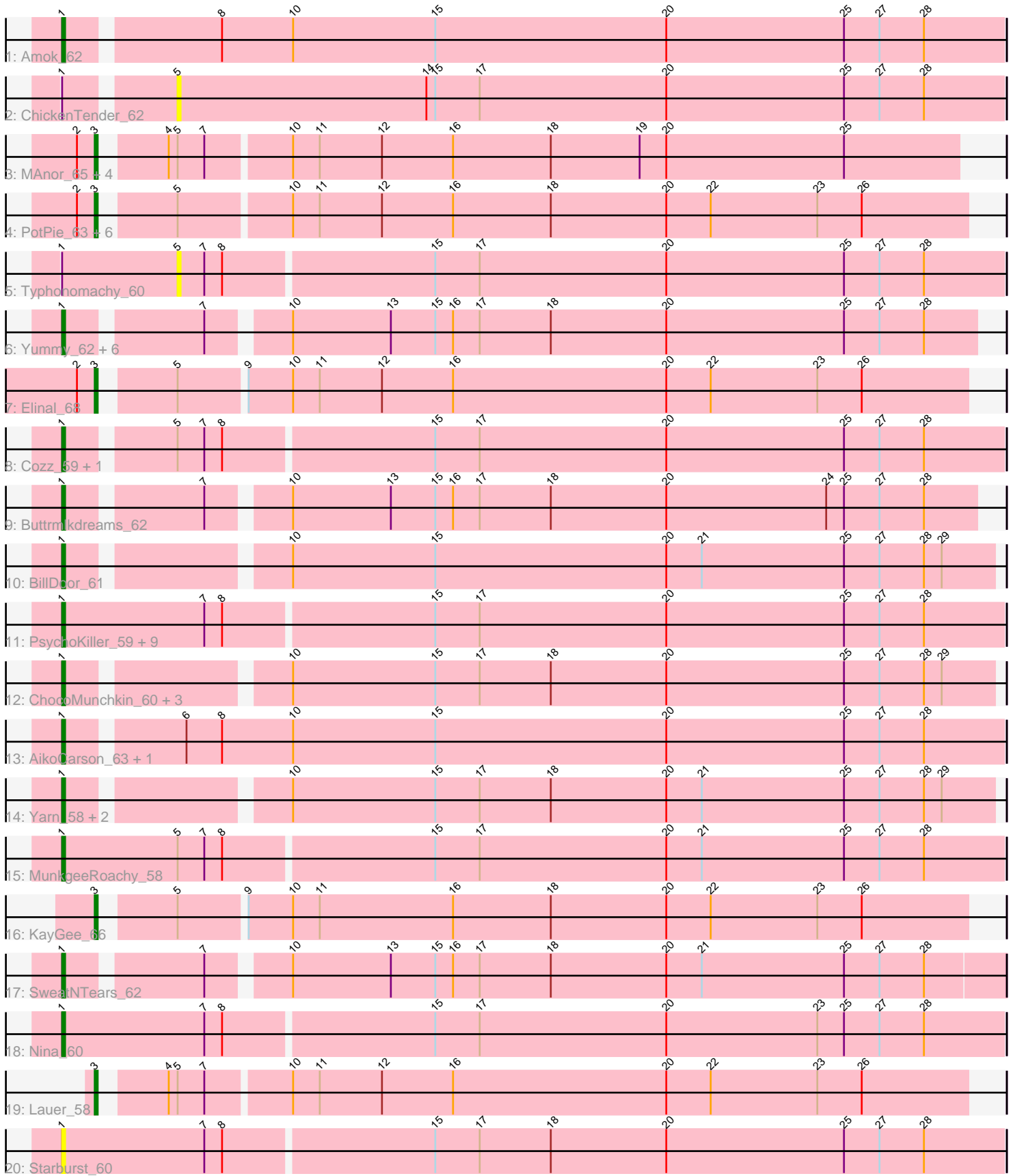


Pham 216244



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 216244 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216244 has 52 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Amok_62
- Track 2 : ChickenTender_62
- Track 3 : MAnor_65, SheckWes_67, Pons_65, Mayweather_67, CherryonLim_64
- Track 4 : PotPie_63, Feastonyeet_63, Vine_66, Yucky_67, Bivilard_62, SummitAcademy_63, BigChungus_63
- Track 5 : Typhonmarchy_60
- Track 6 : Yummy_62, MScarn_64, Blondies_64, Troje_62, Horseradish_62, SketchMex_60, Biskit_62
- Track 7 : Elinal_68
- Track 8 : Cozz_59, Carsonalex_64
- Track 9 : Buttrmlkdreams_62
- Track 10 : BillDoor_61
- Track 11 : PsychoKiller_59, Burnsey_60, RedBaron_66, Elliott_60, Axym_59, GoldHunter_61, Quasar_60, Agatha_60, Sopespian_57, Socotra_61
- Track 12 : ChocoMunchkin_60, Tolls_63, CanesSauce_60, SteamedHams_62
- Track 13 : AikoCarson_63, Emalyn_61
- Track 14 : Yarn_58, AndPeggy_57, GTE2_50
- Track 15 : MunkgeeRoachy_58
- Track 16 : KayGee_66
- Track 17 : SweatNTears_62
- Track 18 : Nina_60
- Track 19 : Lauer_58
- Track 20 : Starburst_60

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

The start number called the most often in the published annotations is 1, it was called in 23 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agatha_60, AikoCarson_63, Amok_62, AndPeggy_57, Axym_59, BillDoor_61, Biskit_62, Blondies_64, Burnsey_60, Buttrmlkdreams_62, CanesSauce_60, Carsonalex_64, ChocoMunchkin_60, Cozz_59, Elliott_60, Emalyn_61, GTE2_50, GoldHunter_61, Horseradish_62, MScarn_64, MunkgeeRoachy_58, Nina_60,

PsychoKiller_59, Quasar_60, RedBaron_66, SketchMex_60, Socotra_61, Sopespian_57, Starburst_60, SteamedHams_62, SweatNTears_62, Tolls_63, Troje_62, Yarn_58, Yummy_62,

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

- ChickenTender_62, Typhonomachy_60,

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

- Bavidard_62, BigChungus_63, CherryonLim_64, Elinal_68, Feastonyeet_63, KayGee_66, Lauer_58, MAnor_65, Mayweather_67, Pons_65, PotPie_63, SheckWes_67, SummitAcademy_63, Vine_66, Yucky_67,

Summary by start number:

Start 1:

- Found in 37 of 52 (71.2%) of genes in pham
- Manual Annotations of this start: 23 of 36
- Called 94.6% of time when present
- Phage (with cluster) where this start called: Agatha_60 (CT), AikoCarson_63 (CT), Amok_62 (CT), AndPeggy_57 (CT), Axym_59 (CT), BillDoor_61 (CT), Biskit_62 (CT), Blondies_64 (CT), Burnsey_60 (CT), Buttrmlkdreams_62 (CT), CanesSauce_60 (CT), Carsonalex_64 (CT), ChocoMunchkin_60 (CT), Cozz_59 (CT), Elliott_60 (CT), Emalyn_61 (CT), GTE2_50 (CT), GoldHunter_61 (CT), Horseradish_62 (CT), MScarn_64 (CT), MunkgeeRoachy_58 (CT), Nina_60 (CT), PsychoKiller_59 (CT), Quasar_60 (CT), RedBaron_66 (CT), SketchMex_60 (CT), Socotra_61 (CT), Sopespian_57 (CT), Starburst_60 (CT), SteamedHams_62 (CT), SweatNTears_62 (CT), Tolls_63 (CT), Troje_62 (CT), Yarn_58 (CT), Yummy_62 (CT),

Start 3:

- Found in 15 of 52 (28.8%) of genes in pham
- Manual Annotations of this start: 13 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bavidard_62 (CT), BigChungus_63 (CT), CherryonLim_64 (CT), Elinal_68 (CT), Feastonyeet_63 (CT), KayGee_66 (CT), Lauer_58 (CT), MAnor_65 (CT), Mayweather_67 (CT), Pons_65 (CT), PotPie_63 (CT), SheckWes_67 (CT), SummitAcademy_63 (CT), Vine_66 (CT), Yucky_67 (CT),

Start 5:

- Found in 20 of 52 (38.5%) of genes in pham
- No Manual Annotations of this start.
- Called 10.0% of time when present
- Phage (with cluster) where this start called: ChickenTender_62 (CT), Typhonomachy_60 (CT),

Summary by clusters:

There is one cluster represented in this pham: CT

Info for manual annotations of cluster CT:

- Start number 1 was manually annotated 23 times for cluster CT.
- Start number 3 was manually annotated 13 times for cluster CT.

Gene Information:

Gene: Agatha_60 Start: 42650, Stop: 42964, Start Num: 1

Candidate Starts for Agatha_60:

(Start: 1 @42650 has 23 MA's), (7, 42698), (8, 42704), (15, 42773), (17, 42788), (20, 42851), (25, 42911), (27, 42923), (28, 42938),

Gene: AikoCarson_63 Start: 42924, Stop: 43235, Start Num: 1

Candidate Starts for AikoCarson_63:

(Start: 1 @42924 has 23 MA's), (6, 42960), (8, 42972), (10, 42996), (15, 43044), (20, 43122), (25, 43182), (27, 43194), (28, 43209),

Gene: Amok_62 Start: 42830, Stop: 43141, Start Num: 1

Candidate Starts for Amok_62:

(Start: 1 @42830 has 23 MA's), (8, 42878), (10, 42902), (15, 42950), (20, 43028), (25, 43088), (27, 43100), (28, 43115),

Gene: AndPeggy_57 Start: 42101, Stop: 42403, Start Num: 1

Candidate Starts for AndPeggy_57:

(Start: 1 @42101 has 23 MA's), (10, 42167), (15, 42215), (17, 42230), (18, 42254), (20, 42293), (21, 42305), (25, 42353), (27, 42365), (28, 42380), (29, 42386),

Gene: Axym_59 Start: 42546, Stop: 42860, Start Num: 1

Candidate Starts for Axym_59:

(Start: 1 @42546 has 23 MA's), (7, 42594), (8, 42600), (15, 42669), (17, 42684), (20, 42747), (25, 42807), (27, 42819), (28, 42834),

Gene: Bavidard_62 Start: 43777, Stop: 44061, Start Num: 3

Candidate Starts for Bavidard_62:

(2, 43771), (Start: 3 @43777 has 13 MA's), (5, 43798), (10, 43834), (11, 43843), (12, 43864), (16, 43888), (18, 43921), (20, 43960), (22, 43975), (23, 44011), (26, 44026),

Gene: BigChungus_63 Start: 44308, Stop: 44592, Start Num: 3

Candidate Starts for BigChungus_63:

(2, 44302), (Start: 3 @44308 has 13 MA's), (5, 44329), (10, 44365), (11, 44374), (12, 44395), (16, 44419), (18, 44452), (20, 44491), (22, 44506), (23, 44542), (26, 44557),

Gene: BillDoor_61 Start: 41785, Stop: 42087, Start Num: 1

Candidate Starts for BillDoor_61:

(Start: 1 @41785 has 23 MA's), (10, 41851), (15, 41899), (20, 41977), (21, 41989), (25, 42037), (27, 42049), (28, 42064), (29, 42070),

Gene: Biskit_62 Start: 42735, Stop: 43031, Start Num: 1

Candidate Starts for Biskit_62:

(Start: 1 @42735 has 23 MA's), (7, 42777), (10, 42801), (13, 42834), (15, 42849), (16, 42855), (17, 42864), (18, 42888), (20, 42927), (25, 42987), (27, 42999), (28, 43014),

Gene: Blondies_64 Start: 43052, Stop: 43348, Start Num: 1

Candidate Starts for Blondies_64:

(Start: 1 @43052 has 23 MA's), (7, 43094), (10, 43118), (13, 43151), (15, 43166), (16, 43172), (17, 43181), (18, 43205), (20, 43244), (25, 43304), (27, 43316), (28, 43331),

Gene: Burnsey_60 Start: 42640, Stop: 42954, Start Num: 1

Candidate Starts for Burnsey_60:

(Start: 1 @42640 has 23 MA's), (7, 42688), (8, 42694), (15, 42763), (17, 42778), (20, 42841), (25, 42901), (27, 42913), (28, 42928),

Gene: Buttrmlkdreams_62 Start: 42913, Stop: 43209, Start Num: 1

Candidate Starts for Buttrmlkdreams_62:

(Start: 1 @42913 has 23 MA's), (7, 42955), (10, 42979), (13, 43012), (15, 43027), (16, 43033), (17, 43042), (18, 43066), (20, 43105), (24, 43159), (25, 43165), (27, 43177), (28, 43192),

Gene: CanesSauce_60 Start: 42262, Stop: 42564, Start Num: 1

Candidate Starts for CanesSauce_60:

(Start: 1 @42262 has 23 MA's), (10, 42328), (15, 42376), (17, 42391), (18, 42415), (20, 42454), (25, 42514), (27, 42526), (28, 42541), (29, 42547),

Gene: Carsonalex_64 Start: 43149, Stop: 43463, Start Num: 1

Candidate Starts for Carsonalex_64:

(Start: 1 @43149 has 23 MA's), (5, 43188), (7, 43197), (8, 43203), (15, 43272), (17, 43287), (20, 43350), (25, 43410), (27, 43422), (28, 43437),

Gene: CherryonLim_64 Start: 45801, Stop: 46082, Start Num: 3

Candidate Starts for CherryonLim_64:

(2, 45795), (Start: 3 @45801 has 13 MA's), (4, 45819), (5, 45822), (7, 45831), (10, 45858), (11, 45867), (12, 45888), (16, 45912), (18, 45945), (19, 45975), (20, 45984), (25, 46044),

Gene: ChickenTender_62 Start: 42295, Stop: 42573, Start Num: 5

Candidate Starts for ChickenTender_62:

(Start: 1 @42262 has 23 MA's), (5, 42295), (14, 42379), (15, 42382), (17, 42397), (20, 42460), (25, 42520), (27, 42532), (28, 42547),

Gene: ChocoMunchkin_60 Start: 42262, Stop: 42564, Start Num: 1

Candidate Starts for ChocoMunchkin_60:

(Start: 1 @42262 has 23 MA's), (10, 42328), (15, 42376), (17, 42391), (18, 42415), (20, 42454), (25, 42514), (27, 42526), (28, 42541), (29, 42547),

Gene: Cozz_59 Start: 42658, Stop: 42966, Start Num: 1

Candidate Starts for Cozz_59:

(Start: 1 @42658 has 23 MA's), (5, 42691), (7, 42700), (8, 42706), (15, 42775), (17, 42790), (20, 42853), (25, 42913), (27, 42925), (28, 42940),

Gene: Elinal_68 Start: 45087, Stop: 45371, Start Num: 3

Candidate Starts for Elinal_68:

(2, 45081), (Start: 3 @45087 has 13 MA's), (5, 45108), (9, 45129), (10, 45144), (11, 45153), (12, 45174), (16, 45198), (20, 45270), (22, 45285), (23, 45321), (26, 45336),

Gene: Elliott_60 Start: 42533, Stop: 42847, Start Num: 1

Candidate Starts for Elliott_60:

(Start: 1 @42533 has 23 MA's), (7, 42581), (8, 42587), (15, 42656), (17, 42671), (20, 42734), (25, 42794), (27, 42806), (28, 42821),

Gene: Emalyn_61 Start: 41662, Stop: 41973, Start Num: 1

Candidate Starts for Emalyn_61:

(Start: 1 @41662 has 23 MA's), (6, 41698), (8, 41710), (10, 41734), (15, 41782), (20, 41860), (25, 41920), (27, 41932), (28, 41947),

Gene: Feastonyeet_63 Start: 44308, Stop: 44592, Start Num: 3

Candidate Starts for Feastonyeet_63:

(2, 44302), (Start: 3 @44308 has 13 MA's), (5, 44329), (10, 44365), (11, 44374), (12, 44395), (16, 44419), (18, 44452), (20, 44491), (22, 44506), (23, 44542), (26, 44557),

Gene: GTE2_50 Start: 42721, Stop: 43014, Start Num: 1

Candidate Starts for GTE2_50:

(Start: 1 @42721 has 23 MA's), (10, 42787), (15, 42835), (17, 42850), (18, 42874), (20, 42913), (21, 42925), (25, 42973), (27, 42985), (28, 43000), (29, 43006),

Gene: GoldHunter_61 Start: 42650, Stop: 42964, Start Num: 1

Candidate Starts for GoldHunter_61:

(Start: 1 @42650 has 23 MA's), (7, 42698), (8, 42704), (15, 42773), (17, 42788), (20, 42851), (25, 42911), (27, 42923), (28, 42938),

Gene: Horseradish_62 Start: 42668, Stop: 42964, Start Num: 1

Candidate Starts for Horseradish_62:

(Start: 1 @42668 has 23 MA's), (7, 42710), (10, 42734), (13, 42767), (15, 42782), (16, 42788), (17, 42797), (18, 42821), (20, 42860), (25, 42920), (27, 42932), (28, 42947),

Gene: KayGee_66 Start: 45086, Stop: 45370, Start Num: 3

Candidate Starts for KayGee_66:

(Start: 3 @45086 has 13 MA's), (5, 45107), (9, 45128), (10, 45143), (11, 45152), (16, 45197), (18, 45230), (20, 45269), (22, 45284), (23, 45320), (26, 45335),

Gene: Lauer_58 Start: 45271, Stop: 45555, Start Num: 3

Candidate Starts for Lauer_58:

(Start: 3 @45271 has 13 MA's), (4, 45289), (5, 45292), (7, 45301), (10, 45328), (11, 45337), (12, 45358), (16, 45382), (20, 45454), (22, 45469), (23, 45505), (26, 45520),

Gene: MAnor_65 Start: 45226, Stop: 45507, Start Num: 3

Candidate Starts for MAnor_65:

(2, 45220), (Start: 3 @45226 has 13 MA's), (4, 45244), (5, 45247), (7, 45256), (10, 45283), (11, 45292), (12, 45313), (16, 45337), (18, 45370), (19, 45400), (20, 45409), (25, 45469),

Gene: MScarn_64 Start: 42580, Stop: 42876, Start Num: 1

Candidate Starts for MScarn_64:

(Start: 1 @42580 has 23 MA's), (7, 42622), (10, 42646), (13, 42679), (15, 42694), (16, 42700), (17, 42709), (18, 42733), (20, 42772), (25, 42832), (27, 42844), (28, 42859),

Gene: Mayweather_67 Start: 45460, Stop: 45741, Start Num: 3

Candidate Starts for Mayweather_67:

(2, 45454), (Start: 3 @45460 has 13 MA's), (4, 45478), (5, 45481), (7, 45490), (10, 45517), (11, 45526), (12, 45547), (16, 45571), (18, 45604), (19, 45634), (20, 45643), (25, 45703),

Gene: MunkgeeRoachy_58 Start: 41984, Stop: 42298, Start Num: 1

Candidate Starts for MunkgeeRoachy_58:

(Start: 1 @41984 has 23 MA's), (5, 42023), (7, 42032), (8, 42038), (15, 42107), (17, 42122), (20, 42185), (21, 42197), (25, 42245), (27, 42257), (28, 42272),

Gene: Nina_60 Start: 43136, Stop: 43450, Start Num: 1

Candidate Starts for Nina_60:

(Start: 1 @43136 has 23 MA's), (7, 43184), (8, 43190), (15, 43259), (17, 43274), (20, 43337), (23, 43388), (25, 43397), (27, 43409), (28, 43424),

Gene: Pons_65 Start: 44802, Stop: 45083, Start Num: 3

Candidate Starts for Pons_65:

(2, 44796), (Start: 3 @44802 has 13 MA's), (4, 44820), (5, 44823), (7, 44832), (10, 44859), (11, 44868), (12, 44889), (16, 44913), (18, 44946), (19, 44976), (20, 44985), (25, 45045),

Gene: PotPie_63 Start: 45343, Stop: 45627, Start Num: 3

Candidate Starts for PotPie_63:

(2, 45337), (Start: 3 @45343 has 13 MA's), (5, 45364), (10, 45400), (11, 45409), (12, 45430), (16, 45454), (18, 45487), (20, 45526), (22, 45541), (23, 45577), (26, 45592),

Gene: PsychoKiller_59 Start: 42534, Stop: 42848, Start Num: 1

Candidate Starts for PsychoKiller_59:

(Start: 1 @42534 has 23 MA's), (7, 42582), (8, 42588), (15, 42657), (17, 42672), (20, 42735), (25, 42795), (27, 42807), (28, 42822),

Gene: Quasar_60 Start: 43239, Stop: 43547, Start Num: 1

Candidate Starts for Quasar_60:

(Start: 1 @43239 has 23 MA's), (7, 43281), (8, 43287), (15, 43356), (17, 43371), (20, 43434), (25, 43494), (27, 43506), (28, 43521),

Gene: RedBaron_66 Start: 43956, Stop: 44270, Start Num: 1

Candidate Starts for RedBaron_66:

(Start: 1 @43956 has 23 MA's), (7, 44004), (8, 44010), (15, 44079), (17, 44094), (20, 44157), (25, 44217), (27, 44229), (28, 44244),

Gene: SheckWes_67 Start: 44362, Stop: 44643, Start Num: 3

Candidate Starts for SheckWes_67:

(2, 44356), (Start: 3 @44362 has 13 MA's), (4, 44380), (5, 44383), (7, 44392), (10, 44419), (11, 44428), (12, 44449), (16, 44473), (18, 44506), (19, 44536), (20, 44545), (25, 44605),

Gene: SketchMex_60 Start: 42735, Stop: 43031, Start Num: 1

Candidate Starts for SketchMex_60:

(Start: 1 @42735 has 23 MA's), (7, 42777), (10, 42801), (13, 42834), (15, 42849), (16, 42855), (17, 42864), (18, 42888), (20, 42927), (25, 42987), (27, 42999), (28, 43014),

Gene: Socotra_61 Start: 42634, Stop: 42948, Start Num: 1

Candidate Starts for Socotra_61:

(Start: 1 @42634 has 23 MA's), (7, 42682), (8, 42688), (15, 42757), (17, 42772), (20, 42835), (25, 42895), (27, 42907), (28, 42922),

Gene: Sopespian_57 Start: 42535, Stop: 42849, Start Num: 1

Candidate Starts for Sopespian_57:

(Start: 1 @42535 has 23 MA's), (7, 42583), (8, 42589), (15, 42658), (17, 42673), (20, 42736), (25, 42796), (27, 42808), (28, 42823),

Gene: Starburst_60 Start: 42530, Stop: 42844, Start Num: 1

Candidate Starts for Starburst_60:

(Start: 1 @42530 has 23 MA's), (7, 42578), (8, 42584), (15, 42653), (17, 42668), (18, 42692), (20, 42731), (25, 42791), (27, 42803), (28, 42818),

Gene: SteamedHams_62 Start: 42078, Stop: 42380, Start Num: 1
Candidate Starts for SteamedHams_62:
(Start: 1 @42078 has 23 MA's), (10, 42144), (15, 42192), (17, 42207), (18, 42231), (20, 42270), (25, 42330), (27, 42342), (28, 42357), (29, 42363),

Gene: SummitAcademy_63 Start: 44486, Stop: 44770, Start Num: 3
Candidate Starts for SummitAcademy_63:
(2, 44480), (Start: 3 @44486 has 13 MA's), (5, 44507), (10, 44543), (11, 44552), (12, 44573), (16, 44597), (18, 44630), (20, 44669), (22, 44684), (23, 44720), (26, 44735),

Gene: SweatNTears_62 Start: 42809, Stop: 43114, Start Num: 1
Candidate Starts for SweatNTears_62:
(Start: 1 @42809 has 23 MA's), (7, 42851), (10, 42875), (13, 42908), (15, 42923), (16, 42929), (17, 42938), (18, 42962), (20, 43001), (21, 43013), (25, 43061), (27, 43073), (28, 43088),

Gene: Tolls_63 Start: 42349, Stop: 42651, Start Num: 1
Candidate Starts for Tolls_63:
(Start: 1 @42349 has 23 MA's), (10, 42415), (15, 42463), (17, 42478), (18, 42502), (20, 42541), (25, 42601), (27, 42613), (28, 42628), (29, 42634),

Gene: Troje_62 Start: 42803, Stop: 43099, Start Num: 1
Candidate Starts for Troje_62:
(Start: 1 @42803 has 23 MA's), (7, 42845), (10, 42869), (13, 42902), (15, 42917), (16, 42923), (17, 42932), (18, 42956), (20, 42995), (25, 43055), (27, 43067), (28, 43082),

Gene: Typhonomachy_60 Start: 42386, Stop: 42661, Start Num: 5
Candidate Starts for Typhonomachy_60:
(Start: 1 @42347 has 23 MA's), (5, 42386), (7, 42395), (8, 42401), (15, 42470), (17, 42485), (20, 42548), (25, 42608), (27, 42620), (28, 42635),

Gene: Vine_66 Start: 45109, Stop: 45393, Start Num: 3
Candidate Starts for Vine_66:
(2, 45103), (Start: 3 @45109 has 13 MA's), (5, 45130), (10, 45166), (11, 45175), (12, 45196), (16, 45220), (18, 45253), (20, 45292), (22, 45307), (23, 45343), (26, 45358),

Gene: Yarn_58 Start: 42106, Stop: 42408, Start Num: 1
Candidate Starts for Yarn_58:
(Start: 1 @42106 has 23 MA's), (10, 42172), (15, 42220), (17, 42235), (18, 42259), (20, 42298), (21, 42310), (25, 42358), (27, 42370), (28, 42385), (29, 42391),

Gene: Yucky_67 Start: 44901, Stop: 45185, Start Num: 3
Candidate Starts for Yucky_67:
(2, 44895), (Start: 3 @44901 has 13 MA's), (5, 44922), (10, 44958), (11, 44967), (12, 44988), (16, 45012), (18, 45045), (20, 45084), (22, 45099), (23, 45135), (26, 45150),

Gene: Yummy_62 Start: 42782, Stop: 43078, Start Num: 1
Candidate Starts for Yummy_62:
(Start: 1 @42782 has 23 MA's), (7, 42824), (10, 42848), (13, 42881), (15, 42896), (16, 42902), (17, 42911), (18, 42935), (20, 42974), (25, 43034), (27, 43046), (28, 43061),