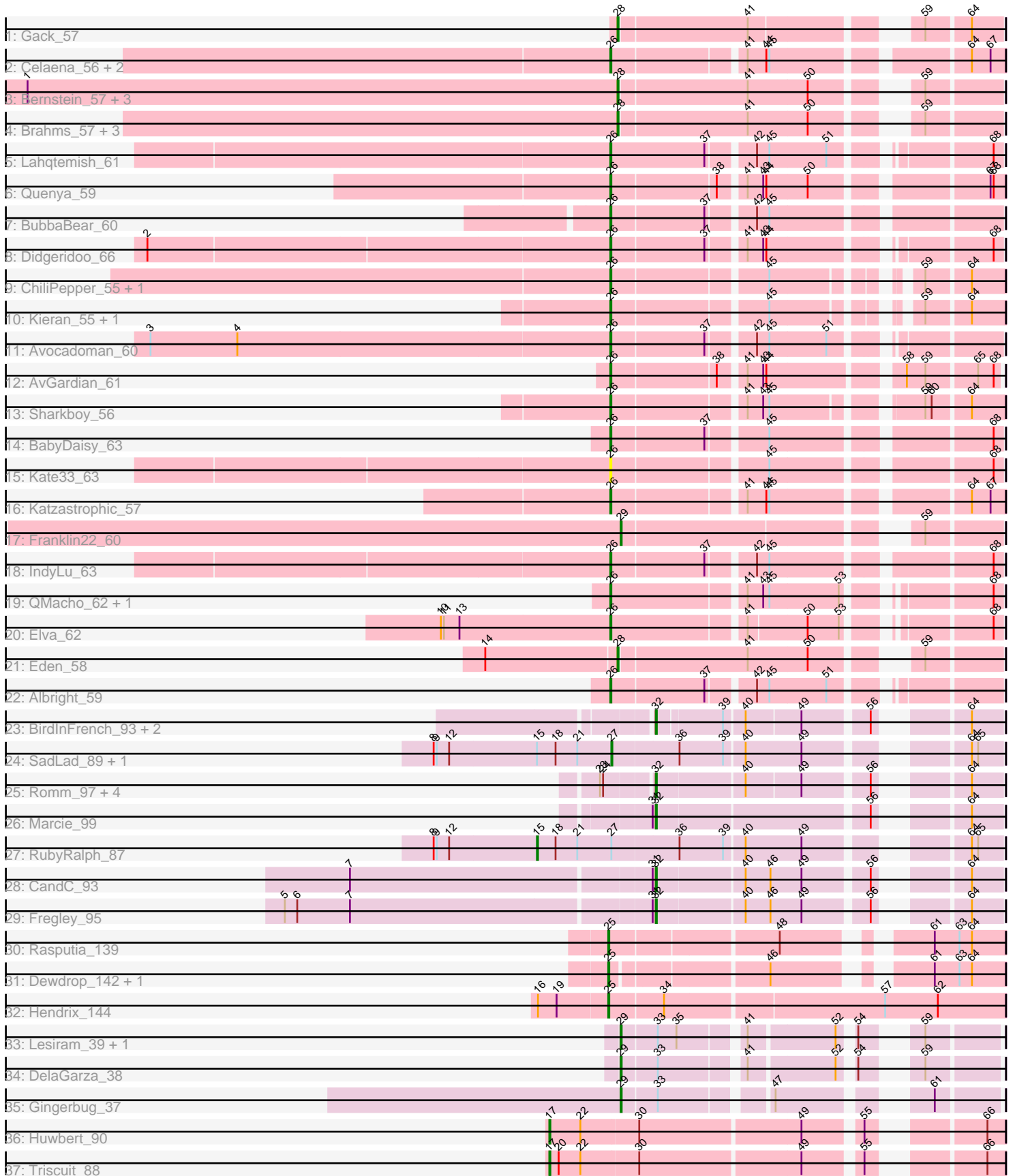


Pham 194046



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 194046 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194046 has 57 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Gack_57
- Track 2 : Celaena_56, Bachaco_56, FlameThrower_55
- Track 3 : Bernstein_57, Vitas_57, Skylord_57, Rollins_57
- Track 4 : Brahms_57, Coltrane_57, Armstrong_57, Clayda5_59
- Track 5 : Lahqtemish_61
- Track 6 : Quenya_59
- Track 7 : BubbaBear_60
- Track 8 : Didgeridoo_66
- Track 9 : ChiliPepper_55, Dismas_56
- Track 10 : Kieran_55, Rona_55
- Track 11 : Avocadoman_60
- Track 12 : AvGardian_61
- Track 13 : Sharkboy_56
- Track 14 : BabyDaisy_63
- Track 15 : Kate33_63
- Track 16 : Katzastrophic_57
- Track 17 : Franklin22_60
- Track 18 : IndyLu_63
- Track 19 : QMacho_62, Eula_60
- Track 20 : Elva_62
- Track 21 : Eden_58
- Track 22 : Albright_59
- Track 23 : BirdInFrench_93, Wilca_93, Pepe25_91
- Track 24 : SadLad_89, Fransoyer_87
- Track 25 : Romm_97, Kelcole_94, RobinRose_97, OneinaGillian_92, Tempo_96
- Track 26 : Marcie_99
- Track 27 : RubyRalph_87
- Track 28 : CandC_93
- Track 29 : Fregley_95
- Track 30 : Rasputia_139
- Track 31 : Dewdrop_142, Leaf_142
- Track 32 : Hendrix_144
- Track 33 : Lesiram_39, Teng_40
- Track 34 : DelaGarza_38
- Track 35 : Gingerbug_37
- Track 36 : Huwburt_90
- Track 37 : Triscuit_88

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

The start number called the most often in the published annotations is 26, it was called in 21 of the 52 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Albright_59, AvGardian_61, Avocadoman_60, BabyDaisy_63, Bachaco_56, BubbaBear_60, Celaena_56, ChiliPepper_55, Didgeridoo_66, Dismas_56, Elva_62, Eula_60, FlameThrower_55, IndyLu_63, Kate33_63, Katzastrophic_57, Kieran_55, Lahqtemish_61, QMacho_62, Quenya_59, Rona_55, Sharkboy_56,

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

-

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

- Armstrong_57, Bernstein_57, BirdInFrench_93, Brahms_57, CandC_93, Clayda5_59, Coltrane_57, DelaGarza_38, Dewdrop_142, Eden_58, Franklin22_60, Fransoyer_87, Fregley_95, Gack_57, Gingerbug_37, Hendrix_144, Huwburt_90, Kelcole_94, Leaf_142, Lesiram_39, Marcie_99, OneinaGillian_92, Pepe25_91, Rasputia_139, RobinRose_97, Rollins_57, Romm_97, RubyRalph_87, SadLad_89, Skylord_57, Tempo_96, Teng_40, Triscuit_88, Vitas_57, Wilca_93,

Summary by start number:

Start 15:

- Found in 3 of 57 (5.3%) of genes in pham
- Manual Annotations of this start: 1 of 52
- Called 33.3% of time when present
- Phage (with cluster) where this start called: RubyRalph_87 (EG),

Start 17:

- Found in 2 of 57 (3.5%) of genes in pham
- Manual Annotations of this start: 2 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Huwburt_90 (GG), Triscuit_88 (GG),

Start 25:

- Found in 4 of 57 (7.0%) of genes in pham
- Manual Annotations of this start: 4 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dewdrop_142 (GC), Hendrix_144 (GC), Leaf_142 (GC), Rasputia_139 (GC),

Start 26:

- Found in 22 of 57 (38.6%) of genes in pham
- Manual Annotations of this start: 21 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Albright_59 (EB), AvGardian_61 (EB), Avocadoman_60 (EB), BabyDaisy_63 (EB), Bachaco_56 (EB), BubbaBear_60 (EB),

Celaena_56 (EB), ChiliPepper_55 (EB), Didgeridoo_66 (EB), Dismas_56 (EB), Elva_62 (EB), Eula_60 (EB), FlameThrower_55 (EB), IndyLu_63 (EB), Kate33_63 (EB), Katzastrophic_57 (EB), Kieran_55 (EB), Lahqtemish_61 (EB), QMacho_62 (EB), Quenya_59 (EB), Rona_55 (EB), Sharkboy_56 (EB),

Start 27:

- Found in 3 of 57 (5.3%) of genes in pham
- Manual Annotations of this start: 2 of 52
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Fransoyer_87 (EG), SadLad_89 (EG),

Start 28:

- Found in 10 of 57 (17.5%) of genes in pham
- Manual Annotations of this start: 10 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Armstrong_57 (EB), Bernstein_57 (EB), Brahms_57 (EB), Clayda5_59 (EB), Coltrane_57 (EB), Eden_58 (EB), Gack_57 (EB), Rollins_57 (EB), Skylord_57 (EB), Vitas_57 (EB),

Start 29:

- Found in 5 of 57 (8.8%) of genes in pham
- Manual Annotations of this start: 4 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DelaGarza_38 (GF), Franklin22_60 (EB), Gingerbug_37 (GF), Lesiram_39 (GF), Teng_40 (GF),

Start 32:

- Found in 11 of 57 (19.3%) of genes in pham
- Manual Annotations of this start: 8 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdInFrench_93 (EG), CandC_93 (EG), Fregley_95 (EG), Kelcole_94 (EG), Marcie_99 (EG), OneinaGillian_92 (EG), Pepe25_91 (EG), RobinRose_97 (EG), Romm_97 (EG), Tempo_96 (EG), Wilca_93 (EG),

Summary by clusters:

There are 5 clusters represented in this pham: GG, GF, EG, GC, EB,

Info for manual annotations of cluster EB:

- Start number 26 was manually annotated 21 times for cluster EB.
- Start number 28 was manually annotated 10 times for cluster EB.
- Start number 29 was manually annotated 1 time for cluster EB.

Info for manual annotations of cluster EG:

- Start number 15 was manually annotated 1 time for cluster EG.
- Start number 27 was manually annotated 2 times for cluster EG.
- Start number 32 was manually annotated 8 times for cluster EG.

Info for manual annotations of cluster GC:

- Start number 25 was manually annotated 4 times for cluster GC.

Info for manual annotations of cluster GF:

•Start number 29 was manually annotated 3 times for cluster GF.

Info for manual annotations of cluster GG:

•Start number 17 was manually annotated 2 times for cluster GG.

Gene Information:

Gene: Albright_59 Start: 38042, Stop: 38365, Start Num: 26

Candidate Starts for Albright_59:

(Start: 26 @38042 has 21 MA's), (37, 38129), (42, 38168), (45, 38180), (51, 38234),

Gene: Armstrong_57 Start: 35575, Stop: 35892, Start Num: 28

Candidate Starts for Armstrong_57:

(Start: 28 @35575 has 10 MA's), (41, 35695), (50, 35752), (59, 35824),

Gene: AvGardian_61 Start: 39011, Stop: 39343, Start Num: 26

Candidate Starts for AvGardian_61:

(Start: 26 @39011 has 21 MA's), (38, 39107), (41, 39128), (43, 39143), (44, 39146), (58, 39260), (59, 39278), (65, 39323), (68, 39338),

Gene: Avocadoman_60 Start: 38243, Stop: 38566, Start Num: 26

Candidate Starts for Avocadoman_60:

(3, 37802), (4, 37886), (Start: 26 @38243 has 21 MA's), (37, 38330), (42, 38369), (45, 38381), (51, 38435),

Gene: BabyDaisy_63 Start: 39765, Stop: 40097, Start Num: 26

Candidate Starts for BabyDaisy_63:

(Start: 26 @39765 has 21 MA's), (37, 39852), (45, 39903), (68, 40089),

Gene: Bachaco_56 Start: 38775, Stop: 39110, Start Num: 26

Candidate Starts for Bachaco_56:

(Start: 26 @38775 has 21 MA's), (41, 38892), (44, 38910), (45, 38913), (64, 39078), (67, 39096),

Gene: Bernstein_57 Start: 35573, Stop: 35890, Start Num: 28

Candidate Starts for Bernstein_57:

(1, 35003), (Start: 28 @35573 has 10 MA's), (41, 35693), (50, 35750), (59, 35822),

Gene: BirdInFrench_93 Start: 56287, Stop: 56012, Start Num: 32

Candidate Starts for BirdInFrench_93:

(Start: 32 @56287 has 8 MA's), (39, 56227), (40, 56209), (49, 56158), (56, 56101), (64, 56041),

Gene: Brahms_57 Start: 35475, Stop: 35792, Start Num: 28

Candidate Starts for Brahms_57:

(Start: 28 @35475 has 10 MA's), (41, 35595), (50, 35652), (59, 35724),

Gene: BubbaBear_60 Start: 39018, Stop: 39350, Start Num: 26

Candidate Starts for BubbaBear_60:

(Start: 26 @39018 has 21 MA's), (37, 39105), (42, 39144), (45, 39156),

Gene: CandC_93 Start: 56401, Stop: 56120, Start Num: 32

Candidate Starts for CandC_93:

(7, 56686), (31, 56404), (Start: 32 @56401 has 8 MA's), (40, 56320), (46, 56296), (49, 56266), (56, 56209), (64, 56149),

Gene: Celaena_56 Start: 38537, Stop: 38872, Start Num: 26

Candidate Starts for Celaena_56:

(Start: 26 @38537 has 21 MA's), (41, 38654), (44, 38672), (45, 38675), (64, 38840), (67, 38858),

Gene: ChiliPepper_55 Start: 37847, Stop: 38161, Start Num: 26

Candidate Starts for ChiliPepper_55:

(Start: 26 @37847 has 21 MA's), (45, 37985), (59, 38090), (64, 38129),

Gene: Clayda5_59 Start: 35540, Stop: 35857, Start Num: 28

Candidate Starts for Clayda5_59:

(Start: 28 @35540 has 10 MA's), (41, 35660), (50, 35717), (59, 35789),

Gene: Coltrane_57 Start: 35475, Stop: 35792, Start Num: 28

Candidate Starts for Coltrane_57:

(Start: 28 @35475 has 10 MA's), (41, 35595), (50, 35652), (59, 35724),

Gene: DelaGarza_38 Start: 24570, Stop: 24280, Start Num: 29

Candidate Starts for DelaGarza_38:

(Start: 29 @24570 has 4 MA's), (33, 24537), (41, 24465), (52, 24387), (54, 24378), (59, 24345),

Gene: Dewdrop_142 Start: 85102, Stop: 85425, Start Num: 25

Candidate Starts for Dewdrop_142:

(Start: 25 @85102 has 4 MA's), (46, 85240), (61, 85357), (63, 85381), (64, 85393),

Gene: Didgeridoo_66 Start: 39884, Stop: 40207, Start Num: 26

Candidate Starts for Didgeridoo_66:

(2, 39446), (Start: 26 @39884 has 21 MA's), (37, 39971), (41, 40001), (43, 40016), (44, 40019), (68, 40199),

Gene: Dismas_56 Start: 37768, Stop: 38082, Start Num: 26

Candidate Starts for Dismas_56:

(Start: 26 @37768 has 21 MA's), (45, 37906), (59, 38011), (64, 38050),

Gene: Eden_58 Start: 36683, Stop: 37000, Start Num: 28

Candidate Starts for Eden_58:

(14, 36560), (Start: 28 @36683 has 10 MA's), (41, 36803), (50, 36860), (59, 36932),

Gene: Elva_62 Start: 39454, Stop: 39777, Start Num: 26

Candidate Starts for Elva_62:

(10, 39292), (11, 39295), (13, 39310), (Start: 26 @39454 has 21 MA's), (41, 39574), (50, 39628), (53, 39658), (68, 39769),

Gene: Eula_60 Start: 38335, Stop: 38661, Start Num: 26

Candidate Starts for Eula_60:

(Start: 26 @38335 has 21 MA's), (41, 38455), (43, 38470), (45, 38476), (53, 38542), (68, 38653),

Gene: FlameThrower_55 Start: 37574, Stop: 37909, Start Num: 26

Candidate Starts for FlameThrower_55:

(Start: 26 @37574 has 21 MA's), (41, 37691), (44, 37709), (45, 37712), (64, 37877), (67, 37895),

Gene: Franklin22_60 Start: 36334, Stop: 36648, Start Num: 29
Candidate Starts for Franklin22_60:
(Start: 29 @36334 has 4 MA's), (59, 36580),

Gene: Fransoyer_87 Start: 55594, Stop: 55271, Start Num: 27
Candidate Starts for Fransoyer_87:
(8, 55765), (9, 55762), (12, 55750), (Start: 15 @55666 has 1 MA's), (18, 55648), (21, 55627), (Start: 27 @55594 has 2 MA's), (36, 55531), (39, 55489), (40, 55471), (49, 55417), (64, 55300), (65, 55294),

Gene: Fregley_95 Start: 56447, Stop: 56166, Start Num: 32
Candidate Starts for Fregley_95:
(5, 56795), (6, 56783), (7, 56732), (31, 56450), (Start: 32 @56447 has 8 MA's), (40, 56366), (46, 56342), (49, 56312), (56, 56255), (64, 56195),

Gene: Gack_57 Start: 36282, Stop: 36596, Start Num: 28
Candidate Starts for Gack_57:
(Start: 28 @36282 has 10 MA's), (41, 36402), (59, 36528), (64, 36567),

Gene: Gingerbug_37 Start: 25076, Stop: 24786, Start Num: 29
Candidate Starts for Gingerbug_37:
(Start: 29 @25076 has 4 MA's), (33, 25043), (47, 24950), (61, 24842),

Gene: Hendrix_144 Start: 89102, Stop: 89473, Start Num: 25
Candidate Starts for Hendrix_144:
(16, 89036), (19, 89054), (Start: 25 @89102 has 4 MA's), (34, 89153), (57, 89357), (62, 89408),

Gene: Huwbert_90 Start: 53979, Stop: 53599, Start Num: 17
Candidate Starts for Huwbert_90:
(Start: 17 @53979 has 2 MA's), (22, 53949), (30, 53895), (49, 53745), (55, 53697), (66, 53616),

Gene: IndyLu_63 Start: 39496, Stop: 39828, Start Num: 26
Candidate Starts for IndyLu_63:
(Start: 26 @39496 has 21 MA's), (37, 39583), (42, 39622), (45, 39634), (68, 39820),

Gene: Kate33_63 Start: 39232, Stop: 39564, Start Num: 26
Candidate Starts for Kate33_63:
(Start: 26 @39232 has 21 MA's), (45, 39370), (68, 39556),

Gene: Katzastrophic_57 Start: 38084, Stop: 38419, Start Num: 26
Candidate Starts for Katzastrophic_57:
(Start: 26 @38084 has 21 MA's), (41, 38201), (44, 38219), (45, 38222), (64, 38387), (67, 38405),

Gene: Kelcole_94 Start: 56959, Stop: 56681, Start Num: 32
Candidate Starts for Kelcole_94:
(23, 57004), (24, 57001), (Start: 32 @56959 has 8 MA's), (40, 56878), (49, 56827), (56, 56770), (64, 56710),

Gene: Kieran_55 Start: 37809, Stop: 38123, Start Num: 26
Candidate Starts for Kieran_55:
(Start: 26 @37809 has 21 MA's), (45, 37947), (59, 38052), (64, 38091),

Gene: Lahqtemish_61 Start: 39515, Stop: 39841, Start Num: 26
Candidate Starts for Lahqtemish_61:

(Start: 26 @39515 has 21 MA's), (37, 39605), (42, 39644), (45, 39656), (51, 39710), (68, 39833),

Gene: Leaf_142 Start: 85033, Stop: 85356, Start Num: 25

Candidate Starts for Leaf_142:

(Start: 25 @85033 has 4 MA's), (46, 85171), (61, 85288), (63, 85312), (64, 85324),

Gene: Lesiram_39 Start: 24542, Stop: 24252, Start Num: 29

Candidate Starts for Lesiram_39:

(Start: 29 @24542 has 4 MA's), (33, 24509), (35, 24491), (41, 24437), (52, 24359), (54, 24350), (59, 24317),

Gene: Marcie_99 Start: 57159, Stop: 56878, Start Num: 32

Candidate Starts for Marcie_99:

(31, 57162), (Start: 32 @57159 has 8 MA's), (56, 56967), (64, 56907),

Gene: OneinaGillian_92 Start: 55864, Stop: 55589, Start Num: 32

Candidate Starts for OneinaGillian_92:

(23, 55909), (24, 55906), (Start: 32 @55864 has 8 MA's), (40, 55786), (49, 55735), (56, 55678), (64, 55618),

Gene: Pepe25_91 Start: 55206, Stop: 54931, Start Num: 32

Candidate Starts for Pepe25_91:

(Start: 32 @55206 has 8 MA's), (39, 55146), (40, 55128), (49, 55077), (56, 55020), (64, 54960),

Gene: QMacho_62 Start: 38995, Stop: 39321, Start Num: 26

Candidate Starts for QMacho_62:

(Start: 26 @38995 has 21 MA's), (41, 39115), (43, 39130), (45, 39136), (53, 39202), (68, 39313),

Gene: Quenya_59 Start: 38216, Stop: 38551, Start Num: 26

Candidate Starts for Quenya_59:

(Start: 26 @38216 has 21 MA's), (38, 38312), (41, 38333), (43, 38348), (44, 38351), (50, 38390), (67, 38537), (68, 38540),

Gene: Rasputia_139 Start: 86480, Stop: 86809, Start Num: 25

Candidate Starts for Rasputia_139:

(Start: 25 @86480 has 4 MA's), (48, 86633), (61, 86741), (63, 86765), (64, 86777),

Gene: RobinRose_97 Start: 57031, Stop: 56753, Start Num: 32

Candidate Starts for RobinRose_97:

(23, 57076), (24, 57073), (Start: 32 @57031 has 8 MA's), (40, 56950), (49, 56899), (56, 56842), (64, 56782),

Gene: Rollins_57 Start: 35573, Stop: 35890, Start Num: 28

Candidate Starts for Rollins_57:

(1, 35003), (Start: 28 @35573 has 10 MA's), (41, 35693), (50, 35750), (59, 35822),

Gene: Romm_97 Start: 57028, Stop: 56750, Start Num: 32

Candidate Starts for Romm_97:

(23, 57073), (24, 57070), (Start: 32 @57028 has 8 MA's), (40, 56947), (49, 56896), (56, 56839), (64, 56779),

Gene: Rona_55 Start: 37759, Stop: 38073, Start Num: 26

Candidate Starts for Rona_55:

(Start: 26 @37759 has 21 MA's), (45, 37897), (59, 38002), (64, 38041),

Gene: RubyRalph_87 Start: 55267, Stop: 54872, Start Num: 15

Candidate Starts for RubyRalph_87:

(8, 55366), (9, 55363), (12, 55351), (Start: 15 @55267 has 1 MA's), (18, 55249), (21, 55228), (Start: 27 @55195 has 2 MA's), (36, 55132), (39, 55090), (40, 55072), (49, 55018), (64, 54901), (65, 54895),

Gene: SadLad_89 Start: 56322, Stop: 55999, Start Num: 27

Candidate Starts for SadLad_89:

(8, 56493), (9, 56490), (12, 56478), (Start: 15 @56394 has 1 MA's), (18, 56376), (21, 56355), (Start: 27 @56322 has 2 MA's), (36, 56259), (39, 56217), (40, 56199), (49, 56145), (64, 56028), (65, 56022),

Gene: Sharkboy_56 Start: 37858, Stop: 38187, Start Num: 26

Candidate Starts for Sharkboy_56:

(Start: 26 @37858 has 21 MA's), (41, 37975), (43, 37990), (45, 37996), (59, 38116), (60, 38122), (64, 38155),

Gene: Skylord_57 Start: 35514, Stop: 35831, Start Num: 28

Candidate Starts for Skylord_57:

(1, 34944), (Start: 28 @35514 has 10 MA's), (41, 35634), (50, 35691), (59, 35763),

Gene: Tempo_96 Start: 57068, Stop: 56790, Start Num: 32

Candidate Starts for Tempo_96:

(23, 57113), (24, 57110), (Start: 32 @57068 has 8 MA's), (40, 56987), (49, 56936), (56, 56879), (64, 56819),

Gene: Teng_40 Start: 24578, Stop: 24288, Start Num: 29

Candidate Starts for Teng_40:

(Start: 29 @24578 has 4 MA's), (33, 24545), (35, 24527), (41, 24473), (52, 24395), (54, 24386), (59, 24353),

Gene: Triscuit_88 Start: 53720, Stop: 53340, Start Num: 17

Candidate Starts for Triscuit_88:

(Start: 17 @53720 has 2 MA's), (20, 53711), (22, 53690), (30, 53636), (49, 53486), (55, 53438), (66, 53357),

Gene: Vitas_57 Start: 35546, Stop: 35863, Start Num: 28

Candidate Starts for Vitas_57:

(1, 34976), (Start: 28 @35546 has 10 MA's), (41, 35666), (50, 35723), (59, 35795),

Gene: Wilca_93 Start: 56287, Stop: 56012, Start Num: 32

Candidate Starts for Wilca_93:

(Start: 32 @56287 has 8 MA's), (39, 56227), (40, 56209), (49, 56158), (56, 56101), (64, 56041),