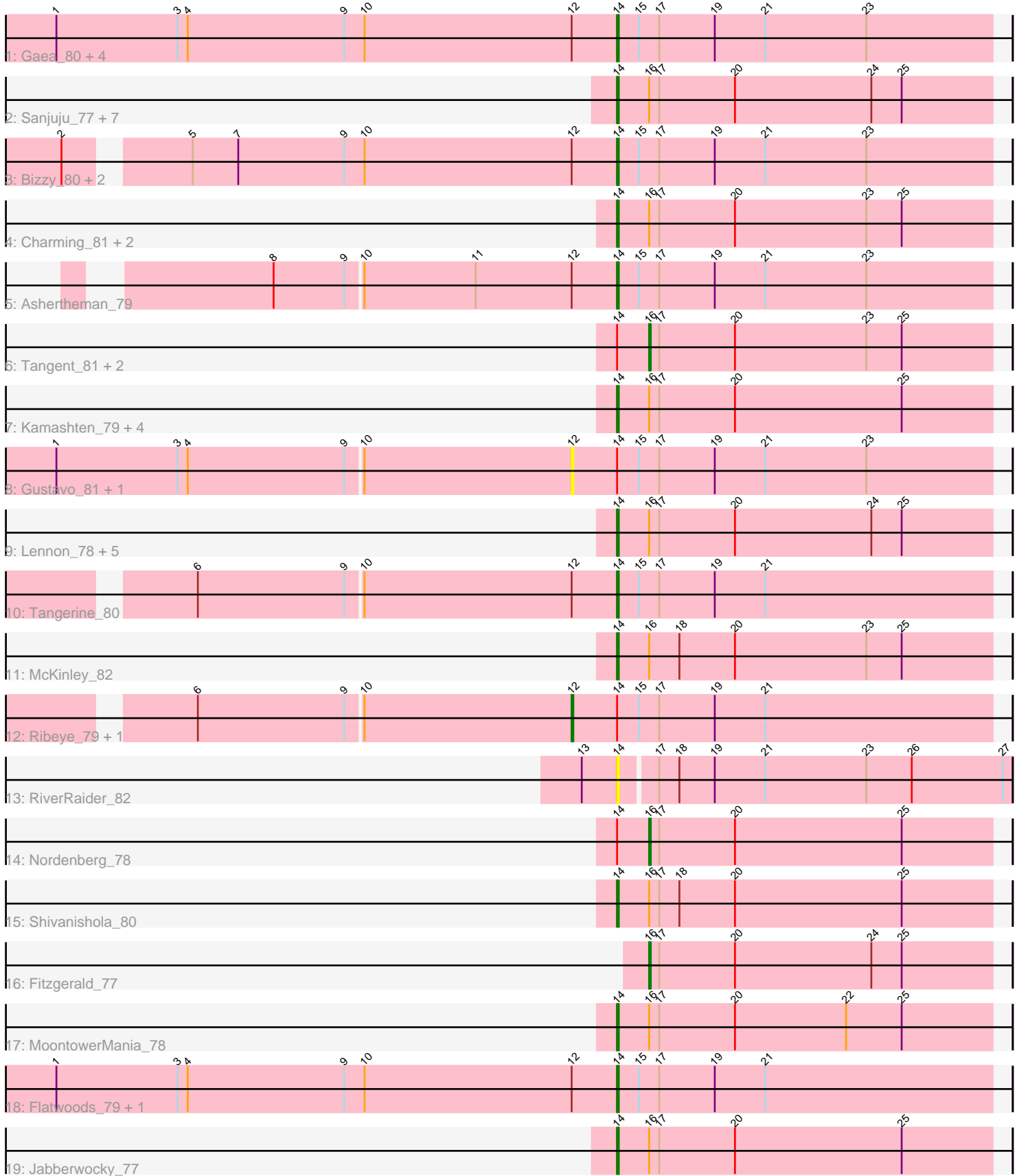


Pham 85886



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 85886 Report

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

Pham number 85886 has 48 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Gaea_80, JKSyngboy_77, SchottB_77, StorminNorm_80, Kroos_79
- Track 2 : Sanjuju_77, Sitar_78, Stultus_74, BobBob_80, Keitabear_77, Brandonk123_82, Ailee_76, Bibwit_77
- Track 3 : Bizzy_80, Kwobi_80, LilHam_73
- Track 4 : Charming_81, Kewpiedoll_78, Rofo_78
- Track 5 : Ashertheman_79
- Track 6 : Tangent_81, Fosterous_80, Vivi2_82
- Track 7 : Kamashten_79, Thing3_79, Paries_82, Love_85, Galadriel_79
- Track 8 : Gustavo_81, Saronaya_81
- Track 9 : Lennon_78, Geodirt_78, Barsten_80, Sedona_77, ChadMasterC_79, Baddon_77
- Track 10 : Tangerine_80
- Track 11 : McKinley_82
- Track 12 : Ribeye_79, Tycho_78
- Track 13 : RiverRaider_82
- Track 14 : Nordenberg_78
- Track 15 : Shivanishola_80
- Track 16 : Fitzgerald_77
- Track 17 : MoontowerMania_78
- Track 18 : Flatwoods_79, Baumdotcom_77
- Track 19 : Jabberwocky_77

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 33 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ailee_76, Ashertheman_79, Baddon_77, Barsten_80, Baumdotcom_77, Bibwit_77, Bizzy_80, BobBob_80, Brandonk123_82, ChadMasterC_79, Charming_81, Flatwoods_79, Gaea_80, Galadriel_79, Geodirt_78, JKSyngboy_77, Jabberwocky_77, Kamashten_79, Keitabear_77, Kewpiedoll_78, Kroos_79, Kwobi_80, Lennon_78, LilHam_73, Love_85, McKinley_82, MoontowerMania_78, Paries_82, RiverRaider_82, Rofo_78, Sanjuju_77, SchottB_77, Sedona_77,

Shivanishola_80, Sitar_78, StorminNorm_80, Stultus_74, Tangerine_80, Thing3_79,

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

- Fosterous_80, Gustavo_81, Nordenberg_78, Ribeye_79, Saronaya_81, Tangent_81, Tycho_78, Vivi2_82,

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

- Fitzgerald_77,

Summary by start number:

Start 12:

- Found in 16 of 48 (33.3%) of genes in pham
- Manual Annotations of this start: 1 of 39
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Gustavo_81 (DE1), Ribeye_79 (DE1), Saronaya_81 (DE1), Tycho_78 (DE1),

Start 14:

- Found in 47 of 48 (97.9%) of genes in pham
- Manual Annotations of this start: 33 of 39
- Called 83.0% of time when present
- Phage (with cluster) where this start called: Ailee_76 (DE1), Ashertheman_79 (DE1), Baddon_77 (DE1), Barsten_80 (DE1), Baumdotcom_77 (DE1), Bibwit_77 (DE1), Bizzy_80 (DE1), BobBob_80 (DE1), Brandonk123_82 (DE1), ChadMasterC_79 (DE1), Charming_81 (DE1), Flatwoods_79 (DE1), Gaea_80 (DE1), Galadriel_79 (DE1), Geodirt_78 (DE1), JKSyngboy_77 (DE1), Jabberwocky_77 (DE1), Kamashten_79 (DE1), Keitabear_77 (DE1), Kewpiedoll_78 (DE1), Kroos_79 (DE1), Kwobi_80 (DE1), Lennon_78 (DE1), LilHam_73 (DE1), Love_85 (DE1), McKinley_82 (DE1), MoontowerMania_78 (DE1), Paries_82 (DE1), RiverRaider_82 (DE1), Rofo_78 (DE1), Sanjuju_77 (DE1), SchottB_77 (DE1), Sedona_77 (DE1), Shivanishola_80 (DE1), Sitar_78 (DE1), StorminNorm_80 (DE1), Stultus_74 (DE1), Tangerine_80 (DE1), Thing3_79 (DE1),

Start 16:

- Found in 31 of 48 (64.6%) of genes in pham
- Manual Annotations of this start: 5 of 39
- Called 16.1% of time when present
- Phage (with cluster) where this start called: Fitzgerald_77 (DE1), Fosterous_80 (DE1), Nordenberg_78 (DE1), Tangent_81 (DE1), Vivi2_82 (DE1),

Summary by clusters:

There is one cluster represented in this pham: DE1

Info for manual annotations of cluster DE1:

- Start number 12 was manually annotated 1 time for cluster DE1.
- Start number 14 was manually annotated 33 times for cluster DE1.
- Start number 16 was manually annotated 5 times for cluster DE1.

Gene Information:

Gene: Ailee_76 Start: 55418, Stop: 55639, Start Num: 14

Candidate Starts for Ailee_76:

(Start: 14 @55418 has 33 MA's), (Start: 16 @55436 has 5 MA's), (17, 55442), (20, 55487), (24, 55568), (25, 55586),

Gene: Ashertheman_79 Start: 54904, Stop: 55125, Start Num: 14

Candidate Starts for Ashertheman_79:

(8, 54703), (9, 54745), (10, 54754), (11, 54820), (Start: 12 @54877 has 1 MA's), (Start: 14 @54904 has 33 MA's), (15, 54916), (17, 54928), (19, 54961), (21, 54991), (23, 55051),

Gene: Baddon_77 Start: 55538, Stop: 55759, Start Num: 14

Candidate Starts for Baddon_77:

(Start: 14 @55538 has 33 MA's), (Start: 16 @55556 has 5 MA's), (17, 55562), (20, 55607), (24, 55688), (25, 55706),

Gene: Barsten_80 Start: 56322, Stop: 56543, Start Num: 14

Candidate Starts for Barsten_80:

(Start: 14 @56322 has 33 MA's), (Start: 16 @56340 has 5 MA's), (17, 56346), (20, 56391), (24, 56472), (25, 56490),

Gene: Baumdotcom_77 Start: 55013, Stop: 55234, Start Num: 14

Candidate Starts for Baumdotcom_77:

(1, 54680), (3, 54752), (4, 54758), (9, 54851), (10, 54863), (Start: 12 @54986 has 1 MA's), (Start: 14 @55013 has 33 MA's), (15, 55025), (17, 55037), (19, 55070), (21, 55100),

Gene: Bibwit_77 Start: 55059, Stop: 55280, Start Num: 14

Candidate Starts for Bibwit_77:

(Start: 14 @55059 has 33 MA's), (Start: 16 @55077 has 5 MA's), (17, 55083), (20, 55128), (24, 55209), (25, 55227),

Gene: Bizzy_80 Start: 55086, Stop: 55307, Start Num: 14

Candidate Starts for Bizzy_80:

(2, 54774), (5, 54834), (7, 54861), (9, 54924), (10, 54936), (Start: 12 @55059 has 1 MA's), (Start: 14 @55086 has 33 MA's), (15, 55098), (17, 55110), (19, 55143), (21, 55173), (23, 55233),

Gene: BobBob_80 Start: 55584, Stop: 55805, Start Num: 14

Candidate Starts for BobBob_80:

(Start: 14 @55584 has 33 MA's), (Start: 16 @55602 has 5 MA's), (17, 55608), (20, 55653), (24, 55734), (25, 55752),

Gene: Brandonk123_82 Start: 55751, Stop: 55972, Start Num: 14

Candidate Starts for Brandonk123_82:

(Start: 14 @55751 has 33 MA's), (Start: 16 @55769 has 5 MA's), (17, 55775), (20, 55820), (24, 55901), (25, 55919),

Gene: ChadMasterC_79 Start: 57304, Stop: 57525, Start Num: 14

Candidate Starts for ChadMasterC_79:

(Start: 14 @57304 has 33 MA's), (Start: 16 @57322 has 5 MA's), (17, 57328), (20, 57373), (24, 57454), (25, 57472),

Gene: Charming_81 Start: 55030, Stop: 55251, Start Num: 14

Candidate Starts for Charming_81:

(Start: 14 @55030 has 33 MA's), (Start: 16 @55048 has 5 MA's), (17, 55054), (20, 55099), (23, 55177), (25, 55198),

Gene: Fitzgerald_77 Start: 56224, Stop: 56427, Start Num: 16

Candidate Starts for Fitzgerald_77:

(Start: 16 @56224 has 5 MA's), (17, 56230), (20, 56275), (24, 56356), (25, 56374),

Gene: Flatwoods_79 Start: 54235, Stop: 54456, Start Num: 14

Candidate Starts for Flatwoods_79:

(1, 53902), (3, 53974), (4, 53980), (9, 54073), (10, 54085), (Start: 12 @54208 has 1 MA's), (Start: 14 @54235 has 33 MA's), (15, 54247), (17, 54259), (19, 54292), (21, 54322),

Gene: Fosterous_80 Start: 56042, Stop: 56245, Start Num: 16

Candidate Starts for Fosterous_80:

(Start: 14 @56024 has 33 MA's), (Start: 16 @56042 has 5 MA's), (17, 56048), (20, 56093), (23, 56171), (25, 56192),

Gene: Gaea_80 Start: 54822, Stop: 55043, Start Num: 14

Candidate Starts for Gaea_80:

(1, 54489), (3, 54561), (4, 54567), (9, 54660), (10, 54672), (Start: 12 @54795 has 1 MA's), (Start: 14 @54822 has 33 MA's), (15, 54834), (17, 54846), (19, 54879), (21, 54909), (23, 54969),

Gene: Galadriel_79 Start: 56230, Stop: 56451, Start Num: 14

Candidate Starts for Galadriel_79:

(Start: 14 @56230 has 33 MA's), (Start: 16 @56248 has 5 MA's), (17, 56254), (20, 56299), (25, 56398),

Gene: Geodirt_78 Start: 56553, Stop: 56774, Start Num: 14

Candidate Starts for Geodirt_78:

(Start: 14 @56553 has 33 MA's), (Start: 16 @56571 has 5 MA's), (17, 56577), (20, 56622), (24, 56703), (25, 56721),

Gene: Gustavo_81 Start: 55777, Stop: 56025, Start Num: 12

Candidate Starts for Gustavo_81:

(1, 55474), (3, 55546), (4, 55552), (9, 55645), (10, 55654), (Start: 12 @55777 has 1 MA's), (Start: 14 @55804 has 33 MA's), (15, 55816), (17, 55828), (19, 55861), (21, 55891), (23, 55951),

Gene: JKSyngboy_77 Start: 55721, Stop: 55942, Start Num: 14

Candidate Starts for JKSyngboy_77:

(1, 55388), (3, 55460), (4, 55466), (9, 55559), (10, 55571), (Start: 12 @55694 has 1 MA's), (Start: 14 @55721 has 33 MA's), (15, 55733), (17, 55745), (19, 55778), (21, 55808), (23, 55868),

Gene: Jabberwocky_77 Start: 56431, Stop: 56652, Start Num: 14

Candidate Starts for Jabberwocky_77:

(Start: 14 @56431 has 33 MA's), (Start: 16 @56449 has 5 MA's), (17, 56455), (20, 56500), (25, 56599),

Gene: Kamashten_79 Start: 56124, Stop: 56345, Start Num: 14

Candidate Starts for Kamashten_79:

(Start: 14 @56124 has 33 MA's), (Start: 16 @56142 has 5 MA's), (17, 56148), (20, 56193), (25, 56292),

Gene: Keitabear_77 Start: 56980, Stop: 57201, Start Num: 14

Candidate Starts for Keitabear_77:

(Start: 14 @56980 has 33 MA's), (Start: 16 @56998 has 5 MA's), (17, 57004), (20, 57049), (24, 57130), (25, 57148),

Gene: Kewpiedoll_78 Start: 56216, Stop: 56437, Start Num: 14

Candidate Starts for Kewpiedoll_78:

(Start: 14 @56216 has 33 MA's), (Start: 16 @56234 has 5 MA's), (17, 56240), (20, 56285), (23, 56363), (25, 56384),

Gene: Kroos_79 Start: 55361, Stop: 55582, Start Num: 14

Candidate Starts for Kroos_79:

(1, 55028), (3, 55100), (4, 55106), (9, 55199), (10, 55211), (Start: 12 @55334 has 1 MA's), (Start: 14 @55361 has 33 MA's), (15, 55373), (17, 55385), (19, 55418), (21, 55448), (23, 55508),

Gene: Kwobi_80 Start: 55871, Stop: 56092, Start Num: 14

Candidate Starts for Kwobi_80:

(2, 55559), (5, 55619), (7, 55646), (9, 55709), (10, 55721), (Start: 12 @55844 has 1 MA's), (Start: 14 @55871 has 33 MA's), (15, 55883), (17, 55895), (19, 55928), (21, 55958), (23, 56018),

Gene: Lennon_78 Start: 57093, Stop: 57314, Start Num: 14

Candidate Starts for Lennon_78:

(Start: 14 @57093 has 33 MA's), (Start: 16 @57111 has 5 MA's), (17, 57117), (20, 57162), (24, 57243), (25, 57261),

Gene: LilHam_73 Start: 52953, Stop: 53174, Start Num: 14

Candidate Starts for LilHam_73:

(2, 52641), (5, 52701), (7, 52728), (9, 52791), (10, 52803), (Start: 12 @52926 has 1 MA's), (Start: 14 @52953 has 33 MA's), (15, 52965), (17, 52977), (19, 53010), (21, 53040), (23, 53100),

Gene: Love_85 Start: 57147, Stop: 57368, Start Num: 14

Candidate Starts for Love_85:

(Start: 14 @57147 has 33 MA's), (Start: 16 @57165 has 5 MA's), (17, 57171), (20, 57216), (25, 57315),

Gene: McKinley_82 Start: 56211, Stop: 56432, Start Num: 14

Candidate Starts for McKinley_82:

(Start: 14 @56211 has 33 MA's), (Start: 16 @56229 has 5 MA's), (18, 56247), (20, 56280), (23, 56358), (25, 56379),

Gene: MoontowerMania_78 Start: 56772, Stop: 56993, Start Num: 14

Candidate Starts for MoontowerMania_78:

(Start: 14 @56772 has 33 MA's), (Start: 16 @56790 has 5 MA's), (17, 56796), (20, 56841), (22, 56907), (25, 56940),

Gene: Nordenberg_78 Start: 54884, Stop: 55087, Start Num: 16

Candidate Starts for Nordenberg_78:

(Start: 14 @54866 has 33 MA's), (Start: 16 @54884 has 5 MA's), (17, 54890), (20, 54935), (25, 55034),

Gene: Paries_82 Start: 57153, Stop: 57374, Start Num: 14

Candidate Starts for Paries_82:

(Start: 14 @57153 has 33 MA's), (Start: 16 @57171 has 5 MA's), (17, 57177), (20, 57222), (25, 57321),

Gene: Ribeye_79 Start: 54920, Stop: 55168, Start Num: 12

Candidate Starts for Ribeye_79:

(6, 54701), (9, 54788), (10, 54797), (Start: 12 @54920 has 1 MA's), (Start: 14 @54947 has 33 MA's), (15, 54959), (17, 54971), (19, 55004), (21, 55034),

Gene: RiverRaider_82 Start: 54235, Stop: 54465, Start Num: 14

Candidate Starts for RiverRaider_82:

(13, 54214), (Start: 14 @54235 has 33 MA's), (17, 54256), (18, 54268), (19, 54289), (21, 54319), (23, 54379), (26, 54406), (27, 54460),

Gene: Rofo_78 Start: 55606, Stop: 55827, Start Num: 14

Candidate Starts for Rofo_78:

(Start: 14 @55606 has 33 MA's), (Start: 16 @55624 has 5 MA's), (17, 55630), (20, 55675), (23, 55753), (25, 55774),

Gene: Sanjuju_77 Start: 56295, Stop: 56516, Start Num: 14

Candidate Starts for Sanjuju_77:

(Start: 14 @56295 has 33 MA's), (Start: 16 @56313 has 5 MA's), (17, 56319), (20, 56364), (24, 56445), (25, 56463),

Gene: Saronaya_81 Start: 55777, Stop: 56025, Start Num: 12

Candidate Starts for Saronaya_81:

(1, 55474), (3, 55546), (4, 55552), (9, 55645), (10, 55654), (Start: 12 @55777 has 1 MA's), (Start: 14 @55804 has 33 MA's), (15, 55816), (17, 55828), (19, 55861), (21, 55891), (23, 55951),

Gene: SchottB_77 Start: 55428, Stop: 55649, Start Num: 14

Candidate Starts for SchottB_77:

(1, 55095), (3, 55167), (4, 55173), (9, 55266), (10, 55278), (Start: 12 @55401 has 1 MA's), (Start: 14 @55428 has 33 MA's), (15, 55440), (17, 55452), (19, 55485), (21, 55515), (23, 55575),

Gene: Sedona_77 Start: 56792, Stop: 57013, Start Num: 14

Candidate Starts for Sedona_77:

(Start: 14 @56792 has 33 MA's), (Start: 16 @56810 has 5 MA's), (17, 56816), (20, 56861), (24, 56942), (25, 56960),

Gene: Shivanishola_80 Start: 54717, Stop: 54938, Start Num: 14

Candidate Starts for Shivanishola_80:

(Start: 14 @54717 has 33 MA's), (Start: 16 @54735 has 5 MA's), (17, 54741), (18, 54753), (20, 54786), (25, 54885),

Gene: Sitar_78 Start: 56839, Stop: 57060, Start Num: 14

Candidate Starts for Sitar_78:

(Start: 14 @56839 has 33 MA's), (Start: 16 @56857 has 5 MA's), (17, 56863), (20, 56908), (24, 56989), (25, 57007),

Gene: StorminNorm_80 Start: 55598, Stop: 55819, Start Num: 14

Candidate Starts for StorminNorm_80:

(1, 55265), (3, 55337), (4, 55343), (9, 55436), (10, 55448), (Start: 12 @55571 has 1 MA's), (Start: 14 @55598 has 33 MA's), (15, 55610), (17, 55622), (19, 55655), (21, 55685), (23, 55745),

Gene: Stultus_74 Start: 55086, Stop: 55307, Start Num: 14

Candidate Starts for Stultus_74:

(Start: 14 @55086 has 33 MA's), (Start: 16 @55104 has 5 MA's), (17, 55110), (20, 55155), (24, 55236), (25, 55254),

Gene: Tangent_81 Start: 55329, Stop: 55532, Start Num: 16

Candidate Starts for Tangent_81:

(Start: 14 @55311 has 33 MA's), (Start: 16 @55329 has 5 MA's), (17, 55335), (20, 55380), (23, 55458), (25, 55479),

Gene: Tangerine_80 Start: 55080, Stop: 55301, Start Num: 14

Candidate Starts for Tangerine_80:

(6, 54834), (9, 54921), (10, 54930), (Start: 12 @55053 has 1 MA's), (Start: 14 @55080 has 33 MA's), (15, 55092), (17, 55104), (19, 55137), (21, 55167),

Gene: Thing3_79 Start: 56124, Stop: 56345, Start Num: 14

Candidate Starts for Thing3_79:

(Start: 14 @56124 has 33 MA's), (Start: 16 @56142 has 5 MA's), (17, 56148), (20, 56193), (25, 56292),

Gene: Tycho_78 Start: 54869, Stop: 55117, Start Num: 12

Candidate Starts for Tycho_78:

(6, 54650), (9, 54737), (10, 54746), (Start: 12 @54869 has 1 MA's), (Start: 14 @54896 has 33 MA's), (15, 54908), (17, 54920), (19, 54953), (21, 54983),

Gene: Vivi2_82 Start: 56385, Stop: 56588, Start Num: 16

Candidate Starts for Vivi2_82:

(Start: 14 @56367 has 33 MA's), (Start: 16 @56385 has 5 MA's), (17, 56391), (20, 56436), (23, 56514), (25, 56535),