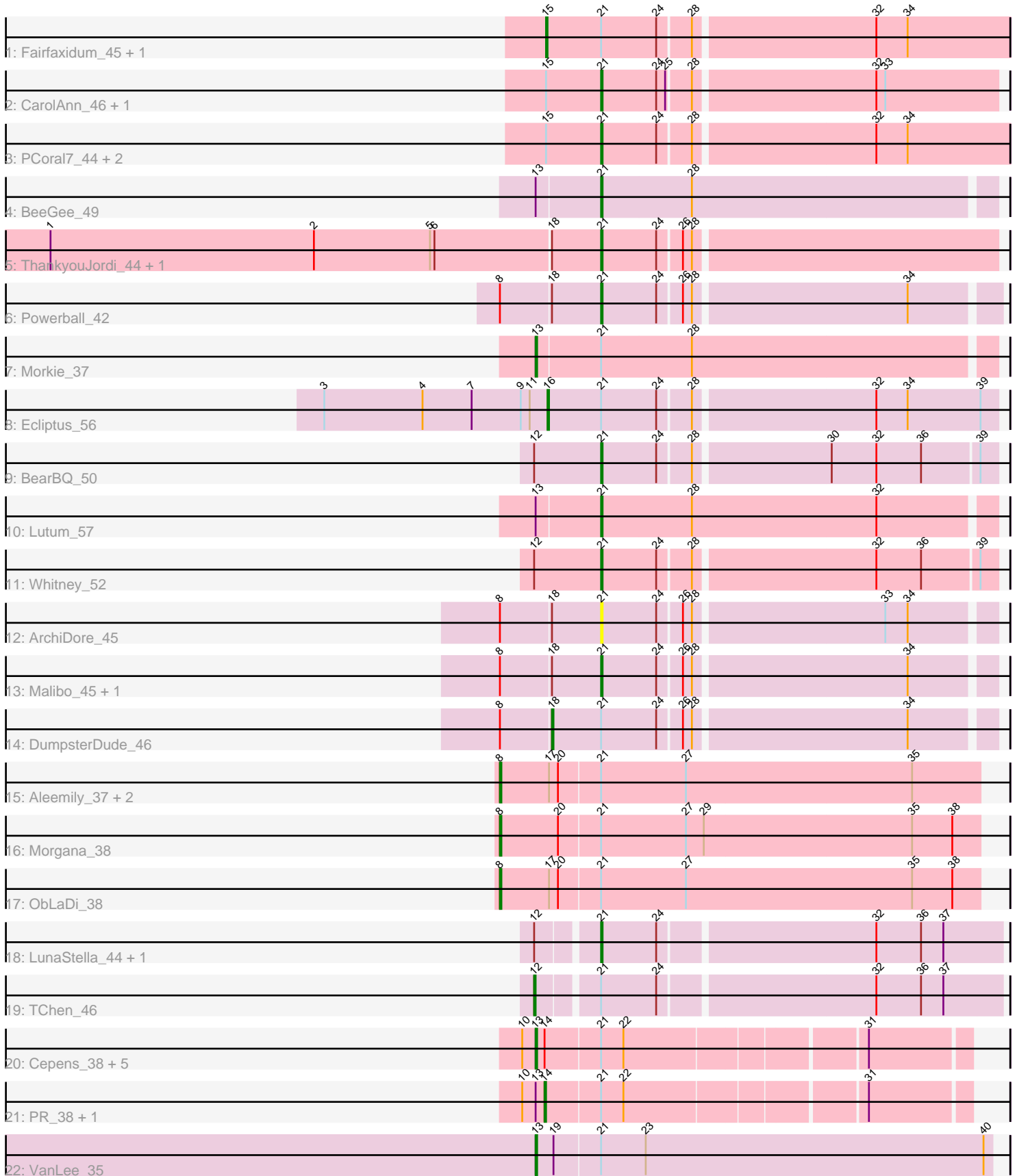


Pham 200288



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 200288 Report

This analysis was run 01/18/25 on database version 583.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 200288 has 37 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Fairfaxidum_45, Toast_44
- Track 2 : CarolAnn_46, Blino_47
- Track 3 : PCoral7_44, PrincePatrick_43, William_45
- Track 4 : BeeGee_49
- Track 5 : ThankyouJordi_44, WelcomeAyanna_44
- Track 6 : Powerball_42
- Track 7 : Morkie_37
- Track 8 : Ecliptus_56
- Track 9 : BearBQ_50
- Track 10 : Lutum_57
- Track 11 : Whitney_52
- Track 12 : ArchiDore_45
- Track 13 : Malibo_45, Ruthy_44
- Track 14 : DumpsterDude_46
- Track 15 : Aleemily_37, Cafasso_38, ModicumRichard_38
- Track 16 : Morgana_38
- Track 17 : ObLaDi_38
- Track 18 : LunaStella_44, MooMoo_43
- Track 19 : TChen_46
- Track 20 : Cepens_38, Argie_39, Megabear_38, Jeon_38, GodPhather_39, Taptic_38
- Track 21 : PR_38, D12_37
- Track 22 : VanLee_35

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

The start number called the most often in the published annotations is 21, it was called in 16 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ArchiDore_45, BearBQ_50, BeeGee_49, Blino_47, CarolAnn_46, LunaStella_44, Lutum_57, Malibo_45, MooMoo_43, PCoral7_44, Powerball_42, PrincePatrick_43, Ruthy_44, ThankyouJordi_44, WelcomeAyanna_44, Whitney_52, William_45,

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

- Aleemily_37, Argie_39, Cafasso_38, Cepens_38, D12_37, DumpsterDude_46, Ecliptus_56, Fairfaxidum_45, GodPhather_39, Jeon_38, Megabear_38, ModicumRichard_38, Morgana_38, Morkie_37, ObLaDi_38, PR_38, TChen_46, Taptic_38, Toast_44, VanLee_35,

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

-

Summary by start number:

Start 8:

- Found in 10 of 37 (27.0%) of genes in pham
- Manual Annotations of this start: 4 of 35
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Aleemily_37 (DZ), Cafasso_38 (DZ), ModicumRichard_38 (DZ), Morgana_38 (DZ), ObLaDi_38 (DZ),

Start 12:

- Found in 5 of 37 (13.5%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 20.0% of time when present
- Phage (with cluster) where this start called: TChen_46 (F4),

Start 13:

- Found in 12 of 37 (32.4%) of genes in pham
- Manual Annotations of this start: 8 of 35
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Argie_39 (W), Cepens_38 (W), GodPhather_39 (W), Jeon_38 (W), Megabear_38 (W), Morkie_37 (DH), Taptic_38 (W), VanLee_35 (singleton),

Start 14:

- Found in 8 of 37 (21.6%) of genes in pham
- Manual Annotations of this start: 2 of 35
- Called 25.0% of time when present
- Phage (with cluster) where this start called: D12_37 (W), PR_38 (W),

Start 15:

- Found in 7 of 37 (18.9%) of genes in pham
- Manual Annotations of this start: 2 of 35
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Fairfaxidum_45 (CV), Toast_44 (CV),

Start 16:

- Found in 1 of 37 (2.7%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ecliptus_56 (DN),

Start 18:

- Found in 7 of 37 (18.9%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 14.3% of time when present
- Phage (with cluster) where this start called: DumpsterDude_46 (DW),

Start 21:

- Found in 37 of 37 (100.0%) of genes in pham
- Manual Annotations of this start: 16 of 35
- Called 45.9% of time when present
- Phage (with cluster) where this start called: ArchiDore_45 (DW), BearBQ_50 (DN), BeeGee_49 (CY), Blino_47 (CV), CarolAnn_46 (CV), LunaStella_44 (F4), Lutum_57 (DN1), Malibo_45 (DW), MooMoo_43 (singleton), PCoral7_44 (CV), Powerball_42 (CZ4), PrincePatrick_43 (CV), Ruthy_44 (DW), ThankyouJordi_44 (CZ1), WelcomeAyanna_44 (CZ1), Whitney_52 (DN1), William_45 (CV),

Summary by clusters:

There are 12 clusters represented in this pham: DN, singleton, F4, DH, CZ1, CZ4, CY, DZ, W, DW, DN1, CV,

Info for manual annotations of cluster CV:

- Start number 15 was manually annotated 2 times for cluster CV.
- Start number 21 was manually annotated 5 times for cluster CV.

Info for manual annotations of cluster CY:

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

Info for manual annotations of cluster CZ1:

- Start number 21 was manually annotated 2 times for cluster CZ1.

Info for manual annotations of cluster CZ4:

- Start number 21 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster DH:

- Start number 13 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:

- Start number 16 was manually annotated 1 time for cluster DN.
- Start number 21 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 21 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster DW:

- Start number 18 was manually annotated 1 time for cluster DW.
- Start number 21 was manually annotated 2 times for cluster DW.

Info for manual annotations of cluster DZ:

- Start number 8 was manually annotated 4 times for cluster DZ.

Info for manual annotations of cluster F4:

- Start number 12 was manually annotated 1 time for cluster F4.
- Start number 21 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster W:

- Start number 13 was manually annotated 6 times for cluster W.
- Start number 14 was manually annotated 2 times for cluster W.

Gene Information:

Gene: Aleemily_37 Start: 31413, Stop: 31730, Start Num: 8

Candidate Starts for Aleemily_37:

(Start: 8 @31413 has 4 MA's), (17, 31446), (20, 31452), (Start: 21 @31479 has 16 MA's), (27, 31536), (35, 31686),

Gene: ArchiDore_45 Start: 36013, Stop: 36261, Start Num: 21

Candidate Starts for ArchiDore_45:

(Start: 8 @35947 has 4 MA's), (Start: 18 @35980 has 1 MA's), (Start: 21 @36013 has 16 MA's), (24, 36049), (26, 36064), (28, 36070), (33, 36193), (34, 36208),

Gene: Argie_39 Start: 38767, Stop: 39039, Start Num: 13

Candidate Starts for Argie_39:

(10, 38758), (Start: 13 @38767 has 8 MA's), (Start: 14 @38773 has 2 MA's), (Start: 21 @38809 has 16 MA's), (22, 38824), (31, 38974),

Gene: BearBQ_50 Start: 36850, Stop: 37101, Start Num: 21

Candidate Starts for BearBQ_50:

(Start: 12 @36805 has 1 MA's), (Start: 21 @36850 has 16 MA's), (24, 36886), (28, 36907), (30, 36994), (32, 37024), (36, 37054), (39, 37090),

Gene: BeeGee_49 Start: 36014, Stop: 36271, Start Num: 21

Candidate Starts for BeeGee_49:

(Start: 13 @35972 has 8 MA's), (Start: 21 @36014 has 16 MA's), (28, 36074),

Gene: Blino_47 Start: 38067, Stop: 38321, Start Num: 21

Candidate Starts for Blino_47:

(Start: 15 @38031 has 2 MA's), (Start: 21 @38067 has 16 MA's), (24, 38103), (25, 38109), (28, 38124), (32, 38241), (33, 38247),

Gene: Cafasso_38 Start: 31987, Stop: 32304, Start Num: 8

Candidate Starts for Cafasso_38:

(Start: 8 @31987 has 4 MA's), (17, 32020), (20, 32026), (Start: 21 @32053 has 16 MA's), (27, 32110), (35, 32260),

Gene: CarolAnn_46 Start: 38066, Stop: 38320, Start Num: 21

Candidate Starts for CarolAnn_46:

(Start: 15 @38030 has 2 MA's), (Start: 21 @38066 has 16 MA's), (24, 38102), (25, 38108), (28, 38123), (32, 38240), (33, 38246),

Gene: Cepens_38 Start: 38482, Stop: 38754, Start Num: 13

Candidate Starts for Cepens_38:

(10, 38473), (Start: 13 @38482 has 8 MA's), (Start: 14 @38488 has 2 MA's), (Start: 21 @38524 has 16 MA's), (22, 38539), (31, 38689),

Gene: D12_37 Start: 39036, Stop: 39302, Start Num: 14

Candidate Starts for D12_37:

(10, 39021), (Start: 13 @39030 has 8 MA's), (Start: 14 @39036 has 2 MA's), (Start: 21 @39072 has 16 MA's), (22, 39087), (31, 39237),

Gene: DumpsterDude_46 Start: 38205, Stop: 38486, Start Num: 18

Candidate Starts for DumpsterDude_46:

(Start: 8 @38172 has 4 MA's), (Start: 18 @38205 has 1 MA's), (Start: 21 @38238 has 16 MA's), (24, 38274), (26, 38289), (28, 38295), (34, 38433),

Gene: Ecliptus_56 Start: 37774, Stop: 38064, Start Num: 16

Candidate Starts for Ecliptus_56:

(3, 37624), (4, 37690), (7, 37723), (9, 37756), (11, 37762), (Start: 16 @37774 has 1 MA's), (Start: 21 @37810 has 16 MA's), (24, 37846), (28, 37867), (32, 37984), (34, 38005), (39, 38053),

Gene: Fairfaxidum_45 Start: 35457, Stop: 35756, Start Num: 15

Candidate Starts for Fairfaxidum_45:

(Start: 15 @35457 has 2 MA's), (Start: 21 @35493 has 16 MA's), (24, 35529), (28, 35550), (32, 35667), (34, 35688),

Gene: GodPhather_39 Start: 39246, Stop: 39518, Start Num: 13

Candidate Starts for GodPhather_39:

(10, 39237), (Start: 13 @39246 has 8 MA's), (Start: 14 @39252 has 2 MA's), (Start: 21 @39288 has 16 MA's), (22, 39303), (31, 39453),

Gene: Jeon_38 Start: 38988, Stop: 39260, Start Num: 13

Candidate Starts for Jeon_38:

(10, 38979), (Start: 13 @38988 has 8 MA's), (Start: 14 @38994 has 2 MA's), (Start: 21 @39030 has 16 MA's), (22, 39045), (31, 39195),

Gene: LunaStella_44 Start: 33802, Stop: 34059, Start Num: 21

Candidate Starts for LunaStella_44:

(Start: 12 @33766 has 1 MA's), (Start: 21 @33802 has 16 MA's), (24, 33838), (32, 33976), (36, 34006), (37, 34021),

Gene: Lutum_57 Start: 36995, Stop: 37252, Start Num: 21

Candidate Starts for Lutum_57:

(Start: 13 @36953 has 8 MA's), (Start: 21 @36995 has 16 MA's), (28, 37055), (32, 37178),

Gene: Malibo_45 Start: 35237, Stop: 35485, Start Num: 21

Candidate Starts for Malibo_45:

(Start: 8 @35171 has 4 MA's), (Start: 18 @35204 has 1 MA's), (Start: 21 @35237 has 16 MA's), (24, 35273), (26, 35288), (28, 35294), (34, 35432),

Gene: Megabear_38 Start: 38403, Stop: 38675, Start Num: 13

Candidate Starts for Megabear_38:

(10, 38394), (Start: 13 @38403 has 8 MA's), (Start: 14 @38409 has 2 MA's), (Start: 21 @38445 has 16 MA's), (22, 38460), (31, 38610),

Gene: ModicumRichard_38 Start: 31986, Stop: 32303, Start Num: 8

Candidate Starts for ModicumRichard_38:

(Start: 8 @31986 has 4 MA's), (17, 32019), (20, 32025), (Start: 21 @32052 has 16 MA's), (27, 32109), (35, 32259),

Gene: MooMoo_43 Start: 34078, Stop: 34335, Start Num: 21

Candidate Starts for MooMoo_43:

(Start: 12 @34042 has 1 MA's), (Start: 21 @34078 has 16 MA's), (24, 34114), (32, 34252), (36, 34282), (37, 34297),

Gene: Morgana_38 Start: 31938, Stop: 32255, Start Num: 8

Candidate Starts for Morgana_38:

(Start: 8 @31938 has 4 MA's), (20, 31977), (Start: 21 @32004 has 16 MA's), (27, 32061), (29, 32073), (35, 32211), (38, 32238),

Gene: Morkie_37 Start: 28817, Stop: 29116, Start Num: 13

Candidate Starts for Morkie_37:

(Start: 13 @28817 has 8 MA's), (Start: 21 @28859 has 16 MA's), (28, 28919),

Gene: ObLaDi_38 Start: 31970, Stop: 32287, Start Num: 8

Candidate Starts for ObLaDi_38:

(Start: 8 @31970 has 4 MA's), (17, 32003), (20, 32009), (Start: 21 @32036 has 16 MA's), (27, 32093), (35, 32243), (38, 32270),

Gene: PCoral7_44 Start: 34911, Stop: 35174, Start Num: 21

Candidate Starts for PCoral7_44:

(Start: 15 @34875 has 2 MA's), (Start: 21 @34911 has 16 MA's), (24, 34947), (28, 34968), (32, 35085), (34, 35106),

Gene: PR_38 Start: 39013, Stop: 39279, Start Num: 14

Candidate Starts for PR_38:

(10, 38998), (Start: 13 @39007 has 8 MA's), (Start: 14 @39013 has 2 MA's), (Start: 21 @39049 has 16 MA's), (22, 39064), (31, 39214),

Gene: Powerball_42 Start: 33050, Stop: 33301, Start Num: 21

Candidate Starts for Powerball_42:

(Start: 8 @32984 has 4 MA's), (Start: 18 @33017 has 1 MA's), (Start: 21 @33050 has 16 MA's), (24, 33086), (26, 33101), (28, 33107), (34, 33245),

Gene: PrincePatrick_43 Start: 33264, Stop: 33527, Start Num: 21

Candidate Starts for PrincePatrick_43:

(Start: 15 @33228 has 2 MA's), (Start: 21 @33264 has 16 MA's), (24, 33300), (28, 33321), (32, 33438), (34, 33459),

Gene: Ruthy_44 Start: 35600, Stop: 35848, Start Num: 21

Candidate Starts for Ruthy_44:

(Start: 8 @35534 has 4 MA's), (Start: 18 @35567 has 1 MA's), (Start: 21 @35600 has 16 MA's), (24, 35636), (26, 35651), (28, 35657), (34, 35795),

Gene: TChen_46 Start: 35717, Stop: 36010, Start Num: 12

Candidate Starts for TChen_46:

(Start: 12 @35717 has 1 MA's), (Start: 21 @35753 has 16 MA's), (24, 35789), (32, 35927), (36, 35957), (37, 35972),

Gene: Taptic_38 Start: 38403, Stop: 38675, Start Num: 13

Candidate Starts for Taptic_38:

(10, 38394), (Start: 13 @38403 has 8 MA's), (Start: 14 @38409 has 2 MA's), (Start: 21 @38445 has 16 MA's), (22, 38460), (31, 38610),

Gene: ThankyouJordi_44 Start: 36245, Stop: 36499, Start Num: 21

Candidate Starts for ThankyouJordi_44:

(1, 35879), (2, 36056), (5, 36134), (6, 36137), (Start: 18 @36212 has 1 MA's), (Start: 21 @36245 has 16 MA's), (24, 36281), (26, 36296), (28, 36302),

Gene: Toast_44 Start: 34875, Stop: 35174, Start Num: 15

Candidate Starts for Toast_44:

(Start: 15 @34875 has 2 MA's), (Start: 21 @34911 has 16 MA's), (24, 34947), (28, 34968), (32, 35085), (34, 35106),

Gene: VanLee_35 Start: 29075, Stop: 29377, Start Num: 13

Candidate Starts for VanLee_35:

(Start: 13 @29075 has 8 MA's), (19, 29087), (Start: 21 @29117 has 16 MA's), (23, 29147), (40, 29372),

Gene: WelcomeAyanna_44 Start: 36392, Stop: 36646, Start Num: 21

Candidate Starts for WelcomeAyanna_44:

(1, 36026), (2, 36203), (5, 36281), (6, 36284), (Start: 18 @36359 has 1 MA's), (Start: 21 @36392 has 16 MA's), (24, 36428), (26, 36443), (28, 36449),

Gene: Whitney_52 Start: 37087, Stop: 37338, Start Num: 21

Candidate Starts for Whitney_52:

(Start: 12 @37042 has 1 MA's), (Start: 21 @37087 has 16 MA's), (24, 37123), (28, 37144), (32, 37261), (36, 37291), (39, 37327),

Gene: William_45 Start: 34949, Stop: 35212, Start Num: 21

Candidate Starts for William_45:

(Start: 15 @34913 has 2 MA's), (Start: 21 @34949 has 16 MA's), (24, 34985), (28, 35006), (32, 35123), (34, 35144),