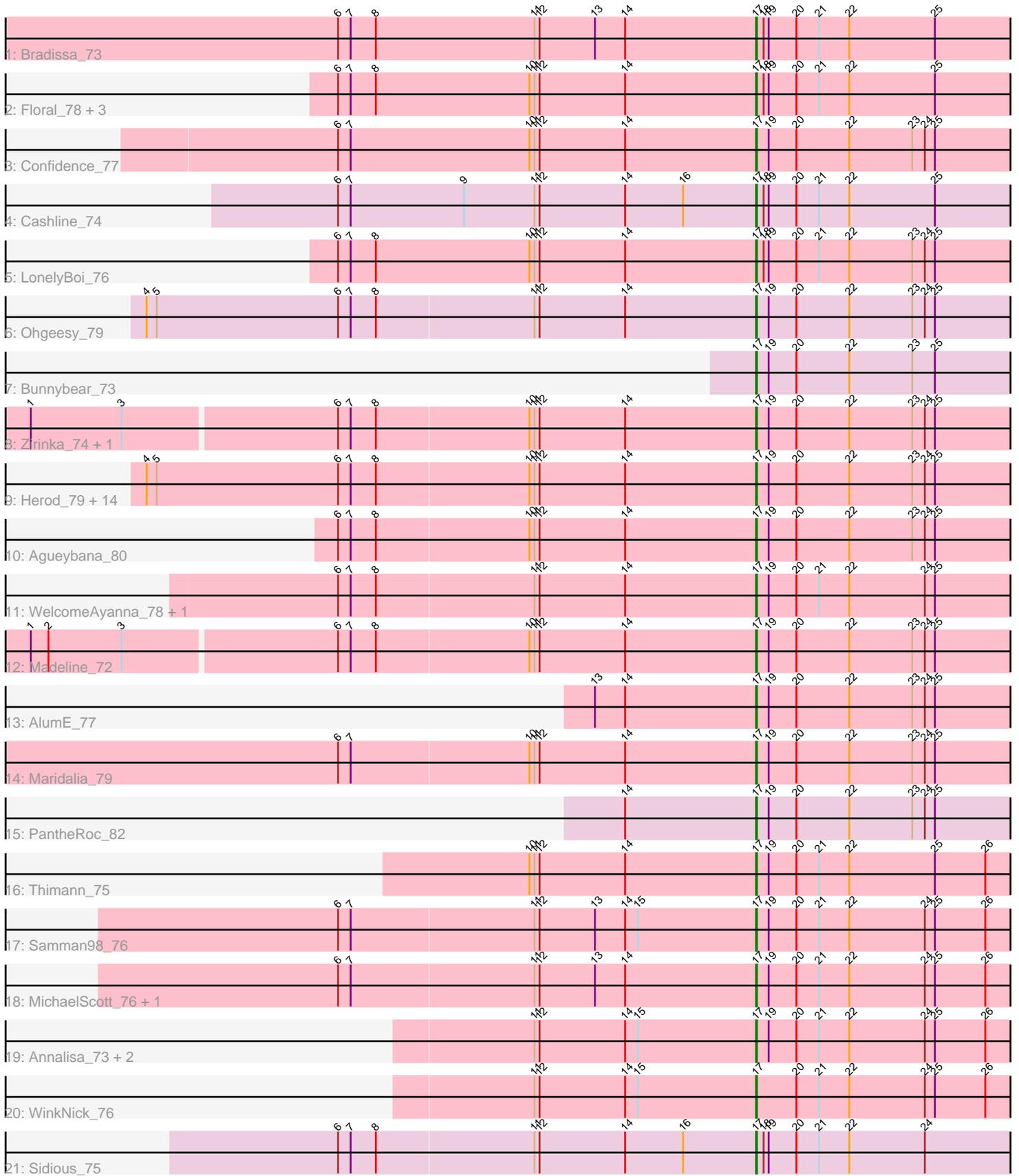


Pham 287034



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 287034 Report

This analysis was run 03/28/26 on database version 641.

Pham number 287034 has 43 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Bradissa_73
- Track 2 : Floral_78, EnalisNailo_73, Lilas_74, EMSquaredA_77
- Track 3 : Confidence_77
- Track 4 : Cashline_74
- Track 5 : LonelyBoi_76
- 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 : Agueybana_80
- Track 11 : WelcomeAyanna_78, ThankyouJordi_78
- Track 12 : Madeline_72
- Track 13 : AlumE_77
- Track 14 : Maridalia_79
- Track 15 : PantheRoc_82
- Track 16 : Thimann_75
- Track 17 : Samman98_76
- Track 18 : MichaelScott_76, Clark_74
- Track 19 : Annalisa_73, Dolores_76, Sekhmet_75
- Track 20 : WinkNick_76
- Track 21 : Sidious_75

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 43 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agueybana_80, AlumE_77, Annalisa_73, 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, PantheRoc_82, 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:

-

Summary by start number:

Start 17:

- Found in 43 of 43 (100.0%) of genes in pham
- Manual Annotations of this start: 43 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agueybana_80 (CZ1), AlumE_77 (CZ1), Annalisa_73 (CZ4), Antonio_74 (CZ1), BatStarr_78 (CZ1), Bialota_74 (CZ1), Bosnia_77 (CZ1), Bradissa_73 (CY1), Bunnybear_73 (CZ), Cashline_74 (CY6), 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 (CY7), Madeline_72 (CZ1), Manasvini_77 (CZ1), Maridalia_79 (CZ1), MichaelScott_76 (CZ4), Neobush_77 (CZ1), Ohgeesy_79 (CZ), PantheRoc_82 (CZ3), 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),

Summary by clusters:

There are 8 clusters represented in this pham: CY1, CY7, CY6, CZ3, CZ1, CZ7, CZ4, CZ,

Info for manual annotations of cluster CY1:

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

Info for manual annotations of cluster CY6:

- Start number 17 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:

- Start number 17 was manually annotated 1 time for cluster CY7.

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 CZ3:

- Start number 17 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:

•Start number 17 was manually annotated 8 times for cluster CZ4.

Info for manual annotations of cluster CZ7:

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

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 43 MA's), (19, 50986), (20, 51019), (22, 51082), (23, 51157), (24, 51172), (25, 51184),

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

Candidate Starts for AlumE_77:

(13, 50662), (14, 50698), (Start: 17 @50854 has 43 MA's), (19, 50869), (20, 50902), (22, 50965), (23, 51040), (24, 51055), (25, 51067),

Gene: Annalisa_73 Start: 45668, Stop: 45994, Start Num: 17

Candidate Starts for Annalisa_73:

(11, 45404), (12, 45410), (14, 45512), (15, 45527), (Start: 17 @45668 has 43 MA's), (19, 45683), (20, 45716), (21, 45743), (22, 45779), (24, 45869), (25, 45881), (26, 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 43 MA's), (19, 48632), (20, 48665), (22, 48728), (23, 48803), (24, 48818), (25, 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 43 MA's), (19, 51600), (20, 51633), (22, 51696), (23, 51771), (24, 51786), (25, 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 43 MA's), (19, 50320), (20, 50353), (22, 50416), (23, 50491), (24, 50506), (25, 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 43 MA's), (19, 52714), (20, 52747), (22, 52810), (23, 52885), (24, 52900), (25, 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 43 MA's), (18, 50663), (19, 50669), (20, 50702), (21, 50729), (22, 50765), (25, 50867),

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

Candidate Starts for Bunnybear_73:

(Start: 17 @49577 has 43 MA's), (19, 49592), (20, 49625), (22, 49688), (23, 49763), (25, 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 43 MA's), (18, 51358), (19, 51364), (20, 51397), (21, 51424), (22, 51460), (25, 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 43 MA's), (19, 45993), (20, 46026), (21, 46053), (22, 46089), (24, 46179), (25, 46191), (26, 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 43 MA's), (19, 49444), (20, 49477), (22, 49540), (23, 49615), (24, 49630), (25, 49642),

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 43 MA's), (19, 45736), (20, 45769), (21, 45796), (22, 45832), (24, 45922), (25, 45934), (26, 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 43 MA's), (18, 49455), (19, 49461), (20, 49494), (21, 49521), (22, 49557), (25, 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 43 MA's), (18, 49947), (19, 49953), (20, 49986), (21, 50013), (22, 50049), (25, 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 43 MA's), (19, 48632), (20, 48665), (22, 48728), (23, 48803), (24, 48818), (25, 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 43 MA's), (19, 51575), (20, 51608), (22, 51671), (23, 51746), (24, 51761), (25, 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 43 MA's), (18, 51412), (19, 51418), (20, 51451), (21, 51478), (22, 51514), (25, 51616),

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 43 MA's), (19, 51994), (20, 52027), (22, 52090), (23, 52165), (24, 52180), (25, 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 43 MA's), (19, 48641), (20, 48674), (22, 48737), (23, 48812), (24, 48827), (25, 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 43 MA's), (18, 51485), (19, 51491), (20, 51524), (21, 51551), (22, 51587), (25, 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 43 MA's), (18, 52585), (19, 52591), (20, 52624), (21, 52651), (22, 52687), (23, 52762), (24, 52777), (25, 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 43 MA's), (19, 49963), (20, 49996), (22, 50059), (23, 50134), (24, 50149), (25, 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 43 MA's), (19, 48656), (20, 48689), (22, 48752), (23, 48827), (24, 48842), (25, 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 43 MA's), (19, 49918), (20, 49951), (22, 50014), (23, 50089), (24, 50104), (25, 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 43 MA's), (19, 46674), (20, 46707), (21, 46734), (22, 46770), (24, 46860), (25, 46872), (26, 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 43 MA's), (19, 49200), (20, 49233), (22, 49296), (23, 49371), (24, 49386), (25, 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 43 MA's), (19, 51141), (20, 51174), (22, 51237), (23, 51312), (24, 51327), (25, 51339),

Gene: PantheRoc_82 Start: 51319, Stop: 51645, Start Num: 17

Candidate Starts for PantheRoc_82:

(14, 51163), (Start: 17 @51319 has 43 MA's), (19, 51334), (20, 51367), (22, 51430), (23, 51505), (24, 51520), (25, 51532),

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 43 MA's), (19, 48075), (20, 48108), (22, 48171), (23, 48246), (24, 48261), (25, 48273),

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 43 MA's), (19, 46096), (20, 46129), (21, 46156), (22, 46192), (24, 46282), (25, 46294), (26, 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 43 MA's), (19, 46135), (20, 46168), (21, 46195), (22, 46231), (24, 46321), (25, 46333), (26, 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 43 MA's), (18, 50011), (19, 50017), (20, 50050), (21, 50077), (22, 50113), (24, 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 43 MA's), (19, 48633), (20, 48666), (22, 48729), (23, 48804), (24, 48819), (25, 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 43 MA's), (19, 48632), (20, 48665), (22, 48728), (23, 48803), (24, 48818), (25, 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 43 MA's), (19, 51804), (20, 51837), (21, 51864), (22, 51900), (24, 51990), (25, 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 43 MA's), (19, 46135), (20, 46168), (21, 46195), (22, 46231), (25, 46333), (26, 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 43 MA's), (19, 51599), (20, 51632), (22, 51695), (23, 51770), (24, 51785), (25, 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 43 MA's), (19, 48633), (20, 48666), (22, 48729), (23, 48804), (24, 48819), (25, 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 43 MA's), (19, 51951), (20, 51984), (21, 52011), (22, 52047), (24, 52137), (25, 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 43 MA's), (20, 45692), (21, 45719), (22, 45755), (24, 45845), (25, 45857), (26, 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 43 MA's), (19, 48632), (20, 48665), (22, 48728), (23, 48803), (24, 48818), (25, 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 43 MA's), (19, 50308), (20, 50341), (22, 50404), (23, 50479), (24, 50494), (25, 50506),