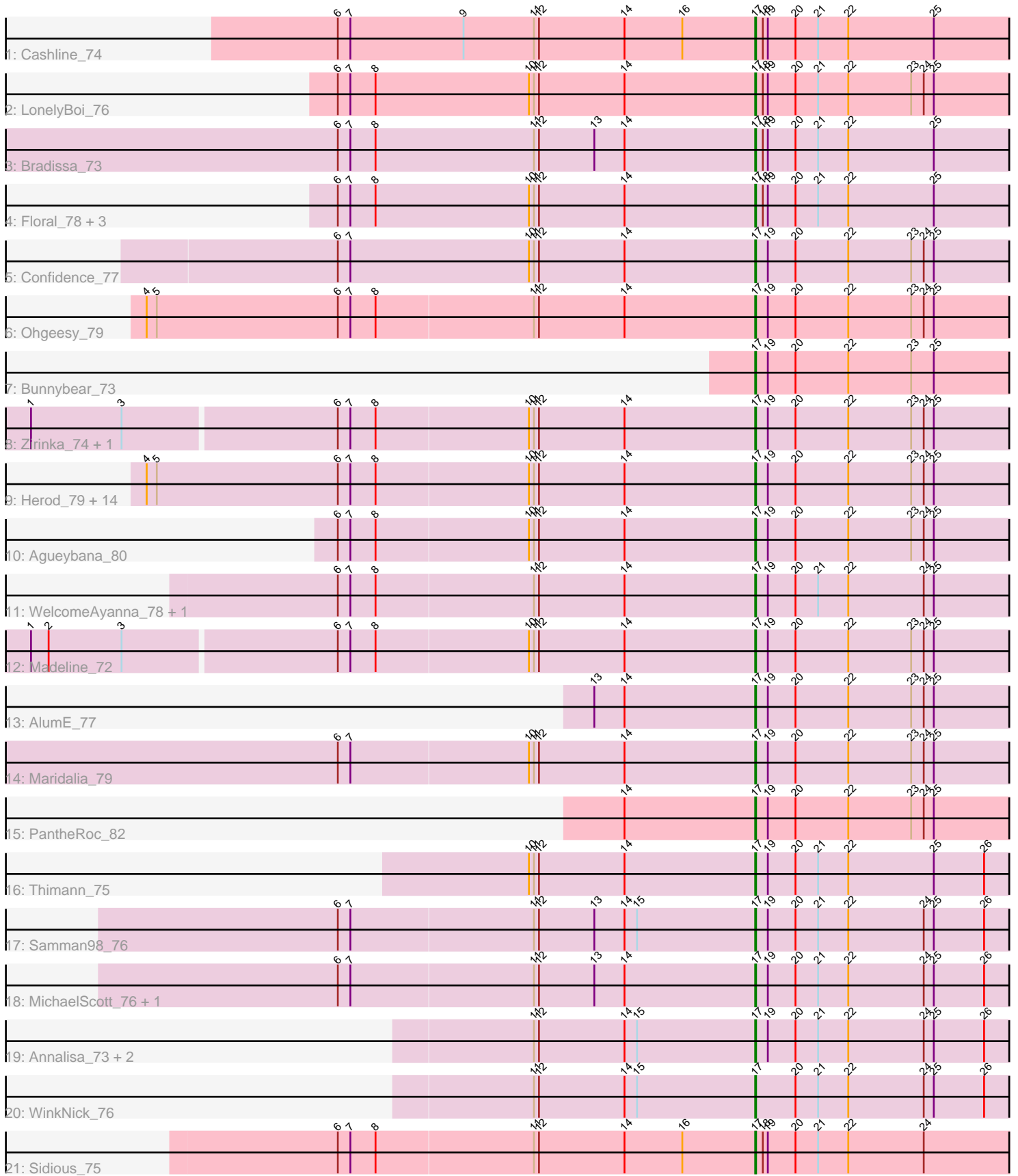


# Pham 216302



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 216302 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216302 has 43 members, 0 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 : 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 (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), 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 7 clusters represented in this pham: CY1, CZ3, CZ1, 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 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),