34467, Stop: 34697, Start Num: 8

Candidate Starts for BobsGarage_41:

(4, 34392), (5, 34398), (Start: 6 @34410 has 7 MA's), (Start: 8 @34467 has 16 MA's), (14, 34587), (15, 34593), (17, 34605), (22, 34686),

Gene: ChengKai98_41 Start: 34468, Stop: 34698, Start Num: 8

Candidate Starts for ChengKai98_41:

(4, 34393), (5, 34399), (Start: 6 @34411 has 7 MA's), (Start: 8 @34468 has 16 MA's), (14, 34588), (15, 34594), (17, 34606), (22, 34687),

Gene: Claus_41 Start: 34429, Stop: 34716, Start Num: 6

Candidate Starts for Claus_41:

(Start: 6 @34429 has 7 MA's), (Start: 8 @34486 has 16 MA's), (12, 34549), (13, 34564), (14, 34606), (15, 34612), (17, 34624),

Gene: Crossroads_41 Start: 34469, Stop: 34699, Start Num: 8

Candidate Starts for Crossroads_41:

(4, 34394), (5, 34400), (Start: 6 @34412 has 7 MA's), (Start: 8 @34469 has 16 MA's), (14, 34589), (15, 34595), (17, 34607), (22, 34688),

Gene: DHan_42 Start: 34427, Stop: 34657, Start Num: 8

Candidate Starts for DHan_42:

(Start: 6 @34370 has 7 MA's), (Start: 8 @34427 has 16 MA's), (12, 34490), (13, 34505), (14, 34547), (15, 34553), (17, 34565), (22, 34646),

Gene: DrSeegs_41 Start: 34410, Stop: 34697, Start Num: 6

Candidate Starts for DrSeegs_41:

(4, 34392), (5, 34398), (Start: 6 @34410 has 7 MA's), (Start: 8 @34467 has 16 MA's), (14, 34587), (15, 34593), (17, 34605), (22, 34686),

Gene: FarmResident_39 Start: 33175, Stop: 33417, Start Num: 8

Candidate Starts for FarmResident_39:

(1, 33058), (2, 33079), (3, 33097), (4, 33100), (5, 33106), (Start: 6 @33118 has 7 MA's), (Start: 8 @33175 has 16 MA's), (14, 33295), (17, 33313), (19, 33349),

Gene: Finemlucis_41 Start: 34743, Stop: 34973, Start Num: 8

Candidate Starts for Finemlucis_41:

(4, 34668), (5, 34674), (Start: 6 @34686 has 7 MA's), (Start: 8 @34743 has 16 MA's), (14, 34863), (15, 34869), (17, 34881), (22, 34962),

Gene: Gabriela_41 Start: 34729, Stop: 34959, Start Num: 8

Candidate Starts for Gabriela_41:

(4, 34654), (5, 34660), (Start: 6 @34672 has 7 MA's), (Start: 8 @34729 has 16 MA's), (14, 34849), (15, 34855), (17, 34867), (22, 34948),

Gene: Gardann_41 Start: 34468, Stop: 34698, Start Num: 8

Candidate Starts for Gardann_41:

(4, 34393), (5, 34399), (Start: 6 @34411 has 7 MA's), (Start: 8 @34468 has 16 MA's), (14, 34588), (15, 34594), (17, 34606), (22, 34687),

Gene: GuuelaD_41 Start: 34506, Stop: 34736, Start Num: 8

Candidate Starts for GuuelaD_41:

(4, 34431), (5, 34437), (Start: 6 @34449 has 7 MA's), (Start: 8 @34506 has 16 MA's), (14, 34626), (15, 34632), (17, 34644), (22, 34725),

Gene: Hafay_41 Start: 34501, Stop: 34731, Start Num: 8

Candidate Starts for Hafay_41:

(4, 34426), (5, 34432), (Start: 6 @34444 has 7 MA's), (Start: 8 @34501 has 16 MA's), (14, 34621), (15, 34627), (17, 34639), (20, 34693), (22, 34720),

Gene: Hiraya_41 Start: 34468, Stop: 34698, Start Num: 8

Candidate Starts for Hiraya_41:

(4, 34393), (5, 34399), (Start: 6 @34411 has 7 MA's), (Start: 8 @34468 has 16 MA's), (14, 34588), (15, 34594), (17, 34606), (22, 34687),

Gene: Itos_40 Start: 33373, Stop: 33603, Start Num: 8

Candidate Starts for Itos_40:

(4, 33298), (5, 33304), (Start: 6 @33316 has 7 MA's), (Start: 8 @33373 has 16 MA's), (14, 33493), (15, 33499), (17, 33511), (22, 33592),

Gene: Jobypre_39 Start: 34742, Stop: 34954, Start Num: 10

Candidate Starts for Jobypre_39:

(Start: 6 @34655 has 7 MA's), (Start: 10 @34742 has 2 MA's), (15, 34838), (17, 34850),

Gene: LastHope_47 Start: 34715, Stop: 34948, Start Num: 9

Candidate Starts for LastHope_47:

(7, 34661), (Start: 9 @34715 has 1 MA's), (12, 34766),

Gene: LiyuLake_39 Start: 34726, Stop: 34938, Start Num: 10

Candidate Starts for LiyuLake_39:

(2, 34600), (Start: 6 @34639 has 7 MA's), (Start: 10 @34726 has 2 MA's), (Start: 11 @34750 has 1 MA's), (15, 34822), (17, 34834), (18, 34852),

Gene: Lolly9_39 Start: 34550, Stop: 34762, Start Num: 10

Candidate Starts for Lolly9_39:

(2, 34424), (Start: 6 @34463 has 7 MA's), (Start: 10 @34550 has 2 MA's), (Start: 11 @34574 has 1 MA's), (15, 34646), (17, 34658), (18, 34676),

Gene: Lynnae_41 Start: 34456, Stop: 34686, Start Num: 8

Candidate Starts for Lynnae_41:

(4, 34381), (5, 34387), (Start: 6 @34399 has 7 MA's), (Start: 8 @34456 has 16 MA's), (14, 34576), (15, 34582), (17, 34594), (20, 34648), (22, 34675),

Gene: Miley16_41 Start: 34467, Stop: 34697, Start Num: 8

Candidate Starts for Miley16_41:

(4, 34392), (5, 34398), (Start: 6 @34410 has 7 MA's), (Start: 8 @34467 has 16 MA's), (14, 34587), (15, 34593), (17, 34605), (22, 34686),

Gene: Molivier_41 Start: 34464, Stop: 34694, Start Num: 8

Candidate Starts for Molivier_41:

(4, 34389), (5, 34395), (Start: 6 @34407 has 7 MA's), (Start: 8 @34464 has 16 MA's), (14, 34584), (15, 34590), (17, 34602), (22, 34683),

Gene: Netyap_41 Start: 34467, Stop: 34697, Start Num: 8

Candidate Starts for Netyap_41:

(4, 34392), (5, 34398), (Start: 6 @34410 has 7 MA's), (Start: 8 @34467 has 16 MA's), (14, 34587), (15, 34593), (17, 34605), (22, 34686),

Gene: OverPar_41 Start: 34442, Stop: 34729, Start Num: 6

Candidate Starts for OverPar_41:

(4, 34424), (5, 34430), (Start: 6 @34442 has 7 MA's), (Start: 8 @34499 has 16 MA's), (14, 34619), (15, 34625), (17, 34637), (20, 34691), (22, 34718),

Gene: Quby_39 Start: 33131, Stop: 33373, Start Num: 8

Candidate Starts for Quby_39:

(1, 33014), (2, 33035), (3, 33053), (4, 33056), (5, 33062), (Start: 6 @33074 has 7 MA's), (Start: 8 @33131 has 16 MA's), (12, 33194), (14, 33251), (17, 33269), (19, 33305),

Gene: Rossetti_41 Start: 34734, Stop: 34964, Start Num: 8

Candidate Starts for Rossetti_41:

(4, 34659), (5, 34665), (Start: 6 @34677 has 7 MA's), (Start: 8 @34734 has 16 MA's), (14, 34854), (15, 34860), (17, 34872), (22, 34953),

Gene: Samty_39 Start: 34767, Stop: 34955, Start Num: 11

Candidate Starts for Samty_39:

(Start: 6 @34656 has 7 MA's), (Start: 10 @34743 has 2 MA's), (Start: 11 @34767 has 1 MA's), (15, 34839), (17, 34851),

Gene: SoJulia_42 Start: 34727, Stop: 34957, Start Num: 8

Candidate Starts for SoJulia_42:

(4, 34652), (5, 34658), (Start: 6 @34670 has 7 MA's), (Start: 8 @34727 has 16 MA's), (14, 34847), (15, 34853), (17, 34865), (22, 34946),

Gene: Soap141_41 Start: 34501, Stop: 34731, Start Num: 8

Candidate Starts for Soap141_41:

(4, 34426), (5, 34432), (Start: 6 @34444 has 7 MA's), (Start: 8 @34501 has 16 MA's), (14, 34621), (15, 34627), (17, 34639), (20, 34693), (22, 34720),

Gene: TingHuaYa_45 Start: 34549, Stop: 34731, Start Num: 12

Candidate Starts for TingHuaYa_45:

(7, 34444), (Start: 9 @34498 has 1 MA's), (12, 34549),

Gene: Tourach_41 Start: 34425, Stop: 34712, Start Num: 6

Candidate Starts for Tourach_41:

(1, 34365), (Start: 6 @34425 has 7 MA's), (Start: 8 @34482 has 16 MA's), (13, 34560), (14, 34602), (15, 34608), (17, 34620),

Gene: Underpass_41 Start: 34411, Stop: 34698, Start Num: 6

Candidate Starts for Underpass_41:

(4, 34393), (5, 34399), (Start: 6 @34411 has 7 MA's), (Start: 8 @34468 has 16 MA's), (14, 34588), (15, 34594), (17, 34606), (22, 34687),

Gene: Vetrix_41 Start: 34417, Stop: 34704, Start Num: 6

Candidate Starts for Vetrix_41:

(4, 34399), (5, 34405), (Start: 6 @34417 has 7 MA's), (Start: 8 @34474 has 16 MA's), (14, 34594), (15, 34600), (17, 34612), (22, 34693),

Gene: Wilder_41 Start: 34473, Stop: 34703, Start Num: 8

Candidate Starts for Wilder_41:

(4, 34398), (5, 34404), (Start: 6 @34416 has 7 MA's), (Start: 8 @34473 has 16 MA's), (14, 34593), (15, 34599), (17, 34611), (20, 34665), (22, 34692),

Gene: Zakai_41 Start: 34725, Stop: 34955, Start Num: 8

Candidate Starts for Zakai_41:

(4, 34650), (5, 34656), (Start: 6 @34668 has 7 MA's), (Start: 8 @34725 has 16 MA's), (14, 34845), (15, 34851), (17, 34863), (22, 34944),