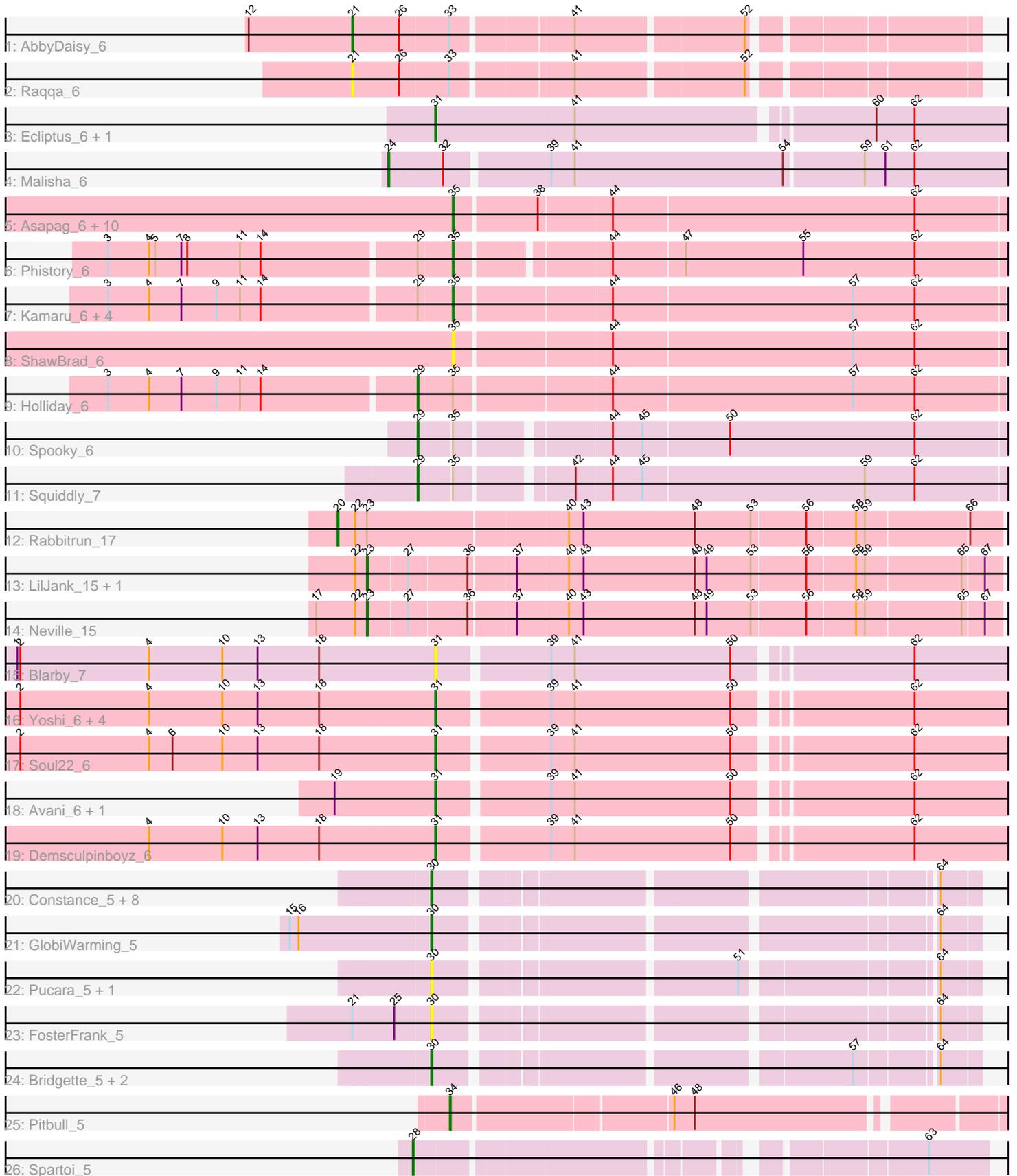


Pham 283841



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 283841 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283841 has 58 members, 13 are drafts.

Phages represented in each track:

- Track 1 : AbbyDaisy_6
- Track 2 : Raqqa_6
- Track 3 : Ecliptus_6, ODay_6
- Track 4 : Malisha_6
- Track 5 : Asapag_6, Whitney_6, Getalong_6, Lutum_6, Leroy_6, Kenna_6, BotCity_6, BENtherdunthat_6, Periwinkle_6, Frickyeah_6, Horus_6
- Track 6 : Phistory_6
- Track 7 : Kamaru_6, Budski_6, Phabuloso_6, CheeseTouch_6, LitninMcQueen_6
- Track 8 : ShawBrad_6
- Track 9 : Holliday_6
- Track 10 : Spooky_6
- Track 11 : Squiddly_7
- Track 12 : Rabbitrun_17
- Track 13 : LilJank_15, Trax_15
- Track 14 : Neville_15
- Track 15 : Blarby_7
- Track 16 : Yoshi_6, Jabbawokkie_7, Zapner_7, Che9d_6, Ogopogo_7
- Track 17 : Soul22_6
- Track 18 : Avani_6, SilverChicken_6
- Track 19 : Demsculpinboyz_6
- Track 20 : Constance_5, PeggyLeg03_5, LilyBell_5, Judy_5, Eileen_5, Peas_5, NidoQ_5, KayMoney_5, NikkiHotWheels_5
- Track 21 : GlobiWarming_5
- Track 22 : Pucara_5, HotPotato_5
- Track 23 : FosterFrank_5
- Track 24 : Bridgette_5, Karkharias_5, Henrique_5
- Track 25 : Pitbull_5
- Track 26 : Spartoi_5

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

The start number called the most often in the published annotations is 35, it was called in 16 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asapag_6, BENtherdunthat_6, BotCity_6, Budski_6, CheeseTouch_6, Frickyeah_6, Getalong_6, Horus_6, Kamaru_6, Kenna_6, Leroy_6, LitninMcQueen_6, Lutum_6, Periwinkle_6, Phabuloso_6, Phistory_6, ShawBrad_6, Whitney_6,

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

- Holliday_6, Spooky_6, Squiddly_7,

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

- AbbyDaisy_6, Avani_6, Blarby_7, Bridgette_5, Che9d_6, Constance_5, Demsculpinboyz_6, Ecliptus_6, Eileen_5, FosterFrank_5, GlobiWarming_5, Henrique_5, HotPotato_5, Jabbawokkie_7, Judy_5, Karkharias_5, KayMoney_5, LilJank_15, LilyBell_5, Malisha_6, Neville_15, NidoQ_5, NikkiHotWheels_5, ODay_6, Ogopogo_7, Peas_5, PeggyLeg03_5, Pitbull_5, Pucara_5, Rabbitrun_17, Raqqa_6, SilverChicken_6, Soul22_6, Spartoi_5, Trax_15, Yoshi_6, Zapner_7,

Summary by start number:

Start 20:

- Found in 1 of 58 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rabbitrun_17 (DU2),

Start 21:

- Found in 3 of 58 (5.2%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 66.7% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_6 (AY), Raqqa_6 (AY),

Start 23:

- Found in 4 of 58 (6.9%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 75.0% of time when present
- Phage (with cluster) where this start called: LilJank_15 (DU2), Neville_15 (DU2), Trax_15 (DU2),

Start 24:

- Found in 1 of 58 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Malisha_6 (DN),

Start 28:

- Found in 1 of 58 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spartoi_5 (singleton),

Start 29:

- Found in 9 of 58 (15.5%) of genes in pham
- Manual Annotations of this start: 3 of 45
- Called 33.3% of time when present

- Phage (with cluster) where this start called: Holliday_6 (DN1), Spooky_6 (DN2), Squiddly_7 (DN2),

Start 30:

- Found in 16 of 58 (27.6%) of genes in pham
- Manual Annotations of this start: 9 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bridgette_5 (FA), Constance_5 (FA), Eileen_5 (FA), FosterFrank_5 (FA), GlobiWarming_5 (FA), Henrique_5 (FA), HotPotato_5 (FA), Judy_5 (FA), Karkharias_5 (FA), KayMoney_5 (FA), LilyBell_5 (FA), NidoQ_5 (FA), NikkiHotWheels_5 (FA), Peas_5 (FA), PeggyLeg03_5 (FA), Pucara_5 (FA),

Start 31:

- Found in 12 of 58 (20.7%) of genes in pham
- Manual Annotations of this start: 10 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Avani_6 (F2), Blarby_7 (F), Che9d_6 (F2), Demsculpinboyz_6 (F2), Ecliptus_6 (DN), Jabbawokkie_7 (F2), ODay_6 (DN), Ogopogo_7 (F1), SilverChicken_6 (F2), Soul22_6 (F2), Yoshi_6 (F2), Zapner_7 (F2),

Start 34:

- Found in 1 of 58 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pitbull_5 (FQ),

Start 35:

- Found in 21 of 58 (36.2%) of genes in pham
- Manual Annotations of this start: 16 of 45
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Asapag_6 (DN1), BENtherdunthat_6 (DN1), BotCity_6 (DN), Budski_6 (DN), CheeseTouch_6 (DN1), Frickyeah_6 (DN1), Getalong_6 (DN1), Horus_6 (DN1), Kamaru_6 (DN1), Kenna_6 (DN1), Leroy_6 (DN1), LitninMcQueen_6 (DN1), Lutum_6 (DN1), Periwinkle_6 (DN1), Phabuloso_6 (DN1), Phistory_6 (DN1), ShawBrad_6 (DN1), Whitney_6 (DN1),

Summary by clusters:

There are 11 clusters represented in this pham: DN, FQ, F2, F, singleton, F1, FA, DN1, DN2, AY, DU2,

Info for manual annotations of cluster AY:

- Start number 21 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster DN:

- Start number 24 was manually annotated 1 time for cluster DN.
- Start number 31 was manually annotated 2 times for cluster DN.
- Start number 35 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 29 was manually annotated 1 time for cluster DN1.
- Start number 35 was manually annotated 14 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 29 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DU2:

- Start number 20 was manually annotated 1 time for cluster DU2.
- Start number 23 was manually annotated 2 times for cluster DU2.

Info for manual annotations of cluster F1:

- Start number 31 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 31 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster FA:

- Start number 30 was manually annotated 9 times for cluster FA.

Info for manual annotations of cluster FQ:

- Start number 34 was manually annotated 1 time for cluster FQ.

Gene Information:

Gene: AbbyDaisy_6 Start: 4441, Stop: 5022, Start Num: 21

Candidate Starts for AbbyDaisy_6:

(12, 4336), (Start: 21 @4441 has 1 MA's), (26, 4489), (33, 4537), (41, 4651), (52, 4813),

Gene: Asapag_6 Start: 4327, Stop: 4878, Start Num: 35

Candidate Starts for Asapag_6:

(Start: 35 @4327 has 16 MA's), (38, 4408), (44, 4480), (62, 4786),

Gene: Avani_6 Start: 4307, Stop: 4855, Start Num: 31

Candidate Starts for Avani_6:

(19, 4205), (Start: 31 @4307 has 10 MA's), (39, 4412), (41, 4436), (50, 4595), (62, 4760),

Gene: BENtherdunthat_6 Start: 4327, Stop: 4878, Start Num: 35

Candidate Starts for BENtherdunthat_6:

(Start: 35 @4327 has 16 MA's), (38, 4408), (44, 4480), (62, 4786),

Gene: Blarby_7 Start: 4831, Stop: 5379, Start Num: 31

Candidate Starts for Blarby_7:

(1, 4405), (2, 4408), (4, 4540), (10, 4615), (13, 4651), (18, 4714), (Start: 31 @4831 has 10 MA's), (39, 4936), (41, 4960), (50, 5119), (62, 5284),

Gene: BotCity_6 Start: 4325, Stop: 4876, Start Num: 35

Candidate Starts for BotCity_6:

(Start: 35 @4325 has 16 MA's), (38, 4406), (44, 4478), (62, 4784),

Gene: Bridgette_5 Start: 5076, Stop: 5570, Start Num: 30

Candidate Starts for Bridgette_5:

(Start: 30 @5076 has 9 MA's), (57, 5457), (64, 5532),

Gene: Budski_6 Start: 4327, Stop: 4875, Start Num: 35

Candidate Starts for Budski_6:

(3, 3985), (4, 4027), (7, 4060), (9, 4096), (11, 4120), (14, 4141), (Start: 29 @4294 has 3 MA's), (Start: 35 @4327 has 16 MA's), (44, 4480), (57, 4723), (62, 4786),

Gene: Che9d_6 Start: 4316, Stop: 4864, Start Num: 31

Candidate Starts for Che9d_6:

(2, 3893), (4, 4025), (10, 4100), (13, 4136), (18, 4199), (Start: 31 @4316 has 10 MA's), (39, 4421), (41, 4445), (50, 4604), (62, 4769),

Gene: CheeseTouch_6 Start: 4327, Stop: 4875, Start Num: 35

Candidate Starts for CheeseTouch_6:

(3, 3985), (4, 4027), (7, 4060), (9, 4096), (11, 4120), (14, 4141), (Start: 29 @4294 has 3 MA's), (Start: 35 @4327 has 16 MA's), (44, 4480), (57, 4723), (62, 4786),

Gene: Constance_5 Start: 5077, Stop: 5574, Start Num: 30

Candidate Starts for Constance_5:

(Start: 30 @5077 has 9 MA's), (64, 5536),

Gene: Demsculpinboyz_6 Start: 4307, Stop: 4855, Start Num: 31

Candidate Starts for Demsculpinboyz_6:

(4, 4016), (10, 4091), (13, 4127), (18, 4190), (Start: 31 @4307 has 10 MA's), (39, 4412), (41, 4436), (50, 4595), (62, 4760),

Gene: Ecliptus_6 Start: 4342, Stop: 4902, Start Num: 31

Candidate Starts for Ecliptus_6:

(Start: 31 @4342 has 10 MA's), (41, 4483), (60, 4768), (62, 4807),

Gene: Eileen_5 Start: 5037, Stop: 5534, Start Num: 30

Candidate Starts for Eileen_5:

(Start: 30 @5037 has 9 MA's), (64, 5496),

Gene: FosterFrank_5 Start: 5039, Stop: 5533, Start Num: 30

Candidate Starts for FosterFrank_5:

(Start: 21 @4961 has 1 MA's), (25, 5003), (Start: 30 @5039 has 9 MA's), (64, 5495),

Gene: Frickyeah_6 Start: 4327, Stop: 4878, Start Num: 35

Candidate Starts for Frickyeah_6:

(Start: 35 @4327 has 16 MA's), (38, 4408), (44, 4480), (62, 4786),

Gene: Getalong_6 Start: 4327, Stop: 4878, Start Num: 35

Candidate Starts for Getalong_6:

(Start: 35 @4327 has 16 MA's), (38, 4408), (44, 4480), (62, 4786),

Gene: GlobiWarming_5 Start: 5032, Stop: 5529, Start Num: 30

Candidate Starts for GlobiWarming_5:

(15, 4891), (16, 4900), (Start: 30 @5032 has 9 MA's), (64, 5491),

Gene: Henrique_5 Start: 5037, Stop: 5531, Start Num: 30

Candidate Starts for Henrique_5:

(Start: 30 @5037 has 9 MA's), (57, 5418), (64, 5493),

Gene: Holliday_6 Start: 4294, Stop: 4875, Start Num: 29
Candidate Starts for Holliday_6:
(3, 3985), (4, 4027), (7, 4060), (9, 4096), (11, 4120), (14, 4141), (Start: 29 @4294 has 3 MA's), (Start: 35 @4327 has 16 MA's), (44, 4480), (57, 4723), (62, 4786),

Gene: Horus_6 Start: 4327, Stop: 4878, Start Num: 35
Candidate Starts for Horus_6:
(Start: 35 @4327 has 16 MA's), (38, 4408), (44, 4480), (62, 4786),

Gene: HotPotato_5 Start: 5037, Stop: 5534, Start Num: 30
Candidate Starts for HotPotato_5:
(Start: 30 @5037 has 9 MA's), (51, 5316), (64, 5496),

Gene: Jabbawokkie_7 Start: 4830, Stop: 5378, Start Num: 31
Candidate Starts for Jabbawokkie_7:
(2, 4407), (4, 4539), (10, 4614), (13, 4650), (18, 4713), (Start: 31 @4830 has 10 MA's), (39, 4935), (41, 4959), (50, 5118), (62, 5283),

Gene: Judy_5 Start: 5076, Stop: 5573, Start Num: 30
Candidate Starts for Judy_5:
(Start: 30 @5076 has 9 MA's), (64, 5535),

Gene: Kamaru_6 Start: 4327, Stop: 4875, Start Num: 35
Candidate Starts for Kamaru_6:
(3, 3985), (4, 4027), (7, 4060), (9, 4096), (11, 4120), (14, 4141), (Start: 29 @4294 has 3 MA's), (Start: 35 @4327 has 16 MA's), (44, 4480), (57, 4723), (62, 4786),

Gene: Karkharias_5 Start: 5037, Stop: 5531, Start Num: 30
Candidate Starts for Karkharias_5:
(Start: 30 @5037 has 9 MA's), (57, 5418), (64, 5493),

Gene: KayMoney_5 Start: 5037, Stop: 5531, Start Num: 30
Candidate Starts for KayMoney_5:
(Start: 30 @5037 has 9 MA's), (64, 5493),

Gene: Kenna_6 Start: 4327, Stop: 4878, Start Num: 35
Candidate Starts for Kenna_6:
(Start: 35 @4327 has 16 MA's), (38, 4408), (44, 4480), (62, 4786),

Gene: Leroy_6 Start: 4328, Stop: 4879, Start Num: 35
Candidate Starts for Leroy_6:
(Start: 35 @4328 has 16 MA's), (38, 4409), (44, 4481), (62, 4787),

Gene: LilJank_15 Start: 8880, Stop: 9503, Start Num: 23
Candidate Starts for LilJank_15:
(22, 8868), (Start: 23 @8880 has 2 MA's), (27, 8919), (36, 8976), (37, 9021), (40, 9072), (43, 9087), (48, 9201), (49, 9213), (53, 9258), (56, 9312), (58, 9360), (59, 9369), (65, 9465), (67, 9486),

Gene: LilyBell_5 Start: 5052, Stop: 5546, Start Num: 30
Candidate Starts for LilyBell_5:
(Start: 30 @5052 has 9 MA's), (64, 5508),

Gene: LitninMcQueen_6 Start: 4327, Stop: 4875, Start Num: 35

Candidate Starts for LitninMcQueen_6:
(3, 3985), (4, 4027), (7, 4060), (9, 4096), (11, 4120), (14, 4141), (Start: 29 @4294 has 3 MA's), (Start: 35 @4327 has 16 MA's), (44, 4480), (57, 4723), (62, 4786),

Gene: Lutum_6 Start: 4327, Stop: 4878, Start Num: 35
Candidate Starts for Lutum_6:
(Start: 35 @4327 has 16 MA's), (38, 4408), (44, 4480), (62, 4786),

Gene: Malisha_6 Start: 5305, Stop: 5919, Start Num: 24
Candidate Starts for Malisha_6:
(Start: 24 @5305 has 1 MA's), (32, 5359), (39, 5458), (41, 5482), (54, 5695), (59, 5773), (61, 5794), (62, 5824),

Gene: Neville_15 Start: 8829, Stop: 9452, Start Num: 23
Candidate Starts for Neville_15:
(17, 8778), (22, 8817), (Start: 23 @8829 has 2 MA's), (27, 8868), (36, 8925), (37, 8970), (40, 9021), (43, 9036), (48, 9150), (49, 9162), (53, 9207), (56, 9261), (58, 9309), (59, 9318), (65, 9414), (67, 9435),

Gene: NidoQ_5 Start: 5094, Stop: 5591, Start Num: 30
Candidate Starts for NidoQ_5:
(Start: 30 @5094 has 9 MA's), (64, 5553),

Gene: NikkiHotWheels_5 Start: 5034, Stop: 5531, Start Num: 30
Candidate Starts for NikkiHotWheels_5:
(Start: 30 @5034 has 9 MA's), (64, 5493),

Gene: ODay_6 Start: 4340, Stop: 4900, Start Num: 31
Candidate Starts for ODay_6:
(Start: 31 @4340 has 10 MA's), (41, 4481), (60, 4766), (62, 4805),

Gene: Ogopogo_7 Start: 4568, Stop: 5116, Start Num: 31
Candidate Starts for Ogopogo_7:
(2, 4145), (4, 4277), (10, 4352), (13, 4388), (18, 4451), (Start: 31 @4568 has 10 MA's), (39, 4673), (41, 4697), (50, 4856), (62, 5021),

Gene: Peas_5 Start: 5037, Stop: 5534, Start Num: 30
Candidate Starts for Peas_5:
(Start: 30 @5037 has 9 MA's), (64, 5496),

Gene: PeggyLeg03_5 Start: 5077, Stop: 5574, Start Num: 30
Candidate Starts for PeggyLeg03_5:
(Start: 30 @5077 has 9 MA's), (64, 5536),

Gene: Periwinkle_6 Start: 4327, Stop: 4878, Start Num: 35
Candidate Starts for Periwinkle_6:
(Start: 35 @4327 has 16 MA's), (38, 4408), (44, 4480), (62, 4786),

Gene: Phabuloso_6 Start: 4327, Stop: 4875, Start Num: 35
Candidate Starts for Phabuloso_6:
(3, 3985), (4, 4027), (7, 4060), (9, 4096), (11, 4120), (14, 4141), (Start: 29 @4294 has 3 MA's), (Start: 35 @4327 has 16 MA's), (44, 4480), (57, 4723), (62, 4786),

Gene: Phistory_6 Start: 4325, Stop: 4867, Start Num: 35

Candidate Starts for Phistory_6:

(3, 3986), (4, 4028), (5, 4034), (7, 4061), (8, 4067), (11, 4121), (14, 4142), (Start: 29 @4295 has 3 MA's), (Start: 35 @4325 has 16 MA's), (44, 4469), (47, 4541), (55, 4661), (62, 4775),

Gene: Pitbull_5 Start: 3934, Stop: 4455, Start Num: 34

Candidate Starts for Pitbull_5:

(Start: 34 @3934 has 1 MA's), (46, 4144), (48, 4165),

Gene: Pucara_5 Start: 5039, Stop: 5533, Start Num: 30

Candidate Starts for Pucara_5:

(Start: 30 @5039 has 9 MA's), (51, 5318), (64, 5495),

Gene: Rabbitrun_17 Start: 9317, Stop: 9976, Start Num: 20

Candidate Starts for Rabbitrun_17:

(Start: 20 @9317 has 1 MA's), (22, 9335), (Start: 23 @9347 has 2 MA's), (40, 9545), (43, 9560), (48, 9674), (53, 9731), (56, 9785), (58, 9833), (59, 9842), (66, 9944),

Gene: Raqqa_6 Start: 4752, Stop: 5333, Start Num: 21

Candidate Starts for Raqqa_6:

(Start: 21 @4752 has 1 MA's), (26, 4800), (33, 4848), (41, 4962), (52, 5124),

Gene: ShawBrad_6 Start: 4327, Stop: 4875, Start Num: 35

Candidate Starts for ShawBrad_6:

(Start: 35 @4327 has 16 MA's), (44, 4480), (57, 4723), (62, 4786),

Gene: SilverChicken_6 Start: 4307, Stop: 4855, Start Num: 31

Candidate Starts for SilverChicken_6:

(19, 4205), (Start: 31 @4307 has 10 MA's), (39, 4412), (41, 4436), (50, 4595), (62, 4760),

Gene: Soul22_6 Start: 4306, Stop: 4854, Start Num: 31

Candidate Starts for Soul22_6:

(2, 3883), (4, 4015), (6, 4039), (10, 4090), (13, 4126), (18, 4189), (Start: 31 @4306 has 10 MA's), (39, 4411), (41, 4435), (50, 4594), (62, 4759),

Gene: Spartoi_5 Start: 4178, Stop: 4681, Start Num: 28

Candidate Starts for Spartoi_5:

(Start: 28 @4178 has 1 MA's), (63, 4622),

Gene: Spooky_6 Start: 4301, Stop: 4870, Start Num: 29

Candidate Starts for Spooky_6:

(Start: 29 @4301 has 3 MA's), (Start: 35 @4331 has 16 MA's), (44, 4472), (45, 4502), (50, 4589), (62, 4778),

Gene: Squiddly_7 Start: 4994, Stop: 5563, Start Num: 29

Candidate Starts for Squiddly_7:

(Start: 29 @4994 has 3 MA's), (Start: 35 @5024 has 16 MA's), (42, 5129), (44, 5165), (45, 5195), (59, 5420), (62, 5471),

Gene: Trax_15 Start: 8829, Stop: 9452, Start Num: 23

Candidate Starts for Trax_15:

(22, 8817), (Start: 23 @8829 has 2 MA's), (27, 8868), (36, 8925), (37, 8970), (40, 9021), (43, 9036), (48, 9150), (49, 9162), (53, 9207), (56, 9261), (58, 9309), (59, 9318), (65, 9414), (67, 9435),

Gene: Whitney_6 Start: 4327, Stop: 4878, Start Num: 35

Candidate Starts for Whitney_6:

(Start: 35 @4327 has 16 MA's), (38, 4408), (44, 4480), (62, 4786),

Gene: Yoshi_6 Start: 4306, Stop: 4854, Start Num: 31

Candidate Starts for Yoshi_6:

(2, 3883), (4, 4015), (10, 4090), (13, 4126), (18, 4189), (Start: 31 @4306 has 10 MA's), (39, 4411), (41, 4435), (50, 4594), (62, 4759),

Gene: Zapner_7 Start: 4831, Stop: 5379, Start Num: 31

Candidate Starts for Zapner_7:

(2, 4408), (4, 4540), (10, 4615), (13, 4651), (18, 4714), (Start: 31 @4831 has 10 MA's), (39, 4936), (41, 4960), (50, 5119), (62, 5284),