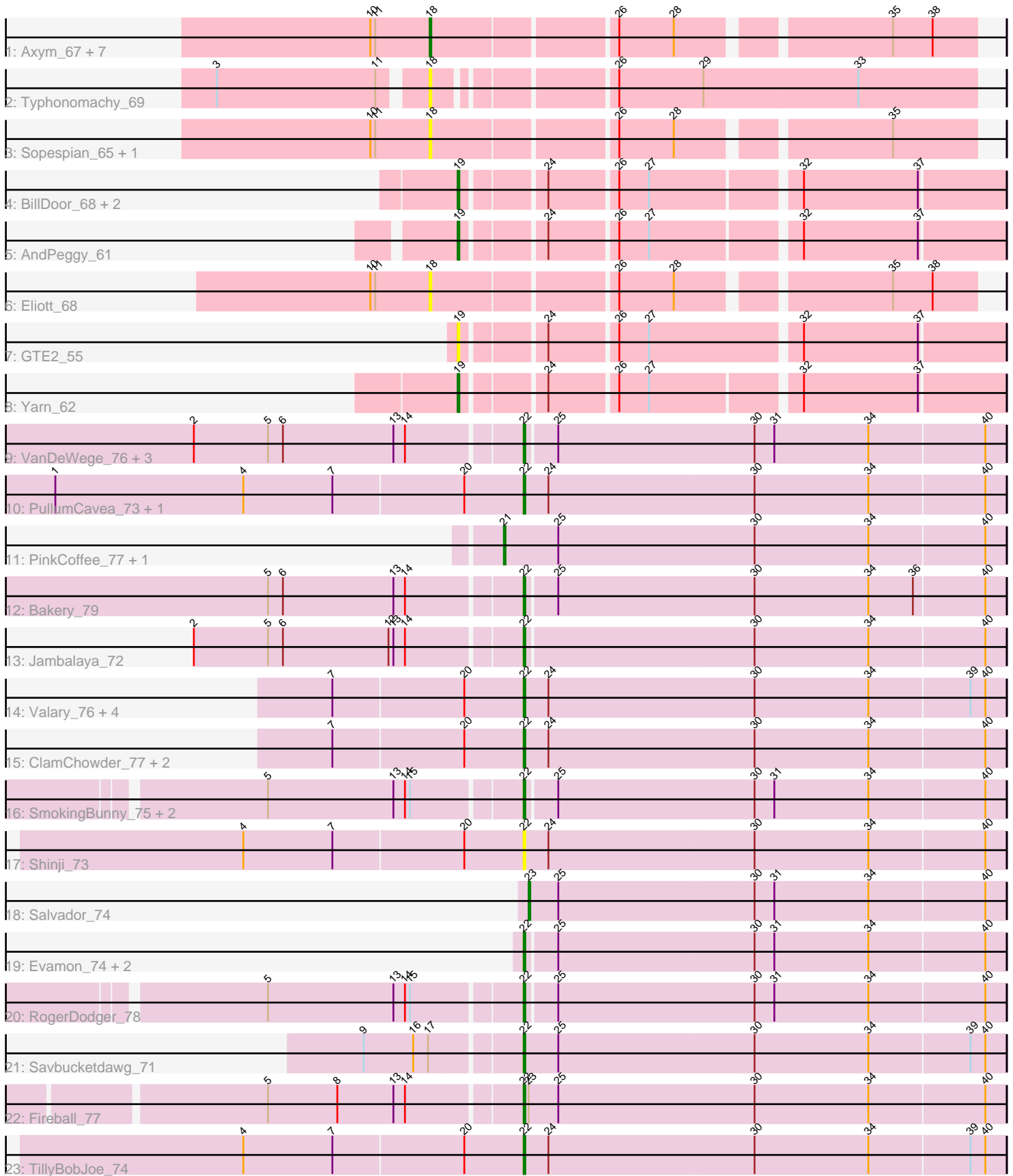


Pham 2061



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 2061 Report

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

Pham number 2061 has 48 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Axym_67, GoldHunter_70, Burnsey_68, Quasar_69, Nina_68, Agatha_69, Cozz_68, RedBaron_74
- Track 2 : Typhonmachy_69
- Track 3 : Sopeopian_65, PsychoKiller_67
- Track 4 : BillDoor_68, Tolls_67, SteamedHams_66
- Track 5 : AndPeggy_61
- Track 6 : Elliott_68
- Track 7 : GTE2_55
- Track 8 : Yarn_62
- Track 9 : VanDeWege_76, Nubi_74, Arri_75, Portcullis_75
- Track 10 : PullumCavea_73, Phlop_72
- Track 11 : PinkCoffee_77, Danyall_76
- Track 12 : Bakery_79
- Track 13 : Jambalaya_72
- Track 14 : Valary_76, Gezellig_75, KimmyK_75, Halo3_73, Wizard_72
- Track 15 : ClamChowder_77, Fugax_78, Barb_77
- Track 16 : SmokingBunny_75, Togo_74, Twister6_75
- Track 17 : Shinji_73
- Track 18 : Salvador_74
- Track 19 : Evamon_74, Mutzi_73, YungMoney_74
- Track 20 : RogerDodger_78
- Track 21 : Savbucketdawg_71
- Track 22 : Fireball_77
- Track 23 : TillyBobJoe_74

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

The start number called the most often in the published annotations is 22, it was called in 25 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arri_75, Bakery_79, Barb_77, ClamChowder_77, Evamon_74, Fireball_77, Fugax_78, Gezellig_75, Halo3_73, Jambalaya_72, KimmyK_75, Mutzi_73, Nubi_74, Phlop_72, Portcullis_75, PullumCavea_73, RogerDodger_78, Savbucketdawg_71,

Shinji_73, SmokingBunny_75, TillyBobJoe_74, Togo_74, Twister6_75, Valary_76, VanDeWege_76, Wizard_72, YungMoney_74,

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

-

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

- Agatha_69, AndPeggy_61, Axym_67, BillDoor_68, Burnsey_68, Cozz_68, Danyall_76, Elliott_68, GTE2_55, GoldHunter_70, Nina_68, PinkCoffee_77, PsychoKiller_67, Quasar_69, RedBaron_74, Salvador_74, Sopespian_65, SteamedHams_66, Tolls_67, Typhonomachy_69, Yarn_62,

Summary by start number:

Start 18:

- Found in 12 of 48 (25.0%) of genes in pham
- Manual Annotations of this start: 6 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agatha_69 (CT), Axym_67 (CT), Burnsey_68 (CT), Cozz_68 (CT), Elliott_68 (CT), GoldHunter_70 (CT), Nina_68 (CT), PsychoKiller_67 (CT), Quasar_69 (CT), RedBaron_74 (CT), Sopespian_65 (CT), Typhonomachy_69 (CT),

Start 19:

- Found in 6 of 48 (12.5%) of genes in pham
- Manual Annotations of this start: 5 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AndPeggy_61 (CT), BillDoor_68 (CT), GTE2_55 (CT), SteamedHams_66 (CT), Tolls_67 (CT), Yarn_62 (CT),

Start 21:

- Found in 2 of 48 (4.2%) of genes in pham
- Manual Annotations of this start: 2 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Danyall_76 (DC1), PinkCoffee_77 (DC1),

Start 22:

- Found in 27 of 48 (56.2%) of genes in pham
- Manual Annotations of this start: 25 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arri_75 (DC1), Bakery_79 (DC1), Barb_77 (DC1), ClamChowder_77 (DC1), Evamon_74 (DC1), Fireball_77 (DC1), Fugax_78 (DC1), Gezellig_75 (DC1), Halo3_73 (DC1), Jambalaya_72 (DC1), KimmyK_75 (DC1), Mutzi_73 (DC1), Nubi_74 (DC1), Phlop_72 (DC1), Portcullis_75 (DC1), PullumCavea_73 (DC1), RogerDodger_78 (DC1), Savbucketdawg_71 (DC1), Shinji_73 (DC1), SmokingBunny_75 (DC1), TillyBobJoe_74 (DC1), Togo_74 (DC1), Twister6_75 (DC1), Valary_76 (DC1), VanDeWege_76 (DC1), Wizard_72 (DC1), YungMoney_74 (DC1),

Start 23:

- Found in 2 of 48 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 39

- Called 50.0% of time when present
- Phage (with cluster) where this start called: Salvador_74 (DC1),

Summary by clusters:

There are 2 clusters represented in this pham: DC1, CT,

Info for manual annotations of cluster CT:

- Start number 18 was manually annotated 6 times for cluster CT.
- Start number 19 was manually annotated 5 times for cluster CT.

Info for manual annotations of cluster DC1:

- Start number 21 was manually annotated 2 times for cluster DC1.
- Start number 22 was manually annotated 25 times for cluster DC1.
- Start number 23 was manually annotated 1 time for cluster DC1.

Gene Information:

Gene: Agatha_69 Start: 45486, Stop: 45791, Start Num: 18

Candidate Starts for Agatha_69:

(10, 45450), (11, 45453), (Start: 18 @45486 has 6 MA's), (26, 45591), (28, 45624), (35, 45741), (38, 45765),

Gene: AndPeggy_61 Start: 43446, Stop: 43751, Start Num: 19

Candidate Starts for AndPeggy_61:

(Start: 19 @43446 has 5 MA's), (24, 43491), (26, 43530), (27, 43548), (32, 43632), (37, 43701),

Gene: Arri_75 Start: 50960, Stop: 51244, Start Num: 22

Candidate Starts for Arri_75:

(2, 50768), (5, 50813), (6, 50822), (13, 50888), (14, 50894), (Start: 22 @50960 has 25 MA's), (25, 50978), (30, 51095), (31, 51107), (34, 51164), (40, 51233),

Gene: Axym_67 Start: 45361, Stop: 45666, Start Num: 18

Candidate Starts for Axym_67:

(10, 45325), (11, 45328), (Start: 18 @45361 has 6 MA's), (26, 45466), (28, 45499), (35, 45616), (38, 45640),

Gene: Bakery_79 Start: 53229, Stop: 53513, Start Num: 22

Candidate Starts for Bakery_79:

(5, 53082), (6, 53091), (13, 53157), (14, 53163), (Start: 22 @53229 has 25 MA's), (25, 53247), (30, 53364), (34, 53433), (36, 53460), (40, 53502),

Gene: Barb_77 Start: 51072, Stop: 51359, Start Num: 22

Candidate Starts for Barb_77:

(7, 50958), (20, 51036), (Start: 22 @51072 has 25 MA's), (24, 51087), (30, 51210), (34, 51279), (40, 51348),

Gene: BillDoor_68 Start: 43719, Stop: 44024, Start Num: 19

Candidate Starts for BillDoor_68:

(Start: 19 @43719 has 5 MA's), (24, 43764), (26, 43803), (27, 43821), (32, 43905), (37, 43974),

Gene: Burnsey_68 Start: 45073, Stop: 45378, Start Num: 18

Candidate Starts for Burnsey_68:

(10, 45037), (11, 45040), (Start: 18 @45073 has 6 MA's), (26, 45178), (28, 45211), (35, 45328), (38, 45352),

Gene: ClamChowder_77 Start: 51072, Stop: 51359, Start Num: 22

Candidate Starts for ClamChowder_77:

(7, 50958), (20, 51036), (Start: 22 @51072 has 25 MA's), (24, 51087), (30, 51210), (34, 51279), (40, 51348),

Gene: Cozz_68 Start: 45488, Stop: 45793, Start Num: 18

Candidate Starts for Cozz_68:

(10, 45452), (11, 45455), (Start: 18 @45488 has 6 MA's), (26, 45593), (28, 45626), (35, 45743), (38, 45767),

Gene: Danyall_76 Start: 51149, Stop: 51448, Start Num: 21

Candidate Starts for Danyall_76:

(Start: 21 @51149 has 2 MA's), (25, 51182), (30, 51299), (34, 51368), (40, 51437),

Gene: Elliott_68 Start: 44957, Stop: 45262, Start Num: 18

Candidate Starts for Elliott_68:

(10, 44921), (11, 44924), (Start: 18 @44957 has 6 MA's), (26, 45062), (28, 45095), (35, 45212), (38, 45236),

Gene: Evamon_74 Start: 50696, Stop: 50980, Start Num: 22

Candidate Starts for Evamon_74:

(Start: 22 @50696 has 25 MA's), (25, 50714), (30, 50831), (31, 50843), (34, 50900), (40, 50969),

Gene: Fireball_77 Start: 51365, Stop: 51652, Start Num: 22

Candidate Starts for Fireball_77:

(5, 51218), (8, 51260), (13, 51293), (14, 51299), (Start: 22 @51365 has 25 MA's), (Start: 23 @51368 has 1 MA's), (25, 51386), (30, 51503), (34, 51572), (40, 51641),

Gene: Fugax_78 Start: 51064, Stop: 51351, Start Num: 22

Candidate Starts for Fugax_78:

(7, 50950), (20, 51028), (Start: 22 @51064 has 25 MA's), (24, 51079), (30, 51202), (34, 51271), (40, 51340),

Gene: GTE2_55 Start: 44385, Stop: 44693, Start Num: 19

Candidate Starts for GTE2_55:

(Start: 19 @44385 has 5 MA's), (24, 44430), (26, 44469), (27, 44487), (32, 44574), (37, 44643),

Gene: Gezellig_75 Start: 50708, Stop: 50995, Start Num: 22

Candidate Starts for Gezellig_75:

(7, 50594), (20, 50672), (Start: 22 @50708 has 25 MA's), (24, 50723), (30, 50846), (34, 50915), (39, 50975), (40, 50984),

Gene: GoldHunter_70 Start: 45477, Stop: 45782, Start Num: 18

Candidate Starts for GoldHunter_70:

(10, 45441), (11, 45444), (Start: 18 @45477 has 6 MA's), (26, 45582), (28, 45615), (35, 45732), (38, 45756),

Gene: Halo3_73 Start: 51293, Stop: 51580, Start Num: 22

Candidate Starts for Halo3_73:

(7, 51179), (20, 51257), (Start: 22 @51293 has 25 MA's), (24, 51308), (30, 51431), (34, 51500), (39, 51560), (40, 51569),

Gene: Jambalaya_72 Start: 50263, Stop: 50547, Start Num: 22

Candidate Starts for Jambalaya_72:

(2, 50071), (5, 50116), (6, 50125), (12, 50188), (13, 50191), (14, 50197), (Start: 22 @50263 has 25 MA's), (30, 50398), (34, 50467), (40, 50536),

Gene: KimmyK_75 Start: 51155, Stop: 51442, Start Num: 22

Candidate Starts for KimmyK_75:

(7, 51041), (20, 51119), (Start: 22 @51155 has 25 MA's), (24, 51170), (30, 51293), (34, 51362), (39, 51422), (40, 51431),

Gene: Mutzi_73 Start: 51788, Stop: 52072, Start Num: 22

Candidate Starts for Mutzi_73:

(Start: 22 @51788 has 25 MA's), (25, 51806), (30, 51923), (31, 51935), (34, 51992), (40, 52061),

Gene: Nina_68 Start: 45560, Stop: 45865, Start Num: 18

Candidate Starts for Nina_68:

(10, 45524), (11, 45527), (Start: 18 @45560 has 6 MA's), (26, 45665), (28, 45698), (35, 45815), (38, 45839),

Gene: Nubi_74 Start: 50588, Stop: 50872, Start Num: 22

Candidate Starts for Nubi_74:

(2, 50396), (5, 50441), (6, 50450), (13, 50516), (14, 50522), (Start: 22 @50588 has 25 MA's), (25, 50606), (30, 50723), (31, 50735), (34, 50792), (40, 50861),

Gene: Phlop_72 Start: 50577, Stop: 50864, Start Num: 22

Candidate Starts for Phlop_72:

(1, 50295), (4, 50409), (7, 50463), (20, 50541), (Start: 22 @50577 has 25 MA's), (24, 50592), (30, 50715), (34, 50784), (40, 50853),

Gene: PinkCoffee_77 Start: 51190, Stop: 51489, Start Num: 21

Candidate Starts for PinkCoffee_77:

(Start: 21 @51190 has 2 MA's), (25, 51223), (30, 51340), (34, 51409), (40, 51478),

Gene: Portcullis_75 Start: 50666, Stop: 50950, Start Num: 22

Candidate Starts for Portcullis_75:

(2, 50474), (5, 50519), (6, 50528), (13, 50594), (14, 50600), (Start: 22 @50666 has 25 MA's), (25, 50684), (30, 50801), (31, 50813), (34, 50870), (40, 50939),

Gene: PsychoKiller_67 Start: 44958, Stop: 45263, Start Num: 18

Candidate Starts for PsychoKiller_67:

(10, 44922), (11, 44925), (Start: 18 @44958 has 6 MA's), (26, 45063), (28, 45096), (35, 45213),

Gene: PullumCavea_73 Start: 50754, Stop: 51041, Start Num: 22

Candidate Starts for PullumCavea_73:

(1, 50472), (4, 50586), (7, 50640), (20, 50718), (Start: 22 @50754 has 25 MA's), (24, 50769), (30, 50892), (34, 50961), (40, 51030),

Gene: Quasar_69 Start: 45847, Stop: 46152, Start Num: 18

Candidate Starts for Quasar_69:

(10, 45811), (11, 45814), (Start: 18 @45847 has 6 MA's), (26, 45952), (28, 45985), (35, 46102), (38, 46126),

Gene: RedBaron_74 Start: 46384, Stop: 46689, Start Num: 18

Candidate Starts for RedBaron_74:

(10, 46348), (11, 46351), (Start: 18 @46384 has 6 MA's), (26, 46489), (28, 46522), (35, 46639), (38, 46663),

Gene: RogerDodger_78 Start: 51852, Stop: 52136, Start Num: 22

Candidate Starts for RogerDodger_78:

(5, 51705), (13, 51780), (14, 51786), (15, 51789), (Start: 22 @51852 has 25 MA's), (25, 51870), (30, 51987), (31, 51999), (34, 52056), (40, 52125),

Gene: Salvador_74 Start: 50694, Stop: 50978, Start Num: 23

Candidate Starts for Salvador_74:

(Start: 23 @50694 has 1 MA's), (25, 50712), (30, 50829), (31, 50841), (34, 50898), (40, 50967),

Gene: Savbucketdawg_71 Start: 50270, Stop: 50557, Start Num: 22

Candidate Starts for Savbucketdawg_71:

(9, 50180), (16, 50210), (17, 50219), (Start: 22 @50270 has 25 MA's), (25, 50291), (30, 50408), (34, 50477), (39, 50537), (40, 50546),

Gene: Shinji_73 Start: 50358, Stop: 50645, Start Num: 22

Candidate Starts for Shinji_73:

(4, 50190), (7, 50244), (20, 50322), (Start: 22 @50358 has 25 MA's), (24, 50373), (30, 50496), (34, 50565), (40, 50634),

Gene: SmokingBunny_75 Start: 51690, Stop: 51974, Start Num: 22

Candidate Starts for SmokingBunny_75:

(5, 51543), (13, 51618), (14, 51624), (15, 51627), (Start: 22 @51690 has 25 MA's), (25, 51708), (30, 51825), (31, 51837), (34, 51894), (40, 51963),

Gene: Sopespian_65 Start: 44959, Stop: 45264, Start Num: 18

Candidate Starts for Sopespian_65:

(10, 44923), (11, 44926), (Start: 18 @44959 has 6 MA's), (26, 45064), (28, 45097), (35, 45214),

Gene: SteamedHams_66 Start: 43429, Stop: 43728, Start Num: 19

Candidate Starts for SteamedHams_66:

(Start: 19 @43429 has 5 MA's), (24, 43474), (26, 43513), (27, 43531), (32, 43615), (37, 43684),

Gene: TillyBobJoe_74 Start: 50884, Stop: 51171, Start Num: 22

Candidate Starts for TillyBobJoe_74:

(4, 50716), (7, 50770), (20, 50848), (Start: 22 @50884 has 25 MA's), (24, 50899), (30, 51022), (34, 51091), (39, 51151), (40, 51160),

Gene: Togo_74 Start: 51690, Stop: 51974, Start Num: 22

Candidate Starts for Togo_74:

(5, 51543), (13, 51618), (14, 51624), (15, 51627), (Start: 22 @51690 has 25 MA's), (25, 51708), (30, 51825), (31, 51837), (34, 51894), (40, 51963),

Gene: Tolls_67 Start: 43700, Stop: 44008, Start Num: 19

Candidate Starts for Tolls_67:

(Start: 19 @43700 has 5 MA's), (24, 43745), (26, 43784), (27, 43802), (32, 43889), (37, 43958),

Gene: Twister6_75 Start: 50039, Stop: 50323, Start Num: 22

Candidate Starts for Twister6_75:

(5, 49892), (13, 49967), (14, 49973), (15, 49976), (Start: 22 @50039 has 25 MA's), (25, 50057), (30, 50174), (31, 50186), (34, 50243), (40, 50312),

Gene: Typhonomachy_69 Start: 45176, Stop: 45487, Start Num: 18

Candidate Starts for Typhonomachy_69:

(3, 45056), (11, 45152), (Start: 18 @45176 has 6 MA's), (26, 45272), (29, 45323), (33, 45416),

Gene: Valary_76 Start: 51530, Stop: 51817, Start Num: 22

Candidate Starts for Valary_76:

(7, 51416), (20, 51494), (Start: 22 @51530 has 25 MA's), (24, 51545), (30, 51668), (34, 51737), (39, 51797), (40, 51806),

Gene: VanDeWege_76 Start: 51023, Stop: 51307, Start Num: 22

Candidate Starts for VanDeWege_76:

(2, 50831), (5, 50876), (6, 50885), (13, 50951), (14, 50957), (Start: 22 @51023 has 25 MA's), (25, 51041), (30, 51158), (31, 51170), (34, 51227), (40, 51296),

Gene: Wizard_72 Start: 50708, Stop: 50995, Start Num: 22

Candidate Starts for Wizard_72:

(7, 50594), (20, 50672), (Start: 22 @50708 has 25 MA's), (24, 50723), (30, 50846), (34, 50915), (39, 50975), (40, 50984),

Gene: Yarn_62 Start: 43457, Stop: 43762, Start Num: 19

Candidate Starts for Yarn_62:

(Start: 19 @43457 has 5 MA's), (24, 43502), (26, 43541), (27, 43559), (32, 43643), (37, 43712),

Gene: YungMoney_74 Start: 52628, Stop: 52912, Start Num: 22

Candidate Starts for YungMoney_74:

(Start: 22 @52628 has 25 MA's), (25, 52646), (30, 52763), (31, 52775), (34, 52832), (40, 52901),