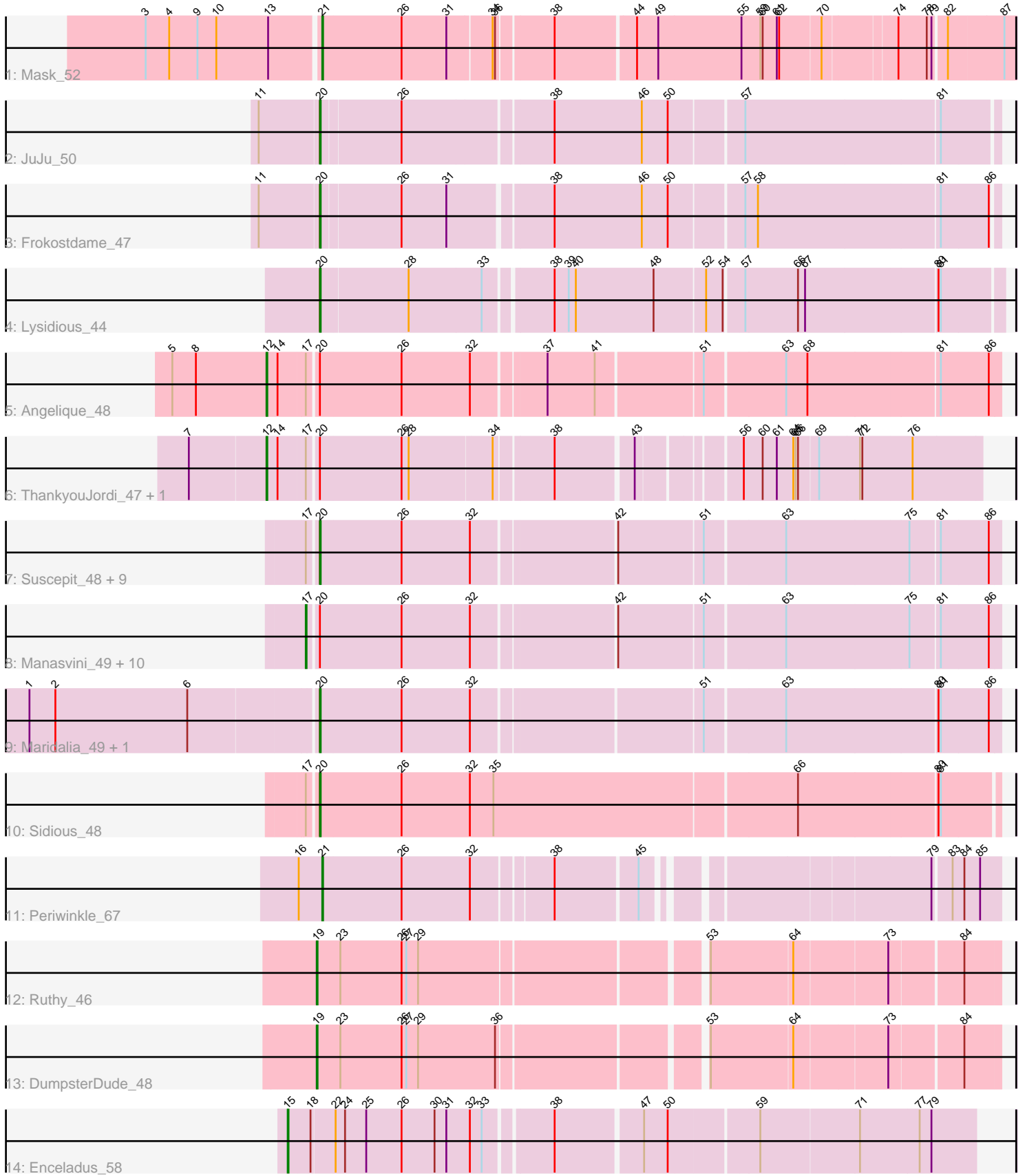


Pham 163055



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 163055 Report

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

Pham number 163055 has 35 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Mask_52
- Track 2 : JuJu_50
- Track 3 : Frokostdame_47
- Track 4 : Lysidious_44
- Track 5 : Angelique_48
- Track 6 : ThankyouJordi_47, WelcomeAyanna_47
- Track 7 : Suscepit_48, AlumE_48, Eudoria_48, BoyNamedSue_48, Neobush_48, Trumpet_48, Tayonia_48, Polly_45, Agueybana_50, Zameen_48
- Track 8 : Manasvini_49, Yeet412_43, Attis_43, LordFarquaad_45, Zirinka_45, EdnaMode_42, Antonio_48, Pickett_41, SoilAssassin_43, Kita_49, Bialota_46
- Track 9 : Maridalia_49, Bunnybear_41
- Track 10 : Sidious_48
- Track 11 : Periwinkle_67
- Track 12 : Ruthy_46
- Track 13 : DumpsterDude_48
- Track 14 : Enceladus_58

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

The start number called the most often in the published annotations is 20, it was called in 16 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agueybana_50, AlumE_48, BoyNamedSue_48, Bunnybear_41, Eudoria_48, Frokostdame_47, JuJu_50, Lysidious_44, Maridalia_49, Neobush_48, Polly_45, Sidious_48, Suscepit_48, Tayonia_48, Trumpet_48, Zameen_48,

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

- Angelique_48, Antonio_48, Attis_43, Bialota_46, EdnaMode_42, Kita_49, LordFarquaad_45, Manasvini_49, Pickett_41, SoilAssassin_43, ThankyouJordi_47, WelcomeAyanna_47, Yeet412_43, Zirinka_45,

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

- DumpsterDude_48, Enceladus_58, Mask_52, Periwinkle_67, Ruthy_46,

Summary by start number:

Start 12:

- Found in 3 of 35 (8.6%) of genes in pham
- Manual Annotations of this start: 3 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angelique_48 (CY1), ThankyouJordi_47 (CZ1), WelcomeAyanna_47 (CZ1),

Start 15:

- Found in 1 of 35 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Enceladus_58 (L1),

Start 17:

- Found in 25 of 35 (71.4%) of genes in pham
- Manual Annotations of this start: 10 of 34
- Called 44.0% of time when present
- Phage (with cluster) where this start called: Antonio_48 (CZ1), Attis_43 (CZ2), Bialota_46 (CZ1), EdnaMode_42 (CZ2), Kita_49 (CZ1), LordFarquaad_45 (CZ2), Manasvini_49 (CZ1), Pickett_41 (CZ2), SoilAssassin_43 (CZ2), Yeet412_43 (CZ2), Zirinka_45 (CZ1),

Start 19:

- Found in 2 of 35 (5.7%) of genes in pham
- Manual Annotations of this start: 2 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DumpsterDude_48 (DW), Ruthy_46 (DW),

Start 20:

- Found in 30 of 35 (85.7%) of genes in pham
- Manual Annotations of this start: 16 of 34
- Called 53.3% of time when present
- Phage (with cluster) where this start called: Agueybana_50 (CZ1), AlumE_48 (CZ1), BoyNamedSue_48 (CZ1), Bunnybear_41 (CZ), Eudoria_48 (CZ1), Frokostdame_47 (CV), JuJu_50 (CV), Lysidious_44 (CV), Maridalia_49 (CZ1), Neobush_48 (CZ1), Polly_45 (CZ1), Sidious_48 (CZ7), Suscepit_48 (CZ1), Tayonia_48 (CZ1), Trumpet_48 (CZ1), Zameen_48 (CZ1),

Start 21:

- Found in 2 of 35 (5.7%) of genes in pham
- Manual Annotations of this start: 2 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mask_52 (AD), Periwinkle_67 (DN1),

Summary by clusters:

There are 10 clusters represented in this pham: CY1, AD, CZ2, CZ1, CZ7, CZ, DN1, L1, DW, CV,

Info for manual annotations of cluster AD:

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

Info for manual annotations of cluster CV:

- Start number 20 was manually annotated 3 times for cluster CV.

Info for manual annotations of cluster CY1:

- Start number 12 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster CZ:

- Start number 20 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 12 was manually annotated 2 times for cluster CZ1.
- Start number 17 was manually annotated 5 times for cluster CZ1.
- Start number 20 was manually annotated 11 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 17 was manually annotated 5 times for cluster CZ2.

Info for manual annotations of cluster CZ7:

- Start number 20 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DN1:

- Start number 21 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DW:

- Start number 19 was manually annotated 2 times for cluster DW.

Info for manual annotations of cluster L1:

- Start number 15 was manually annotated 1 time for cluster L1.

Gene Information:

Gene: Agueybana_50 Start: 37589, Stop: 38413, Start Num: 20

Candidate Starts for Agueybana_50:

(Start: 17 @37577 has 10 MA's), (Start: 20 @37589 has 16 MA's), (26, 37691), (32, 37778), (42, 37949), (51, 38054), (63, 38150), (75, 38303), (81, 38339), (86, 38399),

Gene: AlumE_48 Start: 36089, Stop: 36913, Start Num: 20

Candidate Starts for AlumE_48:

(Start: 17 @36077 has 10 MA's), (Start: 20 @36089 has 16 MA's), (26, 36191), (32, 36278), (42, 36449), (51, 36554), (63, 36650), (75, 36803), (81, 36839), (86, 36899),

Gene: Angelique_48 Start: 37247, Stop: 38128, Start Num: 12

Candidate Starts for Angelique_48:

(5, 37127), (8, 37157), (Start: 12 @37247 has 3 MA's), (14, 37259), (Start: 17 @37292 has 10 MA's), (Start: 20 @37304 has 16 MA's), (26, 37406), (32, 37493), (37, 37580), (41, 37640), (51, 37769), (63, 37865), (68, 37892), (81, 38054), (86, 38114),

Gene: Antonio_48 Start: 35350, Stop: 36186, Start Num: 17

Candidate Starts for Antonio_48:

(Start: 17 @35350 has 10 MA's), (Start: 20 @35362 has 16 MA's), (26, 35464), (32, 35551), (42, 35722), (51, 35827), (63, 35923), (75, 36076), (81, 36112), (86, 36172),

Gene: Attis_43 Start: 32483, Stop: 33319, Start Num: 17

Candidate Starts for Attis_43:

(Start: 17 @32483 has 10 MA's), (Start: 20 @32495 has 16 MA's), (26, 32597), (32, 32684), (42, 32855), (51, 32960), (63, 33056), (75, 33209), (81, 33245), (86, 33305),

Gene: Bialota_46 Start: 35982, Stop: 36818, Start Num: 17

Candidate Starts for Bialota_46:

(Start: 17 @35982 has 10 MA's), (Start: 20 @35994 has 16 MA's), (26, 36096), (32, 36183), (42, 36354), (51, 36459), (63, 36555), (75, 36708), (81, 36744), (86, 36804),

Gene: BoyNamedSue_48 Start: 36089, Stop: 36913, Start Num: 20

Candidate Starts for BoyNamedSue_48:

(Start: 17 @36077 has 10 MA's), (Start: 20 @36089 has 16 MA's), (26, 36191), (32, 36278), (42, 36449), (51, 36554), (63, 36650), (75, 36803), (81, 36839), (86, 36899),

Gene: Bunnybear_41 Start: 33762, Stop: 34586, Start Num: 20

Candidate Starts for Bunnybear_41:

(1, 33405), (2, 33438), (6, 33606), (Start: 20 @33762 has 16 MA's), (26, 33864), (32, 33951), (51, 34227), (63, 34323), (80, 34509), (81, 34512), (86, 34572),

Gene: DumpsterDude_48 Start: 38831, Stop: 39640, Start Num: 19

Candidate Starts for DumpsterDude_48:

(Start: 19 @38831 has 2 MA's), (23, 38861), (26, 38939), (27, 38945), (29, 38960), (36, 39056), (53, 39293), (64, 39395), (73, 39509), (84, 39596),

Gene: EdnaMode_42 Start: 31171, Stop: 32007, Start Num: 17

Candidate Starts for EdnaMode_42:

(Start: 17 @31171 has 10 MA's), (Start: 20 @31183 has 16 MA's), (26, 31285), (32, 31372), (42, 31543), (51, 31648), (63, 31744), (75, 31897), (81, 31933), (86, 31993),

Gene: Enceladus_58 Start: 42233, Stop: 43060, Start Num: 15

Candidate Starts for Enceladus_58:

(Start: 15 @42233 has 1 MA's), (18, 42260), (22, 42287), (24, 42299), (25, 42326), (26, 42371), (30, 42413), (31, 42428), (32, 42458), (33, 42473), (38, 42551), (47, 42656), (50, 42686), (59, 42791), (71, 42914), (77, 42989), (79, 43004),

Gene: Eudoria_48 Start: 35362, Stop: 36186, Start Num: 20

Candidate Starts for Eudoria_48:

(Start: 17 @35350 has 10 MA's), (Start: 20 @35362 has 16 MA's), (26, 35464), (32, 35551), (42, 35722), (51, 35827), (63, 35923), (75, 36076), (81, 36112), (86, 36172),

Gene: Frokostdame_47 Start: 34936, Stop: 35751, Start Num: 20

Candidate Starts for Frokostdame_47:

(11, 34861), (Start: 20 @34936 has 16 MA's), (26, 35032), (31, 35089), (38, 35212), (46, 35323), (50, 35356), (57, 35443), (58, 35458), (81, 35683), (86, 35743),

Gene: JuJu_50 Start: 36277, Stop: 37092, Start Num: 20

Candidate Starts for JuJu_50:

(11, 36202), (Start: 20 @36277 has 16 MA's), (26, 36373), (38, 36553), (46, 36664), (50, 36697), (57, 36784), (81, 37024),

Gene: Kita_49 Start: 35359, Stop: 36195, Start Num: 17

Candidate Starts for Kita_49:

(Start: 17 @35359 has 10 MA's), (Start: 20 @35371 has 16 MA's), (26, 35473), (32, 35560), (42, 35731), (51, 35836), (63, 35932), (75, 36085), (81, 36121), (86, 36181),

Gene: LordFarquaad_45 Start: 32464, Stop: 33300, Start Num: 17

Candidate Starts for LordFarquaad_45:

(Start: 17 @32464 has 10 MA's), (Start: 20 @32476 has 16 MA's), (26, 32578), (32, 32665), (42, 32836), (51, 32941), (63, 33037), (75, 33190), (81, 33226), (86, 33286),

Gene: Lysidious_44 Start: 34244, Stop: 35065, Start Num: 20

Candidate Starts for Lysidious_44:

(Start: 20 @34244 has 16 MA's), (28, 34352), (33, 34442), (38, 34520), (39, 34538), (40, 34547), (48, 34646), (52, 34709), (54, 34730), (57, 34751), (66, 34817), (67, 34826), (80, 34988), (81, 34991),

Gene: Manasvini_49 Start: 35374, Stop: 36210, Start Num: 17

Candidate Starts for Manasvini_49:

(Start: 17 @35374 has 10 MA's), (Start: 20 @35386 has 16 MA's), (26, 35488), (32, 35575), (42, 35746), (51, 35851), (63, 35947), (75, 36100), (81, 36136), (86, 36196),

Gene: Maridalia_49 Start: 35508, Stop: 36332, Start Num: 20

Candidate Starts for Maridalia_49:

(1, 35151), (2, 35184), (6, 35352), (Start: 20 @35508 has 16 MA's), (26, 35610), (32, 35697), (51, 35973), (63, 36069), (80, 36255), (81, 36258), (86, 36318),

Gene: Mask_52 Start: 46012, Stop: 46845, Start Num: 21

Candidate Starts for Mask_52:

(3, 45796), (4, 45826), (9, 45862), (10, 45886), (13, 45952), (Start: 21 @46012 has 2 MA's), (26, 46111), (31, 46168), (34, 46222), (36, 46225), (38, 46291), (44, 46387), (49, 46414), (55, 46519), (59, 46543), (60, 46546), (61, 46564), (62, 46567), (70, 46618), (74, 46705), (78, 46741), (79, 46747), (82, 46762), (87, 46831),

Gene: Neobush_48 Start: 35356, Stop: 36180, Start Num: 20

Candidate Starts for Neobush_48:

(Start: 17 @35344 has 10 MA's), (Start: 20 @35356 has 16 MA's), (26, 35458), (32, 35545), (42, 35716), (51, 35821), (63, 35917), (75, 36070), (81, 36106), (86, 36166),

Gene: Periwinkle_67 Start: 39705, Stop: 40481, Start Num: 21

Candidate Starts for Periwinkle_67:

(16, 39675), (Start: 21 @39705 has 2 MA's), (26, 39804), (32, 39891), (38, 39984), (45, 40083), (79, 40401), (83, 40422), (84, 40437), (85, 40455),

Gene: Pickett_41 Start: 29647, Stop: 30483, Start Num: 17

Candidate Starts for Pickett_41:

(Start: 17 @29647 has 10 MA's), (Start: 20 @29659 has 16 MA's), (26, 29761), (32, 29848), (42, 30019), (51, 30124), (63, 30220), (75, 30373), (81, 30409), (86, 30469),

Gene: Polly_45 Start: 34805, Stop: 35629, Start Num: 20

Candidate Starts for Polly_45:

(Start: 17 @34793 has 10 MA's), (Start: 20 @34805 has 16 MA's), (26, 34907), (32, 34994), (42, 35165), (51, 35270), (63, 35366), (75, 35519), (81, 35555), (86, 35615),

Gene: Ruthy_46 Start: 36193, Stop: 37002, Start Num: 19

Candidate Starts for Ruthy_46:

(Start: 19 @36193 has 2 MA's), (23, 36223), (26, 36301), (27, 36307), (29, 36322), (53, 36655), (64, 36757), (73, 36871), (84, 36958),

Gene: Sidious_48 Start: 36674, Stop: 37510, Start Num: 20

Candidate Starts for Sidious_48:

(Start: 17 @36662 has 10 MA's), (Start: 20 @36674 has 16 MA's), (26, 36776), (32, 36863), (35, 36893), (66, 37268), (80, 37439), (81, 37442),

Gene: SoilAssassin_43 Start: 32482, Stop: 33318, Start Num: 17

Candidate Starts for SoilAssassin_43:

(Start: 17 @32482 has 10 MA's), (Start: 20 @32494 has 16 MA's), (26, 32596), (32, 32683), (42, 32854), (51, 32959), (63, 33055), (75, 33208), (81, 33244), (86, 33304),

Gene: Suscepit_48 Start: 35363, Stop: 36187, Start Num: 20

Candidate Starts for Suscepit_48:

(Start: 17 @35351 has 10 MA's), (Start: 20 @35363 has 16 MA's), (26, 35465), (32, 35552), (42, 35723), (51, 35828), (63, 35924), (75, 36077), (81, 36113), (86, 36173),

Gene: Tayonia_48 Start: 35362, Stop: 36186, Start Num: 20

Candidate Starts for Tayonia_48:

(Start: 17 @35350 has 10 MA's), (Start: 20 @35362 has 16 MA's), (26, 35464), (32, 35551), (42, 35722), (51, 35827), (63, 35923), (75, 36076), (81, 36112), (86, 36172),

Gene: ThankyouJordi_47 Start: 37192, Stop: 38031, Start Num: 12

Candidate Starts for ThankyouJordi_47:

(7, 37096), (Start: 12 @37192 has 3 MA's), (14, 37204), (Start: 17 @37237 has 10 MA's), (Start: 20 @37249 has 16 MA's), (26, 37351), (28, 37360), (34, 37462), (38, 37531), (43, 37624), (56, 37738), (60, 37762), (61, 37780), (64, 37801), (65, 37804), (66, 37807), (69, 37831), (71, 37882), (72, 37885), (76, 37945),

Gene: Trumpet_48 Start: 35363, Stop: 36187, Start Num: 20

Candidate Starts for Trumpet_48:

(Start: 17 @35351 has 10 MA's), (Start: 20 @35363 has 16 MA's), (26, 35465), (32, 35552), (42, 35723), (51, 35828), (63, 35924), (75, 36077), (81, 36113), (86, 36173),

Gene: WelcomeAyanna_47 Start: 37339, Stop: 38178, Start Num: 12

Candidate Starts for WelcomeAyanna_47:

(7, 37243), (Start: 12 @37339 has 3 MA's), (14, 37351), (Start: 17 @37384 has 10 MA's), (Start: 20 @37396 has 16 MA's), (26, 37498), (28, 37507), (34, 37609), (38, 37678), (43, 37771), (56, 37885), (60, 37909), (61, 37927), (64, 37948), (65, 37951), (66, 37954), (69, 37978), (71, 38029), (72, 38032), (76, 38092),

Gene: Yeet412_43 Start: 32483, Stop: 33319, Start Num: 17

Candidate Starts for Yeet412_43:

(Start: 17 @32483 has 10 MA's), (Start: 20 @32495 has 16 MA's), (26, 32597), (32, 32684), (42, 32855), (51, 32960), (63, 33056), (75, 33209), (81, 33245), (86, 33305),

Gene: Zameen_48 Start: 35362, Stop: 36186, Start Num: 20

Candidate Starts for Zameen_48:

(Start: 17 @35350 has 10 MA's), (Start: 20 @35362 has 16 MA's), (26, 35464), (32, 35551), (42, 35722), (51, 35827), (63, 35923), (75, 36076), (81, 36112), (86, 36172),

Gene: Zirinka_45 Start: 35970, Stop: 36806, Start Num: 17

Candidate Starts for Zirinka_45:

(Start: 17 @35970 has 10 MA's), (Start: 20 @35982 has 16 MA's), (26, 36084), (32, 36171), (42, 36342), (51, 36447), (63, 36543), (75, 36696), (81, 36732), (86, 36792),