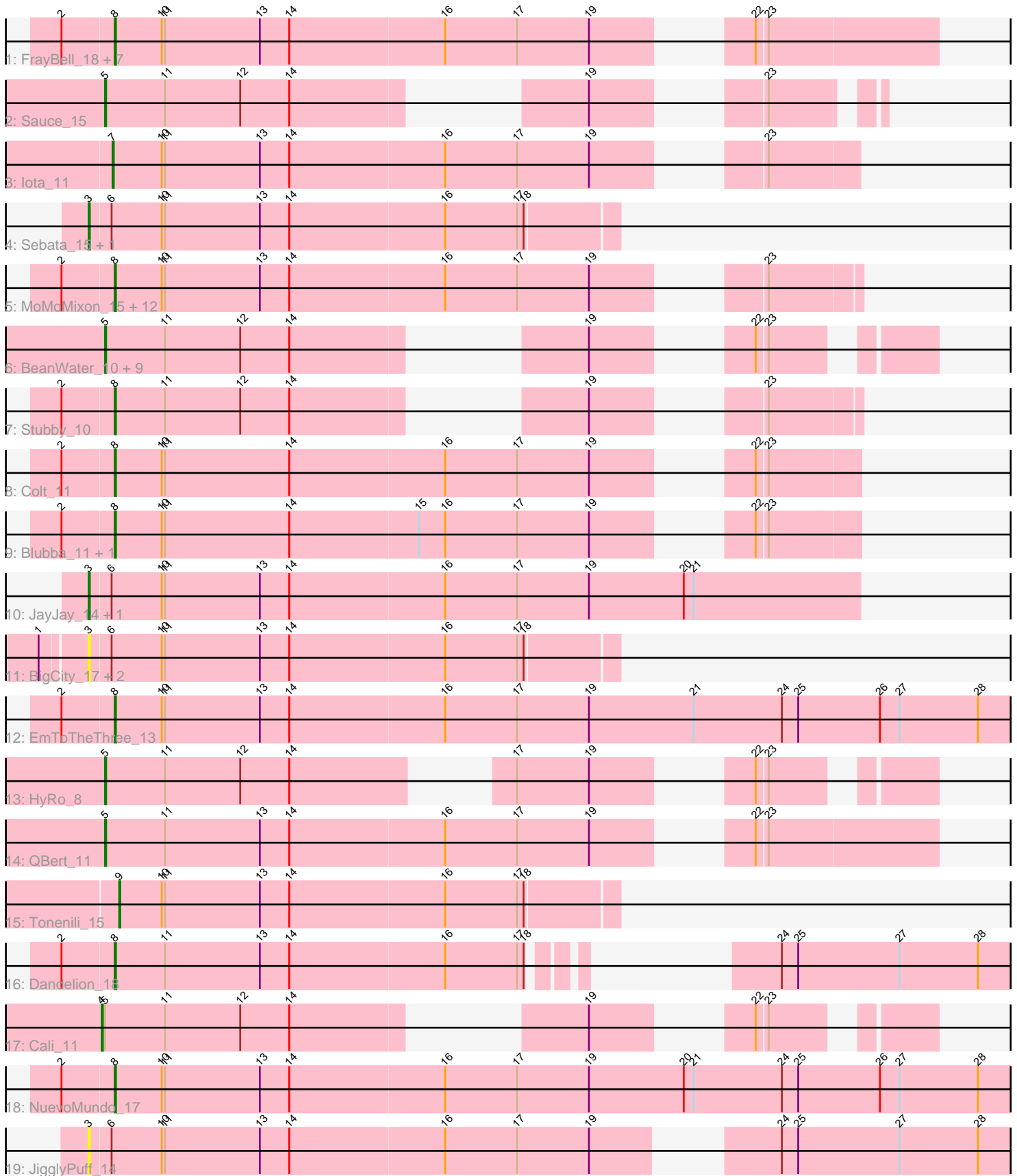


Pham 191333



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 191333 Report

This analysis was run 11/02/24 on database version 579.

Pham number 191333 has 52 members, 9 are drafts.

Phages represented in each track:

- Track 1 : FrayBell_18, LolaVinca_15, InterFolia_18, I3_16, LordLeafolot_18, Bigswole_17, Tainan_18, Nappy_14
- Track 2 : Sauce_15
- Track 3 : Iota_11
- Track 4 : Sebata_15, LinStu_15
- Track 5 : MoMoMixon_15, Delylah_12, Caravan_12, Tyke_15, Pio_16, Bxz1_15, Mangeria_16, Shelob_13, Spud_16, Naval22_15, Nidhogg_15, ScottMcG_12, ErnieJ_12
- Track 6 : BeanWater_10, CharlieB_10, Halldule_11, DTDevon_14, Koguma_11, Phox_11, Shaqnato_11, FoxtrotP1_12, BadAgartude_11, LRRHood_11
- Track 7 : Stubby_10
- Track 8 : Colt_11
- Track 9 : Blubba_11, Cane17_11
- Track 10 : JayJay_14, Specks_16
- Track 11 : BigCity_17, Grasshills_17, EggyFarm_17
- Track 12 : EmToTheThree_13
- Track 13 : HyRo_8
- Track 14 : QBert_11
- Track 15 : Tonenili_15
- Track 16 : Dandelion_18
- Track 17 : Cali_11
- Track 18 : NuevoMundo_17
- Track 19 : JigglyPuff_14

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

The start number called the most often in the published annotations is 8, it was called in 25 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bigswole_17, Blubba_11, Bxz1_15, Cane17_11, Caravan_12, Colt_11, Dandelion_18, Delylah_12, EmToTheThree_13, ErnieJ_12, FrayBell_18, I3_16, InterFolia_18, LolaVinca_15, LordLeafolot_18, Mangeria_16, MoMoMixon_15, Nappy_14, Naval22_15, Nidhogg_15, NuevoMundo_17, Pio_16, ScottMcG_12,

Shelob_13, Spud_16, Stubby_10, Tainan_18, Tyke_15,

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

-

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

- BadAgartude_11, BeanWater_10, BigCity_17, Cali_11, CharlieB_10, DTDevon_14, EggyFarm_17, FoxtrotP1_12, Grasshills_17, Halldule_11, HyRo_8, Iota_11, JayJay_14, JigglyPuff_14, Koguma_11, LRRHood_11, LinStu_15, Phox_11, QBert_11, Sauce_15, Sebata_15, Shaqnato_11, Specks_16, Tonenili_15,

Summary by start number:

Start 3:

- Found in 8 of 52 (15.4%) of genes in pham
- Manual Annotations of this start: 3 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigCity_17 (C1), EggyFarm_17 (C1), Grasshills_17 (C1), JayJay_14 (C1), JigglyPuff_14 (C1), LinStu_15 (C1), Sebata_15 (C1), Specks_16 (C1),

Start 4:

- Found in 1 of 52 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cali_11 (C1),

Start 5:

- Found in 14 of 52 (26.9%) of genes in pham
- Manual Annotations of this start: 12 of 43
- Called 92.9% of time when present
- Phage (with cluster) where this start called: BadAgartude_11 (C1), BeanWater_10 (C1), CharlieB_10 (C1), DTDevon_14 (C1), FoxtrotP1_12 (C1), Halldule_11 (C1), HyRo_8 (C1), Koguma_11 (C1), LRRHood_11 (C1), Phox_11 (C1), QBert_11 (C1), Sauce_15 (C1), Shaqnato_11 (C1),

Start 7:

- Found in 1 of 52 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Iota_11 (C1),

Start 8:

- Found in 28 of 52 (53.8%) of genes in pham
- Manual Annotations of this start: 25 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bigswole_17 (C1), Blubba_11 (C1), Bxz1_15 (C1), Cane17_11 (C1), Caravan_12 (C1), Colt_11 (C1), Dandelion_18 (C1), Delylah_12 (C1), EmToTheThree_13 (C1), ErnieJ_12 (C1), FrayBell_18 (C1), I3_16 (C1), InterFolia_18 (C1), LolaVinca_15 (C1), LordLeafolot_18 (C1), Mangeria_16 (C1), MoMoMixon_15 (C1), Nappy_14 (C1), Naval22_15 (C1), Nidhogg_15 (C1), NuevoMundo_17 (C1), Pio_16 (C1), ScottMcG_12 (C1), Shelob_13 (C1), Spud_16 (C1), Stubby_10 (C1), Tainan_18 (C1), Tyke_15 (C1),

Start 9:

- Found in 1 of 52 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tonenili_15 (C1),

Summary by clusters:

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:

- Start number 3 was manually annotated 3 times for cluster C1.
- Start number 4 was manually annotated 1 time for cluster C1.
- Start number 5 was manually annotated 12 times for cluster C1.
- Start number 7 was manually annotated 1 time for cluster C1.
- Start number 8 was manually annotated 25 times for cluster C1.
- Start number 9 was manually annotated 1 time for cluster C1.

Gene Information:

Gene: BadAgartude_11 Start: 3618, Stop: 4166, Start Num: 5

Candidate Starts for BadAgartude_11:

(Start: 5 @3618 has 12 MA's), (11, 3672), (12, 3741), (14, 3786), (19, 3951), (22, 4038), (23, 4047),

Gene: BeanWater_10 Start: 4425, Stop: 4973, Start Num: 5

Candidate Starts for BeanWater_10:

(Start: 5 @4425 has 12 MA's), (11, 4479), (12, 4548), (14, 4593), (19, 4758), (22, 4845), (23, 4854),

Gene: BigCity_17 Start: 6116, Stop: 6589, Start Num: 3

Candidate Starts for BigCity_17:

(1, 6077), (Start: 3 @6116 has 3 MA's), (6, 6134), (10, 6179), (11, 6182), (13, 6269), (14, 6296), (16, 6437), (17, 6503), (18, 6509),

Gene: Bigswole_17 Start: 5339, Stop: 6019, Start Num: 8

Candidate Starts for Bigswole_17:

(2, 5294), (Start: 8 @5339 has 25 MA's), (10, 5381), (11, 5384), (13, 5471), (14, 5498), (16, 5639), (17, 5705), (19, 5771), (22, 5858), (23, 5867),

Gene: Blubba_11 Start: 4390, Stop: 4998, Start Num: 8

Candidate Starts for Blubba_11:

(2, 4345), (Start: 8 @4390 has 25 MA's), (10, 4432), (11, 4435), (14, 4549), (15, 4666), (16, 4690), (17, 4756), (19, 4822), (22, 4909), (23, 4918),

Gene: Bxz1_15 Start: 4799, Stop: 5407, Start Num: 8

Candidate Starts for Bxz1_15:

(2, 4754), (Start: 8 @4799 has 25 MA's), (10, 4841), (11, 4844), (13, 4931), (14, 4958), (16, 5099), (17, 5165), (19, 5231), (23, 5327),

Gene: Cali_11 Start: 4579, Stop: 5130, Start Num: 4

Candidate Starts for Cali_11:

(Start: 4 @4579 has 1 MA's), (Start: 5 @4582 has 12 MA's), (11, 4636), (12, 4705), (14, 4750), (19, 4915), (22, 5002), (23, 5011),

Gene: Cane17_11 Start: 4390, Stop: 4998, Start Num: 8

Candidate Starts for Cane17_11:

(2, 4345), (Start: 8 @4390 has 25 MA's), (10, 4432), (11, 4435), (14, 4549), (15, 4666), (16, 4690), (17, 4756), (19, 4822), (22, 4909), (23, 4918),

Gene: Caravan_12 Start: 3547, Stop: 4155, Start Num: 8

Candidate Starts for Caravan_12:

(2, 3502), (Start: 8 @3547 has 25 MA's), (10, 3589), (11, 3592), (13, 3679), (14, 3706), (16, 3847), (17, 3913), (19, 3979), (23, 4075),

Gene: CharlieB_10 Start: 3443, Stop: 3991, Start Num: 5

Candidate Starts for CharlieB_10:

(Start: 5 @3443 has 12 MA's), (11, 3497), (12, 3566), (14, 3611), (19, 3776), (22, 3863), (23, 3872),

Gene: Colt_11 Start: 4396, Stop: 5004, Start Num: 8

Candidate Starts for Colt_11:

(2, 4351), (Start: 8 @4396 has 25 MA's), (10, 4438), (11, 4441), (14, 4555), (16, 4696), (17, 4762), (19, 4828), (22, 4915), (23, 4924),

Gene: DTDevon_14 Start: 4459, Stop: 5028, Start Num: 5

Candidate Starts for DTDevon_14:

(Start: 5 @4459 has 12 MA's), (11, 4513), (12, 4582), (14, 4627), (19, 4792), (22, 4879), (23, 4888),

Gene: Dandelion_18 Start: 5774, Stop: 6466, Start Num: 8

Candidate Starts for Dandelion_18:

(2, 5729), (Start: 8 @5774 has 25 MA's), (11, 5819), (13, 5906), (14, 5933), (16, 6074), (17, 6140), (18, 6146), (24, 6227), (25, 6242), (27, 6335), (28, 6407),

Gene: Delylah_12 Start: 3547, Stop: 4155, Start Num: 8

Candidate Starts for Delylah_12:

(2, 3502), (Start: 8 @3547 has 25 MA's), (10, 3589), (11, 3592), (13, 3679), (14, 3706), (16, 3847), (17, 3913), (19, 3979), (23, 4075),

Gene: EggyFarm_17 Start: 6116, Stop: 6589, Start Num: 3

Candidate Starts for EggyFarm_17:

(1, 6077), (Start: 3 @6116 has 3 MA's), (6, 6134), (10, 6179), (11, 6182), (13, 6269), (14, 6296), (16, 6437), (17, 6503), (18, 6509),

Gene: EmToTheThree_13 Start: 4694, Stop: 5542, Start Num: 8

Candidate Starts for EmToTheThree_13:

(2, 4649), (Start: 8 @4694 has 25 MA's), (10, 4736), (11, 4739), (13, 4826), (14, 4853), (16, 4994), (17, 5060), (19, 5126), (21, 5222), (24, 5303), (25, 5318), (26, 5393), (27, 5411), (28, 5483),

Gene: ErnieJ_12 Start: 3611, Stop: 4219, Start Num: 8

Candidate Starts for ErnieJ_12:

(2, 3566), (Start: 8 @3611 has 25 MA's), (10, 3653), (11, 3656), (13, 3743), (14, 3770), (16, 3911), (17, 3977), (19, 4043), (23, 4139),

Gene: FoxtrotP1_12 Start: 4489, Stop: 5037, Start Num: 5

Candidate Starts for FoxtrotP1_12:

(Start: 5 @4489 has 12 MA's), (11, 4543), (12, 4612), (14, 4657), (19, 4822), (22, 4909), (23, 4918),

Gene: FrayBell_18 Start: 5596, Stop: 6276, Start Num: 8

Candidate Starts for FrayBell_18:

(2, 5551), (Start: 8 @5596 has 25 MA's), (10, 5638), (11, 5641), (13, 5728), (14, 5755), (16, 5896), (17, 5962), (19, 6028), (22, 6115), (23, 6124),

Gene: Grasshills_17 Start: 6116, Stop: 6589, Start Num: 3

Candidate Starts for Grasshills_17:

(1, 6077), (Start: 3 @6116 has 3 MA's), (6, 6134), (10, 6179), (11, 6182), (13, 6269), (14, 6296), (16, 6437), (17, 6503), (18, 6509),

Gene: Halldule_11 Start: 3597, Stop: 4145, Start Num: 5

Candidate Starts for Halldule_11:

(Start: 5 @3597 has 12 MA's), (11, 3651), (12, 3720), (14, 3765), (19, 3930), (22, 4017), (23, 4026),

Gene: HyRo_8 Start: 3742, Stop: 4320, Start Num: 5

Candidate Starts for HyRo_8:

(Start: 5 @3742 has 12 MA's), (11, 3796), (12, 3865), (14, 3910), (17, 4039), (19, 4105), (22, 4192), (23, 4201),

Gene: I3_16 Start: 5476, Stop: 6084, Start Num: 8

Candidate Starts for I3_16:

(2, 5431), (Start: 8 @5476 has 25 MA's), (10, 5518), (11, 5521), (13, 5608), (14, 5635), (16, 5776), (17, 5842), (19, 5908), (22, 5995), (23, 6004),

Gene: InterFolia_18 Start: 5593, Stop: 6273, Start Num: 8

Candidate Starts for InterFolia_18:

(2, 5548), (Start: 8 @5593 has 25 MA's), (10, 5635), (11, 5638), (13, 5725), (14, 5752), (16, 5893), (17, 5959), (19, 6025), (22, 6112), (23, 6121),

Gene: Iota_11 Start: 4332, Stop: 4943, Start Num: 7

Candidate Starts for Iota_11:

(Start: 7 @4332 has 1 MA's), (10, 4377), (11, 4380), (13, 4467), (14, 4494), (16, 4635), (17, 4701), (19, 4767), (23, 4863),

Gene: JayJay_14 Start: 4243, Stop: 4944, Start Num: 3

Candidate Starts for JayJay_14:

(Start: 3 @4243 has 3 MA's), (6, 4261), (10, 4306), (11, 4309), (13, 4396), (14, 4423), (16, 4564), (17, 4630), (19, 4696), (20, 4783), (21, 4792),

Gene: JigglyPuff_14 Start: 4228, Stop: 5028, Start Num: 3

Candidate Starts for JigglyPuff_14:

(Start: 3 @4228 has 3 MA's), (6, 4246), (10, 4291), (11, 4294), (13, 4381), (14, 4408), (16, 4549), (17, 4615), (19, 4681), (24, 4789), (25, 4804), (27, 4897), (28, 4969),

Gene: Koguma_11 Start: 3597, Stop: 4145, Start Num: 5

Candidate Starts for Koguma_11:

(Start: 5 @3597 has 12 MA's), (11, 3651), (12, 3720), (14, 3765), (19, 3930), (22, 4017), (23, 4026),

Gene: LRRHood_11 Start: 4582, Stop: 5130, Start Num: 5

Candidate Starts for LRRHood_11:

(Start: 5 @4582 has 12 MA's), (11, 4636), (12, 4705), (14, 4750), (19, 4915), (22, 5002), (23, 5011),

Gene: LinStu_15 Start: 5242, Stop: 5715, Start Num: 3

Candidate Starts for LinStu_15:

(Start: 3 @5242 has 3 MA's), (6, 5260), (10, 5305), (11, 5308), (13, 5395), (14, 5422), (16, 5563), (17, 5629), (18, 5635),

Gene: LolaVinca_15 Start: 4699, Stop: 5379, Start Num: 8

Candidate Starts for LolaVinca_15:

(2, 4654), (Start: 8 @4699 has 25 MA's), (10, 4741), (11, 4744), (13, 4831), (14, 4858), (16, 4999), (17, 5065), (19, 5131), (22, 5218), (23, 5227),

Gene: LordLeafolot_18 Start: 5595, Stop: 6275, Start Num: 8

Candidate Starts for LordLeafolot_18:

(2, 5550), (Start: 8 @5595 has 25 MA's), (10, 5637), (11, 5640), (13, 5727), (14, 5754), (16, 5895), (17, 5961), (19, 6027), (22, 6114), (23, 6123),

Gene: Mangeria_16 Start: 5186, Stop: 5794, Start Num: 8

Candidate Starts for Mangeria_16:

(2, 5141), (Start: 8 @5186 has 25 MA's), (10, 5228), (11, 5231), (13, 5318), (14, 5345), (16, 5486), (17, 5552), (19, 5618), (23, 5714),

Gene: MoMoMixon_15 Start: 5028, Stop: 5636, Start Num: 8

Candidate Starts for MoMoMixon_15:

(2, 4983), (Start: 8 @5028 has 25 MA's), (10, 5070), (11, 5073), (13, 5160), (14, 5187), (16, 5328), (17, 5394), (19, 5460), (23, 5556),

Gene: Nappy_14 Start: 4422, Stop: 5102, Start Num: 8

Candidate Starts for Nappy_14:

(2, 4377), (Start: 8 @4422 has 25 MA's), (10, 4464), (11, 4467), (13, 4554), (14, 4581), (16, 4722), (17, 4788), (19, 4854), (22, 4941), (23, 4950),

Gene: Naval22_15 Start: 5028, Stop: 5636, Start Num: 8

Candidate Starts for Naval22_15:

(2, 4983), (Start: 8 @5028 has 25 MA's), (10, 5070), (11, 5073), (13, 5160), (14, 5187), (16, 5328), (17, 5394), (19, 5460), (23, 5556),

Gene: Nidhogg_15 Start: 5028, Stop: 5636, Start Num: 8

Candidate Starts for Nidhogg_15:

(2, 4983), (Start: 8 @5028 has 25 MA's), (10, 5070), (11, 5073), (13, 5160), (14, 5187), (16, 5328), (17, 5394), (19, 5460), (23, 5556),

Gene: NuevoMundo_17 Start: 5451, Stop: 6299, Start Num: 8

Candidate Starts for NuevoMundo_17:

(2, 5406), (Start: 8 @5451 has 25 MA's), (10, 5493), (11, 5496), (13, 5583), (14, 5610), (16, 5751), (17, 5817), (19, 5883), (20, 5970), (21, 5979), (24, 6060), (25, 6075), (26, 6150), (27, 6168), (28, 6240),

Gene: Phox_11 Start: 4579, Stop: 5127, Start Num: 5

Candidate Starts for Phox_11:

(Start: 5 @4579 has 12 MA's), (11, 4633), (12, 4702), (14, 4747), (19, 4912), (22, 4999), (23, 5008),

Gene: Pio_16 Start: 5188, Stop: 5796, Start Num: 8

Candidate Starts for Pio_16:

(2, 5143), (Start: 8 @5188 has 25 MA's), (10, 5230), (11, 5233), (13, 5320), (14, 5347), (16, 5488), (17, 5554), (19, 5620), (23, 5716),

Gene: QBert_11 Start: 4454, Stop: 5143, Start Num: 5

Candidate Starts for QBert_11:

(Start: 5 @4454 has 12 MA's), (11, 4508), (13, 4595), (14, 4622), (16, 4763), (17, 4829), (19, 4895), (22, 4982), (23, 4991),

Gene: Sauce_15 Start: 4833, Stop: 5342, Start Num: 5

Candidate Starts for Sauce_15:

(Start: 5 @4833 has 12 MA's), (11, 4887), (12, 4956), (14, 5001), (19, 5166), (23, 5262),

Gene: ScottMcG_12 Start: 3987, Stop: 4634, Start Num: 8

Candidate Starts for ScottMcG_12:

(2, 3942), (Start: 8 @3987 has 25 MA's), (10, 4029), (11, 4032), (13, 4119), (14, 4146), (16, 4287), (17, 4353), (19, 4419), (23, 4515),

Gene: Sebata_15 Start: 5242, Stop: 5715, Start Num: 3

Candidate Starts for Sebata_15:

(Start: 3 @5242 has 3 MA's), (6, 5260), (10, 5305), (11, 5308), (13, 5395), (14, 5422), (16, 5563), (17, 5629), (18, 5635),

Gene: Shaqnato_11 Start: 3597, Stop: 4145, Start Num: 5

Candidate Starts for Shaqnato_11:

(Start: 5 @3597 has 12 MA's), (11, 3651), (12, 3720), (14, 3765), (19, 3930), (22, 4017), (23, 4026),

Gene: Shelob_13 Start: 4694, Stop: 5302, Start Num: 8

Candidate Starts for Shelob_13:

(2, 4649), (Start: 8 @4694 has 25 MA's), (10, 4736), (11, 4739), (13, 4826), (14, 4853), (16, 4994), (17, 5060), (19, 5126), (23, 5222),

Gene: Specks_16 Start: 4755, Stop: 5456, Start Num: 3

Candidate Starts for Specks_16:

(Start: 3 @4755 has 3 MA's), (6, 4773), (10, 4818), (11, 4821), (13, 4908), (14, 4935), (16, 5076), (17, 5142), (19, 5208), (20, 5295), (21, 5304),

Gene: Spud_16 Start: 5188, Stop: 5796, Start Num: 8

Candidate Starts for Spud_16:

(2, 5143), (Start: 8 @5188 has 25 MA's), (10, 5230), (11, 5233), (13, 5320), (14, 5347), (16, 5488), (17, 5554), (19, 5620), (23, 5716),

Gene: Stubby_10 Start: 4034, Stop: 4534, Start Num: 8

Candidate Starts for Stubby_10:

(2, 3989), (Start: 8 @4034 has 25 MA's), (11, 4079), (12, 4148), (14, 4193), (19, 4358), (23, 4454),

Gene: Tainan_18 Start: 5595, Stop: 6275, Start Num: 8

Candidate Starts for Tainan_18:

(2, 5550), (Start: 8 @5595 has 25 MA's), (10, 5637), (11, 5640), (13, 5727), (14, 5754), (16, 5895), (17, 5961), (19, 6027), (22, 6114), (23, 6123),

Gene: Tonenili_15 Start: 4513, Stop: 4962, Start Num: 9

Candidate Starts for Tonenili_15:

(Start: 9 @4513 has 1 MA's), (10, 4552), (11, 4555), (13, 4642), (14, 4669), (16, 4810), (17, 4876), (18, 4882),

Gene: Tyke_15 Start: 4664, Stop: 5272, Start Num: 8

Candidate Starts for Tyke_15:

(2, 4619), (Start: 8 @4664 has 25 MA's), (10, 4706), (11, 4709), (13, 4796), (14, 4823), (16, 4964), (17, 5030), (19, 5096), (23, 5192),