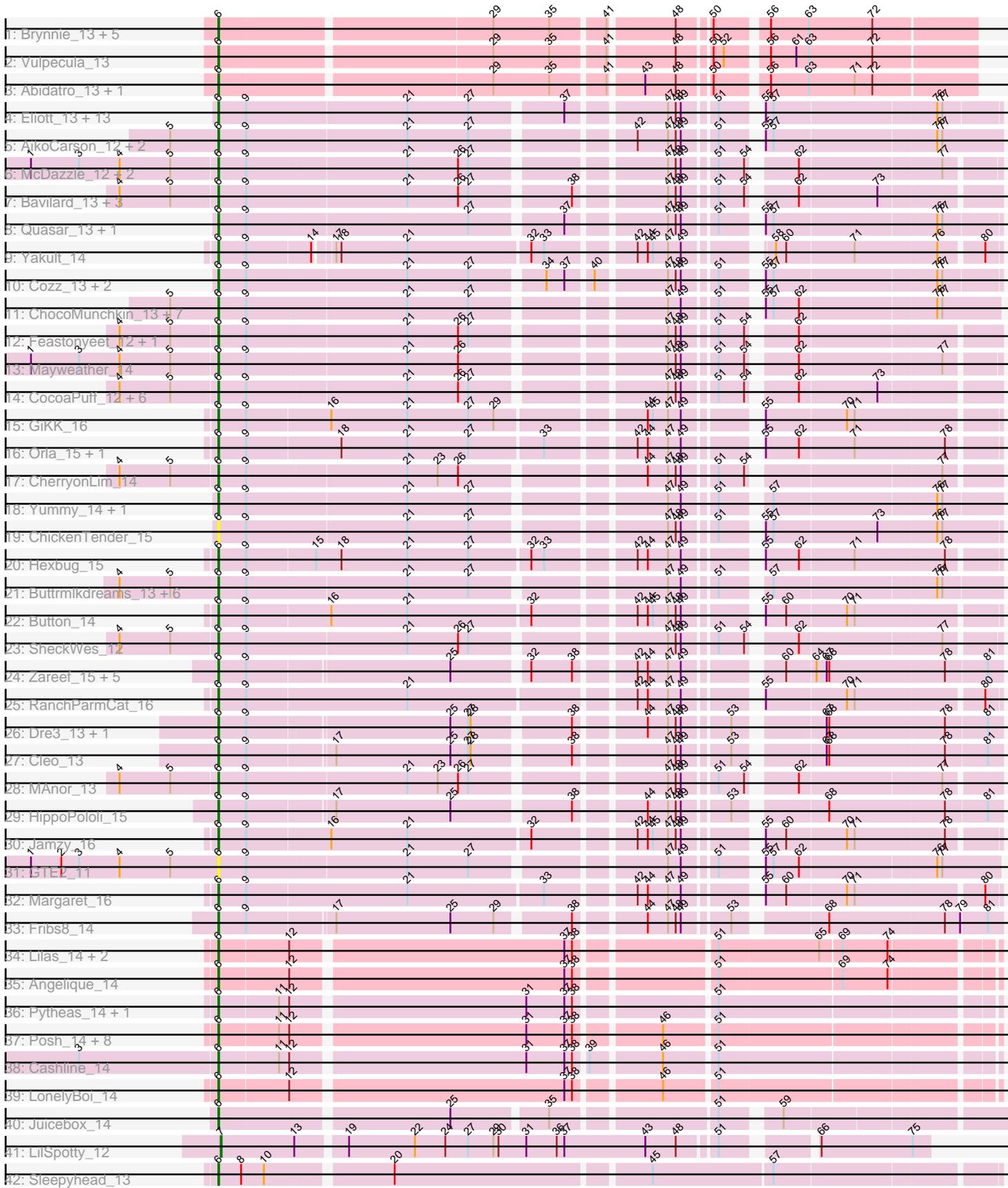


Pham 290998



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 290998 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290998 has 110 members, 22 are drafts.

Phages represented in each track:

- Track 1 : Brynnie_13, Ruchi_13, Jamun_13, WileyE_12, Basilisk_13, Chickaboom_12
- Track 2 : Vulpecula_13
- Track 3 : Abidatro_13, Galaxy_13
- Track 4 : Elliott_13, Agatha_13, PsychoKiller_13, RSchmailzl_14, Starburst_14, GoldHunter_14, Carsonalex_14, MunkgeeRoachy_13, Typhonmarchy_13, RedBaron_14, RADical_14, Socotra_14, Sopespian_13, Burnsey_13
- Track 5 : AikoCarson_12, Amok_12, Emalyn_12
- Track 6 : McDazzle_12, ElJefes_12, Pons_13
- Track 7 : Bavidard_13, KayGee_13, Elinal_14, Yucky_13
- Track 8 : Quasar_13, Nina_14
- Track 9 : Yakult_14
- Track 10 : Cozz_13, Bubble_13, Axym_13
- Track 11 : ChocoMunchkin_13, SteamedHams_15, Tolls_15, BillDoor_15, Yarn_12, CanesSauce_13, AndPeggy_12, CaramelLatte_13
- Track 12 : Feastonyeet_12, BigChungus_12
- Track 13 : Mayweather_14
- Track 14 : CocoaPuff_12, Vine_14, PotPie_13, Tarnish_12, Balloona_12, SummitAcademy_12, Lauer_12
- Track 15 : GiKK_16
- Track 16 : Orla_15, Nodigi_15
- Track 17 : CherryonLim_14
- Track 18 : Yummy_14, Horseradish_14
- Track 19 : ChickenTender_15
- Track 20 : Hexbug_15
- Track 21 : Buttrmilkdreams_13, Biskit_14, SweatNTears_15, Troje_13, SketchMex_12, MScarn_15, Blondies_14
- Track 22 : Button_14
- Track 23 : SheckWes_12
- Track 24 : Zareef_15, Wolfwood_17, Survivors_15, Nibbles_15, MaVan_15, Azira_15
- Track 25 : RanchParmCat_16
- Track 26 : Dre3_13, Gibbous_13
- Track 27 : Cleo_13
- Track 28 : MAnor_13
- Track 29 : HippoPololi_15
- Track 30 : Jamzy_16

- Track 31 : GTE2_11
- Track 32 : Margaret_16
- Track 33 : Fribs8_14
- Track 34 : Lilas_14, Bradissa_14, EnalisNailo_14
- Track 35 : Angelique_14
- Track 36 : Pytheas_14, Jablanski_14
- Track 37 : Posh_14, Wrigley_14, Pollux_14, BritBrat_14, Floral_14, EMSquaredA_14, Confidence_14, Marteena_14, BeeGee_14
- Track 38 : Cashline_14
- Track 39 : LonelyBoi_14
- Track 40 : Juicebox_14
- Track 41 : LilSpotty_12
- Track 42 : Sleepyhead_13

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

The start number called the most often in the published annotations is 6, it was called in 87 of the 88 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abidatro_13, Agatha_13, AikoCarson_12, Amok_12, AndPeggy_12, Angelique_14, Axym_13, Azira_15, Balloona_12, Basilisk_13, Bavidard_13, BeeGee_14, BigChungus_12, BillDoor_15, Biskit_14, Blondies_14, Bradissa_14, BritBrat_14, Brynnie_13, Bubble_13, Burnsey_13, Button_14, Buttrmilkdreams_13, CanesSauce_13, CaramelLatte_13, Carsonalex_14, Cashline_14, CherryonLim_14, Chickaboom_12, ChickenTender_15, ChocoMunchkin_13, Cleo_13, CocoaPuff_12, Confidence_14, Cozz_13, Dre3_13, EMSquaredA_14, ElJefes_12, Elinal_14, Elliott_13, Emalyn_12, EnalisNailo_14, Feastonyeet_12, Floral_14, Fribs8_14, GTE2_11, Galaxy_13, GiKK_16, Gibbous_13, GoldHunter_14, Hexbug_15, HippoPololi_15, Horseradish_14, Jablanski_14, Jamun_13, Jamzy_16, Juicebox_14, KayGee_13, Lauer_12, Lilas_14, LonelyBoi_14, MAnor_13, MScarn_15, MaVan_15, Margaret_16, Marteena_14, Mayweather_14, McDazzle_12, MunkgeeRoachy_13, Nibbles_15, Nina_14, Nodigi_15, Orla_15, Pollux_14, Pons_13, Posh_14, PotPie_13, PsychoKiller_13, Pytheas_14, Quasar_13, RADical_14, RSchmailzl_14, RanchParmCat_16, RedBaron_14, Ruchi_13, SheckWes_12, SketchMex_12, Sleepyhead_13, Socotra_14, Sopespian_13, Starburst_14, SteamedHams_15, SummitAcademy_12, Survivors_15, SweatNTears_15, Tarnish_12, Tolls_15, Troje_13, Typhonmarchy_13, Vine_14, Vulpecula_13, WileyE_12, Wolfwood_17, Wrigley_14, Yakult_14, Yarn_12, Yucky_13, Yummy_14, Zareef_15,

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

-

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

- LilSpotty_12,

Summary by start number:

Start 6:

- Found in 109 of 110 (99.1%) of genes in pham

- Manual Annotations of this start: 87 of 88
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abidatro_13 (AS1), Agatha_13 (CT), AikoCarson_12 (CT), Amok_12 (CT), AndPeggy_12 (CT), Angelique_14 (CY1), Axym_13 (CT), Azira_15 (CT), Balloona_12 (CT), Basilisk_13 (AS1), Bavilard_13 (CT), BeeGee_14 (CY5), BigChungus_12 (CT), BillDoor_15 (CT), Biskit_14 (CT), Blondies_14 (CT), Bradissa_14 (CY1), BritBrat_14 (CY2), Brynnie_13 (AS1), Bubble_13 (CT), Burnsey_13 (CT), Button_14 (CT), Buttrmlkdreams_13 (CT), CanesSauce_13 (CT), CaramelLatte_13 (CT), Carsonalex_14 (CT), Cashline_14 (CY6), CherryonLim_14 (CT), Chickaboom_12 (AS1), ChickenTender_15 (CT), ChocoMunchkin_13 (CT), Cleo_13 (CT), CocoaPuff_12 (CT), Confidence_14 (CY1), Cozz_13 (CT), Dre3_13 (CT), EMSquaredA_14 (CY1), ElJefes_12 (CT), Elinal_14 (CT), Elliott_13 (CT), Emalyn_12 (CT), EnalisNailo_14 (CY1), Feastonyeet_12 (CT), Floral_14 (CY1), Fribs8_14 (CT), GTE2_11 (CT), Galaxy_13 (AS1), GiKK_16 (CT), Gibbous_13 (CT), GoldHunter_14 (CT), Hexbug_15 (CT), HippoPololi_15 (CT), Horseradish_14 (CT), Jablanski_14 (CY3), Jamun_13 (AS1), Jamzy_16 (CT), Juicebox_14 (singleton), KayGee_13 (CT), Lauer_12 (CT), Lilas_14 (CY1), LonelyBoi_14 (CY7), MAnor_13 (CT), MScarn_15 (CT), MaVan_15 (CT), Margaret_16 (CT), Marteena_14 (CY1), Mayweather_14 (CT), McDazzle_12 (CT), MunkgeeRoachy_13 (CT), Nibbles_15 (CT), Nina_14 (CT), Nodigi_15 (CT), Orla_15 (CT), Pollux_14 (CY1), Pons_13 (CT), Posh_14 (CY4), PotPie_13 (CT), PsychoKiller_13 (CT), Pytheas_14 (CY3), Quasar_13 (CT), RADical_14 (CT), RSchmailzl_14 (CT), RanchParmCat_16 (CT), RedBaron_14 (CT), Ruchi_13 (AS1), SheckWes_12 (CT), SketchMex_12 (CT), Sleepyhead_13 (singleton), Socotra_14 (CT), Sopespian_13 (CT), Starburst_14 (CT), SteamedHams_15 (CT), SummitAcademy_12 (CT), Survivors_15 (CT), SweatNTears_15 (CT), Tarnish_12 (CT), Tolls_15 (CT), Troje_13 (CT), Typhonmarchy_13 (CT), Vine_14 (CT), Vulpecula_13 (AS1), WileyE_12 (AS1), Wolfwood_17 (CT), Wrigley_14 (CY4), Yakult_14 (CT), Yarn_12 (CT), Yucky_13 (CT), Yummy_14 (CT), Zareef_15 (CT),

Start 7:

- Found in 1 of 110 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 88
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilSpotty_12 (singleton),

Summary by clusters:

There are 10 clusters represented in this pham: CY3, CY2, AS1, CY7, CY6, CY5, CY4, CY1, singleton, CT,

Info for manual annotations of cluster AS1:

- Start number 6 was manually annotated 9 times for cluster AS1.

Info for manual annotations of cluster CT:

- Start number 6 was manually annotated 59 times for cluster CT.

Info for manual annotations of cluster CY1:

- Start number 6 was manually annotated 9 times for cluster CY1.

Info for manual annotations of cluster CY2:

- Start number 6 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY3:

- Start number 6 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:

- Start number 6 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CY5:

- Start number 6 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY6:

- Start number 6 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:

- Start number 6 was manually annotated 1 time for cluster CY7.

Gene Information:

Gene: Abidatro_13 Start: 8801, Stop: 9631, Start Num: 6

Candidate Starts for Abidatro_13:

(Start: 6 @8801 has 87 MA's), (29, 9110), (35, 9176), (41, 9233), (43, 9269), (48, 9305), (50, 9338), (56, 9392), (63, 9437), (71, 9491), (72, 9512),

Gene: Agatha_13 Start: 7939, Stop: 8781, Start Num: 6

Candidate Starts for Agatha_13:

(Start: 6 @7939 has 87 MA's), (9, 7972), (21, 8158), (27, 8230), (37, 8329), (47, 8431), (48, 8440), (49, 8446), (51, 8479), (55, 8515), (57, 8524), (76, 8710), (77, 8716),

Gene: AikoCarson_12 Start: 7662, Stop: 8510, Start Num: 6

Candidate Starts for AikoCarson_12:

(5, 7605), (Start: 6 @7662 has 87 MA's), (9, 7695), (21, 7881), (27, 7953), (42, 8118), (47, 8154), (48, 8163), (49, 8169), (51, 8202), (55, 8238), (57, 8247), (76, 8433), (77, 8439),

Gene: Amok_12 Start: 7662, Stop: 8510, Start Num: 6

Candidate Starts for Amok_12:

(5, 7605), (Start: 6 @7662 has 87 MA's), (9, 7695), (21, 7881), (27, 7953), (42, 8118), (47, 8154), (48, 8163), (49, 8169), (51, 8202), (55, 8238), (57, 8247), (76, 8433), (77, 8439),

Gene: AndPeggy_12 Start: 7953, Stop: 8798, Start Num: 6

Candidate Starts for AndPeggy_12:

(5, 7896), (Start: 6 @7953 has 87 MA's), (9, 7986), (21, 8172), (27, 8244), (47, 8445), (49, 8460), (51, 8493), (55, 8529), (57, 8538), (62, 8568), (76, 8724), (77, 8730),

Gene: Angelique_14 Start: 8715, Stop: 9560, Start Num: 6

Candidate Starts for Angelique_14:

(Start: 6 @8715 has 87 MA's), (12, 8796), (37, 9105), (38, 9114), (51, 9255), (69, 9396), (74, 9447),

Gene: Axym_13 Start: 7939, Stop: 8781, Start Num: 6

Candidate Starts for Axym_13:

(Start: 6 @7939 has 87 MA's), (9, 7972), (21, 8158), (27, 8230), (34, 8308), (37, 8329), (40, 8356), (47, 8431), (48, 8440), (49, 8446), (51, 8479), (55, 8515), (57, 8524), (76, 8710), (77, 8716),

Gene: Azira_15 Start: 8878, Stop: 9717, Start Num: 6

Candidate Starts for Azira_15:

(Start: 6 @8878 has 87 MA's), (9, 8911), (25, 9139), (32, 9220), (38, 9268), (42, 9325), (44, 9337), (47, 9361), (49, 9376), (60, 9469), (64, 9502), (67, 9514), (68, 9517), (78, 9652), (81, 9700),

Gene: Balloona_12 Start: 7701, Stop: 8540, Start Num: 6

Candidate Starts for Balloona_12:

(4, 7587), (5, 7647), (Start: 6 @7701 has 87 MA's), (9, 7734), (21, 7920), (26, 7980), (27, 7992), (47, 8193), (48, 8202), (49, 8208), (51, 8241), (54, 8271), (62, 8316), (73, 8406),

Gene: Basilisk_13 Start: 9125, Stop: 9955, Start Num: 6

Candidate Starts for Basilisk_13:

(Start: 6 @9125 has 87 MA's), (29, 9434), (35, 9500), (41, 9557), (48, 9629), (50, 9662), (56, 9716), (63, 9761), (72, 9836),

Gene: Bavilard_13 Start: 8481, Stop: 9320, Start Num: 6

Candidate Starts for Bavilard_13:

(4, 8367), (5, 8427), (Start: 6 @8481 has 87 MA's), (9, 8514), (21, 8700), (26, 8760), (27, 8772), (38, 8880), (47, 8973), (48, 8982), (49, 8988), (51, 9021), (54, 9051), (62, 9096), (73, 9186),

Gene: BeeGee_14 Start: 8711, Stop: 9556, Start Num: 6

Candidate Starts for BeeGee_14:

(Start: 6 @8711 has 87 MA's), (11, 8780), (12, 8792), (31, 9056), (37, 9101), (38, 9110), (46, 9197), (51, 9251),

Gene: BigChungus_12 Start: 7726, Stop: 8565, Start Num: 6

Candidate Starts for BigChungus_12:

(4, 7612), (5, 7672), (Start: 6 @7726 has 87 MA's), (9, 7759), (21, 7945), (26, 8005), (27, 8017), (47, 8218), (48, 8227), (49, 8233), (51, 8266), (54, 8296), (62, 8341),

Gene: BillDoor_15 Start: 7918, Stop: 8763, Start Num: 6

Candidate Starts for BillDoor_15:

(5, 7861), (Start: 6 @7918 has 87 MA's), (9, 7951), (21, 8137), (27, 8209), (47, 8410), (49, 8425), (51, 8458), (55, 8494), (57, 8503), (62, 8533), (76, 8689), (77, 8695),

Gene: Biskit_14 Start: 7925, Stop: 8770, Start Num: 6

Candidate Starts for Biskit_14:

(4, 7808), (5, 7868), (Start: 6 @7925 has 87 MA's), (9, 7958), (21, 8144), (27, 8216), (47, 8417), (49, 8432), (51, 8465), (57, 8510), (76, 8696), (77, 8702),

Gene: Blondies_14 Start: 7911, Stop: 8756, Start Num: 6

Candidate Starts for Blondies_14:

(4, 7794), (5, 7854), (Start: 6 @7911 has 87 MA's), (9, 7944), (21, 8130), (27, 8202), (47, 8403), (49, 8418), (51, 8451), (57, 8496), (76, 8682), (77, 8688),

Gene: Bradissa_14 Start: 8715, Stop: 9560, Start Num: 6

Candidate Starts for Bradissa_14:

(Start: 6 @8715 has 87 MA's), (12, 8796), (37, 9105), (38, 9114), (51, 9255), (65, 9372), (69, 9396), (74, 9447),

Gene: BritBrat_14 Start: 8717, Stop: 9562, Start Num: 6

Candidate Starts for BritBrat_14:

(Start: 6 @8717 has 87 MA's), (11, 8786), (12, 8798), (31, 9062), (37, 9107), (38, 9116), (46, 9203), (51, 9257),

Gene: Brynnie_13 Start: 8937, Stop: 9767, Start Num: 6

Candidate Starts for Brynnie_13:

(Start: 6 @8937 has 87 MA's), (29, 9246), (35, 9312), (41, 9369), (48, 9441), (50, 9474), (56, 9528), (63, 9573), (72, 9648),

Gene: Bubble_13 Start: 7939, Stop: 8781, Start Num: 6

Candidate Starts for Bubble_13:

(Start: 6 @7939 has 87 MA's), (9, 7972), (21, 8158), (27, 8230), (34, 8308), (37, 8329), (40, 8356), (47, 8431), (48, 8440), (49, 8446), (51, 8479), (55, 8515), (57, 8524), (76, 8710), (77, 8716),

Gene: Burnsey_13 Start: 7940, Stop: 8782, Start Num: 6

Candidate Starts for Burnsey_13:

(Start: 6 @7940 has 87 MA's), (9, 7973), (21, 8159), (27, 8231), (37, 8330), (47, 8432), (48, 8441), (49, 8447), (51, 8480), (55, 8516), (57, 8525), (76, 8711), (77, 8717),

Gene: Button_14 Start: 7947, Stop: 8795, Start Num: 6

Candidate Starts for Button_14:

(Start: 6 @7947 has 87 MA's), (9, 7980), (16, 8076), (21, 8166), (32, 8307), (42, 8412), (44, 8424), (45, 8430), (47, 8448), (48, 8457), (49, 8463), (55, 8532), (60, 8556), (70, 8625), (71, 8634),

Gene: Buttrmlkdreams_13 Start: 7910, Stop: 8755, Start Num: 6

Candidate Starts for Buttrmlkdreams_13:

(4, 7793), (5, 7853), (Start: 6 @7910 has 87 MA's), (9, 7943), (21, 8129), (27, 8201), (47, 8402), (49, 8417), (51, 8450), (57, 8495), (76, 8681), (77, 8687),

Gene: CanesSauce_13 Start: 7954, Stop: 8799, Start Num: 6

Candidate Starts for CanesSauce_13:

(5, 7897), (Start: 6 @7954 has 87 MA's), (9, 7987), (21, 8173), (27, 8245), (47, 8446), (49, 8461), (51, 8494), (55, 8530), (57, 8539), (62, 8569), (76, 8725), (77, 8731),

Gene: Caramellatte_13 Start: 7954, Stop: 8799, Start Num: 6

Candidate Starts for Caramellatte_13:

(5, 7897), (Start: 6 @7954 has 87 MA's), (9, 7987), (21, 8173), (27, 8245), (47, 8446), (49, 8461), (51, 8494), (55, 8530), (57, 8539), (62, 8569), (76, 8725), (77, 8731),

Gene: Carsonalex_14 Start: 7996, Stop: 8838, Start Num: 6

Candidate Starts for Carsonalex_14:

(Start: 6 @7996 has 87 MA's), (9, 8029), (21, 8215), (27, 8287), (37, 8386), (47, 8488), (48, 8497), (49, 8503), (51, 8536), (55, 8572), (57, 8581), (76, 8767), (77, 8773),

Gene: Cashline_14 Start: 8571, Stop: 9416, Start Num: 6

Candidate Starts for Cashline_14:

(3, 8409), (Start: 6 @8571 has 87 MA's), (11, 8640), (12, 8652), (31, 8916), (37, 8961), (38, 8970), (39, 8982), (46, 9057), (51, 9111),

Gene: CherryonLim_14 Start: 8452, Stop: 9291, Start Num: 6

Candidate Starts for CherryonLim_14:

(4, 8338), (5, 8398), (Start: 6 @8452 has 87 MA's), (9, 8485), (21, 8671), (23, 8707), (26, 8731), (44, 8920), (47, 8944), (48, 8953), (49, 8959), (51, 8992), (54, 9022), (77, 9229),

Gene: Chickaboom_12 Start: 8482, Stop: 9312, Start Num: 6

Candidate Starts for Chickaboom_12:

(Start: 6 @8482 has 87 MA's), (29, 8791), (35, 8857), (41, 8914), (48, 8986), (50, 9019), (56, 9073), (63, 9118), (72, 9193),

Gene: ChickenTender_15 Start: 7982, Stop: 8830, Start Num: 6

Candidate Starts for ChickenTender_15:

(Start: 6 @7982 has 87 MA's), (9, 8015), (21, 8201), (27, 8273), (47, 8474), (48, 8483), (49, 8489), (51, 8522), (55, 8558), (57, 8567), (73, 8687), (76, 8756), (77, 8762),

Gene: ChocoMunchkin_13 Start: 7954, Stop: 8799, Start Num: 6

Candidate Starts for ChocoMunchkin_13:

(5, 7897), (Start: 6 @7954 has 87 MA's), (9, 7987), (21, 8173), (27, 8245), (47, 8446), (49, 8461), (51, 8494), (55, 8530), (57, 8539), (62, 8569), (76, 8725), (77, 8731),

Gene: Cleo_13 Start: 8168, Stop: 9007, Start Num: 6

Candidate Starts for Cleo_13:

(Start: 6 @8168 has 87 MA's), (9, 8201), (17, 8294), (25, 8429), (27, 8450), (28, 8453), (38, 8558), (47, 8651), (48, 8660), (49, 8666), (53, 8714), (67, 8804), (68, 8807), (78, 8942), (81, 8990),

Gene: CocoaPuff_12 Start: 7701, Stop: 8540, Start Num: 6

Candidate Starts for CocoaPuff_12:

(4, 7587), (5, 7647), (Start: 6 @7701 has 87 MA's), (9, 7734), (21, 7920), (26, 7980), (27, 7992), (47, 8193), (48, 8202), (49, 8208), (51, 8241), (54, 8271), (62, 8316), (73, 8406),

Gene: Confidence_14 Start: 8711, Stop: 9556, Start Num: 6

Candidate Starts for Confidence_14:

(Start: 6 @8711 has 87 MA's), (11, 8780), (12, 8792), (31, 9056), (37, 9101), (38, 9110), (46, 9197), (51, 9251),

Gene: Cozz_13 Start: 7940, Stop: 8782, Start Num: 6

Candidate Starts for Cozz_13:

(Start: 6 @7940 has 87 MA's), (9, 7973), (21, 8159), (27, 8231), (34, 8309), (37, 8330), (40, 8357), (47, 8432), (48, 8441), (49, 8447), (51, 8480), (55, 8516), (57, 8525), (76, 8711), (77, 8717),

Gene: Dre3_13 Start: 8115, Stop: 8954, Start Num: 6

Candidate Starts for Dre3_13:

(Start: 6 @8115 has 87 MA's), (9, 8148), (25, 8376), (27, 8397), (28, 8400), (38, 8505), (44, 8574), (47, 8598), (48, 8607), (49, 8613), (53, 8661), (67, 8751), (68, 8754), (78, 8889), (81, 8937),

Gene: EMSquaredA_14 Start: 8717, Stop: 9562, Start Num: 6

Candidate Starts for EMSquaredA_14:

(Start: 6 @8717 has 87 MA's), (11, 8786), (12, 8798), (31, 9062), (37, 9107), (38, 9116), (46, 9203), (51, 9257),

Gene: ElJefes_12 Start: 8178, Stop: 9014, Start Num: 6

Candidate Starts for ElJefes_12:

(1, 7959), (3, 8016), (4, 8064), (5, 8124), (Start: 6 @8178 has 87 MA's), (9, 8211), (21, 8397), (26, 8457), (27, 8469), (47, 8670), (48, 8679), (49, 8685), (51, 8718), (54, 8748), (62, 8793), (77, 8955),

Gene: Elinal_14 Start: 7707, Stop: 8546, Start Num: 6

Candidate Starts for Elinal_14:

(4, 7593), (5, 7653), (Start: 6 @7707 has 87 MA's), (9, 7740), (21, 7926), (26, 7986), (27, 7998), (38, 8106), (47, 8199), (48, 8208), (49, 8214), (51, 8247), (54, 8277), (62, 8322), (73, 8412),

Gene: Elliott_13 Start: 7939, Stop: 8781, Start Num: 6

Candidate Starts for Elliott_13:

(Start: 6 @7939 has 87 MA's), (9, 7972), (21, 8158), (27, 8230), (37, 8329), (47, 8431), (48, 8440), (49, 8446), (51, 8479), (55, 8515), (57, 8524), (76, 8710), (77, 8716),

Gene: Emalyn_12 Start: 7661, Stop: 8509, Start Num: 6

Candidate Starts for Emalyn_12:

(5, 7604), (Start: 6 @7661 has 87 MA's), (9, 7694), (21, 7880), (27, 7952), (42, 8117), (47, 8153), (48, 8162), (49, 8168), (51, 8201), (55, 8237), (57, 8246), (76, 8432), (77, 8438),

Gene: EnalisNailo_14 Start: 8717, Stop: 9562, Start Num: 6

Candidate Starts for EnalisNailo_14:

(Start: 6 @8717 has 87 MA's), (12, 8798), (37, 9107), (38, 9116), (51, 9257), (65, 9374), (69, 9398), (74, 9449),

Gene: Feastonyeet_12 Start: 7726, Stop: 8565, Start Num: 6

Candidate Starts for Feastonyeet_12:

(4, 7612), (5, 7672), (Start: 6 @7726 has 87 MA's), (9, 7759), (21, 7945), (26, 8005), (27, 8017), (47, 8218), (48, 8227), (49, 8233), (51, 8266), (54, 8296), (62, 8341),

Gene: Floral_14 Start: 8717, Stop: 9562, Start Num: 6

Candidate Starts for Floral_14:

(Start: 6 @8717 has 87 MA's), (11, 8786), (12, 8798), (31, 9062), (37, 9107), (38, 9116), (46, 9203), (51, 9257),

Gene: Fribs8_14 Start: 8691, Stop: 9530, Start Num: 6

Candidate Starts for Fribs8_14:

(Start: 6 @8691 has 87 MA's), (9, 8724), (17, 8817), (25, 8952), (29, 9003), (38, 9081), (44, 9150), (47, 9174), (48, 9183), (49, 9189), (53, 9237), (68, 9330), (78, 9465), (79, 9483), (81, 9513),

Gene: GTE2_11 Start: 7614, Stop: 8459, Start Num: 6

Candidate Starts for GTE2_11:

(1, 7392), (2, 7428), (3, 7449), (4, 7497), (5, 7557), (Start: 6 @7614 has 87 MA's), (9, 7647), (21, 7833), (27, 7905), (47, 8106), (49, 8121), (51, 8154), (55, 8190), (57, 8199), (62, 8229), (76, 8385), (77, 8391),

Gene: Galaxy_13 Start: 8808, Stop: 9638, Start Num: 6

Candidate Starts for Galaxy_13:

(Start: 6 @8808 has 87 MA's), (29, 9117), (35, 9183), (41, 9240), (43, 9276), (48, 9312), (50, 9345), (56, 9399), (63, 9444), (71, 9498), (72, 9519),

Gene: GiKK_16 Start: 8250, Stop: 9098, Start Num: 6

Candidate Starts for GiKK_16:

(Start: 6 @8250 has 87 MA's), (9, 8283), (16, 8379), (21, 8469), (27, 8541), (29, 8571), (44, 8727), (45, 8733), (47, 8751), (49, 8766), (55, 8835), (70, 8928), (71, 8937),

Gene: Gibbous_13 Start: 8115, Stop: 8954, Start Num: 6

Candidate Starts for Gibbous_13:

(Start: 6 @8115 has 87 MA's), (9, 8148), (25, 8376), (27, 8397), (28, 8400), (38, 8505), (44, 8574), (47, 8598), (48, 8607), (49, 8613), (53, 8661), (67, 8751), (68, 8754), (78, 8889), (81, 8937),

Gene: GoldHunter_14 Start: 7940, Stop: 8782, Start Num: 6

Candidate Starts for GoldHunter_14:

(Start: 6 @7940 has 87 MA's), (9, 7973), (21, 8159), (27, 8231), (37, 8330), (47, 8432), (48, 8441), (49, 8447), (51, 8480), (55, 8516), (57, 8525), (76, 8711), (77, 8717),

Gene: Hexbug_15 Start: 8936, Stop: 9784, Start Num: 6

Candidate Starts for Hexbug_15:

(Start: 6 @8936 has 87 MA's), (9, 8969), (15, 9047), (18, 9077), (21, 9155), (27, 9227), (32, 9296), (33, 9311), (42, 9401), (44, 9413), (47, 9437), (49, 9452), (55, 9521), (62, 9560), (71, 9623), (78, 9728),

Gene: HippoPololi_15 Start: 8768, Stop: 9607, Start Num: 6

Candidate Starts for HippoPololi_15:

(Start: 6 @8768 has 87 MA's), (9, 8801), (17, 8894), (25, 9029), (38, 9158), (44, 9227), (47, 9251), (48, 9260), (49, 9266), (53, 9314), (68, 9407), (78, 9542), (81, 9590),

Gene: Horseradish_14 Start: 7821, Stop: 8666, Start Num: 6

Candidate Starts for Horseradish_14:

(Start: 6 @7821 has 87 MA's), (9, 7854), (21, 8040), (27, 8112), (47, 8313), (49, 8328), (51, 8361), (57, 8406), (76, 8592), (77, 8598),

Gene: Jablanski_14 Start: 8564, Stop: 9409, Start Num: 6

Candidate Starts for Jablanski_14:

(Start: 6 @8564 has 87 MA's), (11, 8633), (12, 8645), (31, 8909), (37, 8954), (38, 8963), (51, 9104),

Gene: Jamun_13 Start: 9149, Stop: 9979, Start Num: 6

Candidate Starts for Jamun_13:

(Start: 6 @9149 has 87 MA's), (29, 9458), (35, 9524), (41, 9581), (48, 9653), (50, 9686), (56, 9740), (63, 9785), (72, 9860),

Gene: Jamzy_16 Start: 8260, Stop: 9108, Start Num: 6

Candidate Starts for Jamzy_16:

(Start: 6 @8260 has 87 MA's), (9, 8293), (16, 8389), (21, 8479), (32, 8620), (42, 8725), (44, 8737), (45, 8743), (47, 8761), (48, 8770), (49, 8776), (55, 8845), (60, 8869), (70, 8938), (71, 8947), (78, 9052),

Gene: Juicebox_14 Start: 9288, Stop: 10136, Start Num: 6

Candidate Starts for Juicebox_14:

(Start: 6 @9288 has 87 MA's), (25, 9543), (35, 9648), (51, 9822), (59, 9879),

Gene: KayGee_13 Start: 7707, Stop: 8546, Start Num: 6

Candidate Starts for KayGee_13:

(4, 7593), (5, 7653), (Start: 6 @7707 has 87 MA's), (9, 7740), (21, 7926), (26, 7986), (27, 7998), (38, 8106), (47, 8199), (48, 8208), (49, 8214), (51, 8247), (54, 8277), (62, 8322), (73, 8412),

Gene: Lauer_12 Start: 7756, Stop: 8595, Start Num: 6

Candidate Starts for Lauer_12:

(4, 7642), (5, 7702), (Start: 6 @7756 has 87 MA's), (9, 7789), (21, 7975), (26, 8035), (27, 8047), (47, 8248), (48, 8257), (49, 8263), (51, 8296), (54, 8326), (62, 8371), (73, 8461),

Gene: LilSpotty_12 Start: 7545, Stop: 8324, Start Num: 7

Candidate Starts for LilSpotty_12:

(Start: 7 @7545 has 1 MA's), (13, 7632), (19, 7683), (22, 7761), (24, 7797), (27, 7824), (29, 7854), (30, 7860), (31, 7893), (36, 7929), (37, 7938), (43, 8034), (48, 8070), (51, 8109), (66, 8196), (75, 8304),

Gene: Lilas_14 Start: 8717, Stop: 9562, Start Num: 6

Candidate Starts for Lilas_14:

(Start: 6 @8717 has 87 MA's), (12, 8798), (37, 9107), (38, 9116), (51, 9257), (65, 9374), (69, 9398), (74, 9449),

Gene: LonelyBoi_14 Start: 8564, Stop: 9409, Start Num: 6

Candidate Starts for LonelyBoi_14:

(Start: 6 @8564 has 87 MA's), (12, 8645), (37, 8954), (38, 8963), (46, 9050), (51, 9104),

Gene: MAnor_13 Start: 7697, Stop: 8536, Start Num: 6

Candidate Starts for MAnor_13:

(4, 7583), (5, 7643), (Start: 6 @7697 has 87 MA's), (9, 7730), (21, 7916), (23, 7952), (26, 7976), (27, 7988), (47, 8189), (48, 8198), (49, 8204), (51, 8237), (54, 8267), (62, 8312), (77, 8474),

Gene: MScarn_15 Start: 7910, Stop: 8755, Start Num: 6

Candidate Starts for MScarn_15:

(4, 7793), (5, 7853), (Start: 6 @7910 has 87 MA's), (9, 7943), (21, 8129), (27, 8201), (47, 8402), (49, 8417), (51, 8450), (57, 8495), (76, 8681), (77, 8687),

Gene: MaVan_15 Start: 8878, Stop: 9717, Start Num: 6

Candidate Starts for MaVan_15:

(Start: 6 @8878 has 87 MA's), (9, 8911), (25, 9139), (32, 9220), (38, 9268), (42, 9325), (44, 9337), (47, 9361), (49, 9376), (60, 9469), (64, 9502), (67, 9514), (68, 9517), (78, 9652), (81, 9700),

Gene: Margaret_16 Start: 8645, Stop: 9493, Start Num: 6

Candidate Starts for Margaret_16:

(Start: 6 @8645 has 87 MA's), (9, 8678), (21, 8864), (33, 9020), (42, 9110), (44, 9122), (47, 9146), (49, 9161), (55, 9230), (60, 9254), (70, 9323), (71, 9332), (80, 9476),

Gene: Marteena_14 Start: 8717, Stop: 9562, Start Num: 6

Candidate Starts for Marteena_14:

(Start: 6 @8717 has 87 MA's), (11, 8786), (12, 8798), (31, 9062), (37, 9107), (38, 9116), (46, 9203), (51, 9257),

Gene: Mayweather_14 Start: 8330, Stop: 9166, Start Num: 6

Candidate Starts for Mayweather_14:

(1, 8111), (3, 8168), (4, 8216), (5, 8276), (Start: 6 @8330 has 87 MA's), (9, 8363), (21, 8549), (26, 8609), (47, 8822), (48, 8831), (49, 8837), (51, 8870), (54, 8900), (62, 8945), (77, 9107),

Gene: McDazzle_12 Start: 8172, Stop: 9008, Start Num: 6

Candidate Starts for McDazzle_12:

(1, 7953), (3, 8010), (4, 8058), (5, 8118), (Start: 6 @8172 has 87 MA's), (9, 8205), (21, 8391), (26, 8451), (27, 8463), (47, 8664), (48, 8673), (49, 8679), (51, 8712), (54, 8742), (62, 8787), (77, 8949),

Gene: MunkgeeRoachy_13 Start: 7987, Stop: 8829, Start Num: 6

Candidate Starts for MunkgeeRoachy_13:

(Start: 6 @7987 has 87 MA's), (9, 8020), (21, 8206), (27, 8278), (37, 8377), (47, 8479), (48, 8488), (49, 8494), (51, 8527), (55, 8563), (57, 8572), (76, 8758), (77, 8764),

Gene: Nibbles_15 Start: 8878, Stop: 9717, Start Num: 6

Candidate Starts for Nibbles_15:

(Start: 6 @8878 has 87 MA's), (9, 8911), (25, 9139), (32, 9220), (38, 9268), (42, 9325), (44, 9337), (47, 9361), (49, 9376), (60, 9469), (64, 9502), (67, 9514), (68, 9517), (78, 9652), (81, 9700),

Gene: Nina_14 Start: 8973, Stop: 9815, Start Num: 6

Candidate Starts for Nina_14:

(Start: 6 @8973 has 87 MA's), (9, 9006), (27, 9264), (37, 9363), (47, 9465), (48, 9474), (49, 9480), (51, 9513), (55, 9549), (57, 9558), (76, 9744), (77, 9750),

Gene: Nodigi_15 Start: 8929, Stop: 9777, Start Num: 6

Candidate Starts for Nodigi_15:

(Start: 6 @8929 has 87 MA's), (9, 8962), (18, 9070), (21, 9148), (27, 9220), (33, 9304), (42, 9394), (44, 9406), (47, 9430), (49, 9445), (55, 9514), (62, 9553), (71, 9616), (78, 9721),

Gene: Orla_15 Start: 8933, Stop: 9781, Start Num: 6

Candidate Starts for Orla_15:

(Start: 6 @8933 has 87 MA's), (9, 8966), (18, 9074), (21, 9152), (27, 9224), (33, 9308), (42, 9398), (44, 9410), (47, 9434), (49, 9449), (55, 9518), (62, 9557), (71, 9620), (78, 9725),

Gene: Pollux_14 Start: 8717, Stop: 9562, Start Num: 6

Candidate Starts for Pollux_14:

(Start: 6 @8717 has 87 MA's), (11, 8786), (12, 8798), (31, 9062), (37, 9107), (38, 9116), (46, 9203), (51, 9257),

Gene: Pons_13 Start: 7709, Stop: 8545, Start Num: 6

Candidate Starts for Pons_13:

(1, 7490), (3, 7547), (4, 7595), (5, 7655), (Start: 6 @7709 has 87 MA's), (9, 7742), (21, 7928), (26, 7988), (27, 8000), (47, 8201), (48, 8210), (49, 8216), (51, 8249), (54, 8279), (62, 8324), (77, 8486),

Gene: Posh_14 Start: 8717, Stop: 9562, Start Num: 6

Candidate Starts for Posh_14:

(Start: 6 @8717 has 87 MA's), (11, 8786), (12, 8798), (31, 9062), (37, 9107), (38, 9116), (46, 9203), (51, 9257),

Gene: PotPie_13 Start: 8560, Stop: 9399, Start Num: 6

Candidate Starts for PotPie_13:

(4, 8446), (5, 8506), (Start: 6 @8560 has 87 MA's), (9, 8593), (21, 8779), (26, 8839), (27, 8851), (47, 9052), (48, 9061), (49, 9067), (51, 9100), (54, 9130), (62, 9175), (73, 9265),

Gene: PsychoKiller_13 Start: 7939, Stop: 8781, Start Num: 6

Candidate Starts for PsychoKiller_13:

(Start: 6 @7939 has 87 MA's), (9, 7972), (21, 8158), (27, 8230), (37, 8329), (47, 8431), (48, 8440), (49, 8446), (51, 8479), (55, 8515), (57, 8524), (76, 8710), (77, 8716),

Gene: Pytheas_14 Start: 8564, Stop: 9409, Start Num: 6

Candidate Starts for Pytheas_14:

(Start: 6 @8564 has 87 MA's), (11, 8633), (12, 8645), (31, 8909), (37, 8954), (38, 8963), (51, 9104),

Gene: Quasar_13 Start: 8548, Stop: 9390, Start Num: 6

Candidate Starts for Quasar_13:

(Start: 6 @8548 has 87 MA's), (9, 8581), (27, 8839), (37, 8938), (47, 9040), (48, 9049), (49, 9055), (51, 9088), (55, 9124), (57, 9133), (76, 9319), (77, 9325),

Gene: RADical_14 Start: 7940, Stop: 8782, Start Num: 6

Candidate Starts for RADical_14:

(Start: 6 @7940 has 87 MA's), (9, 7973), (21, 8159), (27, 8231), (37, 8330), (47, 8432), (48, 8441), (49, 8447), (51, 8480), (55, 8516), (57, 8525), (76, 8711), (77, 8717),

Gene: RSchmailzl_14 Start: 8080, Stop: 8925, Start Num: 6

Candidate Starts for RSchmailzl_14:

(Start: 6 @8080 has 87 MA's), (9, 8113), (21, 8299), (27, 8371), (37, 8470), (47, 8572), (48, 8581), (49, 8587), (51, 8620), (55, 8656), (57, 8665), (76, 8851), (77, 8857),

Gene: RanchParmCat_16 Start: 8645, Stop: 9493, Start Num: 6

Candidate Starts for RanchParmCat_16:

(Start: 6 @8645 has 87 MA's), (9, 8678), (21, 8864), (42, 9110), (44, 9122), (47, 9146), (49, 9161), (55, 9230), (70, 9323), (71, 9332), (80, 9476),

Gene: RedBaron_14 Start: 7984, Stop: 8826, Start Num: 6

Candidate Starts for RedBaron_14:

(Start: 6 @7984 has 87 MA's), (9, 8017), (21, 8203), (27, 8275), (37, 8374), (47, 8476), (48, 8485), (49, 8491), (51, 8524), (55, 8560), (57, 8569), (76, 8755), (77, 8761),

Gene: Ruchi_13 Start: 9071, Stop: 9901, Start Num: 6

Candidate Starts for Ruchi_13:

(Start: 6 @9071 has 87 MA's), (29, 9380), (35, 9446), (41, 9503), (48, 9575), (50, 9608), (56, 9662), (63, 9707), (72, 9782),

Gene: SheckWes_12 Start: 7697, Stop: 8533, Start Num: 6

Candidate Starts for SheckWes_12:

(4, 7583), (5, 7643), (Start: 6 @7697 has 87 MA's), (9, 7730), (21, 7916), (26, 7976), (27, 7988), (47, 8189), (48, 8198), (49, 8204), (51, 8237), (54, 8267), (62, 8312), (77, 8474),

Gene: SketchMex_12 Start: 7925, Stop: 8770, Start Num: 6

Candidate Starts for SketchMex_12:

(4, 7808), (5, 7868), (Start: 6 @7925 has 87 MA's), (9, 7958), (21, 8144), (27, 8216), (47, 8417), (49, 8432), (51, 8465), (57, 8510), (76, 8696), (77, 8702),

Gene: Sleepyhead_13 Start: 8334, Stop: 9200, Start Num: 6

Candidate Starts for Sleepyhead_13:

(Start: 6 @8334 has 87 MA's), (8, 8361), (10, 8388), (20, 8526), (45, 8811), (57, 8949),

Gene: Socotra_14 Start: 7939, Stop: 8781, Start Num: 6

Candidate Starts for Socotra_14:

(Start: 6 @7939 has 87 MA's), (9, 7972), (21, 8158), (27, 8230), (37, 8329), (47, 8431), (48, 8440), (49, 8446), (51, 8479), (55, 8515), (57, 8524), (76, 8710), (77, 8716),

Gene: Sopespian_13 Start: 7939, Stop: 8781, Start Num: 6

Candidate Starts for Sopespian_13:

(Start: 6 @7939 has 87 MA's), (9, 7972), (21, 8158), (27, 8230), (37, 8329), (47, 8431), (48, 8440), (49, 8446), (51, 8479), (55, 8515), (57, 8524), (76, 8710), (77, 8716),

Gene: Starburst_14 Start: 7939, Stop: 8781, Start Num: 6

Candidate Starts for Starburst_14:

(Start: 6 @7939 has 87 MA's), (9, 7972), (21, 8158), (27, 8230), (37, 8329), (47, 8431), (48, 8440), (49, 8446), (51, 8479), (55, 8515), (57, 8524), (76, 8710), (77, 8716),

Gene: SteamedHams_15 Start: 7954, Stop: 8799, Start Num: 6

Candidate Starts for SteamedHams_15:

(5, 7897), (Start: 6 @7954 has 87 MA's), (9, 7987), (21, 8173), (27, 8245), (47, 8446), (49, 8461), (51, 8494), (55, 8530), (57, 8539), (62, 8569), (76, 8725), (77, 8731),

Gene: SummitAcademy_12 Start: 7775, Stop: 8614, Start Num: 6

Candidate Starts for SummitAcademy_12:

(4, 7661), (5, 7721), (Start: 6 @7775 has 87 MA's), (9, 7808), (21, 7994), (26, 8054), (27, 8066), (47, 8267), (48, 8276), (49, 8282), (51, 8315), (54, 8345), (62, 8390), (73, 8480),

Gene: Survivors_15 Start: 8732, Stop: 9571, Start Num: 6

Candidate Starts for Survivors_15:

(Start: 6 @8732 has 87 MA's), (9, 8765), (25, 8993), (32, 9074), (38, 9122), (42, 9179), (44, 9191), (47, 9215), (49, 9230), (60, 9323), (64, 9356), (67, 9368), (68, 9371), (78, 9506), (81, 9554),

Gene: SweatNTears_15 Start: 8436, Stop: 9281, Start Num: 6

Candidate Starts for SweatNTears_15:

(4, 8319), (5, 8379), (Start: 6 @8436 has 87 MA's), (9, 8469), (21, 8655), (27, 8727), (47, 8928), (49, 8943), (51, 8976), (57, 9021), (76, 9207), (77, 9213),

Gene: Tarnish_12 Start: 8074, Stop: 8913, Start Num: 6

Candidate Starts for Tarnish_12:

(4, 7960), (5, 8020), (Start: 6 @8074 has 87 MA's), (9, 8107), (21, 8293), (26, 8353), (27, 8365), (47, 8566), (48, 8575), (49, 8581), (51, 8614), (54, 8644), (62, 8689), (73, 8779),

Gene: Tolls_15 Start: 7957, Stop: 8802, Start Num: 6

Candidate Starts for Tolls_15:

(5, 7900), (Start: 6 @7957 has 87 MA's), (9, 7990), (21, 8176), (27, 8248), (47, 8449), (49, 8464), (51, 8497), (55, 8533), (57, 8542), (62, 8572), (76, 8728), (77, 8734),

Gene: Troje_13 Start: 7910, Stop: 8755, Start Num: 6

Candidate Starts for Troje_13:

(4, 7793), (5, 7853), (Start: 6 @7910 has 87 MA's), (9, 7943), (21, 8129), (27, 8201), (47, 8402), (49, 8417), (51, 8450), (57, 8495), (76, 8681), (77, 8687),

Gene: Typhonomachy_13 Start: 7939, Stop: 8781, Start Num: 6

Candidate Starts for Typhonomachy_13:

(Start: 6 @7939 has 87 MA's), (9, 7972), (21, 8158), (27, 8230), (37, 8329), (47, 8431), (48, 8440), (49, 8446), (51, 8479), (55, 8515), (57, 8524), (76, 8710), (77, 8716),

Gene: Vine_14 Start: 8704, Stop: 9543, Start Num: 6

Candidate Starts for Vine_14:

(4, 8590), (5, 8650), (Start: 6 @8704 has 87 MA's), (9, 8737), (21, 8923), (26, 8983), (27, 8995), (47, 9196), (48, 9205), (49, 9211), (51, 9244), (54, 9274), (62, 9319), (73, 9409),

Gene: Vulpecula_13 Start: 9147, Stop: 9977, Start Num: 6

Candidate Starts for Vulpecula_13:

(Start: 6 @9147 has 87 MA's), (29, 9456), (35, 9522), (41, 9579), (48, 9651), (50, 9684), (52, 9696), (56, 9738), (61, 9768), (63, 9783), (72, 9858),

Gene: WileyE_12 Start: 8482, Stop: 9312, Start Num: 6

Candidate Starts for WileyE_12:

(Start: 6 @8482 has 87 MA's), (29, 8791), (35, 8857), (41, 8914), (48, 8986), (50, 9019), (56, 9073), (63, 9118), (72, 9193),

Gene: Wolfwood_17 Start: 8877, Stop: 9716, Start Num: 6

Candidate Starts for Wolfwood_17:

(Start: 6 @8877 has 87 MA's), (9, 8910), (25, 9138), (32, 9219), (38, 9267), (42, 9324), (44, 9336), (47, 9360), (49, 9375), (60, 9468), (64, 9501), (67, 9513), (68, 9516), (78, 9651), (81, 9699),

Gene: Wrigley_14 Start: 8561, Stop: 9406, Start Num: 6

Candidate Starts for Wrigley_14:

(Start: 6 @8561 has 87 MA's), (11, 8630), (12, 8642), (31, 8906), (37, 8951), (38, 8960), (46, 9047), (51, 9101),

Gene: Yakult_14 Start: 7841, Stop: 8674, Start Num: 6

Candidate Starts for Yakult_14:

(Start: 6 @7841 has 87 MA's), (9, 7874), (14, 7946), (17, 7964), (18, 7970), (21, 8048), (32, 8189), (33, 8204), (42, 8294), (44, 8306), (45, 8312), (47, 8330), (49, 8345), (58, 8423), (60, 8435), (71, 8513), (76, 8609), (80, 8657),

Gene: Yarn_12 Start: 7947, Stop: 8792, Start Num: 6

Candidate Starts for Yarn_12:

(5, 7890), (Start: 6 @7947 has 87 MA's), (9, 7980), (21, 8166), (27, 8238), (47, 8439), (49, 8454), (51, 8487), (55, 8523), (57, 8532), (62, 8562), (76, 8718), (77, 8724),

Gene: Yucky_13 Start: 8564, Stop: 9403, Start Num: 6

Candidate Starts for Yucky_13:

(4, 8450), (5, 8510), (Start: 6 @8564 has 87 MA's), (9, 8597), (21, 8783), (26, 8843), (27, 8855), (38, 8963), (47, 9056), (48, 9065), (49, 9071), (51, 9104), (54, 9134), (62, 9179), (73, 9269),

Gene: Yummy_14 Start: 7821, Stop: 8666, Start Num: 6

Candidate Starts for Yummy_14:

(Start: 6 @7821 has 87 MA's), (9, 7854), (21, 8040), (27, 8112), (47, 8313), (49, 8328), (51, 8361), (57, 8406), (76, 8592), (77, 8598),

Gene: Zareef_15 Start: 8879, Stop: 9718, Start Num: 6

Candidate Starts for Zareef_15:

(Start: 6 @8879 has 87 MA's), (9, 8912), (25, 9140), (32, 9221), (38, 9269), (42, 9326), (44, 9338), (47, 9362), (49, 9377), (60, 9470), (64, 9503), (67, 9515), (68, 9518), (78, 9653), (81, 9701),