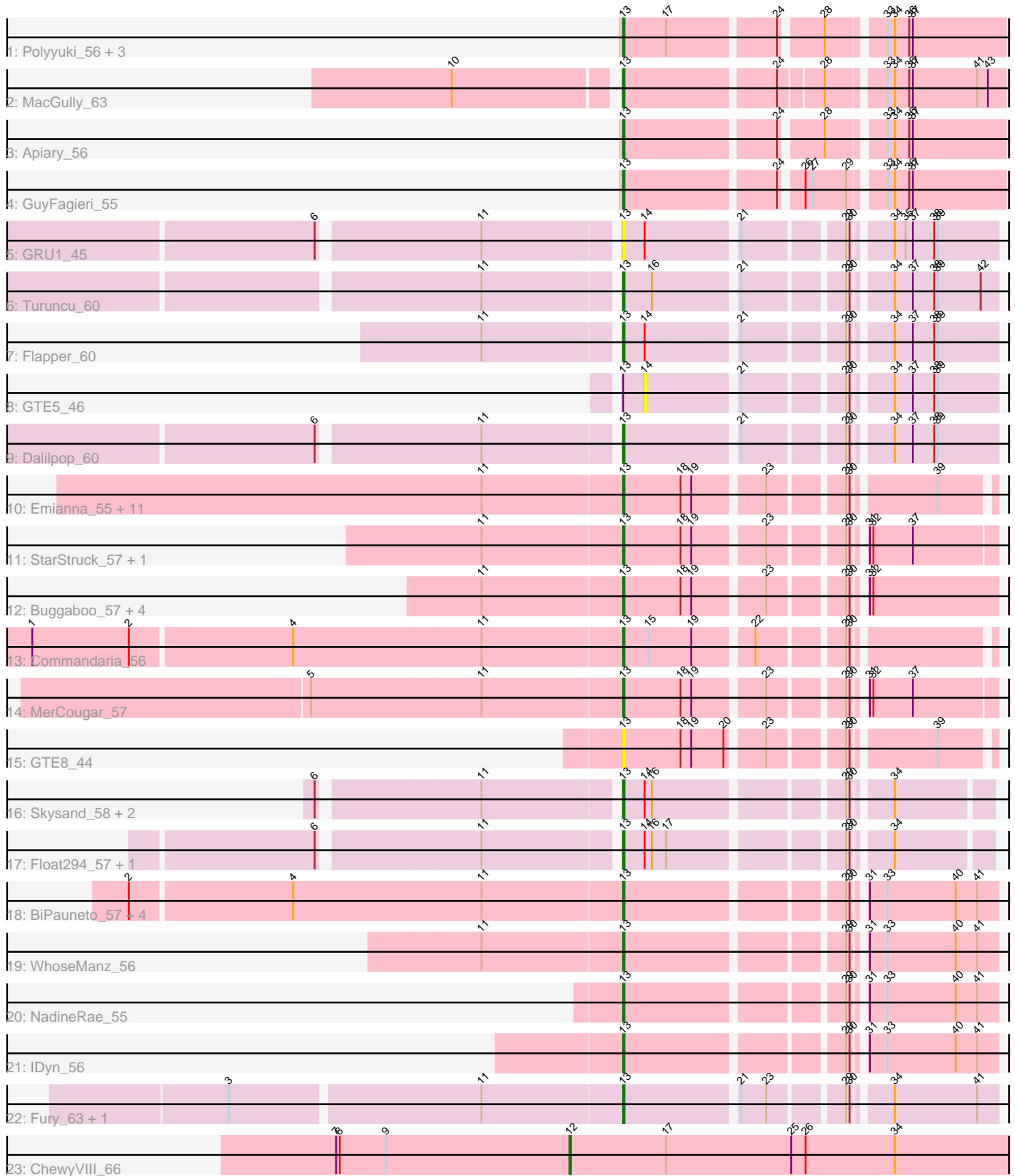


Pham 72180



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 72180 Report

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

Pham number 72180 has 50 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Polyuyuki_56, Maselop_56, Braxoaddie_56, CoffeeBean_57
- Track 2 : MacGully_63
- Track 3 : Apiary_56
- Track 4 : GuyFagieri_55
- Track 5 : GRU1_45
- Track 6 : Turuncu_60
- Track 7 : Flapper_60
- Track 8 : GTE5_46
- Track 9 : Dalilpop_60
- Track 10 : Emianna_55, Kurt_55, NatB6_55, GrootJr_57, KidneyBean_55, Wheezy_55, NovumRegina_55, Arti_55, Jifall16_54, Tracker_55, Foxboro_56, Phomeo_54
- Track 11 : StarStruck_57, Outis_57
- Track 12 : Buggaboo_57, Kabluna_59, SuperSulley_57, Bonum_59, NosilaM_59
- Track 13 : Commandaria_56
- Track 14 : MerCougar_57
- Track 15 : GTE8_44
- Track 16 : Skysand_58, Lollipop1437_60, Patio_59
- Track 17 : Float294_57, Ennea_62
- Track 18 : BiPauneto_57, Marietta_57, Sukkupi_56, HubbaBubba_52, Yndexa_56
- Track 19 : WhoseManz_56
- Track 20 : NadineRae_55
- Track 21 : IDyn_56
- Track 22 : Fury_63, Pleakley_63
- Track 23 : ChewyVIII_66

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

The start number called the most often in the published annotations is 13, it was called in 43 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Apiary_56, Arti_55, BiPauneto_57, Bonum_59, Braxoaddie_56, Buggaboo_57, CoffeeBean_57, Commandaria_56, Dalilpop_60, Emianna_55, Ennea_62,

Flapper_60, Float294_57, Foxboro_56, Fury_63, GRU1_45, GTE8_44, GrootJr_57, GuyFagieri_55, HubbaBubba_52, IDyn_56, Jifall16_54, Kabluna_59, KidneyBean_55, Kurt_55, Lollipop1437_60, MacGully_63, Marietta_57, Maselop_56, MerCougar_57, NadineRae_55, NatB6_55, NosilaM_59, NovumRegina_55, Outis_57, Patio_59, Phomeo_54, Pleakley_63, Polyyuki_56, Skysand_58, StarStruck_57, Sukkupi_56, SuperSulley_57, Tracker_55, Turuncu_60, Wheezy_55, WhoseManz_56, Yndexa_56,

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

- GTE5_46,

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

- ChewyVIII_66,

Summary by start number:

Start 12:

- Found in 1 of 50 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ChewyVIII_66 (singleton),

Start 13:

- Found in 49 of 50 (98.0%) of genes in pham
- Manual Annotations of this start: 43 of 44
- Called 98.0% of time when present
- Phage (with cluster) where this start called: Apiary_56 (CR), Arti_55 (CR2), BiPauneto_57 (CR4), Bonum_59 (CR2), Braxoaddie_56 (CR), Buggaboo_57 (CR2), CoffeeBean_57 (CR), Commandaria_56 (CR2), Dalilpop_60 (CR1), Emianna_55 (CR2), Ennea_62 (CR3), Flapper_60 (CR1), Float294_57 (CR3), Foxboro_56 (CR2), Fury_63 (CR5), GRU1_45 (CR1), GTE8_44 (CR2), GrootJr_57 (CR2), GuyFagieri_55 (CR), HubbaBubba_52 (CR4), IDyn_56 (CR4), Jifall16_54 (CR2), Kabluna_59 (CR2), KidneyBean_55 (CR2), Kurt_55 (CR2), Lollipop1437_60 (CR3), MacGully_63 (CR), Marietta_57 (CR4), Maselop_56 (CR), MerCougar_57 (CR2), NadineRae_55 (CR4), NatB6_55 (CR2), NosilaM_59 (CR2), NovumRegina_55 (CR2), Outis_57 (CR2), Patio_59 (CR3), Phomeo_54 (CR2), Pleakley_63 (CR5), Polyyuki_56 (CR), Skysand_58 (CR3), StarStruck_57 (CR2), Sukkupi_56 (CR4), SuperSulley_57 (CR2), Tracker_55 (CR2), Turuncu_60 (CR1), Wheezy_55 (CR2), WhoseManz_56 (CR4), Yndexa_56 (CR4),

Start 14:

- Found in 8 of 50 (16.0%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: GTE5_46 (CR1),

Summary by clusters:

There are 7 clusters represented in this pham: CR2, CR3, singleton, CR1, CR4, CR5, CR,

Info for manual annotations of cluster CR:

- Start number 13 was manually annotated 6 times for cluster CR.

Info for manual annotations of cluster CR1:

- Start number 13 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 13 was manually annotated 20 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 13 was manually annotated 5 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 13 was manually annotated 7 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 13 was manually annotated 2 times for cluster CR5.

Gene Information:

Gene: Apiary_56 Start: 41106, Stop: 40816, Start Num: 13

Candidate Starts for Apiary_56:

(Start: 13 @41106 has 43 MA's), (24, 40986), (28, 40956), (33, 40914), (34, 40908), (36, 40896), (37, 40893),

Gene: Arti_55 Start: 43119, Stop: 42847, Start Num: 13

Candidate Starts for Arti_55:

(11, 43224), (Start: 13 @43119 has 43 MA's), (18, 43071), (19, 43062), (23, 43008), (29, 42954), (30, 42951), (39, 42888),

Gene: BiPauneto_57 Start: 42637, Stop: 42356, Start Num: 13

Candidate Starts for BiPauneto_57:

(2, 43027), (4, 42895), (11, 42739), (Start: 13 @42637 has 43 MA's), (29, 42472), (30, 42469), (31, 42463), (33, 42448), (40, 42391), (41, 42373),

Gene: Bonum_59 Start: 43777, Stop: 43496, Start Num: 13

Candidate Starts for Bonum_59:

(11, 43882), (Start: 13 @43777 has 43 MA's), (18, 43729), (19, 43720), (23, 43666), (29, 43612), (30, 43609), (31, 43603), (32, 43600),

Gene: Braxoaddie_56 Start: 41095, Stop: 40805, Start Num: 13

Candidate Starts for Braxoaddie_56:

(Start: 13 @41095 has 43 MA's), (17, 41059), (24, 40975), (28, 40945), (33, 40903), (34, 40897), (36, 40885), (37, 40882),

Gene: Buggaboo_57 Start: 44256, Stop: 43975, Start Num: 13

Candidate Starts for Buggaboo_57:

(11, 44361), (Start: 13 @44256 has 43 MA's), (18, 44208), (19, 44199), (23, 44145), (29, 44091), (30, 44088), (31, 44082), (32, 44079),

Gene: ChewyVIII_66 Start: 48357, Stop: 47989, Start Num: 12

Candidate Starts for ChewyVIII_66:

(7, 48552), (8, 48549), (9, 48510), (Start: 12 @48357 has 1 MA's), (17, 48276), (25, 48171), (26, 48159), (34, 48084),

Gene: CoffeeBean_57 Start: 41053, Stop: 40763, Start Num: 13

Candidate Starts for CoffeeBean_57:

(Start: 13 @41053 has 43 MA's), (17, 41017), (24, 40933), (28, 40903), (33, 40861), (34, 40855), (36, 40843), (37, 40840),

Gene: Commandaria_56 Start: 44240, Stop: 43968, Start Num: 13

Candidate Starts for Commandaria_56:

(1, 44714), (2, 44633), (4, 44501), (11, 44345), (Start: 13 @44240 has 43 MA's), (15, 44219), (19, 44183), (22, 44138), (29, 44075), (30, 44072),

Gene: Dalilpop_60 Start: 45426, Stop: 45145, Start Num: 13

Candidate Starts for Dalilpop_60:

(6, 45660), (11, 45534), (Start: 13 @45426 has 43 MA's), (21, 45336), (29, 45261), (30, 45258), (34, 45231), (37, 45216), (38, 45198), (39, 45195),

Gene: Emianna_55 Start: 44111, Stop: 43839, Start Num: 13

Candidate Starts for Emianna_55:

(11, 44216), (Start: 13 @44111 has 43 MA's), (18, 44063), (19, 44054), (23, 44000), (29, 43946), (30, 43943), (39, 43880),

Gene: Ennea_62 Start: 45133, Stop: 44861, Start Num: 13

Candidate Starts for Ennea_62:

(6, 45367), (11, 45241), (Start: 13 @45133 has 43 MA's), (14, 45115), (16, 45109), (17, 45097), (29, 44968), (30, 44965), (34, 44938),

Gene: Flapper_60 Start: 44858, Stop: 44577, Start Num: 13

Candidate Starts for Flapper_60:

(11, 44966), (Start: 13 @44858 has 43 MA's), (14, 44840), (21, 44768), (29, 44693), (30, 44690), (34, 44663), (37, 44648), (38, 44630), (39, 44627),

Gene: Float294_57 Start: 44575, Stop: 44303, Start Num: 13

Candidate Starts for Float294_57:

(6, 44809), (11, 44683), (Start: 13 @44575 has 43 MA's), (14, 44557), (16, 44551), (17, 44539), (29, 44410), (30, 44407), (34, 44380),

Gene: Foxboro_56 Start: 44617, Stop: 44345, Start Num: 13

Candidate Starts for Foxboro_56:

(11, 44722), (Start: 13 @44617 has 43 MA's), (18, 44569), (19, 44560), (23, 44506), (29, 44452), (30, 44449), (39, 44386),

Gene: Fury_63 Start: 43307, Stop: 43026, Start Num: 13

Candidate Starts for Fury_63:

(3, 43613), (11, 43412), (Start: 13 @43307 has 43 MA's), (21, 43217), (23, 43196), (29, 43142), (30, 43139), (34, 43112), (41, 43043),

Gene: GRU1_45 Start: 36404, Stop: 36123, Start Num: 13

Candidate Starts for GRU1_45:

(6, 36638), (11, 36512), (Start: 13 @36404 has 43 MA's), (14, 36386), (21, 36314), (29, 36239), (30, 36236), (34, 36209), (35, 36200), (37, 36194), (38, 36176), (39, 36173),

Gene: GTE5_46 Start: 37696, Stop: 37433, Start Num: 14

Candidate Starts for GTE5_46:

(Start: 13 @37714 has 43 MA's), (14, 37696), (21, 37624), (29, 37549), (30, 37546), (34, 37519), (37, 37504), (38, 37486), (39, 37483),

Gene: GTE8_44 Start: 37374, Stop: 37102, Start Num: 13

Candidate Starts for GTE8_44:

(Start: 13 @37374 has 43 MA's), (18, 37326), (19, 37317), (20, 37290), (23, 37263), (29, 37209), (30, 37206), (39, 37143),

Gene: GrootJr_57 Start: 43493, Stop: 43221, Start Num: 13

Candidate Starts for GrootJr_57:

(11, 43598), (Start: 13 @43493 has 43 MA's), (18, 43445), (19, 43436), (23, 43382), (29, 43328), (30, 43325), (39, 43262),

Gene: GuyFagieri_55 Start: 41287, Stop: 40997, Start Num: 13

Candidate Starts for GuyFagieri_55:

(Start: 13 @41287 has 43 MA's), (24, 41167), (26, 41152), (27, 41146), (29, 41119), (33, 41095), (34, 41089), (36, 41077), (37, 41074),

Gene: HubbaBubba_52 Start: 39646, Stop: 39365, Start Num: 13

Candidate Starts for HubbaBubba_52:

(2, 40036), (4, 39904), (11, 39748), (Start: 13 @39646 has 43 MA's), (29, 39481), (30, 39478), (31, 39472), (33, 39457), (40, 39400), (41, 39382),

Gene: IDyn_56 Start: 41078, Stop: 40797, Start Num: 13

Candidate Starts for IDyn_56:

(Start: 13 @41078 has 43 MA's), (29, 40913), (30, 40910), (31, 40904), (33, 40889), (40, 40832), (41, 40814),

Gene: Jifall16_54 Start: 43765, Stop: 43493, Start Num: 13

Candidate Starts for Jifall16_54:

(11, 43870), (Start: 13 @43765 has 43 MA's), (18, 43717), (19, 43708), (23, 43654), (29, 43600), (30, 43597), (39, 43534),

Gene: Kabluna_59 Start: 43192, Stop: 42911, Start Num: 13

Candidate Starts for Kabluna_59:

(11, 43297), (Start: 13 @43192 has 43 MA's), (18, 43144), (19, 43135), (23, 43081), (29, 43027), (30, 43024), (31, 43018), (32, 43015),

Gene: KidneyBean_55 Start: 43889, Stop: 43617, Start Num: 13

Candidate Starts for KidneyBean_55:

(11, 43994), (Start: 13 @43889 has 43 MA's), (18, 43841), (19, 43832), (23, 43778), (29, 43724), (30, 43721), (39, 43658),

Gene: Kurt_55 Start: 44126, Stop: 43854, Start Num: 13

Candidate Starts for Kurt_55:

(11, 44231), (Start: 13 @44126 has 43 MA's), (18, 44078), (19, 44069), (23, 44015), (29, 43961), (30, 43958), (39, 43895),

Gene: Lollipop1437_60 Start: 45121, Stop: 44849, Start Num: 13

Candidate Starts for Lollipop1437_60:

(6, 45355), (11, 45229), (Start: 13 @45121 has 43 MA's), (14, 45103), (16, 45097), (29, 44956), (30, 44953), (34, 44926),

Gene: MacGully_63 Start: 43366, Stop: 43073, Start Num: 13

Candidate Starts for MacGully_63:

(10, 43495), (Start: 13 @43366 has 43 MA's), (24, 43246), (28, 43213), (33, 43171), (34, 43165), (36, 43153), (37, 43150), (41, 43096), (43, 43087),

Gene: Marietta_57 Start: 40972, Stop: 40691, Start Num: 13

Candidate Starts for Marietta_57:

(2, 41362), (4, 41230), (11, 41074), (Start: 13 @40972 has 43 MA's), (29, 40807), (30, 40804), (31, 40798), (33, 40783), (40, 40726), (41, 40708),

Gene: Maselop_56 Start: 41129, Stop: 40839, Start Num: 13

Candidate Starts for Maselop_56:

(Start: 13 @41129 has 43 MA's), (17, 41093), (24, 41009), (28, 40979), (33, 40937), (34, 40931), (36, 40919), (37, 40916),

Gene: MerCougar_57 Start: 44390, Stop: 44112, Start Num: 13

Candidate Starts for MerCougar_57:

(5, 44636), (11, 44495), (Start: 13 @44390 has 43 MA's), (18, 44342), (19, 44333), (23, 44279), (29, 44225), (30, 44222), (31, 44216), (32, 44213), (37, 44180),

Gene: NadineRae_55 Start: 40216, Stop: 39935, Start Num: 13

Candidate Starts for NadineRae_55:

(Start: 13 @40216 has 43 MA's), (29, 40051), (30, 40048), (31, 40042), (33, 40027), (40, 39970), (41, 39952),

Gene: NatB6_55 Start: 43183, Stop: 42911, Start Num: 13

Candidate Starts for NatB6_55:

(11, 43288), (Start: 13 @43183 has 43 MA's), (18, 43135), (19, 43126), (23, 43072), (29, 43018), (30, 43015), (39, 42952),

Gene: NosilaM_59 Start: 44090, Stop: 43809, Start Num: 13

Candidate Starts for NosilaM_59:

(11, 44195), (Start: 13 @44090 has 43 MA's), (18, 44042), (19, 44033), (23, 43979), (29, 43925), (30, 43922), (31, 43916), (32, 43913),

Gene: NovumRegina_55 Start: 43492, Stop: 43220, Start Num: 13

Candidate Starts for NovumRegina_55:

(11, 43597), (Start: 13 @43492 has 43 MA's), (18, 43444), (19, 43435), (23, 43381), (29, 43327), (30, 43324), (39, 43261),

Gene: Outis_57 Start: 44084, Stop: 43806, Start Num: 13

Candidate Starts for Outis_57:

(11, 44189), (Start: 13 @44084 has 43 MA's), (18, 44036), (19, 44027), (23, 43973), (29, 43919), (30, 43916), (31, 43910), (32, 43907), (37, 43874),

Gene: Patio_59 Start: 44357, Stop: 44085, Start Num: 13

Candidate Starts for Patio_59:

(6, 44591), (11, 44465), (Start: 13 @44357 has 43 MA's), (14, 44339), (16, 44333), (29, 44192), (30, 44189), (34, 44162),

Gene: Phomeo_54 Start: 43761, Stop: 43489, Start Num: 13

Candidate Starts for Phomeo_54:

(11, 43866), (Start: 13 @43761 has 43 MA's), (18, 43713), (19, 43704), (23, 43650), (29, 43596), (30, 43593), (39, 43530),

Gene: Pleakley_63 Start: 43308, Stop: 43027, Start Num: 13

Candidate Starts for Pleakley_63:

(3, 43614), (11, 43413), (Start: 13 @43308 has 43 MA's), (21, 43218), (23, 43197), (29, 43143), (30, 43140), (34, 43113), (41, 43044),

Gene: Polyuyki_56 Start: 41118, Stop: 40828, Start Num: 13

Candidate Starts for Polyuyki_56:

(Start: 13 @41118 has 43 MA's), (17, 41082), (24, 40998), (28, 40968), (33, 40926), (34, 40920), (36, 40908), (37, 40905),

Gene: Skysand_58 Start: 44577, Stop: 44305, Start Num: 13

Candidate Starts for Skysand_58:

(6, 44811), (11, 44685), (Start: 13 @44577 has 43 MA's), (14, 44559), (16, 44553), (29, 44412), (30, 44409), (34, 44382),

Gene: StarStruck_57 Start: 44084, Stop: 43806, Start Num: 13

Candidate Starts for StarStruck_57:

(11, 44189), (Start: 13 @44084 has 43 MA's), (18, 44036), (19, 44027), (23, 43973), (29, 43919), (30, 43916), (31, 43910), (32, 43907), (37, 43874),

Gene: Sukkupi_56 Start: 42528, Stop: 42247, Start Num: 13

Candidate Starts for Sukkupi_56:

(2, 42918), (4, 42786), (11, 42630), (Start: 13 @42528 has 43 MA's), (29, 42363), (30, 42360), (31, 42354), (33, 42339), (40, 42282), (41, 42264),

Gene: SuperSulley_57 Start: 44256, Stop: 43975, Start Num: 13

Candidate Starts for SuperSulley_57:

(11, 44361), (Start: 13 @44256 has 43 MA's), (18, 44208), (19, 44199), (23, 44145), (29, 44091), (30, 44088), (31, 44082), (32, 44079),

Gene: Tracker_55 Start: 42907, Stop: 42635, Start Num: 13

Candidate Starts for Tracker_55:

(11, 43012), (Start: 13 @42907 has 43 MA's), (18, 42859), (19, 42850), (23, 42796), (29, 42742), (30, 42739), (39, 42676),

Gene: Turuncu_60 Start: 44520, Stop: 44239, Start Num: 13

Candidate Starts for Turuncu_60:

(11, 44628), (Start: 13 @44520 has 43 MA's), (16, 44496), (21, 44430), (29, 44355), (30, 44352), (34, 44325), (37, 44310), (38, 44292), (39, 44289), (42, 44253),

Gene: Wheezy_55 Start: 43115, Stop: 42843, Start Num: 13

Candidate Starts for Wheezy_55:

(11, 43220), (Start: 13 @43115 has 43 MA's), (18, 43067), (19, 43058), (23, 43004), (29, 42950), (30, 42947), (39, 42884),

Gene: WhoseManz_56 Start: 40585, Stop: 40304, Start Num: 13

Candidate Starts for WhoseManz_56:

(11, 40687), (Start: 13 @40585 has 43 MA's), (29, 40420), (30, 40417), (31, 40411), (33, 40396), (40, 40339), (41, 40321),

Gene: Yndexa_56 Start: 42528, Stop: 42247, Start Num: 13

Candidate Starts for Yndexa_56:

(2, 42918), (4, 42786), (11, 42630), (Start: 13 @42528 has 43 MA's), (29, 42363), (30, 42360), (31, 42354), (33, 42339), (40, 42282), (41, 42264),