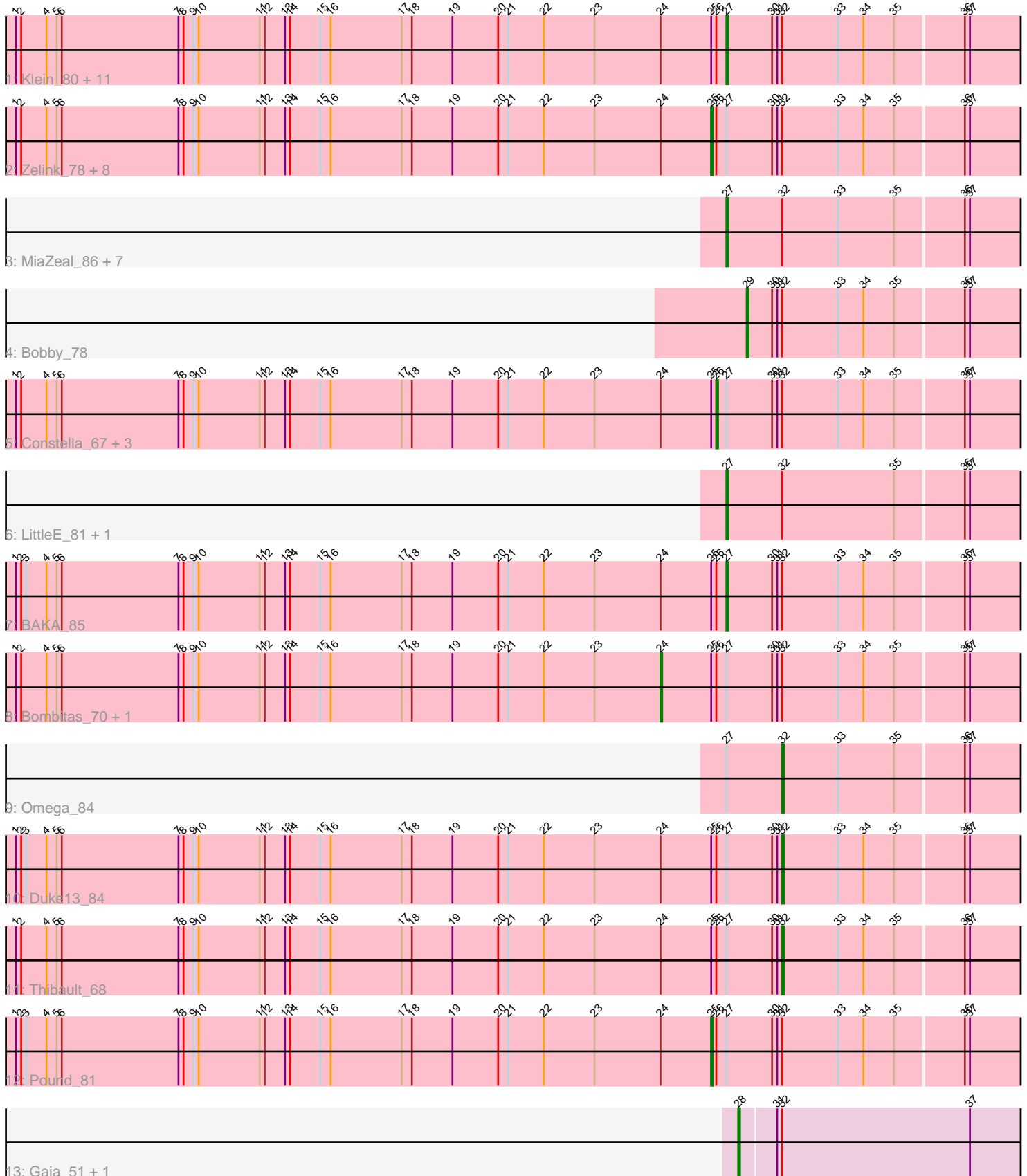


Pham 85910



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 85910 Report

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

Pham number 85910 has 45 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Klein_80, Dove_68, Yeet_75, Minerva_83, KashFlow_75, Dallas_79, Beem_80, DmpstrDiver_81, Wanda_84, Ejimix_80, Halley_82, Schatzie_76
- Track 2 : Zelink_78, HokkenD_72, NihilNomen_81, Phoebus_83, EricMillard_79, Bagrid_81, Odette_79, Redno2_77, ThreeRngTarjay_78
- Track 3 : MiaZeal_86, Lucky2013_83, Courthouse_81, Ariel_85, Superphikiman_83, Porcelain_85, Squint_86, Hannaconda_74
- Track 4 : Bobby_78
- Track 5 : Constella_67, Kalah2_75, Optimus_78, JuicyJay_78
- Track 6 : LittleE_81, Gonephishing_75
- Track 7 : BAKA_85
- Track 8 : Bombitas_70, Hughesyang_80
- Track 9 : Omega_84
- Track 10 : Duke13_84
- Track 11 : Thibault_68
- Track 12 : Pound_81
- Track 13 : Gaia_51, Nebkiss_55

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

The start number called the most often in the published annotations is 27, it was called in 21 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_85, BAKA_85, Beem_80, Courthouse_81, Dallas_79, DmpstrDiver_81, Dove_68, Ejimix_80, Gonephishing_75, Halley_82, Hannaconda_74, KashFlow_75, Klein_80, LittleE_81, Lucky2013_83, MiaZeal_86, Minerva_83, Porcelain_85, Schatzie_76, Squint_86, Superphikiman_83, Wanda_84, Yeet_75,

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

- Bagrid_81, Bombitas_70, Constella_67, Duke13_84, EricMillard_79, HokkenD_72, Hughesyang_80, JuicyJay_78, Kalah2_75, NihilNomen_81, Odette_79, Omega_84, Optimus_78, Phoebus_83, Pound_81, Redno2_77, Thibault_68, ThreeRngTarjay_78, Zelink_78,

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

- Bobby_78, Gaia_51, Nebkiss_55,

Summary by start number:

Start 24:

- Found in 31 of 45 (68.9%) of genes in pham
- Manual Annotations of this start: 2 of 41
- Called 6.5% of time when present
- Phage (with cluster) where this start called: Bombitas_70 (J), Hughesyang_80 (J),

Start 25:

- Found in 31 of 45 (68.9%) of genes in pham
- Manual Annotations of this start: 8 of 41
- Called 32.3% of time when present
- Phage (with cluster) where this start called: Bagrid_81 (J), EricMillard_79 (J), HokkenD_72 (J), NihilNomen_81 (J), Odette_79 (J), Phoebus_83 (J), Pound_81 (J), Redno2_77 (J), ThreeRngTarjay_78 (J), Zelink_78 (J),

Start 26:

- Found in 31 of 45 (68.9%) of genes in pham
- Manual Annotations of this start: 4 of 41
- Called 12.9% of time when present
- Phage (with cluster) where this start called: Constella_67 (J), JuicyJay_78 (J), Kalah2_75 (J), Optimus_78 (J),

Start 27:

- Found in 42 of 45 (93.3%) of genes in pham
- Manual Annotations of this start: 21 of 41
- Called 54.8% of time when present
- Phage (with cluster) where this start called: Ariel_85 (J), BAKA_85 (J), Beem_80 (J), Courthouse_81 (J), Dallas_79 (J), DmpstrDiver_81 (J), Dove_68 (J), Ejimix_80 (J), Gonephishing_75 (J), Halley_82 (J), Hannaconda_74 (J), KashFlow_75 (J), Klein_80 (J), LittleE_81 (J), Lucky2013_83 (J), MiaZeal_86 (J), Minerva_83 (J), Porcelain_85 (J), Schatzie_76 (J), Squint_86 (J), Superphikiman_83 (J), Wanda_84 (J), Yeet_75 (J),

Start 28:

- Found in 2 of 45 (4.4%) of genes in pham
- Manual Annotations of this start: 2 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_51 (X), Nebkiss_55 (X),

Start 29:

- Found in 1 of 45 (2.2%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bobby_78 (J),

Start 32:

- Found in 45 of 45 (100.0%) of genes in pham
- Manual Annotations of this start: 3 of 41
- Called 6.7% of time when present

- Phage (with cluster) where this start called: Duke13_84 (J), Omega_84 (J), Thibault_68 (J),

Summary by clusters:

There are 2 clusters represented in this pham: X, J,

Info for manual annotations of cluster J:

- Start number 24 was manually annotated 2 times for cluster J.
- Start number 25 was manually annotated 8 times for cluster J.
- Start number 26 was manually annotated 4 times for cluster J.
- Start number 27 was manually annotated 21 times for cluster J.
- Start number 29 was manually annotated 1 time for cluster J.
- Start number 32 was manually annotated 3 times for cluster J.

Info for manual annotations of cluster X:

- Start number 28 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Ariel_85 Start: 50017, Stop: 49820, Start Num: 27

Candidate Starts for Ariel_85:

(Start: 27 @50017 has 21 MA's), (Start: 32 @49984 has 3 MA's), (33, 49951), (35, 49918), (36, 49879), (37, 49876),

Gene: BAKA_85 Start: 53475, Stop: 53278, Start Num: 27

Candidate Starts for BAKA_85:

(1, 53895), (2, 53892), (3, 53889), (4, 53877), (5, 53871), (6, 53868), (7, 53799), (8, 53796), (9, 53790), (10, 53787), (11, 53751), (12, 53748), (13, 53736), (14, 53733), (15, 53715), (16, 53709), (17, 53667), (18, 53661), (19, 53637), (20, 53610), (21, 53604), (22, 53583), (23, 53553), (Start: 24 @53514 has 2 MA's), (Start: 25 @53484 has 8 MA's), (Start: 26 @53481 has 4 MA's), (Start: 27 @53475 has 21 MA's), (30, 53448), (31, 53445), (Start: 32 @53442 has 3 MA's), (33, 53409), (34, 53394), (35, 53376), (36, 53337), (37, 53334),

Gene: Bagrid_81 Start: 52134, Stop: 51928, Start Num: 25

Candidate Starts for Bagrid_81:

(1, 52545), (2, 52542), (4, 52527), (5, 52521), (6, 52518), (7, 52449), (8, 52446), (9, 52440), (10, 52437), (11, 52401), (12, 52398), (13, 52386), (14, 52383), (15, 52365), (16, 52359), (17, 52317), (18, 52311), (19, 52287), (20, 52260), (21, 52254), (22, 52233), (23, 52203), (Start: 24 @52164 has 2 MA's), (Start: 25 @52134 has 8 MA's), (Start: 26 @52131 has 4 MA's), (Start: 27 @52125 has 21 MA's), (30, 52098), (31, 52095), (Start: 32 @52092 has 3 MA's), (33, 52059), (34, 52044), (35, 52026), (36, 51987), (37, 51984),

Gene: Beem_80 Start: 52986, Stop: 52789, Start Num: 27

Candidate Starts for Beem_80:

(1, 53406), (2, 53403), (4, 53388), (5, 53382), (6, 53379), (7, 53310), (8, 53307), (9, 53301), (10, 53298), (11, 53262), (12, 53259), (13, 53247), (14, 53244), (15, 53226), (16, 53220), (17, 53178), (18, 53172), (19, 53148), (20, 53121), (21, 53115), (22, 53094), (23, 53064), (Start: 24 @53025 has 2 MA's), (Start: 25 @52995 has 8 MA's), (Start: 26 @52992 has 4 MA's), (Start: 27 @52986 has 21 MA's), (30, 52959), (31, 52956), (Start: 32 @52953 has 3 MA's), (33, 52920), (34, 52905), (35, 52887), (36, 52848), (37, 52845),

Gene: Bobby_78 Start: 52081, Stop: 51896, Start Num: 29

Candidate Starts for Bobby_78:

(Start: 29 @52081 has 1 MA's), (30, 52066), (31, 52063), (Start: 32 @52060 has 3 MA's), (33, 52027), (34, 52012), (35, 51994), (36, 51955), (37, 51952),

Gene: Bombitas_70 Start: 50188, Stop: 49952, Start Num: 24

Candidate Starts for Bombitas_70:

(1, 50569), (2, 50566), (4, 50551), (5, 50545), (6, 50542), (7, 50473), (8, 50470), (9, 50464), (10, 50461), (11, 50425), (12, 50422), (13, 50410), (14, 50407), (15, 50389), (16, 50383), (17, 50341), (18, 50335), (19, 50311), (20, 50284), (21, 50278), (22, 50257), (23, 50227), (Start: 24 @50188 has 2 MA's), (Start: 25 @50158 has 8 MA's), (Start: 26 @50155 has 4 MA's), (Start: 27 @50149 has 21 MA's), (30, 50122), (31, 50119), (Start: 32 @50116 has 3 MA's), (33, 50083), (34, 50068), (35, 50050), (36, 50011), (37, 50008),

Gene: Constella_67 Start: 47129, Stop: 46926, Start Num: 26

Candidate Starts for Constella_67:

(1, 47543), (2, 47540), (4, 47525), (5, 47519), (6, 47516), (7, 47447), (8, 47444), (9, 47438), (10, 47435), (11, 47399), (12, 47396), (13, 47384), (14, 47381), (15, 47363), (16, 47357), (17, 47315), (18, 47309), (19, 47285), (20, 47258), (21, 47252), (22, 47231), (23, 47201), (Start: 24 @47162 has 2 MA's), (Start: 25 @47132 has 8 MA's), (Start: 26 @47129 has 4 MA's), (Start: 27 @47123 has 21 MA's), (30, 47096), (31, 47093), (Start: 32 @47090 has 3 MA's), (33, 47057), (34, 47042), (35, 47024), (36, 46985), (37, 46982),

Gene: Courthouse_81 Start: 49617, Stop: 49420, Start Num: 27

Candidate Starts for Courthouse_81:

(Start: 27 @49617 has 21 MA's), (Start: 32 @49584 has 3 MA's), (33, 49551), (35, 49518), (36, 49479), (37, 49476),

Gene: Dallas_79 Start: 51907, Stop: 51710, Start Num: 27

Candidate Starts for Dallas_79:

(1, 52327), (2, 52324), (4, 52309), (5, 52303), (6, 52300), (7, 52231), (8, 52228), (9, 52222), (10, 52219), (11, 52183), (12, 52180), (13, 52168), (14, 52165), (15, 52147), (16, 52141), (17, 52099), (18, 52093), (19, 52069), (20, 52042), (21, 52036), (22, 52015), (23, 51985), (Start: 24 @51946 has 2 MA's), (Start: 25 @51916 has 8 MA's), (Start: 26 @51913 has 4 MA's), (Start: 27 @51907 has 21 MA's), (30, 51880), (31, 51877), (Start: 32 @51874 has 3 MA's), (33, 51841), (34, 51826), (35, 51808), (36, 51769), (37, 51766),

Gene: DmpstrDiver_81 Start: 52333, Stop: 52136, Start Num: 27

Candidate Starts for DmpstrDiver_81:

(1, 52753), (2, 52750), (4, 52735), (5, 52729), (6, 52726), (7, 52657), (8, 52654), (9, 52648), (10, 52645), (11, 52609), (12, 52606), (13, 52594), (14, 52591), (15, 52573), (16, 52567), (17, 52525), (18, 52519), (19, 52495), (20, 52468), (21, 52462), (22, 52441), (23, 52411), (Start: 24 @52372 has 2 MA's), (Start: 25 @52342 has 8 MA's), (Start: 26 @52339 has 4 MA's), (Start: 27 @52333 has 21 MA's), (30, 52306), (31, 52303), (Start: 32 @52300 has 3 MA's), (33, 52267), (34, 52252), (35, 52234), (36, 52195), (37, 52192),

Gene: Dove_68 Start: 48415, Stop: 48218, Start Num: 27

Candidate Starts for Dove_68:

(1, 48835), (2, 48832), (4, 48817), (5, 48811), (6, 48808), (7, 48739), (8, 48736), (9, 48730), (10, 48727), (11, 48691), (12, 48688), (13, 48676), (14, 48673), (15, 48655), (16, 48649), (17, 48607), (18, 48601), (19, 48577), (20, 48550), (21, 48544), (22, 48523), (23, 48493), (Start: 24 @48454 has 2 MA's), (Start: 25 @48424 has 8 MA's), (Start: 26 @48421 has 4 MA's), (Start: 27 @48415 has 21 MA's),

MA's), (30, 48388), (31, 48385), (Start: 32 @48382 has 3 MA's), (33, 48349), (34, 48334), (35, 48316), (36, 48277), (37, 48274),

Gene: Duke13_84 Start: 52654, Stop: 52490, Start Num: 32

Candidate Starts for Duke13_84:

(1, 53107), (2, 53104), (3, 53101), (4, 53089), (5, 53083), (6, 53080), (7, 53011), (8, 53008), (9, 53002), (10, 52999), (11, 52963), (12, 52960), (13, 52948), (14, 52945), (15, 52927), (16, 52921), (17, 52879), (18, 52873), (19, 52849), (20, 52822), (21, 52816), (22, 52795), (23, 52765), (Start: 24 @52726 has 2 MA's), (Start: 25 @52696 has 8 MA's), (Start: 26 @52693 has 4 MA's), (Start: 27 @52687 has 21 MA's), (30, 52660), (31, 52657), (Start: 32 @52654 has 3 MA's), (33, 52621), (34, 52606), (35, 52588), (36, 52549), (37, 52546),

Gene: Ejimix_80 Start: 53775, Stop: 53578, Start Num: 27

Candidate Starts for Ejimix_80:

(1, 54195), (2, 54192), (4, 54177), (5, 54171), (6, 54168), (7, 54099), (8, 54096), (9, 54090), (10, 54087), (11, 54051), (12, 54048), (13, 54036), (14, 54033), (15, 54015), (16, 54009), (17, 53967), (18, 53961), (19, 53937), (20, 53910), (21, 53904), (22, 53883), (23, 53853), (Start: 24 @53814 has 2 MA's), (Start: 25 @53784 has 8 MA's), (Start: 26 @53781 has 4 MA's), (Start: 27 @53775 has 21 MA's), (30, 53748), (31, 53745), (Start: 32 @53742 has 3 MA's), (33, 53709), (34, 53694), (35, 53676), (36, 53637), (37, 53634),

Gene: EricMillard_79 Start: 52987, Stop: 52781, Start Num: 25

Candidate Starts for EricMillard_79:

(1, 53398), (2, 53395), (4, 53380), (5, 53374), (6, 53371), (7, 53302), (8, 53299), (9, 53293), (10, 53290), (11, 53254), (12, 53251), (13, 53239), (14, 53236), (15, 53218), (16, 53212), (17, 53170), (18, 53164), (19, 53140), (20, 53113), (21, 53107), (22, 53086), (23, 53056), (Start: 24 @53017 has 2 MA's), (Start: 25 @52987 has 8 MA's), (Start: 26 @52984 has 4 MA's), (Start: 27 @52978 has 21 MA's), (30, 52951), (31, 52948), (Start: 32 @52945 has 3 MA's), (33, 52912), (34, 52897), (35, 52879), (36, 52840), (37, 52837),

Gene: Gaia_51 Start: 37454, Stop: 37257, Start Num: 28

Candidate Starts for Gaia_51:

(Start: 28 @37454 has 2 MA's), (31, 37433), (Start: 32 @37430 has 3 MA's), (37, 37319),

Gene: Gonephishing_75 Start: 48631, Stop: 48434, Start Num: 27

Candidate Starts for Gonephishing_75:

(Start: 27 @48631 has 21 MA's), (Start: 32 @48598 has 3 MA's), (35, 48532), (36, 48493), (37, 48490),

Gene: Halley_82 Start: 52986, Stop: 52789, Start Num: 27

Candidate Starts for Halley_82:

(1, 53406), (2, 53403), (4, 53388), (5, 53382), (6, 53379), (7, 53310), (8, 53307), (9, 53301), (10, 53298), (11, 53262), (12, 53259), (13, 53247), (14, 53244), (15, 53226), (16, 53220), (17, 53178), (18, 53172), (19, 53148), (20, 53121), (21, 53115), (22, 53094), (23, 53064), (Start: 24 @53025 has 2 MA's), (Start: 25 @52995 has 8 MA's), (Start: 26 @52992 has 4 MA's), (Start: 27 @52986 has 21 MA's), (30, 52959), (31, 52956), (Start: 32 @52953 has 3 MA's), (33, 52920), (34, 52905), (35, 52887), (36, 52848), (37, 52845),

Gene: Hannaconda_74 Start: 47239, Stop: 47042, Start Num: 27

Candidate Starts for Hannaconda_74:

(Start: 27 @47239 has 21 MA's), (Start: 32 @47206 has 3 MA's), (33, 47173), (35, 47140), (36, 47101), (37, 47098),

Gene: HokkenD_72 Start: 51264, Stop: 51058, Start Num: 25

Candidate Starts for HokkenD_72:

(1, 51675), (2, 51672), (4, 51657), (5, 51651), (6, 51648), (7, 51579), (8, 51576), (9, 51570), (10, 51567), (11, 51531), (12, 51528), (13, 51516), (14, 51513), (15, 51495), (16, 51489), (17, 51447), (18, 51441), (19, 51417), (20, 51390), (21, 51384), (22, 51363), (23, 51333), (Start: 24 @51294 has 2 MA's), (Start: 25 @51264 has 8 MA's), (Start: 26 @51261 has 4 MA's), (Start: 27 @51255 has 21 MA's), (30, 51228), (31, 51225), (Start: 32 @51222 has 3 MA's), (33, 51189), (34, 51174), (35, 51156), (36, 51117), (37, 51114),

Gene: Hughesyang_80 Start: 52983, Stop: 52747, Start Num: 24

Candidate Starts for Hughesyang_80:

(1, 53364), (2, 53361), (4, 53346), (5, 53340), (6, 53337), (7, 53268), (8, 53265), (9, 53259), (10, 53256), (11, 53220), (12, 53217), (13, 53205), (14, 53202), (15, 53184), (16, 53178), (17, 53136), (18, 53130), (19, 53106), (20, 53079), (21, 53073), (22, 53052), (23, 53022), (Start: 24 @52983 has 2 MA's), (Start: 25 @52953 has 8 MA's), (Start: 26 @52950 has 4 MA's), (Start: 27 @52944 has 21 MA's), (30, 52917), (31, 52914), (Start: 32 @52911 has 3 MA's), (33, 52878), (34, 52863), (35, 52845), (36, 52806), (37, 52803),

Gene: JuicyJay_78 Start: 54126, Stop: 53923, Start Num: 26

Candidate Starts for JuicyJay_78:

(1, 54540), (2, 54537), (4, 54522), (5, 54516), (6, 54513), (7, 54444), (8, 54441), (9, 54435), (10, 54432), (11, 54396), (12, 54393), (13, 54381), (14, 54378), (15, 54360), (16, 54354), (17, 54312), (18, 54306), (19, 54282), (20, 54255), (21, 54249), (22, 54228), (23, 54198), (Start: 24 @54159 has 2 MA's), (Start: 25 @54129 has 8 MA's), (Start: 26 @54126 has 4 MA's), (Start: 27 @54120 has 21 MA's), (30, 54093), (31, 54090), (Start: 32 @54087 has 3 MA's), (33, 54054), (34, 54039), (35, 54021), (36, 53982), (37, 53979),

Gene: Kalah2_75 Start: 52285, Stop: 52082, Start Num: 26

Candidate Starts for Kalah2_75:

(1, 52699), (2, 52696), (4, 52681), (5, 52675), (6, 52672), (7, 52603), (8, 52600), (9, 52594), (10, 52591), (11, 52555), (12, 52552), (13, 52540), (14, 52537), (15, 52519), (16, 52513), (17, 52471), (18, 52465), (19, 52441), (20, 52414), (21, 52408), (22, 52387), (23, 52357), (Start: 24 @52318 has 2 MA's), (Start: 25 @52288 has 8 MA's), (Start: 26 @52285 has 4 MA's), (Start: 27 @52279 has 21 MA's), (30, 52252), (31, 52249), (Start: 32 @52246 has 3 MA's), (33, 52213), (34, 52198), (35, 52180), (36, 52141), (37, 52138),

Gene: KashFlow_75 Start: 48014, Stop: 47817, Start Num: 27

Candidate Starts for KashFlow_75:

(1, 48434), (2, 48431), (4, 48416), (5, 48410), (6, 48407), (7, 48338), (8, 48335), (9, 48329), (10, 48326), (11, 48290), (12, 48287), (13, 48275), (14, 48272), (15, 48254), (16, 48248), (17, 48206), (18, 48200), (19, 48176), (20, 48149), (21, 48143), (22, 48122), (23, 48092), (Start: 24 @48053 has 2 MA's), (Start: 25 @48023 has 8 MA's), (Start: 26 @48020 has 4 MA's), (Start: 27 @48014 has 21 MA's), (30, 47987), (31, 47984), (Start: 32 @47981 has 3 MA's), (33, 47948), (34, 47933), (35, 47915), (36, 47876), (37, 47873),

Gene: Klein_80 Start: 51705, Stop: 51508, Start Num: 27

Candidate Starts for Klein_80:

(1, 52125), (2, 52122), (4, 52107), (5, 52101), (6, 52098), (7, 52029), (8, 52026), (9, 52020), (10, 52017), (11, 51981), (12, 51978), (13, 51966), (14, 51963), (15, 51945), (16, 51939), (17, 51897), (18, 51891), (19, 51867), (20, 51840), (21, 51834), (22, 51813), (23, 51783), (Start: 24 @51744 has 2 MA's), (Start: 25 @51714 has 8 MA's), (Start: 26 @51711 has 4 MA's), (Start: 27 @51705 has 21 MA's), (30, 51678), (31, 51675), (Start: 32 @51672 has 3 MA's), (33, 51639), (34, 51624), (35, 51606), (36, 51567), (37, 51564),

Gene: LittleE_81 Start: 51471, Stop: 51274, Start Num: 27

Candidate Starts for LittleE_81:

(Start: 27 @51471 has 21 MA's), (Start: 32 @51438 has 3 MA's), (35, 51372), (36, 51333), (37, 51330),

Gene: Lucky2013_83 Start: 50033, Stop: 49836, Start Num: 27

Candidate Starts for Lucky2013_83:

(Start: 27 @50033 has 21 MA's), (Start: 32 @50000 has 3 MA's), (33, 49967), (35, 49934), (36, 49895), (37, 49892),

Gene: MiaZeal_86 Start: 50689, Stop: 50492, Start Num: 27

Candidate Starts for MiaZeal_86:

(Start: 27 @50689 has 21 MA's), (Start: 32 @50656 has 3 MA's), (33, 50623), (35, 50590), (36, 50551), (37, 50548),

Gene: Minerva_83 Start: 53119, Stop: 52922, Start Num: 27

Candidate Starts for Minerva_83:

(1, 53539), (2, 53536), (4, 53521), (5, 53515), (6, 53512), (7, 53443), (8, 53440), (9, 53434), (10, 53431), (11, 53395), (12, 53392), (13, 53380), (14, 53377), (15, 53359), (16, 53353), (17, 53311), (18, 53305), (19, 53281), (20, 53254), (21, 53248), (22, 53227), (23, 53197), (Start: 24 @53158 has 2 MA's), (Start: 25 @53128 has 8 MA's), (Start: 26 @53125 has 4 MA's), (Start: 27 @53119 has 21 MA's), (30, 53092), (31, 53089), (Start: 32 @53086 has 3 MA's), (33, 53053), (34, 53038), (35, 53020), (36, 52981), (37, 52978),

Gene: Nebkiss_55 Start: 37155, Stop: 36958, Start Num: 28

Candidate Starts for Nebkiss_55:

(Start: 28 @37155 has 2 MA's), (31, 37134), (Start: 32 @37131 has 3 MA's), (37, 37020),

Gene: NihilNomen_81 Start: 53082, Stop: 52876, Start Num: 25

Candidate Starts for NihilNomen_81:

(1, 53493), (2, 53490), (4, 53475), (5, 53469), (6, 53466), (7, 53397), (8, 53394), (9, 53388), (10, 53385), (11, 53349), (12, 53346), (13, 53334), (14, 53331), (15, 53313), (16, 53307), (17, 53265), (18, 53259), (19, 53235), (20, 53208), (21, 53202), (22, 53181), (23, 53151), (Start: 24 @53112 has 2 MA's), (Start: 25 @53082 has 8 MA's), (Start: 26 @53079 has 4 MA's), (Start: 27 @53073 has 21 MA's), (30, 53046), (31, 53043), (Start: 32 @53040 has 3 MA's), (33, 53007), (34, 52992), (35, 52974), (36, 52935), (37, 52932),

Gene: Odette_79 Start: 52124, Stop: 51918, Start Num: 25

Candidate Starts for Odette_79:

(1, 52535), (2, 52532), (4, 52517), (5, 52511), (6, 52508), (7, 52439), (8, 52436), (9, 52430), (10, 52427), (11, 52391), (12, 52388), (13, 52376), (14, 52373), (15, 52355), (16, 52349), (17, 52307), (18, 52301), (19, 52277), (20, 52250), (21, 52244), (22, 52223), (23, 52193), (Start: 24 @52154 has 2 MA's), (Start: 25 @52124 has 8 MA's), (Start: 26 @52121 has 4 MA's), (Start: 27 @52115 has 21 MA's), (30, 52088), (31, 52085), (Start: 32 @52082 has 3 MA's), (33, 52049), (34, 52034), (35, 52016), (36, 51977), (37, 51974),

Gene: Omega_84 Start: 53217, Stop: 53053, Start Num: 32

Candidate Starts for Omega_84:

(Start: 27 @53250 has 21 MA's), (Start: 32 @53217 has 3 MA's), (33, 53184), (35, 53151), (36, 53112), (37, 53109),

Gene: Optimus_78 Start: 51830, Stop: 51627, Start Num: 26

Candidate Starts for Optimus_78:

(1, 52244), (2, 52241), (4, 52226), (5, 52220), (6, 52217), (7, 52148), (8, 52145), (9, 52139), (10, 52136), (11, 52100), (12, 52097), (13, 52085), (14, 52082), (15, 52064), (16, 52058), (17, 52016), (18, 52010), (19, 51986), (20, 51959), (21, 51953), (22, 51932), (23, 51902), (Start: 24 @51863 has 2 MA's), (Start: 25 @51833 has 8 MA's), (Start: 26 @51830 has 4 MA's), (Start: 27 @51824 has 21 MA's), (30, 51797), (31, 51794), (Start: 32 @51791 has 3 MA's), (33, 51758), (34, 51743), (35, 51725), (36, 51686), (37, 51683),

Gene: Phoebus_83 Start: 54264, Stop: 54058, Start Num: 25

Candidate Starts for Phoebus_83:

(1, 54675), (2, 54672), (4, 54657), (5, 54651), (6, 54648), (7, 54579), (8, 54576), (9, 54570), (10, 54567), (11, 54531), (12, 54528), (13, 54516), (14, 54513), (15, 54495), (16, 54489), (17, 54447), (18, 54441), (19, 54417), (20, 54390), (21, 54384), (22, 54363), (23, 54333), (Start: 24 @54294 has 2 MA's), (Start: 25 @54264 has 8 MA's), (Start: 26 @54261 has 4 MA's), (Start: 27 @54255 has 21 MA's), (30, 54228), (31, 54225), (Start: 32 @54222 has 3 MA's), (33, 54189), (34, 54174), (35, 54156), (36, 54117), (37, 54114),

Gene: Porcelain_85 Start: 50689, Stop: 50492, Start Num: 27

Candidate Starts for Porcelain_85:

(Start: 27 @50689 has 21 MA's), (Start: 32 @50656 has 3 MA's), (33, 50623), (35, 50590), (36, 50551), (37, 50548),

Gene: Pound_81 Start: 54400, Stop: 54194, Start Num: 25

Candidate Starts for Pound_81:

(1, 54811), (2, 54808), (3, 54805), (4, 54793), (5, 54787), (6, 54784), (7, 54715), (8, 54712), (9, 54706), (10, 54703), (11, 54667), (12, 54664), (13, 54652), (14, 54649), (15, 54631), (16, 54625), (17, 54583), (18, 54577), (19, 54553), (20, 54526), (21, 54520), (22, 54499), (23, 54469), (Start: 24 @54430 has 2 MA's), (Start: 25 @54400 has 8 MA's), (Start: 26 @54397 has 4 MA's), (Start: 27 @54391 has 21 MA's), (30, 54364), (31, 54361), (Start: 32 @54358 has 3 MA's), (33, 54325), (34, 54310), (35, 54292), (36, 54253), (37, 54250),

Gene: Redno2_77 Start: 49878, Stop: 49672, Start Num: 25

Candidate Starts for Redno2_77:

(1, 50289), (2, 50286), (4, 50271), (5, 50265), (6, 50262), (7, 50193), (8, 50190), (9, 50184), (10, 50181), (11, 50145), (12, 50142), (13, 50130), (14, 50127), (15, 50109), (16, 50103), (17, 50061), (18, 50055), (19, 50031), (20, 50004), (21, 49998), (22, 49977), (23, 49947), (Start: 24 @49908 has 2 MA's), (Start: 25 @49878 has 8 MA's), (Start: 26 @49875 has 4 MA's), (Start: 27 @49869 has 21 MA's), (30, 49842), (31, 49839), (Start: 32 @49836 has 3 MA's), (33, 49803), (34, 49788), (35, 49770), (36, 49731), (37, 49728),

Gene: Schatzie_76 Start: 51862, Stop: 51665, Start Num: 27

Candidate Starts for Schatzie_76:

(1, 52282), (2, 52279), (4, 52264), (5, 52258), (6, 52255), (7, 52186), (8, 52183), (9, 52177), (10, 52174), (11, 52138), (12, 52135), (13, 52123), (14, 52120), (15, 52102), (16, 52096), (17, 52054), (18, 52048), (19, 52024), (20, 51997), (21, 51991), (22, 51970), (23, 51940), (Start: 24 @51901 has 2 MA's), (Start: 25 @51871 has 8 MA's), (Start: 26 @51868 has 4 MA's), (Start: 27 @51862 has 21 MA's), (30, 51835), (31, 51832), (Start: 32 @51829 has 3 MA's), (33, 51796), (34, 51781), (35, 51763), (36, 51724), (37, 51721),

Gene: Squint_86 Start: 50808, Stop: 50611, Start Num: 27

Candidate Starts for Squint_86:

(Start: 27 @50808 has 21 MA's), (Start: 32 @50775 has 3 MA's), (33, 50742), (35, 50709), (36, 50670), (37, 50667),

Gene: Superphikiman_83 Start: 49899, Stop: 49702, Start Num: 27

Candidate Starts for Superphikiman_83:

(Start: 27 @49899 has 21 MA's), (Start: 32 @49866 has 3 MA's), (33, 49833), (35, 49800), (36, 49761), (37, 49758),

Gene: Thibault_68 Start: 48035, Stop: 47871, Start Num: 32

Candidate Starts for Thibault_68:

(1, 48488), (2, 48485), (4, 48470), (5, 48464), (6, 48461), (7, 48392), (8, 48389), (9, 48383), (10, 48380), (11, 48344), (12, 48341), (13, 48329), (14, 48326), (15, 48308), (16, 48302), (17, 48260), (18, 48254), (19, 48230), (20, 48203), (21, 48197), (22, 48176), (23, 48146), (Start: 24 @48107 has 2 MA's), (Start: 25 @48077 has 8 MA's), (Start: 26 @48074 has 4 MA's), (Start: 27 @48068 has 21 MA's), (30, 48041), (31, 48038), (Start: 32 @48035 has 3 MA's), (33, 48002), (34, 47987), (35, 47969), (36, 47930), (37, 47927),

Gene: ThreeRngTarjay_78 Start: 53156, Stop: 52950, Start Num: 25

Candidate Starts for ThreeRngTarjay_78:

(1, 53567), (2, 53564), (4, 53549), (5, 53543), (6, 53540), (7, 53471), (8, 53468), (9, 53462), (10, 53459), (11, 53423), (12, 53420), (13, 53408), (14, 53405), (15, 53387), (16, 53381), (17, 53339), (18, 53333), (19, 53309), (20, 53282), (21, 53276), (22, 53255), (23, 53225), (Start: 24 @53186 has 2 MA's), (Start: 25 @53156 has 8 MA's), (Start: 26 @53153 has 4 MA's), (Start: 27 @53147 has 21 MA's), (30, 53120), (31, 53117), (Start: 32 @53114 has 3 MA's), (33, 53081), (34, 53066), (35, 53048), (36, 53009), (37, 53006),

Gene: Wanda_84 Start: 52014, Stop: 51817, Start Num: 27

Candidate Starts for Wanda_84:

(1, 52434), (2, 52431), (4, 52416), (5, 52410), (6, 52407), (7, 52338), (8, 52335), (9, 52329), (10, 52326), (11, 52290), (12, 52287), (13, 52275), (14, 52272), (15, 52254), (16, 52248), (17, 52206), (18, 52200), (19, 52176), (20, 52149), (21, 52143), (22, 52122), (23, 52092), (Start: 24 @52053 has 2 MA's), (Start: 25 @52023 has 8 MA's), (Start: 26 @52020 has 4 MA's), (Start: 27 @52014 has 21 MA's), (30, 51987), (31, 51984), (Start: 32 @51981 has 3 MA's), (33, 51948), (34, 51933), (35, 51915), (36, 51876), (37, 51873),

Gene: Yeet_75 Start: 51364, Stop: 51167, Start Num: 27

Candidate Starts for Yeet_75:

(1, 51784), (2, 51781), (4, 51766), (5, 51760), (6, 51757), (7, 51688), (8, 51685), (9, 51679), (10, 51676), (11, 51640), (12, 51637), (13, 51625), (14, 51622), (15, 51604), (16, 51598), (17, 51556), (18, 51550), (19, 51526), (20, 51499), (21, 51493), (22, 51472), (23, 51442), (Start: 24 @51403 has 2 MA's), (Start: 25 @51373 has 8 MA's), (Start: 26 @51370 has 4 MA's), (Start: 27 @51364 has 21 MA's), (30, 51337), (31, 51334), (Start: 32 @51331 has 3 MA's), (33, 51298), (34, 51283), (35, 51265), (36, 51226), (37, 51223),

Gene: Zelink_78 Start: 53468, Stop: 53262, Start Num: 25

Candidate Starts for Zelink_78:

(1, 53879), (2, 53876), (4, 53861), (5, 53855), (6, 53852), (7, 53783), (8, 53780), (9, 53774), (10, 53771), (11, 53735), (12, 53732), (13, 53720), (14, 53717), (15, 53699), (16, 53693), (17, 53651), (18, 53645), (19, 53621), (20, 53594), (21, 53588), (22, 53567), (23, 53537), (Start: 24 @53498 has 2 MA's), (Start: 25 @53468 has 8 MA's), (Start: 26 @53465 has 4 MA's), (Start: 27 @53459 has 21 MA's), (30, 53432), (31, 53429), (Start: 32 @53426 has 3 MA's), (33, 53393), (34, 53378), (35, 53360), (36, 53321), (37, 53318),