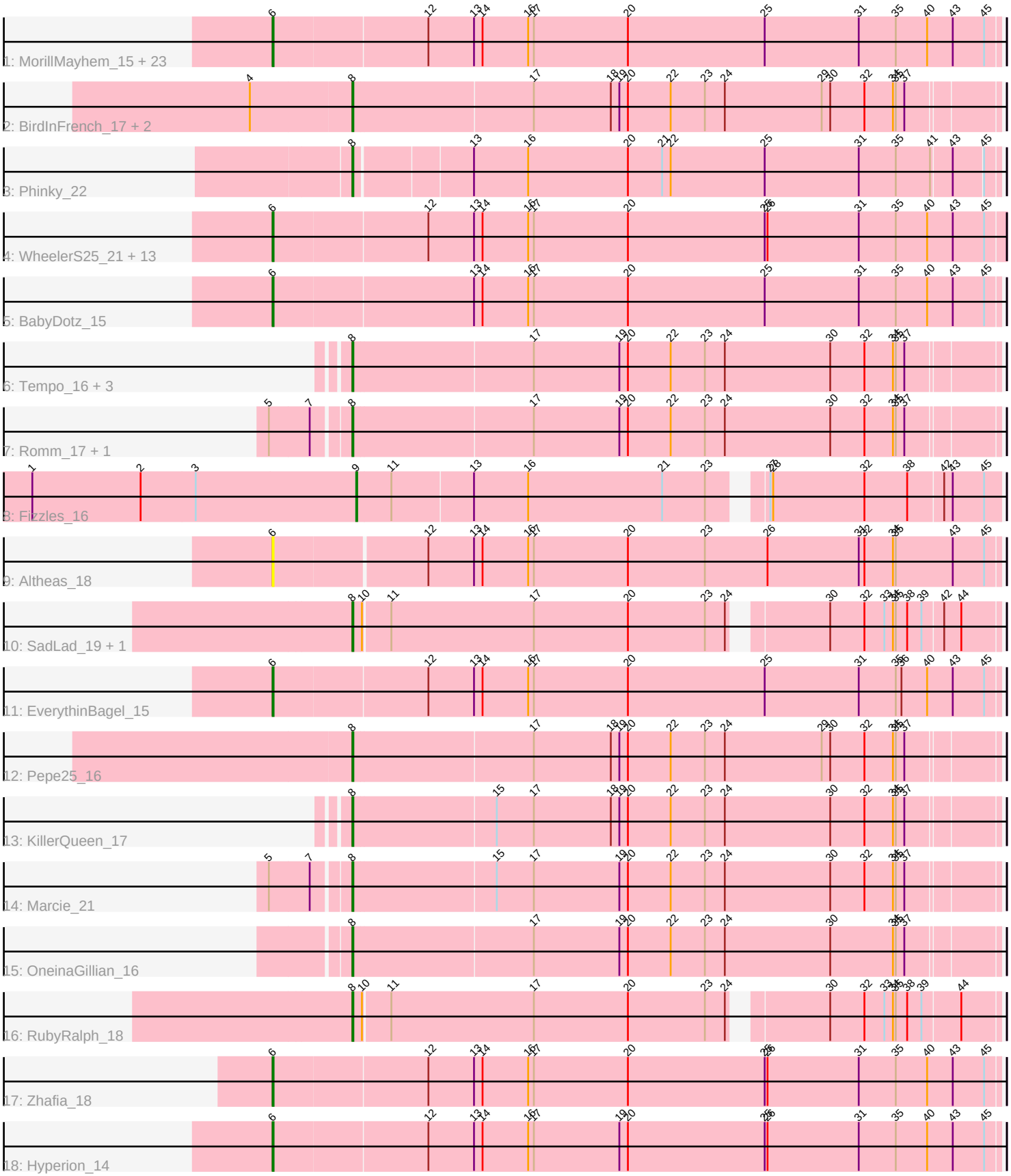
Pham 345759


1: MorillMayhem_15 + 23
2: BirdInFrench_17 + 2
3: Phinky_22
4: WheelerS25_21 + 13
5: BabyDotz_15
6: Tempo_16 + 3
7: Romm_17 + 1
8: Fizzles_16
9: Altheas_18
10: SadLad_19 + 1
11: EverythinBagel_15
12: Pepe25_16
13: KillerQueen_17
14: Marcie_21
15: OneinaGillian_16
16: RubyRalph_18
17: Zhafia_18
18: Hyperion_14

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 345759 Report

This analysis was run 11/14/26 on database version 672.

Pham number 345759 has 61 members, 5 are drafts.

Phages represented in each track:
• Track 1 : MorillMayhem_15, DonaldDuck_15, BaconCheese_18, Mentos_19, Quammi_14, Viceroy_15, Squash_18, Zagie_16, Lonelysoil_15, Rudy_14, Casend_17, Wheelie_15, Wayne3_17, Statler_16, Blab_14, Llemily_15, Jehoshaphat_18, Gazebo_15, Mila11_17, Teehee_18, Rowlf_12, StrawberryJamm_18, Sillytadpoles_15, Nike_17
• Track 2 : BirdInFrench_17, Spiderpig_17, Wilca_17
• Track 3 : Phinky_22
• Track 4 : WheelerS25_21, Phabia_16, SallyK_17, Tissue_15, LilCahh_15, Namago_16, SlySloth_19, ZestyBestie_15, Mashley_13, FrankDeliGuy_14, Kyva_18, Grassboy_17, AluminumJesus_14, Judebell_18
• Track 5 : BabyDotz_15
• Track 6 : Tempo_16, Fregley_17, Kelcole_15, CandC_15
• Track 7 : Romm_17, RobinRose_17
• Track 8 : Fizzles_16
• Track 9 : Altheas_18
• Track 10 : SadLad_19, Fransoyer_18
• Track 11 : EverythinBagel_15
• Track 12 : Pepe25_16
• Track 13 : KillerQueen_17
• Track 14 : Marcie_21
• Track 15 : OneinaGillian_16
• Track 16 : RubyRalph_18
• Track 17 : Zhafia_18
• Track 18 : Hyperion_14

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 40 of the 56 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Altheas_18, AluminumJesus_14, BabyDotz_15, BaconCheese_18, Blab_14, Casend_17, DonaldDuck_15, EverythinBagel_15, FrankDeliGuy_14, Gazebo_15, Grassboy_17, Hyperion_14, Jehoshaphat_18, Judebell_18, Kyva_18, LilCahh_15,

Llemily_15, Lonelysoil_15, Mashley_13, Mentos_19, Mila11_17, MorillMayhem_15, Namago_16, Nike_17, Phabia_16, Quammi_14, Rowlf_12, Rudy_14, SallyK_17, Sillytadpoles_15, SlySloth_19, Squash_18, Statler_16, StrawberryJamm_18, Teehee_18, Tissue_15, Viceroy_15, Wayne3_17, WheelerS25_21, Wheelie_15, Zagie_16, ZestyBestie_15, Zhafia_18,

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

Genes that do not have the "Most Annotated" start:
• BirdInFrench_17, CandC_15, Fizzles_16, Fransoyer_18, Fregley_17, Kelcole_15, KillerQueen_17, Marcie_21, OneinaGillian_16, Pepe25_16, Phinky_22, RobinRose_17, Romm_17, RubyRalph_18, SadLad_19, Spiderpig_17, Tempo_16, Wilca_17,

Summary by start number:

Start 6:
• Found in 43 of 61 (70.5%) of genes in pham
• Manual Annotations of this start: 40 of 56
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altheas_18 (EG), AluminumJesus_14 (EG), BabyDotz_15 (EG), BaconCheese_18 (EG), Blab_14 (EG), Casend_17 (EG), DonaldDuck_15 (EG), EverythinBagel_15 (EG), FrankDeliGuy_14 (EG), Gazebo_15 (EG), Grassboy_17 (EG), Hyperion_14 (EG), Jehoshaphat_18 (EG), Judebell_18 (EG), Kyva_18 (EG), LilCahh_15 (EG), Llemily_15 (EG), Lonelysoil_15 (EG), Mashley_13 (EG), Mentos_19 (EG), Mila11_17 (EG), MorillMayhem_15 (EG), Namago_16 (EG), Nike_17 (EG), Phabia_16 (EG), Quammi_14 (EG), Rowlf_12 (EG), Rudy_14 (EG), SallyK_17 (EG), Sillytadpoles_15 (EG), SlySloth_19 (EG), Squash_18 (EG), Statler_16 (EG), StrawberryJamm_18 (EG), Teehee_18 (EG), Tissue_15 (EG), Viceroy_15 (EG), Wayne3_17 (EG), WheelerS25_21 (EG), Wheelie_15 (EG), Zagie_16 (EG), ZestyBestie_15 (EG), Zhafia_18 (EG),

Start 8:
• Found in 17 of 61 (27.9%) of genes in pham
• Manual Annotations of this start: 15 of 56
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BirdInFrench_17 (EG), CandC_15 (EG), Fransoyer_18 (EG), Fregley_17 (EG), Kelcole_15 (EG), KillerQueen_17 (EG), Marcie_21 (EG), OneinaGillian_16 (EG), Pepe25_16 (EG), Phinky_22 (EG), RobinRose_17 (EG), Romm_17 (EG), RubyRalph_18 (EG), SadLad_19 (EG), Spiderpig_17 (EG), Tempo_16 (EG), Wilca_17 (EG),

Start 9:
• Found in 1 of 61 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 56
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fizzles_16 (EG),

Summary by clusters:

There is one cluster represented in this pham: EG

Info for manual annotations of cluster EG:
•Start number 6 was manually annotated 40 times for cluster EG.
•Start number 8 was manually annotated 15 times for cluster EG.
•Start number 9 was manually annotated 1 time for cluster EG.

Gene Information:

Gene: Altheas_18 Start: 5581, Stop: 6336, Start Num: 6
Candidate Starts for Altheas_18:
(Start: 6 @5581 has 40 MA's), (12, 5737), (13, 5785), (14, 5794), (16, 5842), (17, 5848), (20, 5947), (23, 6028), (26, 6094), (31, 6190), (32, 6196), (34, 6226), (35, 6229), (43, 6289), (45, 6322),

Gene: AluminumJesus_14 Start: 4781, Stop: 5539, Start Num: 6
Candidate Starts for AluminumJesus_14:
(Start: 6 @4781 has 40 MA's), (12, 4940), (13, 4988), (14, 4997), (16, 5045), (17, 5051), (20, 5150), (25, 5294), (26, 5297), (31, 5393), (35, 5432), (40, 5465), (43, 5492), (45, 5525),

Gene: BabyDotz_15 Start: 5238, Stop: 5996, Start Num: 6
Candidate Starts for BabyDotz_15:
(Start: 6 @5238 has 40 MA's), (13, 5445), (14, 5454), (16, 5502), (17, 5508), (20, 5607), (25, 5751), (31, 5850), (35, 5889), (40, 5922), (43, 5949), (45, 5982),

Gene: BaconCheese_18 Start: 5935, Stop: 6693, Start Num: 6
Candidate Starts for BaconCheese_18:
(Start: 6 @5935 has 40 MA's), (12, 6094), (13, 6142), (14, 6151), (16, 6199), (17, 6205), (20, 6304), (25, 6448), (31, 6547), (35, 6586), (40, 6619), (43, 6646), (45, 6679),

Gene: BirdInFrench_17 Start: 4590, Stop: 5255, Start Num: 8
Candidate Starts for BirdInFrench_17:
(4, 4485), (Start: 8 @4590 has 15 MA's), (17, 4776), (18, 4857), (19, 4866), (20, 4875), (22, 4920), (23, 4956), (24, 4977), (29, 5079), (30, 5088), (32, 5124), (34, 5154), (35, 5157), (37, 5166),

Gene: Blab_14 Start: 4563, Stop: 5321, Start Num: 6
Candidate Starts for Blab_14:
(Start: 6 @4563 has 40 MA's), (12, 4722), (13, 4770), (14, 4779), (16, 4827), (17, 4833), (20, 4932), (25, 5076), (31, 5175), (35, 5214), (40, 5247), (43, 5274), (45, 5307),

Gene: CandC_15 Start: 4118, Stop: 4783, Start Num: 8
Candidate Starts for CandC_15:
(Start: 8 @4118 has 15 MA's), (17, 4304), (19, 4394), (20, 4403), (22, 4448), (23, 4484), (24, 4505), (30, 4616), (32, 4652), (34, 4682), (35, 4685), (37, 4694),

Gene: Casend_17 Start: 5535, Stop: 6293, Start Num: 6
Candidate Starts for Casend_17:
(Start: 6 @5535 has 40 MA's), (12, 5694), (13, 5742), (14, 5751), (16, 5799), (17, 5805), (20, 5904), (25, 6048), (31, 6147), (35, 6186), (40, 6219), (43, 6246), (45, 6279),

Gene: DonaldDuck_15 Start: 4881, Stop: 5639, Start Num: 6
Candidate Starts for DonaldDuck_15:
(Start: 6 @4881 has 40 MA's), (12, 5040), (13, 5088), (14, 5097), (16, 5145), (17, 5151), (20, 5250), (25, 5394), (31, 5493), (35, 5532), (40, 5565), (43, 5592), (45, 5625),

Gene: EverythinBagel_15 Start: 5309, Stop: 6067, Start Num: 6
Candidate Starts for EverythinBagel_15:
(Start: 6 @5309 has 40 MA's), (12, 5468), (13, 5516), (14, 5525), (16, 5573), (17, 5579), (20, 5678), (25, 5822), (31, 5921), (35, 5960), (36, 5966), (40, 5993), (43, 6020), (45, 6053),

Gene: Fizzles_16 Start: 4953, Stop: 5597, Start Num: 9
Candidate Starts for Fizzles_16:
(1, 4614), (2, 4728), (3, 4785), (Start: 9 @4953 has 1 MA's), (11, 4989), (13, 5073), (16, 5130), (21, 5271), (23, 5316), (27, 5358), (28, 5361), (32, 5457), (38, 5502), (42, 5538), (43, 5547), (45, 5580),

Gene: FrankDeliGuy_14 Start: 4767, Stop: 5525, Start Num: 6
Candidate Starts for FrankDeliGuy_14:
(Start: 6 @4767 has 40 MA's), (12, 4926), (13, 4974), (14, 4983), (16, 5031), (17, 5037), (20, 5136), (25, 5280), (26, 5283), (31, 5379), (35, 5418), (40, 5451), (43, 5478), (45, 5511),

Gene: Fransoyer_18 Start: 5312, Stop: 5956, Start Num: 8
Candidate Starts for Fransoyer_18:
(Start: 8 @5312 has 15 MA's), (10, 5321), (11, 5348), (17, 5498), (20, 5597), (23, 5678), (24, 5699), (30, 5783), (32, 5819), (33, 5840), (34, 5849), (35, 5852), (38, 5864), (39, 5879), (42, 5900), (44, 5918),

Gene: Fregley_17 Start: 4656, Stop: 5321, Start Num: 8
Candidate Starts for Fregley_17:
(Start: 8 @4656 has 15 MA's), (17, 4842), (19, 4932), (20, 4941), (22, 4986), (23, 5022), (24, 5043), (30, 5154), (32, 5190), (34, 5220), (35, 5223), (37, 5232),

Gene: Gazebo_15 Start: 5129, Stop: 5887, Start Num: 6
Candidate Starts for Gazebo_15:
(Start: 6 @5129 has 40 MA's), (12, 5288), (13, 5336), (14, 5345), (16, 5393), (17, 5399), (20, 5498), (25, 5642), (31, 5741), (35, 5780), (40, 5813), (43, 5840), (45, 5873),

Gene: Grassboy_17 Start: 5569, Stop: 6327, Start Num: 6
Candidate Starts for Grassboy_17:
(Start: 6 @5569 has 40 MA's), (12, 5728), (13, 5776), (14, 5785), (16, 5833), (17, 5839), (20, 5938), (25, 6082), (26, 6085), (31, 6181), (35, 6220), (40, 6253), (43, 6280), (45, 6313),

Gene: Hyperion_14 Start: 4826, Stop: 5584, Start Num: 6
Candidate Starts for Hyperion_14:
(Start: 6 @4826 has 40 MA's), (12, 4985), (13, 5033), (14, 5042), (16, 5090), (17, 5096), (19, 5186), (20, 5195), (25, 5339), (26, 5342), (31, 5438), (35, 5477), (40, 5510), (43, 5537), (45, 5570),

Gene: Jehoshaphat_18 Start: 5827, Stop: 6585, Start Num: 6
Candidate Starts for Jehoshaphat_18:
(Start: 6 @5827 has 40 MA's), (12, 5986), (13, 6034), (14, 6043), (16, 6091), (17, 6097), (20, 6196), (25, 6340), (31, 6439), (35, 6478), (40, 6511), (43, 6538), (45, 6571),

Gene: Judebell_18 Start: 5353, Stop: 6111, Start Num: 6
Candidate Starts for Judebell_18:
(Start: 6 @5353 has 40 MA's), (12, 5512), (13, 5560), (14, 5569), (16, 5617), (17, 5623), (20, 5722), (25, 5866), (26, 5869), (31, 5965), (35, 6004), (40, 6037), (43, 6064), (45, 6097),

Gene: Kelcole_15 Start: 4509, Stop: 5174, Start Num: 8
Candidate Starts for Kelcole_15:

(Start: 8 @4509 has 15 MA's), (17, 4695), (19, 4785), (20, 4794), (22, 4839), (23, 4875), (24, 4896), (30, 5007), (32, 5043), (34, 5073), (35, 5076), (37, 5085),

Gene: KillerQueen_17 Start: 4325, Stop: 4990, Start Num: 8
Candidate Starts for KillerQueen_17:
(Start: 8 @4325 has 15 MA's), (15, 4472), (17, 4511), (18, 4592), (19, 4601), (20, 4610), (22, 4655), (23, 4691), (24, 4712), (30, 4823), (32, 4859), (34, 4889), (35, 4892), (37, 4901),

Gene: Kyva_18 Start: 5604, Stop: 6362, Start Num: 6
Candidate Starts for Kyva_18:
(Start: 6 @5604 has 40 MA's), (12, 5763), (13, 5811), (14, 5820), (16, 5868), (17, 5874), (20, 5973), (25, 6117), (26, 6120), (31, 6216), (35, 6255), (40, 6288), (43, 6315), (45, 6348),

Gene: LilCahh_15 Start: 4937, Stop: 5695, Start Num: 6
Candidate Starts for LilCahh_15:
(Start: 6 @4937 has 40 MA's), (12, 5096), (13, 5144), (14, 5153), (16, 5201), (17, 5207), (20, 5306), (25, 5450), (26, 5453), (31, 5549), (35, 5588), (40, 5621), (43, 5648), (45, 5681),

Gene: Llemily_15 Start: 4603, Stop: 5361, Start Num: 6
Candidate Starts for Llemily_15:
(Start: 6 @4603 has 40 MA's), (12, 4762), (13, 4810), (14, 4819), (16, 4867), (17, 4873), (20, 4972), (25, 5116), (31, 5215), (35, 5254), (40, 5287), (43, 5314), (45, 5347),

Gene: Lonelysoil_15 Start: 4848, Stop: 5606, Start Num: 6
Candidate Starts for Lonelysoil_15:
(Start: 6 @4848 has 40 MA's), (12, 5007), (13, 5055), (14, 5064), (16, 5112), (17, 5118), (20, 5217), (25, 5361), (31, 5460), (35, 5499), (40, 5532), (43, 5559), (45, 5592),

Gene: Marcie_21 Start: 5217, Stop: 5882, Start Num: 8
Candidate Starts for Marcie_21:
(5, 5139), (7, 5181), (Start: 8 @5217 has 15 MA's), (15, 5364), (17, 5403), (19, 5493), (20, 5502), (22, 5547), (23, 5583), (24, 5604), (30, 5715), (32, 5751), (34, 5781), (35, 5784), (37, 5793),

Gene: Mashley_13 Start: 4643, Stop: 5401, Start Num: 6
Candidate Starts for Mashley_13:
(Start: 6 @4643 has 40 MA's), (12, 4802), (13, 4850), (14, 4859), (16, 4907), (17, 4913), (20, 5012), (25, 5156), (26, 5159), (31, 5255), (35, 5294), (40, 5327), (43, 5354), (45, 5387),

Gene: Mentos_19 Start: 6182, Stop: 6940, Start Num: 6
Candidate Starts for Mentos_19:
(Start: 6 @6182 has 40 MA's), (12, 6341), (13, 6389), (14, 6398), (16, 6446), (17, 6452), (20, 6551), (25, 6695), (31, 6794), (35, 6833), (40, 6866), (43, 6893), (45, 6926),

Gene: Mila11_17 Start: 5718, Stop: 6476, Start Num: 6
Candidate Starts for Mila11_17:
(Start: 6 @5718 has 40 MA's), (12, 5877), (13, 5925), (14, 5934), (16, 5982), (17, 5988), (20, 6087), (25, 6231), (31, 6330), (35, 6369), (40, 6402), (43, 6429), (45, 6462),

Gene: MorillMayhem_15 Start: 4651, Stop: 5409, Start Num: 6
Candidate Starts for MorillMayhem_15:
(Start: 6 @4651 has 40 MA's), (12, 4810), (13, 4858), (14, 4867), (16, 4915), (17, 4921), (20, 5020), (25, 5164), (31, 5263), (35, 5302), (40, 5335), (43, 5362), (45, 5395),

Gene: Namago_16 Start: 4660, Stop: 5418, Start Num: 6
Candidate Starts for Namago_16:
(Start: 6 @4660 has 40 MA's), (12, 4819), (13, 4867), (14, 4876), (16, 4924), (17, 4930), (20, 5029), (25, 5173), (26, 5176), (31, 5272), (35, 5311), (40, 5344), (43, 5371), (45, 5404),

Gene: Nike_17 Start: 5551, Stop: 6312, Start Num: 6
Candidate Starts for Nike_17:
(Start: 6 @5551 has 40 MA's), (12, 5713), (13, 5761), (14, 5770), (16, 5818), (17, 5824), (20, 5923), (25, 6067), (31, 6166), (35, 6205), (40, 6238), (43, 6265), (45, 6298),

Gene: OneinaGillian_16 Start: 4191, Stop: 4856, Start Num: 8
Candidate Starts for OneinaGillian_16:
(Start: 8 @4191 has 15 MA's), (17, 4377), (19, 4467), (20, 4476), (22, 4521), (23, 4557), (24, 4578), (30, 4689), (34, 4755), (35, 4758), (37, 4767),

Gene: Pepe25_16 Start: 4590, Stop: 5255, Start Num: 8
Candidate Starts for Pepe25_16:
(Start: 8 @4590 has 15 MA's), (17, 4776), (18, 4857), (19, 4866), (20, 4875), (22, 4920), (23, 4956), (24, 4977), (29, 5079), (30, 5088), (32, 5124), (34, 5154), (35, 5157), (37, 5166),

Gene: Phabia_16 Start: 5018, Stop: 5776, Start Num: 6
Candidate Starts for Phabia_16:
(Start: 6 @5018 has 40 MA's), (12, 5177), (13, 5225), (14, 5234), (16, 5282), (17, 5288), (20, 5387), (25, 5531), (26, 5534), (31, 5630), (35, 5669), (40, 5702), (43, 5729), (45, 5762),

Gene: Phinky_22 Start: 5887, Stop: 6549, Start Num: 8
Candidate Starts for Phinky_22:
(Start: 8 @5887 has 15 MA's), (13, 6004), (16, 6061), (20, 6166), (21, 6202), (22, 6211), (25, 6310), (31, 6409), (35, 6448), (41, 6484), (43, 6505), (45, 6535),

Gene: Quammi_14 Start: 4592, Stop: 5350, Start Num: 6
Candidate Starts for Quammi_14:
(Start: 6 @4592 has 40 MA's), (12, 4751), (13, 4799), (14, 4808), (16, 4856), (17, 4862), (20, 4961), (25, 5105), (31, 5204), (35, 5243), (40, 5276), (43, 5303), (45, 5336),

Gene: RobinRose_17 Start: 4344, Stop: 5009, Start Num: 8
Candidate Starts for RobinRose_17:
(5, 4266), (7, 4308), (Start: 8 @4344 has 15 MA's), (17, 4530), (19, 4620), (20, 4629), (22, 4674), (23, 4710), (24, 4731), (30, 4842), (32, 4878), (34, 4908), (35, 4911), (37, 4920),

Gene: Romm_17 Start: 4344, Stop: 5009, Start Num: 8
Candidate Starts for Romm_17:
(5, 4266), (7, 4308), (Start: 8 @4344 has 15 MA's), (17, 4530), (19, 4620), (20, 4629), (22, 4674), (23, 4710), (24, 4731), (30, 4842), (32, 4878), (34, 4908), (35, 4911), (37, 4920),

Gene: Rowlf_12 Start: 4358, Stop: 5116, Start Num: 6
Candidate Starts for Rowlf_12:
(Start: 6 @4358 has 40 MA's), (12, 4517), (13, 4565), (14, 4574), (16, 4622), (17, 4628), (20, 4727), (25, 4871), (31, 4970), (35, 5009), (40, 5042), (43, 5069), (45, 5102),

Gene: RubyRalph_18 Start: 5246, Stop: 5890, Start Num: 8
Candidate Starts for RubyRalph_18:

(Start: 8 @5246 has 15 MA's), (10, 5255), (11, 5282), (17, 5432), (20, 5531), (23, 5612), (24, 5633), (30, 5717), (32, 5753), (33, 5774), (34, 5783), (35, 5786), (38, 5798), (39, 5813), (44, 5852),

Gene: Rudy_14 Start: 4592, Stop: 5350, Start Num: 6
Candidate Starts for Rudy_14:
(Start: 6 @4592 has 40 MA's), (12, 4751), (13, 4799), (14, 4808), (16, 4856), (17, 4862), (20, 4961), (25, 5105), (31, 5204), (35, 5243), (40, 5276), (43, 5303), (45, 5336),

Gene: SadLad_19 Start: 5703, Stop: 6347, Start Num: 8
Candidate Starts for SadLad_19:
(Start: 8 @5703 has 15 MA's), (10, 5712), (11, 5739), (17, 5889), (20, 5988), (23, 6069), (24, 6090), (30, 6174), (32, 6210), (33, 6231), (34, 6240), (35, 6243), (38, 6255), (39, 6270), (42, 6291), (44, 6309),

Gene: SallyK_17 Start: 5753, Stop: 6511, Start Num: 6
Candidate Starts for SallyK_17:
(Start: 6 @5753 has 40 MA's), (12, 5912), (13, 5960), (14, 5969), (16, 6017), (17, 6023), (20, 6122), (25, 6266), (26, 6269), (31, 6365), (35, 6404), (40, 6437), (43, 6464), (45, 6497),

Gene: Sillytadpoles_15 Start: 4590, Stop: 5348, Start Num: 6
Candidate Starts for Sillytadpoles_15:
(Start: 6 @4590 has 40 MA's), (12, 4749), (13, 4797), (14, 4806), (16, 4854), (17, 4860), (20, 4959), (25, 5103), (31, 5202), (35, 5241), (40, 5274), (43, 5301), (45, 5334),

Gene: SlySloth_19 Start: 5544, Stop: 6302, Start Num: 6
Candidate Starts for SlySloth_19:
(Start: 6 @5544 has 40 MA's), (12, 5703), (13, 5751), (14, 5760), (16, 5808), (17, 5814), (20, 5913), (25, 6057), (26, 6060), (31, 6156), (35, 6195), (40, 6228), (43, 6255), (45, 6288),

Gene: Spiderpig_17 Start: 4590, Stop: 5255, Start Num: 8
Candidate Starts for Spiderpig_17:
(4, 4485), (Start: 8 @4590 has 15 MA's), (17, 4776), (18, 4857), (19, 4866), (20, 4875), (22, 4920), (23, 4956), (24, 4977), (29, 5079), (30, 5088), (32, 5124), (34, 5154), (35, 5157), (37, 5166),

Gene: Squash_18 Start: 5606, Stop: 6367, Start Num: 6
Candidate Starts for Squash_18:
(Start: 6 @5606 has 40 MA's), (12, 5768), (13, 5816), (14, 5825), (16, 5873), (17, 5879), (20, 5978), (25, 6122), (31, 6221), (35, 6260), (40, 6293), (43, 6320), (45, 6353),

Gene: Statler_16 Start: 5126, Stop: 5884, Start Num: 6
Candidate Starts for Statler_16:
(Start: 6 @5126 has 40 MA's), (12, 5285), (13, 5333), (14, 5342), (16, 5390), (17, 5396), (20, 5495), (25, 5639), (31, 5738), (35, 5777), (40, 5810), (43, 5837), (45, 5870),

Gene: StrawberryJamm_18 Start: 4892, Stop: 5650, Start Num: 6
Candidate Starts for StrawberryJamm_18:
(Start: 6 @4892 has 40 MA's), (12, 5051), (13, 5099), (14, 5108), (16, 5156), (17, 5162), (20, 5261), (25, 5405), (31, 5504), (35, 5543), (40, 5576), (43, 5603), (45, 5636),

Gene: Teehee_18 Start: 5827, Stop: 6585, Start Num: 6
Candidate Starts for Teehee_18:
(Start: 6 @5827 has 40 MA's), (12, 5986), (13, 6034), (14, 6043), (16, 6091), (17, 6097), (20, 6196), (25, 6340), (31, 6439), (35, 6478), (40, 6511), (43, 6538), (45, 6571),

Gene: Tempo_16 Start: 4536, Stop: 5201, Start Num: 8
Candidate Starts for Tempo_16:
(Start: 8 @4536 has 15 MA's), (17, 4722), (19, 4812), (20, 4821), (22, 4866), (23, 4902), (24, 4923), (30, 5034), (32, 5070), (34, 5100), (35, 5103), (37, 5112),

Gene: Tissue_15 Start: 4958, Stop: 5716, Start Num: 6
Candidate Starts for Tissue_15:
(Start: 6 @4958 has 40 MA's), (12, 5117), (13, 5165), (14, 5174), (16, 5222), (17, 5228), (20, 5327), (25, 5471), (26, 5474), (31, 5570), (35, 5609), (40, 5642), (43, 5669), (45, 5702),

Gene: Viceroy_15 Start: 4592, Stop: 5350, Start Num: 6
Candidate Starts for Viceroy_15:
(Start: 6 @4592 has 40 MA's), (12, 4751), (13, 4799), (14, 4808), (16, 4856), (17, 4862), (20, 4961), (25, 5105), (31, 5204), (35, 5243), (40, 5276), (43, 5303), (45, 5336),

Gene: Wayne3_17 Start: 5530, Stop: 6288, Start Num: 6
Candidate Starts for Wayne3_17:
(Start: 6 @5530 has 40 MA's), (12, 5689), (13, 5737), (14, 5746), (16, 5794), (17, 5800), (20, 5899), (25, 6043), (31, 6142), (35, 6181), (40, 6214), (43, 6241), (45, 6274),

Gene: WheelerS25_21 Start: 6331, Stop: 7095, Start Num: 6
Candidate Starts for WheelerS25_21:
(Start: 6 @6331 has 40 MA's), (12, 6490), (13, 6538), (14, 6547), (16, 6595), (17, 6601), (20, 6700), (25, 6844), (26, 6847), (31, 6943), (35, 6982), (40, 7015), (43, 7042), (45, 7075),

Gene: Wheelie_15 Start: 4881, Stop: 5639, Start Num: 6
Candidate Starts for Wheelie_15:
(Start: 6 @4881 has 40 MA's), (12, 5040), (13, 5088), (14, 5097), (16, 5145), (17, 5151), (20, 5250), (25, 5394), (31, 5493), (35, 5532), (40, 5565), (43, 5592), (45, 5625),

Gene: Wilca_17 Start: 4590, Stop: 5255, Start Num: 8
Candidate Starts for Wilca_17:
(4, 4485), (Start: 8 @4590 has 15 MA's), (17, 4776), (18, 4857), (19, 4866), (20, 4875), (22, 4920), (23, 4956), (24, 4977), (29, 5079), (30, 5088), (32, 5124), (34, 5154), (35, 5157), (37, 5166),

Gene: Zagie_16 Start: 5095, Stop: 5853, Start Num: 6
Candidate Starts for Zagie_16:
(Start: 6 @5095 has 40 MA's), (12, 5254), (13, 5302), (14, 5311), (16, 5359), (17, 5365), (20, 5464), (25, 5608), (31, 5707), (35, 5746), (40, 5779), (43, 5806), (45, 5839),

Gene: ZestyBestie_15 Start: 4765, Stop: 5523, Start Num: 6
Candidate Starts for ZestyBestie_15:
(Start: 6 @4765 has 40 MA's), (12, 4924), (13, 4972), (14, 4981), (16, 5029), (17, 5035), (20, 5134), (25, 5278), (26, 5281), (31, 5377), (35, 5416), (40, 5449), (43, 5476), (45, 5509),

Gene: Zhafia_18 Start: 5330, Stop: 6088, Start Num: 6
Candidate Starts for Zhafia_18:
(Start: 6 @5330 has 40 MA's), (12, 5489), (13, 5537), (14, 5546), (16, 5594), (17, 5600), (20, 5699), (25, 5843), (26, 5846), (31, 5942), (35, 5981), (40, 6014), (43, 6041), (45, 6074),