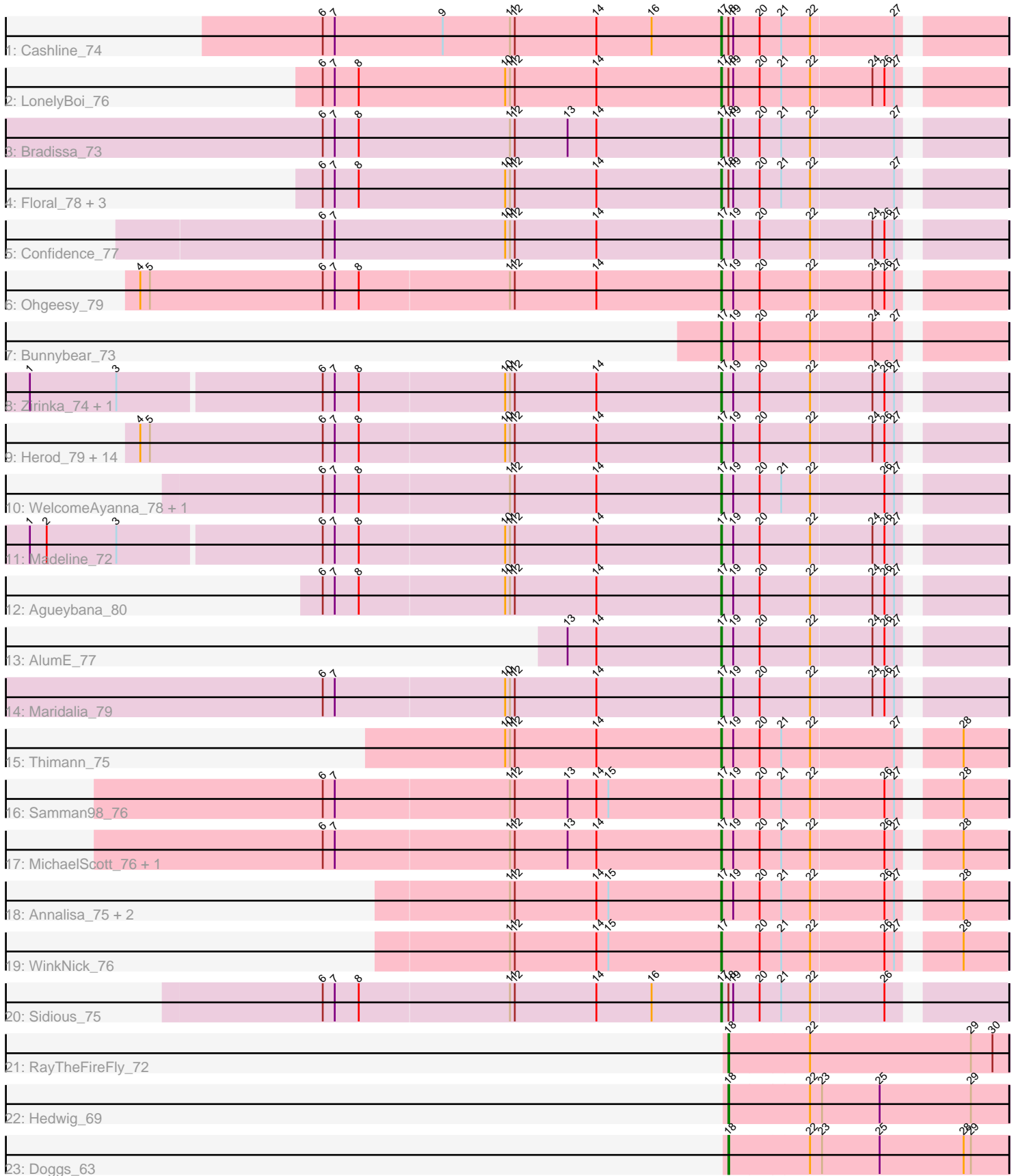


Pham 159253



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 159253 Report

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

Pham number 159253 has 45 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Cashline_74
- Track 2 : LonelyBoi_76
- Track 3 : Bradissa_73
- Track 4 : Floral_78, EnalisNailo_73, Lilas_74, EMSquaredA_77
- Track 5 : Confidence_77
- Track 6 : Ohgeesy_79
- Track 7 : Bunnybear_73
- Track 8 : Zirinka_74, Bialota_74
- Track 9 : Herod_79, Neobush_77, Bosnia_77, Eviarto_79, Trumpet_75, BatStarr_78, Zameen_75, Manasvini_77, Kita_76, Polly_72, Suscepit_75, TimTam_79, Eudoria_75, Antonio_74, Tayonia_75
- Track 10 : WelcomeAyanna_78, ThankyouJordi_78
- Track 11 : Madeline_72
- Track 12 : Agueybana_80
- Track 13 : AlumE_77
- Track 14 : Maridalia_79
- Track 15 : Thimann_75
- Track 16 : Samman98_76
- Track 17 : MichaelScott_76, Clark_74
- Track 18 : Annalisa_75, Dolores_76, Sekhmet_75
- Track 19 : WinkNick_76
- Track 20 : Sidious_75
- Track 21 : RayTheFireFly_72
- Track 22 : Hedwig_69
- Track 23 : Doggs_63

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

The start number called the most often in the published annotations is 17, it was called in 41 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agueybana_80, AlumE_77, Annalisa_75, Antonio_74, BatStarr_78, Bialota_74, Bosnia_77, Bradissa_73, Bunnybear_73, Cashline_74, Clark_74, Confidence_77,

Dolores_76, EMSquaredA_77, EnalisNailo_73, Eudoria_75, Eviarto_79, Floral_78, Herod_79, Kita_76, Lilas_74, LonelyBoi_76, Madeline_72, Manasvini_77, Maridalia_79, MichaelScott_76, Neobush_77, Ohgeesy_79, Polly_72, Samman98_76, Sekhmet_75, Sidious_75, Suscepit_75, Tayonia_75, ThankyouJordi_78, Thimann_75, TimTam_79, Trumpet_75, WelcomeAyanna_78, WinkNick_76, Zameen_75, Zirinka_74,

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

-

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

- Doggs_63, Hedwig_69, RayTheFireFly_72,

Summary by start number:

Start 17:

- Found in 42 of 45 (93.3%) of genes in pham
- Manual Annotations of this start: 41 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agueybana_80 (CZ1), AlumE_77 (CZ1), Annalisa_75 (CZ4), Antonio_74 (CZ1), BatStarr_78 (CZ1), Bialota_74 (CZ1), Bosnia_77 (CZ1), Bradissa_73 (CY1), Bunnybear_73 (CZ), Cashline_74 (CY), Clark_74 (CZ4), Confidence_77 (CY1), Dolores_76 (CZ4), EMSquaredA_77 (CY1), EnalisNailo_73 (CY1), Eudoria_75 (CZ1), Eviarto_79 (CZ1), Floral_78 (CY1), Herod_79 (CZ1), Kita_76 (CZ1), Lilas_74 (CY1), LonelyBoi_76 (CY), Madeline_72 (CZ1), Manasvini_77 (CZ1), Maridalia_79 (CZ1), MichaelScott_76 (CZ4), Neobush_77 (CZ1), Ohgeesy_79 (CZ), Polly_72 (CZ1), Samman98_76 (CZ4), Sekhmet_75 (CZ4), Sidious_75 (CZ7), Suscepit_75 (CZ1), Tayonia_75 (CZ1), ThankyouJordi_78 (CZ1), Thimann_75 (CZ4), TimTam_79 (CZ1), Trumpet_75 (CZ1), WelcomeAyanna_78 (CZ1), WinkNick_76 (CZ4), Zameen_75 (CZ1), Zirinka_74 (CZ1),

Start 18:

- Found in 11 of 45 (24.4%) of genes in pham
- Manual Annotations of this start: 3 of 44
- Called 27.3% of time when present
- Phage (with cluster) where this start called: Doggs_63 (DB), Hedwig_69 (DB), RayTheFireFly_72 (DB),

Summary by clusters:

There are 7 clusters represented in this pham: CY1, CZ1, DB, CZ7, CZ4, CZ, CY,

Info for manual annotations of cluster CY:

- Start number 17 was manually annotated 2 times for cluster CY.

Info for manual annotations of cluster CY1:

- Start number 17 was manually annotated 6 times for cluster CY1.

Info for manual annotations of cluster CZ:

- Start number 17 was manually annotated 2 times for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 17 was manually annotated 23 times for cluster CZ1.

Info for manual annotations of cluster CZ4:

- Start number 17 was manually annotated 7 times for cluster CZ4.

Info for manual annotations of cluster CZ7:

- Start number 17 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DB:

- Start number 18 was manually annotated 3 times for cluster DB.

Gene Information:

Gene: Agueybana_80 Start: 50971, Stop: 51297, Start Num: 17

Candidate Starts for Agueybana_80:

(6, 50476), (7, 50491), (8, 50521), (10, 50701), (11, 50707), (12, 50713), (14, 50815), (Start: 17 @50971 has 41 MA's), (19, 50986), (20, 51019), (22, 51082), (24, 51157), (26, 51172), (27, 51184),

Gene: AlumE_77 Start: 50854, Stop: 51180, Start Num: 17

Candidate Starts for AlumE_77:

(13, 50662), (14, 50698), (Start: 17 @50854 has 41 MA's), (19, 50869), (20, 50902), (22, 50965), (24, 51040), (26, 51055), (27, 51067),

Gene: Annalisa_75 Start: 45668, Stop: 45994, Start Num: 17

Candidate Starts for Annalisa_75:

(11, 45404), (12, 45410), (14, 45512), (15, 45527), (Start: 17 @45668 has 41 MA's), (19, 45683), (20, 45716), (21, 45743), (22, 45779), (26, 45869), (27, 45881), (28, 45941),

Gene: Antonio_74 Start: 48617, Stop: 48943, Start Num: 17

Candidate Starts for Antonio_74:

(4, 47894), (5, 47906), (6, 48122), (7, 48137), (8, 48167), (10, 48347), (11, 48353), (12, 48359), (14, 48461), (Start: 17 @48617 has 41 MA's), (19, 48632), (20, 48665), (22, 48728), (24, 48803), (26, 48818), (27, 48830),

Gene: BatStarr_78 Start: 51585, Stop: 51911, Start Num: 17

Candidate Starts for BatStarr_78:

(4, 50862), (5, 50874), (6, 51090), (7, 51105), (8, 51135), (10, 51315), (11, 51321), (12, 51327), (14, 51429), (Start: 17 @51585 has 41 MA's), (19, 51600), (20, 51633), (22, 51696), (24, 51771), (26, 51786), (27, 51798),

Gene: Bialota_74 Start: 50305, Stop: 50631, Start Num: 17

Candidate Starts for Bialota_74:

(1, 49453), (3, 49561), (6, 49810), (7, 49825), (8, 49855), (10, 50035), (11, 50041), (12, 50047), (14, 50149), (Start: 17 @50305 has 41 MA's), (19, 50320), (20, 50353), (22, 50416), (24, 50491), (26, 50506), (27, 50518),

Gene: Bosnia_77 Start: 52699, Stop: 53025, Start Num: 17

Candidate Starts for Bosnia_77:

(4, 51976), (5, 51988), (6, 52204), (7, 52219), (8, 52249), (10, 52429), (11, 52435), (12, 52441), (14, 52543), (Start: 17 @52699 has 41 MA's), (19, 52714), (20, 52747), (22, 52810), (24, 52885), (26, 52900), (27, 52912),

Gene: Bradissa_73 Start: 50654, Stop: 50980, Start Num: 17

Candidate Starts for Bradissa_73:

(6, 50156), (7, 50171), (8, 50201), (11, 50390), (12, 50396), (13, 50462), (14, 50498), (Start: 17 @50654 has 41 MA's), (Start: 18 @50663 has 3 MA's), (19, 50669), (20, 50702), (21, 50729), (22, 50765), (27, 50867),

Gene: Bunnybear_73 Start: 49577, Stop: 49903, Start Num: 17

Candidate Starts for Bunnybear_73:

(Start: 17 @49577 has 41 MA's), (19, 49592), (20, 49625), (22, 49688), (24, 49763), (27, 49790),

Gene: Cashline_74 Start: 51349, Stop: 51675, Start Num: 17

Candidate Starts for Cashline_74:

(6, 50851), (7, 50866), (9, 51001), (11, 51085), (12, 51091), (14, 51193), (16, 51262), (Start: 17 @51349 has 41 MA's), (Start: 18 @51358 has 3 MA's), (19, 51364), (20, 51397), (21, 51424), (22, 51460), (27, 51562),

Gene: Clark_74 Start: 45978, Stop: 46304, Start Num: 17

Candidate Starts for Clark_74:

(6, 45483), (7, 45498), (11, 45714), (12, 45720), (13, 45786), (14, 45822), (Start: 17 @45978 has 41 MA's), (19, 45993), (20, 46026), (21, 46053), (22, 46089), (26, 46179), (27, 46191), (28, 46251),

Gene: Confidence_77 Start: 49429, Stop: 49755, Start Num: 17

Candidate Starts for Confidence_77:

(6, 48931), (7, 48946), (10, 49159), (11, 49165), (12, 49171), (14, 49273), (Start: 17 @49429 has 41 MA's), (19, 49444), (20, 49477), (22, 49540), (24, 49615), (26, 49630), (27, 49642),

Gene: Doggs_63 Start: 44639, Stop: 44986, Start Num: 18

Candidate Starts for Doggs_63:

(Start: 18 @44639 has 3 MA's), (22, 44738), (23, 44753), (25, 44825), (28, 44930), (29, 44939),

Gene: Dolores_76 Start: 45721, Stop: 46047, Start Num: 17

Candidate Starts for Dolores_76:

(11, 45457), (12, 45463), (14, 45565), (15, 45580), (Start: 17 @45721 has 41 MA's), (19, 45736), (20, 45769), (21, 45796), (22, 45832), (26, 45922), (27, 45934), (28, 45994),

Gene: EMSquaredA_77 Start: 49446, Stop: 49772, Start Num: 17

Candidate Starts for EMSquaredA_77:

(6, 48948), (7, 48963), (8, 48993), (10, 49176), (11, 49182), (12, 49188), (14, 49290), (Start: 17 @49446 has 41 MA's), (Start: 18 @49455 has 3 MA's), (19, 49461), (20, 49494), (21, 49521), (22, 49557), (27, 49659),

Gene: EnalisNailo_73 Start: 49938, Stop: 50264, Start Num: 17

Candidate Starts for EnalisNailo_73:

(6, 49440), (7, 49455), (8, 49485), (10, 49668), (11, 49674), (12, 49680), (14, 49782), (Start: 17 @49938 has 41 MA's), (Start: 18 @49947 has 3 MA's), (19, 49953), (20, 49986), (21, 50013), (22, 50049), (27, 50151),

Gene: Eudoria_75 Start: 48617, Stop: 48943, Start Num: 17

Candidate Starts for Eudoria_75:

(4, 47894), (5, 47906), (6, 48122), (7, 48137), (8, 48167), (10, 48347), (11, 48353), (12, 48359), (14, 48461), (Start: 17 @48617 has 41 MA's), (19, 48632), (20, 48665), (22, 48728), (24, 48803), (26, 48818), (27, 48830),

Gene: Eviarto_79 Start: 51560, Stop: 51886, Start Num: 17

Candidate Starts for Eviarto_79:

(4, 50837), (5, 50849), (6, 51065), (7, 51080), (8, 51110), (10, 51290), (11, 51296), (12, 51302), (14, 51404), (Start: 17 @51560 has 41 MA's), (19, 51575), (20, 51608), (22, 51671), (24, 51746), (26, 51761), (27, 51773),

Gene: Floral_78 Start: 51403, Stop: 51729, Start Num: 17

Candidate Starts for Floral_78:

(6, 50905), (7, 50920), (8, 50950), (10, 51133), (11, 51139), (12, 51145), (14, 51247), (Start: 17 @51403 has 41 MA's), (Start: 18 @51412 has 3 MA's), (19, 51418), (20, 51451), (21, 51478), (22, 51514), (27, 51616),

Gene: Hedwig_69 Start: 43790, Stop: 44137, Start Num: 18

Candidate Starts for Hedwig_69:

(Start: 18 @43790 has 3 MA's), (22, 43889), (23, 43904), (25, 43976), (29, 44090),

Gene: Herod_79 Start: 51979, Stop: 52305, Start Num: 17

Candidate Starts for Herod_79:

(4, 51256), (5, 51268), (6, 51484), (7, 51499), (8, 51529), (10, 51709), (11, 51715), (12, 51721), (14, 51823), (Start: 17 @51979 has 41 MA's), (19, 51994), (20, 52027), (22, 52090), (24, 52165), (26, 52180), (27, 52192),

Gene: Kita_76 Start: 48626, Stop: 48952, Start Num: 17

Candidate Starts for Kita_76:

(4, 47903), (5, 47915), (6, 48131), (7, 48146), (8, 48176), (10, 48356), (11, 48362), (12, 48368), (14, 48470), (Start: 17 @48626 has 41 MA's), (19, 48641), (20, 48674), (22, 48737), (24, 48812), (26, 48827), (27, 48839),

Gene: Lilas_74 Start: 51476, Stop: 51802, Start Num: 17

Candidate Starts for Lilas_74:

(6, 50978), (7, 50993), (8, 51023), (10, 51206), (11, 51212), (12, 51218), (14, 51320), (Start: 17 @51476 has 41 MA's), (Start: 18 @51485 has 3 MA's), (19, 51491), (20, 51524), (21, 51551), (22, 51587), (27, 51689),

Gene: LonelyBoi_76 Start: 52576, Stop: 52902, Start Num: 17

Candidate Starts for LonelyBoi_76:

(6, 52078), (7, 52093), (8, 52123), (10, 52306), (11, 52312), (12, 52318), (14, 52420), (Start: 17 @52576 has 41 MA's), (Start: 18 @52585 has 3 MA's), (19, 52591), (20, 52624), (21, 52651), (22, 52687), (24, 52762), (26, 52777), (27, 52789),

Gene: Madeline_72 Start: 49948, Stop: 50274, Start Num: 17

Candidate Starts for Madeline_72:

(1, 49096), (2, 49117), (3, 49204), (6, 49453), (7, 49468), (8, 49498), (10, 49678), (11, 49684), (12, 49690), (14, 49792), (Start: 17 @49948 has 41 MA's), (19, 49963), (20, 49996), (22, 50059), (24, 50134), (26, 50149), (27, 50161),

Gene: Manasvini_77 Start: 48641, Stop: 48967, Start Num: 17

Candidate Starts for Manasvini_77:

(4, 47918), (5, 47930), (6, 48146), (7, 48161), (8, 48191), (10, 48371), (11, 48377), (12, 48383), (14, 48485), (Start: 17 @48641 has 41 MA's), (19, 48656), (20, 48689), (22, 48752), (24, 48827), (26, 48842), (27, 48854),

Gene: Maridalia_79 Start: 49903, Stop: 50229, Start Num: 17

Candidate Starts for Maridalia_79:

(6, 49408), (7, 49423), (10, 49633), (11, 49639), (12, 49645), (14, 49747), (Start: 17 @49903 has 41 MA's), (19, 49918), (20, 49951), (22, 50014), (24, 50089), (26, 50104), (27, 50116),

Gene: MichaelScott_76 Start: 46659, Stop: 46985, Start Num: 17

Candidate Starts for MichaelScott_76:

(6, 46164), (7, 46179), (11, 46395), (12, 46401), (13, 46467), (14, 46503), (Start: 17 @46659 has 41 MA's), (19, 46674), (20, 46707), (21, 46734), (22, 46770), (26, 46860), (27, 46872), (28, 46932),

Gene: Neobush_77 Start: 49185, Stop: 49511, Start Num: 17

Candidate Starts for Neobush_77:

(4, 48462), (5, 48474), (6, 48690), (7, 48705), (8, 48735), (10, 48915), (11, 48921), (12, 48927), (14, 49029), (Start: 17 @49185 has 41 MA's), (19, 49200), (20, 49233), (22, 49296), (24, 49371), (26, 49386), (27, 49398),

Gene: Ohgeesy_79 Start: 51126, Stop: 51452, Start Num: 17

Candidate Starts for Ohgeesy_79:

(4, 50403), (5, 50415), (6, 50631), (7, 50646), (8, 50676), (11, 50862), (12, 50868), (14, 50970), (Start: 17 @51126 has 41 MA's), (19, 51141), (20, 51174), (22, 51237), (24, 51312), (26, 51327), (27, 51339),

Gene: Polly_72 Start: 48060, Stop: 48386, Start Num: 17

Candidate Starts for Polly_72:

(4, 47337), (5, 47349), (6, 47565), (7, 47580), (8, 47610), (10, 47790), (11, 47796), (12, 47802), (14, 47904), (Start: 17 @48060 has 41 MA's), (19, 48075), (20, 48108), (22, 48171), (24, 48246), (26, 48261), (27, 48273),

Gene: RayTheFireFly_72 Start: 45008, Stop: 45355, Start Num: 18

Candidate Starts for RayTheFireFly_72:

(Start: 18 @45008 has 3 MA's), (22, 45107), (29, 45308), (30, 45335),

Gene: Samman98_76 Start: 46081, Stop: 46407, Start Num: 17

Candidate Starts for Samman98_76:

(6, 45586), (7, 45601), (11, 45817), (12, 45823), (13, 45889), (14, 45925), (15, 45940), (Start: 17 @46081 has 41 MA's), (19, 46096), (20, 46129), (21, 46156), (22, 46192), (26, 46282), (27, 46294), (28, 46354),

Gene: Sekhmet_75 Start: 46120, Stop: 46446, Start Num: 17

Candidate Starts for Sekhmet_75:

(11, 45856), (12, 45862), (14, 45964), (15, 45979), (Start: 17 @46120 has 41 MA's), (19, 46135), (20, 46168), (21, 46195), (22, 46231), (26, 46321), (27, 46333), (28, 46393),

Gene: Sidious_75 Start: 50002, Stop: 50328, Start Num: 17

Candidate Starts for Sidious_75:

(6, 49507), (7, 49522), (8, 49552), (11, 49738), (12, 49744), (14, 49846), (16, 49915), (Start: 17 @50002 has 41 MA's), (Start: 18 @50011 has 3 MA's), (19, 50017), (20, 50050), (21, 50077), (22, 50113), (26, 50203),

Gene: Suscepit_75 Start: 48618, Stop: 48944, Start Num: 17

Candidate Starts for Suscepit_75:

(4, 47895), (5, 47907), (6, 48123), (7, 48138), (8, 48168), (10, 48348), (11, 48354), (12, 48360), (14, 48462), (Start: 17 @48618 has 41 MA's), (19, 48633), (20, 48666), (22, 48729), (24, 48804), (26, 48819), (27, 48831),

Gene: Tayonia_75 Start: 48617, Stop: 48943, Start Num: 17

Candidate Starts for Tayonia_75:

(4, 47894), (5, 47906), (6, 48122), (7, 48137), (8, 48167), (10, 48347), (11, 48353), (12, 48359), (14, 48461), (Start: 17 @48617 has 41 MA's), (19, 48632), (20, 48665), (22, 48728), (24, 48803), (26, 48818), (27, 48830),

Gene: ThankyouJordi_78 Start: 51789, Stop: 52115, Start Num: 17

Candidate Starts for ThankyouJordi_78:

(6, 51294), (7, 51309), (8, 51339), (11, 51525), (12, 51531), (14, 51633), (Start: 17 @51789 has 41 MA's), (19, 51804), (20, 51837), (21, 51864), (22, 51900), (26, 51990), (27, 52002),

Gene: Thimann_75 Start: 46120, Stop: 46446, Start Num: 17

Candidate Starts for Thimann_75:

(10, 45850), (11, 45856), (12, 45862), (14, 45964), (Start: 17 @46120 has 41 MA's), (19, 46135), (20, 46168), (21, 46195), (22, 46231), (27, 46333), (28, 46393),

Gene: TimTam_79 Start: 51584, Stop: 51910, Start Num: 17

Candidate Starts for TimTam_79:

(4, 50861), (5, 50873), (6, 51089), (7, 51104), (8, 51134), (10, 51314), (11, 51320), (12, 51326), (14, 51428), (Start: 17 @51584 has 41 MA's), (19, 51599), (20, 51632), (22, 51695), (24, 51770), (26, 51785), (27, 51797),

Gene: Trumpet_75 Start: 48618, Stop: 48944, Start Num: 17

Candidate Starts for Trumpet_75:

(4, 47895), (5, 47907), (6, 48123), (7, 48138), (8, 48168), (10, 48348), (11, 48354), (12, 48360), (14, 48462), (Start: 17 @48618 has 41 MA's), (19, 48633), (20, 48666), (22, 48729), (24, 48804), (26, 48819), (27, 48831),

Gene: WelcomeAyanna_78 Start: 51936, Stop: 52262, Start Num: 17

Candidate Starts for WelcomeAyanna_78:

(6, 51441), (7, 51456), (8, 51486), (11, 51672), (12, 51678), (14, 51780), (Start: 17 @51936 has 41 MA's), (19, 51951), (20, 51984), (21, 52011), (22, 52047), (26, 52137), (27, 52149),

Gene: WinkNick_76 Start: 45644, Stop: 45970, Start Num: 17

Candidate Starts for WinkNick_76:

(11, 45380), (12, 45386), (14, 45488), (15, 45503), (Start: 17 @45644 has 41 MA's), (20, 45692), (21, 45719), (22, 45755), (26, 45845), (27, 45857), (28, 45917),

Gene: Zameen_75 Start: 48617, Stop: 48943, Start Num: 17

Candidate Starts for Zameen_75:

(4, 47894), (5, 47906), (6, 48122), (7, 48137), (8, 48167), (10, 48347), (11, 48353), (12, 48359), (14, 48461), (Start: 17 @48617 has 41 MA's), (19, 48632), (20, 48665), (22, 48728), (24, 48803), (26, 48818), (27, 48830),

Gene: Zirinka_74 Start: 50293, Stop: 50619, Start Num: 17

Candidate Starts for Zirinka_74:

(1, 49441), (3, 49549), (6, 49798), (7, 49813), (8, 49843), (10, 50023), (11, 50029), (12, 50035), (14, 50137), (Start: 17 @50293 has 41 MA's), (19, 50308), (20, 50341), (22, 50404), (24, 50479), (26, 50494), (27, 50506),